



A macroeconomic uncertainty index for Greece and Europe based on Google Trends

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Abstract

The aim of this paper is the creation of a macroeconomic uncertainty index for the European Union countries based on Google Trends, for fifteen years, from January 2008 to December 2022. Monthly data were collected for the 27 countries for four different word-terms, as well as for unemployment rate, inflation and the 10-year Government Bond yield. For the simplicity of the research the investigated keywords were in English and not translated in each country's language. Our findings were then compared to existing uncertainty indices. Lastly, each country's uncertainty index was Impulse Response Functioned (IRF) with the forementioned economic indicators, showing what effect a one standard deviation shock on the uncertainty index has on all three indicators and its ability to accurately depict the future precariousness of the country.

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Introduction

Epistemic scenarios with incomplete or ambiguous knowledge are referred to as uncertain. This applies to physical measurements that have previously been performed, to the unknown, and to projections of future events. In partially observable or stochastic circumstances, as well as from ignorance, complacency, or both, uncertainty can develop and it can appear in a wide variety of fields. Several events in the recent years have attracted the economists' attention to the economic uncertainty worldwide, including the global financial crisis in 2008, the pandemic crisis of COVID19 that lasted two years, from 2019 to 2021, as well as the Russia's invasion to Ukraine, leading to war between the two countries. Alongside with fluctuations in uncertainty comes often extreme volatility in a variety of economic indicators, such as unemployment rate, inflation, GDP, long-term government bond yields, uncertainty indices and many more.

The purpose of this study is to examine whether the creation of a macroeconomic uncertainty index for the European Union countries based on Google Trends, can be accurate and reliable in depicting the uncertainty levels existing in a community in periods of precariousness. Google Trends is a website that tracks the most popular Google Search terms across various geographies and languages. The time horizon for our research is fifteen years, from January 2008 until December 2022.

The construction of our Uncertainty Index was achieved with the use of Google Trends. With four words as benchmark, we were able to find monthly data for all 27 EU countries. The uncertainty index for each country was created, which then helped in the construction of the Aggregated Uncertainty Index for both the European Union (27 countries) and the Eurozone (19 countries). Our uncertainty index was also compared to the existing Economic Policy Uncertainty index (Baker, Bloom & Davis, 2016) and the Consumer Confidence Index to check for its validity. With the use of the econometric program STATA, we were able of conducting Vector Autoregressive (VAR) models for every country and later on Impulse Response Function (IRF) graphs, where the effect of one standard deviation shock on the uncertainty of the country has on the economic indicators unemployment rate, inflation and long-term government bond yield was depicted. For countries excluded from the Eurozone, their currency over euro was also used as a variable for analysis.

In the second section of the paper, an extensive reference of Google Trends' background and utility takes place. The third section is focused on the literature review of our research. A variety of papers regarding Google Trends, Economic Policy Uncertainty, construction of uncertainty indices and many more are covered in the pursuit of providing a better understanding of the topic in concern. In the fourth section, we offer a widespread explanation of the steps that were taken while conducting the research. The methods that were followed, as well as the tests that were harnessed, are analyzed thoroughly. The fifth section is focused on depicting the data and the results of the study. All countries are presented in alphabetical order. Tables, figures and Impulse Response Function (IRF) graphs are presented for every country and the results are deeply explained. In the last section, the results of our research are commented, conclusions are drawn and suggestions for future research are presented.

Google Trends

Google Trends is a helpful search trends tool that displays the frequency of a certain search phrase in relation to the overall volume of searches made on the website over a specified time period. Google Trends may be used to find event-driven increases in keyword search traffic and do comparative keyword research. Google Trends offers geographical statistics on search engine users as well as keyword-related data such as the search volume index. It was first introduced on May 11, 2006. Google then released Google Insights for Search on August 5, 2008, an advanced and more detailed service that provided data on search trends to the users. In the concrete study the first version of Google Trends is harnessed.

Providing free access to its vast and almost instant updated data, its use as an auxiliary object for conducting researches in many fields has increased, with papers regarding Google Trends arousing in the past years. Google Trends data is pulled from a random, unbiased sample of Google searches. This means that it does not provide exact numbers for any terms or topics. In order to give a value to terms, each term fluctuates from 1-100, where 100 is the maximum search interest for the time and location selected by the individual.

Regarding the exclusions in the data, Google Trends excludes certain data from the searches. It eliminates repeated searches made from a single user over a short-time period for more accurate results. Also, searches done from a small group of individuals are excluded, appearing with the value of 0 for the investigated period, as Google Trends only analyzes data for popular terms. Special characters are as well eliminated, like inquiries with apostrophes. It is important to note that all the queries fall into categories relative to their origin.

Literature Review

A few studies have demonstrated that business cycle components are impacted by financial performers' susceptibility. Schütze, F. (2020) in 'Google Trends Topic-Based Uncertainty: A Multi-National Approach' uses subject searches from Google Trends to develop an uncertainty proxy that may be used in any country where Google has a presence. The impulse-response functions of the key economic indicators to a shock of one standard deviation to the created indicator are compared to those of the EPU, an existing uncertainty proxy, in this research using a VAR technique. Both Russia and the G7 countries, which are Canada, France, Germany, Italy, Japan, the United Kingdom and the United States; additionally, the European Union (EU) is a "non-enumerated member", can attest to this. The uncertainty indicator created for this study yields, on average, higher statistically significant answers when compared to the EPU. This article so shows that Google Trends is a good instrument for acquiring timely information on the uncertainty of economic participants. The primary improvement is the independence of this uncertainty proxy from language. It's noteworthy to note that current uncertainty measuring methods rely on certain buzzwords that regularly change across different countries.

Castelnuovo, E., & Tran, T. D. (2017) used freely available to public, real-time Google Trends data to create uncertainty indices for the United States and Australia. In their research 'Google it up! a Google Trends-based uncertainty index for the United States and Australia', the terms used in the creation of the uncertainty index were provided by economic documents like the Federal Reserve Beige Book for the US and the Reserve Bank Monetary Policy Statement for Australia. A number of other proxies for uncertainty that are available for these two nations are shown to favorably correlate with the author's Google Trends Uncertainty (GTU) indices, like VXO used by Bloom and EPU index constructed by Baker Bloom and Davis. Investigations using VAR show that GTU shocks in the United States have a statistically and economically substantial impact on the dynamics of unemployment. Contrarily, it is discovered that GTU shocks have a significantly smaller and less significant impact on Australian unemployment dynamics than do shocks related to monetary policy.

Based on the frequency of Google searches for the terms "US stock market", "US politics" and "US Fed", Donadelli, M. (2015) in his study 'Google search-based metrics, policy-related uncertainty and macroeconomic conditions' suggested three unique metrics of policy-related uncertainty. He discovered that a Google search-based uncertainty shock has a significant negative impact on US macroeconomic circumstances in a VAR environment. In particular, it reduces the industrial production, the consumers' confidence, the equity prices, the long-term rates, and the consumers' credit. Donadelli also found that the uncertainty shocks increase the unemployment rate. These results were essentially the same as those brought on by a shock to a common policy-related uncertainty measure. The empirical results indicate that a rise in the number of online searches for themes linked to economic policy is a sign of rising uncertainty. The suggested Google-search-based measures actually satisfy common policy-related uncertainty indicators, the index developed by Baker et al. (EPU) and the VIX (Volatility Index).

Yono, K., Izumi, K., Sakaji, H., Matsushima, H., & Shimada, T. (2019) conducted the research 'Analysis of the macroeconomic uncertainty based on the news-based textual data with financial market', aiming to develop a model for calculating macroeconomic uncertainty based on news content. They found that the acquisition or sale of financial assets can be significantly impacted by the financial market's uncertainty, the US-China trade war's potential impact on the global economy, Federal Reserve Board policy to raise interest rates, and other comparable macroeconomic developments. The authors suggested an enhanced topic model that includes numerical data as a trained signal for each news story in addition to text data from the news. Then they created four macroeconomic uncertainty indices using the suggested approach. All of these indices matched those seen in past macroeconomic events, and their link with market volatility was stronger.

For Australia, Moore, A. (2017) created a monthly indicator of economic uncertainty. During the global financial crisis, economic uncertainty reached previously high levels and persisted there until 2013. In 'Measuring economic uncertainty and its effects' it is shown that the index of economic uncertainty tends to grow quicker than it falls, it is influenced by both local and international causes, and is greater around recessions, elections, monetary policy shocks, and some significant geopolitical events. The author evaluates in the paper how uncertainty impacts the Australian economy using the index. He finds that it inhibits investment and job development, which is consistent with the real options' channel of uncertainty. Similar to the 'precautionary savings' channel of uncertainty, uncertainty increases the household saving ratio and lowers consumption growth for durable goods.

Bilgin, M. H., Demir, E., Gozgor, G., Karabulut, G., & Kaya, H. (2019) in 'A New Method to Measure Economic and Financial Uncertainty in Turkey', aimed to gauge Turkey's level of economic and financial instability. In order to cover the period from January 2004 to December 2018, they created a search-based "Turkish Economic and Financial Uncertainty Index" (TEFUI) and used real-time monthly Google Trends data. In order to create the baseline TEFUI, the paper takes into account more than 400 possible terms. The results of the Vector Autoregression models, Impulse-Response shocks and correlation analysis showed that the TEFUI is substantially correlated with a number of domestic economic uncertainty indicators and global uncertainty indices.

'The impact of uncertainty shocks in Spain: SVAR approach with sign restrictions' study of Albert, J. F., & Gómez Fernández, N. (2018) uses data from January 2001 to June 2018 to employ a SVAR technique with sign limitations in order to estimate the effects of economic uncertainty shocks on some of the main macroeconomic variables in Spain. The authors examined both transient and long-lasting shocks related to economic uncertainty. In order to detect possible changes in the consequences of the uncertainty depending on its origin, they also isolate the uncertainty shocks whose origin is simply political. Their findings imply that increases in economic and political uncertainty result in higher unemployment rates as well as declines in company and consumer confidence, the IBEX 35 Index, and industrial production. Additionally, these unfavorable consequences of uncertainty persist for a long period of time, particularly in the cases of industrial output and unemployment. According to these results, the authors can conclude that economic uncertainty shocks have a significant negative impact on the Spanish economy. It is important to note that the findings suggested that the Spanish

economy responds in a consistent manner regardless of whether it encounters a significant political event, such as the Brexit, or an international or domestic economic uncertainty shock. Therefore, the research suggested that politics is very important for avoiding uncertainty and achieving better economic results, which raise population well-being.

According to the preliminary data in the literature, the U.S. economic cycle may be influenced by shifts in uncertainty. However, a problem remains "uncertain" even when it is adequately quantified by the many accessible markers of uncertainty. The two objectives of the study 'A new index of uncertainty based on internet searches: A friend or foe of other indicators?' of Bontempi, M. E., Golinelli, R., & Squadrani, M. (2016), are to establish a new uncertainty indicator (GT) based on Internet searches and compare the key characteristics and macroeconomic consequences of several uncertainty measures, including the authors' index. According to the comparison research, the type of shocks represented by the indicator utilized has a significant impact on how uncertainty affects the economic cycle. For instance, shortlived financial shocks are a common cause of financial uncertainty (as indicated by the VIX, for example), which in theory shouldn't necessitate extremely persistent reactions. Accordingly, they capture a variety of historical events that occurred across the sample period in an easy-tounderstand manner. News-based and search-based uncertainty measures are determined by all types of shock, provided that such shocks are perceived to be relevant by journalists or by newspaper readers. The findings imply that GT shocks, sometimes sooner than other indices, convey relevant information regarding people's perceptions of uncertainty. Furthermore, parameter breakdowns caused by in sample events have a greater impact on the effect of uncertainty shocks on output than does model specification. The consequence is that an allcomprehensive indicator able to weight different sources of uncertainty is preferable.

Building on the methodology used by Baker, Bloom, and Davis (2016), Arbatli, E. C., Davis, S. J., Ito, A., & Miake, N. (2017) created new economic policy uncertainty (EPU) indices for Japan starting in January 1987, for their study 'Policy uncertainty in Japan'. Each indicator measures the frequency of words related to the economy, politics, and uncertainty appearing in newspaper stories. Approximately 56 percent of all articles that fit their EPU criteria contained terms relevant to fiscal policy. About 24% of the phrases were related to monetary policy, whereas terms connected to trade and exchange rate policy were used less frequently. These findings indicated that fiscal policy issues are the primary near-term source of policy uncertainty in Japan. Trade policy issues were the second-most cited source from mid-2018 to the end of 2019, accounting for 28% of all EPU stories in the Japanese publications as of June 2019. The total EPU index positively correlated with implied volatility for Japanese stocks, interest rates, and currency rates, as well as with a survey-based indicator of political unpredictability. The EPU index increased in response to disputed national elections, significant leadership changes in Japan, the Asian financial crisis, the bankruptcy of Lehman Brothers, the U.S. debt downgrade in 2011, the Brexit vote, and Japan's decision to delay a consumption tax increase. The authors' uncertainty indices for monetary, trade, fiscal, and exchange rate policy positively co-vary but also exhibit unique patterns. As an illustration, when the United States withdrew from the Trans-Pacific Partnership in January 2017, the authors' trade policy uncertainty (TPU) score skyrocketed. VAR models predicted that upward EPU innovations, as seen by impulse response functions for investment, employment, and output, indicated declines in Japan's macroeconomic performance. The research provides more proof that, in part through lowering policy uncertainty, solid policy frameworks and convincing policy programs may positively impact macroeconomic performance.

Bonciani, D. (2018) 'Uncertainty and the Macroeconomy', using a Dynamic Stochastic General Equilibrium (DSGE) model with heterogeneous agents and a stylized banking sector, examined the effects of uncertainty shocks on economic activity in the euro region. The author demonstrated how the effects of uncertainty shocks on economic activity are amplified by frictions in the credit supply. The stickiness of bank lending rates was found the fundamental cause of this application channel. The effectiveness of the monetary policy transmission mechanism was decreased by this stickiness. Then the empirical proof that, depending on the stage of the business cycle, uncertainty shocks have significant, asymmetric effects on economic activity is presented in the paper. In particular, the impulse responses computed using the local projection method on a smooth-transition model demonstrated how substantially economic activity is dampened by uncertainty shocks during recessions. The effects are reversed during an expansion, and uncertainty shocks had favorable macroeconomic effects. One argument was that uncertainty encourages investments and economic activity during expansions via the "growth options" channel, whereas it discourages investments during recessions via the "wait-and-see" channel. Lastly, it is demonstrated how shocks to macroeconomic uncertainty have a detrimental long- and short-term impact on economic activity. In a New Keynesian model with endogenous growth via investment in R&D, volatility shocks have negative effects both in the short and long runs due to cautious saving, a decreased inclination to make risky investments, and increased markups. Agents become more risk-averse when there are long-run fluctuations in consumption, which significantly amplifies the effects of uncertainty shocks.

The goal of the study 'A novel index of macroeconomic uncertainty for Turkey based on Google-Trends' is to gauge Turkey's level of economic and financial instability. The methodology employed creates the "Turkish Economic and Financial Uncertainty Index" (TEFUI), which is based on an internet search-based technique. The results show that TEFUI performs noticeably well to anticipate several indices of the Turkish economy as well as global uncertainty, based on the real-time monthly Google Trends data for the period from January 2004 to December 2018. The authors Bilgin, M. H., Demir, E., Gozgor, G., Karabulut, G., & Kaya, H. (2019), compare their index, which employs terms and phrases relevant to the Turkish economy, with an index created in another nation, such as the United States, in order to assess the relative performance of the measure. Correlation analysis and a thorough VAR analysis supported the findings, which point to TEFUI's ability to effectively capture uncertainty in Turkey.

In the recently developed sustainable information society, information is now accessed online in addition to being consumed. The online conduct of society is monitored, documented, analyzed, compiled, and monetized. Individuals are increasingly being studied, and decision-makers can learn a lot from how people use the internet. In order to correlate the developments of home prices in Poland between 2010 and 2021, the study uses Google Trends to gauge the societal interest in the housing market. The interrelationships (including Granger causality) were identified using the vector autoregressive model, which was also used to predict house

prices. The study of Bełej, M. (2022) 'Does Google Trends Show the Strength of Social Interest as a Predictor of Housing Price Dynamics?', demonstrated that surfing the internet using the phrase "dwelling" impacts the dynamics of housing prices and offers a compelling alternative to the traditional factors traditionally employed in predicting housing market values. It appeared that Poland's housing costs at the start of 2022 have been vastly overstated and were becoming less and less in line with the average household income. This was due to the fact that one may purchase a flat of 50 square meters for an average net wage. The very low main rate interest, extremely low bank deposit rate returns, growing inflation at the same time as profits from deposits from other financial investments, and rising interest in investing capital in real estate were the causes of such high prices in 2021. So, the demand for investments had been the main driver of recent increases in house prices.

Kropiński, P., & Anholcer, M. (2022) in 'How Google Trends can improve market predictions—the case of the Warsaw Stock Exchange' examine the relationships between the WIG20 index and phrases linked to economic policy uncertainty (EPU) as measured by a Google Trends search index. Testing was done for two time periods, January 2015 through December 2019 and June 2016 through May 2021. This made it possible to discern between the time of relative stability and the period of economic shock brought on by the COVID-19 epidemic crisis and its aftermath of the various government-imposed restrictions. Selected search phrases and the value of the WIG20 index were subjected to a bivariate VAR model. The Granger causality test was run after using AIC to determine the ideal number of delays. Twelve EPU-related keywords and changes in the WIG20 index were verified to have an enhanced empirical association in the second period compared to six terms in the pre-COVID era. Additionally, it was shown that the severity of reversal relations rose throughout the post-COVID era.

Numerous industries, including banking, tourism, the economy, fashion, the entertainment industry, the oil trade, and healthcare, have made substantial use of Google Trends. The objective of the scoping assessment of Zayed, B. A., Talaia, A. M., Gaaboobah, M. A., Amer, S. M., & Mansour, F. R. (2023) in 'Google Trends as a predictive tool in the era of COVID-19: a scoping review', is to provide an overview of Google Trends' function as a monitoring and forecasting tool for the COVID-19 pandemic. Original English-language peer-reviewed research publications on the COVID-19 pandemic that were published in 2020 and used Google Trends as a search engine were the inclusion criteria for this scoping study. Articles that did not describe the use of Google Trends during the COVID-19 epidemic, were written in a language other than English, or were solely in abstract form, were eliminated. These criteria led to the inclusion of 81 papers in total to span the first year following the crisis' emergence. It was suggested from the autos that health authorities may benefit from using Google Trends to plan and manage pandemics sooner and reduce infection risks among individuals.

Consumer behavior and policy on renewable and clean energy are significantly influenced by public interest in these issues. Using freely available, search frequency data from the Google search engine, through the Google Trends service, is a way to determining the public interest for particular topics based on the data provided. The frequency of searches may be used to gauge public opinion on a range of issues, including health care, global warming

and environmental issues, money and economics. The article 'Assessing public interest towards renewable wind energy using Google Trends', reports on research of public interest in wind energy subjects. The Perju-Mitran, A., Zirra, D., & Mitran, R. A. (2022) used six Google search terms from 2004 to 2020: "wind power", "wind energy", "offshore wind", "wind farm", "wind turbine" and "wind generator". All keywords—aside from "offshore wind"—display a consistent decline from a high between 2008 and 2010 up to 2015, followed by a brief shift in the range between 2015 and 2020. Similar to this pattern, interest in offshore wind subjects also rises in frequency starting in 2015 and peaks in 2018. In general, the Google Trends statistics show a decline in public interest in most wind energy subjects between 2004 and 2020, with the exception of "offshore wind" for English-speaking users. It is important to note that the global interest for wind energy topics is significant for both developed and developing countries.

The use of Google Trends data to enhance real estate market forecasting is illustrated in 'Use of Google Trends to Predict the Real Estate Market: Evidence from the United' by Bulczak, G. M. (2021). Online searches generate useful information that comes before financial choices. This study investigates how well Google search engine data may be used to forecast real estate markets. The findings suggest that Google data might be a further source of knowledge for investors and decision-makers. This study expands on the body of research already done on how behavioral variables play a part in decision-making. Data from Google Trends have been found to be a reliable indicator of real estate market pricing and sales volume.

In the study 'Can Google Trends Improve Housing Market Forecasts?', the authors Limnios, A. C., & You, H. (2021) employed Google Trends data to supplement linear pricing models for the housing market that are often used in the literature in order to determine whether or not crowd-sourced search query data may enhance the models' forecasting abilities. To evaluate statistical fit, they estimated both sets of models (with and without the search query data). Then, they evaluated the out-of-sample, dynamic predictions of the enhanced linear model against a baseline version using a variety of performance metrics. They discovered that enhancing the models to take use of the accessibility of Google Trend data does not materially enhance the models' predicting capabilities.

The promising potential of web-based search data for forecasting macroeconomic statistics is highlighted by the Ettredge, Gerdes, and Karuga (2005) research 'Using web-based search data to predict macroeconomic statistics'. By using the enormous quantity of data produced by internet search activity, researchers quickly got new insights into consumer attitude and behavior. Despite the fact that the strategy had many benefits, it is important to recognize its drawbacks and keep improving the analytical methodology. Integrating online search data into macroeconomic forecasting models could help better understand the economy and produce predictions that are increasingly accurate as technology develops and data availability increases.

Following significant shocks like the OPEC I oil price shock, the 9/11 terrorist attacks, the JFK assassination, the Cuban Missile Crisis, and the killing of JFK, uncertainty seems to spike. A structural framework is provided in this research to examine the effects of these uncertainty shocks. Bloom, N. (2009), 'The impact of uncertainty shocks', constructed a time-varying second moment model that uses firm-level data to estimate it and solve it numerically.

Then, a macro uncertainty shock was simulated using the parameterized model, leading to a sharp decline and subsequent rebound in total production and employment. This happened as a result of businesses temporarily pausing their employment and investment due to increased uncertainty. Because of the freezing of reallocation among units caused by this activity stop, productivity growth also declined. Overshoot in production was caused in the medium term by the shock's increased volatility. Because of the freezing of reallocation among units caused by this activity stop, productivity growth also declines. The shock's heightened volatility causes production, employment, and productivity to overshoot in the medium run. Uncertainty shocks can cause swift, short-lived recessions and recoveries. Vector autoregression calculations on actual data were compared to this simulated impact of an uncertainty shock, and the results demonstrated a good match in terms of size and time. Convex and nonconvex labour and capital adjustment costs were jointly estimated in the article. It had been demonstrated that disregarding labour adjustment costs does not result in bias, however ignoring capital adjustment costs does.

The amount of inflation is thought to be a measure of the degree of monetary policy uncertainty, according to Bali's (1992) explanation of the positive association between inflation and inflation uncertainty. If shocks to aggregate demand have transient actual impacts, then inflation is a measure of how unpredictable real economic activity is. Hayford, M. D. (2000), 'Inflation uncertainty, unemployment uncertainty and economic activity', demonstrates that concern about future unemployment—a proxy for doubt about future actual economic activity—increases with inflation in addition to inflation uncertainty itself. Furthermore, regression results imply that slower production growth occurs briefly when both inflation uncertainty and unemployment uncertainty increase. Additional impulse response functions show that the impacts of inflation and unemployment uncertainty on real GDP growth are of the same magnitude. This shows that increased inflation uncertainty's cost of higher unemployment may be comparable to inflation uncertainty itself.

Methodology

To begin with our research, we constructed our monthly Uncertainty Index (UI) through Google Trends. For the simplicity of the research, the chosen and investigated words were in English and not translated in each country's language. For the creation of the uncertainty index, we chose words-phrases that individuals would be most interested in seeking information for in the most popular search engine worldwide, Google, in periods of escalating uncertainty. These four terms were "minimum wage", "energy price", "bank crisis" and "home price". The time frame for all of our monthly data is from January 2008 to December 2022.

In Google Trends data we are not looking at the total number of searches, but instead at the percentage of searches for that topic, as a proportion of all searches at that time and location. Google Trends data is pulled from a random, unbiased sample of Google searches, for this reason we collected the data for the investigated words for all 27 countries on the same day, as results vary from day to day. For every value received close to 1, on all of the four terms investigated, we rounded it up to 1 for the simplicity of our study. Having chosen Greece as the benchmark country in the Google Trends data, it being our dominant interest, we collected data for each country using the same four words and added as the fifth search the term "home price" for Greece. Following this method, we were able to rescale the countries needed, so the index took values up to 100. Furthermore, we separated and categorized the countries in two groups, the European Union group and the Eurozone group. We created the Aggregate Uncertainty Index for EU and the Aggregate Uncertainty Index for EA (Euro Area). To accomplish that, firstly, we downloaded the annual Real Gross Domestic Product (RGDP) for all the countries from 2008 to 2022. In doing so, we managed to derive the weight of each country relative to the whole using the following formula:

Real Gross Domestic Product for country i at 2008 / Total for all EU Real Gross Domestic Product at 2008 * (Uncertainty Index for country i for every month at 2008)

for every country and then aggregating all of them the Aggregate Uncertainty Indices were constructed. It is critical to consider that we hypothesized a stable RGDP throughout the year for all countries.

After collecting the data and constructing our monthly Uncertainty Index (UI), we gathered monthly data for "unemployment rate", "inflation" and "long-term government bond yield 10 year" for every country from January 2008 to December 2022. For countries in the European Union but not in the Eurozone, we also collected monthly data for their currency over euro. These countries were Bulgaria, Croatia, Czech Republic, Denmark, Hungary, Poland, Romania and Sweden. It is important to note that Croatia joined the Eurozone on January 2023, a fact that this study remained unaffected by. The correlation of these economic indicators and our Uncertainty Index was then examined. The Uncertainty Index of every country was also correlated with the UI of the other countries for both EU and EA, in tables clearly presented in the Appendix A section. Our main source of data for these variables was

the Federal Reserve Economic Data (FRED) St. Louis FED website. Regarding the "long term government bond yield 10 years", data for Bulgaria, Croatia, Malta and Romania were collected from the website Investing.com, Financial News website. We did not come across data for the specific economic indicator for Estonia and Cyprus. Now, concerning the "unemployment rate", data for Romania, Malta, Cyprus, Croatia, Lithuania, Latvia and Bulgaria were found in the YCharts–Financial Research and Proposal Platform website.

After finding the correlation between our Uncertainty Index and the economic indicators for each country, we proceeded to finding the correlation of our Uncertainty Index and the existing well-known Economic Policy Uncertainty index (EPU), by Baker, Bloom & Davis (2016), and the Consumer Confidence Index (CCI). These indices are easy and free to access through their websites and are constantly used in many research fields. Data for CCI were not found for the countries Bulgaria, Croatia, Cyprus, Malta and Romania, while data for EPU were only found for 9 out of 27 countries – Belgium, Croatia, France, Germany, Greece, Ireland, Italy, Netherlands and Spain. A significance test was run for all correlations to check for the validity of the values received.

Lastly, we proceeded to the conduction of Vector Autoregressive (VAR) models, through the STATA econometric program, fact that allowed us to gauge the interaction between the employed variables – unemployment rate, inflation and long-term government bond yield 10 years – and our Uncertainty Index. The VAR results are presented in the Appendix B. Tests for unit-roots were harnessed – Augmented Dickey Fuller and Phillips Perron – and first differences were taken whenever needed. A series of commands - Varsoc, Varstable and Varlmar – were harnessed for deriving the optimal lags for the VAR model. For every country, we started from 12 lags, meaning 12 months as we operate with monthly data, reaching down to 2 lags. Starting with Varsoc, it reports the final prediction error (FPE), Akaike's information criterion (AIC), Schwarz's Bayesian information criterion (BIC), and the Hannan and Quinn information criterion (HQIC) lag-order selection statistics for a series of vector autoregressions of order 1 through a requested maximum lag. A sequence of likelihood-ratio test statistics for all the full VARs of order less than or equal to the highest lag order is also reported. Varstable checks the eigenvalue stability condition after estimating the parameters of a vector autoregression using VAR or SVAR. Lastly, Varlmar implements a Lagrange multiplier (LM) test for autocorrelation in the residuals of VAR models, which was presented in Johansen (1995). For the optimal lag to be chosen, we wanted more tests to show optimal lags on Varsoc, all eigenvalues to lie inside the unit circle so VAR can satisfy stability condition and for the second lag on Varlmar to be greater than 0,05 so as to eliminate autocorrelation.

With the use of Impulse Response Function (IRF) graphs we were able to delve into the effect of one standard deviation shock on the uncertainty of the country to the economic indicators. All IRFs were set to forecast 12 periods ahead. Also, we tested the effect that the level of uncertainty of a strong economy, Germany, could have on the economic indicators and uncertainty of the other European countries. In the last section we compare again the Uncertainty Index of Germany with the UI European Union and the UI Euro Area, alongside with a correlation test between the three variables. The results are succinctly presented in the next section. All countries are displayed and commented on separately, accompanied by multiple graphs and tables.

Data & Results

In this section the data and the results from our research are being depicted, with the assistance of figures and tables. The results are presented and commented on separately by country and the ranking of the countries is in alphabetical order. The countries' Uncertainty Indices are also compared and correlated with Germany's Uncertainty Index, it being one of Europe's largest economies. At the end of the section, the results from the European Union and the Eurozone are also presented. For the countries not included in the Euro Area, marked with '*', their currency over euro is added in the pool of the variables for analysis.

AUSTRIA

Starting with Austria, having created the Uncertainty Index based on Google Trends and gathered the data for the economic indicators – unemployment rate, inflation and long-term government bond –the graph of the variables is presented below, as well as their correlations in Table 1.1. The negative correlation between the Uncertainty Index and the unemployment rate does not line up with the theory, as high uncertainty may induce a drop in the number of vacancies and in the job finding rate, ultimately resulting in a rise in unemployment, but it is considered to be a very weak correlation.

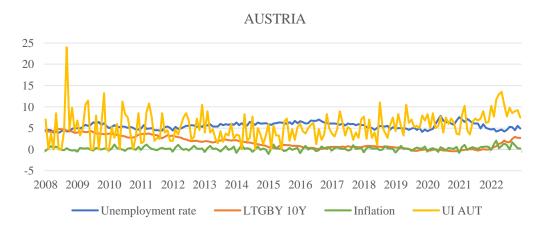


Figure 1.1. Austria – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Austria
Unemployment rate	1			
LTGBY 10Y	-0,434895999	1		
Inflation	-0,16963067	-0,007424974	1	
UI Austria	-0,187562541	-0,061869347	0,137563423	1

Table 1.1. Austria – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and longterm government bond 10-year yield of the country.

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For the correlation between our Uncertainty Index and other existing uncertainty indices, we only came across data for the Consumer Confidence Index (CCI) for Austria. The correlation of -0,2019 in Table 1.2.1, indicates a negative relationship between the two indices, a desirable result that lines up with theory, showing that in every spike in the consumer's uncertainty, its confidence diminishes. The Table 1.2.2 presents the t-statistic of the correlation, which was found to be statistically significant in the 1% confidence level.

	UIAUT	CCI
UI AUT	1	
CCI AUT	-0,2019734	1

Table 1.2.1. Austria – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI AUT) and the Consumer Confidence Index (CCI AUT).

	t-statistic p-va	
CCI/UI	-2,751364727	0,006548769

Table 1.2.2. Austria – T-statistic and p-value prices from correlations.

The following graph compares the Google Trends based Uncertainty Index for Austria and Germany, one of Europe's greatest economies. The table reports their correlation at 0,3132 – a weak correlation – with the t-statistic absolute value at 4,40 and the p-value less than 0,01, posing it statistically significant at the 1% confidence level.

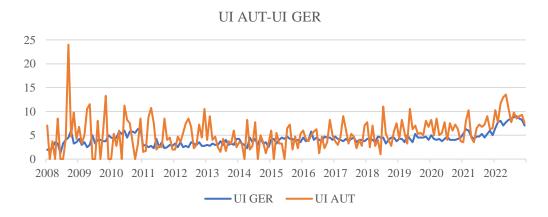


Figure 1.2. Austria – Google Trends based Uncertainty Index of Austria and Germany.

	UI GER	UI AUT
UI GER	1	
UI AUT	0,31325174	1

Table 1.3.1. Austria – Correlation between Austria's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI AUT/UI GER	4,400790665	1,85474E-05

Table 1.3.2. Austria – T-statistic and p-value prices from correlations.

Regarding the Impulse Response Function (IRF) graphs, we start from the conduction of the VAR model. Knowing that a VAR model can only work if each variable is stationary, we tested all the variables for unit-roots. We performed the Augmented Dickey-Fuller test and the Phillips Perron test, both having as null hypothesis the variable containing a unit root, and as an alternative the variable was generated by a stationary process. For Austria, the variable LTGBY10Y was found containing unit-root, so the first differences were taken. The optimal lags for the VAR model that satisfied all the tests were found to be 6. Tables 1.4, 1.5 and 1.6 in appendix present analytically the results of the commands ran. Based on this the IRF graphs were conducted. The first IRF graph depicts the one-standard deviation impulse of our Uncertainty Index of Austria (UIAUT) to the Inflation, the Uncertainty Index itself, the Unemploymentrate and the dLTGBY10Y of the country. Such a shock generates a small and almost inconsiderable reaction in the Austrian economic indices, with the inflation's response moving around 0,01% and 0,04% price level in the span of 12 periods. Regarding the UIAUT on UIAUT, the initial shock happens in the first period and then quickly dies as the impact returns to 0,90% and slightly decreases to 0,85% after 1 year. For Unemploymentrate the shock remains positive at 0,01% price level and for dLTGBY10Y a small fall occurs on the 3-4 period but the price level rises immediately the next period. The Forecast Error Variance Decomposition table, which divides the changes or the variation in an endogenous variable into the component shocks of the Panel VAR model, is presented in the Table 1.7 in the appendix.

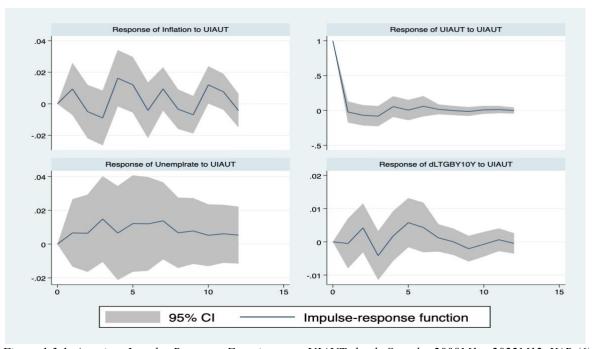


Figure 1.3.1. Austria – Impulse Response Functions to a UIAUT shock. Sample: 2008M1 – 2022M12. VAR (6) estimated with an exogenous variable (UIGER). 95% confidence interval.

For the second IRF graph, a dynamic-multiplier function was used that measures the impact of a unit increase in an exogenous variable on the endogenous variables over time. The exogenous variable in our case is the Germany's Uncertainty Index. The following graph depicts the one-standard deviation impulse of UIGER to the AUT Inflation, the UIAUT, the AUT Unemplrate and the AUT dLTGBY10Y. The UIGER shock seems to generate a greater response on the indicators than the UIAUT previously. The AUT Inflation quickly jumps to 0,03% and by the second period it converges back to zero. The shock on UIAUT begins at 0,4% and then falls and remains around 0,1% and 0,02%. For AUT Unemplrate a negative impact is observed for all 12 periods, showing the decrease in Austria's unemployment with that shock on Germany's Uncertainty Index. Lastly, the AUT dLTGBY10Y remains positive for a short period, and then fluctuates around zero. The Table 1.8. in appendix, reports the dynamic- multiplier function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

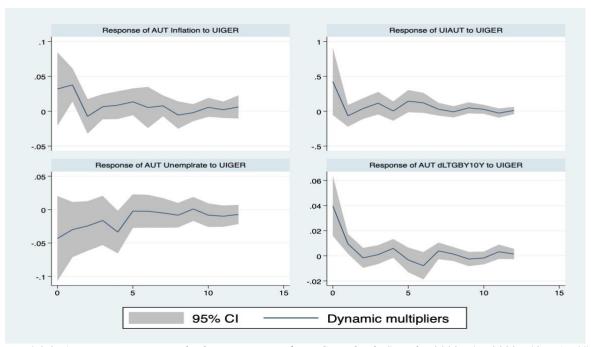


Figure 1.3.2. Austria – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (6) estimated with an exogenous variable (UIGER). 95% confidence interval.

BELGIUM

For Belgium the inflation and unemployment rate seem to remain steady throughout the fifteen years span, unlike the long-term government bond yield 10 year and the Uncertainty Index, which appear to drop and rise respectively just after half of the time horizon. The correlations between the indicators are shown in the Table 2.1. Here, the negative correlation 0f -0,50 between unemployment rate and the Uncertainty Index is considered moderate. Also,

the -0,22 weak correlation between inflation and unemployment rate and the 0,39 weak correlation between unemployment rate and long-term government bond yield 10 years line with the economic theory, as an increase in unemployment rate tends to decrease inflation and increase the high-yield bond spreads.

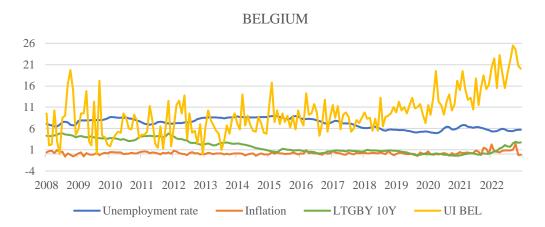


Figure 2.1. Belgium – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	Inflation	LTGBY 10Y	UI Belgium
Unemployment rate	1			
Inflation	-0,228293421	1		
LTGBY 10Y	0,390578592	0,016806041	1	
UI Belgium	-0,506568979	0,28430013	-0,340880245	1

Table 2.1. Belgium – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield of the country.

Regarding the correlation of our Uncertainty Index with existing measures of uncertainty, we take the following Table 2.2. The signs of the correlation between UI BEL, CCI BEL and EPU BEL are considered punctual to theory. A negative correlation is always expected between an uncertainty index and the Consumer's Confidence Index. Table 2.2.2 reports the t-statistics and p-values of the correlations, posing them statistically significant at the 1% confidence level.

	UI BEL	CCI BEL	EPU BEL
UI BEL	1		
CCI BEL	-0,3171053	1	
EPU BEL	0,36288483	-0,4453187	1

Table 2.2.1. Belgium – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI BEL), the Consumer Confidence Index (CCI BEL) and the Economic Policy Uncertainty index (EPU BEL).

	t-statistic	p-value
CCI/UI	-4,460940427	1,44281E-05
EPU/UI	5,195654514	5,54546E-07
CCI/EPU	-6,635556658	3,75682E-10

Table 2.2.2 Belgium – T-statistic and p-value prices from correlations.

It is important to note the different behavior of each country's Uncertainty Index regarding the period of the COVID19 epidemic crisis. The UIBEL almost doubles from 2019 to 2022, while UIGER slightly increases in 2022. Table 2.3.1 reports the correlation between UIBEL and UIGER. A positive and strong correlation of 0,622 between the countries, with an upstanding t-statistic of 10,62 and a p-value well less than 0,01.

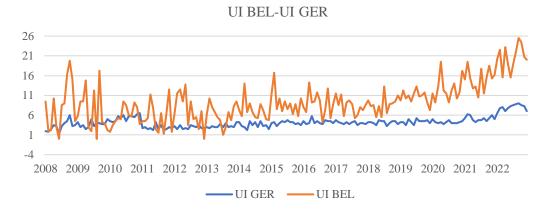


Figure 2.2. Belgium – Google Trends based Uncertainty Index of Belgium and Germany.

	UI GER	UI BEL
UI GER	1	
UI BEL	0,62294019	1

Table 2.3.1. Belgium – Correlation between Belgium's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI BEL/UI GER	10,62429146	9,89426E-21

Table 2.3.2. Belgium – T-statistic and p-value prices from correlations.

For the Belgian variables, the Augmented Dickey Fuller and Phillips Perron tests were harnessed. It was found that the Unemploymentrate and the LTGBY10Y contained a unit-root. In order to make them stationary we took their first differences, creating the variables dUnemplrate and dLTGBY10Y. For the conduction of the VAR model, as the tables 2.4, 2.5 and 2.6 indicate in the appendix, 4 lags were needed. The first IRF graph depicts the one-standard deviation effect of our Uncertainty Index of Belgium (UIBEL) to the Inflation, the Uncertainty Index itself, the dUnemplrate and the dLTGBY10Y of the country. It appears that the Inflation's price levels remained mainly negative, despite of three periods that turned

slightly positive. Regarding the UIBEL, its maximum level was on the second period at 0,26% and then it fluctuated around 10% until the sixth period before it dies out and converges to zero. The dLTGBY10Y was the only variable that remained negative throughout the whole 12 periods. Now, dUnemplrate started of negative just for the first period and then spiked to 0,01%, marking it its highest price level. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 2.7 in the appendix.

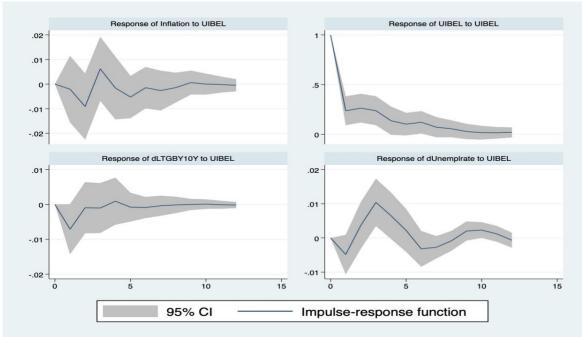


Figure 2.3.1. Belgium – Impulse Response Functions to a UIBEL shock. Sample: 2008M1 – 2022M12. VAR (4) estimated with an exogenous variable (UIGER). 95% confidence interval.

Regarding the second IRF graph, a dynamic-multiplier function was used that measures the impact of a unit increase in an exogenous variable on the endogenous variables over time. The exogenous variable being the Germany's Uncertainty Index and the endogenous being the BEL Inflation, the UIBEL, the BEL dUnemplrate and the BELdLTGBY10Y. Again, it appears that the UIGER has a greater influence in the Belgian economic indicators than the UIBEL. The BEL Inflation, UIBEL and BEL dUnemplrate seem to have a similar graph. All three start of positive in the first period, first months, with UIBEL only managing to remain positive throughout all 12 periods. Both BEL Inflation and BEL dUnemplrate turn negative around the same time, at the third period, and turn a little positive before they move closer to zero. In the case of BEL dLTGBY10Y, it is clear that UIGER constitutes a greater impact as the range covered is from nearly -0,02% to 0,01% in contrast with UIBEL that reached a maximum -0,007%. The Table 2.8. in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

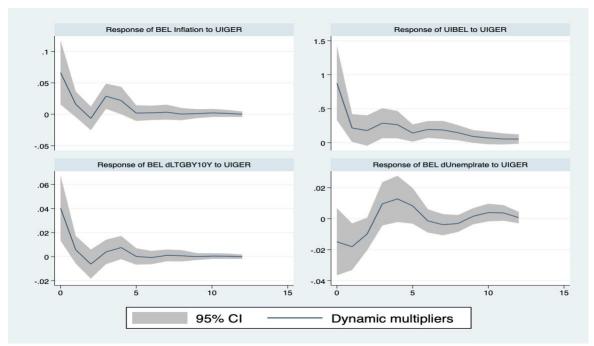


Figure 2.3.2. Belgium – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (4) estimated with an exogenous variable (UIGER). 95% confidence interval.

BULGARIA*

In the case of Bulgaria, the economic indicators, our Uncertainty Index, as well as the country's currency over the euro is analyzed. The country's official currency is the Bulgarian lev (BGN), which is approximately 0,50 Euros in today's data. A moderate negative correlation of -0,425 is reported in the Table 3.1 between unemployment rate and the Uncertainty Index of the country. The signs of the correlations for inflation and long-term government bond yield 10 years line with the economic theory. Regarding the BGN/EUR currency, it is known that low unemployment rates mean a strong economy, which increases the demand for the currency. If a low unemployment rate is reported, then investors may believe the economy of that country is good. Therefore, they may seek investment opportunities in that country, causing a rise in the value of that currency. So, a negative correlation is expected in this case, which matches the results we retrieved from the analysis.

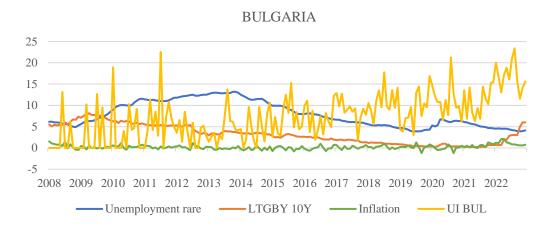


Figure 3.1. Bulgaria – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rare	LTGBY 10Y	Inflation	UI Bulgaria	BGN/EUR
Unemployment rare	1				
LTGBY 10Y	0,420474172	1			
Inflation	-0,301871059	-0,021181425	1		
UI Bulgaria	-0,425526596	-0,474859479	0,242434193	1	
BGN/EUR	-0,024512157	-0,160558464	-0,025539508	0,099983647	1

Table 3.1. Bulgaria – Correlation between the Uncertainty Index (UI), unemployment rate, inflation, long-term government bond 10-year yield and the currency of the country over euro (BGN/EUR).

For Bulgaria, we did not come across data for either Economic Policy Uncertainty (EPU) or Consumer Confidence Index. Based on that fact, we move on to the next graphs annotation. The comparison of the two Uncertainty Indices, UIBUL and UIGER, is shown in the Figure 3.2. Their positive correlation of 0,438 is statistically significant based on the p-value. It is of note, the extreme fluctuations on the UIBUL, a minor economy, in contrast to the smoother ones in UIGER, a significant economy.

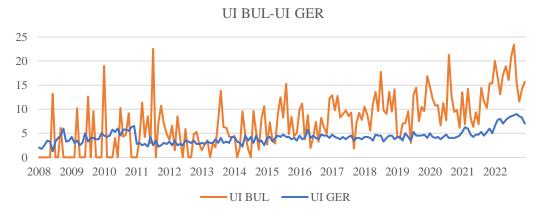


Figure 3.2. Bulgaria – Google Trends based Uncertainty Index of Bulgaria and Germany.

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	UI GER	UI BUL
UI GER	1	
UI BUL	0,43856062	1

Table 3.2.1. Bulgaria – Correlation between Bulgaria's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI BUL/UI GER	6,51064641	7,3799E-10

Table 3.2.2. Bulgaria – T-statistic and p-value prices from correlations.

For the Bulgarian variables the Augmented Dickey Fuller and the Phillips Perron tests were harnessed. It was found that the Unemploymentrate and the LTGBY10Y contained a unitroot. In order to make them stationary we took their first differences, creating the variables dUnemplrate and dLTGBY10Y. The tables 3.4, 3.5 and 3.6 indicate number optimal lags 3 for the VAR model in the case of Bulgaria. The following Figure 3.3.1, presents the one-standard deviation impulse on UIBUL to the Inflation, the Uncertainty Index itself, the BGN/EUR currency, the dLTGBY10Y and the dUnemplrate of the country. The first graph shows the almost nil response of the BGN/EUR to UIBUL. Inflation reacts negatively the first couple of periods, but then turns positive before it converges to zero. The UIBUL quickly drops to 0,10% and rebounds close to 0,25% the next period. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 3.7 in the appendix.

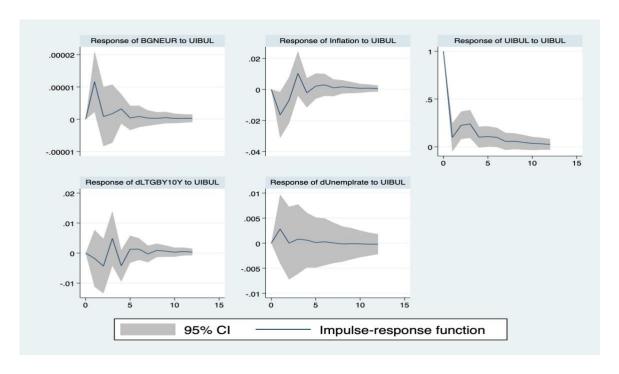


Figure 3.3.1. Bulgaria – Impulse Response Functions to a UIBUL shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

The second IRF figure is a dynamic-multiplier function was used that measures the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. The effect of UIGER on the Bulgarian economic indicators and UIBUL does not seem to be of greater importance than the effect of UIBUL on them. The Table 3.8 in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

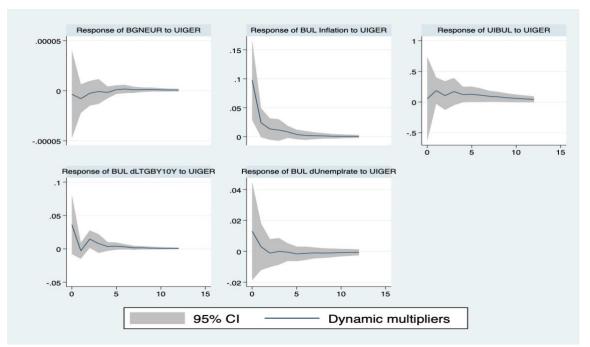


Figure 3.3.2. Bulgaria – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

CROATIA*

For Croatia, despite the economic indicators and our Uncertainty Index, the country's currency was also in the pool for analysis. The country's official currency from May 1994 until December 2022 was Kuna and as of January 2023 Croatia officially entered the Eurozone, adopting Euro as its currency. Since our time horizon indeed stops on December 2022, this fact leaves the study unaffected. Now, regarding the signs of the correlations on Table 4.1, we have desirable results for every variable, except from the Uncertainty Index of Croatia which provided a weak negative correlation of -0,279. Also, it is significant to observe that the Croatian's unemployment rate almost tripled from 2008 to 2014, while the other indicators remained quite steady.

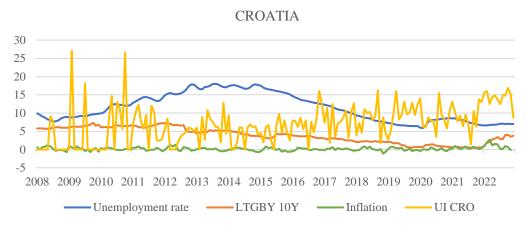


Figure 4.1. Croatia – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Croatia	HRK/EUR
Unemployment rate	1				
LTGBY 10Y	0,494555346	1			
Inflation	-0,203754696	-0,045200316	1		
UI Croatia	-0,279447721	-0,381778392	0,126060852	1	
HRK/EUR	-0,434301629	0,339408494	0,02439626	-0,149068669	1

Table 4.1. Croatia – Correlation between the Uncertainty Index (UI), unemployment rate, inflation, long-term government bond 10-year yield and the currency of the country over euro (HRK/EUR).

For Croatia, data for the Economic Policy Uncertainty index was found and correlated with our Google Trends based Uncertainty Index. The positive correlation between UI CRO and EPU CRO indicates that our constructed uncertainty index follows the anticipation of the theory. The correlation of 0,2733 was found statistically significant at 1% confidence level, with t-statistic of 3,79 and p-value of 0,0002.

	UI CRO	EPU CRO
UI CRO	1	
EPU CRO	0,27330827	1

Table 4.2.1. Croatia – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI CRO) and the Economic Policy Uncertainty index (EPU CRO).

	t-statistic	p-value
EPU/UI	3,790712794	0,000205466

Table 4.2.2. Croatia – T-statistic and p-value prices from correlations.

The Croatian Uncertainty Index (UICRO) records two extreme spikes, one in 2009 and the other at the end of 2010. The death of six people and 55 injured in the Rudine train derailment in 2009 as well as the high levels of corruption reported in Croatia in 2010, could be the leading cause of these spikes. The Table 4.3.2. shows a positive correlation of 0,385, which is statistically significant based on the next table.

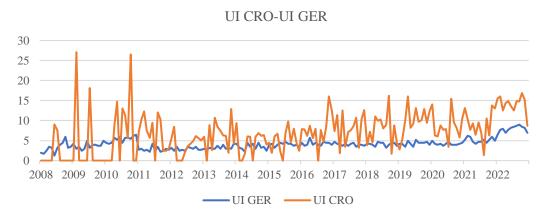


Figure 4.2. Croatia – Google Trends based Uncertainty Index of Croatia and Germany.

	UI GER	UI CRO
UI GER	1	
UI CRO	0,38509149	1

Table 4.3.1. Croatia – Correlation between Croatia's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI CRO/UI GER	5,567105348	9,40523E-08

Table 4.3.2. Croatia – T-statistic and p-value prices from correlations.

The tests Augmented Dickey Fuller and Phillips Perron were harnessed. The variables Unemploymentrate, LTGBY10Y and HRK/EUR were containing a unit-root. We took their first differences to eliminate that problem and convert them to stationary variables. The new variables were dUnemplrate, dLTGBY10Y and dHRK/EUR. Following the indications of the Varsoc, Varstable and Varlmar, tables 4.4., 4.5. and 4.6. in appendix, the number of optimal lags for the VAR model of Croatia was 5. Below the Figure 4.3.1. presents the one-standard deviation impulse on UICRO to the Inflation, the Uncertainty Index itself, the dHRK/EUR currency, the dLTGBY10Y and the dUnemplrate of the country. The effect of a UI CRO shock to Inflation is negative up until the third period, where it converges to zero and begins to die out by the last period. Response of the Uncertainty Index itself is positive in the first three periods, slightly turning negative for only 0,05% and converting positive reaching its maximum price in the next period at 0,31%. Regarding the dHRK/EUR, the response is assumed to be inconsiderable. Insignificant is also the response of dUnemplrate to the one-standard deviation

impulse on UI CRO, although showing that it is been negatively affected throughout the periods. Lastly, dLTGBY10Y appeared to converge to zero reaching as high as 0,02%. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 4.7. in the appendix.

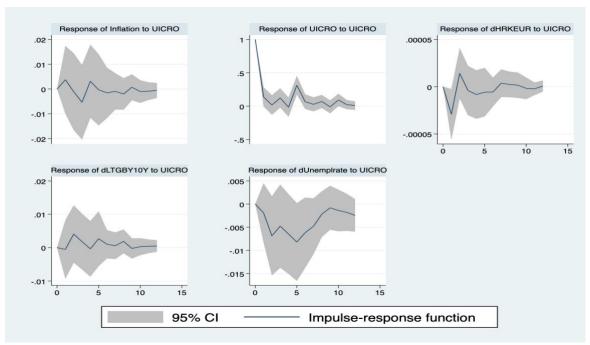


Figure 4.3.1. Croatia – Impulse Response Functions to a UICRO shock. Sample: 2008M1 – 2022M12. VAR (5) estimated with an exogenous variable (UIGER). 95% confidence interval.

The next IRF figure is a dynamic-multiplier function was used that measures the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. The impulse of UI GER is much more effective and clearer on the indicators than UI CRO is, meaning that negative events of a strong economy are capture in the economy of the weaker country. For CRO Inflation we observe a positive effect in the beginning, smoothly converging to zero, same as the UI CRO with a strong rebound in the fifth period of 0,3% before a fall of -0,07%. As for the dHRK/EUR the effect was again minor but greater than the UI CRO's one. Regarding the last two variables, dLTGBY10Y and dUnemplrate, we observe that they share both almost equal negative and positive periods. The Table 4.8. in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

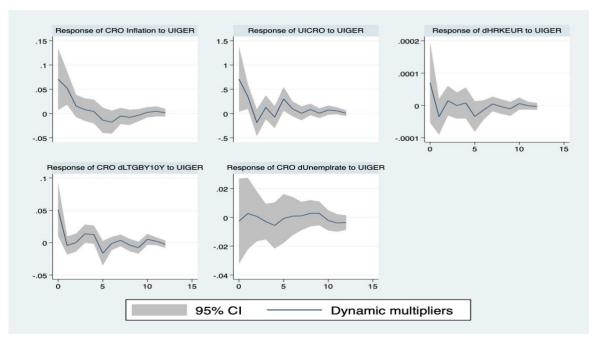


Figure 4.3.2. Croatia – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (5) estimated with an exogenous variable (UIGER). 95% confidence interval.

CYPRUS

For Cyprus data was only found about the unemployment rate and the inflation. Regarding the long-term government bond 10-year yield, data was only available from November 2015 and onwards. For this reason, it was not included in the pool of variables for analysis. The maximum level of unemployment reached was in 2014, around 15%. The correlation between unemployment rate and inflation was found negative, fact that as mentioned before aligns with the economic theory.

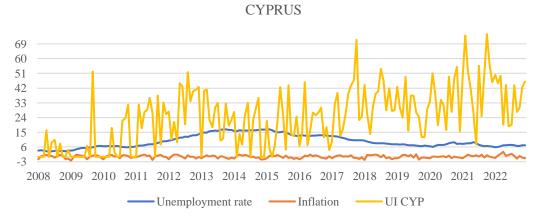


Figure 5.1. Cyprus – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	Inflation	UI Cyprus
Unemployment rate	1		
Inflation	-0,105181057	1	
UI Cyprus	-0,180726647	0,163672085	1

Table 5.1. Cyprus – Correlation between the Uncertainty Index (UI), unemployment rate and inflation.

Data for Cyprus regarding the Economic Policy Uncertainty (EPU) or Consumer Confidence Index (CCI) were not available in any platform. The Figure 5.2. represents the comparison of the Uncertainty Indices for the countries Cyprus and Germany. The insistence of UICYP to extreme fluctuate, mainly from 2017 onwards, is of no concern for UIGER. The correlation between the two variables is at 0,217, a relatively weak correlation in contrast to the previous countries analyzed. The t-statistic is in absolute value at 2,97, as seen in Table 5.2.2. and the p-value less than 1%.

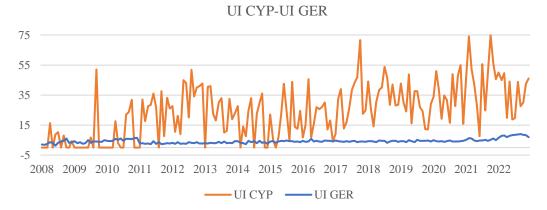


Figure 5.2. Cyprus – Google Trends based Uncertainty Index of Cyprus and Germany.

	UI GER	UI CYP
UI GER	1	
UI CYP	0,21733556	1

Table 5.2.1. Cyprus – Correlation between Cyprus's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI CYP/UI GER	2,97062497	0,00338241

Table 5.2.2. Cyprus – T-statistic and p-value prices from correlations.

The Figure 5.3.1. is the first IRF graph for Cyprus. The Augmented Dickey Fuller and Phillips Peron tests were run on the variables to test for unit-roots. For Cyprus we only had three variables, Inflation, Unemploymentrate and the Uncertainty Index (UI CYP). The only variable found containing a unit-root was Unemploymentrate, of which we took the first differences and converted it to a stationary variable, dUnemplrate. According to the tables 5.3., 5.4. and 5.5. in appendix, the optimal number of lags for the VAR model of Cyprus was 3. As seen in the figure, the one-standard deviation of UI CYP on Inflation and dUnemplrate is very

similar, with both variables jumping in the second period and then converging to zero before they die out. One the other hand, the impulse of UI CYP on UI CYP looks positive for the whole twelve periods length. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 5.6. in the appendix.

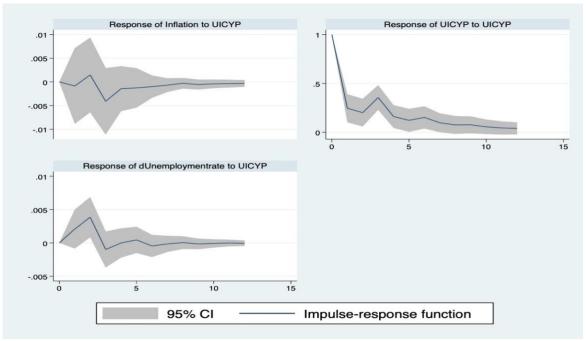


Figure 5.3.1. Cyprus – Impulse Response Functions to a UICYP shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

Figure 5.3.2 is a dynamic-multiplier function was used that measures the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. Regarding the CYP Inflation, it started off positive, turning as negative a -0,02% before it converged to zero. For UICYP's reaction to the UIGER impulse, it reached its maximum level at 0,38% in the third period, managing to remain positive until the end of the periods investigated. On the other hand, CYP dUnemplrate stayed negative or very close to zero throughout the twelve periods. The Table 5.7. in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

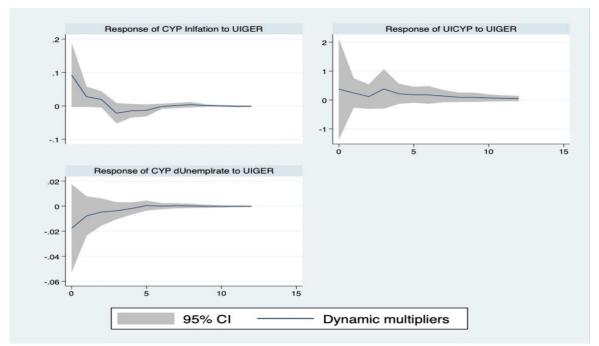


Figure 5.3.2. Cyprus – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

CZECH REPUBLIC*

Regarding Czech Republic, the following graph and table depict the economic indicators' and Uncertainty Index's historical route and correlation respectively. Due to Czech Republic not being an official member of the Eurozone, but only included in the European Union, its official currency is also assessed. The koruna, or crown, has been the currency of the Czech Republic since 1993. In today's data 1 koruna is equal to 0,41 euros. Now, concerning the variables, UICZ appears to have been quite affected by the 2008 financial crisis, while not at least with the same attitude during the COVID19 epidemic crisis or the Russian-Ukrainian war in the beginning of 2022. The economic indicators' signs of correlations provide a desirable outcome, with the strongest being the correlation between unemployment rate and the long-term government bond yield 10 years with 0,342.

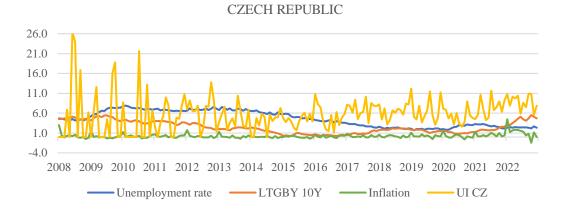


Figure 6.1. Czech Republic – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Czech Rep.	CZK/EUR
Unemployment rate	1				
LTGBY 10Y	0,342193735	1			
Inflation	-0,216912114	0,13658306	1		
UI Czech Rep.	-0,199739333	0,0628717	0,12564364	1	
CZK/EUR	-0,014342281	0,59334271	0,19617951	0,237956567	1

Table 6.1. Czech Republic – Correlation between the Uncertainty Index (UI), unemployment rate, inflation, long-term government bond 10-year yield and the currency of the country over euro.

Moving on, we correlate our Uncertainty Index of Czech Republic (UICZ) with the existing Consumer Confidence Index (CCI CZ). Data for the EPU were not found. The correlation was found -0,037, a desirable but quite weak outcome. The value of the t-statistic and the p-value on the other hand, as seen in Table 6.2.2., pose the value of the correlation statistically insignificant.

-	UI CZ	CCI CZ
UI CZ	1	
CCI CZ	-0,0374822	1

Table 6.2.1. Czech Republic – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI CZ) and the Consumer Confidence Index (CCI CZ).

	t-statistic	p-value
CCI/UI	-0,500426767	0,617392768

Table 6.2.2. Czech Republic – T-statistic and p-value prices from correlations.

The Figure 6.2. compares the UICZ with UIGER. As seen and commented above, UICZ reports extreme spikes in the period of 2008-2010. However, it seems to comply after 2013 and move almost along with the Germany's Uncertainty Index. The correlation of 0,107 between the two variables is considered weak, while again it is reported as statistically insignificant. This is demonstrated in the Table 6.3.2.

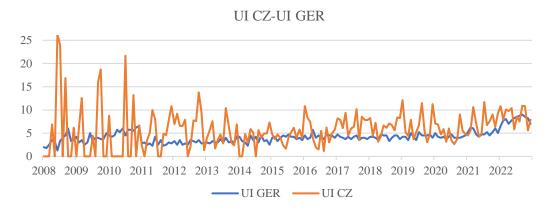


Figure 6.2. Czech Republic – Google Trends based Uncertainty Index of Czech Republic and Germany.

	UI GER	UI CZ
UI GER	1	
UI CZ	0,1071141	1

Table 6.3.1. Czech Republic – Correlation between Czech Republic's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI CZ/UI GER	1,437349837	0,152374164

Table 6.3.2. Czech Republic – T-statistic and p-value prices from correlations.

For Czech Republic, the IRF analysis was harnessed for five variables. These were the Inflation, the Uncertainty Index itself, the CZK/EUR currency, the long-term government bond yield 10 years (LTGBY10Y) and the Unemploymentrate of the country. The stationarity tests Augmented Dickey Fuller and Phillips Perron were run on the variables to test for any existing unit-root. It was found that Unemploymentrate, LTGBY10Y and CZK/EUR were containing a unit-root. The new stationary versions of the variable were dUnemplrate, dLTGBY10Y and DCZK/EUR. According to tables 6.4., 6.5. and 6.6. in the appendix, the optimal lags for the VAR model were 4. Now, regarding the one-standard deviation impulse on UICZ to the variables we obtained the following figure. It appears that the effect of UICZ on the currency of the country is minor. Also, we observe that both dLTBGY10Y and dUnemplrate follow an identical path during the twelve periods in concern. For the Inflation of the country, it is persistent on its spikes until it converges to zero at around the tenth period. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 6.7. in the appendix.

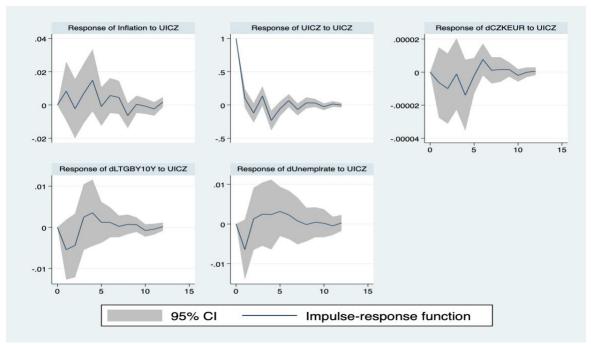


Figure 6.3.1. Czech Republic – Impulse Response Functions to a UICZ shock. Sample: 2008M1 – 2022M12. VAR (4) estimated with an exogenous variable (UIGER). 95% confidence interval.

The figure in the next page is a dynamic-multiplier function was used that measures the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. We observe that CZ Inflation responds more clearly to an UIGER shock that o an UICZ one. The effect of UIGER to the currency of the country is almost as minor as previously, with the only difference of it remaining positive throughout the year in concern. The same applies to the CZ dLTGBY10Y, which started and remained positive before it converged to zero. UICZ's maximum price was recorded in the second period with 0,21% and another high of 0,19% in the fourth period. The Table 6.8. in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

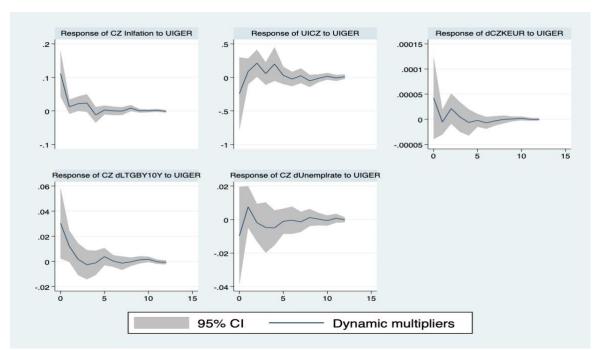


Figure 6.3.2. Czech Republic – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (4) estimated with an exogenous variable (UIGER). 95% confidence interval.

DENMARK*

In the case of Denmark, the variables inflation, unemployment rate, long-term government bond yield 10 years and our Uncertainty Index were analyzed. Denmark's unemployment rate reached its high in 2012 at almost 9%, and it took ten years for it to return to levels before the 2008 financial crisis. The correlations are weak, but are considered to be covetable.

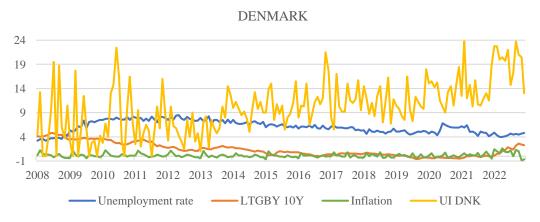


Figure 7.1. Denmark – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Denmark
Unemployment rate	1			
LTGBY 10Y	0,143112397	1		
Inflation	-0,127429593	0,090722941	1	
UI Denmark	-0,373124703	-0,38144277	0,16586882	1

Table 7.1. Denmark – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

For Denmark we only came across data for the CCI of the country and not for the EPU. We received a negative correlation of -0,309, which was also found to be statistically significant. For the Consumers Confidence Index, we expect a negative sign when correlated with any Uncertainty Index, as the individual's confidence gradually decreases in periods of high precariousness.

	UI DNK	CCI DNK
UI DNK	1	
CCI DNK	-0,3095253	1

Table 7.2.1. Denmark – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI DNK) and the Consumer Confidence Index (CCI DNK).

	t-statistic	p-value
CCI/UI	-4,34285444	2,35685E-05

Table 7.2.2. Denmark – T-statistic and p-value prices from correlations.

Regarding the Uncertainty Index of both Denmark and Germany, they note many differences. Denmark's UI is accompanied by continuous jumps, with the highest being first in 2010 and then in 2021-2022. The 2010 spike, could be due to the fact that on the sixth months of that year Denmark reported the highest prices for food and non-alcoholic drinks in the European Union, according to the latest survey from Eurostat. The 2021-2022 jump on the other hand, could be the aftermath of the COVID19 epidemic crisis. The correlation is considered strong at 0,554, and it is statistically significant.

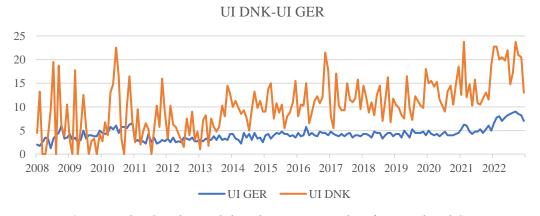


Figure 7.2. Denmark – Google Trends based Uncertainty Index of Denmark and Germany.

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	UI GER	UI DNK
UI GER	1	
UI DNK	0,55462418	1

Table 7.3.1. Denmark – Correlation between Denmark's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI DNK/UI GER	8,8926823	6,57932E-16

Table 7.3.2. Denmark – T-statistic and p-value prices from correlations.

Figure 7.3.1. presents the first IRF graphs for Denmark. Again, the tests Augmented Dickey Fuller and Phillips Perron were harnessed for stationarity. It was found that two of the variables contained a unit-root, Unemploymentrate and LTGBY10Y. To convert them to stationary variables we took their first differences, creating dUnemplrate and dLTGBY10Y. Regarding the optimal lags needed for conducting the VAR model for Denmark, the tables 7.4., 7.5. and 7.6. showed 4 lags. Inflation while starting off negative managed to come back and move around zero before it died out. The UIDNK response to UIDNK remained positive during the periods. The dUnemplrate persisted on turning negative up until the eighth period, then converging to zero. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 7.7. in the appendix.

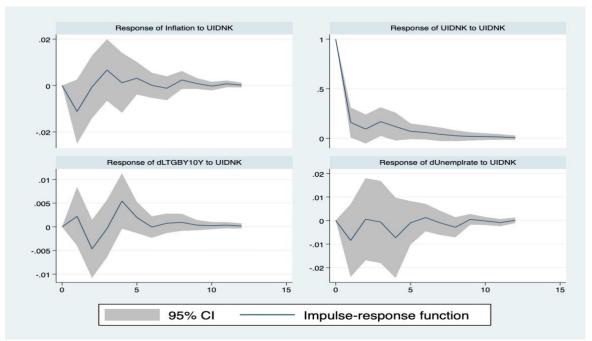


Figure 7.3.1. Denmark—Impulse Response Functions to a UIDNK shock. Sample: 2008M1 – 2022M12. VAR (4) estimated with an exogenous variable (UIGER). 95% confidence interval.

The following figure presents a dynamic-multiplier function was used that measures the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. UIDNK holds a positive response in a UIGER one-standard deviation impulse until the end of the periods in concern, remaining above 0,15% till the fourth period. Both DNK Inflation and dLTGBY10Y turn slightly negative in the first and second period respectively, for them to converge to zero soon after. The Table 7.8. in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

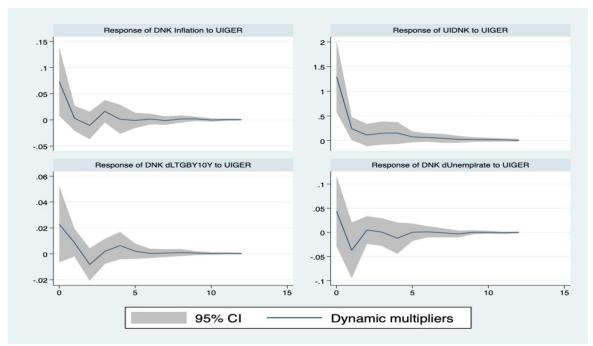


Figure 7.3.2. Denmark – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (4) estimated with an exogenous variable (UIGER). 95% confidence interval.

ESTONIA

For Estonia, data only for inflation and unemployment rate were found. Estonia constitutes the second and lest country that the variable long-term government bond yield 10 years was not examined and presented in this study. It is of note that Estonia entered the Eurozone in January 2011. The kroon (EEK) was the official currency of Estonia for two periods in history: 1928–1940 and 1992–2011. Its former currency over the euro was not examined in the research, as the analysis would be only for three years, considering our time

horizon is from 2008 to 2022. Nonetheless, the adoption of the euro was captured in the Uncertainty Index of Estonia, as the transition from one currency to another would probably have individuals looking up the terms this index was initially constructed by – "minimum wage", "home price", etc. The unemployment rate reached its high at 20% in 2010, and gradually reached its 2008 levels by 2015. The correlation between inflation and unemployment rate is very weak and negative, as is the correlation between UI Estonia and unemployment rate.

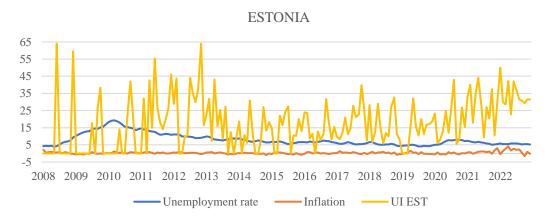


Figure 8.1. Estonia – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	Inflation	UI Estonia
Unemployment rate	1		
Inflation	-0,085318874	1	
UI Estonia	-0,121391905	0,132224462	1

Table 8.1. Estonia – Correlation between the Uncertainty Index (UI), unemployment rate and inflation

Data for the CCI of Estonia were found, in contrast to data for EPU. The correlation between the two indices in negative, -0,190, and weak. The p-value of the t-statistic is slightly over 0,01, posing the correlation statistically significant in the 5% confidence level.

	UI EST	CCI EST
UI EST	1	
CCI EST	-0,1903611	1

Table 8.2.1. Estonia – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI EST) and the Consumer Confidence Index (CCI EST).

	t-statistic	p-value
CCI/UI	-2,587040602	0,010478691

Table 8.2.2. Estonia – T-statistic and p-value prices from correlations.

As forementioned, UIEST's jumps in 2011-2013 were due to the country's adoption of the euro. Unlike Estonia, Germany's Uncertainty Index appear to move smoother during the fifteen-year time horizon. The correlation between the variables is weak and statistically significant.

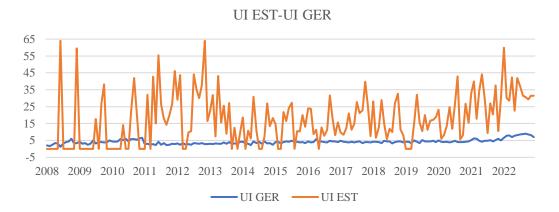


Figure 8.2. Estonia – Google Trends based Uncertainty Index of Estonia and Germany.

	UI GER	UI EST
UI GER	1	
UI EST	0,15413797	1

Table 8.3.1. Estonia - Correlation between Estonia's and Germany's Uncertainty Indices

	t-statistic	p-value
UI EST/UI GER	2,081330261	0,038834755

Table 8.3.2. Estonia – T-statistic and p-value prices from correlations.

For Estonia Figure 8.3.1. in the next page presents the first IRF graphs for examination. The stationarity test Augmented Dickey Fuller and Phillips Perron were run for all variables, Inflation, Unemploymentrate and the Uncertainty Index of Estonia. The Unemployment rate was found containing a unit-root. Taking the first differences we created a new variable, dUnemplrate. Based on the tables 8.4., 8.5. and 8.6. in the appendix, the optimal number of lags for the conduction of the VAR model was 2. It appears that the reaction path followed by Inflation is mirrored to the dUnemplrate's graph, with both variables starting at 0%. Regarding the response of UIEST to UIEST, it converges to zero just after the fifth period. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 8.7. in the appendix.

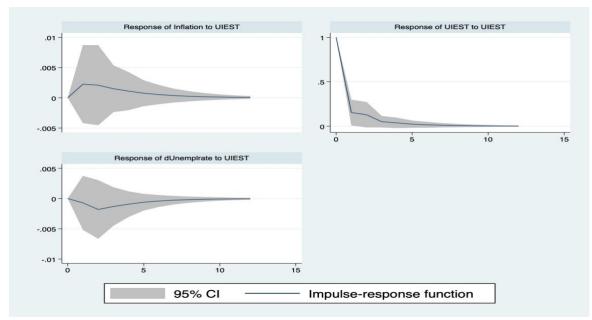


Figure 8.3.1. Estonia—Impulse Response Functions to a UIEST shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

Regarding the second IRF graphs figure, it is a dynamic-multiplier function was used that measures the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. For the response of UIEST to UIGER, we observe that it moves close to zero for the majority of the periods, recording a jump in the second period at 0,32%. Unlike Inflation's previous response to UIEST, EST Inflation's response to UIGER begins at 0,06%. EST dUnemplrate remained negative for all the whole year in concern, like seen in the previous analysis. The Table 8.8. in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

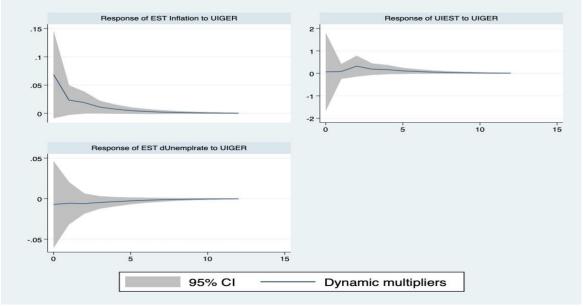


Figure 8.3.2. Estonia – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

FINLAND

The following graph is a depiction of Finland's inflation, unemployment rate, long-term government bond yield 10 years and our constructed Uncertainty Index of the country. The Uncertainty Index reaches its maximum price in the 2008 financial crisis, while 2021-2022 marks a period of increase uncertainty as well, the aftermath of COVID19 crisis. Unemployment rate appears to be steady for a long period, reaching its 2008 level just over a decade later. All the correlations are reported negative and weak in Table 9.1.

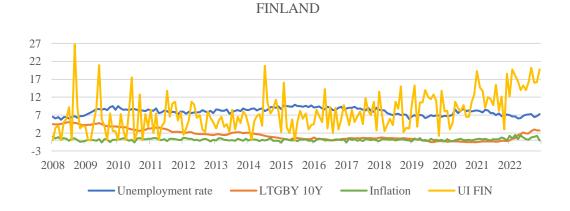


Figure 9.1. Finland – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Finland
Unemployment rate	1			
LTGBY 10Y	-0,133259754	1		
Inflation	-0,260016808	0,09665814	1	
UI Finland	-0,233854465	-0,215197104	0,19575778	1

Table 9.1. Finland – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

For Finland, again, the Consumer Confidence Index was found, with no data for the Economic Policy Uncertainty Index. A negative correlation is the covetable outcome in this case. The correlation of -0,190 is statistically significant at the 5% confidence level.

	UI FIN	CCI FIN
UI FIN	1	
CCI FIN	-0,1905386	1

Table 9.2.1. Finland – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI FIN) and the Consumer Confidence Index (CCI FIN).

	t-statistic	p-value
CCI/UI	-2,589542738	0,010405644

Table 9.2.2. Finland – T-statistic and p-value prices from correlations

The Figure 7.2. presents the comparison of the two Uncertainty Indices between the two countries. The correlation of UIFIN and UIGER is assumed to be strong at 0,475, Nonetheless, the p-value of the t-statistic is equal to 1, posing the value of the correlation statistically insignificant.

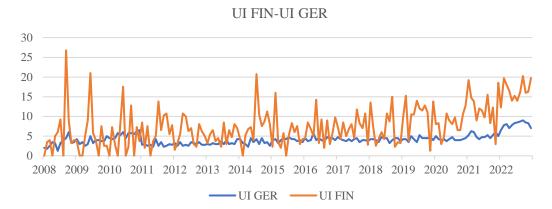


Figure 9.2. Finland – Google Trends based Uncertainty Index of Finland and Germany.

	UI GER	UI FIN
UI GER	1	
UI FIN	0,47522197	1

Table 9.3.1. Finland – Correlation between Finland's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI FIN/UI GER	7,205929379	1

Table 9.3.2. Finland – T-statistic and p-value prices from correlations.

The tests Augmented Dickey Fuller and Phillips Perron were harnessed to test for the stationarity of the variables. For Finland only the LTGBY10Y was found to contain a unit-root. We took the first differences of the variable, creating a new variable named dLTGBY10Y. The tables 9.4., 9.5. and 9.6. in the appendix suggested a number of optimal values for the VAR model of Finland equal to 2. The following IRF graphs concern the response of the four variables to a UIFIN one-standard deviation shock. It is of note the negative response of both Unemplrate and dLTGBY10Y. However, the latter has a much less reaction in terms of magnitude, and it manages to return and move around zero by the fourth period. In contrast to Unemplrate that remain negative for all the twelve periods. On the other hand, the UIFIN response to UIFIN quickly dies out after the fifth period. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 9.7. in the appendix.

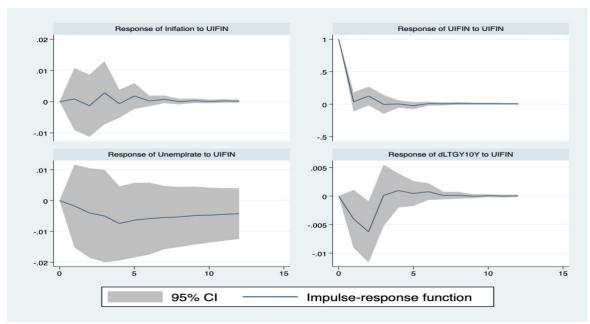


Figure 9.3.1. Finland—Impulse Response Functions to a UIFIN shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

The next set of IRF graphs concern the dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. It is clear that also in this case the Unemplrate remained under zero over the whole period. Unlike dLTGBY10Y that only recorded a negative value twice. FIN Inflation on the other hand, recorded positive values with its maximum value at 0,017% in the second period. Lastly, the response of UIFIN to UIGEIR after falling under zero in the first period it rebounded to 0,19% after two periods. The Table 9.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

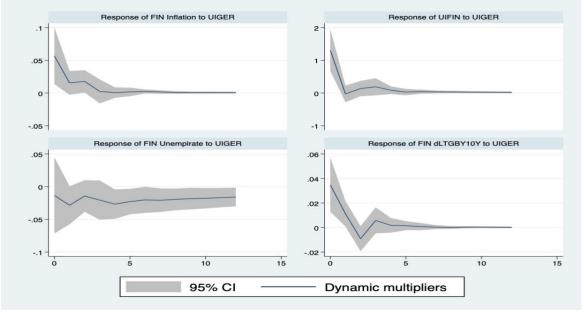


Figure 9.3.2. Finland – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

FRANCE

For France the following figure depicts the economic indicators and our Uncertainty Index of the country. Unlike the countries examined till now, France is the only country that its unemployment rate remained higher than its Uncertainty Index for the whole period of fifteen years in concern. It is also important to notice that is seems the aftermath of COVID19 epidemic crisis was more perceptible in the country's uncertainty. The correlation between UIFRA and unemployment rate is strong at -0,463, while quite weak and almost zero between LTGBY10Y at -0,006.

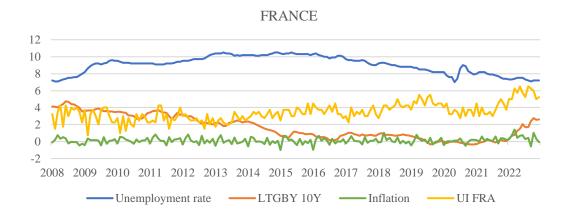


Figure 10.1. France – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI France
Unemployment rate	1			
LTGBY 10Y	-0,006390864	1		
Inflation	-0,186177492	0,013406709	1	
UI France	-0,463433287	-0,379678472	0,169435258	1

Table 10.1. France – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

France is one of the nine European countries that Economic Policy Uncertainty index (EPU), by Baker, Bloom & Davis (2016) has data for. Data for CCI were also available for France. While the correlation between EPU FRA and UI FRA is a desirable outcome at 0,222, the positive correlation between CCI FRA and UI FRA is not covetable. It appears though in Table 9.2.1., that the t-statistic an p-value pose the correlation CCI FRA/UI FRA statistically insignificant, and EPU FRA/UI FRA statistically significant.

	UI FRA	CCI FRA	EPU FRA
UI FRA	1		
CCI FRA	0,10285576	1	
EPU FRA	0,22254198	0,05580796	1

Table 10.2.1. Finland – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI FIN), Economic Policy Uncertainty index (EPU) and the Consumer Confidence Index (CCI FIN).

	t-statistic	p-value
CCI/UI	1,379583955	0,169445408
EPU/UI	3,045450743	0,002676319
CCI/EPU	0,74573333	0,456812169

Table 10.2.2. France – T-statistic and p-value prices from correlations

The following figure depicts the Uncertainty Indices of France and Germany. The two indices follow almost the exact same path throughout the fifteen years, with two exceptions in 2010-2011 and 2022, an expected fact as these countries constitute two of the biggest economies across Europe. The correlation of 0,538is statistically significant at the 1% confidence level.

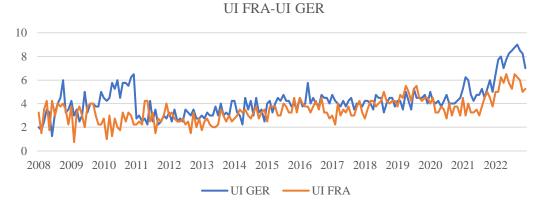


Figure 10.2. France – Google Trends based Uncertainty Index of France and Germany.

	UI GER	UI FRA
UI GER	1	
UI FRA	0,53805842	1

Table 10.3.1. France – Correlation between France's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI FRA/UI GER	8,516467387	6,73576E-15

Table 10.3.2. France – T-statistic and p-value prices from correlations.

The first IRF graphs concern the response of the variables Inflation, Unemploymentrate, LTGBY10Y and UIFRA to one-standard deviation shock in UIFRA. Again, the tests Augmented Dickey Fuller and Phillips Perron were harnessed for stationarity. It was found that two of the variables contained a unit-root, Unemploymentrate and LTGBY10Y. The new stationary variables were dUnemplrate and dLTGBY10Y. According to the Varsoc, Varstable and Varlmar tables in appendix (10.4, 10.5. and 10.6.), the number of optimal lags was 2. Thereafter we proceeded to the conduction of the VAR model for France. It is observed that dUnemplrate and dLTGBY10Y tend to move similarly to a UIFRA's shock. Inflation turns slightly positive in the beginning, turning negative just after the second period not managing to move above zero for the rest of the periods. UIFRA seems to insist on staying quite high for the first five periods after a UIFRA shock, in contrast to the other European countries analyzed till now that record a sharp fall soon after the first or second period. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 10.7. in the appendix.

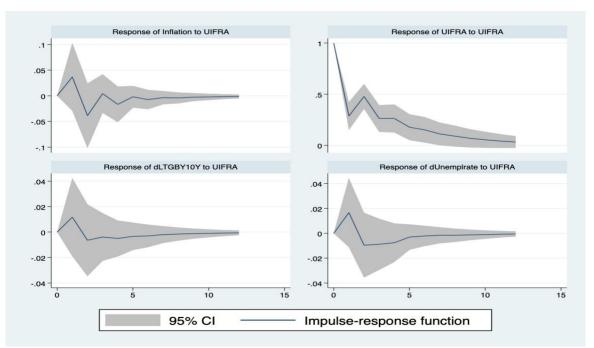


Figure 10.3.1. France–Impulse Response Functions to a UIFRA shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

The second IRF graphs indicate the dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. FRA dUnemplrate managed to move below zero for all the periods in concern. The same applied to the dLTGBY10Y, which only recorded positive values the first two periods. It is important to note that for the first time the impact of UIGER is less than that of another Uncertainty Index, UIFRA in our case. The response of UIFRA to UIGER is almost ten times less than its response to UIFRA. This is due to the fact France being one of the greatest economies amongst the European countries. The Table 10.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes

or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

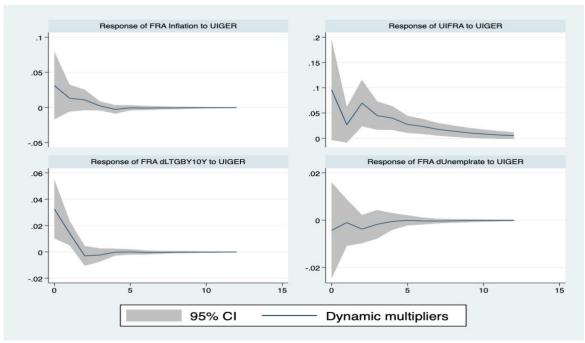


Figure 10.3.2. France – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

GERMANY

Germany's economic indicators and Uncertainty Index is pictured in the following figure. The unemployment rate marked its highest level at 8% in the beginning of 2008, and although the COVID19 epidemic crisis and the Russian invasion to Ukraine it declined reaching the level of just over 3% by the end of 2022. This is an interesting fact, given that a couple of precariousness periods existed in the examined time horizon and some would expect the exact opposite outcome. The correlations of the variables line with the economic theory. A very strong correlation of 0,894 is reported between unemployment rate and the long-term government bond yield 10 years, and a negative correlation of -0,121 between unemployment rate and inflation. As forementioned in the beginning of the study, an increase in unemployment rate tends to decrease inflation and increase the high-yield bond spreads.

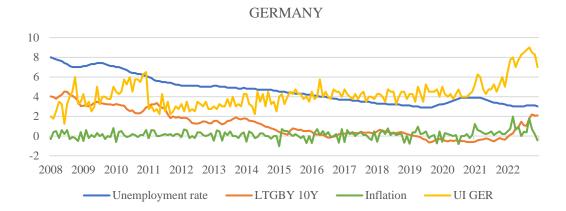


Figure 11.1. Germany – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Germany
Unemployment rate	1			
LTGBY 10Y	0,894308655	1		
Inflation	-0,121393722	-0,04426441	1	
UI Germany	-0,383694292	-0,217736884	0,25633993	1

Table 11.1. Germany – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

Germany's existing uncertainty indices were both available online. The correlations are as expected, negative and moderate for the CCI GER/UI GER and positive and strong for EPU GER/UIGER. As seen in Table 11.2.2., all the values of the correlations are statistically significant with p-values well less than 0,01.

	UI GER	CCI GER	EPU GER
UI GER	1		
CCI GER	-0,3808019	1	
EPU GER	0,68906979	-0,5001428	1

Table 11.2.1. Germany – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI GER), the Consumer Confidence Index (CCI GER) and the Economic Policy Uncertainty index (EPU GER).

	t-statistic	p-value
CCI/UI	-5,4945047	1,33883E-07
EPU/UI	12,68580277	1,10373E-26
CCI/EPU	-7,705747471	8,77322E-13

Table 11.2.2. Germany – T-statistic and p-value prices from correlations.

For Germany we only have one set of IRF graphs, concerning the impulse on the Uncertainty Index of the country to the economic indicators and the Uncertainty Index itself, as it is the exogenous variable used in the Dynamic-Multiplier Functions, as already forementioned. The response of UIGER to a one-standard deviation of UIGER is of great importance as it insists on staying well above 0,20% over the period in analysis. All the economic indicators show a positive reaction to the UIGER shock, with the response of dUnemplrate being the least significant. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 11.7. in the appendix.

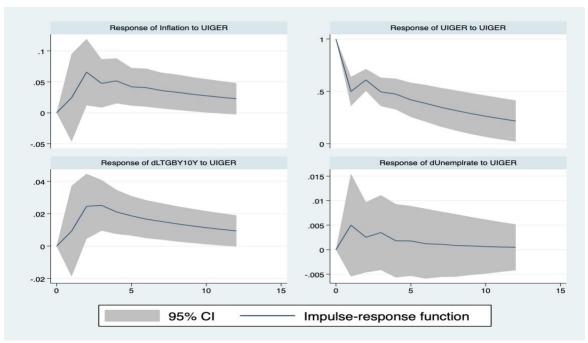


Figure 11.3.1. France– Impulse Response Functions to a UIGER shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

GREECE

Regarding Greece's economic indicators, it is of concern the levels of unemployment rate the country reached by 2013. A 26% unemployment rate was reported that took almost a decade to half. It is also important to note the prodigious effect the 2008 financial crisis had on the country's uncertainty, in contrast to the COVID19 epidemic crisis. Such fact could denote the public's healed confidence towards the government after many years in unreliability. The correlations of the inflation and the long-term government bond yield 10 years seem to align with theory, providing the appropriate signs,

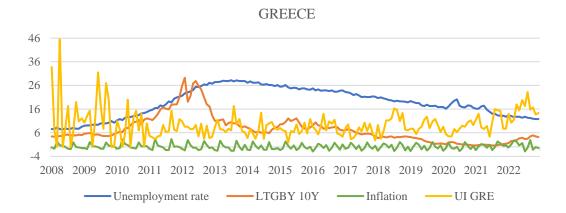


Figure 12.1. Greece – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Greece
Unemployment rate	1			
LTGBY 10Y	0,420297043	1		
Inflation	-0,1250371	-0,052882408	1	
UI Greece	-0,326040337	-0,17805485	-0,005446191	1

Table 12.1. Greece – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

The correlation between our Uncertainty Index and the existing uncertainty indices is presented below. Greece had available data for both CCI and EPU indices. Table 12.2.2. reports the t-statistics and p-values of the correlations. The CCI/UI is statistically significant in contrast to the EPU/UI. The correlation of 0,152 may be weak but it stands right. A positive correlation, although it does not comply with the economic theory, could indicate that individuals will consume less and save more, as in some economies there is no security in the sector of insurances, fact that motivates people to continue to consume.

	UI GRC	CCI GRC	EPU GRC
UI GRC	1		
CCI GRC	0,15205435	1	
EPU GRC	-0,0903901	-0,2117684	1

Table 12.2.1. Greece – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI GRE), the Consumer Confidence Index (CCI GRE) and the Economic Policy Uncertainty index (EPU GRE).

	t-statistic	p-value
CCI/UI	2,052524498	0,041582465
EPU/UI	-1,210911222	0,227534737
CCI/EPU	-2,89090931	0,004319737

Table 12.2.2. Greece – T-statistic and p-value prices from correlations.

Greece's Uncertainty Index appears to closely follow the route of the Germany's Uncertainty Index. Despite the first three years of analysis, the rest of the years Greece's UI paradoxical fluctuates very close to Germany's UI. The correlation of 0,258 is considered weak and it is statistically significant in the 1% confidence level.

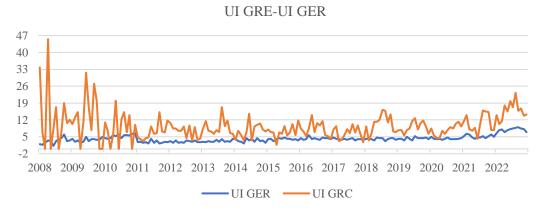


Figure 12.2. Greece – Google Trends based Uncertainty Index of Greece and Germany.

	UI GER	UI GRC
UI GER	1	
UI GRC	0,25806665	1

Table 12.3.1. Greece - Correlation between Greece's and Germany's Uncertainty Indices

	t-statistic	p-value
UI GRC/UI GER	3,56375314	0,000469391

Table 12.2.2. Greece—T-statistic and p-value prices from correlations.

For Greece Figure 12.3.1. in the next page presents the first IRF graphs for examination. The stationarity test Augmented Dickey Fuller and Phillips Perron were run for all variables, Inflation, Unemploymentrate, LTGBY10Y and the Uncertainty Index of Greece. The Unemploymentrate and LTGBY10Y were found containing a unit-root. Taking the first differences we created new variables, dUnemplrate and dLTGBY10Y. Based on the tables 12.4., 12.5. and 12.6. in the appendix, the optimal number of lags for the conduction of the VAR model were 9. It is observed that all variables are very volatile, providing equally positive and negative values. Regarding Inflation, it records its maximum value of 0,02% sometime later around the ninth period. Furthermore, Greece constitutes the first country its UI response to UI shock turns negative so early in the time horizon of a year. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 12.7. in the appendix.

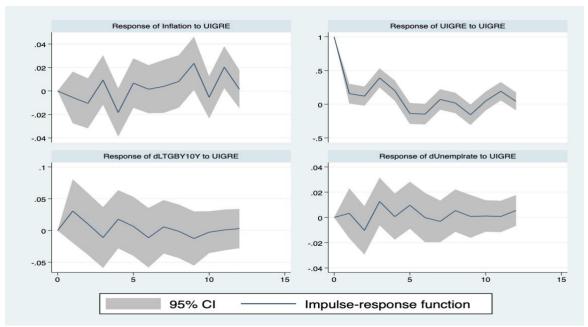


Figure 12.3.1. Greece– Impulse Response Functions to a UIGRE shock. Sample: 2008M1 – 2022M12. VAR (9) estimated with an exogenous variable (UIGER). 95% confidence interval.

The following IRF graphs concern the dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. The variables seem to move around zero for almost the whole twelve periods. Again, Greece is the first country that its UI falls below zero over time after a one unit increase in UIGER. The Table 12.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

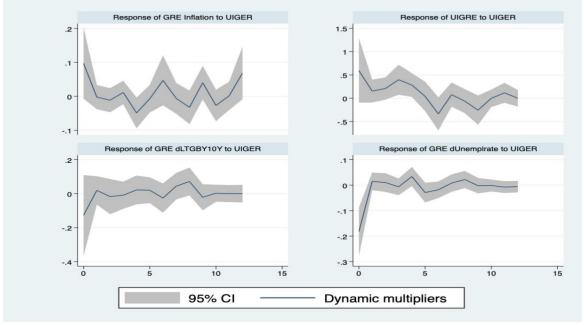


Figure 12.3.2. Greece – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

HUNGARY*

Concerning Hungary's following graph, the economic indicators and our Uncertainty Index for the country is depicted. Also, because Hungary is not included in the Eurozone, the country's official currency was examined. The forint (HUF) has been the currency of Hungary since 1946. In today's data one forint equals 0,0026 Euros. The correlations of the economic indicators seam to follow the theory. Unlike the economic indicators, the HUF/EUR currency was expected to provide a negative sign in the correlation. In contrast, it is reported a strong and positive at 0,714.

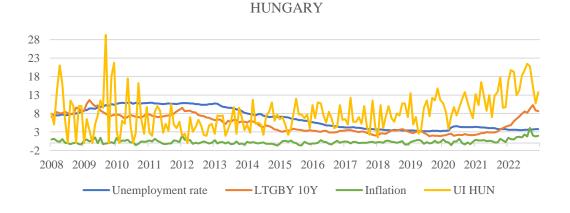


Figure 13.1. Hungary – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Hungary	HUF/EUR
Unemployment rate	1				
LTGBY 10Y	0,719561703	1			
Inflation	-0,153056496	0,299237586	1		
UI Hungary	-0,326990244	-0,048983564	0,287771322	1	
HUF/EUR	0,714493618	0,479369534	-0,33871159	-0,32734428	1

Table 13.1. Hungary – Correlation between the Uncertainty Index (UI), unemployment rate, inflation, long-term government bond 10-year yield and the currency of the country over euro.

For Hungary only the Consumers Confidence Index was available online. The tables below report the negative correlation between our Uncertainty Index of Hungary and the CCI. It is also reported than the correlation is statistically insignificant with t-statistic in absolute value less than 1,96 and a p-value greater than 0,05.

	UI HUN	CCI HUN
UI HUN	1	
CCI HUN	-0,008934678	1

Table 13.2.1. Hungary – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI HUN) and the Consumer Confidence Index (CCI HUN).

	t-statistic	p-value
CCI/UI	-0,119208231	0,905244816

Table 13.2.2. Hungary – T-statistic and p-value prices from correlations.

Hungary's Uncertainty Index seem to behave in a completely different way than the Germany's one. UIHUN is characterized with extreme fluctuations and quick jumps throughout the whole time horizon for analysis. Hungary's Uncertainty Index reaction to the aftermath of crises seems to hold for a couple of years after each crisis took place. We notice a strong and statistically significant correlation of 0,480 between UIHUN and GER, in Tables 13.3.1 and 13.3.2.

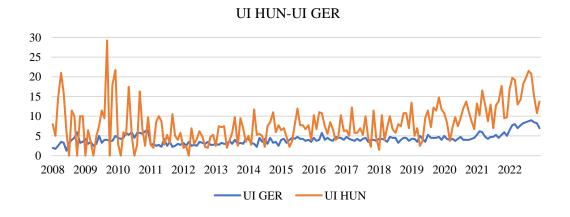


Figure 13.2. Hungary–Google Trends based Uncertainty Index of Hungary and Germany.

	UI GER	UI HUN
UI GER	1	
UI HUN	0,480661885	1

Table 13.3.1. Hungary – Correlation between Hungary's and Germany's Uncertainty Indices

	t-statistic	p-value
UI HUN/UI GER	7,313017956	8,55519E-12

Table 13.3.2. Hungary – T-statistic and p-value prices from correlations.

The Augmented Dickey Fuller and Phillips Perron stationarity tests were run on all five variables of Hungary. It was found that three of them, Unemploymentrate, LTGBY10Y and HUF/EUR currency, contained a unit-root. We took the first differences of the variables and created the dHUF/EUR, dUnemplrate and dLTGBY10Y. Based on the tables 13.4., 13.5. and 13.6. in the appendix, the optimal lags were found to be 3 for the VAR model of Hungary. The response of dHUF/EUR to UIHUN is of minor significance. Now, Inflation and LTGBY10Y seem to move in the same pattern, both slightly jumping in the beginning before they converge to zero. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 13.7. in the appendix.

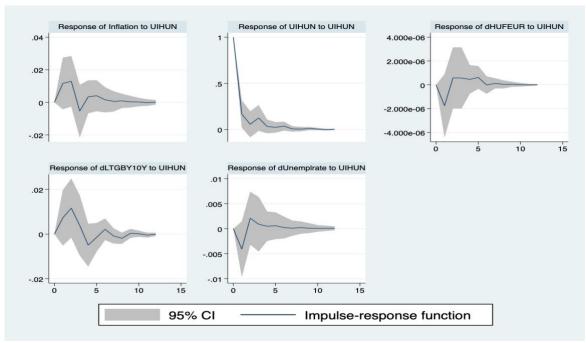


Figure 13.3.1. Hungary—Impulse Response Functions to a UIHUN shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

Regarding the second IRF graphs figure, a dynamic-multiplier function was used that measures the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. The response of the HUN Inflation to UIGER is of great interest. It appears that Hungary's Inflation is affected more by the UI of Germany's rather than its own UI. HUN dLTGBY10Y record a sharp fall in the second period, moving from 0,06% to -0,004% in the next period. As for the UIHUN response to UIGER, its maximum value is recorded in the fourth period with 0,16%. The Table 13.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

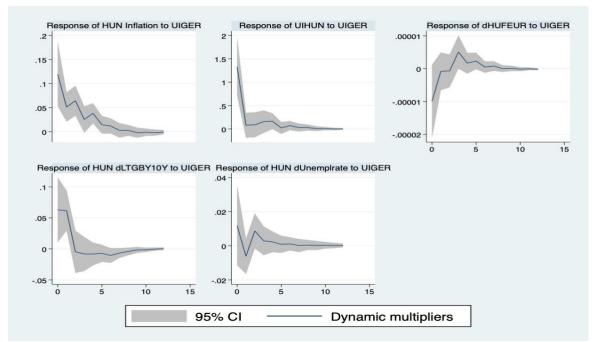


Figure 13.3.2. Hungary – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

IRELAND

For Ireland the Figure 14.1. depicts the economic indicators and the constructed Uncertainty Index. Ireland's unemployment rate marked its highest price at around 15% in 2010 and it did not decrease until after 2013, reaching its 2008 levels by 2018. The signs of the correlations in the Table 14.1. appear to comply with the economic theory.

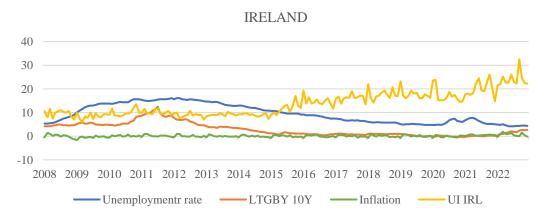


Figure 14.1. Ireland – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemploymentr rate	LTGBY 10Y	Inflation	UI Ireland
Unemploymentr rate	1			
LTGBY 10Y	0,786847454	1		
Inflation	-0,149745054	-0,04827397	1	
UI Ireland	-0,763712695	-0,598559992	0,235645325	1

Table 14.1. Ireland – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

Ireland is one of the nine European countries that data for Economic Policy Uncertainty (EPU), by Baker, Bloom & Davis (2016), exist. The correlation between CCI IRL and UI IRL is positive and statistically significant at 0,397. Between EPU IRL and UI IRL it is positive and statistically significant again, at 0,508. As forementioned, the desirable sign for CCI/UI is negative, but some countries provide a positive sign maybe due to the fact that there is no significant security in the country's insurance sector and individuals prefer to consume rather than save money.

	UI IRL	CCI IRL	EPU IRL
UI IRL	1		
CCI IRL	0,39730098	1	
EPU IRL	0,5089474	-0,035703	1

Table 14.2.1. Ireland – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI IRL), the Consumer Confidence Index (CCI IRL) and the Economic Policy Uncertainty index (EPU IRL).

	t-statistic	p-value
CCI/UI	5,776096057	3,3474E-08
EPU/UI	7,888271462	2,98666E-13
CCI/EPU	-0,476641189	0,634202247

Table 14.2.2. Ireland – T-statistic and p-value prices from correlations.

The graph shows the Uncertainty Indices of Ireland and Germany. It is clear that the UIIRL remained the whole analyzed period above the UIGER. Just after 2015 UIIRL almost doubled, while by the end of 2022 it had tripled its 2008 level price. Unlike Ireland's, Germany's Uncertainty Index double only for a short-period in 2010 and 2022. The p-value in Table 14.3.2 poses the correlation of 0,651 statistically significant.

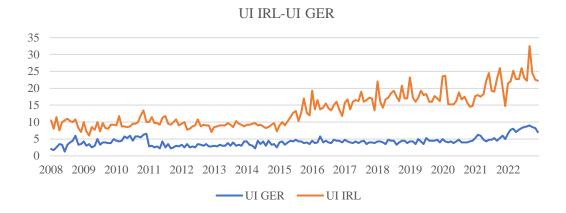


Figure 14.2. Ireland – Google Trends based Uncertainty Index of Ireland and Germany.

	UI GER	UI IRL
UI GER	1	
UI IRL	0,65194655	1

Table 14.3.1. Ireland – Correlation between Ireland's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI IRL/UI GER	11,47099328	3,68837E-23

Table 14.3.2. Ireland – T-statistic and p-value prices from correlations.

Figure 14.3.1. in the next page presents the first IRF graphs for Ireland. Again, the tests Augmented Dickey Fuller and Phillips Perron were harnessed for stationarity. It was found that three of the variables contained a unit-root, Unemploymentrate, UIIRL and LTGBY10Y. To convert them to stationary variables we took their first differences, creating dUnemplrate, dUIIRL and dLTGBY10Y. Regarding the optimal lags needed for conducting the VAR model for Ireland, the tables 14.4., 14.5. and 14.6. showed 7 lags. All the graphs depict quite volatile variables to a one-standard deviation of dUIIRL. They tend to move around 0, some with bigger spikes and some with smaller. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 14.7. in the appendix.

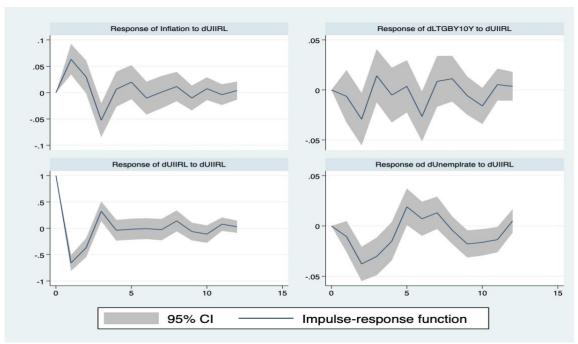


Figure 14.3.1. Ireland—Impulse Response Functions to a UIIRL shock. Sample: 2008M1 – 2022M12. VAR (7) estimated with an exogenous variable (UIGER). 95% confidence interval.

Concerning the second IRF graphs, it is a dynamic-multiplier function used to measures the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. All variables provided equal positive and negative values, except the dLTGBY10Y that the positive values prevailed, with its higher levels being in the first, third and seventh period. The Table 14.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

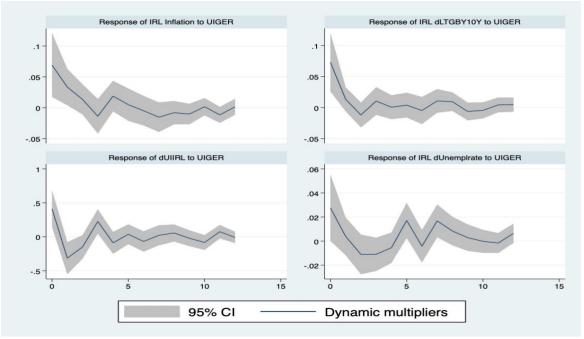


Figure 14.3.2. Ireland – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (7) estimated with an exogenous variable (UIGER). 95% confidence interval.

ITALY

Italy is one of the few countries that recorded an Uncertainty Index level less than that of their unemployment rate. Italy's unemployment rate reached 13% by 2014 and returned to its 2008 levels for a short period in 2020 and again in 2022. The Uncertainty Index did not record extreme spikes, like other European countries, but it rather fluctuated around 0 and 9 price level. The correlations of the economic indicators and the Uncertainty Index are presented in Table 15.1.

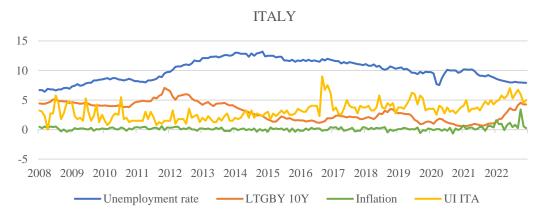


Figure 15.1. Italy – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Italy
Unemployment rate	1			
LTGBY 10Y	-0,302728159	1		
Inflation	-0,279655512	0,11117023	1	
UI Italy	-0,10675958	-0,440526252	0,155465839	1

Table 15.1. Italy – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and longterm government bond 10-year yield.

Italy's data for existing uncertainty indices were available for EPU and CCI. The results in Table 15.2.2. show a statistically significant correlation between CCI ITA and UI ITA, while a statistically insignificant correlation between EPU ITA and UI ITA.

	UI ITA	CCI ITA	EPU ITA
UI ITA	1		
CCI ITA	0,30312711	1	
EPU ITA	-0,0917678	-0,3688628	1

Table 15.2.1. Italy – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI ITA), the Consumer Confidence Index (CCI ITA) and the Economic Policy Uncertainty index (EPU ITA).

	t-statistic	p-value
CCI/UI	4,243894768	3,52972E-05
EPU/UI	-1,229522926	0,220498535
CCI/EPU	-5,294598958	3,48443E-07

Table 15.2.2. Italy – T-statistic and p-value prices from correlations.

Italy is again one of the few countries which their Uncertainty Index managed to almost perfectly mimic the Germany's Uncertainty Index. A small spike in 2017 for UI ITA might have been due to the series of earthquakes that occurred in the country that year. The correlation of the variables, 0,517, is assumed to be strong and statistically significant at 1% confidence level.

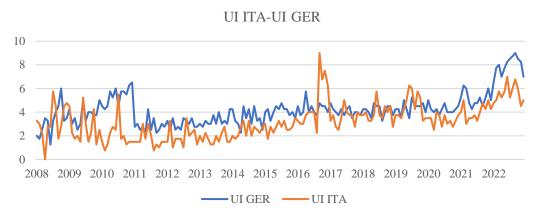


Figure 15.2. Italy – Google Trends based Uncertainty Index of Italy and Germany.

	UI GER	UI ITA
UI GER	1	
UI ITA	0,51783404	1

Table 15.3.1. Italy – Correlation between Italy's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI ITA/UI GER	8,075886092	9,75054E-14

Table 15.3.2. Italy – T-statistic and p-value prices from correlations.

The IRF graphs in the next page refer to the responses of the economic indicators and the Uncertainty Index to an UIITA impulse. The Augmented Dickey Fuller and Phillips Perron tests were harnessed to test for stationarity. The variables Unemploymentrate and LGTBY10Y were found to contain a unit-root. We took the first differences and created the dUnemplrate and dLTGBY10Y stationary variables. Based on the tables 15.4., 15.5. and 15.6. in the appendix, the optimal lags were 2. Then, we conducted the VAR model for Italy. The IRF graphs show how the variables react to one UIITA standard deviation. It is clear that for

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Inflation, dLTGBY10Y and dUnemplrate the negative values prevail in the twelve months. Unlike UIITA which seemed to hold its price high for the first five months. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 15.7. in the appendix.

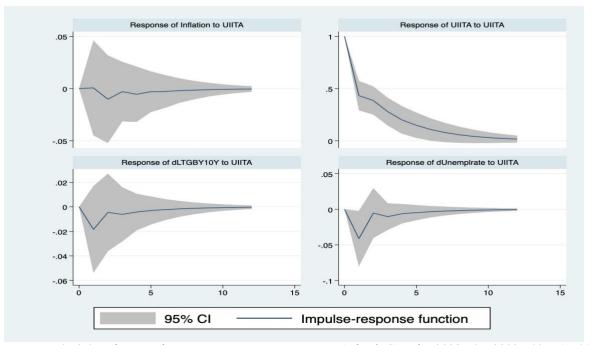


Figure 15.3.1. Italy—Impulse Response Functions to a UIITA shock. Sample: 2008M1 – 2022M12. VAR (7) estimated with an exogenous variable (UIGER). 95% confidence interval.

Regarding the second set of IRF graphs presented in the next page, it is a dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. All variables, except ITA dUnemplrate, begin positive and seem to create a smooth downward slope as a reaction to UIGER shocks, converging to zero by the fifth period. UIITA managed to remain below zero over the periods examined, with its lowest being at -0,002% in the fourth period. The Table 15.8 in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

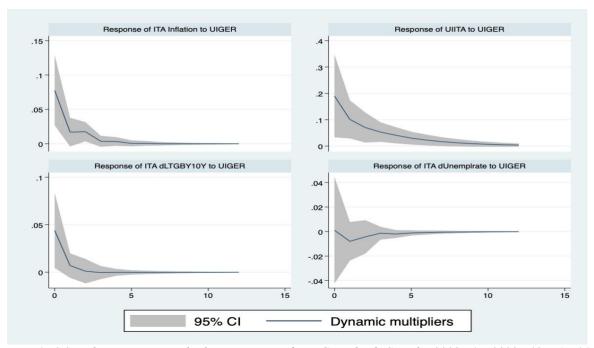


Figure 15.3.2. Italy – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (7) estimated with an exogenous variable (UIGER). 95% confidence interval.

LATVIA

Concerning Latvia, the inflation, the unemployment rate, the long-term government bond yield 10 years and the constructed Uncertainty Index are presented in Figure 16.1 and correlated in Table 16.1. Latvia's Uncertainty Index constitutes one of the most extremely fluctuated Uncertainty Indices amongst the European countries. The country's unemployment rate reached as high as 19% in 2010 and fall back to 8% in 2019. The signs of the correlations for the economic indicators comply with the theory, unlike the sign of UI Latvia.

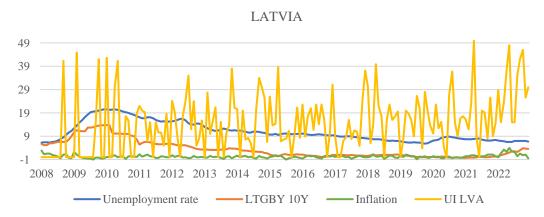


Figure 16.1. Latvia – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Latvia
Unemployment rate	1			
LTGBY 10Y	0,817369385	1		
Inflation	-0,274359957	-0,079016786	1	
UI Latvia	-0,10603962	-0,057153854	0,156342787	1

Table 16.1. Latvia – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

For Latvia only the Consumer Confidence Index was found online. On the one hand the negative correlation between the two variables, CCI LVA and UI LVA, is a covetable outcome. On the other hand, the t-statistic is less than 1,96 in absolute value and the p-value greater than 0,05, posing the correlation statistically insignificant.

	UI LVA	CCI LVA
UI LVA	1	
CCI LVA	-0,0341075	1

Table 16.2.1. Latvia – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI LVA) and the Consumer Confidence Index (CCI LVA).

	t-statistic	p-value
CCI/UI	-0,455315401	0,649437242

Table 16.2.2. Latvia – T-statistic and p-value prices from correlations.

The Figure 16.2. below depicts the Uncertainty Indices for both Latvia and Germany. It is clear from the graph that UI LVA behaves more aggressively and extreme than UI GER. It seems that UI LVA does not absorb the big spikes quickly, caused by worldwide crises, rather keeps the high level of uncertainty for a few months before it reverts back to its normal levels. The correlation between UI LVA and UI GER is at 0,206 and it is statistically significant at 1% confidence level.

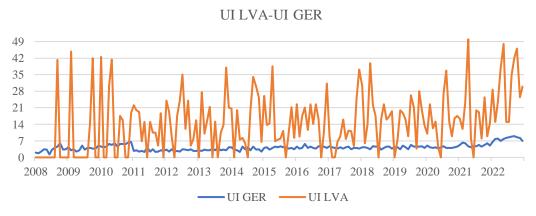


Figure 16.2. Latvia - Google Trends based Uncertainty Index of Latvia and Germany.

	UI GER	UI LVA
UI GER	1	
UI LVA	0,20612586	1

Table 16.3.1. Latvia – Correlation between Latvia's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI LVA/UI GER	2,810414243	0,005501907

Table 16.3.2. Latvia – T-statistic and p-value prices from correlations.

The Phillips Perron and Augmented Dickey Fuller stationarity tests were run on the four variables. A unit-root was found for the Unemploymentrate and the LTGBY10Y. By taking the first differences, two new stationary variables were created: dUnemplrate and dLTGBY10Y. The Varsoc, Varstable, and Varlmar were run, and the optimal number of lags was found to be 2 (see tables 16.4, 16.5, and 16.6 in the appendix). We then applied the VAR model to Romania. The IRF graphs show how the variables respond to a one-standard deviation of UILVA. All graphs present a minor impact of the UI of Latvia on the economic indicators and its Uncertainty Index. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 16.7. in the appendix.

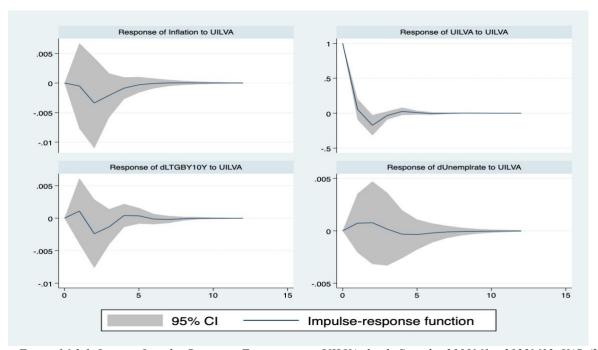


Figure 16.3.1. Latvia—Impulse Response Functions to a UILVA shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

The following figure is a dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. It is obvious that the UIGER has a greater impact on the country's economy than has the country's UI. A great positive response is given of LVA's

Inflation, which manages to stay positive throughout the whole period in concern. Positive values were also obtained from UILVA. The variable recorded a high of 0,45% in the first period, just before a sharp drop to its lowest value of -0,26%. LVA dLTGBY10Y and LVA dUnemplrate started positive and negative respectively in the first periods and then converged to zero. The Table 16.8 in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

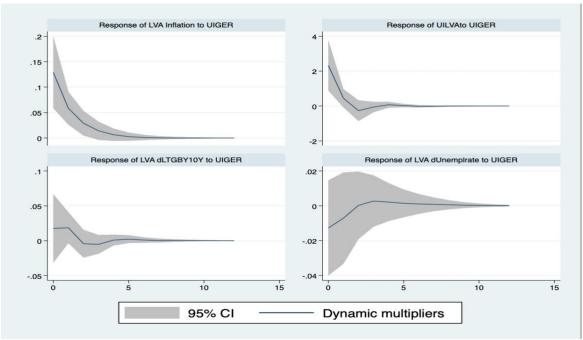


Figure 16.3.2. Latvia – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

LITHUANIA

The economic indicators as well as the constructed Uncertainty Index of Lithuania are presented in Figure 17.1. Lithuania's unemployment rate marked its high level in 2010 at almost 20%. The long-term government bond yield 10 years marked its high just a year before in 2009, at 14%, and gradually decreasing onwards. The Uncertainty Index appears to have jump again in 2015 and never reverted to its 2014 lower levels. It is important to note that Lithuania joined the Eurozone on January 2015, giving up on litas, Lithuania's former currency since 1993. However, the former currency is not included in the variables for examination and we count Lithuania as a Eurozone country. The Table 17.1. reports all the correlations between the variables.

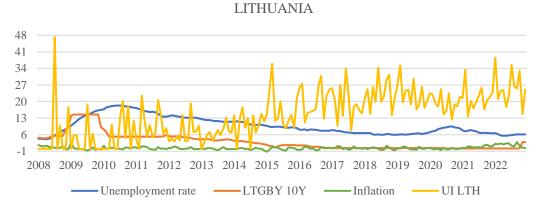


Figure 17.1. Lithuania – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Lithuania
Unemployment rate	1			
LTGBY 10Y	0,610084752	1		
Inflation	-0,267700319	-0,137165123	1	
UI Lithuania	-0,524098762	-0,576620382	0,147174752	1

Table 17.1. Lithuania – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

For Lithuania, data only existed regarding the Consumers Confidence Index. It appears that the strong correlation of 0,473 is statistically significant, based on Table 17.2.2. This fact renders Lithuania one of the few countries in which individuals prefer to consume rather than save, in periods of uncertainty, as the security of the insurance sector is weak

	UI LTU	CCI LTU
UI LTU	1	
CCI LTU	0,47319923	1

Table 17.2.1. Lithuania – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI LTH) and the Consumer Confidence Index (CCI LTH).

	t-statistic	p-value
CCI/UI	7,166384308	1,97188E-11

Table 17.2.2. Lithuania – T-statistic and p-value prices from correlations.

In the Uncertainty Index of Lithuania, a jump in 2015 is recorded, causing the index to fluctuate in higher level prices and never reverting to its former levels. This is due to Lithuania entering the Eurozone and adopting the euro, giving up on litas. Such event, just like in any country, motivated the individual to look up terms like "minimum wage" or "energy price", escalating our constructed Uncertainty Index based on the Google Trends. The correlation between UI LTH and UI GER is at 0,351 and it is statistically significant at 1% confidence level.

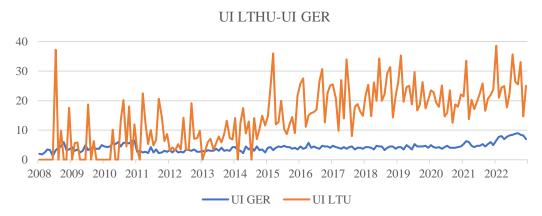


Figure 17.2. Lithuania – Google Trends based Uncertainty Index of Lithuania and Germany.

	UI GER	UI LTU
UI GER	1	
UI LTH	0,35166587	1

Table 17.3.1. Lithuania – Correlation between Lithuania's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI LTH/UI GER	5,01194282	1,29353E-06

Table 17.3.2. Lithuania – T-statistic and p-value prices from correlations.

The stationarity tests Phillips Perron and Augmented Dickey Fuller were run on the four variables for Lithuania. It was determined that two variables, Unemploymentrate and LTGBY10Y, contained a unit-root. We took the first differences of both to make them stationary, creating two new variables dUnemplrate and dLTGBY10Y. Then the VAR model was conducted with the optimal lag number of 3. The variables appear to fluctuate around zero except of the UILTH. The UILTH remains positive during the twelve periods. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 17.7. in the appendix.

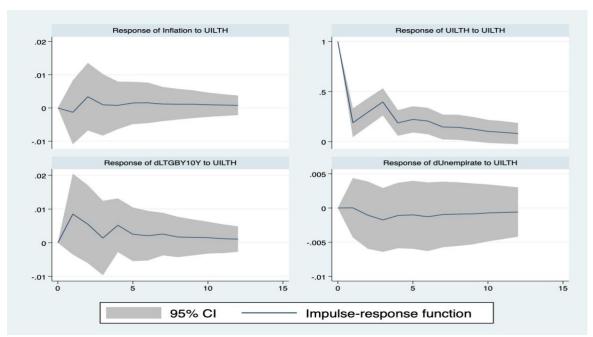


Figure 17.3.1. Lithuania—Impulse Response Functions to a UILTH shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

The Figure 17.3.2. is a dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. The impact of a unit increase in UIGER is significantly weak, especially in the UILTH's and LTH dUnemplrate's response. The other two variables, LTH Inflation and LTH dLTGBY10Y, begin with a positive and negative response respectively, but end up converging to zero in the first two periods. The Table 17.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

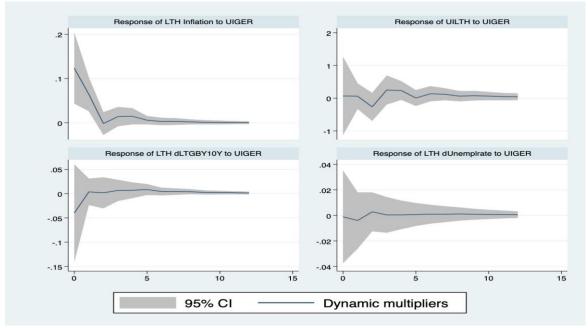


Figure 17.3.2. Lithuania – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

LUXEMBOURG

For Luxembourg, the inflation, the unemployment rate, the long-term government bond yield 10 years and the Uncertainty Index are depicted in Figure 18.1. Lithuania was the first European country that recorded a positive correlation between unemployment rate and the Uncertainty Index at 0,048.

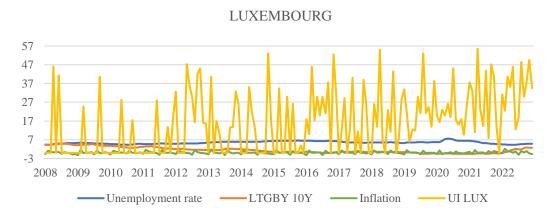


Figure 18.1. Luxembourg – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Luxembourg
Unemployment rate	1			
LTGBY 10Y	-0,603397165	1		
Inflation	-0,129985254	0,003647903	1	
UI Luxembourg	0,048737805	-0,30868969	-0,001107036	1

Table 18.1. Luxembourg – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

Data for the Economic Policy Uncertainty index for Luxembourg were not available online. The correlation between the Consumers Confidence Index for Luxembourg and the Uncertainty Index we built based on Google Trends was found negative at -0,022. However, the results of the t-statistic and the p-value pose the correlation statistically insignificant.

	UI LUX	CCI LUX
UI LUX	1	
CCI LUX	-0,0228705	1

Table 18.2.1. Luxembourg – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI LUX) and the Consumer Confidence Index (CCI LUX).

	t-statistic	p-value
CCI/UI	-0,305210459	0,760562469

Table 18.2.2. Luxembourg – T-statistic and p-value prices from correlations.

Luxembourg's and Germany's Uncertainty Indices are shown below in the graph. It is obvious that UI LUX reacts in a very aggressive manner in contrast to UI GER. UI LUX is characterized with consecutive, extreme spikes throughout the research time horizon. The correlation between the variables is weak and statistically significant, at 0,238.

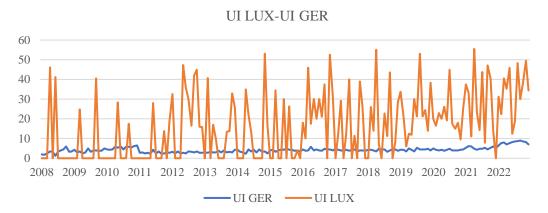


Figure 18.2. Luxembourg – Google Trends based Uncertainty Index of Luxembourg and Germany.

	UI GER	UI LUX
UI GER	1	
UI LUX	0,23839347	1

Table 18.3.1. Luxembourg - Correlation between Luxembourg's and Germany's Uncertainty Indices.

	t-statistic	p-value	
UI LUX/UI GER	3,274987841	0,001269911	

Table 18.3.2. Luxembourg – T-statistic and p-value prices from correlations.

Tests for stationarity using Phillips Perron and Augmented Dickey Fuller were run on the four variables. It was determined that the Unemploymentrate and LTGBY10Y share unitroots. The first differences were used to create the new stationary variables dUnemplrate and dLTGBY10Y. Following the Varsoc, Varstable, and Varlmar (tables 18.4, 18.5, and 18.6 in the appendix), 2 lags were shown to be optimal. For Romania, we then ran the VAR model. The response of the variables to UILUX one-standard deviation is shown by the following IRF graphs. The Uncertainty Index (UI) of Luxembourg seems to have a negligible impact on all economic indicators, just like Latvia and Lithuania. The variables converge to zero shortly after their first small response in the first period. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 18.7 in the appendix.

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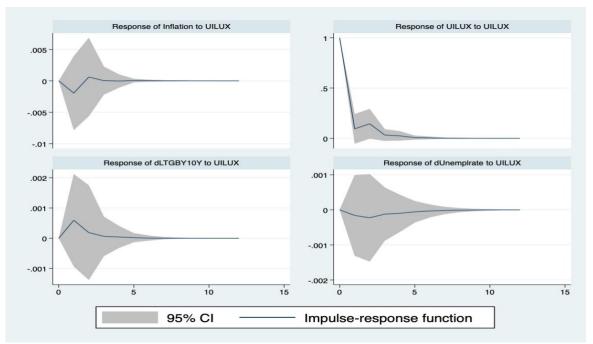


Figure 18.3.1. Luxembourg—Impulse Response Functions to a UILUX shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

In the next set of IRF graphs a dynamic-multiplier function is used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. As seen in Latvia and Lithuania, UIGER has a stronger impact on Luxembourg's economy than UILUX has. Most response values were recorded positive, except of the LUX dUnemplrate ones. The Table 18.8 in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

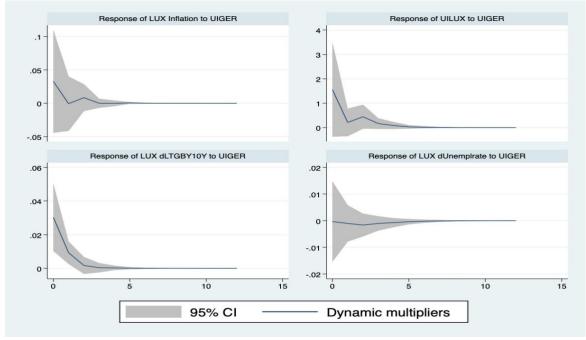


Figure 18.3.2. Luxembourg – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

MALTA

Figure 19.1 presents Malta's economic indicators as well as the constructed Uncertainty Index. The Table 19.1 on the other hand, records the correlation of the variables. Malta's Uncertainty Index was found to record one of the upmost uncertainty levels amongst the European countries. Such an outcome is expected as Malta represents the small economies of Europe, where higher uncertainty levels are awaited.

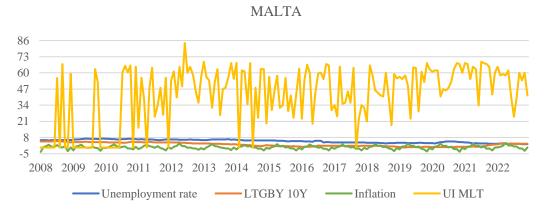


Figure 19.1. Malta – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Malta
Unemployment rate	1			
LTGBY 10Y	0,732875084	1		
Inflation	-0,018910604	0,030554867	1	
UI Malta	-0,44355606	-0,491611314	-0,005758438	1

Table 19.1. Malta – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

Malta is the last country that data for the existing uncertainty indices, CCI and EPU, were not available online. The following graph pictures the Uncertainty Index of Malta and Germany. On January 2012 Malta's credit rating was downgraded by Standard and Poor's rating agency. The IMF warned that the Maltese economy is at risk of contagion from the global financial crisis, fact that launched uncertainty in the country. Also, it is explicit that the COVID19 epidemic crisis kept the Uncertainty Index high for at least 2 years, until 2021. The correlation between the two indices is at 0,227 and it is statistically significant as seen in Table 19.3.2.

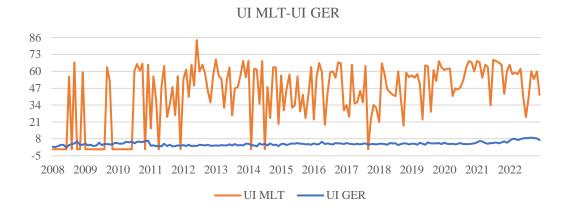


Figure 19.2. Malta – Google Trends based Uncertainty Index of Malta and Germany.

	UI GER	UI MLT
UI GER	1	
UI MLT	0,22743649	1

Table 19.3.1. Malta – Correlation between Malta's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI MLT/UI GER	3,11604372	0,00213726

Table 19.3.2. Malta – T-statistic and p-value prices from correlations.

The four variables were subjected to tests for stationarity using the Phillips Perron and Augmented Dickey Fuller. It was discovered that the LTGBY10Y and the Unemploymentrate share unit-roots. The newly created stationary variables, dUnemplrate and dLTGBY10Y, were made using the initial differences. Two lags were found to be the ideal number to follow the Varsoc, Varstable, and Varlmar (tables 19.4, 19.5, and 19.6 in the appendix). The VAR model was then conducted for Malta. For Inflation, extreme spikes were recorded above and below zero. However, the magnitude of UIMLT's impact on Inflation was negligible. Weak responses were also obtained from dLTGBY10Y and dUnemplrate, although recording consecutive fluctuations around zero. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 19.6. in the appendix.

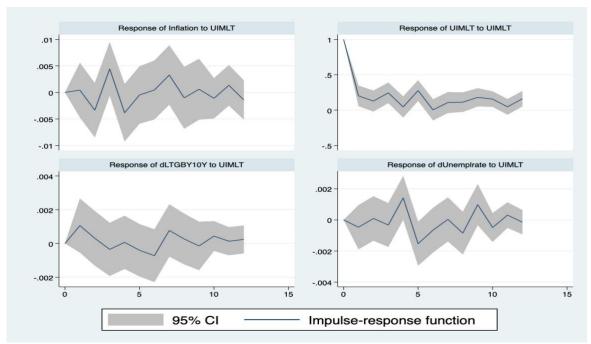


Figure 19.3.1. Malta—Impulse Response Functions to a UIMLT shock. Sample: 2008M1 – 2022M12. VAR (9) estimated with an exogenous variable (UIGER). 95% confidence interval.

The following figure presents a dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. The weaker response came from MLT dUnemplrate and MLT dLTGBY10Y, the former recording a low of -0,005% in the fifth period and the latter a low of -0,004% in the ninth period. The Table 19.8 in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

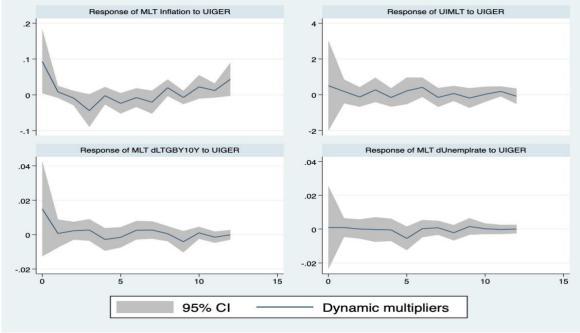


Figure 19.3.2. Malta – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (9) estimated with an exogenous variable (UIGER). 95% confidence interval.

NETHERLANDS

Regarding Netherlands, Figure 20.1. depicts the Uncertainty Index and the economic indicators of the country. Netherlands' unemployment rate reached its maximum level in 2014, at 9%. The signs of correlations seem to comply with theory, except the Uncertainty Index's one. The Uncertainty Index slightly rebounded in 2014, tripling its last year's price level. From that point onwards, the index never returned to its 2013 levels, gradually increasing over the years, reaching at the end of 2022 the all-time high 2008 level.

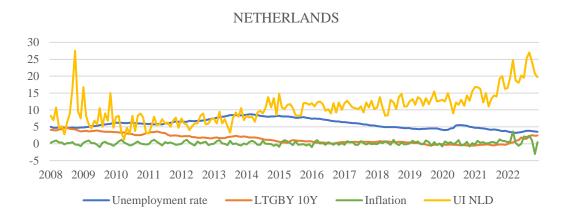


Figure 20.1. Netherlands – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2020.

	Unemployment rate	LTGBY 10Y	Inflation	UI Netherlands
Unemployment rate	1			
LTGBY 10Y	0,099627988	1		
Inflation	-0,181130983	-0,037533865	1	
UI Netherlands	-0,499545797	-0,442901685	0,204133209	1

Table 20.1. Netherlands – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

Concerning the data for the existing uncertainty indices, Netherlands had both CCI and EPU indices available online. However, data were only available until December 2020. Due to this, the following correlation analysis between the indices are addressed to the 2008-2020 horizon. The results of the correlations were not covetable, as one would expect the opposite signs for each variable. However, they were found to be statistically significant as seen in Table 20.2.2.

	UI NLD	CCI NLD	EPU NLD
UI NLD	1		_
CCI NLD	0,29780402	1	
EPU NLD	-0,180406	-0,6367986	1

Table 20.2.1. Netherlands – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI NLD), the Consumer Confidence Index (CCI NLD) and the Economic Policy Uncertainty index (EPU NLD).

	t-statistic	p-value
CCI/UI	4,162045502	4,90444E-05
EPU/UI	-2,447067666	0,015373568
CCI/EPU	-11,01896298	7,36809E-22

Table 20.2.2. Netherlands – T-statistic and p-value prices from correlations.

As forementioned, the Netherlands' Uncertainty Index spikes in 2008 due to the worldwide financial crisis and reverts back in 2010, while slightly rebounds in 2014 and remains at this level for the rest six years until December 2020. The correlation between the two countries' Uncertainty Indices is 0,338 and it is statistically significant.

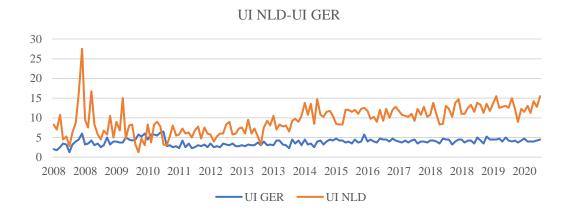


Figure 20.2. Netherlands – Google Trends based Uncertainty Index of Netherlands and Germany.

	UI GER	UI NLD
UI GER	1	
UI NLD	0,33847303	1

Table 20.3.1. Netherlands – Correlation between Netherlands's and Germany's Uncertainty Indices.

-	t-statistic	p-value
UI NDL/UI GER	4,799052234	3,36197E-06

Table 20.3.2. Netherlands – T-statistic and p-value prices from correlations.

The stationarity tests Phillips Perron and Augmented Dickey Fuller were run on the four variables for Lithuania. It was determined that two variables, Unemploymentrate and LTGBY10Y, contained a unit-root. We took the first differences of both to make them stationary, creating two new variables dUnemplrate and dLTGBY10Y. Then the VAR model was conducted for Netherlands with the optimal lag number of 3, based on the Varsoc, Varstable and Varlmar (see tables 20.4., 20.5. and 20.6. in the appendix). The following IRF graphs depict the impact of UINLD one-standard deviation on the economic indicators and the Uncertainty Index of the country. Inflation quickly responds with a jump in the first period, reaching a value close to 0,02% before it converges to zero. UINLD smoothly decreases over the periods, holding on to its positive values. On the other hand, both dLTGBY10Y and dUnemplrate drop sharply in the first period and then move closer to zero, with the former firstly turning positive for two periods. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 20.7. in the appendix.

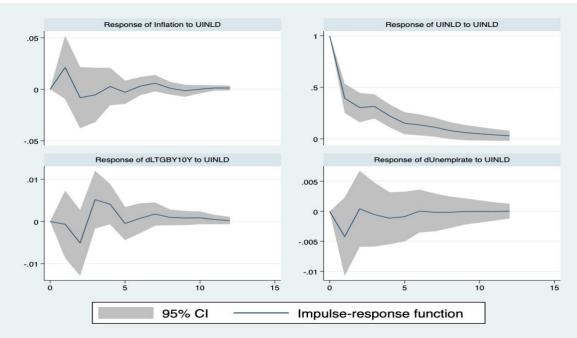


Figure 20.3.1. Netherlands—Impulse Response Functions to a UINLD shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval

Figure 20.3.2. is a dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable.

The Table 20.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

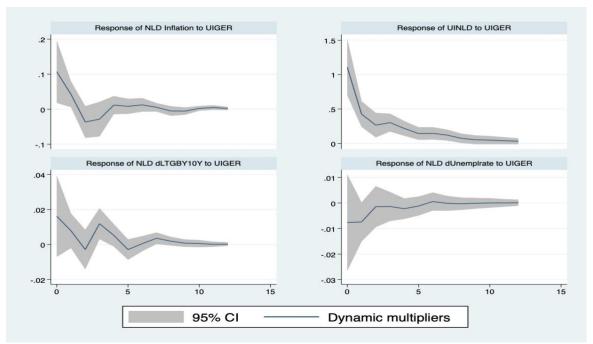


Figure 20.3.2. Netherlands – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

POLAND*

Poland's economic indicators and Uncertainty Index are presented In Figure 21.1. The official currency of Poland is also included in the pool of variables for analysis. The country's currency is zloty, firstly introduced in 1919, and it is equal to 0,22 euros. In Table 21.1. the correlations of the variables are recorded. unemployment rate well surpasses in price level Poland's Uncertainty Index. The unemployment rate recorded it all-time high level in the end of 2013 at 11%, while it interfered above 10% from 2010. It reached the level of 3% in 2020, a percentage lower than the 2008 level. The long-term government bond yield 10 years also fluctuated enough during the fifteen years, starting from 6% and dropping to almost 1% in 2021.

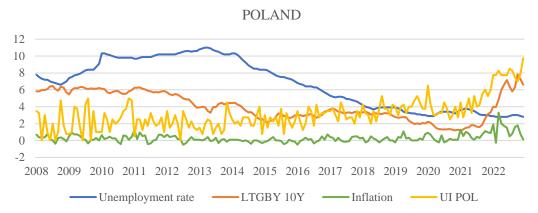


Figure 21.1. Poland – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Poland	PLN/EUR
Unemployment rate	1				
LTGBY 10Y	0,484790705	1			
Inflation	-0,298914463	0,229032728	1		
UI Poland	-0,60910221	-0,05520706	0,453020647	1	
PLN/EUR	0,425710962	0,373111675	-0,246426862	-0,470918543	1

Table 21.1. Poland – Correlation between the Uncertainty Index (UI), unemployment rate, inflation, long-term government bond 10-year yield and the currency of the country over euro (PLN/EUR).

Data for existing uncertainty indices regarding Poland were only found for Consumers Confidence Index. The negative correlation is a covetable outcome, however, it is found to be statistically insignificant in Table 21.2.2.

	UI POL	CCI POL
UI POL	1	
CCI POL	-0,0669258	1

Table 21.2.1. Poland – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI POL) and the Consumer Confidence Index (CCI POL).

	t-statistic	p-value	
CCI/UI	-0,894908345	0,372044598	

Table 21.2.2. Poland – T-statistic and p-value prices from correlations.

Poland's Uncertainty Index appear to mimic Germany's Uncertainty Index throughout the whole fifteen years of analysis. The correlation is quite strong at 0,707 and found statistically significant at the 1% confidence level.

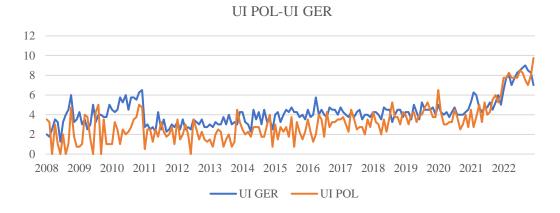


Figure 21.2. Poland – Google Trends based Uncertainty Index of Poland and Germany.

	UI GER	UI POL
UI GER	1	
UI POL	0,70788963	1

Table 21.3.1. Poland – Correlation between Poland's and Germany's Uncertainty Indices.

	t-statistic p-value	
UI POL/UI GER	13,37125471	1,11272E-28

Table 21.3.2. Poland – T-statistic and p-value prices from correlations.

The Augmented Dickey Fuller and Phillips Perron were harnessed for the stationarity test on the five variables. It was determined that the variables Unemploymentrate, LTGBY10Y and PLN/EUR currency. We took their first differences and created the new stationary variables, dUnemplrate, dLTGBY10Y and dPLN/EUR. According to the tables 21.4., 21.5. and 21.6. seen in the appendix, we concluded that the optimal number of lags was 3. We then conducted the VAR model for Portugal. The IRF graphs in the next page show the impact of UIPOL one-standard deviation to the economic indicators and UIPOL. It is of note the weak impact UIPOL has on the dPLN/EUR currency. The Inflations' response to UIPOL records positive values with its highest being in the third period at around 0,06%. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 21.7. in the appendix.

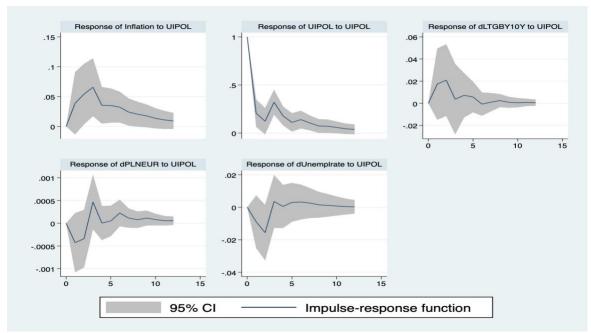


Figure 21.3.1. Poland–Impulse Response Functions to a UIPOL shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

The second set of IRF graphs is a dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. UIGER appears to have a great impact on UIPOL, POL Inflation and POL dLTGBY10Y, while for the first time UIGER has similar impact on the currency of the country as the country's UI has. The Table 21.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

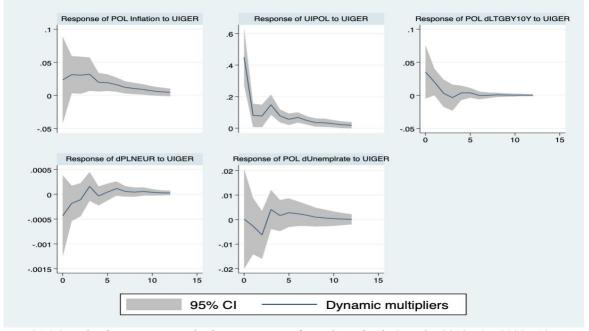


Figure 21.3.2. Poland – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

PORTUGAL

Regarding Portugal, the country's economic indices and the Uncertainty Index are shown below. Portugal's unemployment rate hit the maximum level of 19% in 2013, gradually decreasing and reaching the 2008 level percentage just after 2017. Paradoxically, our Uncertainty Index record zero values in the period of the 2008 financial crisis. The Table 22.1. reports the correlations between all variables.

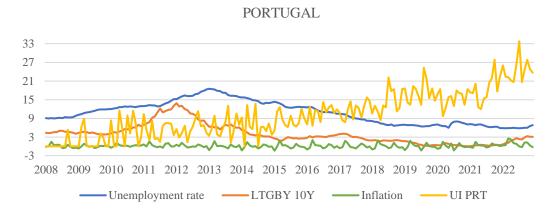


Figure 22.1. Portugal – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Portugal
Unemployment rate	1			
LTGBY 10Y	0,730216599	1		
Inflation	-0,085348002	0,011189386	1	
UI Portugal	-0,630545575	-0,557599162	0,132669325	1

Table 22.1. Portugal – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

We only came across data for the Consumers Confidence Index and not for the Economic Policy Uncertainty index. The correlation that was provided was equal to 0,295 and was statistically significant at the 1% confidence level.

	UI PRT	CCI PRT
UI PRT	1	
CCI PRT	0,29595466	1

Table 22.2.1. Portugal – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI PRT) and the Consumer Confidence Index (CCI PRT).

	t-statistic	p-value	
CCI/UI	4,133709677	5,48996E-05	

Table 22.2.2. Portugal – T-statistic and p-value prices from correlations.

In the figure shown below, it is clear that Germany's Uncertainty Index interferes almost steady during the years despite the couple of worldwide crises that took place. While the Portugal's Uncertainty Index began to gradually increase just after 2017. A part of the uncertainty could be accused on the series of four initial deadly wildfires erupted across central Portugal in June 2017, that lead to many deaths and injured people. Accompanied by the COVID19 epidemic crisis and the Russian invasion to Ukraine, the UI PRT never returned to its 2015-2016 levels. The correlation between UI PRT and UI GER is considered strong at 0,604 and statistically significant.

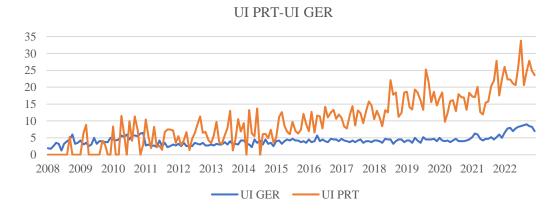


Figure 22.2. Portugal – Google Trends based Uncertainty Index of Portugal and Germany.

	UI GER	UI PRT
UI GER	1	
UI PRT	0,6047231	1

Table 22.3.1. Portugal – Correlation between Portugal's and Germany's Uncertainty Indices.

	t-statistic	p-value	
UI PRT/UI GER	10,13014793	2,48491E-19	

Table 22.3.2. Portugal – T-statistic and p-value prices from correlations.

The Augmented Dickey Fuller and Phillips Perron stationarity tests were run on the four variables. We found unit-roots for the Unemploymentrate and LTGBY10Y. By taking the first differences, new stationary variables dUnemplrate and dLTGBY10Y were created. After running the Varsoc, Varstable, and Varlmar (see tables 22.4, 22.5, and 22.6 in the appendix), it was found that 2 lags were optimal. The VAR model for Portugal was then run. The IRF graphs show how the variables react to one UIPRT standard deviation. We notice that while Inflation

delays on its first spike, around 0,01% the fourth period, dUnemplrate jumps close to the same percentage in the first period. Also, dLTGBY10Y manages to hold on to positive values until the fifth period, while UIPRT never fell below zero. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 22.6. in the appendix.

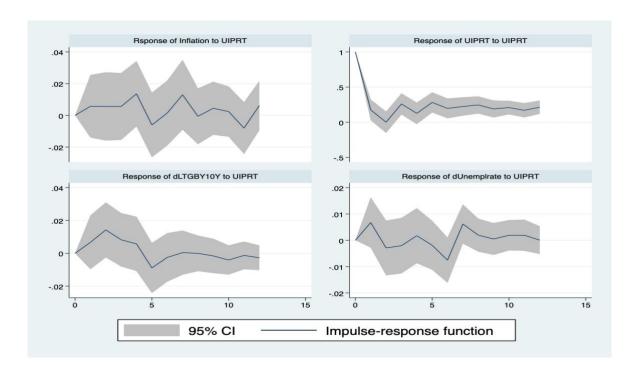


Figure 22.3.1. Portugal—Impulse Response Functions to a UIPRT shock. Sample: 2008M1 – 2022M12. VAR (7) estimated with an exogenous variable (UIGER). 95% confidence interval

The Figure 22.3.2. of Portugal in the next page is a dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. The variables are once again observed to be moving very close and around to zero for the whole twelve periods, meaning that the impact of UIGER is not remarkable in the Portuguese economy. The Table 22.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

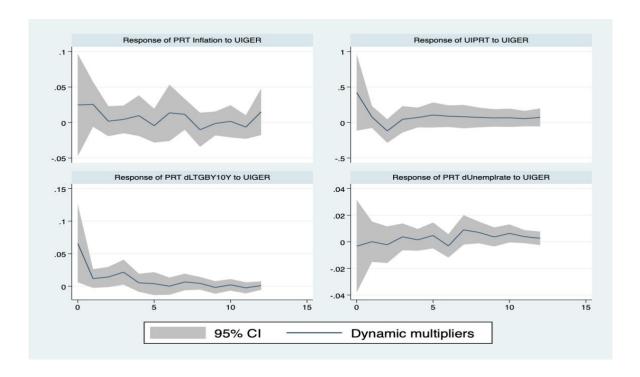


Figure 22.3.2. Portugal – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (7) estimated with an exogenous variable (UIGER). 95% confidence interval.

ROMANIA*

In the following figure the economic indicators of Romania and the Uncertainty Index of the country are presented. As Romania is not included in Eurozone, its currency over euro is analyzed as well. The official currency of Romania, established in 2005, is the fourth Romania Leu (RON), which is equal in today's data to 0,20 euros. The Table 23.1. reports the correlations between the variables and the Romanian currency over euro. It appears that the correlation between RON/EUR and unemployment rate is positive at 0,325, fact that does not align with the economic theory. In theory, as mentioned before, it is known that a low level of unemployment rates means a strong economy, which increases the demand for the currency. In case a low unemployment rate is reported, then investors may seek investment opportunities in that country, causing a rise in the value of that currency. So, a positive correlation, as in the case of Romania, is not considered a desirable outcome.

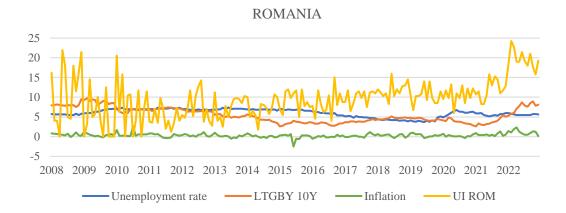


Figure 23.1. Romania – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Romania	RON/EUR
Unemployment rate	1				
LTGBY 10Y	0,237578674	1			
Inflation	-0,099088452	0,305913713	1		
UI Romania	-0,379043765	-0,042269355	0,192283081	1	
RON/EUR	0,325756565	0,514864716	-0,041166464	-0,296208564	1

Table 23.1. Romania – Correlation between the Uncertainty Index (UI), unemployment rate, inflation, long-term government bond 10-year yield and the currency of the country over euro (RON/EUR).

Romania is the last of the three countries – Cyprus, Malta and Romania – that data exists neither for the Consumers Confidence Index nor for the Economic Policy Uncertainty index. Due to this fact, we move straight to the annotation of the comparison between the Romania's and Germany's Uncertainty Indices. The following graph depicts the UI ROM and UI GER. The table shows the moderate correlation of 0,493 between the two variables, a statistically significant value at the 1% confidence level.

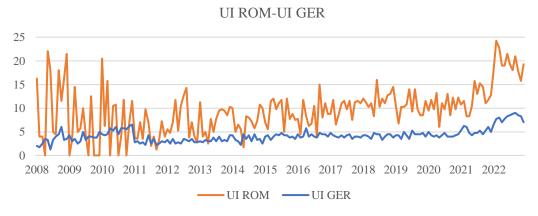


Figure 23.2. Romania – Google Trends based Uncertainty Index of Romania and Germany.

	UI GER	UI ROM
UI GER	1	
UI ROM	0,49380344	1

Table 23.2.1. Romania – Correlation between Romania's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI ROM/UI GER	7,57631097	1,8703E-12

Table 23.2.2. Romania – T-statistic and p-value prices from correlations.

The five variables were subjected to the Augmented Dickey Fuller and Phillips Perron stationarity tests. The Unemploymentrate, RON/EUR and LTGBY10Y were discovered to have a unit-root. New stationary variables, dUnemplrate, dRON/EUR and dLTGBY10Y, were produced by taking the first differences. Two lags were determined to be the ideal number after performing the Varsoc, Varstable, and Varlmar (tables 23.4, 23.5, and 23.6 in the appendix). Next, we ran the VAR model for Romania. The IRF graphs depict the response of the variables to one-standard deviation of UIRON. Inflation and dLTGBY10Y appear to spike in the first periods close to 0,02%. On the other hand, dRON/EUR moves negatively along the periods with extreme spikes, however its lowest record is -0,0002% a value quite weak to be remarkable. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 23.6. in the appendix.

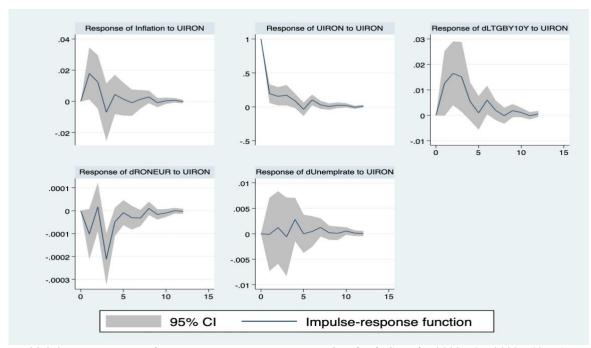


Figure 23.3.1. Romania—Impulse Response Functions to a UIRON shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

The following figure is a dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. The results obtained showed a weak negative impact on dRON/EUR currency in every unit increase of UIGER. RON dUnemplrate also appeared negative but only for the first two periods. Regarding RON Inflation, UIRON and RON dLTGBY10Y, most of the values appeared positive, with UIRON reaching as high as 0,41% in the second period. The Table 23.7.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

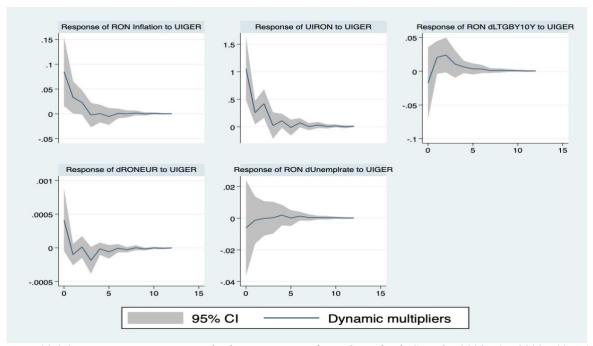


Figure 23.3.2. Romania – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

SLOVAKIA

Concerning Slovakia, all economic indicators along with the Uncertainty Index of the country are shown in Figure 24.1. The country's unemployment rate recorded its all-time high in 2010 at 15% and interfered in that percentage for at least four years. As for the Uncertainty Index, it spiked slightly in the 2008 financial crisis, and much more in 2011 and 2022. The signs of the correlations in the following table comply with the economic expectations, except from the negative correlation between unemployment rate and the UI of Slovakia.

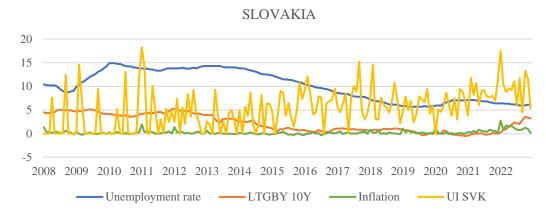


Figure 24.1. Slovakia – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Slovakia
Unemployment rate	1			
LTGBY 10Y	0,690103595	1		
Inflation	-0,284065675	0,008202654	1	
UI Slovakia	-0,393579197	-0,381320969	0,308450546	1

Table 24.1. Slovakia – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

For Slovakia we came across data for the Consumers Confidence Index (CCI). The correlation between the existing uncertainty index and our constructed Uncertainty Index based on Google Trends showed a weak value of 0,05. However, in Table 24.2.2. it is clear that due to the t-statistic and p-value the correlation is considered statistically insignificant.

	UI SVK	CCI SVK
UI SVK	1	
CCI SVK	0,05409434	1

Table 24.2.1. Slovakia – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI SVK) and the Consumer Confidence Index (CCI SVK).

	t-statistic	p-value
CCI/UI	0,722766735	0,470771786

Table 24.2.2. Slovakia – T-statistic and p-value prices from correlations.

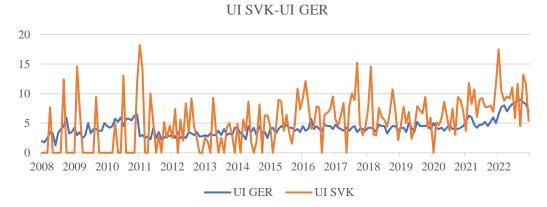


Figure 24.2. Slovakia – Google Trends based Uncertainty Index of Slovakia and Germany.

	UI GER	UI SVK
UI GER	1	
UI SVK	0,31210281	1

Table 24.3.1. Slovakia – Correlation between Slovakia's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI SVK/UI GER	4,382904226	1,99761E-05

Table 24.3.2. Slovakia – T-statistic and p-value prices from correlations.

The four variables were subjected to the Augmented Dickey Fuller and Phillips Perron stationarity tests. The Unemploymentrate and LTGBY10Y were discovered to contain a unit-root., Two new stationary variables, dUnemplrate and dLTGBY10Y, were produced by taking the first differences. The tables 24.4, 24.5, and 24.6 in the appendix revealed that the optimal number of lags was 2. The VAR model was then run. The IRF graphs shown in the next page depict the impact of UISVK one-standard deviation on the economic indicators of the country and the Uncertainty Index. The values obtained regarding all the variables indicated little to zero response of the economic indicators to UISVK impulse. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 24.7. in the appendix.

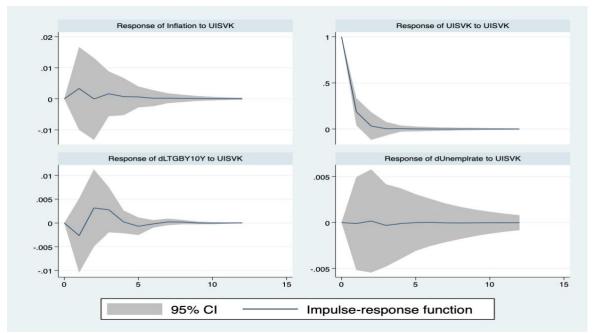


Figure 24.3.1. Slovakia—Impulse Response Functions to a UISVK shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

The next set of IRF graphs referred to a dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. All four variable managed to remain above zero during the periods examined before the converge to zero and die out. We should note that the impact of an UIGER impulse is much more perceptible to the Slovenian economy than is its own Uncertainty Index. The Table 24.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

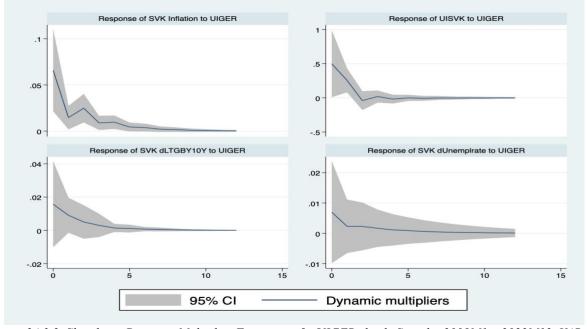


Figure 24.3.2. Slovakia – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

SLOVENIA

In Figure 25.1. and Table 25.1. the economic indicators and our Uncertainty Index for Slovenia are depicted and reported respectively. It seems that the Uncertainty Index fluctuates around a mean throughout the fifteen years, with all-time high recorded in 2008. Unemployment rate reached its high level in 2013 at 10% and did not drop until after 2016.

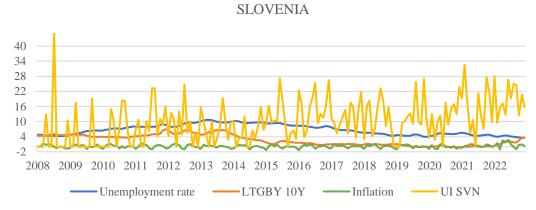


Figure 25.1. Slovenia – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Slovenia
Unemployment rate	1			
LTGBY 10Y	0,508751996	1		
Inflation	-0,134905213	-0,009691676	1	
UI Slovenia	-0,164737758	-0,314687568	-0,02018059	1

Table 25.1. Slovenia – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

For Slovenia we only came across data for the Consumers Confidence Index. The positive correlation of 0,120 is not a desirable outcome, as a negative sign would be expected in this case between CCI and UI. However, with a t-statistic less than 1,96 in absolute value and a p-vale greater than 0,05, the correlation is considered statistically insignificant

	UI SVN	CCI SVN
UI SVN	1	
CCI SVN	0,12030774	1

Table 25.2.1. Slovenia – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI SVN) and the Consumer Confidence Index (CCI SVN).

	t-statistic	p-value
CCI/UI	1,616849199	0,10768168

Table 25.2.2. Slovenia – T-statistic and p-value prices from correlations.

The following graph compared the Uncertainty Indices of Slovenia and Germany. UI SVN appears to fluctuate around a mean with extreme spikes in contrast to UI GER. The correlation between the two variables is moderate at 0,335 and is found to be statistically significant in Table 25.3.2.

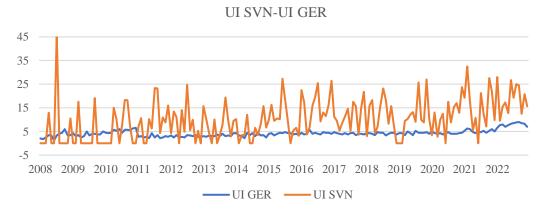


Figure 25.2. Slovenia – Google Trends based Uncertainty Index of Slovenia and Germany.

	UI GER	UI SVN
UI GER	1	
UI SVN	0,3350541	1

Table 25.3.1. Slovenia – Correlation between Slovenia's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI SVN/UI GER	4,744411473	4,27596E-06

Table 25.3.2. Slovenia – T-statistic and p-value prices from correlations.

On the four variables, the Augmented Dickey Fuller and Phillips Perron stationarity tests were conducted. The Unemploymentrate and LTGBY10Y were discovered to contain a unit-root. The dUnemplrate and dLTGBY10Y stationary variables, were produced by taking the first differences. The Varsoc, Varstable, and Varlmar tests (tables 25.4, 25.5, and 25.6 in the appendix) revealed that 2 lags were the optimal number. The VAR model was then run. All four variable move quite close to zero, so the impact of the UISVN on the economic indicators is of minor significance. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 25.7. in the appendix.

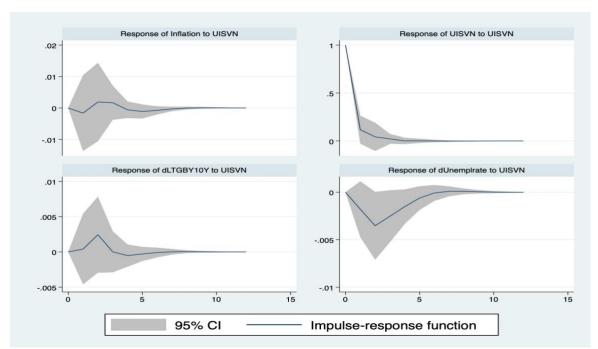


Figure 25.3.1. Slovenia—Impulse Response Functions to a UISVN shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

The Figure 25.3.2. for Slovenia is a dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. SVN Inflation turned negative in the fourth period, with its lowest price recorded equal to -0,002%. The UISVN managed to remain positive only for the first three periods. Both SVN dLTGBY10Y and SVN dUnemplrate had almost equal positive and negative values, with the former recording its lowest value in the third period with -0,007% and the latter in the fourth period with -0,002%. The Table 25.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

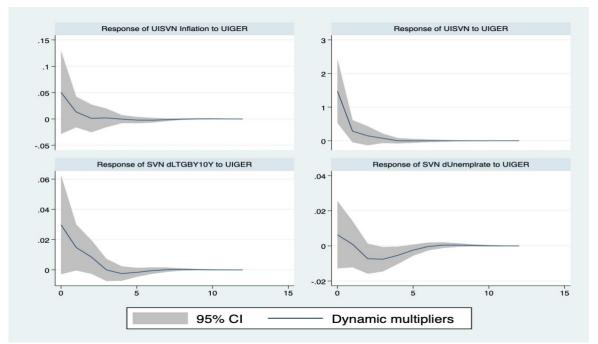


Figure 25.3.2. Slovenia – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

SPAIN

Spain's economic indicators and Uncertainty Index are presented in the figure below. It is of note that the unemployment rate of Spain reached 26% in 2013, a level only Greece reached about the same time, making it the second country recording an over 20% unemployment rate in the fifteen years of analysis. On the other hand, while unemployment rate was high, the Uncertainty Index remained considerably low during the first decade and after the COVID19 epidemic crisis jumped slightly and interfered at that level until the end of 2022. The Table 26.1 reports the correlations between the variables.

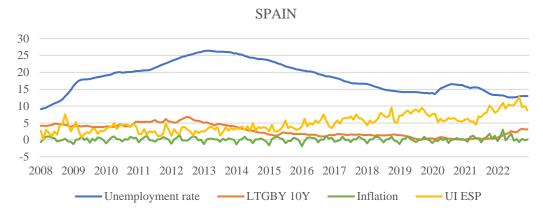


Figure 26.1. Spain – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Spain
Unemployment rate	1			
LTGBY 10Y	0,480545888	1		
Inflation	-0,097831779	-0,027478227	1	
UI Spain	-0,579663791	-0,636917648	0,11691803	1

Table 26.1. Spain – Correlation between the Uncertainty Index (UI), unemployment rate, inflation and long-term government bond 10-year yield.

For Spain we were able to find data for both uncertainty indices, CCI and EPU. Both correlations between the existing uncertainty indices and our constructed Uncertainty Index were found statistically significant at the 1% confidence level, fact that renders the correlations true to their values. However, we face again the undesirable outcome of the positive sign between CCI and UI. This again, might be due to the negligible security that exists in the insurance sector, leading individuals to consume rather than save.

	UI ESP	CCI ESP	EPU ESP
UI ESP	1		
CCI ESP	0,299168	1	
EPU ESP	0,28150059	0,01256303	1

Table 26.2.1. Spain – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI ESP), the Consumer Confidence Index (CCI ESP) and the Economic Policy Uncertainty index (EPU ESP).

	t-statistic	p-value
CCI/UI	4,182977347	4,51078E-05
EPU/UI	3,913962762	0,000129126
CCI/EPU	0,167624993	0,867068599

Table 26.2.2. Spain – T-statistic and p-value prices from correlations.

The Uncertainty Index of Spain appears to follow the same route Germany's Uncertainty Index follows. With a statistically significant correlation as high as 0,720, Spain constitutes the country with the strongest correlation between its Uncertainty Index and the Germany's one.

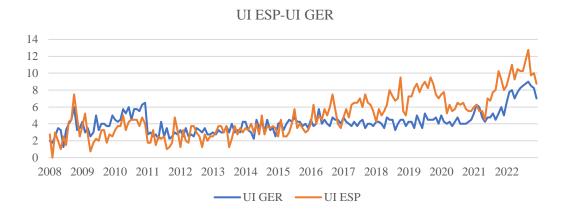


Figure 26.2. Spain – Google Trends based Uncertainty Index of Spain and Germany.

	UI GER	UI ESP
UI GER	1	
UI ESP	0,72010589	1

Table 26.3.1. Spain – Correlation between Spain's and Germany's Uncertainty Indices.

-		
	t-statistic	p-value
UI ESP/UI GER	13,84624115	4,60646E-30

Table 26.3.2. Spain – T-statistic and p-value prices from correlations.

Tests for stationarity, Augmented Dickey Fuller and Phillips Perron, were harnessed on the variables Inflation, UIESP, LTGBY10Y and Unemployment rate. Two of the variables, Unemploymentrate and LTGBY10Y, contained a unit-root, meaning they were not stationary. To make them stationary we took their first differences and created the dUnemplrate and dLTGBY10Y variables. According to the tables 26.4., 26.5. and 26.6., the optimal lags for the conduction of the VAR model for Spain were 3. It is observed that Inflation fluctuated around zero for all the periods, while the response of UIESP on UIESP's impulse remained positive. Both dLTGBY10Y and dUnemplrate fell below zero and spiked over it in the third and second period respectively. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 26.7. in the appendix.

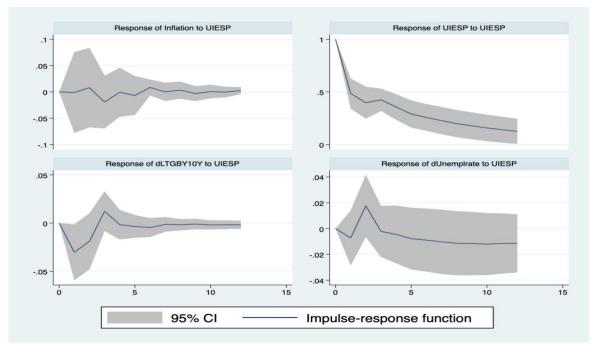


Figure 26.3.1. Spain—Impulse Response Functions to a UISVN shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

The Figure 26.3.2. is a dynamic-multiplier function used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. It looks like all variables follow the same route. Two of them manage to stay positive over the periods, UIESP and ESP dUnemplrate, while the other two dropped slightly below zero for only a period. The Table 26.8 in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

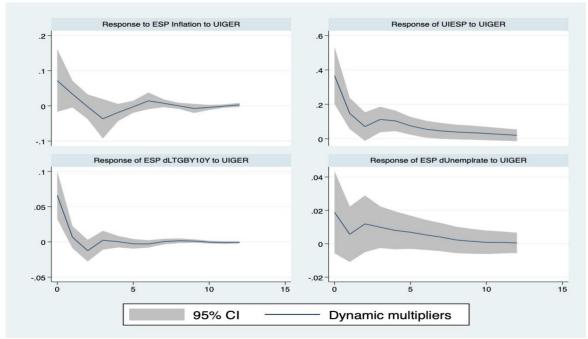


Figure 26.3.2. Spain – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (3) estimated with an exogenous variable (UIGER). 95% confidence interval.

SWEDEN*

The last country for analysis is Sweden. Sweden in not part of Eurozone and holds its own currency. The official currency of the country is the Swedish krona, first established in 1873. In today's data 1 Swedish krona equals 0,084 euros. Again, the positive correlation between unemployment rate and SEK/EUR currency is not covetable. Regarding the long-term government bond yield 10 years, its started at 4% in 2008 and gradually after six to seven years it converged to zero. The constructed Uncertainty Index seems to constantly fluctuate reaching its maximum level in 2022. The signs of the economic indicators' weak correlations comply with the economic theory.

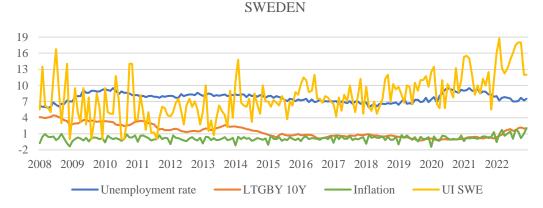


Figure 27.1. Sweden – Depiction of the Uncertainty Index (UI) and other economic indices from January 2008 till December 2022.

	Unemployment rate	LTGBY 10Y	Inflation	UI Sweden	SEK/EUR
Unemployment rate	1				
LTGBY 10Y	0,077668121	1			
Inflation	-0,061745212	0,005030739	1		
UI Sweden	-0,106957706	-0,273282112	0,206042173	1	
SEK/EUR	0,139032592	0,283662698	-0,165819035	-0,408637353	1

Table 27.1. Sweden – Correlation between the Uncertainty Index (UI), unemployment rate, inflation, long-term government bond 10-year yield and the currency of the country over euro (SEK/EUR).

Regarding Sweden's existing uncertainty indices, only Consumers Confidence Index data was available. We correlated the CCI of Sweden with our Uncertainty Index (UI SWE) and found a negative moderate value of -0,393. The correlation is considered statistically significant at the 1% confidence level, with a p-value less than 0,01 and t-statistic greater than 1,96 in absolute value.

	UI SWE	CCI SWE
UI SWE	1	
CCI SWE	-0,3930513	1

Table 27.2.1. Sweden – Measures of uncertainty: Correlation between our constructed Uncertainty Index (UI SWE) and the Consumer Confidence Index (CCI SWE).

	t-statistic	p-value
CCI/UI	-5,702952504	4,81874E-08

Table 27.2.2. Sweden – T-statistic and p-value prices from correlations.

It is noticeable that the Swedish Uncertainty Index is much more extreme and persistent in its jumps. Unlike UI SWE, UI GER remains mainly steady throughout the years with two exceptions, one in 2010-2011 and one at the end of 2022. The correlation between UI SWE and UI GER is positive at 0,503 and statistically significant as seen in Table 27.3.2.

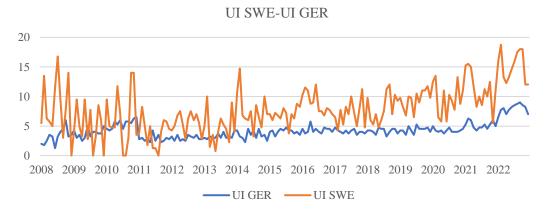


Figure 27.2. Sweden – Google Trends based Uncertainty Index of Sweden and Germany.

	UI GER	UI SWE
UI GER	1	
UI SWE	0,50347345	1

Table 27.3.1. Sweden – Correlation between Sweden's and Germany's Uncertainty Indices.

	t-statistic	p-value
UI SWE/UI GER	7,774410223	5,85744E-13

Table 27.3.2. Sweden - T-statistic and p-value prices from correlations.

The stationarity tests Augmented Dickey Fuller and Phillips Perron were run on the five variables. It was found that the Unemploymentrate and LTGBY10Y were containing a unitroot. Taking the first differences created new stationary variables, dUnemplrate and dLTGBY10Y. After running the Varsoc, Varstable and Varlmar (tables 27.4., 27.5. and 27.6.), the optimal number of lags was found to be 2. Then we conducted the VAR model. As seen in

the first graph, Inflation jumps close to 0,02% in the first periods and then drops close to zero. It is clear that the response of the two variables dLTGBY10Y and dSEK/EUR are of no great significance. Lastly, the dUnemplrate firstly drops below zero and then spikes close to 0,02% before it converges to zero as well and die out. The Forecast Error Variance Decomposition (FEVD) table, is presented in the Table 27.7. in the appendix.

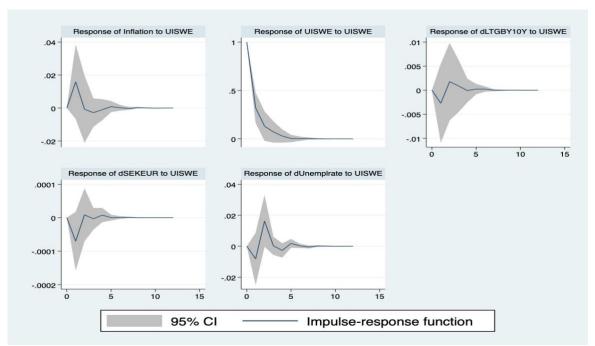


Figure 27.3.1. Sweden—Impulse Response Functions to a UISVN shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval

In the second set of IRF graphs is a dynamic-multiplier function, used to measure the impact of a unit increase in an exogenous variable on the endogenous variables over time. The Uncertainty Index of Germany is the exogenous variable. It is of note the tiny effect UIGER has on the currency dSEK/EUR. The response of UISWE to UIGER remains positive until the seventh period and turns negative only for the eight. Regarding the SWE dUnemplrate, while starting at -0,05, its jumps to 0,02 in the first period and then converges to zero, slowly dying out. SWE dLTGBY10Y only moved below zero in the third period. The Table 27.8.in appendix, reports the Dynamic-Multiplier Function table that divides the changes or the variation on the endogenous variables into the exogenous variable shocks of the Panel VAR model.

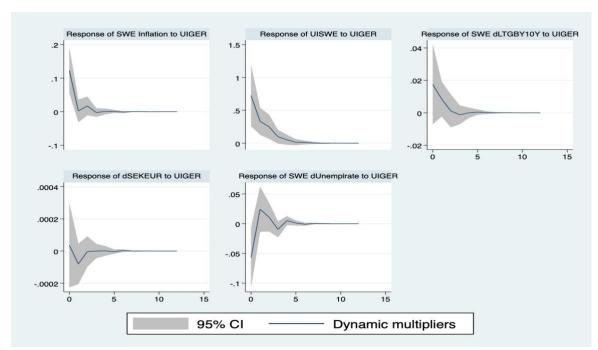


Figure 27.3.2. Sweden – Dynamic-Multiplier Functions of a UIGER shock. Sample: 2008M1 – 2022M12. VAR (2) estimated with an exogenous variable (UIGER). 95% confidence interval.

EUROPEAN UNION & THE EUROZONE

In this subsection we focus on the Uncertainty Index for both the European Union and the Euro Area. For the European Union index and the Euro Area, all 27 and 19 countries' uncertainty index, respectively, was aggregated it having formerly being multiplied by their Real Gross Domestic Product. It is important to note that we hypothesized a stable RGDP throughout the year for all countries. The following figure depicts the historical data of the indices from January 2008 till December 2022. For the comparison of the two indices with the UI of Germany to be accurate, we transformed all the monthly data to annual data for all three variables. It is clear that the Uncertainty Index for the European Union is considerably more volatile than the Uncertainty Index of the Eurozone. Based on this fact, it would be safe to assume that the extreme spikes originate from the nine countries that are not members of the Eurozone. Also, it is of note that UI GER follows precisely the path of UI EU and UI EA throughout the fifteen years horizon, except for a small spike in 2010. Such a result is expected as Germany is the strongest economy in Europe.

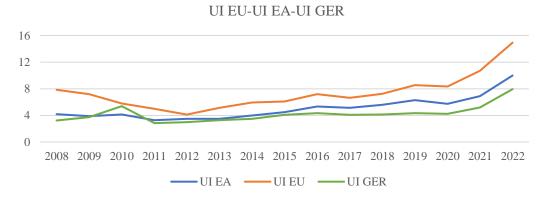


Figure 28.1. Google Trends based Uncertainty Index for the European Union, the Euro-Area and Germany

The following table presents the correlation of the three variables, UI EU, UI EA and UI GER. All variables have strong positive correlations, above 0,80, and as reported in Table 28.1.2. all are statistically significant with p-value well below 0,05 and t-statistic greater than 1.96 in absolute values.

	UI EA	UI EU	UI GER
UI EA	1		
UI EU	0,95047526	1	
UI GER	0,89012295	0,8540705	1

Table 28.1.1. European Union – Measures of uncertainty: Correlation between our constructed Aggregate Uncertainty Index for the European Union (UI EU) and the Economic Policy Uncertainty Index (EPU EU).

	t-statistic	p-value
UI EU/UI EA	40,8008778	2,88135E-92
UI GER/UI EA	26,0592245	1,18679E-62
UI GER/UI EU	21,9063016	2,06874E-52

Table 28.1.2. European Union – T-statistic and p-value prices from correlations.

Conclusions

The construction of a macroeconomic uncertainty index based on Google Trends yielded amalgamated findings. For most of the European countries, our Uncertainty Index based on Google Trends appeared to follow along with the economic theory and also provided likeable results when correlated with existing uncertainty indices, like the Consumer Confidence Index (CCI) and the Economic Policy Uncertainty index (EPY) by Baker, Bloom & Davis (2016). Nevertheless, the rest of the countries located undesirable findings when our Uncertainty Index was correlated with the CCI and EPU. The signs of the correlation were counter to theory.

One possible reason was discussed within the article. This was the weak or untrustworthy security of the country's insurance sector. Such a case could possibly impel the dwellers of the country to carry on consuming even in periods of high uncertainty, instead of saving up. The fact that only four terms were employed for the structure of the index, all investigated in the English language and not translated in each country's language, constitutes another reason for the non-covetable and indicative results. In literature regarding the concrete topic, authors investigate a single country's uncertainty index, or no more than two countries', with the use of forty or more keywords for the construction of the index.

Regarding the Impulse-Response and Dynamic-Multiplier Functions, likeable results prevailed. Firstly, the impact of the country's Uncertainty Index on the economic indicators of the country was examined. Then, all the countries' variables responses were tested to a unit increase in the Uncertainty Index of Germany, the greatest economy in Europe. The majority of the European countries responses of their variables seemed more intense, explicit and notable when a shock occurred to the Uncertainty Index of German rather than when occurred to their own country's Uncertainty Index. Whether there was a plethora of words used in the analysis for the construction of the macroeconomic uncertainty index, as pursued in other papers concerning Google Trends, the results would be more accurate, reliable and appropriate for drawing deservedly conclusions. For this reason, further research regarding the topic is suggested.

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Appendix A

	1																		
ESP																			1
NAS																		1	0,370
SVK																	1	0,329	0,425
POL																1	0,296	0,319	0,719
NTH															1	0,665	0,375	0,319	0,770
MLT NTH														1	0,307	0,298	0,310	0,343	0,309
LUX													1	0,269	0,293	0,327	0,094 0,415 0,337 0,296 0,376 0,252 0,310 0,375 0,296	0,245	0,321
ПТН												1	0,259	0,464	0,486	0,430	0,376	0,497	0,557
LTV											1	0,108	0,176	0,222	0,251	0,126	0,296	0,079	0,176
ITA										1	0,044	0,568	0,271	0,274	0,589	0,466	0,337	0,368	0,662
IRL									1	0,634	0,129	0,609	0,350	0,389	0,735	0,721	0,415	0,376	0,855
GRC								1	0,143	0,210	0,036	0,128	0,203	0,038	0,215	0,260	0,094	0,215	0,191
GER							1	0,258	0,651	0,548 0,517 0,210 0,634	0,165 0,206 0,036 0,129 0,044	0,463 0,351 0,128 0,609 0,568 0,108	0,238	0,216 0,227 0,038 0,389 0,274 0,222 0,464 0,269	0,668 0,686 0,215 0,735 0,589 0,251 0,486 0,293 0,307	0,622 0,707 0,260 0,721 0,466 0,126 0,430 0,327 0,298 0,665),293 0,312	0,312 0,335 0,215 0,376 0,368 0,079 0,497 0,245 0,343 0,319 0,319 0,329	0,720 0,720 0,191 0,855 0,662 0,176 0,557 0,321 0,309 0,770 0,719 0,425 0,370
FRA						1	0,538	0,286 0,258	0,675	0,548)	0,463	0,364	0,216	0,668		0,293	0,312	
FIN					1	0,399	0,475	0,145	0,470	0,383	0,315	0,313	0,249	0,209	0,498	0,476	0,212	0,215	0,482
EST				1	0,146	0,210	0,154	0,117	0,251	0,204	0,052	0,182	0,233	0,235	0,144	0,204	0,182	0,252	0,172
CYP			1	0,303	0,159 0,146	0,204	0,217	0,342	0,165	0,030	0,255 0,184 0,052	0,205	0,218	0,294	0,089	0,151	0,123	0,306	0,189
BEL		1	0,201	0,143	0,451	0,577	0,622	0,256	0,607	0,456	0,255	0,401	0,305	0,302	0,724	0,627	0,389 0,123	0,368	0,650
AUT	1	0,3733	0,0797	-0,0018 0,143 0,303	0,3679	0,3040 0,577 0,204 0,210 0,399	GER 0,3132 0,622 0,217 0,154 0,475	GRC -0,0536 0,256 0,342 0,117 0,145	0,3039 0,607 0,165 0,251 0,470 0,675 0,651 0,143	0,1822 0,456 0,030 0,204 0,383	0,3857	0,1113 0,401 0,205 0,182 0,313	LUX 0,0637 0,305 0,218 0,233 0,249 0,364 0,238 0,203 0,350 0,271 0,176 0,259),1188	0,3442 0,724 0,089 0,144 0,498	0,3329 0,627 0,151 0,204 0,476	0,1608	-0,0118 0,368 0,306 0,252 0,215	0,3366 0,650 0,189 0,172 0,482
	AUT	BEL (CYP (EST -(FIN (FRA (GER (GRC -	IRL (ITA (LTV (ГТН (TOX (MLT 0,1188 0,302 0,294 0,235 0,209) HLN	POL (SVK (NAS	ESP (

Table 1. Uncertainty Index correlation between all Eurozone countries

	AUT	BEL	BUL	CRO	CYP	CZR	DNK	EST	FIN	FRA	GER	GRC HUN	HUN	IRL	ITA	TLL	ТТН	LUX MLT NTH	MLT	HLIN	I TOA	PRT ROM SVK	SOM S		SVN E	ESP S	SWE
AUT	1																										
BEL	0,3733206	1																									
BUL	0,1988053 0,4536	0,4536	1																								
CRO	0,0801689 0,3324 0,456	0,3324	0,456	1																							
CYP	0,0797992 0,2018 0,155 0,177	0,2018	0,155	0,177	1																						
CZR	0,0628722 0,2270 0,364 0,251 0,207	0,2270	0,364	0,251	0,207	1																					
DNK	0,2595668 0,5270 0,455 0,380 0,078 0,306	0,5270	0,455	0,380	0,078	0,306	1																				
EST	-0,001876 0,1433 0,298 0,236 0,303 0,320 0,176	0,1433	0,298	0,236	0,303	0,320	0,176	1																			
FIN	0,3679221 0,4516 0,374 0,189 0,159 0,138 0,482 0,146	0,4516	0,374	0,189	0,159	0,138	0,482	0,146	1																		
FRA	0,3040116 0,5778 0,594 0,321 0,204 0,290 0,428 0,2	0,5778	0,594	0,321	0,204	0,290	0,428	0,210	10 0,399	1																	
GER	0,3132517 0,6229 0,438 0,385 0,217 0,107 0,554 0,154 0,475 0,538	0,6229	0,438	0,385	0,217	0,107	0,554	0,154	0,475	0,538	1																
GRC	-0,053616 0,2568 0,162 0,119 0,342 0,244 0,112 0,1	0,2568	0,162	0,119	0,342	0,244	0,112		0,145	17 0,145 0,286 0,258	0,258	1															
HUN	$0,1873963 \mid 0,4111 \mid 0,388 \mid 0,213 \mid 0,262 \mid 0,081 \mid 0,228 \mid 0,169 \mid 0,285 \mid 0,469 \mid 0,480 \mid 0,312 \mid 0,187 \mid$	0,4111	0,388	0,213	0,262	0,081	0,228	0,169	0,285	0,469	0,480	0,312	1														
IRL	0,3039261 0,6076 0,608 0,439 0,165 0,218 0,566 0,251 0,470 0,675 0,651 0,143 0,436	0,6076	0,608	0,439	0,165	0,218	0,566	0,251	0,470	0,675	0,651	0,143	0,436	1													
ITA	$0.1822935 \boxed{0.4563} \boxed{0.390} \boxed{0.384} \boxed{0.030} \boxed{0.232} \boxed{0.527} \boxed{0.204} \boxed{0.383} \boxed{0.548} \boxed{0.517} \boxed{0.210} \boxed{0.281} \boxed{0.634} \boxed{0.581} \boxed{0.581} \boxed{0.634} \boxed{0.581} \boxed{0.581} \boxed{0.634} \boxed{0.581} \boxed{0.581} \boxed{0.634} \boxed{0.581} \boxed{0.581} \boxed{0.634} \boxed{0.581} \boxed{0.634} \boxed{0.634}$	0,4563	0,390	0,384	0;030	0,232	0,527	0,204	0,383	0,548	0,517	0,210	0,281),634	1												
LTV	0,3857427 0,2550 0,185 0,161 0,184 0,219 0,229 0,052 0,315 0,165 0,206 0,036 0,127 0,129 0,044	0,2550	0,185	0,161	0,184	0,219	0,229	0,052	0,315	0,165	0,206	0,036	0,127),129 (),044	1											
LTH	0,1113652 0,4011 0,483 0,467 0,205 0,334 0,532 0,182 0,313 0,463 0,351 0,128 0,180 0,609 0,568 0,108	0,4011	0,483	0,467	$0,205_{ }$	0,334	0,532	0,182	0,313	0,463	0,351	0,128	0,180),609 (),568),108	1										
TOX	0,0637784 0,3059 0,284 0,265 0,218 0,207 0,301 0,233 0,249 0,364 0,238 0,203 0,303 0,350 0,271 0,176 0,259	0,3059	0,284	0,265	0,218	0,207	0,301	0,233	0,249	0,364	0,238	0,203	0,303	0,350),271),176(),259	_									
MLT	0,1188692 0,3021 0,342 0,298 0,294 0,268 0,307 0,235 0,209 0,216 0,227 0,038 0,096 0,389 0,274 0,222 0,464 0,269	0,3021	0,342	0,298	0,294	0,268	0,307	0,235	0,209	0,216	0,227	0,038	0,096	0,389 (),274 (),222 (),464 (0,269									
NTH	0,3442938 0,7248 0,514 0,388 0,089 0,166 0,533 0,144 0,498 0,668 0,686 0,215 0,426 0,735 0,589 0,251 0,486 0,293 0,307	0,7248	0,514	0,388	0,089	0,166	0,533	0,144	0,498	0,668	0,686	0,215	0,426	0,735),589 (),251 (),486 (0,293 (,307	1							
POL	0,3329464 0,6275 0,542 0,434 0,151 0,150 0,507 0,204 0,476 0,622 0,707 0,260 0,389 0,721 0,466 0,126 0,430 0,327 0,298 0,665	0,6275	0,542	0,434	0,151	0,150	0,507	0,204	0,476	0,622	0,707	0,260	0,389	0,721),466),126(),430 (0,327),298 (),665	_						
PRT	$0.2802202 \\ 0.6177 \\ 0.657 \\ 0.540 \\ 0.186 \\ 0.280 \\ 0.583 \\ 0.583 \\ 0.208 \\ 0.583 \\ 0.204 \\ 0.462 \\ 0.641 \\ 0.604 \\ 0.158 \\ 0.416 \\ 0.158 \\ 0.416 \\ 0.798 \\ 0.553 \\ 0.203 \\ 0.617 \\ 0.398 \\ 0.471 \\ 0.670 \\ 0.693 \\$	0,6177	0,657	0,540	0,186	0,280	0,583	0,264	0,462	0,641	0,604	0,158	0,416	0,798),553 (),203 (),617	3,398	,471),670 C	,693	1					
ROM	0,2583440 0,4669 0,462 0,167 0,118 0,227 0,467 0,262 0,400 0,475 0,493 0,178 0,375 0,535 0,468 0,244 0,295 0,295 0,272 0,509 0,494 0,498	0,4669	0,462	0,167	0,118	0,227	0,467	0,262	0,400	0,475	0,493	0,178	0,375),535 (),468 (),244 (),295 (),295 (),272 (),509 (,494 0	,498	-				
SVK	0,1608705 0,3893 0,324 0,364 0,123 0,268 0,386 0,182 0,212 0,293 0,312 0,094 0,218 0,415 0,337 0,296 0,376 0,252 0,310 0,375 0,296 0,483 0,255	0,3893	0,324	0,364	0,123	0,268	0,386	0,182	0,212	0,293	0,312	0,094	0,218	0,415),337 (),296(),376 (0,252 (310 (),375 C	,296	,483 0	,255				
SVN	0,01172 0,3684 0,389 0,291 0,306 0,243 0,364 0,252 0,215 0,312 0,335 0,215 0,205 0,376 0,368 0,079 0,497 0,245 0,343 0,319 0,319 0,456 0,221 0,329	0,3684	0,389	0,291	0,306	0,243	0,364	0,252	0,215	0,312	0,335	0,215	0,205	0,376),368 (),079),497 (),245 (,343 (),319 C	,319 0	,456 0	,221 0	,329	1		
ESP	0,3366945 0,6506 0,579 0,471 0,189 0,179 0,552 0,172 0,482 0,720 0,720 0,191 0,433 0,855 0,662 0,176 0,557 0,321 0,309 0,770 0,719 0,793 0,545 0,425 0,370	0,6506	0,579	0,471	0,189	0,179	0,552	0,172	0,482	0,720	0,720	0,191	0,433	0,855 (),662),176(),557 (0,321	309(),770 C	,719 0	,793 0	,545 0	,425 0	370	1	
SWE	0,1393565 0,5427 0,413 0,375 0,060 0,238 0,557 0,156 0,386 0,542 0,503 0,197 0,364 0,600 0,446 0,120 0,433 0,328 0,151 0,577 0,571 0,563 0,418 0,258 0,292 0,548	0,5427	0,413	0,375	0,060	0,238	0,557	0,156	0,386	0,542	0,503	0,197	0,364	009,0),446),120),433	0,328),151),577 [,571	,563 0	,418	,2580	,292 0,	548	1

Table 2. Uncertainty Index correlation between all European Union countries

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Sample: 2008m8 thru 2022m12

Number of obs = 173

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-663.067				.027502	7.758	7.81715	7.90381
1	-565.919	194.3	16	0.000	.010764	6.81987	6.99734*	7.25732*
2	-545.73	40.378	16	0.001	.01026	6.77144	7.06723	7.50053
3	-531.146	29 167	16	0.023	.010438	6.78782	7.20192	7.80854
4	-511.057	40 179	16	0.001	.009972	6.74054	7.27295	8.05289
5	-486.488	49.138	16	0.000	.009054	6.64147	7.2922	8.24546
6	-458.912	55.151*	16	0.000	.007949*	6.50765*	7.27669	8.40327

* optimal lag

Endogenous: Unemploymentrate dLTGBY10Y Inflation UIAUT Exogenous: UIGER _cons

Table 1.4. Austria – Varsoc

Eigenvalue stability condition

Eigenv	alue	Modulus
4676055 +	.7914339 <i>i</i>	.919251
- 4676055 -	.7914339 <i>i</i>	.919251
.4629196 +	7832576 <i>i</i>	.909828
.4629196 -	.7832576 <i>i</i>	.909828
8738819 +	.0360407 <i>i</i>	.874625
.8738819 -	.0360407 <i>i</i>	.874625
09487648 +	8395095 <i>i</i>	.844854
09487648 -	.8395095 <i>i</i>	.844854
313162 +	.7517101 <i>i</i>	.814333
- 313162 -	.7517101 <i>i</i>	.814333
.6902929 +	.4123545 <i>i</i>	.804077
.6902929 -	.4123545 <i>i</i>	.804077
7878991		.787899
7304775 +	.253908 <i>i</i>	.773348
- 7304775 -	.253908 <i>i</i>	.773348
.74421		.74421
.5238298 +	.5281052 <i>i</i>	.743836
.5238298 -	.5281052 <i>i</i>	.743836
.280052 +	.6395593 <i>i</i>	.698187
280052 -	.6395593 <i>i</i>	.698187
6980468		.698047
3167053 +	.5323623 <i>i</i>	.619445
3167053 -	.5323623 <i>i</i>	.619445
1180394		.118039
L		L

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Lagrange-multiplier test

Table 1.5. Austria – Varstable

lag	chi2	df	Prob > chi2
1 2	13.1043	16	0.66512
	18.4378	16	0.29889

H0: no autocorrelation at lag order

Table 1.6. Austria – Varlmar

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4)
Step	fevd	Lower	Upper	fevd	Lower	Upper	fevd	Lower	Upper	fevd	Lower	Upper
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	.977605	934004	1.02121
2	.001721	00864	.012083	.000095	002718	.002907	.006301	- 015773	.028375	.955216	895679	1.01475
3	.002685	012755	.018126	.006557	015449	.028563	.007373	014404	.02915	.947134	884734	1.00953
4	.008042	021661	.037744	.01254	014397	.039477	.012277	020523	.045077	.922815	851186	.994444
5	.008119	024774	.041012	.013339	012543	.039221	.028243	022014	.0785	917311	844505	.990117
6	.011213	032768	.055194	.023551	016004	.063106	.036203	02066	.093067	.891463	.810441	.972485
7	.013685	037828	.065198	.027554	016226	.071335	.031747	018814	.082308	.877174	.794399	.959949
8	.016935	042893	.076763	.027442	014848	.069731	.035832	017734	.089399	.873511	789651	.957372
9	.017379	045542	.080301	.0272	014706	.069105	.035086	016851	.087022	.868785	782595	.954974
10	.018194	048413	.084802	.028261	012287	.068809	.037229	018632	.093089	.860535	770225	.950845
11	.018195	049552	.085943	.028358	012276	.068991	.043664	018841	.106169	859715	768977	.950454
12	.018577	051362	.088515	.028052	011576	.067681	.046163	018799	.111126	.858372	.766825	,949919

- (1) irfname = IRF212, impulse = UIAUT, and response = Unemploymentrate.
- (2) irfname = IRF212, impulse = UIAUT, and response = dLTGBY10Y.
- (3) irfname = IRF212, impulse = UIAUT, and response = Inflation.
- (4) irfname = IRF212, impulse = UIAUT, and response = UIAUT.

Table 1.7. Austria – Table FEVD

Step	(1) dm	(1) Lower	(1) Upper	(2) dm	(2) Lower	(2) Upper	(3) dm	(3) Lower	(3) Upper	(4) dm	(4) Lower	(4) Upper
0	043172	106614	.020271	.039593	.015832	.063353	.031878	02062	.084375	,424231	055009	.90347
1	02982	071	.01136	.009507	.001662	.017352	.037752	.014163	.061341	065932	- 219947	.088083
2	024447	06154	.012645	001678	009596	.00624	007329	- 032042	.017383	.038488	109038	.186014
3	016203	052959	.020553	.000914	006564	.008391	.006449	- 011472	.024369	.115642	045002	.276286
4	033607	065298	001917	.005894	001492	.013281	.008688	- 011114	.02849	.002766	- 134726	.140259
5	002196	027253	.022861	003338	013128	.006453	.013585	- 005542	.032712	.145059	013161	.303279
6	002416	026969	.022137	007919	018747	.00291	.005368	024055	.034791	.120626	- 022316	.263569
7	00497	027106	.017165	.003898	002657	.010453	.007721	007101	.022544	.028607	062339	.119553
8	- 008332	026616	.009952	.00133	004176	.006836	005478	025006	.014049	008368	088174	.071438
9	.001042	016848	.018931	00258	008207	.003047	002038	- 014133	.010056	.04885	029709	12741
10	008294	025847	.00926	001758	006793	.003277	.005602	007897	.019101	.027406	036244	.091056
11	009789	025565	.005987	.003205	002463	.008873	.002161	009568	.013891	0262	091974	.039575
12	007225	021522	.007072	.001405	002724	.005535	.006182	010338	.022702	.010709	041236	.062654

95% lower and upper bounds reported.

- (1) irfname = IRF212, impulse = UIGER, and response = Unemploymentrate.
- (2) irfname = IRF212, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF212, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF212, impulse = UIGER, and response = UIAUT.

Table 1.8. Austria – Table Dynamic Multiplier

• BELGIUM

Sample: 2008m6 thru 2022m12 Number of obs = 175

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-462.57				.002545	5.37795	5.43663	5.52262
1	-407.364	110.41	16	0.000	.001626	4.92987	5.10592	5.3639*
2	-369.786	75.155	16	0.000	.001271	4.68327	4.97669	5.40665
3	-342.186	55.201*	16	0.000	.001114*	4.55069*	4.96149*	5.56343
4	-331.242	21.887	16	0.147	.001183	4.60848	5.13664	5.91057

* optimal lag

 ${\tt Endogenous:} \ \, {\tt dUnemploymentrate} \ \, {\tt dLTGBY10Y} \ \, {\tt Inflation} \ \, {\tt UIBEL}$

Exogenous: UIGER _cons

Table 2.4. Belgium – Varsoc

Eigenvalue stability condition

Eigen	/alue	Modulus
.4764886 +	.699036i	.845986
4764886 -	.699036 <i>i</i>	.845986
.7647861		.764786
7430688		.743069
3716029 +	.5233908 <i>i</i>	.641893
3716029 -	.5233908 <i>i</i>	.641893
.6310745 +	.02894741 <i>i</i>	.631738
.6310745 -	.02894741 <i>i</i>	.631738
- 0975546 +	.6191707 <i>i</i>	.626809
0975546 -	.6191707 <i>i</i>	.626809
.3871237 +	.3629371 <i>i</i>	.530649
.3871237 -	.3629371 <i>i</i>	.530649
1973467 +	.3953648 <i>i</i>	.441881
1973467 -	.3953648 <i>i</i>	.441881
4298656		.429866
00522316		.005223

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

 $Table\ 2.5.\ Belgium-Varstable$

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	22.0746	16	0.14080
	13.6366	16	0.62576

H0: no autocorrelation at lag order

Table 2.6. Belgium – Varlmar

(4)	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	irf	Upper	Lower	irf	Upper	Lower	irf	Upper	Lower	irf	Step
:	1	1	0	0	0	0	0	0	0	0	0	0
.38198	.092899	.237442	.011494	015558	002032	.000085	014267	007091	.000909	010599	004845	1
.40778	.119683	263734	.004293	022524	009115	.006382	008262	00094	.010494	00314	.003677	2
.3836	.092771	.23821	.019233	006769	.006232	.006134	008181	001023	.017322	.003497	.01041	3
.278962	004315	.137323	.011208	014309	00155	007686	005796	.000945	013269	000273	006498	4
.21580	010014	.102895	.003343	013835	005246	.003349	004906	000779	008452	004063	.002194	5
.233620	.009892	.121759	.006939	009822	001442	.002145	003894	000874	.002031	008405	003187	6
.17360	028814	.072396	.005468	010707	002619	002497	003247	000375	000538	005995	- 002729	7
.14107	0289	.056086	.004642	007461	00141	.00221	002471	00013	.002056	003717	000831	8
10536	047721	.028822	.005476	004223	.000627	.001592	- 001612	-9.8e-06	.004816	00076	.002028	9
.08596	051901	.017032	.004274	004238	.000018	.00145	001244	.000103	.004589	.000012	.002301	10
.07391	041837	.016039	.003079	003403	000162	.001048	00122	000086	.003512	001098	.001207	11
.070343	030347	.019997	.002	002912	000456	.000707	001027	00016	.00153	002855	000662	12

- (1) irfname = IRF313, impulse = UIBEL, and response = dUnemploymentrate.
- (2) irfname = IRF313, impulse = UIBEL, and response = dLTGBY10Y.
- (3) irfname = IRF313, impulse = UIBEL, and response = Inflation.
- (4) irfname = IRF313, impulse = UIBEL, and response = UIBEL.

Table 2.7. Belgium – Table FEVD

	(4)	(4)	(4)	(2)	(2)	(2)	(2)	(2)	(2)	(4)	/ 43	
	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4)
Step	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper
0	014877	036444	.00669	.040292	.013396	.067187	.066173	.015474	.116872	.874831	.333055	1.41661
1	018062	033056	003068	.005758	005659	.017174	.016004	004219	.036226	.215146	.011701	.418591
2	00978	020188	.000628	006188	018189	.005813	006614	025176	.011949	.177851	045306	.401009
3	.009584	004336	.023504	.003923	006161	.014008	.028723	.008838	.048607	.286795	.067156	.506434
4	.01277	002096	.027636	.007593	002034	017221	.021845	.000158	.043533	.263995	.062997	.464992
5	.008314	003141	.01977	.000185	006576	.006947	.001785	010504	.014074	.141086	.015068	.267104
6	0014	008878	.006077	000729	- 006228	.00477	.002283	009028	.013594	.193881	.070724	.317038
7	003872	01066	.002915	.001059	003788	005906	.003302	008485	.015088	.186613	.05446	.318767
8	003076	008482	.00233	.000743	003896	.005383	.000255	009353	.009863	.145762	.03475	.256774
9	.001592	003578	.006762	.000061	- 002754	.002876	.00105	005953	.008053	.090253	002712	.183217
10	.003973	001687	.009633	.000505	001805	.002814	.002082	004279	.008443	.068784	023656	.161223
11	.003735	001263	.008734	.000418	- 001731	.002568	.001424	004024	.006872	.053842	026853	.134537
12	.000738	002919	.004395	000045	001837	.001747	-6.7e-06	004356	.004343	.052889	015707	.121486

- (1) irfname = IRF313, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF313, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF313, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF313, impulse = UIGER, and response = UIBEL.

Table 2.8. Belgium – Table Dynamic Multiplier

• BULGARIA

Sample: 2008m5 thru 2022m12 Number of obs = 176

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	504.703				2.5e-09	-5.62163	-5.54856	-5.44149*
1	560.202	111	25	0.000	1.8e-09*	-5.96821*	-5.71248*	-5.33771
2	579.786	39.168	25	0.035	1.9e-09	-5.90666	-5.46828	-4.82582
3	601.672	43.771*	25	0.012	1.9e-09	-5.87127	-5.25022	-4.34007

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UIBUL BGNEUR

Exogenous: UIGER _cons

Table 3.4. Bulgaria - Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.8428964	.842896
.7239596	.72396
3716467 + .4877296 <i>i</i>	.61319
37164674877296 <i>i</i>	.61319
1794867 + .5396703 <i>i</i>	.568735
- 17948675396703 <i>i</i>	.568735
.07521116 + .5383582 <i>i</i>	.543586
.075211165383582 <i>i</i>	.543586
.5363245	.536325
.4734027 + .1862588 <i>i</i>	.508726
.47340271862588 <i>i</i>	.508726
- 2440434 + .3119567 <i>i</i>	.396073
24404343119567 <i>i</i>	.396073
3376419 + .05693582 <i>i</i>	.342409
337641905693582 <i>i</i>	.342409

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 3.5. Bulgaria – Varstable

Lagrange-multiplier test

lag	chi2	d f	Prob > chi2
1	25.9748	25	0.40894
2	24.1254	25	0.51214

H0: no autocorrelation at lag order

Table 3.6. Bulgaria – Varlmar

.	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4)
Step	fevd	Lower	Upper	fevd	Lower	Upper	fevd	Lower	Upper	fevd	Lower	Uppe
0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	.976908	.933045	1.02077
2	.003321	011838	.018481	.000855	007621	.009331	024638	018518	.067794	.932991	.859389	1.00659
3	.003205	011765	.018174	.005167	01424	.024573	.027918	020872	.076709	.900692	.809803	.991582
4	.003242	- 011974	018457	.010071	- 01725	037393	.036214	014513	.086941	.86952	.764752	974288
5	.003266	013003	019534	.013895	- 01712	.04491	.036118	014774	.08701	.850825	732899	968752
6	.003224	- 013131	019578	.01421	016797	.045217	.03642	014072	.086912	.83553	.706063	964997
7	.003214	- 013473	.019901	.014547	016864	045957	.037073	013937	.088083	.821234	.680925	961544
8	.003195	013492	.019883	.014542	016868	045952	.03711	013875	.088095	.811593	.663	.960186
9	.003192	- 013217	.019602	.014713	- 01677	.046196	.037311	013799	088421	.804311	.648913	.95971
10	.003188	- 013057	.019434	.014795	016787	.046378	.037417	013801	.088635	.798837	637873	.959801
11	.00319	- 012888	.019269	.014812	016752	.046377	037449	013793	.088691	.795021	629769	.960273
12	.0032	012702	.019102	.014871	016737	.046479	.037495	013789	.088778	.792206	.623504	.960908

Step	(5) fevd	(5) Lower	(5) Upper
0	0	0	0
1	.001796	01056	.014152
2	.03365	018427	085728
3	.033206	- 018216	084629
4	.033153	01716	.083467
5	.0351	- 017284	.087484
6	.035063	- 017291	.087416
7	.035076	01729	.087443
8	.035002	- 017306	.08731
9	034977	- 017299	087253
10	.034997	- 017311	087305
11	.034984	017318	.087285
12	.034981	017322	.087285

95% lower and upper bounds reported.

- (1) irfname = IRF414, impulse = UIBUL, and response = dUnemploymentrate.
- (2) irfname = IRF414, impulse = UIBUL, and response = dLTGBY10Y.
- (3) irfname = IRF414, impulse = UIBUL, and response = Inflation.
- (4) irfname = IRF414, impulse = UIBUL, and response = UIBUL.
- (5) irfname = IRF414, impulse = UIBUL, and response = BGNEUR.

Table 3.7. Bulgaria – Table FEVD

(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Step
.73541	631577	.05192	.165839	.029111	.097475	.079819	00784	.03599	.044816	018668	.013074	0
.40009	027857	.186118	.048981	000847	024067	.00919	014876	002843	.01809	01214	.002975	1
.33888	- 128205	.105339	.03175	005116	013317	.027667	.00164	014654	.007873	010179	001153	2
.39189	05142	.170237	.030103	006956	011573	.021983	006105	.007939	.008601	00868	000039	3
.24909	004797	.122151	.018804	002007	.008399	.010224	003013	.003606	.005207	006232	000513	4
.25210	.001804	126953	.012109	004397	.003856	.009406	001262	.004072	.003071	006419	001674	5
22238	000105	.11114	.009805	005435	.002185	.006711	000832	.002939	.003013	005579	001283	6
.18244	.004744	.093595	.007617	004165	.001726	.004545	001449	.001548	.0025	004531	- 001015	7
.16441	.002739	.083578	.006189	003286	.001452	.003972	000791	.001591	.001992	004275	001141	8
.14079	000696	.070048	.004753	003242	.000755	.003023	000831	.001096	.001772	003796	001012	9
12054	002325	.059108	.004011	002702	.000655	.002411	000829	.000791	.001608	00324	000816	10
.10675	004706	.051023	.003495	002276	.00061	.002152	000679	.000736	.001469	002921	000726	11
.0920	007114	.042478	.002863	002065	.000399	.001759	000623	.000568	.001325	002597	000636	12

Step	(5) dm	(5) Lower	(5) Upper
0	-3.5e-06	000047	.00004
1	-7.9e-06	000022	6.3e-06
2	-2.6e-06	000015	9.8e-06
3	-7.7e-07	000013	.000012
4	-1.7e-06	-7.6e-06	4.2e-06
5	1.1e-06	-3.2e-06	5.5e-06
6	1.7e-06	-2.4e-06	5.8e-06
7	8.9e-07	-2.1e-06	3.9e-06
8	1.0e-06	-1.2e-06	3.2e-06
9	1.2e-06	-8.3e-07	3.1e-06
10	8.4e-07	-7.8e-07	2.5e-06
11	7.2e-07	-6.5e-07	2.1e-06
12	6.6e-07	-5.5e-07	1.9e-06

- (1) irfname = IRF414, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF414, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF414, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF414, impulse = UIGER, and response = UIBUL.
- (5) irfname = IRF414, impulse = UIGER, and response = BGNEUR.

Table 3.8. Bulgaria – Table Dynamics Multiplier

• CROATIA

Sample: 2008m7 thru 2022m11

Number of obs = 173

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	286.624				2.8e-08	-3.19797	-3.12402	-3.01569
1	376.883	180.52	25	0.000	1.3e-08*	-3.9524*	-3.69359*	-3.31445*
2	401.331	48.897	25	0.003	1.3e-08	-3.94603	-3.50235	-2.8524
3	415.619	28.575	25	0.282	1.5e-08	-3.82218	-3.19364	-2.27288
4	438.565	45.893	25	0.007	1.6e-08	-3.79844	-2.98503	-1.79346
5	464.577	52.025*	25	0.001	1.5e-08	-3.81014	-2.81187	-1.34948

* optimal lag

 ${\tt Endogenous:} \ \, {\tt dUenmploymentrate} \ \, {\tt dLTGBY10Y} \ \, {\tt Inflation} \ \, {\tt UICRO} \ \, {\tt dHRKEUR}$

Exogenous: UIGER _cons

Table 4.4. Croatia – Varsoc

Eigenvalue stability condition

Eige	env	/alue	Modulus
2191601	+	.818716 <i>i</i>	.847542
2191601	-	818716 <i>i</i>	.847542
.5894623	+	.5795706 <i>i</i>	.826661
.5894623	-	.5795706 <i>i</i>	.826661
.7016914	+	.4121432 <i>i</i>	.813777
.7016914	_	.4121432 <i>i</i>	.813777
6341936	+	.498415 <i>i</i>	.80661
6341936	-	.498415 <i>i</i>	.80661
.7800322	+	02001125 <i>i</i>	.780289
.7800322	-	.02001125 <i>i</i>	.780289
.330629	+	.6909745 <i>i</i>	.766003
.330629	-	.6909745 <i>i</i>	.766003
.2337796	+	.7046595 <i>i</i>	.742427
.2337796	-	.7046595 <i>i</i>	.742427
7366534			.736653
524488	+	.3727937 <i>i</i>	.643477
524488	-	3727937 <i>i</i>	.643477
3233537	+	.5518397 <i>i</i>	.639597
3233537	_	.5518397 <i>i</i>	.639597
5418487	+	.2217489 <i>i</i>	.585468
5418487	-	.2217489 <i>i</i>	.585468
.440516	+	.2287796 <i>i</i>	.496381
.440516	_	.2287796 <i>i</i>	.496381
.1823768	+	.2002079i	.270822
.1823768	-	.2002079 <i>i</i>	.270822

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 4.5. Croatia – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1 2	40.4847	25	0.02599
	16.0154	25	0.91437

Table 4.6. Croatia – Varlmar

ер	(1) irf	(1) Lower	(1) Upper	(2) irf	(2) Lower	(2) Upper	(3) irf	(3) Lower	(3) Upper	(4) irf	(4) Lower	(4 Uppe
ch	111	Lower	оррет	111	Lower	оррег	111	Lower	оррег	111	Lower	oppei
0	0	0	0	0	0	0	0	0	0	1	1	1
1	001905	00828	.00447	000551	009339	.008237	.003743	009933	.017418	.139103	005566	.283773
2	006851	015382	.00168	.004066	004541	.012672	001079	016551	.014394	.017439	129049	.163927
3	004761	013727	.004204	.001788	00656	.010136	005361	020374	.009652	.122816	021123	.266755
4	006472	015072	.002129	000376	008717	.007964	.00314	011596	.017876	01542	- 15948	.128639
5	008196	016587	.000196	.002649	005557	.010855	000329	014662	.014003	.313927	.174343	.45351
6	006176	013761	.001409	.001005	003243	.005253	001547	011726	.008631	.067422	042753	.177597
7	004781	010801	001239	.000547	003454	.004548	000952	008271	.006368	.027052	- 078346	.132449
8	002177	007105	.002752	.001862	001708	.005432	002005	008371	.004361	.069842	028613	168297
9	000804	005549	.003941	000253	003294	.002788	.000726	004505	.005957	010203	- 107301	.086894
10	001384	005877	.003109	.000271	002277	.002819	00103	005599	.003538	.092865	000281	.186011
11	001787	005779	.002205	.000383	001666	.002431	000871	004433	.00269	.023319	045715	.092353
12	002433	005936	.001069	.000481	00127	.002232	000578	003615	.002459	.008192	- 055403	071788

	(5)		(5)	(5)
	irf	Lo	wer	Upper
	0		0	
6	00029	000	9056	-2.5e-06
. 6	00014	000	013	.000041
-4	1e-06	00	0003	.000022
-8	3e-06	000	034	.000017
-5	8e-06	000	032	.00002
-5	6e-06	000	021	9.6e-06
3	8e-06	000	011	.000018
2	4e-06	000	011	.000016
1.	6e-06	000	012	.000015
-1	7e-06	000	013	9.7e-06
-2	2e-06	-8.9€	-06	4.5e-06
7	1e-07	-5.26	-06	6.6e-06

- (1) irfname = IRF51, impulse = UICRO, and response = dUenmploymentrate.
- (2) irfname = IRF51, impulse = UICRO, and response = dLTGBY10Y.
- (3) irfname = IRF51, impulse = UICRO, and response = Inflation.
- (4) irfname = IRF51, impulse = UICRO, and response = UICRO.
- (5) irfname = IRF51, impulse = UICRO, and response = dHRKEUR.

Table 4.7. Croatia – Table FEVD

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4)
Step	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper
0	002586	032124	.026952	.050858	.010142	.091574	.070491	.00713	.133852	.708173	.037904	1.37844
1	.002626	022091	.027342	004258	018252	.009737	.052588	.018487	.08669	.348952	.097055	.600848
2	.000698	016551	.017947	.000114	013716	.013944	.01558	007387	.038546	- 1879	46102	.08522
3	002927	- 015268	.009413	.013725	000487	.027937	.007962	015204	.031128	.126186	- 118034	.370406
4	005628	- 021588	.010332	.012424	001544	.026393	.004279	- 020151	.028709	072514	- 296735	.151708
5	000802	- 017687	.016082	01628	035136	.002577	013719	039673	012236	.301465	.059056	.543874
6	.000854	- 012443	.01415	001264	011369	.008842	017716	041412	.005981	.097055	055688	.249798
7	.000978	008781	.010737	.003575	005342	.012491	00493	021404	.011544	.005207	137475	.147889
8	.002848	- 006245	.011942	003664	013262	.005934	007879	- 023543	007785	.084388	032666	.201441
9	.002769	005451	.01099	007761	016953	.001432	003528	016085	.009028	.007186	092592	.106963
10	002148	009128	.004831	.005173	003205	.013551	.002621	007963	.013206	.07082	023763	.165403
11	003889	009967	.002189	.002108	00383	.008046	.004506	005683	.014695	.055744	015269	.126757
12	003627	008632	.001379	002367	008027	.003294	.001729	006322	.00978	.006142	052736	.06502

	(5)	(5)	(5)
Step	dm	Lower	Upper
0	.00007	000053	.000194
1	000035	00009	.00002
2	.000015	000031	.00006
3	-3.5e-07	000041	.00004
4	7.8e-06	00004	.000056
5	000034	000081	.000013
6	000014	000044	.000016
7	4.6e-06	000018	.000027
8	-3.6e-06	000026	.000019
9	00001	000032	.000011
10	5.9e-06	000013	.000024
11	-8.1e-07	000013	.000011
12	-3.1e-06	000013	7.3e-06
	l		

95% lower and upper bounds reported.

- (1) irfname = IRF51, impulse = UIGER, and response = dUenmploymentrate.
- (2) irfname = IRF51, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF51, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF51, impulse = UIGER, and response = UICRO.
- (5) irfname = IRF51, impulse = UIGER, and response = dHRKEUR.

Table 4.8. Croatia – Table Dynamic Multiplier

• CYPRUS

Sample: 2008m5 thru 2022m12 Number of obs = 176

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-1032.08				26.6492	11.7964	11.8402	11.9045
1	-986.485	91.194	9	0.000	17.5829	11.3805	11.4901*	11.6507*
2	-979.482	14.007	9	0.122	17.9889	11.4032	11.5786	11.8355
3	-959.335	40.294*	9	0.000	15.8535*	11.2765*	11.5176	11.871

* optimal lag

Endogenous: dUnemploymentrate Inflation UICYP

Exogenous: UIGER _cons

Table 5.3. Cyprus – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.822165	.822165
.4676842 + .4868092 <i>i</i>	.675064
.46768424868092i	.675064
296827 + .554627 <i>i</i>	.629061
296827554627 <i>i</i>	.629061
6143307	.614331
.4045038 + .2198883 <i>i</i>	.460407
.4045038 - .2198883 <i>i</i>	.460407
3694156	.369416

All the eigenvalues lie inside the unit circle VAR satisfies stability condition.

Table 4.5. Cyprus -Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	9.8987	9	0.35875
2	9.7051	9	0.37489

H0: no autocorrelation at lag order

Table 5.5. Cyprus -Varlmar

(3	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Step
	0	0	0	0	0	0	0	0	0
1.0190	.916045	.967547	0	0	0	0	0	0	1
1.0192	.89393	.9566	.004154	003731	.000212	.032238	015233	.008503	2
1.0213	.888467	.954887	.00742	005824	.000798	.089136	018452	.035342	3
1.0134	.834555	.923989	.02124	010819	.00521	.088222	014893	.036665	4
1.0155	.810778	.913157	.023772	012451	.005661	.08808	014881	.0366	5
1.0173	.795075	.906219	.026023	014032	.005995	.089633	015727	.036953	6
1.0183	.780547	.899448	.027231	014728	.006252	.089803	015156	.037324	7
1.0192	.772335	.895791	.027716	014978	.006369	.089723	014998	.037362	8
1.0199	.767642	.893787	.027769	015002	.006384	.089766	015037	.037365	9
1.0204	.763748	.892091	.028026	015105	.006461	.089753	014941	.037406	10
1.0208	.761296	.891067	.028183	015178	.006502	.089729	014892	.037419	11
1 0211	.759697	.890411	.028328	015257	.006536	.089722	014884	.037419	12

- (1) irfname = IRF6, impulse = UICYP, and response = dUnemploymentrate.
- (2) irfname = IRF6, impulse = UICYP, and response = Inflation.
- (3) irfname = IRF6, impulse = UICYP, and response = UICYP.

Table 5.6. Cyprus – Table FEVD

(3) Uppe	(3) Lower	(3) dm	(2) Upper	(2) Lower	(2) dm	(1) Upper	(1) Lower	(1) dm	Step
2.1088	-1.36012	.374382	.189352	003442	.092955	.017484	053045	017781	0
.751398	261664	.244867	.05773	00269	.02752	.007844	- 023468	007812	1
.53937	305317	.117031	.04346	004784	.019338	.006099	015428	004664	2
1.0620	297559	.382228	.00824	052158	021959	.003112	010475	003681	3
.560183	132198	.213992	.005412	034769	014678	.002994	006743	001875	4
458292	095114	.181589	.0043	031161	013431	.004414	003489	.000462	5
47825	128193	.175033	.006209	009402	001596	.002406	002387	9.4e-06	6
.339118	073486	.132816	.008629	006475	.001077	.002273	001654	.000309	7
25769	067091	.095301	.01128	004414	.003433	.001851	001472	.00019	8
.25097	065009	.092983	.004521	002585	.000968	.001134	00132	000093	9
.1925	050467	.071036	.002471	002639	000084	.000711	001092	000191	10
.158219	042206	.058006	.001509	003935	001213	.000549	000754	000103	11
.139939	040465	.049737	.000952	00301	001029	.000441	000651	000105	12

- (1) irfname = IRF6, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF6, impulse = UIGER, and response = Inflation.
- (3) irfname = IRF6, impulse = UIGER, and response = UICYP.

Table 5.7. Cyprus – Table Dynamic Multiplier

CZECH REPUBLIC

Sample: 2008m6 thru 2022m12 Number of obs = 175

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	410.161				7.1e-09	-4.57327	-4.49991*	-4.39242*
1	433.07	45.818	25	0.007	7.3e-09	-4.54937	-4.29262	-3.91641
2	464.543	62.947	25	0.000	6.8e-09	-4.62335	-4.18322	-3.53828
3	491.427	53.767	25	0.001	6.6e-09	-4.64487	-4.02135	-3.10769
4	521.187	59.52*	25	0.000	6.3e-09*	-4.69927*	-3.89236	-2.70998

 \ast optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UICZ dCZKEUR

Exogenous: UIGER _cons

Table 6.4. Czech Republic – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
3216367 + .723768 <i>i</i>	.792017
3216367723768i	.792017
.1547003 + .7553181 <i>i</i>	.770998
.15470037553181 <i>i</i>	.770998
- 4978942 + 5358598i	.731467
49789425358598 <i>i</i>	.731467
.5312928 + .4745397 <i>i</i>	712362
.53129284745397 <i>i</i>	712362
3927539 + .5852649 <i>i</i>	.704834
39275395852649 <i>i</i>	.704834
.6873798	.68738
5712569 + .1910333 <i>i</i>	.602352
57125691910333 <i>i</i>	.602352
.1945812 + .55824 <i>i</i>	.59118
.194581255824 <i>i</i>	.59118
.551154 + .2129884 <i>i</i>	.590876
.5511542129884 <i>i</i>	.590876
.5634704	.56347
08923145 + .09657925 <i>i</i>	.131491
0892314509657925 <i>i</i>	.131491
L	

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 6.5. Czech Republic – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1 2	47.1609	25	0.00469
	26.3332	25	0.38999

Table 6.6. Czech Republic – Varlmar

Step	(1) fevd	(1) Lower	(1) Upper	(2) fevd	(2) Lower	(2) Upper	(3) fevd	(3) Lower	(3) Upper	(4) fevd	(4) Lower	(4) Upper
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	.927119	.852954	1.00128
2	.014539	016547	045626	.011756	015665	.039176	.00355	012203	.019303	.885083	.792325	.97784
3	.013823	- 015627	043273	.01777	02022	.055761	.004098	- 011872	.020069	.860341	.762433	.958249
4	.012972	- 014185	040128	.018473	019325	.056271	.004772	- 012315	.02186	.851193	.750066	.952319
5	.013573	010649	.037796	.020206	021266	.061679	.015277	019071	.049625	.82223	.71866	.925799
6	.015159	010762	041079	.019778	020847	.060404	.015278	019026	.049582	.819929	.714383	.925476
7	.015865	010896	042626	.020009	020066	.060084	.01701	- 019236	.053256	.818227	.711756	.924698
8	.015986	010043	.042015	.019874	019659	.059407	.018066	019198	.055329	.815298	.707327	.923269
9	.015897	009959	041754	.020006	- 019625	.059638	.019831	- 020235	.059898	.813936	.705696	.922177
10	.015879	010141	041899	.020013	- 019651	.059677	.019842	- 020257	.059942	.813762	70533	.922193
11	.015881	010044	.041806	.020146	01961	.059902	.019854	020249	.059956	.812986	.704265	.921707
12	.015915	- 009972	.041803	.02017	019677	.060017	.020121	020355	.060597	.812794	.704046	921542

	(5)	(5)	(5)
Step	fevd	Lower	Upper
0	0	0	0
1	.012501	019732	.044735
2	.013692	- 019304	.046688
3	.018732	020504	.057969
4	.018812	020621	.058246
5	.025147	016853	.067148
6	.025346	016644	.067335
7	.027253	016681	.071187
8	.027264	016714	.071242
9	.027314	016843	.071472
10	.02741	016891	.071712
11	.027523	016829	.071874
12	.027521	016827	.071869

- (1) irfname = IRF7, impulse = UICZ, and response = dUnemploymentrate.
- (2) irfname = IRF7, impulse = UICZ, and response = dLTGBY10Y.
- (3) irfname = IRF7, impulse = UICZ, and response = Inflation.
- (4) irfname = IRF7, impulse = UICZ, and response = UICZ.
- (5) irfname = IRF7, impulse = UICZ, and response = dCZKEUR.

Table 6.7. Czech Republic – Table FEVD

95% lower and upper bounds reported.

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4)
Step	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Uppe
0	009717	03895	.019516	.030435	.002382	.058488	.111249	.043221	. 179277	242753	784669	.299163
1	.007598	004755	.019952	.012053	000369	.024476	.012499	008638	.033635	.088294	- 104104	.280692
2	001828	013096	.00944	.001752	010876	.01438	.021507	000121	.043135	.212405	.01036	.414451
3	004746	019773	.01028	002608	01422	.009005	.023462	002929	.049852	.056431	- 112279	.225142
4	004918	015286	.005451	001106	010796	.008583	011809	035246	011628	.199589	- 051348	.450527
5	00099	008522	.006541	.003864	003001	.010729	.002843	010518	.016204	.029525	099879	.158928
6	000383	008541	.007775	.00033	004325	.004985	.000015	012732	012761	023872	131149	.083406
7	00132	007353	.004712	001321	006686	.004045	000509	012082	.011063	.024749	085366	.134865
8	.001239	00385	.006328	000268	003659	.003123	.008411	00074	.017562	052316	- 142883	.038252
9	.000278	00346	.004015	.001333	00158	.004247	.000216	005021	.005452	013413	071552	.044726
10	00059	003652	.002471	.001716	00046	.003891	.000325	004167	.004818	.016771	033317	.06686
11	.000798	001849	.003445	000184	001935	.001567	.001623	002655	.005902	008085	053572	.037402
12	00014	00166	.001381	000721	00233	.000888	001312	004895	.002272	.010773	022645	.044191

Step	(5) dm	(5) Lower	(5) Upper
0	.000043	000039	.000124
1	-5.5e-06	00003	.000019
2	.000021	-8.9e-06	.000051
3	4.6e-06	000025	.000034
4	-6.2e-06	000032	.00002
5	-2.2e-06	000015	.000011
6	-7.0e-06	000019	4.8e-06
7	-3.1e-06	000013	6.3e-06
8	-1.9e-07	-8.0e-06	7.6e-06
9	7.6e-07	-4.0e-06	5.5e-06
10	1.7e-06	-2.1e-06	5.6e-06
11	1.1e-08	-2.9e-06	2.9e-06
12	-4.9e-08	-2.6e-06	2.5e-06
	l		

- (1) irfname = IRF7, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF7, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF7, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF7, impulse = UIGER, and response = UICZ.
- (5) irfname = IRF7, impulse = UIGER, and response = dCZKEUR.

Table 6.8. Czech Republic – Table Dynamic Multiplier

DENMARK

Sample: 2008m6 thru 2022m12 Number of obs = 175

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-678.987				.030191	7.85128	7.90997	7.99596*
1	-644.536	68.903*	16	0.000	.024453*	7.64041*	7.81646*	8.07444
2	-631.787	25.498	16	0.062	.025389	7.67756	7.97099	8.40094
3	-622.223	19.128	16	0.262	.027351	7.75112	8.16191	8.76385
4	-614.688	15.069	16	0.520	.030176	7.84787	8.37603	9.14995

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UIDNK

Exogenous: UIGER $_cons$ Table 7.4. Denmark-VarsocEigenvalue stability condition

Eigenv	alue	Modulus
.7296908		.729691
- 4492594 +	.5394689 <i>i</i>	.70204
- 4492594 -	.5394689 <i>i</i>	.70204
183558 +	.6233747 <i>i</i>	.649838
183558 -	.6233747 <i>i</i>	.649838
2851031 +	.5165105 <i>i</i>	.589972
2851031 -	.5165105 <i>i</i>	.589972
.2083516 +	.5311751 <i>i</i>	.570576
.2083516 -	.5311751 <i>i</i>	.570576
.4147524 +	.3894863 <i>i</i>	.568963
.4147524 -	.3894863 <i>i</i>	.568963
4862777 +	.1690032 <i>i</i>	.514809
- 4862777 -	.1690032 <i>i</i>	.514809
.3429207 +	.1339579 <i>i</i>	.368157
3429207 -	.1339579 <i>i</i>	.368157
.1292067		.129207

All the eigenvalues lie inside the unit circle. $\ensuremath{\mathsf{VAR}}$ satisfies stability condition.

Table 7.5. Denmark – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	6.4486	16	0.98249
2	24.3704	16	0.08172

Table 7.6. Denmark – Varlmar

	(4)		(2)	(2)	(2)	(2)	(2)	(2)	()	(4)	(4)	1
(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	- 1
Uppe	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Step
	0	0	9	0	0	0	0	0	0	0	0	0
1.0210	.937334	.97919	0	0	0	0	0	0	0	0	0	1
1.0223	.928522	.975454	.0484	0203	.01405	.017406	012121	.002643	.023316	013254	.005031	2
1.0231	.910549	.96683	.047944	020226	.013859	.04332	015391	.013965	.023843	013839	.005002	3
1.0182	.875292	.946749	.059003	022021	.018491	.043893	015904	.013995	.02399	013997	.004997	4
1.0144	.876001	.94521	.057032	021057	.017988	.076078	018254	.028912	.03313	016257	.008437	5
1.0142	.873812	.944013	.05815	020351	.018899	.079858	01826	.030799	.032481	015541	.00847	6
1.014	.871341	.943021	.057984	020312	.018836	.079838	018261	.030789	.032509	015369	.00857	7
1.0148	.87022	.942528	.058207	020272	.018967	.080557	018461	.031048	.032817	015553	.008632	8
1,0148	.86965	.942256	.058807	019727	01954	.081584	018609	.031488	.033212	01488	.009166	9
1.0149	.869479	.942195	.058985	019761	.019612	.081727	018629	.031549	.033208	014845	.009182	10
1.0149	.869361	.942145	.058986	019754	.019616	.081829	018669	.03158	.033214	014847	.009183	11
1.0149	.869304	.942118	.05905	019714	.019668	.081962	- 018689	.031637	033285	- 014817	.009234	12

- (1) irfname = IRF8, impulse = UIDNK, and response = dUnemployment rate.
- (2) irfname = IRF8, impulse = UIDNK, and response = dLTGBY10Y.
- (3) irfname = IRF8, impulse = UIDNK, and response = Inflation.
- (4) irfname = IRF8, impulse = UIDNK, and response = UIDNK.

Table 7.7. Denmark – Table FEVD

	(1)	(4)										
		(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4)
Step	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper
0	.04357	029289	.11643	.022757	00644	.051954	.072821	.007728	.137914	1,29309	.577268	2.00892
1	037202	094439	.020035	.008651	001956	.019258	.003171	020708	.02705	.242343	.010307	. 474378
2	.004918	023597	.033433	008226	020701	.004248	010656	036761	.015449	.114575	109071	.338222
3	.000376	028116	.028868	.001919	007667	.011504	.016426	004756	.037609	.152806	079992	385604
4	012026	044351	.020298	.006382	004125	.01689	.001201	026396	.028798	.153641	066856	.374137
5	.00026	017663	.018183	.00203	003802	.007862	001006	015503	013491	.076227	032431	184884
6	.001106	010324	.012536	.000311	003202	.003823	.001628	008434	.011689	.064479	020963	.14992
7	000921	010237	.008396	.000576	002395	.003547	001353	009352	.006646	.046701	042191	.135593
8	003254	010253	.003746	.000989	001672	.003649	.001795	005004	008594	.02758	040329	.095488
9	.000109	003928	.004145	.000556	00091	.002023	.001965	002066	.005996	.02233	- 023937	.068597
10	.000064	00286	.002988	.000289	000615	.001193	000218	003276	.00284	.018914	020366	.058194
11	000925	003208	.001359	.000341	000433	.001114	.000451	001673	.002575	.015954	013962	.045871
12	000082	001901	.001737	.000238	000425	.000901	.000452	001075	.00198	.007885	017498	.033268

95% lower and upper bounds reported.

- (1) irfname = IRF8, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF8, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF8, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF8, impulse = UIGER, and response = UIDNK.

Table 7.8. Denmark – Table Dynamic Multiplier

ESTONIA

Sample: 2008m4 thru 2022m12

Number of obs = 177

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0 1 2	-1027.03 -980.613 -974.149					11.6727 11.2499* 11.2785	11.359*	

* optimal lag

 ${\bf Endogenous:} \ \, {\bf dUnemploymentrate} \ \, {\bf Inflation} \ \, {\bf UIEST}$

Exogenous: UIGER _cons

Table 8.4. Estonia – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.6815258	.681526
.4579898 3062687	. 45799 . 306269
.1789238 + .1003724 <i>i</i>	.205154
.17892381003724 <i>i</i>	.205154
2013112	.201311

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 8.5. Estonia – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1 2	10.1119 5.7206	9	0.34150 0.76752

H0: no autocorrelation at lag order

Table 8.6. Estonia – Varlmar

(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Upper	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Step
(0	0	0	0	0	0	0	0	0
1.01352	.97995	.996734	0	0	0	0	0	0	1
1.02009	962212	.991152	.015312	010739	.002286	.005791	004925	.000433	2
1.00703	.875548	.941288	.023006	015115	.003946	.01971	013701	.003004	3
1.00684	.842739	.924792	.027914	018344	.004785	.027033	018402	.004315	4
1.00678	.820956	.913866	.030536	020093	.005221	.030285	020367	.004959	5
1.00754	810922	.909228	.031783	020926	.005428	.031568	021108	.00523	6
1.00825	.80547	.906861	.032403	021346	.005528	.032116	021417	.00535	7
1.00878	802753	.905765	.032703	021552	.005576	.032356	021552	.005402	8
1.00912	.801364	.90524	.03285	021654	.005598	.032465	021614	.005426	9
1.00932	800672	.904994	.032921	021704	.005608	.032516	021643	.005436	10
1.00943	.800327	.904879	032955	021729	005613	.032539	021656	.005441	11
1.00949	.800157	.904825	.032972	021741	.005615	.03255	021663	.005444	12

- (1) irfname = IRF9, impulse = UIEST, and response = dUnemploymentrate.
- (2) irfname = IRF9, impulse = UIEST, and response = Inflation.
- (3) irfname = IRF9, impulse = UIEST, and response = UIEST.

Table 8.7. Estonia – Table FEVD

(3	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Upper	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Step
1.79844	-1.6623	.06807	.14582	008709	.068555	.046326	060596	007135	0
.414142	249295	.082423	049497	002809	.023344	.020446	- 031772	005663	1
.786759	141909	.322425	.038288	000461	.018913	.006322	018528	006103	2
.44382	068981	.18742	.022171	000355	.010908	.003057	012424	004684	3
.371742	038093	.166825	.015562	000676	.007443	.002	009522	003761	4
.246813	023461	.111676	.010596	000937	.00483	.001492	006978	002743	5
.181929	018708	.08161	.007647	001146	.003251	.001187	005156	001984	6
.128197	016072	.056063	.005494	001142	.002176	.000945	003735	001395	7
.093009	014872	.039069	.004007	001065	.001471	.000757	002704	000974	8
.067028	013395	.026816	.002915	000924	.000995	.000601	001947	000673	9
.048727	011874	.018427	002124	000773	.000676	.000475	001402	000463	10
.035385	01017	.012608	.001543	000625	.000459	.000373	001008	000318	11
.025736	008494	.008621	.001119	000495	.000312	.00029	000725	000218	12

- (1) irfname = IRF9, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF9, impulse = UIGER, and response = Inflation.
- (3) irfname = IRF9, impulse = UIGER, and response = UIEST.

Table 8.8. Estonia – Table Dynamic Multiplier

• FINLAND

Sample: 2008m4 thru 2022m12

Number of obs = 177

Lag	LL	LR	d f	р	FPE	AIC	HQIC	SBIC
0	-731.668				.050103	8.35783	8.41605	8.50138
1	-591.015	281.3	16	0.000	.012252	6.94933	7.12399*	7.37999*
2	-567.93	46.17*	16	0.000	.011314*	6.86927*	7.16037	7.58704

* optimal lag

Endogenous: Unemploymentrate dLTGBY10Y Inflation UIFIN

Exogenous: UIGER _cons

Table 9.4. Finland – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.9214362	.921436
.3939191 + .1814128 <i>i</i>	.433685
.39391911814128 <i>i</i>	.433685
388103	.388103
334288	.334288
.3215173	.321517
- 2055106 + 2427068 <i>i</i>	.318027
20551062427068 <i>i</i>	.318027

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 9.5. Finland – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	37.5608	16	0.00175
2	21.5721	16	0.15755

Table 9.6. Finland – Varlmar

(/ Uppe	(4) Lower	(4) fevd	(3) Upper	(3) Lower	(3) fevd	(2) Upper	(2) Lower	(2) fevd	(1) Upper	(1) Lower	(1) fevd	Step
		0	0	0	0	0	0	0	0	0	0	0
1.0183	.965367	.99184	0	0	0	0	0	0	0	0	0	1
1.0198	.948049	.983948	.003613	003317	.000148	.039664	017132	.011266	.004808	004214	.000297	2
1.0194	947995	.983737	.006456	005497	.000479	.09549	02062	.037435	.013906	010588	.001659	3
1.0086	.907081	.957875	.014897	010824	.002036	.090813	019536	.035639	.020013	013979	.003017	4
1.008	.898617	.953409	.015097	010872	.002112	.090957	018597	.03618	.031495	019402	006046	5
1.0061	.892915	.949554	.017872	012387	.002743	.091123	018593	.036265	.039803	024023	.00789	6
1.0038	.888053	.945964	.017777	012279	.002749	.091626	018389	.036618	.045158	027059	.00905	7
1.0025	.88464	.943614	.018111	012397	.002857	.091652	018403	.036625	.049086	029188	.009949	8
1.0014	.882065	.941769	.018099	012388	.002856	.091652	018382	.036635	.052577	031072	.010753	9
1.0006	.879478	940046	.018157	012415	.002871	.091643	018383	.03663	.055078	032495	.011291	10
.99996	.877524	.938742	.018151	012408	.002871	.091641	018378	.036631	.057278	033705	.011787	11
.99944	.875586	.937517	.018173	012414	.00288	.091638	018378	.03663	.059173	03476	.012207	12

- (1) irfname = IRF101, impulse = UIFIN, and response = Unemploymentrate.
- (2) irfname = IRF101, impulse = UIFIN, and response = dLTGBY10Y.
- (3) irfname = IRF101, impulse = UIFIN, and response = Inflation.
- (4) irfname = IRF101, impulse = UIFIN, and response = UIFIN.

Table 9.7. Finland – Table FEVD

(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Step
1.9381	.681067	1.30961	.099698	.013777	.056737	.056624	.012842	.034733	.044515	071439	013462	0
.22594	27788	025966	.033772	00258	.015596	.021466	.000921	.011194	.00042	- 057455	028518	1
.36954	093692	.137927	.034804	.00091	017857	.000987	019275	009144	.009694	03841	- 014358	2
.45092	069044	.190942	.02073	015684	.002523	.016295	004746	.005774	.009278	050464	- 020593	3
.20275	028773	.086989	.00855	0073	.000625	.007683	004176	.001754	00442	049169	026794	4
.12407	06682	028627	.008158	004686	.001736	.005088	002211	.001439	00353	042231	022881	5
.10414	019104	.042521	.005438	000583	.002427	.003564	002103	.000731	000376	040162	020269	6
.07388	007911	.032986	.004131	000983	.001574	.001884	001273	.000305	002853	03881	020831	7
.06584	000786	.032532	.002922	001034	.000944	.001115	001117	-9.4e-07	002999	036049	019524	8
.05867	001954	.028361	002422	00089	.000766	.001067	000591	.000238	001949	034677	018313	9
.05282	001109	.025859	.002114	000789	.000663	.000982	000488	.000247	002275	033344	01781	10
04771	003343	.022185	.002107	000638	.000734	.000843	000531	.000156	002137	031519	016828	11
.04601	00294	.021536	.001981	000595	.000693	.000795	000508	.000144	00162	030074	015847	12

95% lower and upper bounds reported.

- (1) irfname = IRF101, impulse = UIGER, and response = Unemployment rate.
- (2) irfname = IRF101, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF101, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF101, impulse = UIGER, and response = UIFIN.

Table 9.8. Finland – Table Dynamic Multiplier

FRANCE

Sample: 2008m4 thru 2022m12

Number of obs = 177

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-159.555				.000078	1.89328	1.9515	2.03683
1	-105.21	108.69	16	0.000	.000051	1.46	1.63466	1.89066*
2	-70.3652	69.689*	16	0.000	.000041*	1.24706*	1.53817*	1.96484

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UIFRA

Exogenous: UIGER _cons

Table 10.4. France – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.7799354	.779935
.2585018 + 452247 <i>i</i>	.520913
.2585018 - 452247 <i>i</i>	.520913
484185	.484185
.01770491 + .4410349 <i>i</i>	.44139
.01770491 – .4410349 <i>i</i>	.44139
.3455633	.345563
26946	.26946

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 10.5. France — Varstable Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1 2	19.3586	16	0.25051
	13.5208	16	0.63437

H0: no autocorrelation at lag order

Table 10.6. France – Varlmar

(4) Upper	(4) Lower	(4) fevd	(3) Upper	(3) Lower	(3) fevd	(2) Upper	(2) Lower	(2) fevd	(1) Upper	(1) Lower	(1) fevd	Step
6	0	0	0	0	0	0	0	Ø	0	0	0	0
1.01902	.916961	.967989	0	0	0	0	0	0	0	9	0	1
1.01793	.88001	.948968	.023886	01347	.005208	.014173	009636	.002268	.022518	012137	.005191	2
1.00933	.852746	.931039	.039484	018416	.010534	.015179	009383	.002898	.023444	009766	.006839	3
1.01138	.823193	.917286	.040081	018914	.010583	.015868	009606	.003131	.026859	010518	.008171	4
1.01457	807943	911255	.043293	020106	.011594	017216	01013	.003543	.030735	01237	.009183	5
1.01637	799937	.908153	.043294	020089	.011603	.017831	01038	003725	.031569	01287	.00935	6
1.01759	.79489	.906241	.043965	020367	.011799	.018442	010695	.003874	.032015	01316	.009428	7
1.01824	.791723	.904982	.044089	020394	.011848	018738	010863	.003938	.032279	013332	.009473	8
1.01865	.789821	.904238	044287	020464	.011912	.018929	010972	.003979	.032525	013486	.009519	9
1.01889	.788701	.903794	.044355	020485	.011935	.019042	011036	.004003	.032686	013587	.00955	10
1.01902	788031	.903527	.044412	020505	.011953	.019117	011077	.00402	032786	013649	.009569	11
1.0191	.787628	.903365	.044439	020514	.011963	.019161	011101	.00403	.032841	013684	.009579	12

- (1) irfname = IRF100, impulse = UIFRA, and response = dUnemploymentrate.
- (2) irfname = IRF100, impulse = UIFRA, and response = dLTGBY10Y.
- (3) irfname = IRF100, impulse = UIFRA, and response = Inflation.
- (4) irfname = IRF100, impulse = UIFRA, and response = UIFRA.

Table 10.7. France – Table FEVD

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4
Step	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Uppe
0	00431	024529	.015908	.032521	.010213	.054828	.031189	016825	.079203	.095628	003433	.194689
1	001049	010836	.008738	.014283	.00506	.023506	.013204	005842	.03225	.026783	008489	.06205
2	003758	009723	.002207	003041	010498	.004415	.010702	003873	.025277	.069621	023764	.115478
3	- 001748	007779	.004283	002378	- 007363	.002607	.002208	004186	.008601	.044873	017022	072724
4	000531	004031	.002968	000179	002795	.002437	002769	008792	.003253	.039963	.016472	.063453
5	000095	00223	.00204	00003	002098	.002037	000506	004229	.003217	.027378	010525	.04423
6	- 000345	001815	001125	000456	001995	.001083	000875	003854	.002104	.023426	.008567	038285
7	000373	001339	.000593	000367	001469	.000735	000591	002771	.00159	.01766	.005222	.030098
8	000299	001074	.000476	000247	001091	.000596	000649	002443	.001144	.014111	.002931	.025292
9	000197	000839	.000445	000191	000855	.000474	000388	001703	.000926	.010811	.001004	.020618
10	000144	000658	.000371	000163	000681	.000354	000333	001365	.000699	.008533	000203	.017269
11	000111	000511	.000289	000124	000517	.000268	000256	00104	.000528	.006613	001022	.014248
12	000091	000404	.000223	000094	000397	.000209	000212	000823	.000399	.005175	001496	.011845

- (1) irfname = IRF100, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF100, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF100, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF100, impulse = UIGER, and response = UIFRA.

Table 10.8. France – Table Dynamic Multiplier

GERMANY

Sample: 2008m4 thru 2022m12 Number of obs = 177

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-93.6529				.000035	1.10342	1.13253	1.1752
1	21.4832	230.27	16	0.000	.000012	016759	.128791	.342128*
2	50.5501	58.134*	16	0.000	1.0e-05*	164408*	.097583*	.481588

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UIGER

Exogenous: _cons

Table 11.4. Germany – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.9106246 .6872796 5162777 4683867 .1677058 + .3307286 <i>i</i> .16770583307286 <i>i</i> 3126956	.910625 .68728 .516278 .468387 .370819 .370819 .312696
.2001320	.200133

All the eigenvalues lie inside the unit circle.

VAR satisfies stability condition.

Table 11.5. Germany – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	28.8394	16	0.02504
2	22.3068	16	0.13356

Table 11.6. Germany – Varlmar

(4 Uppe	(4) Lower	(4) fevd	(3) Upper	(3) Lower	(3) fevd	(2) Upper	(2) Lower	(2) fevd	(1) Upper	(1) Lower	(1) fevd	Step
	0	0	0	0	0	0	0	0	0	0	0	0
1.0204	.951174	.985793	0	0	0	0	0	0	0	0	0	1
1.019	.881196	.950449	.014637	010334	.002151	.012882	009212	.001835	.021303	013054	.004125	2
1,0215	860956	.941248	.040016	006203	.016907	.03866	009836	014412	.019894	010991	004452	3
1.0274	.843613	.935547	.055709	006808	.02445	.064875	010569	.027153	.027927	015897	.006015	4
1.0315	828953	.930258	.074556	008314	033121	.083123	011255	035934	.029937	017292	006323	5
1.0354	.816974	.926207	.087212	00965	.038781	.097231	011805	.042713	.033052	019628	006712	6
1.0387	.805962	.922346	.099286	011317	.043984	.108763	012779	047992	.034819	021055	.006882	7
1.0416	.796991	.9193	.108956	012903	.048027	.118535	013797	.052369	.036521	022452	.007034	8
1.0441	.789235	.916678	.117469	014537	.051466	.126719	014873	.055923	.037743	023486	.007128	9
1.0462	.782847	.914554	.124603	016098	.054252	.133611	015932	.058839	.038769	024365	.007202	10
1.0480	.777472	.912781	.130744	017606	.056569	.139418	016975	.061222	.039563	025054	.007255	11
1.0496	.77303	.911331	.135969	019024	.058472	.144338	01798	.063179	.040212	025621	007295	12

- (1) irfname = IRF122, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF122, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF122, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF122, impulse = UIGER, and response = UIGER.

Table 11.7. Germany – Table FEVD

GREECE

Sample: 2008m11 thru 2022m12

Number of obs = 170

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-1201.3				17.736	14.2271	14.287	14.3747
1	-1190.66	21.278	16	0.168	18.8928	14.2902	14.4698	14.7329
2	-1173.75	33.825	16	0.006	18.6991	14.2794	14.5788	15.0173
3	-1161.33	24.846	16	0.073	19.5214	14.3215	14.7407	15.3545
4	-1129.01	64.636	16	0.000	16.1387	14.1295	14.6685	15.4576
5	-1104.39	49.235	16	0.000	14.6215	14.0282	14.6869	15.6514
6	-1001.18	206.43	16	0.000	5.26071*	13.0021*	13.7806*	14.9205
7	-989.627	23.103	16	0.111	5.57259	13.0544	13.9526	15.2679
8	-970.417	38.42*	16	0.001	5.40336	13.0167	14.0346	15.5253
9	-963.979	12.875	16	0.682	6.1005	13.1292	14.2669	15.9329

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UIGRE

Exogenous: UIGER _cons

Table 12.4. Greece – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
5003767 + .8577625 <i>i</i>	.993042
50037678577625 <i>i</i>	.993042
.4922934 + .8618385 <i>i</i>	.992531
.4922934 - 8618385 <i>i</i>	.992531
9510555	.951055
- 1253157 + 9029069 <i>i</i>	.911562
- 1253157 - 9029069 <i>i</i>	.911562
.8958481	.895848
.8837424 + .1443695 <i>i</i>	.895457
8837424 - 1443695 <i>i</i>	.895457
.7502402 + .4425977 <i>i</i>	.871064
7502402 - 4425977i	.871064
3407648 + 7673652 <i>i</i>	.839625
3407648 - 7673652 <i>i</i>	.839625
- 4440626 + .7040668i	.832407
- 4440626 - 7040668i	.832407
7032996 + .3961031 <i>i</i>	.807173
70329963961031 <i>i</i>	.807173
1824138 + 7845356 <i>i</i>	.805463
.18241387845356 <i>i</i>	.805463
7405289 + 2887832 <i>i</i>	.794845
7405289 - 2887832 <i>i</i>	.794845
735775 + .2553412 <i>i</i>	.778822
7357752553412 <i>i</i>	.778822
- 5774036 + 5208903i	.777638
57740365208903 <i>i</i>	.777638
2313333 + .7308902 <i>i</i>	.766626
- 2313333 - 7308902 <i>i</i>	.766626
.5257182 + .3850971 <i>i</i>	.651674
.52571823850971 <i>i</i>	.651674
- 543758 + .09811508 <i>i</i>	.552539
54375809811508 <i>i</i>	.552539
06576354 + .3939216 <i>i</i>	.399373
065763543939216 <i>i</i>	.399373
175682 + 2865689 <i>i</i>	.336134
.1756822865689i	.336134

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 12.5. Greece – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	27.1228	16	0.04014
2	19.0650	16	0.26531

H0: no autocorrelation at lag order

Table 12.6. Greece – Varlmar

(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Step
	0	0	0	0	0	0	0	0	0	0	0	0
1.0214	.945274	.983384	0	0	0	0	0	0	0	0	0	1
1.0210	.928771	.974925	.011611	009007	.001302	.032163	01708	.007541	.007375	006242	.000567	2
1.0178	.90551	.96169	.027638	015842	.005898	.033605	017508	.008049	.027645	015786	.00593	3
1.0166	.882091	.949381	.034219	015384	.009418	.036499	018518	.00899	.04661	019004	.013803	4
1.0095	.844078	.926815	.061015	017049	.021983	.039324	017798	.010763	.045247	0184	.013424	5
1.0074	.8118	.909644	.063206	016512	.023347	.040117	018474	.010821	.048231	015439	.016396	6
.98261	.775749	.879183	.04349	011498	.015996	.040315	016954	.01168	.046767	014988	.01589	7
.97443	.766856	.870644	.043251	010706	.016272	.03977	016134	.011818	.04629	014685	.015802	8
.97255	.765993	.869273	.043259	00813	.017565	.038946	015704	.011621	.049041	015786	.016627	9
.96886	.753648	.861256	.073343	012368	.030487	.039936	014778	.012579	.048385	015583	.016401	10
.9684	.751274	.859872	.072331	012185	.030073	.040225	015001	.012612	.048131	015594	.016268	11
.96925	.755269	.862261	.08968	011854	.038913	.040237	015009	.012614	.047605	015499	.016053	12

95% lower and upper bounds reported.

- (1) irfname = IRF13, impulse = UIGRE, and response = dUnemploymentrate.
- (2) irfname = IRF13, impulse = UIGRE, and response = dLTGBY10Y.
- (3) irfname = IRF13, impulse = UIGRE, and response = Inflation.
- (4) irfname = IRF13, impulse = UIFGRE, and response = UIGRE.

Table 12.7. Greece – Table FEVD

(4)	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2) dm	(1)	(1)	(1)	
Uppe	Lower	dm	Upper	Lower	dm	Upper	Lower	an	Upper	Lower	dm	Step
1.2784	094754	.591841	.200592	00686	.096866	.10874	362789	- 127025	088719	- 274915	- 181817	0
.39786	088278	154793	.033114	037858	002372	.101994	063795	.019099	.048685	019643	.014521	1
44644	027599	.209424	024006	046681	011338	.085663	- 120393	017365	.04652	026128	.010196	2
.7170	078296	397653	045586	022822	.011382	.070167	088706	00927	.025825	038989	006582	3
.53656	.03085	.283708	003888	093987	048937	.105826	062403	.021711	.070622	003396	.033613	4
.35360	269705	.04195	.033076	047273	007099	.095517	05548	.020018	.0092	06735	029075	5
.01683	684667	333916	.120269	026461	.046904	.05911	111107	025998	.014006	050389	018191	6
.33502	178054	.078486	.03896	051108	006074	.121638	033622	.044008	.041708	026058	.007825	7
.193759	- 31656	061401	016743	081511	032384	.152655	010068	.071293	.055409	011544	.021932	8
.05760	56455	- 253473	.089158	009069	.040044	.05468	097323	021322	.02779	032162	002186	9
.18511	185358	000122	.019179	072911	026866	.051977	047151	.002413	.021977	024769	001396	10
.329432	094213	.117609	043002	- 039785	.001609	.050479	049575	.000452	.015133	030744	007806	11
.177143	- 174104	.001519	144905	00856	.068172	.051151	051379	000114	.016512	028205	005847	12

- (1) irfname = IRF13, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF13, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF13, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF13, impulse = UIGER, and response = UIGRE.

• HUNGARY

Sample: 2008m5 thru 2022m12 Number of obs = 176

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	753.624				1.5e-10	-8.45027	-8.37721	-8.27013*
1	804.402	101.56	25	0.000	1.1e-10	-8.74321	-8.48748	-8.11271
2	847.617	86.43	25	0.000	8.9e-11*	-8.9502*	-8.51181*	-7.86935
3	869.644	44.053*	25	0.011	9.3e-11	-8.91641	-8.29536	-7.38521

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UIHUN dHUFEUR

Exogenous: UIGER _cons

Table 13.4. Hungary — Varsoc
Eigenvalue stability condition

Eigenva	lue	Modulus
.7296079		.729608
.6652535 +	.2521035 <i>i</i>	.71142
.6652535 -	.2521035 <i>i</i>	.71142
6584305		.658431
06344701 +	.6279682 <i>i</i>	.631165
06344701 -	.6279682 <i>i</i>	.631165
2310923 +	.5501277 <i>i</i>	.596694
2310923 -	.5501277 <i>i</i>	.596694
4473162 +	.391481 <i>i</i>	.594432
4473162 -	.391481 <i>i</i>	.594432
.5863252		.586325
.327266 +	.3676092 <i>i</i>	.492178
.327266 -	.3676092 <i>i</i>	.492178
- 2672463 +	.2397366 <i>i</i>	.359018
2672463 -	.2397366 <i>i</i>	.359018
1		

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 13.5. Hungary – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	69.1151	25	0.00001
2	36.3987	25	0.06576

Table 13.6. Hungary – Varlmar

(4 Uppe	(4) Lower	(4) fevd	(3) Upper	(3) Lower	(3) fevd	(2) Upper	(2) Lower	(2) fevd	(1) Upper	(1) Lower	(1) fevd	Step
	0	0	0	0	0	0	0	0	0	0	0	0
1.0192	.960645	.989958	0	0	0	0	0	0	0	0	0	1
1.0198	.936074	.977955	.037689	017581	.010054	.007884	006526	.000679	.042956	018803	.012077	2
1.0156	.9043	.959985	.057833	020472	.018681	.041511	017777	.011867	.041933	016494	.012719	3
1.0037	885361	.944546	.054692	015734	.019479	.04118	017189	.011996	.040286	015139	.012573	4
1.0019	.871948	.936946	.053125	015634	.018746	.04611	017423	.014343	.03965	014838	.012406	5
1.0018	865453	.933661	.05494	- 016358	.019291	.045627	016734	.014446	.039647	- 014742	.012453	6
1.0019	86246	.932183	.054397	- 016253	.019072	.046173	01662	.014776	.039477	014664	.012406	7
1.0019	.860844	.931403	.0542	016203	.018998	.046297	016725	.014786	.039413	01464	.012387	8
1.002	859693	.930898	.054088	016175	.018957	.046725	016681	.015022	.03942	014636	.012392	9
1.0021	859289	.930719	.054014	016153	.01893	.046717	016657	.01503	.039406	014628	.012389	10
1.0021	.858997	.930595	.053979	016142	.018918	.046696	016628	.015034	.039399	014625	.012387	11
1,0022	.858956	.930582	.053968	01614	.018914	.046723	016633	.015045	.039399	014624	.012388	12

Step	(5) fevd	(5) Lower	(5) Upper
0	0	9	0
1	.017992	018455	.054439
2	.024195	015998	.064388
3	.025361	016375	.067096
4	.025454	015012	.06592
5	.025628	- 014526	.065782
6	.026388	01427	.067047
7	.026357	014237	.06695
8	.026349	014208	.066906
9	.02635	014218	.066919
10	.026345	01421	.0669
11	.026343	01421	.066897
12	.026343	014209	.066896

- (1) irfname = IRF14, impulse = UIHUN, and response = dUnemploymentrate.
- (2) irfname = IRF14, impulse = UIHUN, and response = dLTGBY10Y.
- (3) irfname = IRF14, impulse = UIHUN, and response = Inflation.
- (4) irfname = IRF14, impulse = UIHUN, and response = UIHUN.
- (5) irfname = IRF14, impulse = UIHUN, and response = dHUFEUR

Table 13.7. Hungary – Table FEVD

Step	(1) dm	(1)	(1)	(2) dm	(2) Lower	(2) Upper	(3) dm	(3) Lower	(3)	(4) dm	(4) Lower	(4)
steb	uiii	Lower	Upper	uiii	Lower	opper	uiii	Lower	Upper	uiii	Lower	Upper
0	.01182	011451	.03509	.062766	.010622	.11491	.11918	.05259	.18577	1.3262	.708378	1.94403
1	006142	016468	.004185	.061625	.02933	.09392	.051096	.020816	.081376	.081172	- 185495	347838
2	.008698	001565	.01896	004783	038836	.02927	.064219	.033152	.095286	.090198	- 175482	355879
3	.002922	005539	.011383	00825	035678	.019178	.025298	002028	.052625	.157467	082192	.397125
4	.002315	003753	.008383	008292	026602	.010019	.038013	.017107	.058919	.166917	001997	.335831
5	.000861	004143	.005864	007321	02111	.006469	.014453	003911	.032818	.023346	10361	.150302
6	.001108	002777	.004993	010659	022515	.001196	.011749	003975	.027473	.072444	024977	.169866
7	.000155	003682	.003992	006676	014624	.001272	.002566	012401	.017533	.031051	054431	116533
8	.00043	002499	.003359	00416	01025	.00193	.002621	008483	.013725	.031607	032206	.095421
9	.000155	002508	.002818	001745	006547	.003058	002116	012547	.008314	.006379	044441	0572
10	.000302	001634	.002238	001555	005038	.001927	001272	008878	.006334	.008265	025928	.042459
11	.000161	001417	.00174	000443	003004	.002119	001991	008395	.004414	000477	026285	.02533
12	.000196	000862	.001254	.000216	001926	.002358	000976	005476	.003524	.001976	013809	.017762

	(5)	(5)	(5)
Step	dm	Lower	Upper
0	-9.9e-06	000021	1.2e-06
1	-8.1e-07	-6.6e-06	5.0e-06
2	-6.5e-07	-5.6e-06	4.4e-06
3	5.1e-06	2.3e-08	.00001
4	1.7e-06	-1.5e-06	4.9e-06
5	2.3e-06	-1.8e-07	4.9e-06
6	5.0e-07	-1.2e-06	2.2e-06
7	8.2e-07	-6.5e-07	2.3e-06
8	3.9e-08	-9.9e-07	1.1e-06
9	1.1e-07	-7.3e-07	9.4e-07
10	-1.4e-07	-7.3e-07	4.6e-07
11	-4.8e-08	-4.6e-07	3.7e-07
12	-1.4e-07	-4.5e-07	1.8e-07

95% lower and upper bounds reported.

- (1) irfname = IRF14, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF14, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF14, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF14, impulse = UIGER, and response = UIHUN.
- (5) irfname = IRF14, impulse = UIGER, and response = dHUFEUR.

Table 13.8. Hungary – Table Dynamic Multiplier

IRELAND

Sample: 2008m9 thru 2022m12

Number of obs = 172

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-623.928				.018252	7.348	7.4074	7.4944
1	-551.533	144.79	16	0.000	.009475	6.69225	6.87044	7.13143
2	-521.342	60.384	16	0.000	.008037	6.52723	6.82421*	7.2592
3	-497.8	47.082	16	0.000	.007369	6.43954	6.85531	7.46431
4	-478.108	39.384	16	0.001	.007071	6.39661	6.93118	7.71417
5	-465.317	25.582	16	0.060	.007358	6.43392	7.08728	8.04427
6	-446.548	37.539	16	0.002	.007151	6.40172	7.17387	8.30485
7	-425.531	42.033*	16	0.000	.00678*	6.34339*	7.23433	8.53931

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation dUIIRL

Exogenous: UIGER _cons

Table 14.4. Ireland – Varsoc

Eiger	ivalue	Modulus
.9191936		.919194
.4197886 +	.7775577i	.883639
.4197886 -	.7775577i	.883639
.5709296 +	.6725593 <i>i</i>	.882211
.5709296 -	.6725593 <i>i</i>	.882211
3991112 +	.7605856i	.858941
3991112 -	.7605856i	.858941
5517593 +	.6448397i	.848679
5517593 -	.6448397i	.848679
8441384 +	.02783586i	.844597
8441384 -	.02783586 <i>i</i>	.844597
.02738111 +	.8376731 <i>i</i>	.83812
.02738111 -	.8376731 <i>i</i>	.83812
1042661 +	.801219 <i>i</i>	.807975
1042661 -	.801219 <i>i</i>	.807975
.7326161 +	.3319276 <i>i</i>	.804302
.7326161 -	.3319276 <i>i</i>	.804302
6264451 +	.5016224 <i>i</i>	.802533
6264451 -	.5016224 <i>i</i>	.802533
7478015 +	.2330129i	.783264
7478015 -	.2330129 <i>i</i>	.783264
.5104453 +	.5289146 <i>i</i>	.735054
.5104453 -	.5289146 <i>i</i>	.735054
.7344748		.734475
	.7033447i	.721949
.1628374 -	.7033447i	.721949
.6178042		.617804
2416572		.241657

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 14.5. Ireland – Varstable

Lagrange-multiplier test

chi2	df	Prob > chi2
23.4146	16	0.10309
16.3526	16	0.42864
	23.4146	23.4146 16

H0: no autocorrelation at lag order

Table 14.6. Ireland – Varlmar

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4
Step	fevd	Lower	Upper	fevd	Lower	Upper	fevd	Lower	Upper	fevd	Lower	Uppe
0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	.945131	.878959	1.011
2	.00782	014797	.030437	.001193	008635	.011022	.084755	.010338	.159172	.957012	.900643	1.0133
3	.08815	.007613	.168687	.025588	020037	.071213	.096169	.013583	.178755	.935906	.864585	1.0072
4	.132842	.02045	.245234	.030274	014532	.075079	.139452	.053274	.225629	.91028	.829447	.99111
5	.142057	.020058	.264057	.030555	013837	.074947	.134441	.051737	.217145	.8805	.784895	.97610
6	.154945	.041484	.268406	.02954	013743	.072823	.13486	.052599	.217122	.874731	.778258	.97120
7	.152353	.040206	.264499	.044773	008895	.098442	.132896	.051068	.214723	.861645	.762826	.96046
8	.152361	.04177	.262952	.046137	007583	.099857	.131021	.050277	.211766	.858611	.757402	.95981
9	.146543	.038727	.25436	.048992	008395	.10638	.131764	.050518	.21301	.859287	.758367	.960207
10	.154543	.042012	.267074	.049348	007356	.106053	.132253	.05095	.213556	.858528	.757939	.95911
11	.162677	.044068	.281285	.055054	006187	.116295	.132857	.051813	.213902	.8537	.750775	.95662
12	.168511	.046878	.290143	.055509	00553	.116548	.132174	.05149	.212859	.848582	.742746	.95441

- (1) irfname = IRF15, impulse = dUIIRL, and response = dUnemploymentrate.
- (2) irfname = IRF15, impulse = dUIIRL, and response = dLTGBY10Y.
- (3) irfname = IRF15, impulse = dUIIRL, and response = Inflation.
- (4) irfname = IRF15, impulse = dUIIRL, and response = dUIIRL.

Table 14.7. Ireland – Table FEVD

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4
Step	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Uppe
0	.0276	.00009	.055111	.072883	.025925	.119841	.069054	.017348	.12076	.412303	.14341	.68119
1	.003859	011704	.019421	.013248	006031	.032526	.033435	.004097	.062773	314627	550707	07854
2	011083	02752	.005354	011978	031999	.008042	.013501	010954	.037955	148946	322	.02410
3	011006	024831	.00282	.010463	011864	.032789	013856	041708	.013996	.225652	.046953	.40435
4	005529	018108	.007049	.00054	018671	.019751	.018785	005956	.043525	088705	249022	.07161
5	.01716	.002538	.031782	.003876	016104	.023856	.004894	021253	.031041	.037295	10837	.18296
6	004271	017681	.009139	004772	026572	.017029	004855	028769	.019058	068787	218018	.08044
7	.016774	.003211	.030337	.010693	008311	.029697	015357	039281	.008567	.02175	126408	.16990
8	.008334	003557	.020225	.009427	005563	.024417	008053	027005	.010899	.056052	069673	.18177
9	.002839	008128	.013806	006345	0207	.008011	01033	026944	.006283	020854	137175	.09546
10	00018	009728	.009367	004552	017501	.008397	.001614	012379	.015606	083484	192903	.02593
11	001625	009926	.006675	.004214	00772	.016148	011581	024501	.001338	.074838	024521	.17419
12	.006422	001552	.014396	.004635	006741	.016011	.001458	011462	.014379	009719	093274	.07383

- (1) irfname = IRF15, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF15, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF15, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF15, impulse = UIGER, and response = dUIIRL.

Table 14.8. Ireland – Table Dynamic Multiplier

ITALY

Sample: 2008m4 thru 2022m12 Number of obs = 177

Lag	LL	LR	d f	р	FPE	AIC	HQIC	SBIC
0	-412.377				.001358	4.75002	4.80824	4.89358
1	-366.564	91.626*	16	0.000	.00097*	4.41315*	4.58781*	4.84381*
2	-353.825	25.478	16	0.062	.001007	4.45	4.7411	5.16777

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UIITA

Exogenous: UIGER _cons

Table 15.4. Italy – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.7291949	.729195
.4990882	.499088
4277698	.42777
.08441045 + .3301046 <i>i</i>	.340726
2095292 + .171185 <i>i</i>	.270568
2095292171185 <i>i</i>	.270568
.1408908	.140891

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 15.5. Italy – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1 2	35.1066	16	0.00384
	18.8341	16	0.27736

H0: no autocorrelation at lag order

Table 15.6. Italy – Varlmar

(4) Upper	(4) Lower	(4) fevd	(3) Upper	(3) Lower	(3) fevd	(2) Upper	(2) Lower	(2) fevd	(1) Upper	(1) Lower	(1) fevd	Step
	0	9	0	0	0	0	0	0	0	0	0	0
1.01993	.955751	.987843	0	0	0	0	0	0	0	0	0	1
1.01995	.907697	.963826	.00048	000474	3.1e-06	.024154	014129	.005012	.061043	018415	021314	2
1.01119	.888854	950023	.00808	00633	.000875	.025378	014803	.005288	.060876	0178	.021538	3
1.01253	.887673	.950102	.008999	007109	.000945	.027499	015839	.00583	.063874	018225	.022824	4
1.01338	.884535	948958	.011548	009164	.001192	.028854	016666	.006094	.065235	018651	023292	5
1.01408	88299	948537	.012499	009964	.001268	.029574	017129	.006222	.066007	018891	023558	6
1.01442	.882175	.948296	.013261	010595	.001333	.030011	017412	.006299	.066452	019057	.023697	7
1.01462	.881744	.948179	.013639	010911	.001364	.030243	017565	.006339	.066691	019149	023771	8
1.01471	.881515	.948115	.013868	011102	.001383	.030371	017649	.006361	.066822	019201	.02381	9
1.01477	.881393	.948081	.013988	011203	.001392	.03044	017694	.006373	.066893	019231	.023831	10
1.0148	.881328	948063	.014055	011259	.001398	.030477	017719	.006379	.066932	019248	023842	11
1.01481	.881293	.948053	.014091	011289	.001401	030496	017732	.006382	.066953	019257	.023848	12

95% lower and upper bounds reported.

- (1) irfname = IRF151, impulse = UIITA, and response = dUnemploymentrate.
- (2) irfname = IRF151, impulse = UIITA, and response = dLTGBY10Y.
- (3) irfname = IRF151, impulse = UIITA, and response = Inflation.
- (4) irfname = IRF151, impulse = UIITA, and response = UIITA.

Table 15.7. Italy – Table FEVD

(4)	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Upper	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Step
upper	Lower	aiii	opper	Lower	anı	opper	Lower	am	opper	Lower	l am	Step
.346144	.033006	.189575	.128141	.026912	.077527	.083152	.004539	.043845	.0443	042227	.001036	0
.173086	.029051	.101069	.037651	00384	.016905	.019777	005841	.006968	.007701	023667	007983	1
127059	.013485	.070272	031458	.00349	017474	.013861	011708	.001076	.009243	017953	004355	2
.089729	.01603	.05288	011473	004363	.003555	.00641	007282	000436	.003838	006546	001354	3
.071345	.010344	.040844	.009508	002923	.003293	.003466	003732	000133	.001158	005236	002039	4
.054063	.005751	.029907	.004847	003735	.000556	.002022	002513	000245	.000931	- 003188	001129	5
.042899	.002311	.022605	.003738	002815	.000461	001486	002027	000271	.000759	- 002475	000858	6
.033088	000234	.016427	.002322	002471	000075	.001036	001599	000281	.000656	001764	000554	7
025947	001659	.012144	.001737	00189	000076	.000768	0012	000216	.000514	- 001337	000411	8
.020142	00241	.008866	.001201	001487	000143	000555	000897	000171	.000411	00099	000289	9
.015686	002684	.006501	.000889	001119	000115	.000413	000669	000128	.000324	000747	000211	10
.012159	002669	.004745	.000641	000847	000103	.000305	0005	000097	.000257	00056	000151	11
.009418	002482	.003468	.000473	000631	000079	.000228	000372	000072	.000202	000422	00011	12

- (1) irfname = IRF151, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF151, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF151, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF151, impulse = UIGER, and response = UIITA.

Table 15.8. Italy – Table Dynamic Multiplier

• LATVIA

Sample: 2008m4 thru 2022m12

Number of obs = 177

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-1029.31				1.447	11.721	11.7792	11.8646
1	-897.59	263.44	16	0.000	.391427*	10.4134*	10.5881*	10.8441*
2	-882.213	30.755*	16	0.014	.394339	10.4205	10.7116	11.1383

^{*} optimal lag

 ${\tt Endogenous:} \ \, {\tt dUnemploymentrate} \ \, {\tt dLTGBY10Y} \ \, {\tt Inflation} \ \, {\tt UILVA}$

Exogenous: UIGER _cons

Table 16.4. Latvia – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.5664554 + .03085298i .566455403085298i .07411473 + .4590437i .074114734590437i .1628566 + .2832831i	.567295 .567295 .464988 .464988
.16285662832831 <i>i</i> .2313979 0749869	.326759 .231398 .074987

All the eigenvalues lie inside the unit circle.

VAR satisfies stability condition.

Table 16.5. Latvia – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1 2	28.1125	16	0.03066
	19.9488	16	0.22254

Table 16.6. Latvia – Varlmar

(4)	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Upper	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Step
0	0	0	0	0	0	0	0	0	0	0	0	0
1.01949	.920425	.969959	0	0	0	0	0	0	0	0	0	1
1.01609	.897473	.956781	.002505	002342	.000082	008894	007144	.000875	.006143	- 004732	.000706	2
1.0071	.888861	.94798	.021523	013958	.003783	.021342	011834	.004754	.010668	008393	.001138	3
1.00046	.873132	.936795	.026646	016489	.005079	.0259	014317	.005791	.010392	008307	.001042	4
.998851	.863563	.931207	.027	016459	005271	025811	014172	.00582	.00917	006985	.001092	5
.998609	.859675	.929142	.026957	016405	005276	025822	014098	.005862	00865	- 006277	.001186	6
.998615	.857841	.928228	.026919	016383	.005268	.025833	014116	.005859	.008471	006037	.001217	7
.998669	.857009	.927839	.026902	016373	005264	025941	014178	.005882	.00841	005962	.001224	8
.998709	.856686	.927698	.026895	016369	005263	.02595	014183	.005884	.008388	005933	.001228	9
.998731	.856565	.927648	.026893	016368	.005262	.025948	014181	.005883	.008379	00592	.00123	10
.998742	.856516	.927629	.026893	016368	005262	.025947	014181	.005883	.008376	005915	.00123	11
.998747	.856495	.927621	.026892	016368	.005262	.025948	014182	.005883	.008374	005913	.001231	12

- (1) irfname = IRF16, impulse = UILVA, and response = dUnemploymentrate.
- (2) irfname = IRF16, impulse = UILVA, and response = dLTGBY10Y.
- (3) irfname = IRF16, impulse = UILVA, and response = Inflation.
- (4) irfname = IRF16, impulse = UILVA, and response = UILVA.

Table 16.7. Latvia – Table FEVD

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4
tep	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Uppe
0	.01771	031295	.066714	012726	040109	.014656	.128749	.058357	.19914	2.32839	.88575	3.77103
1	.018685	003509	.040879	- 007113	033314	.019087	.058359	.025951	.090768	.450112	071995	.972219
2	0042	024133	.015734	.000248	019163	.01966	.029042	.004782	.053303	267169	- 861919	.327581
3	- 005177	018676	.008323	.002722	012016	01746	.014135	003757	.032028	060321	3589	.238259
4	.000935	006886	.008757	.002136	008761	.013032	.00637	005757	.018496	.069845	095373	.235064
5	.002304	003347	.007955	.001393	006582	.009369	.002568	005564	.0107	02334	- 075759	.122438
6	.00102	002858	.004899	.001073	004622	.006768	.000959	00423	.006147	017618	086476	.051239
7	.000314	002499	.003126	.000835	003082	.004753	.000299	003004	.003601	014385	06125	.03248
8	.000297	001584	.002178	.000574	002033	.003181	8.6e-06	002156	.002173	00414	034582	.026303
9	.0003	000929	.00153	.000363	001333	.002058	0001	001558	.001358	001979	022738	.01878
10	.000196	000592	.000985	.000229	000859	.001317	000114	001101	.000873	002602	016096	.010892
11	.000104	000401	.000609	.000147	000544	.000838	000094	000758	.000571	002144	010851	.006563
12	.000062	00026	.000384	.000093	000344	.00053	000069	000513	.000374	001199	006712	.004313

95% lower and upper bounds reported.

- (1) irfname = IRF16, impulse = UIGER, and response = dLTGBY10Y.
- (2) irfname = IRF16, impulse = UIGER, and response = dUnemploymentrate.
- (3) irfname = IRF16, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF16, impulse = UIGER, and response = UILVA.

Table 16.8. Latvia – Table Dynamic Multiplier

• LITHUANIA

Sample: 2008m5 thru 2022m12 Number of obs = 176

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-1020.25				1.39532	11.6846	11.7431	11.8287
1	-919.856	200.78	16	0.000	.534852	10.7256	10.901*	11.158*
2	-894.63	50.453	16	0.000	.4818	10.6208	10.913	11.3414
3	-876.19	36.879*	16	0.002	.469028*	10.5931*	11.0022	11.6019

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UILTH

Exogenous: UIGER _cons

Table 17.4. Lithuania – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.8724436	.872444
.7501316 + .04584076 <i>i</i>	.751531
7501316 - 04584076 <i>i</i>	.751531
321932 + .5072898 <i>i</i>	.600819
3219325072898 <i>i</i>	.600819
03343273 + .5177559 <i>i</i>	.518834
033432735177559 <i>i</i>	.518834
329227 + .3182158 <i>i</i>	.457877
3292273182158 <i>i</i>	. 457877
.3658775 + .1942669 <i>i</i>	.414254
.36587751942669 <i>i</i>	.414254
313562	.313562

All the eigenvalues lie inside the unit circle.

VAR satisfies stability condition.

Table 17.5. Lithuania – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1 2	21.0516	16	0.17654
	20.4502	16	0.20062

H0: no autocorrelation at lag order

Table 17.6. Lithuania – Varlmar

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4)
Step	fevd	Lower	Upper	fevd	Lower	Upper	fevd	Lower	Upper	fevd	Lower	Upper
0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	.99806	.98507	1.01105
2	4.0e-07	000152	.000153	.009791	017726	.037308	.000298	004109	.004704	.96136	.907799	1.01492
3	.000752	006168	.007672	.012912	018918	.044743	.002283	008636	.013201	.945612	.883073	1.00815
4	.002522	011741	.016786	.012911	019404	.045226	.00238	009368	.014128	.937317	.874625	1.00001
5	.003057	016072	.022186	.016034	024483	.056551	.002446	01001	.014903	923666	.848673	.998659
6	.003485	020178	.027148	.016687	02659	.059964	.002809	012321	.017939	.923937	.846108	1.00177
7	.004258	02523	.033746	.017164	028419	.062746	.003187	014182	.020557	.917831	.830607	1.00506
8	.004643	02884	.038127	.017921	03063	.066472	.003405	015501	.022311	.911676	.814659	1.00869
9	.004994	032154	.042142	.018251	03202	.068523	.003606	016718	.02393	.90869	.804754	1.01263
10	.005331	035213	.045876	.018538	033197	.070273	.003808	017743	.02536	.904497	.792661	1.01633
11	.005564	037624	.048753	.018802	034218	.071822	.003957	018517	.026431	.900807	.781902	1.01971
12	.005761	039692	.051215	.018968	034952	.072888	.004078	019133	.027288	.897977	.773215	1.02274

- (1) irfname = IRF17, impulse = UILTH, and response = dUnemploymentrate.
- (2) irfname = IRF17, impulse = UILTH, and response = dLTGBY10Y.
- (3) irfname = IRF17, impulse = UILTH, and response = Inflation.
- (4) irfname = IRF17, impulse = UILTH, and response = UILTH.

Table 17.7. Lithuania – Table FEVD

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4)
Step	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper
ø	001071	037292	.03515	040074	140444	.060297	.123377	.043203	.203551	.067945	-1.12272	1.25861
1	00396	025966	.018046	.003652	023552	.030856	.064283	.026041	.102525	.061245	329099	.451589
2	.00279	012425	.018006	.001661	030249	.03357	001852	027603	.023899	264956	691669	.161757
3	.000415	013524	014354	.006606	015135	.028346	.013899	007822	.03562	.250346	192757	.693449
4	.00043	010754	.011613	.00689	009208	.022988	.014565	003542	.032671	.234331	050451	.519113
5	.000726	008234	.009686	.008381	002787	.019548	.005757	003758	.015272	.005089	236823	.247002
6	.00095	00641	.00831	.004318	003627	.012263	.002901	005438	.011239	.136568	095154	.36829
7	.000952	005285	.007189	.004146	002407	.010699	.002783	004802	.010367	.120091	063489	.303671
8	.001121	004033	.006275	.003922	001241	.009086	.001959	003667	.007585	.062	09603	.220031
9	.000908	003343	.005159	.002386	0018	.006573	.00104	003637	.005717	.077441	069492	.224374
10	.00079	002813	.004394	.002108	001548	.005765	.000572	003618	.004762	.063313	063006	.189632
11	.000742	002308	.003793	.001779	001374	.004931	.000336	003205	.003878	.047168	064672	.159008
12	.000583	002003	.003168	.001258	001498	.004014	.000195	002808	.003198	.044704	056727	.146136

- (1) irfname = IRF17, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF17, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF17, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF17, impulse = UIGER, and response = UILTH.

Table 17.8. Lithuania – Table Dynamic Multiplier

LUXEMBOURG

Sample: 2008m4 thru 2022m12 Number of obs = 177

Lag	LL	LR	df	p	FPE	AIC	HQIC	SBIC
0	-763.888				.072107	8.7219	8.78012	8.86546
1	-718.515	90.746*	16	0.000	.051746*	8.39001*	8.56467*	8.82067*
2	-712.314	12.404	16	0.716	.057826	8.50072	8.79182	9.21849

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UILUX

Exogenous: UIGER _cons

Table 18.4. Luxembourg – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.477851 + .02186065 <i>i</i>	.478351
.47785102186065 <i>i</i>	.478351
1710051 + .3419483 <i>i</i>	.382324
17100513419483 <i>i</i>	.382324
3223537	.322354
.1595323	.159532
113218	.113218
.07643549	.076435

All the eigenvalues lie inside the unit circle.

VAR satisfies stability condition.

 ${\it Table~18.5.~Luxembourg-Varstable}$

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1 2	20.2266	16	0.21019
	17.4160	16	0.35918

H0: no autocorrelation at lag order

Table 18.6. Luxembourg- Varlmar

Step	(1) fevd	(1) Lower	(1) Upper	(2) fevd	(2) Lower	(2) Upper	(3) fevd	(3) Lower	(3) Upper	(4) fevd	(4) Lower	(4) Upper
эсер	1010	Lower	оррет	1070	Lower	оррет	1070	Lower	оррет		Lower	
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	.99549	.975791	1.01519
2	.000348	004641	.005337	.003018	012456	.018491	.002058	010327	.014443	968754	.917144	1.02036
3	.000994	009196	.011185	.003282	013955	.020518	.002248	012027	.016524	.962381	.908047	1.01671
4	.001173	011144	.013489	.003312	014349	.020973	.002243	011931	.016417	.960266	.903252	1.01728
5	.001295	0122	.01479	.003327	014467	.021121	.002243	01192	.016405	.959836	.902163	1.01751
6	.001335	012555	.015225	.00333	014493	.021153	.002244	- 011921	.016408	.959772	.902005	1.01754
7	.001348	012673	.015369	.00333	014497	.021157	.002244	011919	.016407	.959751	.901955	1.01755
8	.001352	012709	.015414	.00333	014498	.021159	.002244	011919	.016407	.959747	.901945	1.01755
9	.001354	01272	.015427	.00333	014498	.021159	.002244	011919	.016407	.959746	.901943	1.01755
10	.001354	012723	.015431	.00333	014498	.021159	.002244	011919	.016407	.959746	.901942	1.01755
11	.001354	012724	.015432	.00333	014498	.021159	.002244	011919	.016407	.959746	.901942	1,01755
12	.001354	012724	.015432	.00333	014498	.021159	.002244	011919	.016407	.959745	.901942	1.01755

- (1) irfname = IRF18, impulse = UILUX, and response = dUnemploymentrate.
- (2) irfname = IRF18, impulse = UILUX, and response = dLTGBY10Y.
- (3) irfname = IRF18, impulse = UILUX, and response = Inflation.
- (4) irfname = IRF18, impulse = UILUX, and response = UILUX.

Table 18.7. Luxembourg – Table FEVD

95% lower and upper bounds reported.

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4)
Step	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper
0	000354	015436	.014728	.030286	.010294	.050279	.032728	044227	.109683	1.55836	371651	3,48838
1	001046	007882	.005791	.009255	.002585	.015925	000611	041279	.040058	.212698	353171	.778568
2	001646	005933	.002641	.001713	003334	.006759	.008388	011778	028555	.445492	046897	.937882
3	001049	003749	.00165	.000362	002411	.003135	.000017	006826	.006861	.166676	052922	.386274
4	000759	002466	.000948	.000285	001042	.001613	000089	004298	.00412	.086858	056598	.230315
5	0004	00141	.000609	.000072	000541	.000685	000528	00084	.001897	.029799	042427	102025
6	000217	000832	.000398	.000018	000332	.000367	.000115	000544	.000775	.015972	029503	.061447
7	000122	00048	.000237	.000018	000152	.000187	.000037	000359	.000432	.005128	017949	.028205
8	000064	000271	.000143	5.3e-06	000082	.000093	.000056	000141	.000253	.002118	011359	015595
9	000033	000151	.000085	1.3e-06	000044	.000047	.000021	000082	.000125	.00075	006317	.007817
10	000017	000084	.000049	1.0e-06	000022	.000024	9.1e-06	000049	.000067	.000228	003627	.004083
11	-8.9e-06	000046	.000028	3,0e-07	000012	.000012	6.7e-06	000024	.000037	.000033	002003	.002069
12	-4.5e-06	000025	.000016	3.6e-08	-6.2e-06	6.3e-06	3.1e-06	000014	.00002	-6.1e-06	001096	.001084

- (1) irfname = IRF18, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF18, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF18, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF18, impulse = UIGER, and response = UILUX.

Table 18.8. Luxembourg – Table Dynamic Multiplier

MALTA

Sample: 2008m11 thru 2022m12

Number of obs = 170

Lag	LL	LR	df	p	FPE	AIC	HQIC	SBIC
0	-991.865				1.50925	11.7631	11.823	11.9107
1	-957.279	69.173	16	0.000	1.21296	11.5445	11.7241	11.9872
2	-941.627	31.302	16	0.012	1.21847	11.5486	11.848	12.2864
3	-895.634	91.987	16	0.000	.856997	11.1957	11.6149*	12.2287
4	-888.262	14.743	16	0.544	.950167	11.2972	11.8361	12.6253
5	-844.052	88.421	16	0.000	.683618	10.9653	11.624	12.5886
6	-824.213	39.677	16	0.001	.655947	10.9202	11.6986	12.8385
7	-802.448	43.531	16	0.000	.61616*	10.8523*	11.7505	13.0658
8	-798.783	7.3297	16	0.966	.717341	10.9974	12.0154	13.5061
9	-775.737	46.092*	16	0.000	.666145	10.9146	12.0523	13.7183

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UIMLT

Exogenous: UIGER _cons

Table 19.3. Malta – Varsoc

Eigenvalue stability condition

.8625021 + .4948821i .994393 .86250214948821i .9943939856419 .93547687396816 + .5073237i .89694304453382 + .8780927i .879221044533828780927i .8720777836493 + .3826372i .87207778364933826372i .8720774346795 + .7542339i .8705268563532 .87605268563532 .87605268563532 .8241941i .827212 .6499667 + .5032289i .8220075599546 + .5995618i .8203855995465995618i .82038198421 + .7934534i .8178871984217934534i .8178873590489 + .6744372i .7640565726736 + .4935185i .75598757267364935185i .75598757267364935185i .7559871048129 + .7421142i .749479 .69232892826914i .7478193560778 + .6520449i .7429367075905			
.86250214948821i .9943939856419 .9354768 .9354777396816 + .5073237i .89694373968165073237i .89694304453382 + .8780927i .879221044533828780927i .8720777836493 + .3826372i .8720774346795 + .7542339i .8705268563532 .856353 .07059865 + .8241941i .827212 .6499667 + .5032289i .8220075599546 + .5995618i .82038198421 + .7934534i .8178871984217934534i .817887 .3590489 + .6744372i .7640565726736 + .4935185i .75598757267364935185i .75598757267364935185i .7559871048129 + .7421142i .749479 .6923289 + .2826914i .7478193560778 + .6520449i .74293635607786520449i .74293635607786520449i .7429367075905	Eigenv	alue	Modulus
9856419 .93547687396816 + .5073237i	.8625021 +	.4948821 <i>i</i>	.994393
.93547687396816 + .5073237i	.8625021 -	.4948821 <i>i</i>	.994393
7396816 + .5073237i	9856419		.985642
73968165073237i	.9354768		.935477
04453382 + .8780927i	7396816 +	.5073237i	.896943
044533828780927i .8792217836493 + .3826372i .87207778364933826372i .872077 .4346795 + .7542339i .870526 .43467957542339i .8705268563532 .856353 .07059865 + .8241941i .827212 .6499667 + .5032289i .822007 .64996675032289i .8220075599546 + .5995618i .8203855995465995618i .82038198421 + .7934534i .8178871984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .7640565726736 + .4935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .69232892826914i .747819 .69232892826914i .7478193560778 + .6520449i .742936 .7075905	7396816 -	.5073237i	.896943
7836493 + .3826372i .87207778364933826372i .872077 .4346795 + .7542339i .870526 .43467957542339i .8705268563532 .856353 .07059865 + .8241941i .827212 .6499667 + .5032289i .822007 .64996675032289i .8220075599546 + .5995618i .8203855995465995618i .82038198421 + .7934534i .8178871984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .7640565726736 + .4935185i .75598757267364935185i .7559871048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .7478193560778 + .6520449i .742936 .7075905	04453382 +	.8780927i	.879221
78364933826372i .872077 .4346795 + .7542339i .870526 .43467957542339i .8705268563532 .856353 .07059865 + .8241941i .827212 .6499667 + .5032289i .822007 .64996675032289i .8220075599546 + .5995618i .82038198421 + .7934534i .8178871984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .7640565726736 + .4935185i .75598757267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .7478193560778 + .6520449i .742936 .7075905	04453382 -	.8780927i	.879221
.4346795 + .7542339i	7836493 +	.3826372i	.872077
.43467957542339i .8705268563532 .856353 .07059865 + .8241941i .827212 .6499667 + .5032289i .822007 .64996675032289i .8220075599546 + .5995618i .8203855995465995618i .82038198421 + .7934534i .8178871984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .7640565726736 + .4935185i .75598757267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .7478193560778 + .6520449i .742936 .7075905	7836493 -	.3826372i	.872077
8563532 .856353 .07059865 + .8241941i .827212 .070598658241941i .827212 .6499667 + .5032289i .822007 .64996675032289i .822007 5599546 + .5995618i .82038 198421 + .7934534i .817887 1984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .764056 .5726736 + .4935185i .755987 57267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .747819 .69232892826914i .747819 3560778 + .6520449i .742936 .7075905	.4346795 +	.7542339i	.870526
.07059865 + .8241941i .827212 .070598658241941i .827212 .6499667 + .5032289i .822007 .64996675032289i .8220075599546 + .5995618i .8203855995465995618i .82038198421 + .7934534i .8178871984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .7640565726736 + .4935185i .75598757267364935185i .755987 .1048129 + .7421142i .749479 .1048129 + .7421142i .749479 .6923289 + .2826914i .747819 .69232892826914i .7478193560778 + .6520449i .742936 .7075905	.4346795 -	.7542339i	.870526
.070598658241941i .827212 .6499667 + .5032289i .822007 .64996675032289i .822007 5599546 + .5995618i .82038 198421 + .7934534i .817887 1984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .764056 5726736 + .4935185i .755987 57267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .747819 .69232892826914i .747819 3560778 + .6520449i .742936 .7075905	8563532		.856353
.6499667 + .5032289i .822007 .64996675032289i .822007 5599546 + .5995618i .82038 55995465995618i .82038 198421 + .7934534i .817887 1984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .764056 5726736 + .4935185i .755987 57267364935185i .755987 .1048129 + .7421142i .749479 .1048129 + .7421142i .749479 .6923289 + .2826914i .747819 .69232892826914i .747819 3560778 + .6520449i .742936 .7075905	.07059865 +	.8241941 <i>i</i>	.827212
.64996675032289i .822007 5599546 + .5995618i .82038 55995465995618i .82038 198421 + .7934534i .817887 1984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .764056 5726736 + .4935185i .755987 57267364935185i .755987 .1048129 + .7421142i .749479 .1048129 + .7421142i .749479 .6923289 + .2826914i .747819 .69232892826914i .747819 3560778 + .6520449i .742936 .7075905	.07059865 -	.8241941 <i>i</i>	.827212
5599546 + .5995618i .8203855995465995618i .82038198421 + .7934534i .8178871984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .7640565726736 + .4935185i .75598757267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .747819 .69232892826914i .7478193560778 + .6520449i .742936 .7075905	.6499667 +	.5032289i	.822007
55995465995618i .82038198421 + .7934534i .8178871984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .7640565726736 + .4935185i .75598757267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .7478193560778 + .6520449i .742936 .7075905	.6499667 -	.5032289i	.822007
198421 + .7934534i .8178871984217934534i .817887 .3590489 + .6744372i .764056 .35904896744372i .7640565726736 + .4935185i .75598757267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .7478193560778 + .6520449i .742936 .7075905	5599546 +	.5995618 <i>i</i>	.82038
1984217934534i .817887 .3590489 + .6744372i .764956 .35904896744372i .7649565726736 + .4935185i .75598757267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .7478193560778 + .6520449i .742936 .7075905 .70759	5599546 -	.5995618 <i>i</i>	.82038
.3590489 + .6744372i .764056 .35904896744372i .764056 5726736 + .4935185i .755987 57267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .747819 .69232892826914i .747819 3560778 + .6520449i .742936 .7075905 .70759	198421 +	.7934534i	.817887
.35904896744372i .764056 5726736 + .4935185i .755987 57267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .747819 .69232892826914i .747819 3560778 + .6520449i .742936 .7075905 .70759	198421 -	.7934534i	.817887
5726736 + .4935185i .755987 57267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .747819 .69232892826914i .747819 3560778 + .6520449i .742936 .7075905 .70759	.3590489 +	.6744372i	.764056
57267364935185i .755987 .1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .747819 .69232892826914i .747819 3560778 + .6520449i .742936 .7075905 .70759	.3590489 -	.6744372i	.764056
.1048129 + .7421142i .749479 .10481297421142i .749479 .6923289 + .2826914i .747819 .69232892826914i .747819 3560778 + .6520449i .742936 .7075905 .70759	5726736 +	.4935185 <i>i</i>	.755987
.10481297421142 <i>i</i> .749479 .6923289 + .2826914 <i>i</i> .747819 .69232892826914 <i>i</i> .747819 3560778 + .6520449 <i>i</i> .742936 .7075905 .70759	5726736 -	.4935185 <i>i</i>	.755987
.6923289 + .2826914i .747819 .69232892826914i .747819 3560778 + .6520449i .742936 35607786520449i .742936 .7075905 .70759	.1048129 +	.7421142i	.749479
.69232892826914 <i>i</i> .747819 3560778 + .6520449 <i>i</i> .742936 35607786520449 <i>i</i> .742936 .7075905 .70759	.1048129 -	.7421142 <i>i</i>	.749479
3560778 + .6520449i .742936 35607786520449i .742936 .7075905 .70759	.6923289 +	.2826914 <i>i</i>	.747819
35607786520449i .742936 .7075905 .70759	.6923289 -	.2826914 <i>i</i>	.747819
.7075905 .70759	3560778 +	.6520449 <i>i</i>	.742936
	3560778 -	.6520449 <i>i</i>	.742936
	6440076	4020022	.644008
.4244209 + .4829823 <i>i</i> .642966 .42442094829823 <i>i</i> .642966			
.4864534 .486453		0230231	

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 19.4. Malta – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	18.0367	16	0.32175
2	20.5181	16	0.19779

Table 19.5. Malta – Varlmar

(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Step
	0	0	0	0	0	0	0	0	0	0	0	0
1.0151	.97648	.995825	0	0	0	0	0	0	0	0	0	1
1.02112	.948604	.984863	.003712	00341	.000151	.035264	01767	.008797	.015963	011396	.002284	2
1.0227	.929816	.976281	.035192	017519	.008836	.036355	017401	.009477	.015373	010774	.0023	3
1.02214	.922554	.972346	.054694	014461	.020117	.037939	017688	.010126	.018525	012047	.003239	4
1.0157	.899883	.957832	.067669	010329	.02867	.037259	017487	.009886	.060521	01771	.021405	5
1.01363	.903307	.958466	.064307	009702	.027302	.038617	016788	.010915	.087772	005797	.040987	6
1.0077	.876732	.942224	.061651	008936	.026358	.047931	018889	.014521	.094899	006196	.044351	7
.997182	.868084	.932633	.071562	010699	.030431	.056862	019657	.018602	.094742	006125	.044309	8
.99733	.86733	.932334	.07015	009929	.030111	.057908	019761	.019073	.101446	001466	.04999	9
.99373	.861386	.92756	.069889	009927	.029981	.057856	020057	.018899	.114278	.000207	.057243	10
.993802	.860597	.9272	.06692	009386	.028767	.05959	019262	.020164	.117524	.000682	.059103	11
.993942	.856563	.925253	.068712	010326	.029193	.059782	019314	.020234	.119157	.00045	.059804	12

- (1) irfname = IRF19, impulse = UIMLT, and response = dUnemploymentrate.
- (2) irfname = IRF19, impulse = UIMLT, and response = dLTGBY10Y.
- (3) irfname = IRF19, impulse = UIMLT, and response = Inflation.
- (4) irfname = IRF19, impulse = UIMLT, and response = UIMLT.

Table 19.6. Malta – Table FEVD

(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Step
3.0208	-2.01095	.504967	.182085	.004325	.093205	.042542	012679	.014932	.025483	023602	.00094	0
.84964	484328	.18266	.025087	008514	.008286	.008824	007502	.000661	.006429	004635	.000897	1
.42265	674908	126128	.011148	029254	009053	.007448	002951	.002249	.00574	005642	.000049	2
.95075	411674	.269542	.00155	089621	044035	.008974	003562	.002706	.007062	007564	000251	3
.36021	669882	154832	.021949	026644	002348	.003771	009417	002823	.006146	00706	000457	4
.96086	532807	.214028	.004829	052364	023768	.004329	00749	00158	.001514	01246	005473	5
.95412	128851	.412639	.018403	033929	007763	.007935	002874	.00253	.005386	004806	.00029	6
.37591	679206	151644	.011733	052558	020413	.007771	002367	.002702	.004925	003394	.000766	7
.49444	355063	.069693	.043132	003222	.019955	.004943	003869	.000537	.00241	006717	002153	8
.36352	737086	186781	.011309	026215	007453	.002073	010352	004139	.006473	003347	.001563	9
.4506	401211	.024714	.055093	010567	.022263	.004536	002447	.001044	.003374	003003	.000186	10
.46685	098597	.184129	.031729	007725	.012002	.001789	004784	001498	.002524	00298	000228	11
.34898	517409	08421	.08952	002829	.043345	.002691	002938	000123	.002616	002569	.000024	12

95% lower and upper bounds reported.

- (1) irfname = IRF19, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF19, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF19, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF19, impulse = UIGER, and response = UIMLT.

Table 19.7. Malta – Table Dynamic Multiplier

NETHERLANDS

Sample: 2008m5 thru 2022m12

Number of obs = 176

Lag	LL	LR	df	p	FPE	AIC	HQIC	SBIC
0	-463.263				.002488	5.35526	5.41371	5.49938
1	-407.92	110.69	16	0.000	.001591	4.90819	5.08354*	5.34053*
2	-384.479	46.884	16	0.000	.001463	4.82362	5.11588	5.54418
3	-362.4	44.158*	16	0.000	.001366*	4.75454*	5.1637	5.76333

^{*} optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UINLD

Exogenous: UIGER _cons

Table 20.4. Netherlands – Varsoc

Eigenvalue stability condition

Eig	env	value	Modulus
.3283264	+	.6994938 <i>i</i>	.772716
.3283264	-	.6994938 <i>i</i>	.772716
.7677714			.767771
.6929047			.692905
1696867	+	.6188437i	.641686
1696867	-	.6188437i	.641686
.6033983			.603398
5314448	+	.09486402i	.539845
5314448	-	.09486402i	.539845
1839812	+	.2699878i	.326715
1839812	-	.2699878i	.326715
03660851			.036609

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 20.5. Netherlands – Varstable

Lagrange-multiplier test

lag	chi2	d f	Prob > chi2
1	25.4717	16	0.06193
2	16.7767	16	0.40019

H0: no autocorrelation at lag order

Table 20.6. Netherlands – Varlmar

(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Step
	0	0	0	0	0	0	0	0	0	0	0	0
1.0209	.939907	.980431	0	0	0	0	0	0	0	0	0	1
1.0212	.927874	.974564	.034686	016765	.008961	.003112	002867	.000123	.031192	015879	.007657	2
1.01659	.899318	.957953	.03528	015717	.009782	.028765	014618	.007074	.028087	014076	.007005	3
1.01317	.891794	.952483	.0345	015652	.009424	.042234	01477	.013732	.02827	01434	.006965	4
1.01623	.883039	.949635	.033728	014804	.009462	.05102	01522	.0179	.029576	014893	.007342	5
1.0196	.876626	.94814	.033169	014249	.00946	.05072	015013	.017853	.030754	01561	.007572	6
1.0221	.871025	.946573	.033108	014163	.009473	.05129	015326	.017982	.030615	015514	.00755	7
1.0241	.867594	.945855	.034003	01391	.010046	.053327	015912	.018707	.030735	015637	.007549	8
1.0257	.864399	.945076	.033839	013791	.010024	.05379	015953	.018918	.030866	015756	.007555	9
1.02689	.86198	.944437	.033939	013854	.010043	.054266	016104	.019081	.030869	015763	.007553	10
1.0276	.860663	.944156	.033929	01385	.01004	.054882	016349	.019267	.030873	015769	.007552	11
1.02809	.859921	.944006	.033952	013842	.010055	.055044	01642	.019312	.030884	01578	.007552	12

- (1) irfname = IRF20, impulse = UINLD, and response = dUnemploymentrate.
- (2) irfname = IRF20, impulse = UINLD, and response = dLTGBY10Y.
- (3) irfname = IRF20, impulse = UINLD, and response = Inflation.
- (4) irfname = IRF20, impulse = UINLD, and response = UINLD.

Table 20.7. Netherlands – Table FEVD

(4 Uppe	(4) Lower	(4) dm	(3) Upper	(3) Lower	(3) dm	(2) Upper	(2) Lower	(2) dm	(1) Upper	(1) Lower	(1) dm	Step
.61251	.240371	.426444	.078885	.005659	.042272	.017687	00201	.007838	.000179	015073	007447	1
.44299	.087302	.265151	.008799	081723	036462	.008435	014095	00283	.006598	009445	001423	2
.43167	.172786	.302228	.020809	07762	028406	.020731	.003078	.011904	.00429	007046	001378	3
.32424	.110519	.217384	.037491	014114	.011688	.011659	001095	.005282	.001792	006237	002223	4
.23473	.051856	.143295	.029742	01319	.008276	.002962	008672	002855	.002525	004905	00119	5
.23522	.056567	.145897	.031707	006874	.012417	.004801	003762	.00052	.004105	002959	.000573	6
.20011	.041409	.120763	.01745	006708	.005371	.006885	.000304	.003594	.002766	003021	000128	7
.14182	.006281	.074051	.008583	018794	005105	.0044	000532	.001934	.002134	002702	000284	8
.11641	011974	.052221	.005153	015855	005351	.002928	001319	.000805	.001986	002218	000116	9
.10662	011201	.047714	.009014	004391	.002311	.002545	001417	.000564	.001882	001838	.000022	10
.08996	010834	.039566	.011279	001781	.004749	.001629	001295	.000167	.001521	001465	.000028	11
.07352	01241	.030559	.006675	002489	.002093	.001264	000759	.000252	.001316	001086	.000115	12

95% lower and upper bounds reported.

- (1) irfname = IRF20, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF20, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF20, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF20, impulse = UIGER, and response = UINLD.

Table 20.8. Netherlands – Table Dynamics Multiplier

POLAND

Sample: 2008m5 thru 2022m12

Number of obs = 176

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	361.937				1.3e-08	-3.99929	-3.92622	-3.81915
1	441.852	159.83	25	0.000	6.8e-09	-4.62331	-4.36759 *	-3.99282*
2	470.571	57.439*	25	0.000	6.5e-09*	-4.66558*	-4.2272	-3.58473
3	488.317	35.491	25	0.080	7.1e-09	-4.58315	-3.9621	-3.05195

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UIPOL dPLNEUR

Exogenous: UIGER _cons

Table 21.4. Poland – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.8222779	.822278
- 2413971 + 5644116 <i>i</i>	.613867
- 2413971 - 5644116 <i>i</i>	.613867
.5941437 + .1467133 <i>i</i>	.61199
.59414371467133 <i>i</i>	.61199
.1603675 + .5698107 <i>i</i>	.591948
.16036755698107 <i>i</i>	.591948
.4169694 + .3347039 <i>i</i>	.534687
.41696943347039 <i>i</i>	.534687
4730982	.473098
3662971 + .109624 <i>i</i>	.382349
3662971109624 <i>i</i>	.382349
- 1827268 + .2781543 <i>i</i>	.332805
- 18272682781543 <i>i</i>	.332805
.1978118	.197812

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 21.5. Poland – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	31.8877 36.5538	25 25	0.16129 0.06361
2	30.5538	25	0.00301

H0: no autocorrelation at lag order

Table 21.6. Poland – Varlmar

Step	(1) fevd	(1) Lower	(1) Upper	(2) fevd	(2) Lower	(2) Upper	(3) fevd	(3) Lower	(3) Upper	(4) fevd	(4) Lower	(4) Upper
0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	.965153	.911918	1,0183
2	.00637	013149	.025888	.003944	012145	.020033	.007078	015447	.029604	.951384	.889464	1.013
3	.020445	018826	059717	.009512	- 017955	.036979	.020068	018564	.0587	926293	.849927	1.0026
4	.019494	017963	.05695	.009297	- 017176	.035771	.04365	- 012784	.100084	.924999	.845721	1.00428
5	.019269	018748	.057285	.010073	015827	.035973	.049307	015193	.113807	.922982	.840403	1.0055
6	.019062	018048	056172	.010688	016138	.037515	.055059	016278	.126396	.92103	.835782	1,0062
7	.019142	017238	.055522	.010686	016062	.037435	.059968	017451	.137388	.919917	.83237	1.0074
8	.019261	016711	055233	.010697	016114	.037507	.062631	018847	.144108	.919353	.830516	1.0081
9	.019309	01648	055097	.010786	016209	.03778	.064602	019959	.149163	.918818	.829032	1.008
10	.019347	016348	055042	.0108	- 016249	.037849	.066134	02085	.153118	.918531	.828098	1.0089
11	.019366	016286	.055018	.010805	016268	.037878	.06705	021581	.155682	.91836	.827496	1.0092
12	.019372	016259	.055003	.010814	016295	.037923	.067652	022152	.157456	.918205	.827005	1.0094

Step	(5) fevd	(5) Lower	(5) Upper
0	0	0	0
1	.019872	020429	.060173
2	.021813	015399	.059025
3	.023887	013677	.06145
4	.03437	011302	.080043
5	034277	011296	.079851
6	.034304	011128	.079735
7	.036204	011271	.08368
8	.036638	011329	.084606
9	.036818	011251	.084887
10	.037269	01128	.085819
11	.037507	011309	.086323
12	.037614	011296	.086524

95% lower and upper bounds reported.

- (1) irfname = IRF21, impulse = UIPOL, and response = dUnemploymentrate.
- (2) irfname = IRF21, impulse = UIPOL, and response = dLTGBY10Y.
- (3) irfname = IRF21, impulse = UIPOL, and response = Inflation.
- (4) irfname = IRF21, impulse = UIPOL, and response = UIPOL.
- (5) irfname = IRF21, impulse = UIPOL, and response = dPLNEUR.

Table 21.7. Poland – Table FEVD

61	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4)
Step	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper
0	.000213	020005	.02043	.035268	004872	.075408	.023336	041714	.088385	.44993	.272441	.627419
1	002673	014094	.008749	.020153	.000277	.040029	.031265	.003252	.059278	.081325	.007926	.154724
2	006245	015951	.003462	.003386	01716	.023932	.03045	.002472	.058428	.07769	.006559	.148822
3	.004114	003836	.012065	003457	023104	.016191	.032022	.006844	.0572	.148629	.084713	212545
4	.001647	004665	.007959	.003782	007008	.014571	.019801	.005804	.033799	.078142	.037651	.118632
5	.002821	002997	.008638	.003827	003524	.011178	.019218	.006703	.031732	.056446	.020195	.092696
6	.002399	002593	.007391	000128	0059	.005644	.016156	.005446	.026865	.068124	.036001	.100247
7	.001779	002595	.006153	4.6e-06	004214	.004223	.011919	.002739	.0211	.049212	.022763	.075662
8	.001002	002816	.004821	.000706	002495	.003907	.01039	.001959	.018821	.035674	.009487	.061861
9	.000676	002726	.004078	.000407	002117	.00293	.008867	.001088	.016646	.034379	.008683	.060075
10	.000383	002531	.003297	.000373	0017	.002446	.006761	000186	.013709	.028004	.005276	.050732
11	.000207	00225	.002665	.000358	00125	.001966	.005397	000875	.011668	.02153	.000358	.042702
12	.000132	001945	.002209	.000195	001164	.001554	.004466	001182	.010114	.018661	001419	.038741

	(5)	(5)	(5)
Step	dm	Lower	Upper
0	000433	001243	.000378
1	000183	000539	.000173
2	000109	000441	.000224
3	.000159	000131	.000448
4	000034	000224	.000156
5	.000044	000125	.000213
6	.000116	000028	.000259
7	.000057	000048	.000163
8	.000044	00005	.000137
9	.000056	000026	.000139
10	.00004	000023	.000103
11	.000029	000023	.000081
12	.000028	000017	.000072

95% lower and upper bounds reported.

- (1) irfname = IRF21, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF21, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF21, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF21, impulse = UIGER, and response = UIPOL.
- (5) irfname = IRF21, impulse = UIGER, and response = dPLNEUR.

Table 21.8. Poland – Table Dynamic Multiplier

• PORTUGAL

Sample: 2008m9 thru 2022m12 Number of obs = 172

Lag	LL	LR	df	p	FPE	AIC	HQIC	SBIC
0	-829.036				.198191	9.73298	9.79238	9.87938
1	-752.648	152.78	16	0.000	.098215	9.03079	9.20898	9.46998*
2	-724.04	57.216	16	0.000	.084856	8.88419	9.18117	9.61616
3	-695.299	57.483	16	0.000	.073239	8.73603	9.15181	9.7608
4	-668.161	54.275	16	0.000	.064447	8.60653	9.14109*	9.92408
5	-649.186	37.951	16	0.002	.062415	8.57193	9.22528	10.1823
6	-622.974	52.423	16	0.000	.055633	8.45319	9.22534	10.3563
7	-592.915	60.119*	16	0.000	.047483*	8.28971*	9.18065	10.4856

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UIPRT

Exogenous: UIGER _cons

Table 22.4. Portugal – Varsoc

Eiger	ıvalue	Modulus
.9878806		.987881
4819805 +	.8382349i	.966925
4819805 -	.8382349i	.966925
.4759206	.8250644i	.952487
.4759206 -	.8250644i	.952487
.8843778 -	.05518146 <i>i</i>	.886098
.8843778 -	.05518146 <i>i</i>	.886098
8835004		.8835
6931876	.4466199 <i>i</i>	.824608
6931876 -	.4466199 <i>i</i>	.824608
.5813329	.5775473 <i>i</i>	.819456
.5813329 -	.5775473 <i>i</i>	.819456
731108 -	.3386682 <i>i</i>	.805739
731108 -	.3386682 <i>i</i>	.805739
.06347797 +	.8017136 <i>i</i>	.804223
.06347797 -	.8017136 <i>i</i>	.804223
6365653 +	.4807251 <i>i</i>	.797692
6365653 -	.4807251 <i>i</i>	.797692
.7348333 +	.288535 <i>i</i>	.789451
.7348333 -	.288535 <i>i</i>	.789451
2837146 +	.7232403 <i>i</i>	.776898
2837146 -	.7232403 <i>i</i>	.776898
.460939	.5984462 <i>i</i>	.755382
.460939 -	.5984462 <i>i</i>	.755382
.06762485 +	.6781577 <i>i</i>	.681521
.06762485 -	.6781577 <i>i</i>	.681521
.2611344 +	.5625155 <i>i</i>	.620173
.2611344 -	.5625155 <i>i</i>	.620173

All the eigenvalues lie inside the unit circle. $\ensuremath{\mathsf{VAR}}$ satisfies stability condition.

Table 22.5. Portugal – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	28.5034	16	0.02751
2	25.3546	16	0.06381

H0: no autocorrelation at lag order

Table 22.6. Portugal – Varlmar

(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	tep
	0	0	0	0	0	0	0	0	0	0	0	0
1.0209	.950602	.98576	0	0	0	0	0	0	0	0	0	1
1.0193	.920631	.969978	.01229	009168	.001561	.020552	013593	.00348	.035067	016726	.009171	2
1.0006	.847831	.924251	.02036	014366	.002997	.059932	022529	.018702	.031921	012459	.009731	3
.99094	.821173	.906059	.025157	016378	.004389	.06715	022939	.022106	.032436	012177	.01013	4
.98585	.805004	.895429	.041905	017985	.01196	.073282	024877	.024202	.033014	01173	.010642	5
.98700	.792594	.889798	.044545	018489	.013028	.075087	018522	.028282	.034208	012051	.011078	6
.98737	.778	.882689	.036673	014705	.010984	.07462	017648	.028486	.053166	011959	.020603	7
.983	.764018	.873659	.046655	013899	.016378	.073869	017557	.028156	.061093	009629	.025732	8
.98696	.762253	.874609	.04483	013232	.015799	.073278	017393	.027942	.061399	009919	.02574	9
.98989	.752245	.871069	.04638	013801	.016289	.072758	016592	.028083	.060107	00959	.025259	10
.99274	.738105	.865424	.045569	013758	.015906	.073421	015494	.028963	.060275	009512	.025382	11
.99619	.725117	.860657	.052052	016674	.017689	.07294	015131	.028905	.060424	008822	.025801	12

95% lower and upper bounds reported.

- (1) irfname = IRF22, impulse = UIPRT, and response = dUnemploymentrate.
- (2) irfname = IRF22, impulse = UIPRT, and response = dLTGBY10Y.
- (3) irfname = IRF22, impulse = UIPRT, and response = Inflation.
- (4) irfname = IRF22, impulse = UIPRT, and response = UIPRT.

Table 22.7. Portugal – Table FEVD

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4
tep	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Upper	dm	Lower	Uppe
0	003287	037961	.031387	.065791	.006237	.125346	.024653	047151	.096456	.421644	114366	.95765
1	.000083	015057	.015224	.011865	00237	.0261	.025538	005867	.056942	.077599	075897	.231094
2	002178	01588	.011524	.014278	001098	.029655	.001856	019215	.022928	119374	284465	.045717
3	.003743	006304	.013791	.021725	.002628	.040822	.004371	015094	.023835	.045134	140113	.230382
4	.001474	006646	.009594	.005397	008349	.019144	.009621	018891	.038133	.070582	068398	.209562
5	.004786	004885	.014458	.004124	013389	.021636	00445	028151	.01925	.105617	069933	.281167
6	003042	011757	.005674	.000223	012945	.013391	.01358	026063	.053223	.088845	062843	.240533
7	.008981	002023	.019986	.006665	005984	.019315	.011536	010086	.033158	.082569	080676	.245814
8	.007025	001066	.015117	.004609	004978	.014196	010229	034168	.01371	.071156	067027	.20934
9	.003655	003468	.010779	001741	011294	.007813	001318	018089	.015453	.064424	057719	.186567
10	.006323	000394	.013039	.002246	006519	.011011	.001628	020928	.024184	.066335	061636	.194306
11	.003848	001004	.0087	002322	01075	.006105	006425	02296	.01011	.054709	053516	.162934
12	.002634	00239	.007658	.001108	005336	.007552	.015012	01763	.047654	.072013	053153	.197178

95% lower and upper bounds reported.

- (1) irfname = IRF22, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF22, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF22, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF22, impulse = UIGER, and response = UIPRT.

Table 22.8. Portugal – Table Dynamic Multiplier

ROMANIA

Sample: 2008m5 thru 2022m12

Number of obs = 176

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	81.926				3.0e-07	817341	- .744277*	- .6372*
1	120.983	78.114	25	0.000	2.6e-07	97708	721355	346586
2	140.24	38.514	25	0.041	2.8e-07	911821	473435	.169025
3	171.671	62.861*	25	0.000	2.6e-07*	- .984896*	363849	.546304

 \ast optimal lag

 ${\tt Endogenous:} \ \, {\tt dUnemploymentrate} \ \, {\tt dLTGBY10Y} \ \, {\tt Inflation} \ \, {\tt UIROM} \ \, {\tt dRONEUR}$

Exogenous: UIGER _cons

Table 23.4. Romania – Varsoc

Eigenvalue stability condition

Eigenv	alue	Modulus
3037983 +	.6669938 <i>i</i>	.732922
3037983 -	.6669938 <i>i</i>	.732922
6807774		.680777
.6767982		.676798
.6555864		.655586
4453655 +	.407143 <i>i</i>	.60342
4453655 -	.407143 <i>i</i>	.60342
.4979474 +	.3035443 <i>i</i>	.583173
.4979474 -	.3035443 <i>i</i>	.583173
.3520968 +	.3928122 <i>i</i>	.527516
.3520968 -	.3928122 <i>i</i>	.527516
.00768436 +	.5231897 <i>i</i>	.523246
.00768436 -	.5231897 <i>i</i>	.523246
3313849 +	.2785793 <i>i</i>	.432923
3313849 -	.2785793 <i>i</i>	.432923

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 23.5. Romania – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1 2	32.5984	25	0.14142
	27.6030	25	0.32645

H0: no autocorrelation at lag order

Table 23.6. Romania – Varlmar

(4 Uppe	(4) Lower	(4) fevd	(3) Upper	(3) Lower	(3) fevd	(2) Upper	(2) Lower	(2) fevd	(1) Upper	(1) Lower	(1) fevd	Step
	•		0					0	0	0		9
	053150	.986736	0	0	0	9	0	0	0	9	9	1
1,0203	.953158 .910366	963597	.05418	015799	.019191	.051693	017012	.017341	.000594	000584	5.2e-06	2
.96362	.776427	.870026	.073615	019277	.027169	.090802	006014	.042394	.005669	00482	.000425	3
.92395	.738651	.831301	.073414	014704	.029355	.119249	.006313	.062781	.00685	005829	.000511	4
.92451	737717	.831116	.075421	014744	.030339	.123142	0075	065321	.014262	008422	.00292	5
.92364	735763	829703	.075387	014759	.030314	.123179	.007366	.065273	.014187	008379	.002904	6
.92313	.734942	82904	.075349	014688	.03033	.127894	.00877	.068332	.014314	008394	.00296	7
.92267	73306	.827867	.075548	014707	.03042	128567	.008728	.068647	015352	008471	.00344	8
.92257	.730649	.826613	.076397	014708	.030844	.128485	.008752	.068619	.01545	008549	.003451	9
.92253	.730253	.826396	.076427	014672	.030878	.129083	.008731	.068907	.01545	008545	.003453	10
,92253	730226	826379	.076446	014678	.030884	129288	.008732	.06901	.015686	008608	.003539	11
.92252	.730054	826289	.076514	01469	.030912	12927	.008746	.069008	.015705	008619	.003543	12

	(5)	(5)	(5)
Step	fevd	Lower	Upper
0	0	0	0
1	.000605	006343	.007552
2	.016449	018132	05103
3	.016859	017665	.051383
4	.077797	.009124	.14647
5	.080263	.009173	.151352
6	.079533	.009424	.149643
7	.08062	.009845	.151395
8	.081852	.00999	.153714
9	.081967	.009902	.154033
10	.082299	.00981	.154787
11	.082409	.009811	.155007
12	.0824	.009823	.154977

95% lower and upper bounds reported.

- (1) irfname = IRF23, impulse = UIROM, and response = dUnemploymentrate.
- (2) irfname = IRF23, impulse = UIROM, and response = dLTGBY10Y.
- (3) irfname = IRF23, impulse = UIROM, and response = Inflation.
- (4) irfname = IRF23, impulse = UIROM, and response = UIROM.
- (5) irfname = IRF23, impulse = UIROM, and response = dRONEUR

Table 23.7. Romania – Table FEVD

Step	(1) dm	(1) Lower	(1) Upper	(2) dm	(2) Lower	(2) Upper	(3) dm	(3) Lower	(3) Upper	(4) dm	(4) Lower	(4) Upper
	006092	036003	.02382	017401	070295	.035492	.084906	.015904	.153909	1.05324	.485183	1,62129
1	- 00127	- 016172	013632	020456	- 003618	044529	033264	00078	065748	255991	044673	467309
2	000137	010965	.01069	.024084	001602	.04977	.023033	001238	.047304	.419754	.16273	.676778
3	.000288	009702	.010277	.010682	009522	030887	002469	026942	.022004	.023314	215039	.261666
4	.001925	- 004525	.008375	.006375	002668	.015418	.000556	0172	.018311	.10944	015787	.234666
5	.000056	- 004889	.005001	.003425	- 004635	.011485	005274	022047	.0115	01366	- 156786	.129466
6	.001319	001396	.004034	.003305	002743	.009353	.000739	009001	.010478	.073658	009232	.156548
7	.000386	- 001642	.002414	.00093	- 002422	.004281	000128	007085	.006829	.002207	- 061227	.06564
8	.000355	000785	.001496	.001179	001865	.004224	.001685	003109	.006478	.033043	- 022373	.088459
9	.000259	000849	.001366	.001033	00095	.003016	000176	003345	.002992	.007234	02975	.044219
10	.000259	- 000397	.000915	.000752	000617	002122	.000858	00114	.002856	.016369	009176	.041914
11	.000118	000443	.000678	.000348	000941	.001637	.000075	001354	.001503	.000071	024675	.024818
12	.000135	000261	.000532	.000413	000416	.001243	.000239	000701	.00118	.008929	006207	.024065

	(5)	(5)	(5)
Step	dm	Lower	Upper
0	.00041	000046	.000867
1	000099	000258	.000059
2	.000013	000146	.000172
3	000185	000383	.000012
4	000013	000104	.000078
5	000059	000158	.00004
6	-5.7e-06	000066	.000055
7	000027	000066	.000011
8	1.4e-06	000035	.000038
9	000016	000036	2.9e-06
10	-1.7e-06	000017	.000014
11	-6.3e-06	00002	7.0e-06
12	-1.4e-06	00001	7.4e-06
	I		

95% lower and upper bounds reported.

- (1) irfname = IRF23, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF23, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF23, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF23, impulse = UIGER, and response = UIROM.
- (5) irfname = IRF23, impulse = UIGER, and response = dRONEUR.

Table 23.8. Romania – Table Dynamic Multiplier

• SLOVAKIA

Sample: 2008m4 thru 2022m12 Number of obs = 177

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-493.285				.003389	5.66423	5.72245	5.80779
1	-411.671	163.23	16	0.000	.001615	4.92283	5.09749	5.3535*
2	-380.601	62.14*	16	0.000	.001362*	4.75255*	5.04365*	5.47032

 $[\]ast$ optimal lag

 ${\tt Endogenous:} \ \, {\tt dUnemploymentrate} \ \, {\tt dLTGBY10Y} \ \, {\tt Inflation} \ \, {\tt UISVK}$

Exogenous: UIGER _cons

Table 24.4. Slovakia — Varsoc Eigenvalue stability condition

Eigenvalue	Modulus
.8267964	.826796
.6645892	.664589
.1597506 + .5491285 <i>i</i>	.571894
.15975065491285 <i>i</i>	.571894
4954356	.495436
2899669	.289967
.1887301	.18873
.01208011	.01208

All the eigenvalues lie inside the unit circle. $\ensuremath{\mathsf{VAR}}$ satisfies stability condition.

Table 24.5. Slovakia – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	11.6056	16	0.77066
	13.1188	16	0.66405

H0: no autocorrelation at lag order

Table 24.6. Slovakia – Varlmar

	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(4)	(4)	(4)
Step	fevd	Lower	Upper	fevd	Lower	Upper	fevd	Lower	Upper	fevd	Lower	Upper
0	0	0	0	0	0	0	0	0	0	9	0	
1	0	0	0	0	0	0	0	0	0	.938531	.869972	1,00709
2	7.2e-06	000666	.000681	.002057	009955	.014068	.001205	008433	.010844	.880244	.784392	976095
3	.00002	000798	.000837	.004679	010064	.019422	.001062	007408	.009533	.859619	.762905	.956334
4	.000062	000844	.000967	.006619	014208	027446	.001292	008652	.011236	850182	.749569	950794
5	.000063	001084	.001211	.006623	014217	.027464	.001316	008806	.011437	.843163	.739577	.946749
6	.000061	001048	.001169	.006727	0144	.027853	.001344	009013	.011701	.838966	.732839	.945093
7	.000059	000996	.001114	.00673	014394	.027854	.001343	009029	.011714	.835979	.727844	.944114
8	.000058	001026	.001143	.00674	014426	027905	.001345	009054	.011744	.833965	.724275	943655
9	.000058	001066	.001183	.006747	014444	027937	.001346	009063	.011754	.832584	.721744	943424
10	.000058	001089	.001205	.006746	014442	027935	.001347	009069	.011762	.831654	.719973	943334
11	.000058	001099	.001215	.006746	014441	.027934	.001347	00907	.011763	.831019	.718727	.943312
12	.000058	001107	.001223	.006746	014441	.027932	001347	00907	.011764	830586	717849	943323

95% lower and upper bounds reported.

- (1) irfname = IRF24, impulse = UISVK, and response = dUnemploymentrate.
- (2) irfname = IRF24, impulse = UISVK, and response = dLTGBY10Y.
- (3) irfname = IRF24, impulse = UISVK, and response = Inflation.
- (4) irfname = IRF24, impulse = UISVK, and response = UISVK.

Table 24.7. Slovakia – Table FEVD

(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Step
.98492	.009533	.497228	.109979	.021605	.065792	.041446	01001	.015718	.023718	009789	.006964	0
.42934	.081419	.255381	.027365	.001985	.014675	.01954	001363	.009089	.011111	006464	.002324	1
.09688	1781	040608	.040213	.009496	.024854	.015089	004942	.005074	.010145	00555	.002297	2
.1064	069375	.018547	.016535	.001383	.008959	.009989	003923	.003033	.00782	004446	.001687	3
.04441	083237	01941	017003	.002415	.009709	.003905	000937	.001484	.0063	00398	00116	4
.04324	045022	000889	.009233	00025	.004492	.00341	001194	.001108	.005265	003414	.000926	5
.02747	04318	- 007852	.008138	000306	.003916	.002071	000453	.000809	.004349	003097	.000626	6
.02494	029604	002329	.005104	000846	.002129	.001668	000516	.000576	.003635	002668	.000483	7
.01883	025619	003394	.00412	000839	.001641	.001113	000444	.000335	.003031	002328	.000352	8
.0163	019872	001756	.002759	000835	.000962	.000723	000311	.000206	.002537	001984	.000276	9
.01327	016876	001802	.002114	00074	.000687	.000538	000265	.000136	.002118	001699	.000209	10
.01135	- 013751	001198	.001471	000628	.000422	.000396	000202	000097	.001766	001439	.000164	11
.00946	011542	001037	.001101	000522	.00029	.000296	000171	.000062	.001471	001217	.000127	12

95% lower and upper bounds reported.

- (1) irfname = IRF24, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF24, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF24, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF24, impulse = UIGER, and response = UISVK.

Table 24.8. Slovakia – Table Dynamic multiplier

SLOVENIA

Sample: 2008m4 thru 2022m12 Number of obs = 177

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-805.457				.115336	9.1916	9.24982	9.33516
1	-736.511	137.89	16	0.000	.063415	8.59335	8.76801*	9.02401*
2	-717.966	37.091*	16	0.002	.06164*	8.56459*	8.85569	9.28236

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UISVN

Exogenous: UIGER _cons

Table 25.4. Slovenia – Varsoc

Eigenvalue stability condition

F	
Eigenvalue	Modulus
.3052983 + .4148034 <i>i</i>	.515043
.30529834148034 <i>i</i>	.515043
.4021861 + .2475295 <i>i</i>	. 472255
.40218612475295 <i>i</i>	472255
.2179378 + .3256507 <i>i</i>	.391849
.21793783256507 <i>i</i>	.391849
1759498 + .2432817 <i>i</i>	.30024
17594982432817 <i>i</i>	.30024

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 25.5. Slovenia – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	30.2599	16	0.01670
2	16.6968	16	0.40547

H0: no autocorrelation at lag order

Table 25.6. Slovenia – Varlmar

(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	1
Uppe	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Upper	Lower	fevd	Step
	0	0	0	0	0	0	0	0	0	0	0	0
1.0189	.962047	.990497	0	0	0	0	0	0	0	0	0	1
1,0119	.891556	.951741	.00549	004796	.000347	.002931	002705	.000113	.0222	011815	.005192	2
1.0048	.877138	.940991	.007479	005851	.000814	.023325	014923	.004201	.069403	023937	.022733	3
1.0043	.868323	.936356	.009811	00747	.001171	.023258	014904	.004177	.091742	030351	.030696	4
1.0043	.868102	.936211	.009787	007369	.001209	.023126	014432	.004347	.098212	031427	.033393	5
1.0043	.867905	.936114	.010158	007422	001368	.023285	014488	.004399	.098798	031255	.033771	6
1.0043	.867805	.936064	.010317	007436	.00144	023331	014525	.004403	09869	031193	.033749	7
1.0043	.867788	.936055	.01033	007427	.001451	.023325	014518	.004403	.098709	031208	03375	8
1,0043	867784	.936053	.010329	007426	.001452	023324	014516	.004404	09873	031214	.033758	9
1.0043	867781	.936052	.010329	007425	001452	.023325	014517	.004404	.098734	031214	.03376	10
1.0043	.86778	.936052	.010329	- 007425	001452	.023325	014517	.004404	.098734	031213	.03376	11
1.0043	.86778	.936052	.010329	007424	.001452	.023325	014517	.004404	.098734	031213	.03376	12

95% lower and upper bounds reported.

- (1) irfname = IRF25, impulse = UISVN, and response = dUnemploymentrate.
- (2) irfname = IRF25, impulse = UISVN, and response = dLTGBY10Y.
- (3) irfname = IRF25, impulse = UISVN, and response = Inflation.
- (4) irfname = IRF25, impulse = UISVN, and response = UISVN.

Table 25.7. Slovenia – Table Dynamic Multiplier

(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Step
2.4317	.526423	1.4791	.12886	028286	.050287	.06235	002831	.02976	.025453	012825	.006314	0
.61125	047675	.281789	.042368	015862	.013253	.029981	0004	.01479	.014029	012213	.000908	1
.42875	- 137583	.145587	027342	025092	.001125	.019652	002617	.008518	.001225	015841	007308	2
.20979	069449	.070173	.019601	015579	.002011	.007229	007357	000064	000684	014575	007629	3
.07752	081939	002205	.007498	008004	000253	.002317	007232	002457	000435	010276	005356	4
.0538	064385	005288	.003809	008165	002178	.001321	004598	001639	.000749	005607	002429	5
.03799	042602	002304	002214	006961	002374	.001615	002664	000524	.001866	002607	00037	6
.02194	- 026413	002235	001093	003862	001385	.001549	001341	.000104	.002019	001183	.000418	7
.00966	- 014242	002288	.000898	001535	000318	.000991	000555	.000218	.001423	000554	.000435	8
.00424	007922	001839	.00112	000718	.000201	000525	000292	.000116	.000794	000358	.000218	9
.00261	004405	000895	.000872	000375	.000248	.000309	000271	.000019	.000411	000315	.000048	10
.00203	002254	000112	.000463	000216	.000124	.000174	000209	000017	.000209	000244	000017	11
.00148	001076	.000202	.000219	000179	.00002	.000084	000115	000015	.000107	000151	000022	12

95% lower and upper bounds reported.

- (1) irfname = IRF25, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF25, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF25, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF25, impulse = UIGER, and response = UISVN.

Table 25.8. Slovenia – Table Dynamic Multiplier

• SPAIN

Sample: 2008m5 thru 2022m12

Number of obs = 176

Lag	LL	LR	df	р	FPE	AIC	HQIC	SBIC
0	-536.819				.00574	6.19112	6.24957	6.33523
1	-356.977	359.68	16	0.000	.000892	4.32929	4.50464	4.76163*
2	-336.767	40.421	16	0.001	.000851	4.28144	4.5737	5.002
3	-303.274	66.986*	16	0.000	.000698*	4.08266*	4.49182*	5.09145

* optimal lag

Endogenous: dUnemploymentrate dLTGBY10Y Inflation UIESP

Exogenous: UIGER _cons

Table 26.4. Spain – Varsoc

Eigenvalue stability condition

Eigenvalue	Modulus
.9248117 .7956589 .3898525 + .6655127 <i>i</i> .38985256655127 <i>i</i> 7019566 6007216 .16068 + .4155854 <i>i</i>	.924812 .795659 .771293 .771293 .701957 .600722
.160684155854 <i>i</i> 1402392 + .4025028 <i>i</i> 14023924025028 <i>i</i> .08384955 + .1184628 <i>i</i> .083849551184628 <i>i</i>	.445566 .426234 .426234 .145135 .145135

All the eigenvalues lie inside the unit circle.

VAR satisfies stability condition.

 $Table\ 26.5.\ Spain-Varstable$

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	16.0191	16	0.45163
2	13.4623	16	0.63871

H0: no autocorrelation at lag order

Table 26.6. Spain -Varlmar

Step	(1) fevd	(1) Lower	(1) Upper	(2) fevd	(2) Lower	(2) Upper	(3) fevd	(3) Lower	(3) Upper	(4) fevd	(4) Lower	(4 Uppe
0	0	0	0	0	0	0	0		0	0	0	
1	0	0	0	0	0	0	0	0	0	.973753	.927139	1.0203
2	.00162	00785	.011089	.019824	017779	.057427	3.8e-06	000529	.000537	.969793	.921957	1.0176
3	.008327	008741	025395	.026753	018494	.072001	.000207	003609	.004022	.951549	.89354	1.00956
4	.007258	00672	021236	029272	018931	.077475	.001183	005194	.007561	.932827	.859767	1,00589
5	.006813	004322	017947	.029128	018466	.076721	.001171	005224	007565	.921776	.835022	1.0085
6	.007292	003668	.018251	.029079	018223	.07638	.001299	006253	.00885	.91008	.808236	1.01192
7	.008108	006195	.022412	.029389	- 017772	.076549	.001447	006118	.009013	.898839	.781368	1,01631
8	.009307	010744	029358	.02937	017626	.076366	.001443	0061	.008985	.887878	.7548	1.02096
9	.010844	015899	037586	.029358	017526	.076243	.001471	006166	.009108	877554	729267	1.02584
10	.012422	021023	045866	.029355	017518	.076228	.001489	006257	009236	867824	.705198	1.03045
11	.014111	025971	.054194	.029413	01748	.076306	.001489	006233	.009211	.858936	.682908	1.03496
12	.015646	030469	.061761	.029453	- 017423	.076329	.001489	006248	.009227	.851034	.66278	1.03929

95% lower and upper bounds reported.

- (1) irfname = IRF26, impulse = UIESP, and response = dUnemploymentrate.
- (2) irfname = IRF26, impulse = UIESP, and response = dLTGBY10Y.
- (3) irfname = IRF26, impulse = UIESP, and response = Inflation.
- (4) irfname = IRF26, impulse = UIESP, and response = UIESP

Table 26.7. Spain – Table FEVD

(4	(4)	(4)	(3)	(3)	(3)	(2)	(2)	(2)	(1)	(1)	(1)	
Uppe	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Upper	Lower	dm	Step
.53186	.201885	.366876	.160416	01673	.071843	.099504	.032502	.066003	.043282	005686	.018798	0
.23729	.056769	.147032	.071224	004272	033476	.022226	008891	.006668	022204	01088	.005662	1
.15304	011805	.070618	.032471	037226	002378	.002789	027751	- 012481	.02883	005036	.011897	2
.18572	.038038	.111882	.019099	092288	036595	.015695	011016	.00234	022341	002538	.009901	3
.16338	.04457	.103978	.005489	042861	018686	.008378	007816	.000281	019292	003346	.007973	4
.12665	.023561	.075106	.014571	019416	002423	.004017	009483	002733	.016785	00302	.006882	5
.10425	.006791	.055525	.037811	009108	.014352	.00219	008034	002922	.014286	- 0037	.005293	6
.09126	000081	.04559	.018486	00337	.007558	.004299	003567	.000366	012382	004449	.003967	7
.08150	003651	.038927	.00882	008446	.000187	.00485	001699	.001576	.010147	005618	.002264	8
.07601	005042	.035486	.005577	019952	007188	.00355	00114	.001205	.008862	005948	.001457	9
.06867	008107	.030283	.002813	011336	004261	001528	002216	000344	.00783	006157	.000836	10
.06109	010992	.025051	.004058	005127	000534	.000918	002843	000962	.007313	005757	.000778	11
.05387	013909	.019982	.008456	002712	.002872	.000666	002111	000723	.006572	005622	.000475	12

95% lower and upper bounds reported.

- (1) irfname = IRF26, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF26, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF26, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF26, impulse = UIGER, and response = UIESP.

Table 26.8. Spain – Table Dynamic Multiplier

• SWEDEN

Sample: 2008m4 thru 2022m12

Number of obs = 177

Lag	LL	LR	d f	р	FPE	AIC	HQIC	SBIC
0	279.884				3.3e-08	-3.04954	-2.97676	-2.8701*
1	322.276	84.784	25	0.000	2.7e-08*	-3.24606*	-2.99134*	-2.618
2	342.529	40.505*	25	0.026	2.8e-08	-3.19241	-2.75576	-2.11575

* optimal lag

 ${\tt Endogenous:} \ \, {\tt dUnemploymentrate} \ \, {\tt dLTGBY10Y} \ \, {\tt Inflation} \ \, {\tt UISWE} \ \, {\tt dSEKEUR}$

Exogenous: UIGER _cons

Table 27.4. Sweden – Varsoc

Eigenvalue stability condition

Eigenv	Eigenvalue						
1484403 +	.4914486 <i>i</i>	.513377					
1484403 -	.4914486 <i>i</i>	.513377					
.4385669		.438567					
3134646 +	.3046228 <i>i</i>	.437098					
3134646 -	.3046228 <i>i</i>	.437098					
.3513644 +	.2470612 <i>i</i>	.42953					
.3513644 -	2470612 <i>i</i>	.42953					
3548719		.354872					
.06316376 +	.2381084 <i>i</i>	.246344					
.06316376 -	.2381084 <i>i</i>	.246344					

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

Table 27.5. Sweden – Varstable

Lagrange-multiplier test

lag	chi2	df	Prob > chi2
1	46.6929	25	0.00533
2	16.9505	25	0.88358

H0: no autocorrelation at lag order

Table 27.6. Sweden – Varlmar

Step	(1) fevd	(1) Lower	(1) Upper	(2) fevd	(2) Lower	(2) Upper	(3) fevd	(3) Lower	(3) Upper	(4) fevd	(4) Lower	(4) Upper
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	965793	913163	1,01842
2	.004734	013966	.023434	.002827	012237	.01789	.01079	019944	.041523	.929972	.851629	1.00831
3	.022008	023312	.067327	.003516	010271	.017303	.010442	019378	.040262	.899052	.805791	.992313
4	.021731	022949	06641	.00373	011386	.018846	.010714	- 018715	.040144	.897519	.80305	.991989
5	.022128	023104	.067359	.003731	- 011342	.018805	.010765	018556	.040087	.89647	.800961	.991979
6	.022323	023263	.067909	.003746	- 011372	.018865	.010796	018497	.040088	.89592	.799828	.992012
7	.022323	023261	.067908	.003761	011397	.01892	.010795	01849	.040081	.895784	.799563	992006
8	.022336	023267	.067938	.003761	011397	.01892	.010798	018489	.040085	.895778	.799549	.992007
9	.022336	023267	.067939	.003761	011397	.01892	.0108	018489	.040088	.895773	.799539	.992007
10	.022336	023267	.06794	.003762	- 011397	.01892	.0108	018489	.040088	.895772	.799537	.992007
11	.022336	023267	.06794	.003762	011397	.01892	.0108	018489	.040088	.895772	.799537	.992007
12	.022336	023267	.06794	.003762	011397	.01892	.0108	018489	.040088	.895772	.799537	.992007

	(5)	(5)	(5)
Step	fevd	Lower	Upper
0	0	0	0
1	.005315	015588	.026218
2	.017927	019501	.055355
3	.01782	019289	.054928
4	.017819	019296	.054934
5	.017976	- 01911	.055062
6	.017975	019109	.055059
7	.017975	019109	.05506
8	.017977	019108	.055062
9	.017977	019108	.055062
10	.017977	019108	.055062
11	.017977	019108	.055062
12	.017977	019108	.055062

95% lower and upper bounds reported.

- (1) irfname = IRF27, impulse = UISWE, and response = dUnemploymentrate.
- (2) irfname = IRF27, impulse = UISWE, and response = dLTGBY10Y.
- (3) irfname = IRF27, impulse = UISWE, and response = Inflation.
- (4) irfname = IRF27, impulse = UISWE, and response = UISWED
- (5) irfname = IRF27, impulse = UISWE, and response = dSEKEUR.

Table 27.7. Sweden – Table FEVD

Step	(1) dm	(1) Lower	(1) Upper	(2) dm	(2) Lower	(2) Upper	(3) dm	(3) Lower	(3) Upper	(4) dm	(4) Lower	(4) Upper
0	057119	107199	007038	017494	007081	.042069	122575	.055148	.190003	723985	.260898	1.18707
1	.024187	013701	.062076	.008459	002269	.019186	.002322	03152	036164	.333689	.127513	539865
2	.011137	012971	.035245	.00122	008928	.011368	.017143	010767	.045054	.250413	.06692	.433906
3	009427	022853	.003998	00123	007078	.004619	002523	015314	.010269	.098294	006748	203336
4	.005132	002392	.012657	000019	003272	.003235	.000685	007906	.009276	.052473	023355	128301
5	.001195	00297	.005361	.000409	001254	.002073	.000634	003804	.005072	.014896	030532	.060323
6	000919	003573	.001734	.00009	000765	.000944	00114	004215	001936	.010715	017807	039238
7	.000266	000937	.001469	8.8e-06	000364	.000381	.000269	000735	.001274	.003118	011504	.01774
8	.000165	000597	.000927	.000061	000103	.000225	.000184	000575	.000943	000399	008596	.007798
9	000065	000477	.000347	.00002	000057	.000096	000103	000437	.000231	.000624	003248	.004496
10	000024	000227	.000179	-6.0e-06	000046	.000034	.000036	000111	.000182	.000326	001699	.00235
11	.000023	000091	.000137	2.2e-06	000016	.00002	.000026	000061	.000113	000061	001025	.000902
12	3.7e-06	000057	.000064	2.4e-06	-9.7e-06	.000014	-6.4e-06	00005	.000037	.000057	00038	.000494

Step	(5) dm	(5) Lower	(5) Upper
0	.000035	000226	.000297
1	00008 -2.9e-06	000206 000097	.000046
3 4	9.2e-08 1.0e-06	000044	.000044
5 6 7	-3.2e-06 2.9e-06 1.4e-07	000017 -5.1e-06 -2.3e-06	00001 000011 2.6e-06
8	1.4e-07 1.0e-07 2.1e-07	-1.5e-06 -4.1e-07	1.7e-06 8.2e-07
10 11	2.5e-08 -1.5e-08	-2.5e-07 -1.8e-07	3.0e-07 1.5e-07
12	7.5e-11	-7.9e-08	7.9e-08

95% lower and upper bounds reported.

- (1) irfname = IRF27, impulse = UIGER, and response = dUnemploymentrate.
- (2) irfname = IRF27, impulse = UIGER, and response = dLTGBY10Y.
- (3) irfname = IRF27, impulse = UIGER, and response = Inflation.
- (4) irfname = IRF27, impulse = UIGER, and response = UISWE.
- (5) irfname = IRF27, impulse = UIGER, and response = dSEKEUR.

Table 27.8. Sweden – Table Dynamic Multiplier

Appendix B

• AUSTRIA

Sample: 2008m8 Log likelihood		_458.912			Number of AIC	obs	_	17: 6.50765:
FPE	=	.0079492			HQIC		=	7.27669
Det(Sigma_ml)	-	.0023669			SBIC		-	8.40327
Equation		Parms	RMSE	R-sq	ch12	P>ch12		
Unemploymentrat	e .	26	.415321	0.7255	457.2734	0.0000		
dLTGBY10Y		26	155548	0.3706	101.8459	0.0000		
Inflation		26	.343669	0.5209	188.1277	0.0000		
UTAUT		26	3.1373	9.2364	53.5579	0.0008		

dLTGBY10Y Inflation UIAUT	26 .34	55548 0 37 43669 0 52 1373 0 23	09 188	8459 1277 5579	0.0000 0.0000 0.0008	
01701	26 3.	.13/3 6.23	64 53	.55/9	0.0008	
	Coefficient	Std. err.	z	P> z	[95% conf.	intervall
Unemploymentrate Unemploymentrate						
L1. L2.	614017 1960194	.0753739 .0861536	8.15 2.28	0.000 0.023	.4662869 .0271614	761747 3648774
L3. L4.	.089783 0602073	.0872513 .0887563	1.03 -0.68	0.303	0812264 2341664	.2607924
L5. L6.	- 2301615 2582134	.0876907 .0759366	-2.62 3.40	0.009	- 402032 1093804	- 0582909 4070463
dLTGBY10Y L1.	0164233	1944731	-0.08	0.933	3975836	3647371
L2. L3.	1639699 1148817	1995475	0 82 0 57	0.411 0.567	2271361 2788584	5550758 5086219
L4. L5.	- 2909367 4007599	204707 2065396	-1.42 1.94	0.155 0.052	- 6921551 - 0040502	1102817 80557
L6.	.2195677	.2108451	1.04	0.298	1936811	.6328165
Inflation L1.	1717679 .0366115	.0864893 .0846415	-1.99 0.43	0.047	3412839 1292828	002252 2025057
L2. L3. L4.	- 1283888 - 012176	0846415 088072 0893023	-1.46 -0.14	0.665 0.145 0.892	1292828 3010066 1872053	0442291 1628533
L5. L6.	- 1483774 - 0152537	0870797 0882894	_1.70 _0.17	9 988 9 863	- 3190505 - 1882977	0222958
TUALU						
L1. L2.	0066326 0041117	.0101862 .0096966	0.65 0.42	0.515 0.672	0133321 0148932 0098925	.0265972 .0231166
L3.	.0091038 0042078 .0082499	.0096922 .0096985 .0096259	0.94 -0.43	0.348 0.664	- 0232165	0281001 0148009
L5. L6.	0082499	0095482	0.86 0.79	0.391 0.431	0106164 0111931	.0271163 .0262352
UIGER _cons	- 0431719 8539602	.0323692 .3365193	-1.33 2.54	0.182 0.011	- 1066143 1943944	.0202706 1.513526
dLTGBY10Y						
Unemploymentrate L1.	.0148553	.0282294	0.53	0.599 0.362	0404733	.0701838
L2. L3.	0294431 - 0768544	0322667 0326778 0332414	0.91 -2.35 -0.13	0.019	0337984 1409016 0695952	0926846 - 0128071
L4. L5. L6.	- 0044432 0275958 0192534	0332414 0328423 0284401	0.84 0.68	0.894 0.401 0.498	- 0695952 - 0367739 - 0364882	0607088 0919656 0749951
dLTGBY10Y	.0192534	.0284401	0.68	0.498	0364882	.0749951
L1. L2.	2461235 - 1462585	072835 0747355	3.38	0.001 0.050	.1033696	3888775 0002203
L3.	0351907 0389743	0752388 0766678	0.47 0.51	0.640 0.611	- 2927373 - 1122747 - 1112919	.1826561 .1892405
L5. L6.	- 0787819 - 1151564	0773542 0789667	-1.02 -1.46	0.308 0.145	- 2303932 - 2699282	0728295 0396155
Inflation						
L1. L2.	0193505 0316796	.0323924 .0317003	0.60 1.00	0.550 0.318	- 0441374 - 0304519	.0828384 .0938111
L3.	.0278851 0305068 0890515	0329851 0334459 0326135	0.85 -0.91 -2.73	0.398 0.362 0.006	- 0304519 - 0367645 - 0960595 - 1529728	0925348 035046 - 0251302
L5. L6.	.0700344	.0320133	2.12	0.034	.0052252	1348437
UIAUT L1.	0005032	.003815	-0.13	0.895	0079805	.0069741
L2. L3.	.0040391 0056814	0036316 00363	1.11	0.266 0.118	- 0030788 - 012796	.0111569
L4. L5.	.0037205 .0050206	.0036323	1.02	0.306 0.164	0033987 0020453	0108398 0120865
L6.	.0035906	.003576	1.00	0.315	0034184	.0105995
UIGER _cons	.0395926 295337	.0121231 .1260348	3.27 -2.34	0.001 0.019	.0158318 5423607	.0633533 0483134
Inflation Unemploymentrate						
L1. L2.	0121388 .0408695 1530936	.0623703 .0712903	-0.19 0.57 -2.12	0.846 0.566 0.034	1343823 0988569	.1101047 .1805959
L3. L4.	0625295	0721986 0734439	0.85	0.395	- 2946002 - 0814179	- 011587 206477
L5. L6.	0619293 036346	.0725622 .0628359	0.85 0.58	0.393 0.563	- 08029 - 0868101	.2041485 .1595021
dLTGBY10Y L1.	.7439926	.1609224	4.62	0.000	.4285905	1.059395
L2. L3.	- 0995804 3527717	1651213 1662335	-0.60 2.12	9.546 9.034	- 4232123 02696	2240514 6785833
L4.	- 1840665 547928	.1693907 .1709071	-1.09 3.21	9.277	- 5160662 2129562	1479332 8828998
L6.	3072011	.1744698	-1.76	0.078	6491557	0347535
Inflation L1.	.1186217	.0715681	1.66	0.097	0216491	.2588925
L2.	- 3335457 1618284	070039 0728777	-4.76 2.22	0.000 0.026	- 4708197 0189908	1962717 .3046661
L4. L5. L6.	- 2527746 - 077795 - 4153135	0738958 0720566 0730576	-3.42 1.08 5.68	0.001 0.280 0.000	- 3976076 - 0634334 2721232	- 1079416 2190234 5585037
UIAUT	.4153135	.0/305/6	5.66	0.000	.2/21232	.5585037
L1. L2.	.0094047 0053807	.0084289 .0080237	1.12 -0.67	0.265 0.502	0071157 0211068	025925 0103455
L3. L4.	- 008073 018946	.0080201	-1.01 2.36	0.502 0.314 0.018	- 0237921 0032167	007646 0346753
L5. L6.	0059256 0000749	.0079652 .0079009	0.74	0.457 0.992	0096859 0154107	.0215371 .0155605
UIGER	.0318775	.0267848	1.19	0.234	0206197	0843748
cons	2691202	.2784626	-0.97	0.334	8148969	.2766564
UIAUT Unemploymentrate L1.	.2798899	-5693688	0.49	0.623	8360524	1.395832
L1. L2. L3.	- 6481821 - 0056058	6597984 65909	-1.00 0.01	0.319 0.993	-1.923724 -1.286187	6273593 1 297399
L4. L5.	0069466 - 6876329	6704586 6624091	0.01	0.992	-1.307128 -1.985931	1.321021
L6.	.0927041	5736196	0.16	0.872	-1.03157	1.216978
dLTGBY10Y L1.	-2.018194	1.469036	-1.37	0.169	-4.897452	.8610646
L2. L3.	3786152 2 054101	1.507368 1.51752	0.25 1.35	0.802 0.176 0.107	9201847	3.333002 5.028386
L4. L5.	-2.491352 3.773398 2818638	1 546342 1 560185 1 592709	-1.61 2.42 -0.18	0 107 0 016 0 860	-5.522128 .7154904 -3.403516	5394233 6 831305 2 839789
L6. Inflation	2618638	1.592709	-0.18	0.860	-3.403516	∠.639789
L1.	1.113355 474833	6533342 6393759	1.70 0.74	0.088 0.458	- 1671562 - 7783208	2.393867 1.727987
L3. L4.	9909036 5170375	6652894 6745833	1.49 0.77	0.136 0.443	- 3130396 - 8051214	2.294847 1.839196
L5. L6.	0238083 - 2318797	6577942 6669319	0 04 -0 35	0 971 0 728	-1.265445 -1.539042	1.313061
UIAUT						
L1. L2.	- 0222388 - 0838849	.0769461 .0732471	-0.29 -1.15	0.773 0.252	- 1730505 - 2274466	1285729 0596767
L3. L4.	- 0729406 039871	0732139 0732619 0727131	0.54	0 319 0 586	- 2164372 - 1037197 - 1581877	070556 1834616
L5. L6.	0156726 .0882643	0727131 0721266	1.22	0.829 0.221	- 1581877 - 0531012	1268425 2296298
UIGER _cons	4242308 8 73359	2445145 2 542043	1.73 3.44	0.083 0.001	0550087 3.751277	9034704 13 7159

VAR 1. Austria – VAR model with 6 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• BELGIUM

Sample: 2008m6 th	ru 2022m12			Number o	f obs	=	175
Log likelihood =	-331.2422			AIC		=	4.608483
FPE =	.0011825			HQIC		=	5.136645
Det(Sigma_ml) =	.0005178			SBIC		=	5.910566
Equation	Parms	RMSE	R-sq	chi2	P>chi2		
dUnemploymentr~e	18	.140441	0.5587	221.5164	0.0000		
dLTGBY10Y	18	.17514	0.2518	58.9098	0.0000		
Inflation	18	.330144	0.3244	84.03398	0.0000		
UIBEL	18	3.52797	0.5671	229.269	0.0000		

	Coefficient	Std. err.	z	P> z	[95% conf.	interval
dUnemploymentrate	1					
dUnemploymentrate	.6784826				.5367719	
L1 L2	- 0800368	.0723027 .0797659	9.38 -1.00	0.000 0.316	- 236375	.820193 .076301
L3.	4879286	.0795636	-6.13	0.000	6438704	331986
L4.	.2000862	.072003	2.78	0.005	.058963	.341209
dLTGBY10Y L1.	1045411	.0597723	-1.75	0.080	2216927	.012610
L2.	0007912	0634947	0.01	0.990	- 123656	.125238
L3. L4.	0517279 - 0327119	.0648107 .0640477	0.80 -0.51	0.425 0.610	- 0752986 - 158243	178754 092819
	032/119	.0040477	-0.51	0.010	130243	.092019
Inflation L1.	.0072952	.0326907	0.22	0.823	0567773	.071367
L2.	0556704	.0317591	-1.75	0.080	1179172	.006576
L3. L4.	- 01595 0614958	.0339018 .0350073	-0.47 1.76	0.638 0.079	0823964 0071172	.050496 .130108
	.0014330	.0330073	1.70	0.073	-100/11/1	.130100
UIBEL L1.	0048448	.0029357	-1.65	0.099	0105988	.000909
L2.	.0073882	.0029731	2.49	0.013	.001561	.013215
L3. L4.	.0069112 0053947	.0029903 .0029309	2.31 -1.84	0.021 0.066	.0010502 0111392	012772 000349
UIGER _cons	0148771 .0209674	.0110037 .0370852	-1.35 0.57	0.176 0.572	0364441 0517183	.006689
	.0203074	.0370032			0517105	. 093033
d LTGBY10Y dUnemploymentrate						
L1.	0320518	.0901668	-0.36	0.722	2087755	.144671
L2.	0303419 0481434	.0994739	-0.31	0.760	- 2253072	164623
L3. L4.	- 0481434	0992216 089793	-0.49 -0.01	0.628 0.988	- 2426143 - 1773178	.146327 .174664
			,		_	
dLTGBY10Y L1.	.2934493	.0745405	3.94	0.000	.1473527	.439545
L2.	268589	.0791825	-3.39	0.001	- 4237839	113394
L3. L4.	.066923 .0131068	.0808236 .0798721	0.83 0.16	0.408 0.870	0914885 1434398	.225334
			0.10			. 209033
Inflation L1.	0051266	.0407677	-0.13	0.900	0850297	.074776
L2.	0180686	039606	0.46	0.648	0595577	095694
L3.	.0702406	.0422781	1.66	0.097	0126229	.153104
L4.	.0161954	.0436567	0.37	0.711	06937	.101760
UIBEL						
L1. L2.	0070909 .0026587	.0036611 .0037077	-1.94 0.72	0.053 0.473	0142665 0046083	.000084
L3.	0014524	.0037292	-0.39	0.697	0087614	.005856
L4.	.0033514	.0036551	0.92	0.359	0038124	010515
UIGER	.0402919	.0137225	2.94	0.003	.0133963	.067187
_cons	175521	.046248	-3.80	0.000	2661654	- 084876
Inflation						
dUnemploymentrate L1.	0593311	.1699665	-0.35	0.727	3924594	273797
L2.	1358556	.1875107	-0.72	0.469	5033698	.231658
L3. L4.	1709815 0627241	1870352 169262	-0.91 -0.37	0.361 0.711	5375637 3944714	.195600
U. T.C.D.V.4.0.V						
dLTGBY10Y L1.	.364197	.1405105	2.59	0.010	.0888014	639592
L2.	2021035	.1492609	-1.35	0.176	4946495	.090442
L3. L4.	.1472372 .2585426	.1523545 .1505609	0.97 1.72	0.334 0.086	- 1513721 - 0365513	.445846
	12303420			0.000	.0000020	
Inflation	0336199	076848	0 44	0 662	- 1169994	
Inflation L1. L2.	.0336199 .0260464	.076848 .0746582	0.44 0.35	0.662 0.727	- 1169994 - 120281	.184239
L1. L2. L3.	.0260464 .2409942	.0746582 .0796952	0.35 3.02	0.727 0.002	120281 .0847944	.184239 .172373 .397193
L1. L2.	.0260464	.0746582	0.35	0.727	120281	.184239 .172373 .397193
L1. L2. L3. L4. UIBEL	.0260464 .2409942 0329111	.0746582 .0796952 .0822938	0.35 3.02 -0.40	0.727 0.002 0.689	120281 .0847944 1942041	.184239 .172373 .397193 .128381
L1. L2. L3. L4.	.0260464 .2409942	.0746582 .0796952	0.35 3.02	0.727 0.002	120281 .0847944	.184239 .172373 .397193 .128381
L1. L2. L3. L4. UIBEL L1. L2.	.0260464 .2409942 0329111 002032 0062693 .0070854	.0746582 .0796952 .0822938 .0069012 .0069891	0.35 3.02 -0.40 -0.29 -0.90 1.01	0.727 0.002 0.689 0.768 0.370 0.313	120281 .0847944 1942041 0155582 0199677 0066923	.184239 .172373 .397193 .128381 .011494 .00742
L1. L2. L3. L4. UIBEL L1. L2.	.0260464 .2409942 0329111 002032 0062693	.0746582 .0796952 .0822938 .0069012 .0069891	0.35 3.02 -0.40 -0.29 -0.90	0.727 0.002 0.689 0.768 0.370	120281 .0847944 1942041 0155582 0199677	.184239 .172373 .397193 .128381 .011494 .00742
L1. L2. L3. L4. UIBEL L1. L2.	.0260464 .2409942 0329111 002032 0062693 .0070854	.0746582 .0796952 .0822938 .0069012 .0069891	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14	0.727 0.002 0.689 0.768 0.370 0.313	120281 .0847944 1942041 0155582 0199677 0066923	.184239 .172373 .397193 .128381 .011494 .00742 .02086
L1. L2. L3. L4. UIBEL L1. L2. L3. L4.	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379	.0746582 .0796952 .0822938 .0069012 .0069891 .0070296	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14	0.727 0.002 0.689 0.768 0.370 0.313 0.892	120281 .0847944 1942041 0155582 0199677 0066923 0125662	.184235 .172373 .397193 .128381 .011494 .00742 .02086 .014441
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGER _cons	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379	.0746582 .0796952 .0822938 .0069012 .0069891 .0070296 .0068899	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14	0.727 0.002 0.689 0.768 0.370 0.313 0.892	120281 .0847944 1942041 0155582 0199677 0066923 0125662	.184235 .172373 .397193 .128381 .011494 .00742 .02086 .014441
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGER _cons	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557	.0746582 .0796952 .0822938 .0069012 .0069891 .0070296 .0068899 .0258672 .0871785	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53	0.727 0.002 0.689 0.768 0.370 0.313 0.892 0.011	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224	.184235 .172373 .39719 .128383 .011494 .00744 .02086 .014441
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGERcons	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557	.0746582 .0796952 .0822938 .0069012 .0069891 .0070296 .0068899	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14	0.727 0.002 0.689 0.768 0.370 0.313 0.892	120281 .0847944 1942041 0155582 0199677 0066923 0125662	.184235 .172373 .397193 .128381 .011494 .00742 .02086 .014441 .116871 .037911
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGERcons JIBEL UIGER L1. L2. L3. L4. L3. L4.	.0260464 .240942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557	.0746582 .0796952 .0822938 .0069012 .0069891 .0070296 .0068899 .0258672 .0871785	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53	0.727 0.002 0.689 0.768 0.313 0.892 0.011 0.127	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224	.184235 .172373 .397193 .128381 .011494 .00742 .014443 .116871 .037913
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGER _cons	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557	.0746582 .0796952 .0822938 .0822938 .0069891 .0070296 .0068899 .0258672 .0871785	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53	0.727 0.002 0.689 0.768 0.370 0.313 0.892 0.011 0.127	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224	.184235 .172373 .397193 .128381 .011494 .00742 .014443 .116871 .037913
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGER _cons UXBEL dUnemploymentrate L1. L2. L3. L4. dLTGBY10Y	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557 6603161 2183274 3.204834 -1.277132	.0746582 .0796952 .0822938 .0069012 .0069012 .0068891 .0070296 .0068899 .0258672 .0871785	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53 -0.36 -0.11 1.60 -0.71	0.727 0.002 0.689 0.768 0.370 0.313 0.892 0.011 0.127	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.220184 -4.14565 7125286 -4.822243	.18423 .172373 .397193 .128381 .011494 .00742 .02086 .014441 .116871 .037911
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGER Cons UIGER L1. L2. L3. L4. L4. UIGER L4. L4. L4. L4. L4. UIGER L4. L4.	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557 6603161 2183274 3.204634 -1.277132	. 0746582 . 0796952 . 0822938 . 0069012 . 0069891 . 0070296 . 0068899 . 0258672 . 0871785 1.816293 2.003773 1.998691 1.808763	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53	0.727 0.002 0.689 0.768 0.370 0.313 0.892 0.011 0.127	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.220184 -4.14565 7125286 -4.822243	.18423 .17237 .39719 .12838 .01149 .0206 .01444 .116877 .037911 2.8995 3.70899 7.12215 2.26797
UIBEL UIGER _cons UIBEL UIGER _cons UIBEL dunemploymentrate L1. L2. L3. L4. dLTGBY10Y L1. L2. dLTGBY10Y	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557 6603161 2183274 3.204634 -1.277132	.0746582 .0796952 .0822938 .0069012 .0069091 .0070296 .0068899 .0258672 .0871785 .003773 1.998691 1.808763	0.35 3.02 -0.40 -0.29 -0.90 1.01 2.56 -1.53 -0.36 -0.11 1.60 -0.71	0.727 0.002 0.689 0.768 0.370 0.313 0.892 0.011 0.127 0.716 0.913 0.109 0.480	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.220184 -4.14565 7125286 -4.822243	.184235 .172373 .397193 .128381 .011494 .00742 .02086 .0144431 .1168731 .037911 2.89955 3.70895 7.12215 2.26797
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGER _cons UXBEL dUnemploymentrate L1. L2. L3. L4. dLTGBY10Y L1. L2. L3. L4.	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557 6603161 2183274 3.204834 -1.2777132	.0746582 .0796952 .0822938 .0069012 .0069012 .0060891 .0070296 .0068899 .0258672 .0871785 1.816293 2.003773 1.998691 1.809763	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53 -0.36 -0.11 1.60 -0.71	0.727 0.002 0.689 0.768 0.370 0.313 0.892 0.011 0.127	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.220184 -4.14565 7125286 -4.822243	.184235 .172373 .397193 .128381 .011494 .00742 .02086 .0144431 .1168731 .037911 2.89955 3.70895 7.12215 2.26797
L1.	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557 6603161 2183274 3.204634 -1.277132	.0746582 .0796952 .0822938 .0069012 .0069012 .0060891 .0070296 .0068899 .0258672 .0871785 .0258672 .0871773 1.998691 1.808763 1.501521 1.595029 1.628087 1.608921	0.35 3.02 -0.40 -0.29 -0.90 1.01 2.56 -1.53 -0.36 -0.11 1.60 -0.71	0.727 0.002 0.689 0.768 0.370 0.313 0.892 0.011 0.127 0.716 0.913 0.109 0.480	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.220184 -4.14565 7125286 -4.822243	.184235 .172373 .397193 .128381 .011494 .00742 .02086 .0144431 .1168731 .037911 2.89955 3.70895 7.12215 2.26797
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGERcons UIBEL dUnemploymentrate L1. L2. L3. L4. dLTGBY10Y L1. L2. L3. L4. Inflation L1.	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557 6603161 2183274 3.204634 -1.277132 .289098 -3.49645 .8552085 3.291246	. 0746582 . 0796952 . 0822938 . 0969912 . 0069891 . 0070296 . 0068899 . 0258672 . 0871785 . 0871785 . 1.816293 2.003773 1.998691 1.808763 . 0259629 1.501521 1.595029 1.628087 1.6208087	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53 -0.36 -0.11 1.60 -0.71	0.727 0.002 0.689 0.768 0.313 0.892 0.011 0.127 0.716 0.913 0.109 0.480 0.847 0.028 0.599 0.041	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.220184 -4.14565 7125286 -4.822243 -2.653828 -6.622649 -2.335784 .1378194	.184235 .172373 .397193 .128381 .011494 .00704 .02086 .0144431 .11637931 2.89955 3.70895 7.12215 2.26797 3.23202 -370225 4.046226 6.44467
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGER _cons UTBEL dUnemploymentrate L1. L2. L3. L4. dLTGBY10Y L1. L2. L3. L4.	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .6661728 1329557 6603161 2183274 3.204834 -1.2777132 .289098 -3.49645 .8552085 3.291246	.0746582 .0796952 .0822938 .0069012 .0069012 .0060891 .0070296 .0068899 .0258672 .0871785 .0258672 .0871773 1.998691 1.808763 1.501521 1.595029 1.628087 1.608921	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53 -0.36 -0.11 1.60 -0.71 0.19 0.53 2.05	0.727 0.002 0.689 0.768 0.313 0.892 0.011 0.127 0.716 0.913 0.109 0.480 0.847 0.628 0.599 0.041	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.220184 -4.14565 7125286 -4.822243 -2.653828 -6.622649 -2.335784 .1378194	.184236 .172373 .397193 .128381 .011494 .007422 .02086 .014443 .1168771 .037911 .370829 .7.12212 .2.6797 .3.23202 .370225 .4.046226 .6.44467
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGER _cons UIGER dUnemploymentrate L1. L2. L3. L4. dLTGBY10Y L1. L2. L3. L4. Inflation L1. L2. L3. L4.	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557 6603161 2183274 3.204834 -1.2777132 .289098 -3.49645 .8552085 3.291246	.0746582 .0796952 .0822938 .0069012 .0069891 .0070296 .0068899 .0258672 .0871785 .0871785 .1.816293 2.003773 1.998691 1.505521 1.595629 1.628087 1.628087 1.628087 1.628087 1.628087 1.6280821	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53 -0.36 -0.11 1.60 -0.71 -0.53 2.55 -0.44	0.727 0.002 0.689 0.768 0.313 0.892 0.011 0.127 0.716 0.913 0.109 0.489 0.489 0.599 0.028	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.220184 -4.14565 7125286 -4.822243 -2.653828 -6.622649 -2.335784 .1378194	.184235 .172373 .397193 .128381 .011494 .00704 .02086 .0144431 .116873 .037931 2.89955 3.70895 7.12215 2.26797 3.23202 -370253 4.04626 6.44467
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGER _cons UIBEL dUnemploymentrate L1. L2. L3. L4. dLTGBY10Y L1. L2. L3. L4. Inflation L1. L2. L3. L4.	. 0260464 . 2409942 0329111 002032 0062693 . 0070854 . 0009379 . 0661728 1329557 6603161 2183274 3. 204634 -1. 277132 . 289098 -3. 49645 3. 291246	. 0746582 . 0896952 . 0822938 . 0969912 . 0969891 . 0970296 . 0968899 . 0258672 . 0871785 . 0871785 . 1.816293 2.003773 1.998691 1.808763 1.501521 1.595629 1.628087 1.620887 1.620887	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53 -0.36 -0.11 1.60 -0.71 0.19 -2.19 0.53 2.05	0.727 0.002 0.689 0.768 0.313 0.892 0.011 0.127 0.716 0.913 0.109 0.480 0.847 0.028 0.599 0.041	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.14565 7125286 -4.822243 -2.653828 -6.622649 -2.335784 .1378194	.184235 .172373 .397193 .128381 .011494 .00704 .02086 .0144431 .116873 .037931 2.89955 3.70895 7.12215 2.26797 3.23202 -370253 4.04626 6.44467
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGERcons UIGERcons UIBEL dUnemploymentrate L1. L2. L3. L4. dLTGBY10Y L1. L2. L3. L4. Inflation L1. L2. L3. L4. UIGER L4. UIBEL L1. L2. L3. L4.	. 0260464 . 2409942 0329111 002032 0062693 . 0070854 . 0009379 . 0661728 1329557 6603161 2183274 3. 204834 -1. 277132 . 289098 -3. 49645 3. 291246 2122853 1. 121084 1. 734477 4879542	.0746582 .0892938 .0969912 .0069012 .0069891 .0070296 .0068899 .0258672 .0871785 .003773 1.998691 1.808763 1.501521 1.595629 1.626087 1.620887 1.620887 1.620887	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53 -0.36 -0.11 1.60 -0.71 0.19 -2.19 0.53 2.05	0.727 0.002 0.689 0.768 0.313 0.892 0.011 0.127 0.716 0.913 0.109 0.480 0.847 0.028 0.599 0.041 0.796 0.160 0.042	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.14565 7125286 -4.822243 -2.653828 -6.622649 -2.335784 .1378194 -1.82183 -4425968 .0652991 -2.211559	.184235 .172373 .397193 .128381 .011494 .00704 .02086 .014441 .116871 .037911 2.89955 3.70895 7.12215 2.26797 3.23202 -3702251 4.04626 6.44467
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGERcons UIBEL dUnemploymentrate L1. L2. L3. L4. dLTGBY10Y L1. L2. L3. L4. UIFlation L1. L2. L3. L4. UIFlation L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIBEL L1. L2. L3. L4.	.0260464 .2409942 0329111 002032 0062693 .0070854 .0009379 .0661728 1329557 6603161 2183274 3.204834 -1.277132 .289098 -3.49645 .8552085 3.291246 1212853 1.121084 1.734477 4879542	.0746582 .0796952 .0822938 .0069891 .0060891 .0070296 .0068899 .0258672 .0871785 .1.816293 2.003773 1.990691 1.501521 1.595029 1.628087 1.628087 1.628087 1.628087 1.628087 1.639321	0.35 3.02 -0.40 -0.29 -0.90 1.0.14 2.56 -1.53 -0.36 -0.11 1.60 -0.71 -2.19 0.53 2.05 2.05 -1.41 2.04 -0.35	0.727 0.002 0.689 0.768 0.313 0.892 0.011 0.127 0.716 0.913 0.108 0.480 0.480 0.480 0.480 0.490 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.220184 -4.14565 7125286 -4.82243 -2.653828 -6.622649 -2.335784 .1378194 -1.82183 4425968 .0652991 -2.211559	.184239 .172373 .397193 .128381 .011494 .00742 .02086 .014441 .116871 .037911 2.89955 3.70899 7.12219 2.26797 3.23202 370251 4.04626 6.44467 1.3972 2.68476 3.40365 1.23565
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGERcons UIBEL dUnemploymentrate dunemploymentrate L1. L2. L3. L4. dLTGBY10Y L1. L2. L3. L4. Inflation L1. L2. L3. L4. UIGER L4. UIGER L5. L6. L6. L7. L8. L8. L8. L8. L8. L8. L8. L8. L8. L8	. 0260464 . 2409942 0329111 002032 0062693 . 0070854 . 0009379 . 0661728 1329557 6603161 2183274 3. 204834 -1. 277132 . 289098 -3. 49645 3. 291246 2122853 1. 121084 1. 734477 4879542	.0746582 .0892938 .0969912 .0069012 .0069891 .0070296 .0068899 .0258672 .0871785 .003773 1.998691 1.808763 1.501521 1.595629 1.626087 1.620887 1.620887 1.620887	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53 -0.36 -0.11 1.60 -0.71 0.19 -2.19 0.53 2.05	0.727 0.002 0.689 0.768 0.313 0.892 0.011 0.127 0.716 0.913 0.109 0.480 0.847 0.028 0.599 0.041 0.796 0.160 0.042	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.14565 7125286 -4.822243 -2.653828 -6.622649 -2.335784 .1378194 -1.82183 -4425968 .0652991 -2.211559	.184239 .172373 .397193 .128381 .011494 .09742 .02086 .0144441 .116671 .037911 2.89955 3.708399 7.12219 2.26797 3.23202 -370251 4.04620 6.44467 1.3972 2.68476 3.40365 1.23565
L1. L2. L3. L4. UIBEL L1. L2. L3. L4. UIGERcons UIBEL dUnemploymentrate L1. L2. L3. L4. dLTGBY10Y L1. L2. L3. L4. Inflation L1. L2. L3. L4. UIGER L1. L2. L3. L4. UIGER L1. L2. L3. L4. UIBEL L1. L2. L3. L4.		. 0746582 . 089952 . 0892938 . 0969912 . 0969891 . 0970296 . 0968899 . 0258672 . 0871785 . 0871785 . 1.816293 2.003773 1.998691 1.808763 1.501521 1.595629 1.626887 1.626887 1.626887 1.6368921	0.35 3.02 -0.40 -0.29 -0.90 1.01 0.14 2.56 -1.53 -0.36 -0.11 1.60 -0.71 0.19 -2.19 0.53 2.05 -0.55	0.727 0.002 0.002 0.689 0.768 0.313 0.892 0.011 0.127 0.716 0.913 0.109 0.480 0.847 0.028 0.599 0.041 0.796 0.160 0.042	120281 .0847944 1942041 0155582 0199677 0066923 0125662 .0154741 3038224 -4.14565 7125286 -4.822243 -2.653828 -6.622649 -2.335784 .1378194 -1.82183 -4425968 .0652991 -2.211559 .092899 .0593915	. 184239 .172373 .397193 .128381 .011494 .002742 .02086 .014441 .116871 .037911 .2.89955 3.70899 7.12219 2.26797 .12219 2.26797 .12219 2.26797 .3.23202 .370251 4.046220 6.44467 .3.49365 1.23565 .352157 .251152 .187466

VAR 2. Belgium – VAR model with 4 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• BULGARIA

Sample: 2008m5 thru Log likelihood = FPE = Det(Sigma_ml) = Equation	1.95e-09 7.38e-10	.MSE R—sq	Numi AIC HQI SBI Ch:	c	obs = = = = = = = = = = = = = = = = = = =	176 -5.871271 -5.250224 -4.340071
dUnemploymentr~e dLTGBY10Y Inflation UIBUL BGNEUR	17 21 17 29 17 45 17 4	.0264 0.3128 .0335 0.1986 .0285 0.3215 .5276 0.3890 .0288 0.1112	80.1: 43.6: 83.4(112.6) 22.0:	1836 2154 0497 0759	0.0000 0.0002 0.0000 0.0000 0.1428	
	Coefficient	Std. err.	z	P≻ z	[95%	conf. interval]
dUnemploymentrate dUnemploymentrate L1.	.4833689	.0743613	6.50	0.00	.3376	
L2. L3.	0205748 .1860891	0821419 075434	-0.25 2.47	0.80	2 — 18 1 0382	
dLTGBY10Y L1. L2. L3.	0270077 0690376 0157173	.0529787 .0528534 .0622278	-0.51 -1.31 -0.25	0.616 0.19 0.80	L1726	283 .0345531
Inflation L1.	0234418	.0347778	-0.67	0.500	0916	051 .044721 4
L2. L3. UIBUL	.0087139 0062783	.0360796 .0341765	0.24 -0.18	0.809 0.85		
L1. L2. L3.	.0028319 0028482 .0000196	.0035021 .0034406 .0034699	0.81 -0.83 0.01	0 419 0 409	0095	915 .0038952
BGNEUR L1.	66.65975	54.80312	1.22	0.22	1 -40.75	239 174.0719
L2. L3. UIGER	14.24793 -40.22567 0130743	54.97068 55.14469 0161951	0.26 -0.73 0.81	0 799 0 460	-148.3	073 67.85593
_cons	_20.86136	48.04751	-0.43	0.66	-115.0	
dUnemploymentrate L1. L2.	.1081089 .0454764	.1026789 .1134226	1.05 0.40	0.29 0.68	1768	381 .3093559 278 .2677806
L3. dLTGBY10Y L1.	2728378	.0731537	-2.62	0.00		
L2. L3.	.0960114 .0853253	.0729806	1 32 6 99	9.18	30470	279 2390507 845 253735
Inflation L1. L2.	0392608 .1145938	.0480216 .0498191	-0.82 2.30	0.414	. 0169	502 .2122374
L3. UIBUL L1.	.0711843	.0471913	-0.36	0.71		
L2. L3.	0044701 .0077737	.0047508 .0047913	1.62	0 34 0 10	0137	815 .0048412
BGNEUR L1. L2.	-56.43269 -35.97682 21.38255	75.67281 75.90418 76.14446	-0.75 -0.47 0.28	0 45 0 63 0 77	-184.7	487 91.88329 463 112.7926 578 170.6229
L3. UIGER cons	0359895 36 13521	0223625 66 34459	0.28 1.61 0.54	0.10	30078	481 8799191
Inflation dUnemploymentrate						
L1. L2. L3.	.0825222 0472867 .1457578	.1601553 .1769129 .1624656	0.52 -0.27 0.90	0.600 0.789 0.370	3940	296 .2994562
dLTGBY10Y L1. L2.	1620101 .2103486	.1141027 .1138327	-1.42 1.85	9 15 9 96	- 0127	473 .0616271 595 .4334566
L3. Inflation	0635249 .3002089	.1340229	-0.47	0.63	3262	049 .1991552
L1. L2. L3.	.0118638	.0749026 .0777062 .0736075	4.01 0.15 1.82	0 879	1404	376 .1641651
UIBUL L1. L2.	0164468 .0003601 .0141606	.0075427 .0074101 .0074734	-2.18 0.05 1.89	0 029 0 96	L0141	635 .0148836
L3. BGNEUR L1.	-116 4768	118 032	-0.99	0.32		
L2. L3.	171.5952 55.65868	118.3929 118.7677	1.45 0.47	0.63	7 –60.45 9 –177.1	217 288.439
UIGER _cons	.0974747 -56.93767	.0348802 103.4821	2.79 -0.55	0.00		
dUnemploymentrate L1. L2.	-1.336283 -1.320039	1.601219 1.76876	-0.83 -0.75 -0.57	0.40 0.45	-4.786	745 2.146666
L3. dLTGBY10Y	9182443	1.624317		0.57	2 -4.101	848 2.265359
L1. L2. L3.	1.340429 .3440114 1.456973	1.140789 1.13809 1.339949	1.18 0.30 1.09	0 246 0 76 0 27	2 -1.886	604 2.574627
Inflation L1. L2.	1.580523 6526327 2642398	7488693 7768999	2.11 0.84	0 03: 0 40: 0 72:	L - 8700	631 2.175329
L3. UIBUL L1.	.0984676	.7359211	0.36	0.72		
L2. L3.	.2354254	0740856 074718	3 18	0 00	. 0902	203 .3806305
BGNEUR L1. L2. L3.	1087.281 1585.898 -420.7244	1180.074 1183.682 1187.429	0.92 1.34 -0.35	0 35 0 18 0 72	-734 0	762 3905.872
UIGER _cons	-420 /244 05192 -1149 206	3487296 1034.606	0.15 -1.11	9 883 9 263	6315	775 .7354175
BGNEUR dUnemploymentrate	000118				70003	
L1. L2. L3.	000118 0000644 .0000154	.0001019 .0001126 .0001034	-1.16 -0.57 0.15	0 24: 0 56: 0 88:	000	285 .0001562
dLTGBY10Y L1. L2. L3.	.0000569 0000656 .0001382	.0000726 .0000724 .0000853	0.78 -0.91 1.62	0.43 0.36	0002	076 .0000763
Inflation L1.	0000903	.0000477	-1.89	0.05		837 3.12e-06
L2. L3.	.000015	0000494 0000468	0.30 -1.61	0.76	0000	819 .0001119
UIBUL L1. L2. L3.	.0000117 -2.15e-06 2.70e-07	4.80e-06 4.72e-06 4.76e-06	2.43 -0.46 0.06	0 01: 0 64: 0 95:	0000	114 7.09e-06
BGNEUR L1.	.0676319	.0751045	0.90	0.36	30795	
L2. L3. UIGER	0927706 .0316862	.0753342 .0755726 .0000222	-1.23 0.42 -0.16	0 218 0 678	1164	335 .1798058
_cons	-3.52e-06 .5080639	.0658464	7 72	0 000		

VAR 3. Bulgaria – VAR model with 3 lags for unemployment rate, inflation, long term government bond 10 years, the country's currency over euro (BGN/EUR) and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

CROATIA

Vector autoregress Sample: 2008m7 thr Log likelihood = FPE = Det(Sigma_ml) = Equation	2022m11 464.5775 1.54e-08 3.20e-09	RMSE	R=sq	ch:		P=chi2		173 -3.810144 -2.811869 -1.349483	
dUenmploymentr~e dLTGBY10Y Inflation uICRO dHRKEUR	27 27 27 27 27	.1997 .27527 .428363 4.53151	0.6178 0.1911 0.3988 0.3635 0.1763	279.0 40.8 114. 98.7 37.0	5458 3122 7619	0.0000 0.0319 0.0000 0.0000			
dHRKEUR	27	.000837	9.1763	37.6	3679	0.0743	-		
dUenmploymentrate	Coeffici		. err.	×	P> z			conf. interva	
dUenmploymentrate dUenmploymentrate L1. L2. L3. L4. L5.	- 88093; 1890; 24985; - 10425; -01134;		59831 16051 22003 55055 78442	11.59 -1.86 -2.44 0.99 0.15	0.006 0.063 0.014 0.323		7320: 3881: 4501: 1025: 1412:		74
dLTGBY10Y L2. L3. L4. L5.	-06170: -00188- -04593: -06526: -05895:	12 05 49 05 06 05 19 05	42897 54823 65632 60478 65956	1.14 0.03 -0.81 1.16 1.04	0.250 0.973 0.417 0.244		04476 10685 15675 04456	047 .16810 583 .11062 925 .06493 897 .17511 654 .16988	72 81 13 36 53
Inflation L1. L2. L3. L4. L5.	-03247 -0146 0275 00313	99 03 17 03 56 03 34 03 54 03	60997 92365 89644 88238 60503	0.90 0.37 -0.71 -0.08 2.06	0.368 0.769 0.479 0.936	==	0382 .062 1039 0792	743	34 91 29 99
UICRO L1. L2. L3. L4.	0019 00465 00103 00381	95 00 37 0 19 00 44 00	32528 03217 31005 30409 29876	-0.59 -1.45 0.33 -1.25	0.556 0.148 0.739 0.216		00828 0109 0056 0097	804 -00447 959 -00165 945 -00716 744 -00214 837 -00087	05 15 89 56 43
dHRKEUR L1. L2. L3. L4. L5.	11.72: -4.3778: -6.737: -51.532: -16.443	21 1 73 18. 99 18. 96 18. 47 18.	8.223 19644 30036 28799 57154	0 - 64 -0 - 24 -0 - 37 -2 - 82 -0 - 89	0.526 0.816 0.713 0.005	-2 -4 -4 -8	3 994 0 042 2 606 7 37	432 47.438 223 31.286 584 29.130 586 —15.688 381 19.956	52 49 66 26
UIGER _cons	0025B		50708 64949	-0.17 1.59	0.564 0.112		0321 0210		
dLTGBY10Y dUenmploymentrate L1. L2. L2. L4. L5.	08584 -17926 16816 00846 03512	51 .10 79 .14 42 .14 43 .14	47368 00546 08751 54311 73022	-0.82 1.28 -1.19 -0.06 0.33	0.412 0.203 0.233 0.954		2911; 0952; 4442; 293; 1751;	254 11943 341 453 743 1079 504 27657 786 24543	52 77 46 54
dLTGBY10Y L1. L2. L3. L4. L5.	03915 .03969 .09599 .07397 17380	55 07 97 07 35 0	48342 64779 77968 72575 80126	-0.52 6.52 1.23 6.96	0.604 0.604 0.218 0.338	= <u>:</u>	1858; 1101; - 056; - 07;	277 -10751 943 -18959 821 -24880	68 37 79 38
Inflation L1. L2. L3. L4. L5.	-0053 02640 -09492 -05498 14038		97606 40844 37094 35156 96925	0 - 11 -0 - 49 1 - 77 1 - 03 -2 - 83	0.914 0.625 0.077 0.304		09; 13240 01034 04990 23771		
UICRO L1. L2. L3. L4.	- 00055 - 00291 - 00072 - 0001 - 00103		44838 44344 42738 41916 41182	-0.12 0.66 0.17 0.04 0.25	0.902 0.512 0.865 0.966		00933 00576 0056 00803		
AMBKEUD	-35.159 -41.099 3.3178 29.627 -14.729			-1.40 -1.64 0.13 1.18	0.162 0.103 0.895 0.246		4 20	14 873	
L1. L2. L3. L4. L5.			11897 08236 22561 20856 -5994				0 266 6 123 9 786 4 903		
cons Inflation	- 05085 - 25866		07739 78738	2.45	0.001		41129		
L1. L2. L3. L4. L5.	- 11980 - 49370 - 59474 - 42218 - 10266		29866 79467 92235 63133 69788	-0.74 2.27 -2.71 1.87 -0.61	0.462 0.023 0.062 0.063		43925 0665 0244 02138 4299		28 08 18 05 97
11. L2. L3. L4. L5.	-27100 12661 -10841 06021		64535 90115 13303 02246 13997	2.33 -1.06 0.89 0.50 -1.24	0.026 0.287 0.372 0.616 0.217	=======================================	04276 3598 12938 1754 38788	609	04 56 73 04 83
L1. L2. L3. L4.	-50960 03505 -04803 12989		74352 41637 35802 32786 73293	6.58 -0.42 0.57 -1.56 -0.58	0.000 0.675 0.565 0.119		35783 20000 11573 29313 19643	778 .10664	75
UICRO L1. L2. L3. L4. L5.	-00374 00361 00459: 00554	34 .00	69775 69006 66508 65228 64086	0.54 -0.52 -0.69 0.85 -0.59	0.592 0.606 0.496 0.395 0.554		00993 01714 01763 00723		
UIGER	-1.0973 23.482 -61.138 -41.099 -3.1482 -0704		08901 03204 25496 22842 83664 23274 11837	-0.03 0.60 -1.56 -1.05 -0.08	0.978 0.547 0.115 0.295 0.937		7.716 3.016 38.05 17.96 1.226		
UICRO dUenmploymentrate				-1.40	0.162				
L2. L3. L4.	49857 2-5787 -5.516 5-2241 -1.7809	39 2.3 58 2. 32 2.3 71 1.7	24179 05583 31909 94091 66411	-0.29 1.12 -2.38 2.18 -1.01	0.772 0.263 0.017 0.029 0.313	-1 -1	8775 940 0 06 53186 2436	121 7.0975 19197124 905 9.9164 973 1.6811	99 75 63 31
alideviev L1. L2. L3. L4. L5.	1.5316: -2.7492: 77126: -1.7221: 1.0336:		31922 58982 83511 71815 84246	1.24 -2.18 -0.60 -1.35 0.80	0.214 0.029 0.548 0.176 0.423		216; -3.28 -2149 -4839		
L1. L2. L3. L4. L5.	2.0689 -1.50 1.6883 -1.1998 1.4493	29 .	91605 03388 41658 09752 81804	2.53 -1.69 1.91 -1.36 1.77	0.012 0.091 0.050 0.050		46345 .2526 04466 .9265		67 32 64 61 58
L1. L2. L3. L4. L5.	-13910 -00077 -08658 01914 -29636		38122 29991 03562 90023 77943	1.88 0.01 1.23 -0.28 4.37	0.059 0.992 0.218 0.783		005! 14236 05126 15438 16349		65 62 54 24
L1. L2. L3. L4. L5.	360-94 -1032-6 -224-64 -114-96 108-13: -70817:		.5092 .9065 .2646 4.984 .4181	0.87 -2.50 -0.54 -0.28 0.26	0.383 0.013 0.589 0.782 0.797		49.5: 841.8 938.2: 17.8: 93796		
cons dHRKEUR dUenmploymentrate	· · · · · · · · · · · · · · · · · · ·		19804 28196		0.038				07
L1. L2. L3. L4.	00001 00023 00033 0007		03184 04257 04282 04421 03262	-0.04 -0.55 0.79 -1.59 -0.14	0.969 0.583 0.433 0.112		00063 00106 00056 00156		92 68
dLTGBY10Y L2: L3: L3: L5: Inflation	-3.91e 0003 00010 00014 0005		02275 02325 00237 02349 02371	-0.02 -0.13 -0.46 0.61 -2.45	0.986 0.897 0.646 0.542		00044 00048 0005 0005		72
L1. L2. L3. L4. L5.	-1.35e- .00024 0004 .00028 00019		01513 01644 01633 01627 01511	-0.01 1.50 -0.30 1.75 -1.30	0-993 0-133 0-763 0-086		00029 0003 0003 0004		
L1. L2. L3. L4. L5.	00002 -00001 -6-98e -7-33e		00136 00135 00013 000127 00125	-2.14 0.92 -0.54 -0.58 -0.94	0.032 0.357 0.593 0.565		0000 0000 0000 0000		06 88 85 76 27
DIGER	19625; 10311; 12159; 18351; 02841;		63584 62471 66826 66307 78188	-2.57 -1.35 -1.59 -2.39 -0.37	0.016 0.176 0.113 0.017		3455 25255 27185 33376 18093		73 73 03
UIGER _cons	- 00007	31 .00	00631 02367	-0.52	0.265	<u> </u>	0005	534 .00019 871 .00034	09

VAR 4. Croatia – VAR model with 5 lags for unemployment rate, inflation, long term government bond 10 years, the country's currency over euro (HRK/EUR) and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

CYPRUS

Sample: 2008m5	th	ru 2022m12			Number o	fobs	=	176
Log likelihood	=	-959.3347			AIC		=	11.27653
FPE	=	15.85347			HQIC		=	11.51764
Det(Sigma_ml)	=	10.89059			SBIC		=	11.871
Equation		Parms	RMSE	R-sq	chi2	P>chi2		
dUnemploymentr~	e	11	302946	0.2468	57.68498	0.0000		
Inflation		11	.828117	0.1864	40.32574	0.0000		
UICYP		11	14.9005	0.3301	86.70705	0.0000		

	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
dUnemploymentrate						
dUnemploymentrate						
L1.	.4452671	.0766663	5.81	0.000	.2950039	.5955304
L2.	.0363797	.0832142	0.44	0.662	- 1267172	.1994766
L3.	0048241	.0756865	-0.06	0.949	153167	.1435187
Inflation						
L1.	0072599	0267951	-0.27	0.786	0597773	.0452574
L2.	0188318	0278036	-0.68	0.498	- 0733259	.0356622
L3.	0017157	.0271209	-0.06	0.950	0548717	.0514404
UICYP						
L1.	.0020831	.001489	1.40	0.162	0008352	.0050015
L2.	.0024071	0015156	1.59	0.112	- 0005634	.0053777
L3.	- 0037961	.0013130	-2.56	0.112	- 0067066	0008855
L3.	003/901	.001403	-2.50	0.011	000/000	0000003
UIGER	0177807	.0179925	-0.99	0.323	0530453	.0174839
_cons	.0729782	.0806366	0.91	0.365	0850666	.2310229
Inflation						
dUnemploymentrate						
L1.	0076986	.2095708	-0.04	0.971	4184499	.4030527
L2.	.0427922	.2274698	0.19	0.851	4030404	.4886249
L3.	.1381383	.2068925	0.67	0.504	2673634	.5436401
Inflation						
L1.	.2980419	.0732455	4.07	0.000	.1544834	.4416003
L2.	.1217385	.0760024	1.60	0.109	0272234	.2707005
L3.	2894107	.0741363	-3.90	0.000	4347151	1441063
UICYP						
L1.	000858	.0040702	-0.21	0.833	0088354	.0071194
L2.	.0019507	004143	0.47	0.638	0061694	.0100708
L3.	0047901	.0040593	-1.18	0.238	0127463	.003166
UIGER	.0929549	.0491832	1.89	0.059	0034424	.1893522
_cons	- 2100306	2204236	-0.95	0.341	- 6420529	2219917
UICYP						
dUnemploymentrate L1.	8418321	3.770853	-0.22	0.823	-8.232568	C E4000
L2.	6352881	4.092913	-0.22 -0.16	0.823	-8.657249	6.548903 7.386673
L3.	-6.555344	3 72266	-0.16	0.078	-13.85162	7409359
L3.	-0.555544	3.72200	-1.76	0.070	-13.03102	./409333
Inflation						
L1.	1.483124	1.317921	1.13	0.260	-1.099954	4.066203
L2.	5979531	1.367527	-0.44	0.662	-3.278257	2.082351
L3.	.8432176	1.333949	0.63	0.527	-1.771275	3.45771
UICYP						
L1.	.2458317	0732357	3.36	0.001	.1022924	.389371
L2.	.1435152	.0745459	1.93	0.054	0025921	.2896226
	.2731491	0730405	3.74	0.000	1299922	4163059
L3.	12/31491	.0730403	31,74		12233322	
L3. UIGER	.3743818	.8849642	0.42	0.672	-1.360116	2.10888

VAR 5. Cyprus – VAR model with 3 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• CZECH REPUBLIC

Vector autoregress. Sample: 2008m6 thro Log likelihood = FPE = Det(Sigma_ml) = Equation	2022m12 521.1865 6.30e-09 1.78e-09	1SE R-sq	Numi AIC HOIC SBIC	=		175 99275 92361 09981
dUnemploymentr~e dLTGBY10Y Inflation UICZ dCZKEUR	22 .222 22 .213 22 .516 22 4.13 22 .666	3885 0 3178 3671 0 2863 3175 0 2124	82.63 81.53 70.26 47.26 19.8	3147 0. 3696 0. 3669 0.	0000 0000 0000 0009 5293	
	Coefficient	Std. err.	×	P> z	[95% conf.	interval]
dUnemploymentrate dUnemploymentrate L1. L2. L3.	1992071 1051274 .4278889 .1232584	0754588 0695418 0686907 073268	-2.64 -1.51 6.23 1.68	0.008 0.131 0.000 0.093	3471036 2414267 .2932577 0203443	- 0513106 031172 5625202 2668611
dLTGBY10Y L1. L2. L3. L4.	.0537821 .0664059 0169701 0949605	.0789323 .0849113 .0903636 .0864553	0.68 6.78 -0.19 -1.10	0.496 0.434 0.851 0.272	1009224 1000172 1940794 2644098	2084866 2328289 1601392 0744889
Inflation L1. L2. L3. L4.	.0348141 003812 .0094293 0113695	.0325202 .0323327 .0353893 .0345618	1.07 -0.12 0.27	0.284 0.906 0.790 0.742	- 0289244 - 067183 - 0599324 - 0791095	0985526 059559 0787909
UICZ L1. L2. L3. L4.	- 0064322 0004724 0011076 005394	.0038621 .0039501 .0039318 .0039104	-1.67 0.12 0.28 1.38	0.096 0.905 0.778 0.168	0140019 0072698 0065986 0022702	.0011375 .0082145 .0088138 .0130582
dCZKEUR L1. L2.	-33.12863 -82.71334 -10.44405	27.25572 27.41575 28.56978	-1.22 -3.02 -0.37	0.224 0.003	-86.54886 -136.4472 -66.32219 -83.64315	20.2916 -28.97946
L3. L4. UIGER _cons	-10.44405 -29.52427 009717 .0257245	28 50978 27 61218 014915 0664525	-0.37 -1.07 -0.65 0.39	0.714 0.285 0.515 0.699	-66.32219 -83.64315 0389498 1045201	45 43409 24 5946 0195158 1559691
dLTGBY10Y dUnemploymentrate L1. L2. L3.	0265075 .0005405 0933366 .1081229	.0724133 .0667351 .0659183 .0703109	-0.37 6.01 -1.42	0.714 0.994 0.157 0.124	1684348 1302578 2225341 0296839	1154199 1313388 0358609 2459298
dLTGBY10Y L1. L2. L3. L4.	.3573507 3248159 .0159327 .1459602	0757466 0814842 0867165 082966	4.72 -3.99 0.18 1.76	0.000 0.000 0.854 0.079	.2088901 4845221 1540284 0166501	.5058112 1651098 1858939 3085706
Inflation L1. L2. L3. L4.	.0142589 .067578 .0134221 0160898	.0312077 .0310278 .0339609	0.46 2.18 0.40 -0.49	0.648 0.029 0.693 0.628	0469071 .0067646 0531401 0810957	0754249 1283913 0799844 0489162
UICZ L1. L2. L3. L4.	0054159 0025029 00883 	.0037063 .0037907 .0037731 .0037526	-1.46 -0.66 0.23 0.19	0.144 0.509 0.815 0.848	01268 0099326 0065122 0066334	-0018483 -0049268 -0082782 -0080763
dCZKEUR L1. L2. L3. L4.	-46.59976 -12.84653 -21.27612 -34.51742	26.15567 26.30924 27.35912 26.49774	-1.78 -0.49 -0.78 -1.30	0.075 0.625 0.437 0.193	-97.86393 -64.4117 -74.899 -86.45204	4.664423 38.71864 32.34677 17.4172
UIGER _cons	.0304352 1101564	014313 0637705	2.13	0.033 0.084	.0023822 2351443	.0584882
Inflation dUnemploymentrate L1. L2. L3.	- 1886879 - 1555046 - 0725123 - 013393	.1756019 .1618323 .1598517 .1705037	-1.07 -0.96 0.45 6.08	0.283 6.337 6.656 6.937	5328612 47269 2407912 3207881	1554855 1616809 3858158 3475741
dLTGBY10Y L1. L2. L3. L4.	.1604171 .188195 .5281328 1673983	1836852 197599 2102871 2011922	0.87 0.95 2.51 0.83	0.382 0.341 0.012 0.405	1995992 1990919 .1159776 5617278	5204334 5754818 9402879 2269312
Inflation L1. L2. L3. L4.	.0802874 .1240623 .0887841 1546737	.0756786 .0752423 .0823551 .0804296	1.06 1.65 1.08 -1.92	0.289 0.099 0.281 0.054	06804 0234098 0726291 3123129	.2286148 .2715345 .2501972 .0029655
UICZ L1. L2. L3. L4.	.0083246 0042365 .0078321 .0142347	.0089877 .0091925 .0091498 .0090999	0.93 -0.46 0.86 1.56	0.354 0.645 0.392 0.118	009291 0222534 0101012 0036008	.0259401 .0137804 .0257654 .0320702
dCZKEUR L1. L2. L3. L4. UIGER	-26.53055 -69.3215 -143.2098 -22.26294	63 42742 63 79982 66 34577 64 25693	-0.42 -1.09 -2.16 0.35	0.676 0.277 0.031 0.729	-150.846 -194.3669 -273.2451 -103.6783	97.7849 55.72386 -13.1745 148.2042
_cons	4208155	1546432	-2.72	0.007	7239107	- 1177204
dUnemploymentrate L1. L2. L3. L4.	2.336219 8177958 7937986 -2.987745	1.398851 1.289162 1.273384 1.358239	1.67 -0.63 -0.62 -2.20	0.095 0.526 0.533 0.028	4054784 -3.344507 -3.289586 -5.649844	5.077917 1.708915 1.701989
dLTGBY1@Y L1. L2. L3. L4. Inflation	1.991991 - 2004775 - 2427275 - 7417267	1.463243 1.574081 1.675155 1.602705	1.36 -0.13 -0.14 0.46	0.173 0.899 0.885 0.644	8759121 -3.285619 -3.525971 -2.399517	4.859894 2.884664 3.040516 3.88297
L1. L2. L3. L4.	.7358169 .8440529 .4294451 .0325129	.6028587 .5993828 .6560442 .6407055	1.22 1.41 0.65 0.05	0.222 0.159 0.513 0.960	4457645 3307159 8563778 -1.223247	1.917398 2.018822 1.715268 1.288273
L1. L2. L3. L4. dczkeur	.101073 111222 .1543721 2891136	0715962 0732277 0728877 0724903	1.41 -1.52 2.12 -3.99	0.158 0.129 0.034 0.000	- 0392531 - 2547456 - 0115149 - 431192	2413991 0323015 2972293 - 1470352
L1. L2. L3. L4. UIGER	-163.5636 679.0723 574.3747 1206.89	505.2652 508.2318 528.5128 511.8731	-0.32 1.34 1.09 2.36	0.746 0.182 0.277 0.018	-1153.865 -317.0436 -461.4915 203.637	826.7378 1675.188 1610.243 2210.143
dczkeur dunemploymentrate	7.20646	1.231894	5.85	0.000	4.791993	9.620928
L1. L2. L3. L4.	.0002125 0001377 0000314 8.11e-06	.0002114 .0001948 .0001924 .0002052	1.01 -0.71 -0.16 0.04	0.315 0.480 0.870 0.968	0002018 0005195 0004085 0003942	0006268 0002441 0003458 0004104
dLTGBY10Y L1. L2. L3. L4.	.0000923 .0003111 .0001227 .0002396	.0002211 .0002379 .0002531 .0002422	0.42 1.31 0.48 0.99	0.676 0.191 0.628 0.323	000341 0001551 0003735 0002351	.0005257 .0007773 .0006188 .0007143
Inflation L1. L2. L3. L4. UICZ	0000814 .0001126 .000337 0001454	.000911 .000996 .000991 .0009968	-0.89 1.24 6.34 -1.50	0.372 0.214 0.734 0.133	0002599 0000649 0001606 0003351	0000972 0002902 000228 0000444
UICZ L1. L2. L3. L4. dCZKEUR	-6.28e-06 -6.60e-06 -1.81e-06 0000137	0000108 000011 000011 000011	-0.58 -0.60 -0.16 -1.25	0.562 0.551 0.869 0.211	0000275 0000283 0000234 0000352	0000149 0000151 0000198 7 76e-06
UIGER	.0292569 1110931 1198025 .0270101	0763527 076801 0798658 0773513	0.38 -1.45 -1.50 0.35	0.702 0.148 0.134 0.727	1203917 2616203 2763365 1245956	1789055 0394341 0367315 1786158
_cons	.0000118	.0001862	0.06	0.950	0003531	.0003766

VAR 6. Czech Republic – VAR model with 4 lags for unemployment rate, inflation, long term government bond 10 years, the country's currency over euro (CZK/EUR) and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• **DENMARK**

/ector autoregression

Sample: 2008m6 Log likelihood FPE	th = =	-614 6883 -0301756			Number of AIC HQIC	obs	-	175 7.847867 8.376029
Det(Sigma_ml)	=	.0132137			SBIC		=	9.14995
Equation		Parms	RMSE	R-sq	chi2	P>chi2		
dUnemploymentr dLTGBY10Y	·e	18 18	.453702 .181812	0.2925 0.1882	72.35859 40.56444	0.0000		
Inflation UIDNK		18 18	405338 4.4575	0.1872 0.3916	40.29875 112.6519	0.0012		

L30221235 .0808297							
### Common Loyer France Common Loyer Common L		Coefficient	Std. err	z	P> z	[95% conf	interval]
Common C	dUnemploymentrate	l					
1.2. 2371118 .0877877 -2.76 0.687 -4.4908239 -1.0821259 .0860879 -0.33 0.753 -1.052682 .144034 .14	dUnemploymentrate		0753043	7 05		7204020	443003
L4- 0224295 -075514 -0.27 1608338 .1277712	L2.	2371118	.0877017	-2.70	0.007	4090039	0652197
1.1 1019022 .1099233 0.590 4020025 .2281344 .2210344 .221							1440145
L100190221393923 -0.53 0.59940200252781 L100020261393923 -0.53 0.7394020023221614 L430431111991211 -1.03 0.0677545814 .0229393 Inflation	di TGBV10V						
L3. 1.229336 1.909255 0.067 0.0672670726 1.312971 1.016141 1.025935	L1.						.278118
Inflation Li20215585 .0872374 0.20 0.7791454236 .108540 Li20440023 .027495 0.10 0.2791374215 .108540 Li30440023 .027495 0.10 0.2791374215 .108540 Li41017014 .0879918 1.10 0.2480707594 .274152 UDON Li10082607 .0977131 -0.33 0.7860377221 .012526 Li20026007 .0977131 -0.33 0.7860377221 .012526 Li400973225 .0975618 -0.97 0.3330221493 .007489 UJCER .2415783 .09771737 0.127 0.2410220202 .114620 UJCER .2415783 .0975618 -0.97 0.931228995 .246925 UJCER .2415783 .0382687 0.07 0.941228995 .246925 UJCER .2415784 .037766 0.00 0.95 0.066091 .970531 Li20217714 .037660 0.00 0.950 .066091 .070531 Li20217714 .037660 0.00 0.950 .066091 .070531 Li2018006 .0380897 0.06 0.08 0.066091 .070531 Li2018006 .0380897 0.08 0.08 0.086091 .070531 Li202174 .037690 0.00 0.08 0.086091 .070531 Li202174 .037690 0.00 0.08 0.086091 .070531 Li2018006 .0380897 0.00 0.08 0.086091 .070531 Li2001071 0.001071 0.001071 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000							.5129378
1.1	L4.	3643111	.1991211	-1.83	0.067	7545814	.0259592
1.2		0355505	0077774	0.20	0.770	1454336	1065401
UIDINK 1.1	L2.	.0140625	.0874985	0.16	0.872	- 1574315	1855565
1.1 008-762 .0075697 -1.08 0.281 0239005 .006641 .0220607 .0077151 -0.34 0.736 0.737 -0.177251 -0.35 0.737 -0.177251 -0.35 0.737 -0.177251 -0.35 0.737 -0.1645 .0137225 .0077497 -0.19 .0.371 -0.1645 .0137225 .0077497 -0.19 .0.371 -0.1645 .0137225 .0077497 -0.19 .0.2714 -0.292802 .1164297 .0.00 .0.00 .0.41 -0.222802 .1164297 .0.00 .0.00 .0.41 -0.228902 .1164297 .0.00 .0.00 .0.41 -0.228902 .1164297 .0.00							.1183337
1.1 008-762 .0075697 -1.08 0.281 0239005 .006641 .0220607 .0077151 -0.34 0.736 0.737 -0.177251 -0.35 0.737 -0.177251 -0.35 0.737 -0.177251 -0.35 0.737 -0.1645 .0137225 .0077497 -0.19 .0.371 -0.1645 .0137225 .0077497 -0.19 .0.371 -0.1645 .0137225 .0077497 -0.19 .0.2714 -0.292802 .1164297 .0.00 .0.00 .0.41 -0.222802 .1164297 .0.00 .0.00 .0.41 -0.228902 .1164297 .0.00 .0.00 .0.41 -0.228902 .1164297 .0.00	HTDNK						
L3.	L1.						.006948
UIGER COMBON .1213876 0.07 0.9410202892 .1164291 ditention di					0.736 0.871		.0125207
ditemplaymentrate Li. -0.0179368	L4.	0073225	.0075618	-0.97	0.333	0221434	.0074984
				1.17			.1164298
Description		.0090098	.1213876	0.07	0.941	2289055	.2469252
LI0172958 .09302097 .0-0.58 0.50207767499 .0410731 LI0021714 .0347866 0.06 0.52 0.6630672057 .0550690 LI0160006 .0505099 .0-06 0.5500660093 .0673202 .0673208 dLTGBY10V LI283408 .0777147 3.65 0.000 .1310001 .435721 LI223408 .0777147 3.65 0.000 .1310001 .435721 LI204358 .0777147 3.65 0.000 .3566676 .0557851 LI204358 .079794 -0.05 0.0561607514 .1520331 Inflation LI014776 .0340587 0.44 0.056607042 .660903 .1014012 .0114012 .0130204 .0330314 0.46 0.400062204 .004705 .0330314 0.46 0.400062204 .048376 .048776 .050903 .004706 .004706 .0030303 .0068 0.550 0.551 .0501 .0923441 .045876 .004704 .004701 .0030303 .004706 .004706 .0030303 .004706 .0030303 .004706 .0030303 .004706 .0030303 .004706 .0030303 .004706 .0030303 .004706 .0030303 .004706 .0030303 .004706 .0030303 .0030303 .004706 .0030303 .0030303 .004706 .0030303 .00304 .0004 .0030303 .0030303 .00303 .00300 .0000 .00000000	dLTGBY10Y dUnemploymentrate						
L300217140373966 0.66 0.95006600910703321053382053820538	L1.						.0416712
dLTGBY10Y							.0506093 .0703519
L1.				-0.46		0733892	.0453881
L22103266 .0798093 .2.03 0.000 .3557506 .257576 .2							
L4004358 .079794 -0.05 0.9561607514 .152035: Inflation L10014776 .0349587 0.04 0.9660670402 .069995. L201025 .035953 0.65 0.660670402 .069995. L201025 .035953 0.65 0.60049275 .0847481 L30021201 .0031536 0.70 0.4830033709 .085976: UIDNK L10022101 .0031536 0.70 0.4830033709 .0083971 L20057654 .0039917 -1.86 0.662011025 .000294: L30021454 .0031056 0.69 0.490003141 .001232. L40044091 .0030931 -1.50 0.466 -1.46 .0015301 .001336. UIGER .0227571 .0148967 1.53 0.12700644 .051595.		2103268		-2.63	0.008		0537858
Inflation 1.10014776							257203 1520355
1.			.0,3,34	0.05	0.550	.1007514	.1520555
L3.	L1.						.0699954
L40232337 .0352611 -0.66 0.5100923441 .045876: UIDNK L10022101 .0031536 0.70 0.4830039709 .008391: L20057654 .0030917 -1.86 0.602011025 .0002941 L30021454 .0031056 0.69 0.4900039410 .008232: L3004091 .003033 1.46 0.1460015301 .010346: UIGERcons1383698 .0486438 -2.84 0.0042337098043029: Inflation dUnemploymentrate L102776 .0673483 0.41 0.6801042403 .159760: L30362354 .0763529 0.39 0.6991232734 1.33664: L30377284 .0773524 0.39 0.6991232734 1.33664: L30377284 .0773538 0.89 0.627124685 1.195760: UICER286693 .1786632 -1.23 0.2195676937 .130381: L22186963 .1786632 -1.23 0.2195676937 .130381: L32677473 .1778933 1.62 0.1660612411 .6360951 Inflation L11309684 .077381 1.68 0.0930217874 .283724; L31417574 0.768632 -1.23 0.2195676937 .130381: L2125979 .0701714 -1.61 0.1672791921 0.27234; L31417574 0.76832 1.80 0.0720127505 .296265; L41673291 .0786121 -2.38 0.0173414060333252; UIDNK L10112022 .00770308 -1.59 0.1110249823 .0025776; L30022274 .0069327 1.32 0.7270127505 .2962664 .0093017786 .136669; UICER27221 .0332112 -2.38 0.017341406033252; UIDNK dUnemploymentrate L10022274 .006937 0.32 0.7470112623 .0025776; L3002269 .006928 1.18 0.2360573693 0.117666; UICER27221 .0332112 -2.09 0.028 .0077282 .137913; L31417574 .7688287 -0.19 0.851 -1.59102 .015736; L41304132 .740624 -0.19 0.851 -1.59102 .131293; L31417574 .07888 -0.09 0.32 0.7470112623 .0025776; L3002474 .0060927 0.32 0.7470127805 .296264 .1.6048 -1.46775 1.42689 .12648 .							
L1.							0458767
L20957654 .0030917 -1.86 0.062011825 .0002924							
L4. 0.0044091							0083911
UIGERcons							.0082322
Union							.0519541 0430297
L1.	Inflation	l					
L2.		.02776	.0673483	0.41	0.680	1042403	.1597603
L4.		.0302954	.0783529		0.699	1232734	.1838643
L1.							1357604
L1.	dLTGBY10Y						
L3.	L1.						.6432158
Inflation L1.							.1303011
L1.	L4.	.2874273	.1778953	1.62	0.106	0612411	.6360958
L2.		1300604	0770301	1.60	0.003	0217074	2027242
L41873291 .0786121 -2.38 0.017341406033252: UIDNK L10112022 .0070308 -1.59 0.1110249823 .002577: L20022274 .0068927 0.32 0.7470112821 .015736: L30082203 .0069236 1.18 0.2360053698 .021770: L40014458 .0067558 0.21 0.8310117953 .014686: UIGER .072821 .0332112 2.19 0.028 .0077282 .1379131 UIDNK dUnemploymentrate L11394132 .7406294 -0.19 0.851 -1.59102 1.31219. L2845928 .8616465 -0.98 0.326 -2.534724 .842861 .12. L31.567201 .8528654 -1.84 0.066 -3.238726 .104384! .40317449 .7428867 -0.04 0.966 -1.48775 1.4243: ULTORK dLTGBY10Y L13394431 1.995335 0.18 0.859 -3.394945 4.07383: .122290768 1.954916 -0.87 0.367 -5.523208 2.14017; .12326974 1.956314 0.17 0.866 -3.508208 2.14017; .12326974 1.956314 0.17 0.866 -3.508208 2.14017; .12326974 1.8570847 0.54 0.597 -1.214082 2.14562; .1407888 .8596566 0.16 0.870 -1.544095 1.82567; .13312168 .8669157 0.35 0.728 -1.397907 2.0003; .124800147 .866040; .124800147 .86644972 -0.56 0.579 -2.174398 1.21436; .131379074 0.0761393 1.81 0.070 -0.0113228 2.827137; .1379074 0.0761393 1.81 0.070 -0.0113228 2.827137; .1406288 1.959099 0.72 0.469 -0.918187 1.99404; .140628 1.293093 .3652239 3.54 0.000 .5772678 2.008915							.0272342
UIDNK L1.							2962654
L1.							
L3.		0112022	.0070308	-1.59	0.111	0249823	.0025779
L40014458 .0067558 0.21 0.8310117953 .0146861 UIGER							.0157369
							.0146868
UIDNK dUnemploymentrate L1.	UIGER	.072821		2.19	0.028	.0077282	.1379138
Automorphysemetrate	_cons	1577364	.108448	-1.45	0.146	3702906	.0548177
L1.	UIDNK						
L3.		1394132		-0.19	0.851	-1.59102	1.312194
L40317149 .7428887 -0.04 0.966 -1.48775 1.4243: dLTGBY10Y L13394431 1.905335 0.18 0.859 -3.394945 4.07383: L20290768 1.95816 0.01 0.988 -3.808847 3.86: L31.691516 1.954961 -0.87 0.387 -5.523208 2.14017: L43260974 1.956314 0.17 0.868 -3.506208 4.16646: Inflation L14657731 .8570847 0.54 0.567 -1.214082 2.14562; L21407888 .8596566 0.16 0.870 -1.544095 1.82567; L33012168 .8669157 0.35 0.728 -1.397907 2.0003; L44800147 .8644972 -0.56 0.579 -2.174398 1.21436; UIDNK L1159965 .0773175 2.07 0.039 .008367 .311446; L20712759 .0757993 0.94 0.347 -0.77288 .219839; L31379074 .0761393 1.81 0.070 -0.0113228 .287137; L40537929 .074293 0.72 0.469 -0.0018187 1.99404;							.842868
L1.							1.42432
L2.	dLTGBY10Y						
L3.							4.073831
Inflation L14657731 .8570847 0.54 0.587 -1.214082 2.145628 L21407888 .8596566 0.16 0.870 -1.544095 1.82567. L33012168 .8669157 0.35 0.728 -1.397907 2.0003. L44800147 .8644972 -0.56 0.579 -2.174398 1.214369 UIDNK L1159965 .0773175 2.07 0.039 .008367 .311446. L20712759 .0757993 0.94 0.347077288 .2198399. L31379074 .0761393 1.81 0.0700113228 .287137. L40537929 .0774293 0.72 0.4690918187 1.994049. UIGER 1.293093 .3652239 3.54 0.000 .5772678 2.008919	L3.	-1.691516	1.954981	-0.87	0.387	-5.523208	2.140175
L1.		.3260974	1.956314	0.17	0.868	-3.508208	4.160403
L2. 1497888 .8596506 0.16 0.870 -1.544095 1.82567. L3. 3012168 .8669157 0.35 0.728 -1.397907 2.0003. L44800147 .8644972 -0.56 0.579 -2.174398 1.214361 UIDNK L1. 1.599065 .0773175 2.07 0.039 .008367 .311446. L20712759 .0757993 0.94 0.347077288 .2198391 L31379074 .0761393 1.81 0.0700113228 .287137. L40537929 .0774293 0.72 0.4690918187 1994041		4657731	.8570247	0 54	0.587	-1.214082	2.145629
UIDNK L1.	L2.	.1407888	.8596506	0.16	0.870	-1.544095	1.825673
UIDNK L11599065 .0773175 2.07 0.039 .008367 .311446: L20712759 .0757993 0.94 0.347077288 .219839; L31379074 .0761393 1.81 0.0700113228 .287137: L40537929 .074293 0.72 0.4690918187 .1994049							2.00034 1.214369
L11599065 .0773175 2.07 0.039 .008367 .311446. L20712759 .0757993 0.94 0.347077288 .2198391 L31379074 .0761393 1.81 0.0700113228 .287137: L40537929 .074293 0.72 0.4690918187 .1994049						_	
L2. 0712759 0757593 0.94 0.347 - 077288 2198391 L3. 1379074 0761393 1.81 0.070 - 0113228 287137: L4. 0537929 0.74293 0.72 0.469 - 0918187 1.994049	L1.						.3114461
L40537929 .074293 0.72 0.4690918187 .1994049 UIGER 1.293093 .3652239 3.54 0.000 .5772678 2.008919						077288	.2198398
							1994045
_cons490448 1.192602 0.41 0.681 -1.847009 2.827900	UIGER						2.008919
							2.827906

VAR 7. Denmark – VAR model with 4 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

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• ESTONIA

Sample: 2008m4	thr	u 2022m12			Number of	obs	=	177
Log likelihood	=	-974.1487			AIC		=	11.27852
FPE	=	15.88016			HQIC		=	11.45318
<pre>Det(Sigma_ml)</pre>	=	12.10598			SBIC		=	11.70918
Equation		Parms	RMSE	R−sq	chi2	P>chi2		

Equation	Parms	RMSE	R-sq	chi2	P>chi2
dUnemploymentr~e	8	.430734	0.2697	65.36671	0.0000
Inflation	8	.622517	0.2783	68.24171	0.0000
UIEST	8	13.9415	0.1451	30.05053	0.0001

	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
dUnemploymentrate						
dUnemploymentrate						
L1.	.4979857	.0750763	6.63	0.000	.3508388	.6451326
L2.	0280474	.075392	-0.37	0.710	1758129	.1197181
Inflation						
L1.	0300607	.052498	-0.57	0.567	1329549	.0728336
L2.	0384446	.0532884	-0.72	0.471	142888	.0659987
UIEST						
L1.	0007205	.0022761	-0.32	0.752	0051816	.0037405
L2.	- 0012708	.0022698	-0.56	0.576	0057195	.0031779
UIGER	0071349	.0272765	-0.26	0.794	0605959	.046326
_cons	.0895686	.1144169	0.78	0.434	1346845	3138217
						.5150217
Inflation						
dUnemploymentrate						
L1.	.0011259	.1085038	0.01	0.992	2115376	2137895
L2.	0121231	.10896	-0.11	0.911	2256808	.2014345
Inflation						
L1.	.3383841	.0758726	4.46	0.000	1896766	.4870917
L2.	.15581	.0770149	2.02	0.043	.0048636	.3067564
UIEST						
L1.	.002262	.0032895	0.69	0.492	0041853	.0087093
L2.	.0009689	.0032804	0.30	0.768	0054606	.0073983
UIGER	.0685552	.0394213	1.74	0.082	0087091	.1458196
_cons	1925414	.1653607	-1.16	0.244	5166424	.1315596
UIEST dUnemploymentrate						
L1.	-1.783878	2.429992	-0.73	0.463	-6.546574	2.978818
L2.	-2.935064	2 440208	-1.20	0.229	-7.717784	1.847656
Inflation						
1111 tation	.8643024	1.699201	0.51	0.611	-2.46607	4.194674
L2.	3.670053	1.724782	2.13	0.033	2895414	7.050564
221	31070033	21724702	2113	01033	12033414	,103030-
UIEST						
L1.	.1534135	.0736702	2.08	0.037	.0090227	.2978044
L2.	.1022347	.0734661	1.39	0.164	0417562	.2462257
UIGER	.0680696	.8828578	0.08	0.939	-1.6623	1.798439
	11.54459	3.703327	3.12	0.002	4.286204	18.80298

VAR 8. Estonia – VAR model with 2 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

FINLAND

Sample: 2008m4	thi	ru 2022m12	Number of obs	=	177
Log likelihood	=	-567.9304	AIC	=	6.869271
FPE	=	.0113135	HQIC	=	7.160372
Det(Sigma_ml)	=	.0071961	SBIC	=	7.587045

Equation	Parms	RMSE	R−sq	ch12	P>chi2
Unemploymentrate	10	.438065	0.8011	713.0979	0.0000
dLTGBY10Y	10	.158895	0.2612	62.58666	0.0000
Inflation	10	.304527	0.2220	50.50005	0.0000
UIFIN	10	4.51735	0.2709	65.76116	0.0000

	Coefficient	Std. err.	Z	P> z	[95% conf.	interval]
Unampleyment rate						
Unemploymentrate Unemploymentrate						
L1.	.5453293	.0705372	7.73	0.000	407079	6835796
L2.	.3282743	.068321	4.80	0.000	.1943677	.4621809
dLTGBY10Y						
L1.	2867933	.2005006	-1.43	0.153	6797674	.1061807
L2.	.4053334	.2011138	2.02	0.044	.0111576	7995093
Inflation						
L1.	2968235	.105553	-2.81	0.005	5037035	0899435
L2.	0017415	.1094605	-0.02	0.987	2162801	.2127971
UIFIN						
L1.	0027328	.0072435	-0.38	0.706	0169298	.0114642
L2.	0038872	.0071872	-0.54	0.589	0179737	.0101994
UIGER	0079541	.030151	-0.26	0.792	067049	.0511409
_cons	1.147724	.3399914	3.38	0.001	.4813535	1.814095
dLTGBY10Y						
Unemploymentrate						
L1.	.0344239	0255854	1.35	0.178	0157225	.0845703
L2.	053406	.0247815	-2.16	0.031	1019769	0048352
dLTGBY10Y						
L1.	.2708699	.0727259	3.72	0.000	.1283298	.4134101
L2.	0781659	.0729483	-1.07	0.284	- 221142	.0648102
Inflation						
L1.	1264573	.0382863	3.30	0.001	.0514174	.2014971
L2.	0512261	.0397037	-1.29	0.197	1290439	.0265917
UIFIN						
L1.	0039491	.0026274	-1.50	0.133	0090987	.0012005
L2.	0049998	.0026069	-1.92	0.055	0101093	.0001097
UIGER	.0403737	.0109364	3.69	0.000	.0189387	.0618087
_cons	0290312	1233222	0.24	0.814	2126759	2707383
	 					
Inflation Unemploymentrate						
L1	- 0028457	.049035	-0.06	0.954	0989525	.0932612
L2.	0213141	.0474944	-0.45	0.654	1144013	.0717731
dLTGBY10Y						
L1.	3303574	.1393811	2.37	0.018	.0571755	.6035393
L2.	.1139287	.1398073	0.81	0.415	1600886	.3879461
Inflation						
L1.	.0279161	.0733768	0.38	0.704	1158997	.1717319
L2.	1156494	.0760931	1.52	0.129	0334904	.2647892
UIFIN						
L1.	.0012916	.0050354	0.26	0.798	0085776	.0111609
L2.	.000403	.0049963	0.08	0.936	0093895	.0101955
UIGER	.0603622	.02096	2.88	0.004	.0192815	.101443
_cons	0550822	2363502	0.23	0.816	4081557	5183201
UIFIN Unemploymentrate						
L1	.085566	.7273843	0.12	0.906	-1.340081	1.511213
L2.	8907832	.7045306	-1.26	0.206	-2.271638	.4900714
dLTGBY10Y						
L1.	-2.41914	2.067577	-1.17	0.242	-6.471516	1.633236
L2.	1.72858	2.0739	0.83	0.405	-2.336189	5.79335
Inflation						
L1.	.2676895	1.08847	0.25	0.806	-1.865672	2.401051
L2.	.275812	1.128764	0.24	0.807	-1.936526	2.48815
UIFIN						
L1.	.0532643	.0746954	0.71	0.476	093136	.1996646
L2.	.1176281	.0741144	1.59	0.112	0276335	.2628897
UIGER	1.370506	.3109196	4.41	0.000	.7611151	1.979898
cons	6.978434	3 506016	1.99	0.047	.1067696	13.8501

VAR 9. Finland – VAR model with 2 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• FRANCE

Sample: 2008m4	th	ru 2022m12	Number of obs	=	177
Log likelihood	=	-70.36518	AIC	=	1.247064
FPE	=	.0000409	HQIC	=	1.538165
Det(Sigma_ml)	=	.000026	SBIC	=	1.964838

Equation	Parms	RMSE	R-sq	chi2	P>chi2
dUnemploymentr~e	10	.146152	0.2262	51.74037	0.0000
dLTGBY10Y	10	161254	0.2300	52.86484	0.0000
Inflation	10	347078	0.1356	27.76705	0.0010
UIFRA	10	.716081	0.5563	221.8773	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
dUnemploymentrate						
dUnemploymentrate						
L1. L2.	.4889574	.0735836	6.64	0.000 0.001	.3447362	.6331787
LZ.	2456504	.0733638	-3.35	0.001	3894409	- 10186
dLTGBY10Y						
L1. L2.	- 0342238 - 0644222	.0655211 .0662339	-0.52 -0.97	0.601 0.331	- 1626429 - 1942383	0941952 0653938
LZ.	0044222	.0002339	-0.97	0.331	1942363	.003393
Inflation						
L1. L2.	0186447	.0310588 .0306737	0.60 -0.25	0.548 0.804	- 0422295 - 0677325	.0795189
L2.	0070132	.0300/3/	-0.23	0.004	0077323	.032300
UIFRA						
L1. L2.	.0166293 0227341	.0141903 .0140007	1.17 -1.62	0.241 0.104	0111832 0501749	.044441
221	1022/342	10140007	1102	01104	10301743	1004700
UIGER	0043104	.0103157	-0.42	0.676	0245288	.0159079
_cons	.0372551	.0459145	0.81	0.417	0527356	.1272458
dLTGBY10Y						
dUnemploymentrate						
L1. L2.	- 08107 1017926	.081187 0809444	-1.00 1.26	0.318 0.209	2401936 0568556	0780535 2604408
LZ.	1101/928	. 0003444	1.20	0.209	0500550	. 2004400
dLTGBY10Y						
L1. L2.	2985442 - 2496687	.0722914 .0730778	4.13 -3.42	0.000 0.001	.1568557	440232
LZ.	249000/	.0/30//0	-3.42	0.001	3928985	1004388
Inflation	1					
L1.	.0996505	.0342681	2.91	0.004	.0324862	166814
L2.	.0330189	.0338432	0.98	0.329	0333125	.099350
UIFRA						
L1.	.0116773	.0156566	0.75	0.456	019009	.042363
L2.	0155853	.0154474	-1.01	0.313	0458617	.01469
UIGER	.0325209	.0113816	2.86	0.004	.0102133	.0548284
_cons	1484746	.0506588	-2.93	0.003	247764	0491852
Inflation						
dUnemploymentrate						
L1. L2.	.0587642 2997709	.1747442 .1742223	0.34 -1.72	0.737 0.085	2837282 6412402	401256 041698
L2.	2337703	.1742223	-1,72	0.003	0412402	.041050
dLTGBY10Y						
L1. L2.	.4495636 .2528141	1555977 1572903	2.89 1.61	0.004 0.108	1445977 - 0554693	.754529 .561097
L2.	12320141	.1372903	1.01	0.100	0554095	.301037.
Inflation						
L1. L2.	- 1499291 0193795	0737576 072843	-2.03 0.27	0.042 0.790	2944913 1233902	162149
LZ.	.0193793	.072043	0.27	0.750	1233902	.102149
UIFRA						
L1. L2.	.0367366 0499872	.0336987 .0332485	1.09 -1.50	0.276 0.133	- 0293116 - 115153	102784 015178
LZ.	0499872	.0332463	-1.50	0.133	115155	.013178
UIGER	.0311893	.0244974	1.27	0.203	0168247	.079203
_cons	.0519488	.1090364	0.48	0.634	1617585	.265656
UIFRA						
dUnemploymentrate						
L1.	3345824		-0.93	0.353	-1.041203	372038
L2.	.1124415	.3594505	0.31	0.754	5920686	.816951
dLTGBY10Y						
L1.	2031685	.3210248	-0.63	0.527	8323656	
	2031685 .7175281	3210248 324517	-0.63 2.21	0.527 0.027	8323656 .0814864	
L1.	.7175281	.324517	2.21			
L1. L2. Inflation L1.	.7175281	.324517	0.95	0.027	.0814864 1529452	443568
L1. L2. Inflation	.7175281	.324517	2.21	0.027	.0814864	443568
L1. L2. Inflation L1.	.7175281	.324517	0.95	0.027	.0814864 1529452	.426028 1.3535 .443568 .3451609
L1. L2. Inflation L1. L2. UIFRA L1.	.7175281 .1453116 .0506023	.324517 .1521746 .1502877	2.21 0.95 0.34	0.027 0.340 0.736	.0814864 1529452 2439562	1.3535 .443568 .3451609
L1. L2. Inflation L1. L2. UIFRA	.7175281 .1453116 .0506023	.324517 .1521746 .1502877	2.21 0.95 0.34	0.027 0.340 0.736	.0814864 1529452 2439562	1.3535 .443568 .3451609
L1. L2. Inflation L1. L2. UIFRA L1.	.7175281 .1453116 .0506023	.324517 .1521746 .1502877	2.21 0.95 0.34	0.027 0.340 0.736	.0814864 1529452 2439562	1.35357

VAR 10. France – VAR model with 2 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• **GERMANY**

Vector autoregression

 Sample: 2008m4
 thru 2022m12
 Number of obs
 = 177

 Log likelihood = 50.55013
 AIC = -.1644083

 FPE = 9.97e-06
 HQIC = .0975828

 Det(Sigma_ml) = 6.64e-06
 SBIC = .4815883

Equation	Parms	RMSE	R-sq	chi2	P>chi2
dUnemploymentr~e	9	.059037	0.2394	55.71135	0.0000
dLTGBY10Y	9	.157796	0.1938	42.53503	0.0000
Inflation	9	.399478	0.1411	29.06681	0.0003
UIGER	9	784024	0.6797	375.65	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
dUnemploymentrate						
dUnemploymentrate						
L1. L2.	.2124205	.0713921 .0708811	2.98 4.77	0.003 0.000	.0724945 .1988801	3523466 4767288
L2.	13378844	.0708811	4.//	0.000	.1900001	.4707200
dLTGBY10Y						
L1.	0122745	.028112	-0.44	0.662	0673731	.042824
L2.	0319322	.0278352	-1.15	0.251	0864881	.0226238
Inflation						
L1.	012462	.0112143	-1.11	0.266	0344415	.0095176
L2.	002932	.0114364	-0.26	0.798	0253469	.019483
UIGER						
L1.	.005006	.005332	0.94	0.348	0054445	.0154565
L2.	0006147	.0053675	-0.11	0.909	0111348	.0099055
	0200567	017025	1 60	0.000	0630447	0047313
_cons	0286567	.017035	-1.68	0.093	0620447	.0047313
dLTGBY10Y						
dUnemploymentrate						
L1.	0315674	.1908211	-0.17	0.869	4055699	.3424351
L2.	.2452285	.1894551	1.29	0.196	1260966	.6165536
dLTGBY10Y						
L1.	.2545815	.0751395	3.39	0.001	.1073108	.4018521
L2.	1603179	.0743995	-2.15	0.031	3061383	0144975
Inflation						
L1.	.0904732	.0299741	3.02	0.003	.031725	.1492214
L2.	0039828	.0305679	-0.13	0.896	0638948	.0559293
UIGER L1.	.0092786	.0142516	0.65	0.515	018654	.0372112
L2.	0155218	0143466	1 08	0.279	- 0125971	0436407
_cons	12036	.0455321	-2.64	0.008	2096014	0311187
Inflation						
dUnemploymentrate						
L1.	9297021	4830834	-1.92	0.054	-1.876528	.017124
L2.	.2247163	.4796252	0.47	0.639	7153318	1.164764
dLTGBY10Y						
L1.	3992782	.1902234	2.10	0.036	.0264472	.7721093
L2.	3073113	.1883501	-1.63	0.103	6764708	.0618481
Inflation						
Inflation L1.	0618885	.0758827	-0.82	0.415	2106158	.0868387
L2.	.1300164	.0773859	1.68	0.093	0216572	2816899
UIGER L1.	.0243559	.0360794	0.68	0.500	0463584	.0950702
L2.	.0560556	03632	1.54	0.123	0151303	1272415
_cons	2166168	.1152694	-1.88	0.060	4425406	.009307
UIGER						
dUnemploymentrate						
L1.	.9239724	.9481107	0.97	0.330	9342903	2.782235
L2.	-1.503463	.9413234	-1.60	0.110	-3.348423	.3414975
dLTGBY10Y						
L1.	.2949808	.3733369	0.79	0.429	436746	1.026708
L2.	3383824	.3696603	-0.92	0.360	-1.062903	.3861385
T - 43 - 4 1						
Inflation L1.	.2654731	.148929	1.78	0.075	0264225	.5573686
L2.	0684246		0.45		- 2292534	3661026
UIGER						
L1. L2.	.4989949 .3465368	.0708102 .0712825	7.05	0.000 0.000	.3602094 .2068257	.6377804 .4862479
LZ.	3403308	.0/12023	4.86	0.000	.200023/	.40024/9
_cons	.6220815	.2262303	2.75	0.006	.1786783	1.065485
	J					

VAR 11. Germany – VAR model with 2 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• GREECE

Sample: 2008m11 t Log likelihood = FPE = Det(Sigma_ml) =	hru 2022m1 -963.9795 6.100504 9894824			Number o AIC HQIC SBIC	f obs	= = =	170 13.12917 14.26691 15.93294
Equation	Parms	RMSE	R-sq	chi2	P>chi2		
dUnemploymentr~e dLTGBY10Y Inflation UIGRE	38 38 38 38	.53401 1.35235 .594973 3.93832	0.3079 0.2032 0.8200 0.4755	75.64323 43.34069 774.4211 154.1317	0.0002 0.2191 0.0000 0.0000		

	т					
	Coefficient	Std. err.	z	P> z	[95% conf.	interval
dUnemploymentrate						
dUnemploymentrate						
L1.	0877553	.0748506	-1.17	0.241	2344598	.058949
L2.	0850276	.076491	-1.11	0.266	2349473	.06489
L3.	.077753	.0758018	1.03	0.305	0708159	.226321
L4.	1440582 .2280704	.073371	-1.96	0.050	2878627	- 000253 364801
L5.	1527938	.0697619 .0729445	3.27 2.09	0.001 0.036	.0913396 .0098252	295762
L7	0869717	0745483	1.17	0.243	- 0591403	233083
L8.	- 0979309	076064	-1.29	0.198	2470137	.051151
L9.	.0651386	.0755957	0.86	0.389	0830263	.213303
dLTGBY10Y						
L1.	.0342786	.0304932	1.12	0.261	- 025487	.09404
L2.	.0373458	.0304798	1.23	0.220	0223935	.09708
L3.	.0030272	.0315086	0.10	0.923	- 0587285 - 0503217	.064782
L4. L5.	.01023 .0344706	.0308943 .0312563	0.33 1.10	0.741 0.270	0503217	.07078
L6.	- 0036194	031152	-0.12	0.908	- 0646762	05743
L7.	0088321	.03141	0.28	0.779	0527303	07039
L8.	0199351	0309614	0.64	0.520	0407482	.080618
L9.	0018066	.0303611	-0.06	0.953	0613133	.057700
Inflation						
L1.	.0101033	.0693145	0.15	0.884	1257506	.14595
L2.	.066153	.0680054	0.97	0.331	0671351	19944
L3.	.041064	.0739406	0.56	0.579	1038569	185984
L4.	.0927737	.0444598	2.09	0.037	.0056342 .0403857	17991
L5. L6.	.1330433	0472752 0439653	2.81	0.005 0.018		.225700
L7.	1363678	.0439655	1.93	0.018	.018173 002428	27516
L8.	.0396303	0701473	0.56	0.572	0978559	.177110
L9.	0588962	.0785823	0.75	0.454	- 0951224	21291
	1					
UIGRE						
L1.	.0032803	.0100585	0.33	0.744	0164339	.022994
L2.	0114755	.0098515	-1.16	0.244	0307842	.00783
L3.	.012391	.0095738	1.29	0.196	0063734	.03115
L4.	0004813	.009975	-0.05	0.962	020032	.019069
L5.	.0144817	.0097595 .0101647	1.48	0.138	0046465	.033609
L6. L7.	0062406 0015076	.0101647	-0.61 -0.19	0.539 0.847	- 0261631 - 0167944	.013681
L8.	0001732	0076743	0.02	0.982	- 0148682	015214
L9.	.0042876	008024	0.53	0.593	0114393	.020014
UIGER	1818171	.0474997	-3.83	0.000	2749148	088719
_cons	.5850963	.2271442	2.58	0.010	.1399017	1.03029
HLTGBY10Y						
dUnemploymentrate					2404456	20462
L1. L2.	0231044	1895545 1937088	0.12 1.20	0.903 0.231	- 3484156 - 1474232	.394624
L3.	0428767	.1919635	0.22	0.823	- 3333649	419118
L4.	0390267	1858075	-0.21	0.834	4032027	.325149
L5.	1246614	.1766677	-0.71	0.480	4709237	.22160
L6.	.0761971	.1847274	0.41	0.680	- 285862	.43825
L7.	3168659	.188789	-1.68	0.093	6868854	.05315
L8.	2853129	.1926275	-1.48	0.139	6628558	.092
L9.	.0144287	.1914415	0.08	0.940	3607898	.389647
dLTGBY10Y					0453500	25725
L1.	.1060018 1970911	.0772222	1.37	0.170	- 0453509	- 25735
L2. L3.	- 1970911 .065596	.0771882 .0797935	-2.55 0.82	0.011 0.411	3483772 0907965	- 0458 22198
L4.	.167777	.0782379	2.14	0.032	0144335	32112
L5.	0927368	.0791546	1.17	0.241	- 0624033	24787
L6.	.0032508	.0788905	0.04	0.967	- 1513718	15787
L7.	.0048282	.0795438	0.06	0.952	1510748	16073
L8.	- 0629571	.0784078	-0.80	0.422	- 2166336	.09071
L9.	.0480699	.0768877	0.63	0.532	1026272	.1987
	1					
Inflation						
L1.	.1932964	.1755346	1.10	0.271	1507452	.53733
			-0.52	0.602	- 4273411	247740
L2.	0897973	.1722194			366555	
L2. L3.	0983348	.18725	0.53	0.599	2686685	
L2. L3. L4.	.0983348	18725 1125916	0.96	0.599 0.336	1124331	.32891
L2. L3. L4. L5.	.0983348 .1082424 .1114268	18725 1125916 1197214	0.96 0.93	0.599 0.336 0.352	- 1124331 - 1232228	.32891 .34607
L2. L3. L4. L5. L6.	.0983348 .1082424 .1114268 0957285	18725 1125916 1197214 1113394	0.96 0.93 -0.86	0.599 0.336 0.352 0.390	1124331 1232228 3139498	.32891 .346070 .12249
L2. L3. L4. L5.	.0983348 .1082424 .1114268 0957285 .0112998	.18725 .1125916 .1197214 .1113394 .1793359	0.96 0.93 -0.86 0.06	0.599 0.336 0.352 0.390 0.950	1124331 1232228 3139498 340192	32891 346076 122492 362793
L2. L3. L4. L5. L6. L7.	.0983348 .1082424 .1114268 0957285	18725 1125916 1197214 1113394	0.96 0.93 -0.86	0.599 0.336 0.352 0.390	1124331 1232228 3139498	.32891 .346070 .122492 .362793
L2. L3. L4. L5. L6. L7. L8.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423	.18725 .1125916 .1197214 .1113394 .1793359 .1776437	0.96 0.93 -0.86 0.06 1.17	0.599 0.336 0.352 0.390 0.950 0.241	1124331 1232228 3139498 340192 1397329	.32891 .346070 .122492 .362793
L2. L3. L4. L5. L6. L7. L8.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423	.18725 .1125916 .1197214 .1113394 .1793359 .1776437	0.96 0.93 -0.86 0.06 1.17	0.599 0.336 0.352 0.390 0.950 0.241	1124331 1232228 3139498 340192 1397329	.32891 .346070 .122492 .362793
L2. L3. L4. L5. L6. L7. L8.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423	.18725 .1125916 .1197214 .1113394 .1793359 .1776437	0.96 0.93 -0.86 0.06 1.17	0.599 0.336 0.352 0.390 0.950 0.241	1124331 1232228 3139498 340192 1397329 2707998	.32891: .346070 .12249; .36279: .55661: .50928:
L2. L3. L4. L5. L6. L7. L8. L9. UIGRE L1.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423 .1192426	.18725 .1125916 .1197214 .1113394 .1793359 .1776437 .1990049	0.96 0.93 -0.86 0.06 1.17 0.60	0.599 0.336 0.352 0.390 0.950 0.241 0.549	1124331 1232228 3139498 340192 1397329 2707998	.32891 .346076 .12249 .36279 .55661 .50928
L2. L3. L4. E5. L6. L7. L8. L9. UIGRE L1. L2.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423 .1192426	.18725 .1125916 .1197214 .1113394 .1793359 .1776437 .1990049	0.96 0.93 -0.86 0.06 1.17 0.60 1.20 0.13	0.599 0.336 0.352 0.390 0.950 0.241 0.549	1124331 1232228 3139498 346192 1397329 2707998 0194426 0456828 0569361	.32891 .346070 .12249 .36279 .55661 .50928
L2. L3. L4. E5. L6. L7. L8. L9. UIGRE L1. L2. L3.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423 .1192426 .0304824 .0032153 0094165	.18725 .1125916 .1197214 .1113394 .1793359 .1776437 .1990049	0.96 0.93 -0.86 0.06 1.17 0.60 1.20 0.13 -0.39	0.599 0.336 0.352 0.390 0.950 0.241 0.549 0.231 0.897 0.698	1124331 1232228 313948 349192 1397329 2707998 0194426 0456828 0569361 0417568	.32891 .346076 .12249; .36279; .55661; .50928; .08040; .05211; .03810;
L2. L3. L4. L5. L6. L7. L8. L9. UIGRE L1. L2. L3. L4.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423 .1192426 .0304824 .0032153 0094165 .007754	.18725 .1125916 .1197214 .1113394 .1793359 .1776437 .1990049 .0254724 .0249484 .0242451 .0252611	0.96 0.93 -0.86 0.06 1.17 0.60 1.20 0.13 -0.39 0.31	0.599 0.336 0.352 0.390 0.950 0.241 0.549 0.231 0.897 0.698 0.759	1124331 123228 3139498 349192 1397329 2707998 0194426 0456828 0569361 0417568	.32891 .34607(.12249; .36279; .55661 .50928; .08040; .05211; .03810; .05726;
L2. L3. L4. L5. L6. L7. L8. L9. UIGRE L1. L2. L3. L4. L5.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423 .1192426 .0304824 .0032153 0094165 .007754 0077223	.18725 .1125916 .1197214 .1119394 .1793359 .1776437 .1990049 .0254724 .0249484 .0242451 .0252611 .0247153	0.96 0.93 -0.86 0.06 1.17 0.60 1.20 0.13 -0.39 0.31 -0.29 -0.31	0.599 0.336 0.352 0.390 0.950 0.241 0.549 0.231 0.897 0.698 0.759 0.770	1124331 1232228 3139498 340192 1397329 2707998 0194426 0456828 055664 055664	.32891 .34607 .12249; .55661 .50928; .08040; .05211; .03810; .057264 .041214
L2. L3. L4. L5. L6. L7. L8. L9. UIGRE L1. L2. L3. L4. L5. L6. L7.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423 .1192426 .0304824 .0032153 0094165 .007754 007723	.18725 .1125916 .1197214 .1113394 .1793359 .1776437 .1990049 .0254724 .0249484 .0242451 .0252611 .0252611 .0257415 .0197518	0.96 0.93 -0.86 0.06 1.17 0.60 1.20 0.13 -0.39 0.31 -0.29 -0.31 0.62	0.599 0.336 0.352 0.390 0.950 0.241 0.549 0.231 0.897 0.770 0.775 0.7753	11243311232283193498346192139732927079980456828056936104175680556640585585	.328917 .346077 .12249 .556617 .509285 .080407 .052113 .038103 .057264 .041216
L2. L3. L4. L5. L6. L7. L8. L9. UIGRE L1. L2. L3. L4. L5. L6. L7. L8.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423 .1192426 .032153 0097154 007754 007223 0081061 .0122445	.18725 .1129916 .1197214 .1113394 .1793359 .1776437 .1990049 .0254724 .0249484 .0242451 .0252611 .0257415 .0257415 .0257415	0.96 0.93 -0.86 0.06 1.17 0.60 1.20 0.13 -0.39 0.31 -0.29 -0.31 0.62	0.599 0.336 0.352 0.390 0.950 0.241 0.549 0.231 0.897 0.698 0.759 0.770 0.753 0.535	1124331 1232228 3193498 349192 1397329 2707998 0194426 0456828 0569361 0417568 0585585 0264683 04566	.328917 .346076 .12249 .36279 .556617 .509285 .08040 .052113 .038103 .05726 .041218 .042344
L2. L3. L4. L5. L6. L7. L8. L9. UIGRE L1. L2. L3. L4. L5. L6. L7.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423 .1192426 .0304824 .0032153 0094165 .007754 007723	.18725 .1125916 .1197214 .1113394 .1793359 .1776437 .1990049 .0254724 .0249484 .0242451 .0252611 .0252611 .0257415 .0197518	0.96 0.93 -0.86 0.06 1.17 0.60 1.20 0.13 -0.39 0.31 -0.29 -0.31 0.62	0.599 0.336 0.352 0.390 0.950 0.241 0.549 0.231 0.897 0.770 0.775 0.7753	11243311232283193498346192139732927079980456828056936104175680556640585585	.328917 .346076 .12249 .36279 .556617 .509285 .08040 .052113 .038103 .05726 .041218 .042344
L2. L3. L4. L5. L6. L7. L8. L9. UIGRE L1. L2. L3. L4. L5. L6. L7. L8.	.0983348 .1082424 .1114268 0957285 .0112998 .2084423 .1192426 .032153 0097154 007754 007223 0081061 .0122445	.18725 .1129916 .1197214 .1113394 .1793359 .1776437 .1990049 .0254724 .0249484 .0242451 .0252611 .0257415 .0257415 .0257415	0.96 0.93 -0.86 0.06 1.17 0.60 1.20 0.13 -0.39 0.31 -0.29 -0.31 0.62	0.599 0.336 0.352 0.390 0.950 0.241 0.549 0.231 0.897 0.698 0.759 0.770 0.753 0.535	1124331 1232228 3193498 349192 1397329 2707998 0194426 0456828 0569361 0417568 0585585 0264683 04566	.46531 .328917 .346076 .122495 .556611 .509285 .080407 .052113 .03816 .041214 .04234 .05095 .03055 .03156

nflation						
Unemploymentrate						
L1.	.0695006	.0833957	0.83	0.405	0939519	.23295
L2.	.0840794	.0852234	0.99	0.324	0829553	.25111
L3.	0057782	.0844555	-0.07	0.945	171308	.15975
L4.	.0751821	.0817472	0.92	0.358	0850394	.23540
L5.	0016045	.0777261	-0.02	0.984	- 1539448	.15073
L6.	.1009847	.081272	1.24	0.214	0583055	.26027
L7.	0808031	.0830589	-0.97	0.331	2435955	.08198
L8.	.1076406	.0847477	1.27	0.204	0584618	.27374
L9.	1950644	.0842259	-2.32	0.021	3601441	02998
dLTGBY10Y						
L1.	- 0319505	0339744	-0.94	0.347	0985391	.0346
L2.	0151593	.0339594	-0.45	0.655	0817185	.05
L3.	.0166566	.0351057	0.47	0.635	- 0521492	.08546
L4.	.0579728	.0344213	1.68 -0.53	0.092	0094916	.12543
L5.	018509	.0348245		0.595 0.404	0867639	.04974
L6.	.0289802	.0347084	0.83		039047	.09700
L7. L8.	0085664 .0000632	0349958 034496	-0.24 0.00	0.807 0.999	- 0771569 - 0675478	.06002 .06767
L9.	0287381	0338272	-0.85	0.396	0950383	0375
251	10207501	10330272	0.03	0.550	10330303	10373
Inflation						
L1.	.0979427	.0772276	1,27	0.205	0534206	.24930
L2.	.0792451	.075769	1.05	0.296	0692594	.22774
L3.	.0589294	.0823818	0.72	0.474	1025359	.22039
L4.	- 1736126	.0495354	-3.50	0.000	2707001	0765
L5.	- 101832	0526722	-1.93	0.053	- 2050676	00140
L6.	7542651	0489845	15 40	0.000	6582572	85027
L7.	2393922	.0788999	-3 03	0.002	3940332	08475
L8.	2663523	.0781554	-3.41	0.001	4195342	11317
L9.	1612972	0875534	-1.84	0.065	3328988	.01030
UIGRE						
L1.	0055444	.0112068	-0.49	0.621	0275093	.01642
L2.	0083818	.0109762	-0.76	0.445	0298948	.01313
L3.	.014026	.0106668	1.31	0.189	0068806	.03493
L4.	- 0178556	.0111138	-1.61	0.108	0396381	.0039
L5.	.0100068	.0108736	0.92	0.357	0113052	.03131
L6.	0038931	.0113251	-0.34	0.731	02609	.01830
L7.	.0078545	.0086899	0.90	0.366	0091774	.02488
L8.	.0118464	.0085505	1.39	0.166	0049122	.0286
L9.	.0048846	.0089401	0.55	0.585	0126376	.02240
UIGER	0968663	.0529224	1.83	0.067	0068597	.20059
_cons	4335741	.2530755	-1.71	0.087	9295929	.06244
IGRE						
Unemploymentrate						
L1.	- 2888069	.5520228	-0.52	0.601	-1.370752	.7931
	- 3040015	5641209	-0.54	0.590	-1.409658	80165
L2.						
L2. L3.	- 658829	.5590383	-1.18	0.239	-1 754524	43686
L2. L3. L4.	- 658829 - 2421233	.5590383 .5411108	-1.18 -0.45	0.239 0.655	-1.754524 -1.302681	
L3.	1	.5590383 .5411108 .5144937				.81843
L3. L4. L5.	2421233 .0658563	.5411108 .5144937	-0.45 0.13	0.655 0.898	-1.302681 9425328	.81843 1.0742
L3. L4. L5. L6.	2421233 .0658563 1.535351	.5411108 .5144937 .5379654	-0.45 0.13 2.85	0.655 0.898 0.004	-1.302681 9425328 .4809578	.81843 1.0742 2.5897
L3. L4. L5. L6. L7.	2421233 .0658563 1.535351 0753442	.5411108 .5144937 .5379654 .5497934	-0.45 0.13 2.85 -0.14	0.655 0.898 0.004 0.891	-1.302681 9425328 .4809578 -1.152919	.81843 1.0742 2.5897 1.0022
L3. L4. L5. L6. L7. L8.	2421233 .0658563 1.535351 0753442 .1673944	.5411108 .5144937 .5379654 .5497934 .5609719	-0.45 0.13 2.85 -0.14 0.30	0.655 0.898 0.004 0.891 0.765	-1.3026819425328 .4809578 -1.1529199320903	.81843 1.0742 2.5897 1.0022
L3. L4. L5. L6. L7.	2421233 .0658563 1.535351 0753442	.5411108 .5144937 .5379654 .5497934	-0.45 0.13 2.85 -0.14	0.655 0.898 0.004 0.891	-1.302681 9425328 .4809578 -1.152919	.81843 1.0742 2.5897 1.0022
L3. L4. L5. L6. L7. L8.	2421233 .0658563 1.535351 0753442 .1673944	.5411108 .5144937 .5379654 .5497934 .5609719	-0.45 0.13 2.85 -0.14 0.30	0.655 0.898 0.004 0.891 0.765	-1.3026819425328 .4809578 -1.1529199320903	.81843 1.0742 2.5897 1.0022
L3. L4. L5. L6. L7. L8.	2421233 .0658563 1.535351 0753442 .1673944	.5411108 .5144937 .5379654 .5497934 .5609719	-0.45 0.13 2.85 -0.14 0.30	0.655 0.898 0.004 0.891 0.765	-1.3026819425328 .4809578 -1.1529199320903	.81843 1.0742 2.5897 1.0022 1.2668
L3. L4. L5. L6. L7. L8. L9.	2421233 .0658563 1.535351 0753442 .1673944 .177107	.5411108 .5144937 .5379654 .5497934 .5609719	-0.45 0.13 2.85 -0.14 0.30 0.32	0.655 0.898 0.004 0.891 0.765 0.751	-1.3026819425328 .4809578 -1.15291993209039156087	.81843 1.0742 2.5897 1.0022 1.2668 1.2698
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y	2421233 .0658563 1.535351 0753442 .1673944 .177107	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182	-0.45 0.13 2.85 -0.14 0.30 0.32	0.655 0.898 0.004 0.891 0.765 0.751	-1.3026819425328 .4809578 -1.15291993209039156087	.81843 1.0742 2.5897 1.0022 1.2668 1.2698
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1.	2421233 .0658563 1.535351 0753442 .1673944 .177107	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182	-0.45 0.13 2.85 -0.14 0.30 0.32	0.655 0.898 0.004 0.891 0.765 0.751	-1.3026819425328 .4809578 -1.15291993209039156087	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16506
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2.	2421233 .0658563 1.535351 0753442 .1673944 .177107	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25	0.655 0.898 0.004 0.891 0.765 0.751	-1.3026819425328 .4809578 -1.152919932090391560872522557160875146384	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16506 .39625
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3.	2421233 .0658563 1.535351 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2248874 .2323756 .2278453	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625	-1.302681 9425328 .4809578 -1.152919 9320903 9156087 252255 716087 5146384 3352789 5145468 0892149	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16598 .39625 .55785
L3. L4. L5. L6. L7. L8. dLTGBY10Y L1. L2. L3. L4.	2421233 .0658563 1.535351 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148	0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785	-1.302681 9425328 -4809578 -1.152919 9320903 9156087 252255 716087 5146384 3352789 5145468	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16506 .39625 .55785 .38905
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8.	2421233 .0658563 1.535351 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2216484 .2283402	0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.06	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.041	-1.302681 9425328 -4809578 -1.152919 9320903 9156087 5146384 3552789 5145468 0892149 9266212 4610023	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16506 .39625 .55785 .38905 .8113701857
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6.	2421233 .0658563 1.535351 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746	0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116	-1.3026819425328 -4809578 -1.1529199320903915608725225571608751463843352789514546808921499266212	.81843 1.0744 2.5897 1.0664 1.2698 .62928 .16506 .39625 .55788 .38133 01857
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8.	2421233 .0658563 1.535351 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2216484 .2283402	0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.06	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.041	-1.302681 9425328 -4809578 -1.152919 9320903 9156087 5146384 3552789 5145468 0892149 9266212 4610023	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16506 .39625 .55785 .38905 .8113701857
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation	2421233 .0658563 1.535351 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .223756 .2278453 .2305148 .229746 .2316484 .2283402 .2239132	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.66	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.785 0.116 0.953 0.552	-1.302681 942532 -4809578 -1.152919 9320903 9156087 5146384 3552789 5145468 0892149 9266212 4610023 5721387	.81843 1.0742 1.0972 1.0022 1.2666 1.2698 .62928 .16506 .39625 .55785 .38906 .8130 -01857 .43407
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 472598 0134637 1332769	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2239132	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.06 -0.60	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.041 0.953 0.552	-1.302681 9425328 -4809578 -1.152919 9320903 9156087 252255 716687 5146384 3352789 5145468 0892149 9266212 4610023 5721387	.81843 1.0742 2.5899 1.0022 1.2666 1.2698 .62928 .16506 .39625 .55738 .81133 01857 .43400
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2239132 .511194 .5015393	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.66 -0.60	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.041 0.955 0.552	-1.3026819425328 -4809578 -1.152919932090391560872522557160875146384335278951454680892149926621246100235721387	.81843 1.0742 2.5899 1.0022 1.2666 1.2698 .62928 .16506 .39625 .55788 .343407 .30558
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3.	2421233 .0658563 1.535351 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112698 062746 .3610789 4725986 0134637 1332769	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2305148 .229746 .229746 .2239132 .511194 .5615393 .5453116	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.66 -0.60	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.785 0.116 0.953 0.552	-1.3026819425324809578 -1.15291993209039156087252255716087514638433527895145468089214992662124610023572138765923355277317982976	.81843 1.0742 2.5899 1.0022 1.2666 1.2696 .62926 .16506 .39625 .38905 .81137 01855 .43407 .30556
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2233402 .2239132 .511194 .5915393 .5453116 .3278906	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.60 0.60 0.67 0.86 0.50	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.953 0.953 0.552	-1.3026819425328409578 -1.15291993209039156087252255716687514638433527895145468089214992662124610023572138765923355277317982976 .1371796	.81843 1.0742 2.5899 1.0022 1.2666 1.2698 .62928 .16506 .39625 .55785 .38906 .81137 -01857 .43400 .30558
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2395148 .229746 .2316484 .2283402 .2239132 .511194 .5015393 .5453116 .3278996 .3486541	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.66 -0.66 0.50 2.38 1.67	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.716 0.041 0.953 0.552	-1.3026819425328 -4809578 -1.15291993209039156087 2522557166875146384335278951454680892149926621246100235721387 6592335527731798297613717961022886	.81843 1.0742 2.5899 1.0022 1.2666 1.2698 .62928 .16506 .39625 .55785 .38909 .81137 01857 .43407 .30558
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6.	2421233 .0658563 1.535351 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112698 062746 .3610789 4725986 0134637 1332769	.5411108 .5144937 .5379654 .5497934 .5609719 .55755182 .2248874 .2247884 .2323756 .2305148 .229746 .229746 .2239132 .511194 .5015393 .5453116 .3278906 .3486541 .324244	0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.27 1.57 -2.04 -0.66 -0.60 0.67 0.86 0.50 2.38 1.67 0.18	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.116 0.625 0.785 0.116 0.953 0.552	-1.3026819425328409578 -1.15291993209039156087252255716087514638433527895145468089214992662124610023572138765923355277317982976 .13717961022886575931	.81843 1.0742 2.5899 1.0022 1.2666 1.2696 .62926 .16506 .39625 .38905 .81137 -01855 .43407 .30556
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L6. L7. L8. L9.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756 474383	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2316484 .233402 .2239132 .511194 .5015393 .5453116 .3278906 .3486541 .324244 .522264	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.60 0.60 0.67 0.86 0.50 2.38 1.67 0.18 0.50	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.116 0.953 0.552 0.552	-1.3026819425328409578 -1.152919932090391560872522557166875146384335278951454680892149926621246100235721387659233552773179829761022886575931 -1.498002	.81843 1.0742 2.5899 1.0022 1.2668 1.2698 .62928 .16506 .39625 .55785 .38905 .81137 -01857 .43440 1.4322 1.264 6.9506 .554923
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2283402 .2239132 .511194 .5015393 .5453116 .3278966 .3486541 .3278966 .3486541 .324244 .522264 .517336	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 -2.04 -0.66 -0.66 0.67 0.86 0.58 1.67 0.18 -0.91 -0.18 -0.91 -0.18	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.041 0.941 0.952 0.552	-1.3026819425328409578 -1.15291993209039156087 2522557160875146384335278951454680892149926621246100235721387 6592335527731798297613717961022886575931 -1.488543	.81843 1.0742 2.5899 1.0022 1.2666 1.2698 .62928 .16506 .39625 .55785 .38908 .81137 01857 .43400 1.4132 1.3392 1.4224 1.2646 .69508 .54922 1.5492 1
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L6. L7. L8. L9.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756 474383	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2316484 .233402 .2239132 .511194 .5015393 .5453116 .3278906 .3486541 .324244 .522264	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.60 0.60 0.67 0.86 0.50 2.38 1.67 0.18 0.50	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.116 0.953 0.552 0.552	-1.3026819425328409578 -1.152919932090391560872522557166875146384335278951454680892149926621246100235721387659233552773179829761022886575931 -1.498002	.81843 1.0742 2.5899 1.0022 1.2666 1.2698 .62928 .16506 .39625 .55785 .38908 .81137 01857 .43400 1.4132 1.3392 1.4224 1.2646 .69508 .54922 1.5492 1
L3.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2283402 .2239132 .511194 .5015393 .5453116 .3278966 .3486541 .3278966 .3486541 .324244 .522264 .517336	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 -2.04 -0.66 -0.66 0.67 0.86 0.58 1.67 0.18 -0.91 -0.18 -0.91 -0.18	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.041 0.941 0.952 0.552	-1.3026819425328409578 -1.15291993209039156087 2522557160875146384335278951454680892149926621246100235721387 6592335527731798297613717961022886575931 -1.488543	.81843 1.0742 2.5899 1.0022 1.2666 1.2698 .62928 .16506 .39625 .55785 .38908 .81137 01857 .43400 1.4132 1.3392 1.4224 1.2646 .69508 .54922 1.5492 1
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIGRE	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756 474383 4745828 .277382	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2283402 .2239132 .511194 .5015393 .5453116 .3278906 .3486541 .3278906 .3486541 .3278906 .3486541 .522264 .517336 .5795444	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.06 -0.60 0.67 0.86 0.50 0.50 0.18 -0.18 -0.18 -0.19 -0.18 -0.19 -0.18	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.951 0.953 0.352 0.620 0.017 0.096 0.854 0.359 0.632	-1.3026819425328409578 -1.15291993209039156087 2522557166875146384335278951454680892149926621246100235721387 6592335527731798297613717961022886575931498002 -1.4885438585041	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16596 .39625 .55785 .38905 .8113701857 .43407 .30558 1.3446 1.4132 1.3392 1.4224 1.264 .69508 .54923 .53937 1.4132
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UGRE L1.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756 4745828 .277382	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .278453 .2305148 .229746 .3316484 .2239402 .2239132 .511194 .5015393 .5453116 .3278906 .3486541 .324244 .522264 .517336 .5795444	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.66 -0.60 0.67 0.86 0.50 2.38 1.67 0.18 -0.91 -0.92 0.48	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.1625 0.785 0.116 0.953 0.552 0.503 0.391 0.620 0.017 0.096 0.007	-1.3026819425328489578 -1.15291993209039156087 2522557160875146384335278951464680892149926621246100235721387 65923355277317982976137179610728865759311498002 -1.4885438585041	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16506 .39625 .55785 .38908 .8113701857 .30558 1.3446 1.4132 1.3392 1.4224 .264 .69508 .53937 1.4132
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIGRE L1. L2.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756 474383 4745828 .277382	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2239132 .511194 .5015393 .5453116 .3278906 .3486541 .324244 .517336 .5795444	0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.27 1.57 -2.04 -0.60 0.67 0.60 2.38 1.67 0.18 0.91 -0.92 0.48	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.116 0.953 0.552 0.552 0.634 0.364 0.364 0.364 0.364 0.364	-1.3026819425328 -4809578 -1.152919932090391560872522557160875146384335278951454680892149926621246100235721387659233552773179829761022886575931 -1.498002 -1.488543858504101180230502245	.81843 1.0742 2.5899 1.0022 1.2666 1.2698 .62928 .16506 .39628 .55785 .38962 .43407 .30558 1.3444 1.4132 1.4242 1.264 .69508 .54923 .53937 1.4132
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIGRE L1. L2. L3.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756 4745828 .277382	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2233162 .2239132 .511194 .5615393 .5453116 .3278906 .3486541 .3278906 .3496	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.06 0.67 0.86 0.50 0.50 0.67 0.86 0.50 0.84 -1.23 -0.25 -0.49 -0.27 -0.27 -0.20 -0.60 -0.60 0.67 0.86 0.50 0.84 -0.86 0.50 0.86 0.50 0.86 0.50 0.86 0.50 0.86 0.50 0.86 0.50 0.86 0.50 0.86 0.50 0.86 0.50 0.86 0.	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.951 0.953 0.552 0.503 0.391 0.620 0.017 0.996 0.854 0.364 0.359 0.632	-1.3026819425328 -4809578 -1.15291993209039156087 2522557166875146384335278851454680892149926621246100235721387 6592335527731798297613717961022886575931 -1.498002 -1.4885438585041 .011802305022452295463	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16566 .39625 .55785 .38905 .8113701857 .43407 .30558 1.3446 1.4132 1.3392 1.4224 1.264 .69508 .55933 1.4132
L3. L4. L5. L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIGRE L1. L2. L3. L4. L5. L6. L7. L8. L9.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756 474383 4745828 .277382	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .278453 .2395148 .229746 .3316484 .2283402 .2239132 .511194 .5015393 .5453116 .3278996 .3486541 .324244 .517336 .5795444	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.66 -0.66 0.50 2.38 1.67 0.18 -0.92 0.48 -0.92 0.48	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.041 0.953 0.552 0.633 0.391 0.620 0.017 0.096 0.854 0.359 0.632	-1.3026819425328 -4809578 -1.15291993209039156087 2522557160875146384335278951454680892149926621246100235721387 6592335527731798297610228865759311498002 -1.4885438585041 .0118023050224522954630597122	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16506 .39625 .55785 .38909 .8113701857 .43407 .30558 1.3446 1.4132 1.3392 1.4223 1.4232 .30258 .33937 1.4132
L3.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756 474383 4745828 .277382	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2239132 .511194 .5015393 .5453116 .3278906 .3486541 .324244 .522264 .517336 .5795444	0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.62 -0.60 0.67 0.66 0.50 2.38 1.67 0.86 0.50 2.38 1.67 0.48 -0.91 -0.92 0.48	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.116 0.953 0.552 0.552 0.634 0.364 0.364 0.364 0.364 0.364 0.363 0.391	-1.3026819425328 -4809578 -1.152919932090391560872522557160875146384335278951454680892149926621246100235721387659233552773179829761022886575931 -1.498002 -1.48854385850410118023059245229546305971224059803	.81843 1.0742 2.5899 1.0022 1.2668 1.2698 .62928 .16506 .39625 .55785 .38905 .81137 -01857 .43446 1.4132 1.4224 1.264 .69508 .54923 .53937 1.4132
L3.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756 474383 4745828 .277382 .1571945 .0921769 .3679335 .0844737 2649098 2297802	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2239132 .511194 .5615393 .5453116 .3278966 .3486541 .324244 .517336 .5795444	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.06 0.67 0.86 0.59 2.38 1.67 0.18 -0.91 -0.92 0.48 -0.93 -0.94 -0.95	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.953 0.552 0.503 0.391 0.620 0.017 0.996 0.854 0.359 0.632	-1.3026819425328 -4809578 -1.15291993209039156087 2522557160875146384335278951454680892149926621246100235721387 659233552773179829761022886575931 -1.498002 -1.4885438585041 .01180230502245295463059712240598033767081	.81843 1.0742 2.5899 1.0022 1.2666 1.2698 .62928 .16506 .39625 .55785 .38908 .81133 01857 .43400 1.4132 1.3399 1.4224 1.264 .554923 .53937 1.4132
L3.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756 474383 4745828 .277382	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2395148 .229746 .2316484 .2283402 .2239132 .511194 .5015393 .5453116 .3278906 .3486541 .3278906 .3486541 .3278906 .3486541 .3278906 .3486541 .3278906 .3486541 .3278906 .3486541 .3278906 .3486541 .3278906 .3486541 .3278906 .3486541 .3278906 .3486541 .3278906 .3486541 .3278906 .3486541 .3278906 .3496551 .0779667 .0735656 .0719761 .0749646 .0575213	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 -1.57 -2.04 -0.66 -0.66 0.50 2.38 1.67 0.18 -0.92 0.48 2.12 1.23 1.57 -1.20 1.57 -1.20 -1.	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.041 0.955 0.503 0.391 0.620 0.017 0.096 0.854 0.359 0.632	-1.3026819425328409578 -1.15291993209039156087 2522557160875146384335278951454680892149926621246100235721387 6592335527731798297613717961022886575931798297114885438585041 .0118023050224522954630597122405908137670810473334	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16506 .39625 .55788 .38905 .43407 .30558 1.3446 1.4132 1.3392 1.4224 1.264 .69508 .54923 .53937 1.4132 .30258 .23457 .50632 .22865 -12383 .08285
L3.	2421233 .0658563 1.535551 0753442 .1673944 .177107 .1885162 2755098 0591905 .1112898 062746 .3610789 4725986 0134637 1332769 .3426888 .430226 .2704935 .7798333 .5810609 .0595756 474383 4745828 .277382 .1571945 .0921769 .3679335 .0844737 2649098 2297802	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2239132 .511194 .5615393 .5453116 .3278966 .3486541 .324244 .517336 .5795444	-0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.49 -0.27 1.57 -2.04 -0.06 0.67 0.86 0.59 2.38 1.67 0.18 -0.91 -0.92 0.48 -0.93 -0.94 -0.95	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.785 0.116 0.953 0.552 0.503 0.391 0.620 0.017 0.996 0.854 0.359 0.632	-1.3026819425328 -4809578 -1.15291993209039156087 2522557160875146384335278951454680892149926621246100235721387 659233552773179829761022886575931 -1.498002 -1.4885438585041 .01180230502245295463059712240598033767081	.81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16506 .399625 .55785 .81137 -01857 .43447 .30558 1.3446 1.4132 1.4224 1.264 .69508 .54923 .53937 1.4132 .30258 .23457 .50632 .22865 -12383 -08285 .17814 .31403
L3.	2421233 .0658563 .1.5355510753442 .1673944 .177107 .188516227550980591905 .1112898062746 .3610789472598601346371332769 .3426888 .430226 .2704935 .7798333 .5810609 .05957564743834745828 .277382 .1571945 .0921769 .367933726490982297802 .0654062 .2031072	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2239132 .511194 .5015393 .5453116 .3278906 .3486541 .324244 .522264 .517336 .5795444	0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.62 -0.60 0.67 0.66 0.50 2.38 1.67 0.18 -0.91 -0.92 0.48 2.12 1.27 5.21 1.15 -3.68 -3.07 1.15 -3.68 -3.07 1.15 -3.68 -3.07 1.15 -3.68 -3.07 1.15 -3.68 -3.59	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.116 0.953 0.552 0.583 0.391 0.620 0.017 0.096 0.854 0.364 0.359 0.632 0.034 0.205 0.000 0.025 0.256 0.000	-1.3026819425324809578 -1.1529199320903915608725225571608751463843352789514546808921499266212461002357213876592335527731798297613717961022886575931 -1.498002 -1.4885438585041011802305022452295463059712240598033767080104733340921766	.81843 1.0742 2.5899 1.0022 1.2668 1.2698 .62928 .16506 .39625 .55785 .38965 .81137 -01857 .43447 .30558 1.34446 1.4132 1.4224 1.264 .69508 .54923 .53937 1.4132
L3.	2421233 .0658563 .1.5355510753442 .1673944 .177107 .188516227550980591905 .1112898062746 .3610789472598601346371332769 .3426888 .430226 .2704935 .7798333 .5810609 .05957564743834745828 .277382 .1571945 .0921769 .367933726490982297802 .0654062 .2031072	.5411108 .5144937 .5379654 .5497934 .5609719 .5575182 .2248874 .2247884 .2323756 .2278453 .2305148 .229746 .2316484 .2239132 .511194 .5015393 .5453116 .3278906 .3486541 .324244 .522264 .517336 .5795444	0.45 0.13 2.85 -0.14 0.30 0.32 0.84 -1.23 -0.25 0.62 -0.60 0.67 0.66 0.50 2.38 1.67 0.18 -0.91 -0.92 0.48 2.12 1.27 5.21 1.15 -3.68 -3.07 1.15 -3.68 -3.07 1.15 -3.68 -3.07 1.15 -3.68 -3.07 1.15 -3.68 -3.59	0.655 0.898 0.004 0.891 0.765 0.751 0.402 0.220 0.799 0.625 0.116 0.953 0.552 0.583 0.391 0.620 0.017 0.096 0.854 0.364 0.359 0.632 0.034 0.205 0.000 0.025 0.256 0.000	-1.3026819425324809578 -1.1529199320903915608725225571608751463843352789514546808921499266212461002357213876592335527731798297613717961022886575931 -1.498002 -1.4885438585041011802305022452295463059712240598033767080104733340921766	.43686 .81843 1.0742 2.5897 1.0022 1.2668 1.2698 .62928 .16566 .39625 .55785 .38905 .38905 .43440 .30558 1.3446 1.4132 1.3392 1.4224 1.264 6.9508 .54923 .53937 1.4132

VAR 12. Greece – VAR model with 9 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• HUNGARY

Sample: 2008m5 th	ru 2022m12	2		Number of	obs	_	176
Log likelihood =	869.6439)		AIC		_	-8.916408
FPE =	9.26e-11	L		HQIC		-	-8.295361
Det(Sigma_ml) =	3.51e-11	L		SBIC		-	-7.385208
Equation	Parms	RMSE	R-sq	chi2	P>ch12		
dUnemploymentr~e	17	.159948	0.1729	36.78528	0.0022		
dLTGBY10Y	17	.358403	0.4002	117.4137	0.0000		
Inflation	17	.457694	0.5156	187.3278	0.0000		
UIHUN	17	4.24651	0.3409	91.0329	0.0000		
dHUFEUR	17	.000076	0.1448	29.81084	0.0190		

Inflation UIHUN dHUFEUR	17 4	457694 .24651 000076	0.5156 0.3409 0.1448	91.	0329	0.0000 0.0000 0.0190	
	Coefficie	nt Std	ı err.	z	P> z	[95% conf	. interval]
dUnemploymentrate dUnemploymentrate							
L1. L2. L3.	.116137 .266510 .10666	4 .07	61195 36637 77259	1.53 3.62 1.37	0.127 0.006 0.176	.1221323	.2653289 4108885 259006
dLTGBY10Y L1. L2. L3.	.006105 007453 .000443	2 .03	48079 50833 14165	0.18 -0.21 0.01	0.863 0.833 0.989	- 0762152	.0743278 .0613087 .0620186
Inflation L1. L2. L3.	025207 .012927 .008170	6 .02	66764 63876 66433	-0.94 0.49 0.31	0.345 0.624 0.759	0387911	.027077 .0646463 .0603902
UIHUN L1. L2. L3.	004094 .003412 .001261	7 0	028227 002755 027469	-1.45 1.24 0.46	0.147 0.215 0.646	001987	.0014379 .0088123 .0066453
dHUFEUR L1. L2. L3.	-54.1014 -187.724 -97.3909	9 173	0907 7906	-0.32 -1.08 -0.55	0.746 0.286 0.584	-528 3481	273.3902 152.8984 251.2987
UIGER _cons	.011819 066751	5 .01	.18731 124099	1.00 -1.57	0.326 0.115	0114514	0350905 01637
dLTGBY10Y							
dUnemploymentrate L1. L2. L3.	12205 - 179758 - 163677	4 .16	05644 50615 74164	0.72 -1.09 -0.94	0 474 0 276 0 347	- 503273	456357 1437562 1776775
dLTGBY10Y L1. L2. L3.	.02971 242322 .129527	2 .07	79957 786127 703963	0.38 -3.08 1.84	0.703 0.002 0.066	- 3964003	.1825858 0882442 .2675013
Inflation L1. L2. L3.	.243008 090389 18390	4 .05	59775 91278 97008	4.07 -1.53 -3.08	0.006 0.126 0.002	- 2062778	.3601656 .0254991 0668926
UIHUN L1. L2. L3.	00728 004378 001913	1 .00	006325 061732 061551	1.15 0.71 0.31	0.249 0.478 0.756	0077211	.0196858 .0164774 .0139777
dHUFEUR L1. L2. L3.	-1984.41 -184.025 -444.494	8 389	4076 4204 6424	-5.30 -0.47 -1.12	0.006 0.637 0.265	-947.2758	-1250.585 579.2242 336.8302
UIGER	062765 - 389694		66047	2.36 -4.10	0.018	.0106216	11491
Inflation	303034		.50257				2034330
dUnemploymentrate L1. L2. L3.	.378559 .405815 .098027	8 .21	.78172 .07899 !24141	1.74 1.93 0.44	0.082 0.054 0.659	0073248	.8054731 .8189563 .5339511
dLTGBY10Y L1. L2. L3.	.030704 .081160 .236219	3 .10	96035 903914 198988	0.31 0.81 2.63	0.758 0.419 0.009	1156032	.2259241 .2779239 .4124182
Inflation L1 L2 L3	.23395 .213318 003572	7 .07	76335 755085 762402	3.06 2.83 -0.05	0.002 0.005 0.963	.0653248	.3835669 .3613127 .1458551
UIHUN L1 L2 L3	.0116 .009340 013763	2 .00	180773 178834 178603	1.44 1.18 -1.75	0.156 0.236 0.086	006111	.0274613 .0247914 .0016425
dHUFEUR L1. L2. L3.	-139.958 -397.099 585.08	6 497	3.1329 7.3048 0.0816	-0.29 -0.80 1.15	0.776 0.425 0.256	-1371.799	797 1651 577 5998 1582 869
UIGER _cons	.119179	7 .03 5 .12	39752 13566	3.51 -2.87	0.006		.1857699 109874
UIHUN dUnemploymentrate							
L1. L2. L3. dLTGBY10Y	-1.00658 797406 2.17338	5 1.9	020917 055716 063567	-0.50 -0.41 1.05	0.618 0.683 0.292	-4.967512 -4.63054 -1.871133	2.954336 3.035727 6.217899
L1. L2. L3.	625684 -1.27859 1.61092	7 93	41256 14355 40845	-0.68 -1.37 1.93	0 498 0 176 0 053	-3.104177	1 185568 5469832 3 2457
Inflation L1. L2. L3.	806036 1.26987 328082	1 .70	082393 005708 073594	-1.14 1.81 -0.46	0 255 0 076 0 643	- 1032226	.5820866 2.642965 1.058316
UIHUN L1. L2. L3.	.167354 .037094 .113888	1 .07	49418 31426 072928	2.23 0.51 1.56	0.026 0.612 0.118	- 1062628	3142377 180451 2568246
dHUFEUR L1. L2.	-650.848 -3909.59	3 461	6.135 4.013	-0.15 -0.85 0.78	0.883 0.397		8043.817 5133.706 12928.05
L3. UIGER CONS	3670.59 1.32620 195550	4 .31	.3.279 .52232 .25951	0.78 4.21 -0.17	0.437 0.006 0.862	.7083783	12928.05 1.94403 2.011273
dHUFEUR	195550	, 1.1		-0.17	0.862	-2.462374	2.0112/3
dUnemploymentrate L1. L2. L3.	.000027 000079 .000030	9 .00	000364 000352 000371	0.76 -2.27 0.81	0.445 0.023 0.417	0001489	000099 - 0000109 0001029
dLTGBY10Y L1. L2. L3.	.000049 -9.16e-0	6 .00	000166 000168 000015	2.98 -0.55 1.69	0.003 0.585 0.093	- 000042	.0000821 .0000237 .0000548
Inflation L1. L2. L3.	-9.60e-0 -3.37e-0	6 .00	000127 000126 000127	-0.75 -0.27 2.55	0.451 0.789 0.011	0000281	.0000154 .0000213 .0000574
UIHUN L1. L2.	-1.76e-0 8.78e-0	7 1.3	5e-06 2e-06	-1.31 0.67	0.192	-1.70e-06	8.82e-07 3.46e-06
L3. dHUFEUR L1.	1.18e-0	7 1.3	98213	0.09	0.928	-2.45e-06 0792708	2.69e-06 .233623
L2. L3.	.209373 028778	9 .0	30219 84988	2.52 -0.34	0.012 0.73	1953523	.3720937 .1377945
UIGER _cons	-9.92e-0 .00003		67e-06 100203	-1.75 1.73	0.086	000021 -4.75e-06	1.20e-06 .0000747

VAR 13. Hungary – VAR model with 3 lags for unemployment rate, inflation, long term government bond 10 years, the country's currency over euro (HUF/EUR) and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• IRELAND

Sample: 2008m9	th	ru 2022m12	Number of obs	=	172
Log likelihood	=	-425.5313	AIC	=	6.343387
FPE	=	.0067805	HQIC	=	7.234331
Det(Sigma_ml)	=	.0016558	SBIC	=	8.539313

Equation	Parms	RMSE	R-sq	chi2	P>chi2
dUnemploymentr~e	30	.21056	0.5876	245.1184	0.0000
dLTGBY10Y	30	.35941	0.3039	75 10764	0.0000
Inflation	30	.39575	0.4761	156.3326	0.0000
dUIIRL	30	2.05807	0.4893	164.7763	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf.	interval
dUnemploymentrate						
dUnemploymentrate						
L1.	.4993705	0723174	6.91	0.000	.357631	.6411
L2. L3.	0498306 - 197855	0783762 0777547	0.64 -2.54	0.525 0.011	- 1037839 - 3502514	203445
L4.	0994988	0789152	1.26	0.207	0551722	254169
L5.	- 0084814	0774134	-0.11	0.913	- 160209	.143246
L6.	0664439	0761473	0.87	0.383	082802	215689
L7.	.1819087	.0676059	2.69	0.007	.0494036	.314413
dLTGBY10Y						
L1.	0488496	.0439701	-1.11	0.267	- 1350293	.037330
L2.	.0763546	.0437071	1.75	0.081	0093098	.162019
L3.	0079601	.0431308	-0.18	0.854	092495	.076574
L4.	0003879	.0439414	-0.01	0.993	0865115	.085735
L5.	.131898	.0439377	3.00	0.003	.0457817	218014
L6.	- 1387054	.0457116	-3.03	0.002	- 2282984	049112
L7.	.098994	.0442488	2.24	0.025	.0122679	.185720
Inflation L1.	0290946	.0397405	-0.73	0.464	1069847	.048795
L2.	0876481	0397403	-2.20	0.464	1656782	009617
L3.	039759	0410694	0.97	0.333	0407355	120253
L4.	- 0193565	.0417329	-0.46	0.643	1011514	.062438
L5.	.0298147	.0402595	0.74	0.459	0490925	10872
L6.	0624987	.040339	-1.55	0.121	1415616	.016564
L7.	.0705629	.0381473	1.85	0.064	0042044	.145330
dUIIRL						
L1.	0105621	.0078138	-1.35	0.176	0258769	.004752
L2.	0378392	.0094948	-3.99	0.000	- 0564486	019229
L3.	0342457	.0118462	-2.89	0.004	0574637	011027
L4.	0318801	.0121269	-2.63	0.009	0556484	008111
L5.	0060512	.0121084	-0.50	0.617	0297832	.017680
L6. L7.	006837 .0151317	.0105311 .0087613	-0.65 1.73	0.516 0.084	0274776 0020402	.013803 .032303
UIGER	.0276005	.0140362	1.97	0.049	.0000901	.055110
_cons	- 110179	.0591867	-1.86	0.063	- 2261829	.005824
dLTGBY10Y						
dUnemploymentrate						
L1.	.1226477	.1234402	0.99	0.320	1192905	.36458
L2.	0871797	.1337821	-0.65	0.515	3493877	.175028
L3.	0462544	.1327211	-0.35	0.727	306383	.213874
L4.	0410279	.1347021	-0.30	0.761	3050392	.222983
L5.	.0095218	.1321386	0.07	0.943	- 2494652	268508
L6.	.2475381	1299774	1.90	0.057	0072131	.502289
L7.	1446696	.115398	-1.25	0.210	3708454	.081506
dLTGBY10Y						
L1.	.1996119	.0750535	2.66	0.008	.0525098	.34671
L2.	.053331	.0746047	0.71	0.475	0928914	.199553
L3.	1340107	.073621	-1.82	0.069	2783052	.010283
L4.	.1121194	.0750045	1.49	0.135	0348868	.259125
L5.	.1763473 .0005975	0749982 078026	2.35 0.01	0.019	.0293536 - 1523307	.32334
L6. L7.	0126399	0755293	-0.17	0.994 0.867	1606745	.153525
Inflation						
L1.	0299804	.067834	-0.44	0.659	1629326	.102971
L2.	0814864	.067956	-1.20	0.230	2146778	.05170
L3.	.2077029	.0701022	2.96	0.003	.0703052	.345100
L4.	0398666	.0712347	-0.56	0.576 0.030	- 1794841 - 28405	.099756
L5. L6.	- 1493615 - 0987481	.0687199 .0688555	-2.17 -1.43	0.030	- 2337024	- 01467 036206
L7.	.1501558	0651145	2.31	0.021	0225339	277777
dUIIRL						
L1.	0063435	.0133376	-0.48	0.634	0324846	.019797
L2.	0289671	.0162068	-1.79	0.074	0607318	002797
L3.	008767	0202205	0.43	0 665	- 0308644	048398
L4.	- 0224184	0206997	-1.08	0.279	0629891	018152
L5.	- 0124386	0206681	-0.60	0.547	- 0529472	028076
L6.	0249464	0179758	-1.39	0.165	0601782	.010285
L7.	.0129687	.0149549	0.87	0.386	- 0163423	.042279
UIGER	.0728834	.0239586	3.04	0.002	.0259253	.119841
	- 3074029	1010271				
_cons			-3.04	0.002	5054124	- 109393

	Ī					
Inflation						
dUnemploymentrate						
L1.	3428276	.135921	-2.52	0.012	6092279	0764274
L2.	0390411	1473086	-0.27	0.791	3277606	2496784
L3.	0095091	1461404	-0.07	0.948	- 295939	2769208
L4.	1338182	.1483216	-0.90	0.367	- 4245233	.1568868
L5.	04235	145499	0.29	0.771	- 2428228	.3275227
L6.	- 1874107	1431193	-1.31	0.190	4679193	0930979
L7.	1740685	.1270657	1.37	0.171	0749757	.4231126
L/.	.1740005	.12/005/	1.57	0.1/1	0743737	.4231120
dLTGBY10Y						
L1.	0436609	.082642	-0.53	0.597	2056363	.1183145
L2.	.0106938	.0821478	0.13	0.896	- 150313	.1717006
L3.	.1868659	0810647	2.31	0.021	.027982	.3457498
L4.	.1359874	.0825881	1.65	0.100	- 0258823	.2978572
L5.	0027344	0825811	-0.03	0.974	- 1645905	.1591216
L6.	0842111	.0859151	-0.98	0.327	2526017	.0841794
L7.	0935057	.0831659	-1.12	0.261	2565079	.0694965
	1000000					
Inflation						
L1.	.2893558	.0746926	3.87	0.000	.142961	.4357505
L2.	.0820502	074827	1.10	0.273	064608	.2287084
L3.	0422512	.0771901	-0.55	0.584	- 193541	.1090386
L4.	0182649	0784372	-0.23	0.816	- 1719989	.1354691
L5.	1474642	075668	-1.95	0.051	2957708	.0008425
L6.	.2531794	0758173	3.34	0.001	.1045801	.4017787
L7.	1960422	.0716981	-2.73	0.001	3365678	0555165
L/ •	. 2505722	, 20302	-1/3	-1000	.5505070	.0555105
dUIIRL						
L1.	.063299	.0146861	4.31	0.000	.0345147	.0920832
L2.	.049175	.0178455	2.76	0.006	.0141985	.0841514
L3.	- 0251244	022265	-1.13	0.259	0687629	.0185141
L4.	0067458	0227926	-0.30	0.767	0514186	.0379269
L5.	0046615	0227578	-0.20	0.838	049266	.0399429
L6.	0009834	0197933	-0.05	0.960	0397775	.0378107
L7.	0139379	016467	-0.85	0.397	0462125	.0183368
UIGER	.0690541	.0263811	2.62	0.009	.0173481	.12076
_cons	- 2480069	.1112418	-2.23	0.026	4660369	0299769
dUIIRL						
dUnemploymentrate						
L1.	-1.119357	.7068476	-1.58	0.113	-2.504753	.2660391
L2.	.9643417	.7660679	1.26	0.208	5371238	2.465807
L3.	9780209	7599928	-1.29	0.198	-2.467579	.5115376
L4.	.0787449	.7713362	0.10	0.919	-1.433046	1.590536
L5.	6752031	.7566573	-0.89	0.372	-2.158224	.8078179
L6.	.4704968	.7442817	0.63	0.527	9882685	1.929262
L7.	.1192488	.6607962	0.18	0.857	-1.175888	1.414385
dLTGBY10Y						
L1.	.0109288	.429774	0.03	0.980	8314128	.8532704
L2.	- 3221203	4272041	-0.75	0.451	-1.159425	.5151843
L3.	.3089876	.4215712	0.73	0.464	5172767	1.135252
L4.	.2992774	4294938	0.70	0.486	542515	1.14107
L5.	.485086	4294573	1.13	0.259	3566348	1.326807
L6.	4869816	4467956	-1.09	0.276	-1.362685	.3887217
L7.	.1860199	.4324985	0.43	0.667	6616616	1.033701
Inflation						
L1.	1942012	.3884334	-0.50	0.617	9555168	.5671144
L2.	- 2609648	.3891324	-0.67	0.502	-1.02365	.5017206
L3.	.9940302	.4014217	2.48	0.013	.2072581	1.780802
L4.	8483257	407907	-2.08	0.038	-1.647809	0488428
L5.	.6254416	.3935064	1.59	0.112	1458166	1.3967
L6.	5890439	.3942827	-1.49	0.135	-1.361824	.1837361
L7.	085851	.3728608	-0.23	0.818	8166448	.6449428
dUIIRL						
L1.	6575701	.0763741	-8.61	0.000	8072605	5078797
L2.	8010747	.092804	-8.63	0.000	9829673	6191822
L3.	4581086	.1157874	-3.96	0.000	6850477	2311696
L4.	503283	.1185315	-4.25	0.000	7356005	2709655
L5.	2798933	.1183503	-2.36	0.018	5118556	0479309
L6.	2190413	.1029335	-2.13	0.033	4207872	0172954
L7.	2084567	.0856353	-2.43	0.015	3762988	0406147
UIGER	.412303	.1371929	3.01	0.003	1434098	.6811961
_cons	-1.402144	.5785054	-2.42	0.015	-2.535993	2682941

VAR 14. Ireland – VAR model with 7 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• ITALY

Sample: 2008m4	thi	ru 2022m12	Number of obs	=	177
Log likelihood	=	-353.8247	AIC	=	4.449996
FPE	=	.0010067	HQIC	=	4.741098
Det(Sigma_ml)	=	.0006404	SBIC	=	5.16777

Equation	Parms	KMSE	K-sq	cn12	P>cn12
dUnemploymentr~e	10	.294295	0.0483	8.976487	0.4394
dLTGBY10Y	10	267376	0.1185	23.79908	0.0046
Inflation	10	.344298	0.2551	60.6184	0.0000
UIITA	10	1.06504	0.5268	197.0317	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
dUnemploymentrate dUnemploymentrate						
L1.	.0146179	.075168	0.19	0.846	1327087	.1619445
L2.	0467305	.0748116	-0.62	0.532	1933585	.0998975
dLTGBY10Y						
L1.	089969	.0825181	-1.09	0.276	2517015	.0717635
L2.	.0589567	.0861835	0.68	0.494	1099598	.2278732
Inflation						
L1.	.0486326	0640894	0.76	0.448	0769802	1742455
L2.	064071	.060452	-1.06	0.289	1825548	.0544129
UIITA						
L1.	0412703	.0198059	-2.08	0.037	0800893	0024514
L2.	.0114383	.0205308	0.56	0.577	0288013	.051678
UIGER	.0010362	.0220736	0.05	0.963	- 0422273	.0442997
_cons	.1021423	.0783303	1.30	0.192	0513822	.2556669
dLTGBY10Y						
dUnemploymentrate						
L1.	0465423	.0682924	-0.68	0.496	- 180393	.0873083
L2.	.053915	.0679685	0.79	0.428	0793009	.1871309
dLTGBY10Y						
L1.	.2293382	.0749702	3.06	0.002	.0823993	.376277
L2.	0854668	.0783003	-1.09	0.275	2389325	.0679989
Inflation						
L1.	.00586	.0582271	0.10	0.920	1082631	.119983
L2.	.0449866	.0549225	0.82	0.413	0626595	.1526327
ATIIU						
L1.	- 0184269 - 0056649	.0179943	-1.02	0.306	0536951	.0168412
L2.	.0056649	.0186528	0.30	0.761	030894	.0422238
UIGER	.0438454	.0200546	2.19	0.029	.0045392	.0831516
_cons	1540854	.0711654	-2.17	0.030	2935671	0146038
Inflation						
dUnemploymentrate L1.	.0440539	.0879398	0.50	0.616	1283049	.2164127
L2.	.0173461	.0875227	0.30	0.843	- 1541953	1888875
dLTGBY10Y L1.	.3554595	.0965387	3.68	0.000	.1662472	.5446718
L2.	0194364	.1008268	-0.19	0.847	- 2170534	1781806
Inflation	0140771	0740700	0.20	0.842	1210706	1610330
L1. L2.	0149771 209857	.0749788 .0707234	0.20 2.97	0.842	- 1319786 0712417	1619328 3484723
	1205057	10,0,25		0.005	,	15404725
UIITA						
L1 L2	0005984	0231711 0240192	0.03 -0.09	0.979 0.930	- 0448162 - 0491879	046013 0449655
UIGER	.0775269	.0258242	3.00	0.003	.0269125	.1281413
_cons	2027543	.0916393	-2.21	0.027	382364	0231445
UIITA						
dUnemploymentrate						
L1 L2	- 3475386 - 3980905	2720294 2707394	-1.28 -1.47	0.201 0.141	- 8807065 - 92873	1856293 132549
LZ.	3980903	.2707394	-1.47	0.141	920/3	.132349
dLTGBY10Y						
L1.	.5198051	.2986289	1.74	0.082	0654969	1.105107
L2.	6832747	.3118938	-2.19	0.028	-1.294575	0719741
Inflation						
L1.	042604	.2319363	-0.18	0.854	4971908	.4119829
L2.	.1874765	.218773	0.86	0.391	2413107	.6162637
UIITA						
L1.	.4322334	.0716767	6.03	0.000	.2917497	.5727171
L2.	.1938385	.0743	2.61	0.009	.0482133	.3394638
UIGER	.1895749	.0798834	2.37	0.018	.0330063	.3461435
_cons	.391367	2834735	1 38	0.167	1642308	9469647
	I .					

VAR 15. Italy – VAR model with 2 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• LATVIA

Sample: 2008m4	thru 2022m12	Number of obs	=	177
Log likelihood	= -882.2128	AIC	=	10.42048
FPE	= .3943394	HQIC	=	10.71158
Det(Sigma_ml)	= 2508243	SBIC	=	11.13826

Equation	Parms	RMSE	R-sq	chi2	P>chi2	
dUnemploymentr~e	10	.221539	0.6837	382.5177	0.0000	
dLTGBY10Y	10	.396478	0.2330	53.75558	0.0000	
Inflation	10	.569509	0.3823	109.5462	0.0000	
UILVA	10	11.6718	0.1468	30.44449	0.0004	

	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
dUnemploymentrate						
dUnemploymentrate						
L1.	.9834738	.0738798	13.31	0.000	.838672	1.128276
L2.	2893404	.0747374	-3.87	0.000	435823	1428579
dLTGBY10Y						
L1.	.1030275	.0413185	2.49	0.013	.0220447	.1840102
L2.	.0336829	.0409548	0.82	0.411	0465871	1139529
Inflation					0.435005	
L1. L2.	0145979 00062	.0296885 .0286234	0.49 0.02	0.623 0.983	0435905 0554809	.0727862 .0567208
	100002	10200254	0102	01303	-10554005	10307200
UILVA						
L1.	.0007296	.0014324	0.51	0.611	0020778	.003537
L2.	0000945	.0013962	-0.07	0.946	0028309	.002642
UIGER	0127265	.0139708	-0.91	0.362	0401088	.0146558
_cons	.0418445	057789	0.72	0.469	0714199	1551088
dLTGBY10Y						
dUnemploymentrate L1.	.2367741	.1322189	1.79	0.073	0223703	.4959185
L1.	1078177	.1322189	0.81	0.420	0223703	.3699701
dLTGBY10Y						
L1.	.3090605	.0739456	4.18	0.000	.1641298	.4539913
L2.	1457654	.0732948	-1.99	0.047	2894206	0021102
Inflation						
L1.	.1061903	.053132	2.00	0.046	.0020535	.210327
L2.	0330533	.0512259	-0.65	0.519	1334542	.0673476
UILVA		0025624		0.550	0020270	
L1. L2.	.0010964 0029083	0025634 0024987	0.43 -1.16	0.669 0.244	0039278 0078056	0061207 001989
LZ.	0029003	10024907	-1110	0.244	0070030	.001909
UIGER	.0177097	.0250029	0.71	0.479	0312951	.0667144
_cons	0792331	.1034221	-0.77	0.444	2819366	.1234705
Inflation						
dUnemploymentrate						
L1	2695797	.1899221	-1.42	0.156	6418201	.1026607
L2.	0789258	.1921266	-0.41	0.681	455487	.2976354
dLTGBY10Y						
L1.	.1452431	.106217	1.37	0.171	0629385	.3534246
L2.	04268	1052822	0.41	0.685	- 1636693	2490294
Inflation						
L1.	.4154517	.0763199	5.44	0.000	.2658674	.5650359
L2.	.0455231	.073582	0.62	0.536	0986949	.1897411
UILVA						
L1.	0004863	.0036822	-0.13	0.895	0077033	.0067306
L2.	0031082	.0035891	-0.87	0.386	0101428	.0039264
UIGER	.1287487 3536716	0359147 1485576	3.58 -2.38	0.000 0.017	.0583572 6448392	1991401 - 062504
_cons	3330710	.1403370	-2.50	0.017	0440392	002304
UILVA						
dUnemploymentrate						
L1.	-2.174078	3.892367	-0.56	0.576	-9.802978	5.454821
L2.	-2.664887	3.937548	-0.68	0.499	-10.38234	5.052565
dLTGBY10Y						
L1.	1754105	2.17687	-0.08	0.936	-4.441998	4.091177
L2.	-2.020926	2.157712	-0.94	0.349	-6.249963	2.208111
Inflation	2 305576	1 564443		0 110	7600000	E 2740 ·
L1. L2.	2.305578	1.564142 1.508029	1.47 -0.19	0.140 0.852	- 7600826 -3 237772	5.37124 2.673593
LZ.	12320037	11300023	0.13	31332	3123///2	-10/3393
UILVA						
L1.	.0552785	.0754646	0.73	0.464	0926294	.2031865
L2.	- 1720486	.0735579	-2.34	0.019	3162194	0278778
HICER	2 220202	7260552	2 16	0 003	.8857503	2 771022
UIGER _cons	2.328392 6.250529	7360552 3 044621	3.16 2.05	0.002 0.040	.8857503 .2831807	3.771033 12.21788
	1					

VAR 16. Latvia – VAR model with 2 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• LITHUANIA

Sample: 2008m5	thr	2022m12			Number of	obs	=	176
Log likelihood	=	-876.19			AIC		=	10.59307
FPE	=	.4690283			HQIC		=	11.00223
<pre>Det(Sigma_ml)</pre>	=	2478818			SBIC		=	11.60186
Equation		Parms	RMSE	R-sq	chi2	P>chi2		

Equation	rarms	KHIJE	K-Sq	CHIZ	P>CH12	
dUnemploymentr~e	14	.233866	0.5385	205.3334	0.0000	
dLTGBY10Y	14	.648056	0.1385	28.30465	0.0082	
Inflation	14	-517652	0.4279	131.6623	0.0000	
UILTH	14	7.68765	0.4451	141.1944	0.0000	

	Coefficient	Std. err.	z	P> z	[95% conf	. interval]
dUnemploymentrate						
dUnemploymentrate						
L1.	.6282707 .0342138	.0744367	8.44 0.39	0.000 0.699	-4823775 1389574	.7741639
L2. L3.	.0614613	.0757232	0.39	0.417	- 0869536	.2098761
dLTGBY10Y L1.	.0407399	.0279059	1.46	0.144	0139547	.0954344
L2.	0395787	.0303684	-1.30	0.192	0990995	.0199422
L3.	.07119	.0314804	2.26	0.024	.0094896	.1328904
Inflation						
L1.	0134245 .0367909	0342718 036382	-0.39	0.695	0805959	.053747
L2. L3.	- 0037356	0333062	1.01 -0.11	0.312 0.911	0345165 0690145	1080982 0615432
UILTH L1.	.000023	.0022063	0.01	0.992	0043012	.0043472
L2.	0014364	.0021516	-0.67	0.504	0056534	.0027806
L3.	0006201	.0021475	-0.29	0.773	004829	.0035889
UIGER	0010708	.0184805	-0.06	0.954	0372919	.0351502
_cons	.0322962	.0622478	0.52	0.604	0897072	.1542997
dLTGBY10Y						
dUnemploymentrate						
L1.	1209477	.2062687	-0.59	0.558	5252269	.2833315
L2. L3.	1457109 1232097	.2448352 .2098338	0.60 0.59	0.552 0.557	3341573 2880571	.6255792 .5344765
dLTGBY10Y L1.	.1373372	.077329	1.78	0.076	0142248	.2888991
L2.	.2414631	0841526	2.87	0.004	076527	.4063991
L3.	.0201976	.0872341	0.23	0.817	1507781	.1911732
Inflation						
L1.	.0684842	.0949692	0.72	0.471	117652	.2546204
L2.	.0437533	.1008167	0.43	0.664	1538438 1236255	.2413504
L3.	.0572663	.0922934	0.62	0.535	1236255	.2381581
UILTH						
L1.	.0084919	.0061137 .0059622	1.39 0.47	0.165 0.636	- 0034907 - 0088632	.0204746
L3.	0047462	.0059508	-0.80	0.425	- 0164095	.0069171
UIGER _cons	- 0400737 0150132	.0512105 .1724926	-0.78 0.09	0.434 0.931	- 1404444 - 323066	.0602971 .3530924
						
Inflation dUnemploymentrate						
L1.	.1542111	1647626	0.94	0.349	- 1687177	.4771398
L2. L3.	- 2386571 - 1175055	1955687 1676104	-1.22 -0.70	0.222 0.483	6219646 4460158	-1446505 -2110048
LJ.	1173033	.10/0104	-0.70	0.403	4400136	.2110048
dLTGBY10Y						
L1. L2.	- 1697856 2376402	.0617686 .0672191	-2.75 3.54	0.006 0.000	- 2908497 - 1058931	0487214 3693873
L3.	0675564	.0696805	-0.97	0.332	2041278	069015
* 63						
Inflation L1.	.4679305	.0758592	6.17	0.000	.3192492	.6166117
L2.	1762084	.08053	-2.19	0.029	3340444	0183725
L3.	.168397	.0737218	2.28	0.022	.0239048	.3128891
UILTH						
L1.	0012926	.0048835	-0.26	0.791	0108641	.0082788
L2. L3.	.0056795 0024794	.0047624 .0047533	1.19 -0.52	0.233 0.602	- 0036547 - 0117958	0150137
UIGER	- 123377 - 3826773	0409058 137783	3.02 -2.78	0.003 0.005	.0432032 652727	-2035508 1126275
_cons	3826773	.13//83	-2.78		652727	112627
UILTH						
dUnemploymentrate L1.	-6.350181	2.446889	-2.60	0.009	-11.146	-1.554367
L2.	3.666698	2.90439	1.26	0.207	-2.025801	9.359197
L3.	7979646	2.489181	-0.32	0.749	-5.676669	4.08074
dLTGBY10Y						
L1.	.8220698	.9173247	0.90	0.370	9758535	2.619993
L2.	.6679484	.998271	0.67	0.503	-1.288627	2.624524
L3.	-1.489575	1.034825	-1.44	0.150	-3.517796	.5386458
Inflation						
L1. L2.	6046717 -2 674188	1.126584 1.195951	0.54 -2.24	0.591 0.025	-1.603393 -5.018209	2.812737
L2.	3.300978	1.094843	3 02	0.025	1.155126	5 44683
UILTH L1.	.1881782	.0725246	2.59	0.009	.0460327	.3303238
L2.	2520608	070727	3.56	0.000	.1134384	3906832
L3.	.2710039	.0705918	3.84	0.000	.1326465	.4093613
UIGER	.0679452	.6074911	0.11	0.911	-1.122716	1.258606
_cons	3.837057	2.046215	1.88	0.061	1734513	7.847565

VAR 17. Lithuania – VAR model with 3 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• LUXEMBOURG

		; ;		Number of AIC HQIC SBIC	f obs	= = =	177 8.500718 8.791819 9.218492
Equation	Parms	RMSE	R-sq	chi2	P>chi2		
dUnemploymentr~ dLTGBY10Y Inflation UILUX	e 10 10 10 10	.126133 .167196 .643581 16.1408	0.2274 0.1820 0.1495 0.1068	52.10809 39.38999 31.11799 21.17149	0.0000 0.0000 0.0003 0.0119		

	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
dUnemploymentrate						
dUnemploymentrate						
L1. L2.	453256 0108712	0750068 07531	6.04 0.14	0.000 0.885	.3062453 1367337	.6002667 .1584761
LZ.	.0108/12	.07531	0.14	0.003	130/33/	.1384701
dLTGBY10Y						
L1. L2.	006555	.0570235	-0.11	0.908	- 118319	.105209
LZ.	0079821	.0563438	-0.14	0.887	1184139	.1024498
Inflation						
L1.	0133234	.0147552	-0.90	0.367	- 042243	.0155962
L2.	0179856	.0147713	-1.22	0.223	0469369	.0109656
UILUX						
L1.	0001607	.0005876	-0.27	0.785	0013123	.000991
L2.	0001614	.0005844	-0.28	0.782	0013067	.0009839
UIGER	0003542	.0076952	-0.05	0.963	0154365	.014728
_cons	0130911	0332003	0.39	0.693	0519803	0781625
						
dLTGBY10Y						
dUnemploymentrate L1.	.0496044	.099425	0.50	0.618	1452649	.2444738
L2.	- 0006566	0998268	-0.01	0.995	1963136	1950003
]					
dLTGBY10Y						
L1.	.2460271	.0755872 .0746863	3.25	0.001	.0978788	.3941754
L2.	050441	.0740003	-0.68	0.499	1968234	.0959415
Inflation						
L1.	.0273506	.0195586	1.40	0.162	0109836	.0656848
L2.	.0255203	.0195801	1.30	0.192	0128559	.0638965
UILUX						
L1.	.0005945	.0007789	0.76	0.445	0009321	.002121
L2.	.0000449	.0007746	0.06	0.954	0014732	.0015631
HICED	0202064	0102002	2.07	0.000	0102042	0503706
UIGER _cons	.0302864 1557967	0102003 0440085	2.97 -3.54	0.003 0.000	.0102942 2420517	.0502786 0695416
Inflation						
dUnemploymentrate L1.	4634234	.3827134	-1.21	0.226	-1.213528	.286681
L2.	- 1293536	3842601	-0.34	0.736	8824897	6237824
dLTGBY10Y						
L1. L2.	.4847974	2909556 2874875	1.67 0.88	0.096 0.379	085465 3108018	1 05506 8161287
	.2320033	.2074075	0.00	0.373	5100010	.0101207
Inflation						
L1.	3793978	.0752865	-5.04	0.000	5269565	231839
L2.	1105507	.0753689	-1.47	0.142	258271	.0371696
UILUX						
L1.	0019512	.0029981	-0.65	0.515	0078274	.003925
L2.	0003079	.0029816	-0.10	0.918	0061517	.0055359
UIGER	0227201	0202626		0 405	0442271	100000
_cons	.0327281	0392636 1694005	0.83 0.86	0.405 0.389	0442271 1859935	.1096834 .4780443
UILUX						
dUnemploymentrate L1.	-2.938592	9.598334	-0.31	0.759	-21,75098	15.8738
L2.	5.978305	9.637126	0.62	0.535	-12.91012	24 86673
dLTGBY10Y						
L1.	-2.23454	7.297077	-0.31	0.759	-16.53655	12.06747
L2.	7.065128	7.2101	0.98	0.327	-7.066408	21.19666
Inflation	1					
L1.	4.049472	1.888161	2.14	0.032	.3487436	7.7502
L2.	.256457	1.890228	0.14	0.892	-3.448322	3.961236
UILUX	-					
L1.	.0942025	.0751918	1.25	0.210	0531708	.2415758
L2.	.1445649	.0747771	1.93	0.053	0019955	.2911252
	1					
UIGER _cons	1.558362 5.271356	9847189 4.248513	1.58 1.24	0.114 0.215	3716513 -3.055576	3.488376 13.59829

VAR 18. Luxembourg – VAR model with 2 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• MALTA

Sample: 2008m11 t	nru 2022m12			Number o	fobs	=	170
Log likelihood =	-775.7368			AIC		=	10.91455
FPE =	.6661447			HQIC		=	12.05229
Det(Sigma_ml) =	-1080466			SBIC		=	13.71832
Equation	Parms	RMSE	R-sq	chi2	P>chi2		

dUnemploymentr~e	38	.190297	0.2273	49.99662	0.0751
dLTGBY10Y	38	214087	0.1952	41.24011	0.2904
Inflation	38	.68916	0.7993	676.8619	0.0000
UIMLT	38	19.5081	0.3933	110.2239	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf.	interva
dUnemploymentrate	1					
Unemploymentrate						
L1.	.1641045	.0761279	2.16	0.031	.0148966	.31331
L2 L3	.0363448 2067951	.0781099 .0781851	0 47 -2 64	0 642 0 008	- 1167478 - 3600351	.18943 05355
L4.	- 0024843	0791483	-0.03	0.975	- 1576121	15264
L5.	.0499702	0750959	0.67	0.506	097215	.19715
L6.	1266729	0746185	-1.70	0.090	2729225	.01957
L7.	.0247378	0744727	0.33	0.740	121226	.17070
L8. L9.	.0479978 0028517	.0743813 .0741412	0.65 -0.04	0.519 0.969	- 097787 - 1481657	.19378 .14246
23.	10020327		••••	0.505		
dLTGBY10Y						
L1. L2.	.0039775 - 1184735	.0669238 .0671499	0.06 -1.76	0.953 0.078	- 1271908 - 2500849	13514 0131
L3.	041185	0678431	0.61	0.544	- 091785	.1741
L4.	0983912	.068184	-1.44	0.149	2320293	.03524
L5.	1163948	.0687659	-1.69	0.091	2511734	.01838
L6. L7.	0570806 - 009023	.0690417 .0705328	0.83 -0.13	0.408 0.898	- 0782386 - 1472648	.19239 .12921
L8.	0827431	.0717626	-1.15	0.249	- 2233952	0579
L9.	0152571	0717631	0.21	0.832	- 1253961	15591
Inflation L1.	.0098992	.0190512	0.52	0.603	0274405	-04723
L2.	0162052	0190088	0.85	0.394	0210513	.05346
L3.	0076075	.0179241	-0.42	0.671	042738	02752
L4.	.0166259	.0180998	0.92	0.358	018849	.05210
L5.	0240191	.0171141	-1.40	0.160	0575622	.00952
L6. L7.	.0124601 .0188469	.0180745 .0177681	0.69 1.06	0.491 0.289	- 0229653 - 0159778	.04788
L8.	0205665	.0190871	-1.08	0.289	0139778	.01684
L9.	.0188863	.0191442	0.99	0.324	0186356	05640
HTML T						
UIMLT L1.	0004743	.0007255	-0.65	0.513	0018962	.00094
L2.	.000254	.000728	0.35	0.727	0011728	.00168
L3.	0001679	.0007172	-0.23	0.815	0015736	.00123
L4.	.0014944	.0007084	2.11	0.035	.0001061	.00288
L5. L6.	- 002076 0002249	.0007094 .0007538	-2.93 0.30	0.003 0.765	0034664 0012526	- 00068 00170
L7.	- 0000747	0007415	-0.10	0.920	- 001528	00170
L8.	- 0005393	.0007433	-0.73	0.468	0019961	.00091
L9.	.0007474	.0007098	1.05	0.292	0006438	.00213
UIGER	.0009404	.0125218	0.08	0.940	0236019	.02548
_cons	007035	.0702259	-0.10	0.920	1446752	.13060
LTGBY10Y	 					
Unemploymentrate						
L1.	-2075051	0856451	2.42	0.015	.0396438	-37536
L2.	0289474	.0878749	-0.33	0.742	201179	.14328
L3. L4.	1060703 - 1215782	.0879595 .0890431	1.21 -1.37	0.228 0.172	0663271 2960995	27846 0529
L5.	0976496	084484	-1.16	0.248	2632352	06793
L6.	0206077	.083947	-0.25	0.806	1851409	.14392
L7.	.0103435	.083783	0.12	0.902	1538681	.1745
L8. L9.	- 0128819 - 0463261	0836802 08341	-0.15 -0.56	0.878 0.579	- 176892 - 2098067	.15112
L9.	0403201	.00341	-0.50	0.379	= .2098007	.11/13
dLTGBY10Y						
L1.	0900669	.0752904	-1.20	0.232	2376334	.05749
L2. L3.	- 0081283 1692026	.0755447 .0763245	-0.11 2.22	0.914 0.027	- 1561932 .0196092	.13993
L4.	.0750988	076708	0.98	0.328	- 0752462	.22544
L5.	- 041551	0773627	-0.54	0.591	- 193179	.11007
L6.	.054208	.077673	0.70	0.485	0980283	.20644
L7.	.0019059	.0793505	0.02	0.981	1536183	.15743
L8.	0176488 - 13479	.0807341 .0807347	0 22 -1 67	0.827 0.095	1405871 293027	.17588
Inflation						
L1.	.0136861	0214329	0.64	0.523	0283217	.05569
L2. L3.	0195542 006455	.0213852 .0201649	0.91 0.32	0.361 0.749	0223599 0330674	.06146
L4.	- 0326747	0203625	-1.60	0.109	- 0725845	00723
L5.	.0043594	.0192537	0.23	0.821	0333771	.04209
L6.	.0301644	.0203341	1.48	0.138	0096896	.07001
L7.	010018 0221875	.0199894 .0214733	0.50	0.616 0.301	0291604	.04919
L8. L9.	0221875	.0214733	1.03 -0.98	0.301	0198994 0633856	06427
UIMLT L1.	.001059	.0008162	1.30	0.194	0005406	.00265
L1.	001059	0008162 000819	1.30 0.34	0.194 0.732	0005406 0013251	00265
L3.	- 0002801	0008069	-0.62	0.732	0013231	.00107
L4.	0002138	.0007969	-0.27	0.789	- 0017757	.00134
L5.	0009083	.0007981	-1.14	0.255	0024725	.0006
L6.	0003533	.000848	-0.42	0.677	0020155	.00130
L7. L8.	00093 000657	.0008342 .0008362	1.11 0.79	0.265 0.432	000705 000982	0025 00229
L8.	0001506	.0008362	-0.19	0.432 0.850	000982 0017156	00229
-	1					
UIGER _cons	.0149316 1150226	.0140872 .0790052	1.06 -1.46	0.289 0.145	- 0126789 - 26987	042

nflation						
caczon						
Unemploymentrate						
L1.	.2294115	.2756969	0.83	0.405	3109444	.76976
L2.	.1761453	.2828746	0.62	0.533	3782788	.73056
L3.	0735294	.283147	-0.26	0.795	6284872	.48142
L4.	.0583927	2866352	0.20	0.839	- 5034019	.62018
L5.	.2243867	.2719593	0.83	0.409	3086437	75741
L6.	.0732771	.2702307	0.27	0.786	4563652	.60291
L7.	- 5356147	2697025	-1.99	0.047	-1.064222	00700
L8.	.101735	.2693717	0.38	0.706	- 4262238	62969
L9.	102028	.2685019	-0.38	0.704	6282819	.4242
dLTGBY10Y	1027242	2422644	0.76	0 440	2012012	65075
L1.	1837343 - 1689212	.2423644		0.448	2912912 6455514	65875 3077
L2.		.2431831	-0.69	0.487		
L3.	- 3122981	2456934	-1.27	0.204 0.076	7938483	.16925
L4.	.4377908	.2469279	1.77		0461789	.92176
L5.	.054571	.2490352	0.22	0.827	- 4335291	.54267
L6.	.5203705	.2500341	2.08	0.037	.0303127	1.0104
L7.	.3524423	.2554343	1.38	0.168	1481996	.85308
L8. L9.	.1034364 .2536159	.2598879 .2598899	0.40 0.98	0.691 0.329	4059345 2557589	61280 76299
L9.	.2536159	.2390099	0.90	0.329	255/569	./6299
Inflation						
L1.	.0547846	.068994	0.79	0.427	0804411	.19001
L2.	0618673	.0688401	-0.90	0.369	1967915	.07305
L3.	- 4382004	064912	-6.75	0.000	- 5654255	- 31097
L4.	0280109	0655482	-0.43	0.669	- 1564831	10046
L5.	- 2849947	.0619787	-4.60	0.000	4064707	- 16351
L6.	- 3669729	0654567	-5 61	0.000	4952656	23868
L7.	- 3185749	064347	-4 95	0.000	- 4446927	- 19245
L8.	0410353	069124	-0.59	0.553	- 1765158	.09444
L9.	4182561	0693306	-6.03	0.000	- 5541417	28237
L.J.			5.05			
UIMLT						
L1.	.0004377	.0026273	0.17	0.868	0047117	.0055
L2.	003547	.0026364	-1.35	0.178	0087143	.00162
L3.	.0055056	.0025974	2.12	0.034	.0004147	.01059
L4.	004381	.0025654	-1.71	0.088	009409	.0006
L5.	0010962	.0025692	-0.43	0.670	- 0061317	.00393
L6.	.0016679	.0027299	0.61	0.541	0036826	.00701
L7.	.0027344	.0026854	1.02	0.309	0025289	.00799
L8.	0043614	.0026918	-1.62	0.105	- 0096373	.00091
L9.	.0022642	.0025705	0.88	0.378	- 0027738	.00730
UIGER	.0932048	.0453477	2.06	0.040	.004325	.18208
_cons	.1200537	.2543226	0.47	0.637	3784095	.61851
IMLT						
Unemploymentrate						
L1.	-8.356138	7.804157	-1.07	0.284	-23.65201	6.9397
L2.	-5.857093	8.007339	-0.73	0.464	-21.55119	9.8370
L3.	3.067605	8.015048	0.38	0.702	-12.6416	18.776
L4.	1.097654	8.113788	0.14	0.892	-14.80508	17.000
	3.85873	7.698357	0.50	0.616	-11,22977	
L5.	3.05075				-11.229//	18.947
L5. L6.	-4.684838	7 649425	-0.61	0.540	-11.22977	
			-0.61 0.33	0.540 0.739		10.307
L6.	-4.684838	7.649425			-19.67744	10.307 17.503
L6. L7.	-4.684838 2.540253	7.649425 7.634474	0.33	0.739	-19.67744 -12.42304	10.307 17.503 19.586
L6. L7. L8. L9.	-4.684838 2.540253 4.635537	7.649425 7.634474 7.62511	0.33 0.61	0.739 0.543	-19.67744 -12.42304 -10.3094	10.307 17.503 19.586
L6. L7. L8. L9. dLTGBY10Y	-4.684838 2.540253 4.635537 2.346762	7.649425 7.634474 7.62511 7.600488	0.33 0.61 0.31	0.739 0.543 0.758	-19.67744 -12.42304 -10.3094 -12.54992	10.307 17.503 19.586 17.243
L6. L7. L8. L9. dLTGBY10Y L1.	-4.684838 2.540253 4.635537 2.346762	7.649425 7.634474 7.62511 7.600488	0.33 0.61 0.31	0.739 0.543 0.758	-19.67744 -12.42304 -10.3094 -12.54992	10.307 17.503 19.586 17.243
L6. L7. L8. L9. dLTGBY10Y L1. L2.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379	0.33 0.61 0.31 0.92	0.739 0.543 0.758 0.360 0.866	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053	10.307 17.503 19.586 17.243 19.725
L6. L7. L8. L9. dLTGBY10Y L1. L2.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848	0.33 0.61 0.31 0.92 -0.17 0.83	0.739 0.543 0.758 0.360 0.866 0.409	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329	10.307 17.503 19.586 17.243 19.725 12.333 19.375
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.754725	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793	0.33 0.61 0.31 0.92 -0.17 0.83 0.39	0.739 0.543 0.758 0.360 0.866 0.409 0.694	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502	10.307 17.503 19.586 17.243 19.725 12.333 19.375 16.454
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.754725 431586	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446	0.33 0.61 0.31 0.92 -0.17 0.83 0.39	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.951	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825	10.307 17.503 19.586 17.243 19.725 12.333 19.375 16.454
L6. L7. L8. dLTGBY10Y L1. L2. L3. L4. L5.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.754723 431586 3787148	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.951	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25079	10.307 17.503 19.586 17.243 19.725 12.333 19.375 16.454 13.385 13.493
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.754725 -431586 -3787148 -14.19448	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446	0.33 0.61 0.31 0.92 -0.17 0.83 0.39	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.951	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825	10.307 17.503 19.586 17.243 19.725 12.333 19.375 16.454 13.385 13.493
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.754725 431586 3787148 -14.19448 5.126803	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.951 0.957 0.050	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65953 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971	10.307 17.503 19.586 17.243 19.725 12.333 19.375 16.454 13.385 13.493 02279
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.754725 -431586 -3787148 -14.19448	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.951 0.957	-19.67744 -12.42304 -10.3894 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616	10.307 17.503 19.586 17.243 19.725 12.333 19.375 16.454 13.385 13.493 02279
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.754725 431586 3787148 -14.19448 5.126803	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.951 0.957 0.050	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65953 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971	10.307 17.503 19.586 17.243 19.725 12.333 19.375 16.454 13.385 13.493 02279
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.951 0.957 0.050 0.486 0.996	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65653 -7.887329 -10.94502 -14.25079 -28.36616 -9.291971 -14.45643	10.307 17.502 19.586 17.243 19.725 12.333 19.375 16.454 13.385 13.495 02275 19.545 14.381
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.754725 431586 3787148 -14.19448 5.126803 0375498	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.951 0.955 0.486 0.996	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643	10.307 17.503 19.5806 17.243 19.725 12.333 19.375 16.454 13.385 13.49902279 19.544 14.381
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759	7.649425 7.634474 7.62511 7.600488 6.860614 6.85379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.957 0.950 0.486 0.996	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25679 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061	10.307 17.502 19.586 17.245 19.725 12.333 19.375 16.454 13.385 13.49302275 19.54381 3.774 1.9395
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.754725 431586 3787148 5.126803 0375498	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.957 0.950 0.486 0.996	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254	10.307 17.503 19.508 17.243 19.725 12.333 19.375 16.454 13.385 13.493 02279 19.545 14.381
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 -14.19448 5.12680303754980531761 -1.879759 1.0551109 -3.177668	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.96 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.951 0.957 0.486 0.996	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333	10.307 17.503 19.508 17.243 19.725 12.333 19.375 16.454 13.385 13.49302279 19.545 14.381 3.774 1.9395 4.6524 4.45898
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759 1.051109 -3.177668	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 7.049446 7.077721 7.230584 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.957 0.957 0.486 0.996	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25679 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -2.483332	10.30 17.50 19.586 17.243 19.725 12.333 19.375 16.454 13.385 13.499 02279 19.545 14.381 3.774 1.9395 4.6524 4.5889 4.3939
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L4. L5. L6. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 -14.19448 5.1268030375498 0531761 -1.879759 1.051109 -3.177668 .9552915 3.276289	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.951 0.957 0.486 0.996 0.978 0.335 0.567 0.887 0.586	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -2.483332 -3552967	10.307 17.503 19.526 17.243 19.725 12.333 19.375 16.454 13.385 13.49302279 19.545 14.381 3.774 1.9395 4.6524 4.45899 4.3939 6.9078
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030531761 -1.879759 1.051109 -3.177668 .9552915 3.276289 -2.274487	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.821472	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.96 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.951 0.957 0.957 0.486 0.996	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65953 -7.887329 -10.94592 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -2.483332 -3.552267 -5.844506	10.307 17.503 19.508 17.243 19.725 12.333 19.375 16.454 13.385 13.49302279 19.545 14.381 3.774 1.9355 4.6524 .45899 4.3939 6.9078
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759 1.051109 3.177668 .9552915 3.276289 -2.2744873882783	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.852884 1.852884	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.995 0.957 0.957 0.050 0.486 0.996	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25679 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -6.814333 -3.852967 -4.423327	10.307 17.503 19.586 17.243 19.725 12.333 19.375 16.454 13.385 13.499 02279 19.545 14.381 3.774 1.9395 4.6524 4.5899 4.3939 6.9078 1.2955 3.446
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030531761 -1.879759 1.051109 -3.177668 .9552915 3.276289 -2.274487	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.821472	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.96 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.951 0.957 0.957 0.486 0.996	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65953 -7.887329 -10.94592 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -2.483332 -3.552267 -5.844506	10.307 17.503 19.586 17.243 19.725 12.333 19.375 16.454 13.385 13.499 02279 19.545 14.381 3.774 1.9395 4.6524 4.5899 4.3939 6.9078 1.2955 3.446
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759 1.051109 3.177668 .9552915 3.276289 -2.2744873882783	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.852884 1.852884	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.995 0.957 0.957 0.050 0.486 0.996	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25679 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -6.814333 -3.852967 -4.423327	10.30 17.50 19.58 17.24 19.72 12.33 19.37 16.45 13.49 0227 19.54 14.38 13.49 4.652 4.393 6.907 1.295 3.446
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UMLT	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759 1.0511069 3.1776689552915 3.276289 -2.2744873882783 -2.308623	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.852884 1.821472	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.95 -1.96 0.70 -0.01 -0.03 -0.96 0.57 -1.71 0.54 1.77 -1.25 -0.20 -1.18	0.739 0.543 0.758 0.360 0.866 0.409 0.995 0.957 0.050 0.486 0.996 0.978 0.335 0.567 0.087 0.586 0.077 0.212 0.843 0.239	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25679 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -3.48332 -3552967 -5.844596 -4.223327 -6.155138	10.307 17.503 19.586 17.243 19.725 12.333 19.375 16.454 13.385 13.499 02279 19.545 14.381 3.774 1.9395 4.6524 4.5899 4.3939 6.9078 1.2955 3.446 1.5378
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UMLT. L1.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759 1.051109 -3.177682 3.276289 -2.2744873882783 -2.308623	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230884 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.821472 1.956693 1.962544	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01 -0.03 -0.57 -1.71 0.57 -1.71 0.57 -1.71 0.55 -1.96	0.739 0.543 0.758 0.360 0.866 0.409 0.951 0.957 0.957 0.486 0.996 0.978 0.335 0.567 0.877 0.212 0.848 0.977	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -2.48332 -3.552967 -5.844506 -4.22327 -6.155138	10.307 17.503 19.526 17.243 19.725 12.333 19.375 16.454 13.385 13.49302279 19.545 14.381 3.774 1.9395 4.6524 4.5899 4.3939 6.9078 1.2955 3.4719
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIMLT L1. L2.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759 1.051109 -3.177668 .9552915 3.276289 -2.2744873882783 -2.308623	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230884 7.356652 7.356709 1.953014 1.948659 1.837464 1.848659 1.85475 1.754432 1.85284 1.821472 1.956693 1.962544	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.66 -0.05 -1.96 0.70 -0.01	0.739 0.543 0.758 0.360 0.866 0.409 0.951 0.957 0.486 0.996 0.488 0.335 0.567 0.887 0.567 0.843 0.239	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65653 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -2.483332 -2.483332 -3.552967 -5.844506 -4.223327 -6.155138	10.307 17.503 19.508 17.243 19.725 12.333 19.375 16.454 13.385 13.49302279 19.545 14.381 3.774 1.9395 4.6524 4.45899 4.3939 6.9078 1.2955 3.446 1.5378
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UMLT L1. L2. L3.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759 1.051109 -3.177668 .9552915 3.276289 -2.2744873882783 -2.308623	7.649425 7.634474 7.62511 7.600488 6.860614 6.8549 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.821472 1.956693 1.962544	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01 -0.57 -1.71 0.54 1.77 -1.25 -0.20 -1.18	0.739 0.543 0.758 0.360 0.866 0.409 0.951 0.957 0.050 0.486 0.996 0.978 0.335 0.586 0.077 0.212 0.843 0.239	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25679 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -3.48332 -3552967 -5.844596 -4.223327 -6.155138	10.307 17.503 19.526 17.243 19.725 12.333 19.375 16.454 13.385 13.49902279 19.545 14.381 3.774 1.9395 4.6524 4.5899 4.3939 6.9078 1.2955 3.446 1.5378
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIMLT L1. L2. L3. L4. L5. L6. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759 1.051109 -3.1776689552915 3.276289 -2.2744873882783 -2.308623	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230884 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.821472 1.956693 1.962544	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01 -0.03 -0.57 -1.71 0.57 -1.71 0.57 -1.71 1.25 -0.20 -1.18	0.739 0.543 0.758 0.360 0.866 0.409 0.951 0.957 0.486 0.996 0.978 0.335 0.567 0.087 0.212 0.843 0.239	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65653 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.8143332 -3.552967 -5.844506 -4.223327 -6.155138	10.307 17.503 19.526 17.243 19.725 12.333 19.375 16.454 13.385 13.49302279 19.545 14.381 3.774 1.9395 4.6524 4.5899 4.3939 6.9078 1.255 3.445 1.5378
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIMLT L1. L2. L3. L4. L5.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759 1.051109 -3.177668 .9552915 3.276289 -2.2744873882783 -2.308623 .2014293 .0769859 .20133680653442 .2539168	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230884 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.85284 1.821472 1.956693 1.962544	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01 -0.03 -0.96 0.57 -1.71 0.54 1.77 -1.25 -0.20 -1.18	0.739 0.543 0.758 0.360 0.866 0.409 0.951 0.957 0.050 0.486 0.996 0.978 0.335 0.567 0.843 0.239 0.007	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.2507 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -2.483332 -2.483332 -3.552967 -5.844506 -4.223327 -6.155138 -0.556664 -0.692842 -0.572285 -2.076724 -1113781	10.307 17.503 19.526 17.243 19.725 12.333 19.375 16.454 13.385 13.49302279 19.545 14.381 3.774 1.9395 4.6524 4.45899 4.3939 6.9078 1.2955 3.446 1.5378
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIMLT L1. L2. L3. L4. L5. L6. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 -14.19448 5.1268030375498 0531761 -1.879759 1.051109 -3.177668 .9552915 3.276289 -2.2744873882783 -2.308623 .2014293 .0769859 .20133680653442 .2539168	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.377721 7.230584 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.821472 1.956693 1.962544	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.06 0.70 -0.01 -0.57 -1.71 0.54 1.77 -1.25 -0.20 -1.18 2.71 1.03 2.74 -0.93 -0.94 -0.95 -1.96 -0.95 -1.96 -0.97	0.739 0.543 0.758 0.360 0.866 0.409 0.694 0.951 0.957 0.050 0.486 0.996 0.978 0.387 0.586 0.077 0.212 0.843 0.239 0.007 0.302 0.006 0.368 0.000	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65083 -7.887329 -10.94502 -14.24825 -14.25679 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -3.48332 -3552967 -5.844596 -4.223327 -6.155138	10.307 17.503 19.526 17.243 19.725 12.333 19.375 16.454 13.385 13.49902279 19.545 14.381 3.774 1.9395 4.6524 4.5899 4.3939 6.9078 1.2955 3.446 1.5378
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIMLT L1. L2. L3. L4. L5. L6. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759 1.051109 -3.1776689552915 3.276289 -2.2744873882783 -2.308623 .2014293 .0769856 .20135680653442 .25391681678856 .0971401	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.821472 1.956693 1.962544 6.0743702 6.074629 6.073526 6.0726177 6.0727255 6.0772756	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01 -0.03 -0.96 0.57 -1.71 0.54 1.77 -1.25 -0.20 -1.18	0.739 0.543 0.758 0.360 0.866 0.409 0.991 0.957 0.486 0.996 0.978 0.335 0.567 0.87 0.586 0.977 0.212 0.843 0.239	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -2.4833323552967 -5.844506 -4.223327 -6.155138	10.307 17.503 19.526 17.243 19.725 12.333 19.375 16.454 13.385 13.4930279 19.545 14.381 3.774 1.9395 4.6524 4.5899 4.3939 6.9078 1.2955 3.446 1.5378
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIMLT L1. L2. L3. L4. L5. L6. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 -14.19448 5.1268030375498 0531761 -1.879759 1.051109 -3.177668 .9552915 3.276289 -2.2744873882783 -2.308623 .2014293 .0769859 .20133680653442 .2539168167885609714010116493	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230884 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.821472 1.956693 1.962544 .0743702 .074629 .073526 .0726177 .0727252 .07772756 .0760155	0.33 0.61 0.31 0.92 -0.17 0.83 0.99 -0.06 -0.05 -1.96 0.70 -0.01 -0.03 -0.96 0.57 -1.71 0.54 1.77 -1.25 -0.20 -1.18 2.71 1.03 2.74 -0.99 -0.90 -	0.739 0.543 0.758 0.360 0.866 0.409 0.951 0.957 0.050 0.486 0.996 0.978 0.335 0.567 0.687 0.586 0.977 0.212 0.443 0.239 0.007 0.302 0.006 0.302 0.006	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -2.483332 -2.483332 -3.552967 -5.844506 -4.223327 -6.155138 -0556664 -0692842 .0572285 -2076724 .1113781 -319343 -0518476 -1609937	10.307 17.503 19.508 17.243 19.725 12.333 19.375 16.454 13.385 13.49302279 19.545 14.381 3.774 1.9395 4.6524 4.45899 4.3939 6.9078 1.2955 3.446 1.5378 .34719 .2232 .3454 .0769 .3964501642 .24612 .24612 .13769
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIMLT L1. L2. L3. L4. L5. L6. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 5.1268030375498 0531761 -1.879759 1.051109 -3.1776689552915 3.276289 -2.2744873882783 -2.308623 .2014293 .0769856 .20135680653442 .25391681678856 .0971401	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230584 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.821472 1.956693 1.962544 6.0743702 6.074629 6.073526 6.0726177 6.0727255 6.0772756	0.33 0.61 0.31 0.92 -0.17 0.83 0.39 -0.06 -0.05 -1.96 0.70 -0.01 -0.03 -0.96 0.57 -1.71 0.54 1.77 -1.25 -0.20 -1.18	0.739 0.543 0.758 0.360 0.866 0.409 0.991 0.957 0.486 0.996 0.978 0.335 0.567 0.87 0.586 0.977 0.212 0.843 0.239	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -2.4833323552967 -5.844506 -4.223327 -6.155138	10.307 17.503 19.508 17.243 19.725 12.333 19.375 16.454 13.385 13.49302279 19.545 14.381 3.774 1.9395 4.6524 4.45899 4.3939 6.9078 1.2955 3.446 1.5378 .34719 .2232 .3454 .0769 .3964501642 .24612 .24612 .13769
L6. L7. L8. L9. dLTGBY10Y L1. L2. L3. L4. L5. L6. L7. L8. L9. Inflation L1. L2. L3. L4. L5. L6. L7. L8. L9. UIMLT L1. L2. L3. L4. L5. L6. L7. L8. L9.	-4.684838 2.540253 4.635537 2.346762 6.279274 -1.158552 5.743923 2.7547254315863787148 -14.19448 5.1268030375498 0531761 -1.879759 1.051109 -3.177668 .9552915 3.276289 -2.2744873882783 -2.308623 .2014293 .0769859 .20133680653442 .2539168167885609714010116493	7.649425 7.634474 7.62511 7.600488 6.860614 6.88379 6.954848 6.989793 7.049446 7.077721 7.230884 7.356652 7.356709 1.953014 1.948659 1.837464 1.855475 1.754432 1.852884 1.821472 1.956693 1.962544 .0743702 .074629 .073526 .0726177 .0727252 .07772756 .0760155	0.33 0.61 0.31 0.92 -0.17 0.83 0.99 -0.06 -0.05 -1.96 0.70 -0.01 -0.03 -0.96 0.57 -1.71 0.54 1.77 -1.25 -0.20 -1.18 2.71 1.03 2.74 -0.99 -0.90 -	0.739 0.543 0.758 0.360 0.866 0.409 0.951 0.957 0.050 0.486 0.996 0.978 0.335 0.567 0.687 0.586 0.977 0.212 0.443 0.239 0.007 0.302 0.006 0.302 0.006	-19.67744 -12.42304 -10.3094 -12.54992 -7.167282 -14.65053 -7.887329 -10.94502 -14.24825 -14.25079 -28.36616 -9.291971 -14.45643 -3.881013 -5.699061 -2.550254 -6.814333 -2.483332 -2.483332 -3.552967 -5.844506 -4.223327 -6.155138 -0556664 -0692842 .0572285 -2076724 .1113781 -319343 -0518476 -1609937	18.947 10.307 17.503 19.580 17.243 19.725 12.333 19.375 16.454 13.385 13.49302279 14.381 3.774 1.9395 4.6524 4.5899 4.3939 6.3978 1.2955 3.446 1.5378 .34719 .2232 .3454 .0769 .3964501642 .24612 .13769 .31001 3.0208

VAR 19. Malta – VAR model with 9 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• **NETHERLANDS**

=							
Sample: 2008m5	thru 2022m12			Number o	f obs	=	176
Log likelihood	= -362.3997			AIC		=	4.754542
FPE	= .0013663	:		HQIC		=	5.163702
Det(Sigma_ml)	= .0007221			SBIC		=	5.763332
Equation	Parms	RMSE	R-sq	chi2	P>chi2		
dUnemploymentr~	e 14	.126547	0.2280	51.97354	0.0000		
dLTGBY10Y	14	.155432	0.2612	62.22657	0.0000		
Inflation	14	.597595	0.2286	52.1622	0.0000		
UINLD	14	2.74898	0.6889	389.6904	0.0000		

	Coefficient	Std. err.	z	P> z	[95% conf.	interval
dUnemploymentrate						
dUnemploymentrate						
L1. L2.	.2356179 .2738433	0755935 0747596	3.12 3.66	0.002 0.000	.0874574 .1273173	.383778
L3.	0102503	0735293	0.14	0.889	1338644	15436
dLTGBY10Y L1.	05995	.058751	-1.02	0.308	1750998	.055199
L2.	0148568	0598091	0.25	0.804	- 1023668	132086
L3.	.0654977	.0581479	1.13	0.260	- 04847	.179465
Inflation						
L1.	000079	.015487	-0.01	0.996	030433	.030275
L2. L3.	.010239 0088937	.0168177 .017381	0.61 -0.51	0.543 0.609	0227232 0429599	.04320
L3.	0088937	.01/381	-0.51	0.609	0429599	.0251/2
UINLD						
L1.	0042194 .0030412	.0033153	-1.27	0.203 0.386	0107172 0038286	002278
L2. L3.	.0000616	.0035051 .0033339	0.87 0.02	0.985	0058286	00659
UIGER	0076509	.0096045	-0.80	0.426	0264754	.011173
_cons	.0403252	.0350417	1.15	0.250	0283552	.109005
ILTGBY10Y						
dUnemploymentrate						
L1. L2.	0437935 .1490078	.092848 .0918238	-0.47 1.62	0.637 0.105	- 2257723 - 0309635	.138185
L3.	- 1441459	0903127	-1.60	0.110	- 3211556	.032863
,,						
dLTGBY10Y L1.	.1615531	.0721612	2.24	0.025	.0201198	.302986
L2.	1435907	.0734608	-1.95	0.051	2875713	.000389
L3.	.0946468	.0714204	1.33	0.185	0453346	.234628
Inflation						
L1.	.0525341	.019022	2.76	0.006	.0152516	.089816
L2.	.035236	.0206565	1.71	0.088	0052499	.07572
L3.	.0497557	.0213483	2.33	0.020	.0079137	.091597
UINLD						
L1.	0006558	.004072	-0.16	0.872	0086367	.007325
L2.	0060314	.0043051	-1.40	0.161	0144693	.002406
L3.	.0088176	.0040948	2.15	0.031	.0007919	.016843
UIGER	.0161593	.0117968	1.37	0.171	0069621	.039286
_cons	1277708	.0430401	-2.97	0.003	2121279	043413
Inflation						
dUnemploymentrate						
L1.	.3331215	.3569759	0.93	0.351	3665384	1.03278
L2. L3.	.0870527 .1199437	.3530379 .3472281	0.25 0.35	0.805 0.730	- 6048888 - 5606109	.778994 .800491
dLTGBY10Y						
L1. L2.	.4973441 5589064	2774404 2824371	1.79 -1.98	0.073 0.048	- 0464291 -1 112473	1.0411
L3.	1 031903	2745923	3.76	0.000	4937124	1 57009
Inflation L1.	.1235029	0731346	1.69	0.091	- 0198384	.266844
L2.	- 2169404	0794186	-2.73	0.006	- 3725981	- 061282
L3.	2336662	.0820787	-2.85	0.004	3945375	- 07279
UINLD						
L1.	.0213152	.0156557	1.36	0.173	0093694	.051999
L2.	- 0174422	.016552	-1.05	0.292	0498835	.014999
L3.	.0028894	.0157436	0.18	0.854	0279674	.033740
UIGER	.1069386	.0453556	2.36	0.018	.0180432	.19583
_cons	- 2477374	1654778	-1.50	0.134	- 5720679	07659
UINLD dUnemploymentrate						
L1.	.0565276	1.642119	0.03	0.973	-3.161966	3.2750
L2.	0939123	1.624003	-0.06	0.954	-3.276901	3.08907
L3.	7491352	1.597278	-0.47	0.639	-3.879742	2.38147
dLTGBY10Y						
L1.	-1.514294	1.276249	-1.19	0.235	-4.015696	.98710
L2. L3.	-2.034227 1.636464	1.299234 1.263147	-1.57 1.30	0.117 0.195	-4.580679 - 8392586	51222! 4 1121
L3.	1.030404	1.203147	1.30	0.193	6392360	4.1121
Inflation						
L1.	.1533878	.3364254	0.46	0.648	5059939	.812769
L2. L3.	2274766 1677607	.3653322 .3775687	-0.62 -0.44	0.534 0.657	- 9435145 - 9077817	.488561 .572266
	1 20,,00,		~	,		
UINLD						
L1. L2.	.3932193 .1444249	.0720175 .0761405	5.46 1.90	0.000 0.058	-2520676 0048076	53437 293657
L2.	134155	0761405	1.90	0.058	0048076	.293657
	1 10011	2006206	5.30	0.000	.6971835	1.51503
UIGER _cons	1.10611 -1.07251	.2086396 .7612114	-1.41	0.159	-2 564457	419437

VAR 20. Netherlands – VAR model with 3 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

POLAND

Sample: 2008m5 th	cu 2022m12	,		Number of	f obs	_	176
Log likelihood =	488.3168			AIC		=	-4.583146
FPE =	7.06e-09	•		HQIC		=	-3.962099
Det(Sigma_ml) =	2.68e-09	•		SBIC		=	-3.051946
Equation	Parms	RMSE	R-sq	chi2	P>chi2		
dUnemploymentr~e	17	.128906	0.3813	108.446	0.0000		
dLTGBY10Y	17	.255927	0.2699	65.06374	0.0000		
Inflation	17	414745	0.4042	119.4122	0.0000		
UIPOL	17	1.13165	0.6613	343.6097	0.0000		
dPLNEUR	17	.005168	0.1361	27.72136	0.0341		

dPLNEUR	17 .005	168 0.136	1 27.7	2136 0.	0341	
	Coefficient	Std. err.	z	P> z	[95% conf-	interval]
dUnemploymentrate	COCTUTETENT				(330 com.	
dUnemploymentrate L1.	.4870681	.07503	6.49	0.000	3400119 - 0334883	.6341243
L2. L3.	.1294524 0885784	0831345 074996	1.56 -1.18	0.119 0.238	- 0334883 - 2355677	292393 058411
dLTGBY10Y L1.	.0314371	.0430433	0.73	0.465	0529261	.1158003
L2. L3.	0292775 .0051179	.0446408 .0482074	-0.66 0.11	0.512 0.915	1167718 0893668	.0582168 .0996026
Inflation	0373837	.0270039	-1.38	0.166	0903103	.015543
L1. L2. L3.	03/383/ 0368587 0280344	0266594	1.38	0.167 0.298	- 0903103 - 0153927 - 0247499	0891101 0898188
UIPOL				0.250		
L1. L2.	- 008946 - 0095014	.0082693 .0082256	-1.08 -1.16	0.279 0.248	- 0251535 - 0256233	.0072614 .0066204
L3. dPLNEUR	.0147388	.0081323	1.81	0.070	0012002	.0306778
L1.	-2.339701 7191091	1.89014 1.956632	-1.24 -0.37	0.216 0.713	-6.044307 -4.554037	1.364905
L3.	-3.711522	1.890291	-1.96	0.050	-7.416424	0066204
UIGER _cons	0002127 - 0105361	.0103154 .0339111	0.02 -0.31	0.984 0.756	- 020005 - 0770006	.0204305 .0559285
dLTGBY10Y dUnemploymentrate						
L1. L2.	- 0006743 - 1158389	1489634 1650538	-0.00 -0.70	0.996 0.483	- 2926372 - 4393384	2912885 2076607
L3.	0104723	.1488957	-0.07	0.944	3023025	.2813579
dLTGBY10Y L1. L2.	.2150257 2979638	.0854573 .0886291	2.52	0.012 0.001	.0475324 4716736	.382519 124254
L2.	- 2979638	.0957101	0.14	0.890	- 1743216	200855
Inflation L1.	.1553003 0064139	.0536131	2.90	0.004	.0502205	.26038
L2. L3.	- 0064139 - 0725	052929 053469	-0.12 -1.36	0.904 0.175	- 110153 - 1772972	.0973251 .0322972
UIPOL	.0173461	.0164177	1.06	0.291	014832	.0495241
L1. L2. L3.	0173461 0064207 - 009292	0164177 016331 0161457	0.39 -0.58	0.291 0.694 0.565	014832 0255874 040937	0495241 0384288 0223531
dPLNEUR		.0101437	0.50		1040337	.0223331
L1. L2.	-2.636681 2216259	3.752652 3.884664	-0.70 -0.06	0.482 0.955	-9.991744 -7.835427 -7.79089	4.718381 7.392175
L3.	4352397	3.752951	-0.12	0.908 0.085	-7.79089 0048723	6.92041
UIGER _cons	.0352677 2164731	.0204799 .0673265	1.72 -3.22	0.085 0.001	0048723 3484307	.0754076 - 0845155
Inflation dUnemploymentrate						
L1. L2.	2092449 220185	.2414042 .2674798	0.87 0.82	0.386 0.410	2638987 3040658	.6823884 .7444358
L3. dLTGBY10Y	.0755463	.2412946	0.31	0.754	3973824	.5484749
L1. L2.	1521412 - 1546793	.1384888 .1436288	1.10	0.272 0.282	119292 4361866	4235743 126828
L3.	.1292669	155104	0.83	0.405	1747313	4332652
Inflation L1.	.1803346	.0868833	2.08	0.038	.0100465	.3506228
L2. L3.	.1828477 0720708	.0857747 .0866497	2.13 -0.83	0.033 0.406	.0147322 2419011	.3509631 .0977596
UIPOL L1.	.0388861	.0266058	1.46	0.144	0132603	.0910326
L2.	0343053 0353899	.0264653 .0261651	1.30	0 195 0 176	- 0175657 - 0158928	0861764 0866726
dPLNEUR						
L1. L2. L3.	-9.590342 -7.146475 3.847935	6.081401 6.295334 6.081887	-1.58 -1.14 0.63	0.115 0.256 0.527	-21.50967 -19.4851 -8.072344	2 328985 5 192153 15 76821
UIGER	0233357	.033189	0.70	0.482	0417135	.088385
_cons	2343295	.1091068	-2.15	0.032	4481749	0204842
UIPOL dUnemploymentrate L1.	.2658221	.6586808	0.40	0.687	-1.025169	1.556813
L2.	- 1672734 - 1787329	7298291 6583816	-0.23 -0.27	0.819 0.786	-1.023103 -1.597712 -1.469137	1.263165
dLTGBY10Y						
L1. L2. L3.	- 1678685 2162716 - 145359	3778722 3918968 4232073	-0.44 0.55 -0.34	0.657 0.581 0.731	9084844 551832 - 9748302	5727475 9843751 6841121
Inflation	145359	.4232073	-0.34	0.731	9748302	.6841121
L1.	1826519 3497195	2370645	0.77 1.49	0.441 0.135	- 281986 - 1089899	6472899 808429
L3.	0685164	.2364271	-0.29	0.772	531905	.3948723
UIPOL L1.	.2066141	.072595	2.85	0.004	.0643305	.3488977
L2. L3.	.0884653 .2563464	0722116 0713926	1.23 3.59	0.221 0.000	0530668 .1164195	.2299975 .3962732
dPLNEUR L1.	23.18859	16.59334	1.40	0.162	-9.333759	55.71094
L1. L2. L3.	-18.39257 7.197538	17.17706 16.59467	-1.07 0.43	0.284 0.664	-52.059 -25.32741	15.27386 39.72248
UIGER	.4499299 580268	.0905575 .2977021	4.97 -1.95	0.000 0.051	2724405 -1.163753	6274192 0032173
cons	380208	.29//621	-1.95	0.031	-1.163733	.0032173
dUnemploymentrate L1.	.0030924	.0030083	1.03	0.304	0028038	.0089886
L2. L3.	0024281 - 0010264	0033333 003007	0.73 -0.34	0.466 0.733	- 004105 - 0069199	.0089612 .0048671
dLTGBY10Y L1.	.0038672	.0017258	2.24	0.025	.0004847	.0072498
L2.	0003486	0017899	0.19	0.846	0031595 004629	0038567
Inflation						
L1. L2.	- 0014117 000976	.0010827 .0010689	-1.30 0.91	0.192 0.361	- 0035338 - 001119 - 0016775	0007104 003071
L3. UIPOL	.0004389	.0010798	0.41	0.684	0016775	.0025552
L1. L2.	- 0004266 - 0001416	.0003316	-1.29 -0.43	0.198 0.668	0010765 000788	.0002232 .0005048
L3.	.0006753	.0003261	2.07	0.038	0000362	0013143
dPLNEUR L1.	.2200679	.0757849	2.90	0.004	.0715322	.3686036
L2. L3.	.0716189 .0594692	0784509 075791	0.91 0.78	0.361 0.433	082142 0890784	.2253798 .2080168
UIGER _cons	0004328 .0013398	.0004136 .0013597	-1.05 0.99	0.295 0.324	0012434 0013251	.0003778 .0040046
	L					

VAR 21. Poland – VAR model with 3 lags for unemployment rate, inflation, long term government bond 10 years, the country's currency over euro (HUF/EUR) and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• PORTUGAL

dUnemploymentr~e	30	.232877	0.3889	109.4375	0.0000		
Equation	Parms	RMSE	R-sq	chi2	P>chi2		
Det(Sigma_ml) =	.0115953	1		SBIC		=	10.48563
FPE =	.0474827	•		HQIC		=	9.180649
Log likelihood =	-592.9146	i		AIC		=	8.289705
Sample: 2008m9 th	nru 2022m1 2	!		Number o	fobs	=	172

- 1					
dUnemploymentr~e	30	.232877	0.3889	109.4375	0.0000
dLTGBY10Y	30	.39998	0.2582	59.87205	0.0006
Inflation	30	.482246	0.5998	257.7379	0.0000
UIPRT	30	3.59994	0.7861	632.0609	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
dUnemploymentrate						
dUnemploymentrate						
L1.	.3783098	.0717409	5.27	0.000	.2377003	.5189193
L2.	.1513647	.0770225	1.97	0.049	.0004034	.302326
L3.	.006094 0391634	.0785015	0.08	0.938	- 147766 - 1949918	.1599541
L4. L5.	0423024	.0795057 .0788043	-0.49 -0.54	0.622 0.591	- 1949918	116665
L6.	0296986	0778235	0.38	0.703	1228326	1822298
L7.	.1951271	.0728583	2.68	0.007	0523274	.3379267
dLTGBY10Y						
L1.	.0068185	.0439814	0.16	0.877	0793834	.0930204
L2. L3.	.0526276	.0445786 .0440868	1.18 1.80	0.238 0.072	0347448 0070061	14 16581
L4.	- 0507539	0463531	-1.09	0.274	- 1416043	0400965
L5.	.0477903	0447282	1.07	0.285	0398754	135456
L6.	0435334	.0450084	-0.97	0.333	- 1317484	.0446815
L7.	.0782742	.0445529	1.76	0.079	0090479	.1655963
Inflation	0704004	0254044	2 24	0 025	1400706	0000433
L1. L2.	0794904 0455507	.0354844 .0315793	-2.24 -1.44	0.025 0.149	1490386 1074451	0163436
L3.	.0603513	.0313793	1.82	0.069	0046189	125321
L4.	- 01939	0314575	-0.62	0.538	- 0810457	.0422656
L5.	0134518	.0333133	0.40	0.686	0518411	0787448
L6.	0486904	.0312789	-1.56	0.120	1099959	.0126152
L7.	.1260734	.035176	3.58	0.000	.0571297	.1950172
UIPRT	0067303	.0048672	1 20	0 167	0020001	0162606
L1. L2.	.0067303 0062248	0050506	1.38 -1.23	0.167 0.218	0028091 0161237	.0162698 .0036741
L3.	0006202	0048586	-0.13	0.898	- 0101428	0089024
L4.	.0002987	0050439	0.06	0.953	0095872	.0101846
L5.	0014046	.0047936	-0.29	0.770	0107999	.0079907
L6.	0082614	.0050774	-1.63	0.104	0182129	.0016901
L7.	.0101664	.0050112	2.03	0.042	.0003446	.0199882
HICED	0033074	0176011	0.10	0.053	0270614	0212066
UIGER _cons	0032874	.0176911 .0618739	-0.19 0.10	0.853 0.922	0379614 1151836	.0313866
					1151050	.12/33/3
dLTGBY10Y						
dUnemploymentrate						
L1.	.0175781	.1232192	0.14	0.887	2239271	.2590832
L2.	0921339	.1322907	-0.70	0.486	3514189	.1671513
L3. L4.	.0064946 .1232273	.134831 .1365559	0.05 0.90	0.962 0.367	2577692 1444173	.2707584 .3908718
L5.	0166815	135351	0.12	0.902	- 2486017	2819647
L6.	2352863	1336664	-1.76	0.078	- 4972678	.0266951
L7.	1		1.49	0.135	- 0582681	
	.1869987	.1251384	1.49			.4322656
	.1869987	.1251384	1.49			.4322656
dLTGBY10Y						
L1.	.1336491	.0755406	1.77	0.077	0144078	.2817059
L1. L2.	.1336491 .0878539	.0755406 .0765663	1.77 1.15	0.077 0.251	0144078 0622133	.2817059 .2379211
L1. L2. L3.	.1336491 .0878539 .2613338	.0755406 .0765663 .0757217	1.77 1.15 3.45	0.077 0.251 0.001	0144078 0622133 .112922	.2817059 .2379211 .4097457
L1. L2. L3. L4.	.1336491 .0878539 .2613338 006187	.0755406 .0765663 .0757217 .0796142	1.77 1.15 3.45 -0.08	0.077 0.251 0.001 0.938	0144078 0622133 .112922 1622279	.2817059 .237921 .4097457 .149854
L1. L2. L3. L4. L5.	.1336491 .0878539 .2613338	.0755406 .0765663 .0757217 .0796142 .0768234	1.77 1.15 3.45 -0.08 1.67	0.077 0.251 0.001 0.938 0.094	0144078 0622133 .112922 1622279 0219304	.2817059 .237921 .4097457 .149854
L1. L2. L3. L4.	.1336491 .0878539 .2613338 006187 .1286406	.0755406 .0765663 .0757217 .0796142	1.77 1.15 3.45 -0.08	0.077 0.251 0.001 0.938	0144078 0622133 .112922 1622279	.2817059 .2379211 .4097457 .149854 .2792116
L1. L2. L3. L4. L5. L6.	.1336491 .0878539 .2613338 006187 .1286406 0745619	.0755406 .0765663 .0757217 .0796142 .0768234	1.77 1.15 3.45 -0.08 1.67	0.077 0.251 0.001 0.938 0.094 0.335	0144078 0622133 .112922 1622279 0219304 2260763	.2817059 .2379211 .4097457 .149854 .2792116
L1. L2. L3. L4. L5. L6. L7.	.1336491 .0878539 .2613338 006187 .1286406 0745619 .0483416	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63	0.077 0.251 0.001 0.938 0.094 0.335 0.528	0144078 0622133 .112922 1622279 0219304 2260763 1016392	.2817055 .2379211 .4097457 .149854 .2792116 .0769525
L1. L2. L3. L4. L5. L6.	.1336491 .0878539 .2613338 006187 .1286406 0745619	.0755406 .0765663 .0757217 .0796142 .0768234	1.77 1.15 3.45 -0.08 1.67	0.077 0.251 0.001 0.938 0.094 0.335	0144078 0622133 .112922 1622279 0219304 2260763	.2817059 .2379211 .4097457 .149854 .2792116 .0769525 .1983225
L1. L2. L3. L4. L5. L6. L7. Inflation L1.	.1336491 .0878539 .2613338 006187 .1286406 0745619 .0483416	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63	0.077 0.251 0.001 0.938 0.094 0.335 0.528	01440780622133 .1129221622279021930422607631016392	.2817055 .2379211 .4097457 .149854 .27792116 .0769525 .1983225
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2.	.1336491 .0878539 .2613338 006187 .1286406 0745619 .0483416	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63	0.077 0.251 0.001 0.938 0.094 0.335 0.528	01440780622133 .1129221622279021930422607631016392 106560507749661507078	.2817055 .2379211 .4097457 .149854 .2792116 .0769525 .1983225
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3.	.1336491 .0878539 .2613338 006187 .1286406 0745619 .0483416 .0128926 .0288107 0391175 .0342044	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63	0.077 0.251 0.001 0.938 0.094 0.335 0.528 0.832 0.595 0.492 0.527	01440780622133 .1129221622279021930422607631016392 1065605077496615070780716928	.2817055 .2379211 .4097455 .149884 .2792116 .0769525 .1983225 .1323456 .1351175 .0724727
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3. L4.	.1336491 .0878539 .2613338 006187 .1286406 0745619 .0483416 .0128926 .0288107 0391175 .0342044 1482874	.0755406 .0765663 .0757217 .0796142 .0768234 .0733047 .0765222 .0609466 .0542394 .0569348 .0569348 .0540302	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63	0.077 0.251 0.001 0.938 0.094 0.335 0.528 0.832 0.595 0.492 0.527 0.610	01440780622133 .112922162227902193042260763101639210656050774966150707807169282604319	.2817055 .2379211 .4097457 .14985 .2792116 .0769525 .1983225 .1323456 .1351175 .0724727
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3. L4. L5.	.1336491 .0878539 .2613338 006187 .1286406 0745619 .0483416 .0128926 .0288107 0391175 .0342044	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63	0.077 0.251 0.001 0.938 0.094 0.335 0.528 0.832 0.595 0.492 0.527	01440780622133 .1129221622279021930422607631016392 1065605077496615070780716928	.2817055 .2379211 .4097457 .1149854 .2792116 .0769525 .1983225 .1351175 .0724727 .1401017 .036145
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3. L4.	.1336491 .0878539 .2613338 006187 .1286406 0745619 .0483416 .0128926 .0288107 0391175 .0342044 1482874 .0744487	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222 .0609466 .0542394 .0569348 .0549302 .0572176	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63 -0.69 0.63 -2.59	0.077 0.251 0.001 0.938 0.094 0.335 0.528 0.595 0.492 0.595 0.492	01440780622133 .1129221622279021930422607631016392 106560507749661507078071692826043190308472	.2817055 .2379211 .4097457 .1149854 .2792116 .0769525 .1983225 .1351175 .0724727 .1401017 .036145
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3. L4. L5. L6. L7.	.1336491 .0878539 .2613338 006187 .1286406 0745619 .0483416 .0128926 .0288107 0391175 .0342044 1482874 .0744487 1134948	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222 .0609466 .0542394 .0569348 .0549302 .0572176 .0537234	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63 0.21 0.53 -0.69 0.63 -2.59 1.39 -1.88	0.077 0.251 0.001 0.938 0.094 0.335 0.528 0.528 0.492 0.595 0.492 0.501 0.166	01440780622133 .1129221622279021930422607631016392 1065605077496615070780716928260431903084722319098	.2817055 .2379211 .4097457 .149854 .2792116 .0769525 .1983225 .1351175 .0724727 .1401017 .036145 .1797447
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3. L4. L5. L6. L7.	.1336491 .0878539 .2613338 006187 .1286406 0745619 .0483416 .0128926 .0288107 0391175 .0342044 1482874 .0744487 1134948	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222 .0609466 .0542394 .0569348 .0540302 .0572176 .0537234 .0604169	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63 -0.69 0.63 -2.59 -1.88	0.077 0.251 0.001 0.994 0.335 0.528 0.832 0.595 0.492 0.527 0.016 0.166 0.060	01440780622133 .11292216222790213904226076310163921065605077496615070780716928260431903084722319098	.2817055 .2379211 .409745; .149854 .2792116 .0769525 .1983225 .1351175 .0724727 .1401017 -036143 .1797447 .0049201
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3. L4. L5. L6. L7. UIPRT L1.	.1336491 .0878539 .2613338 006187 .1286406 0745619 .0483416 .0128926 .0288107 0391175 .0342044 1482874 .0744487 1134948	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222 .0609466 .0542394 .0569348 .0540302 .0572176 .0537234 .0604169	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63 0.21 0.53 -0.69 0.63 -2.59 1.39 -1.88	0.077 0.251 0.001 0.938 0.094 0.335 0.528 0.528 0.595 0.492 0.595 0.492 0.506 0.660	01440780622133 .1129221622279021930422607631016392106560507749661507078071692826043190308472231909800971550097155	.2817055 .2379211 .4097457 .14985 .2792116 .0769525 .1983225 .1351175 .0724727 .1401017 .036143 .1797447 .0049201
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3. L4. L5. L6. L7. UIPRT L1. L2. L3.	.1336491 .0878539 .2613338006187 .12864060745619 .0483416 .0128926 .02881070391175 .03420441482874 .07444871134948	.0755406 .0765663 .0755663 .0757217 .0796142 .0768234 .0773047 .0765222 .0609466 .0542394 .0569348 .0549302 .0572176 .0537234 .0604169	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63 0.21 0.53 -0.69 0.63 -2.59 1.39 -1.88	0.077 0.251 0.001 0.938 0.094 0.335 0.528 0.832 0.595 0.492 0.595 0.492 0.166 0.060	01440780622133 .1129221622279021930422607631016392 1065605077496615070780716928260431903084722319098 009715500502230122785	.2817055 .2379211 .4997457 .149854 .2792116 .0769525 .1983225 .1351175 .0724727 .1401017 .0049201
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3. L4. L5. L6. L7. UIPRT L1. L2. L3. L4. L4. L5. L6. L7.	.1336491 .0878539 .2613338006187 .12864060745619 .0483416 .0128926 .02881070391175 .03420441482874 .07444871134948 .0066691 .0119796 .00407720010849	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222 .0609466 .0542394 .0559348 .0540302 .0572176 .0537234 .0604169	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63 -0.69 0.63 -2.59 -1.88 0.80 1.38 0.80	0.077 0.251 0.001 0.938 0.994 0.332 0.528 0.832 0.595 0.495 0.627 0.010 0.166 0.425 0.167 0.625	01440780622133 .1129221622279021930422607631016392 1065605077496615070780716928260431903084722319098 0097155005022301227850180645	.2817055 .2379211 .409745; .149854 .2792116 .0769525 .1983225 .1351175 .0724727 .1401017 036143 .1797447 .0049201
L1.	.1336491 .0878539 .2613338 006187 .1286406 0745619 .0483416 .0128926 .0288107 0391175 .0342044 1482874 .0744487 1134948 .0066691 .0119796 .0040772 0010849 0191769	.0755406 .0765663 .0755663 .0757217 .0796142 .0768234 .0773047 .0765222 .0609466 .0542394 .0569348 .0549302 .0572176 .0537234 .0604169	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63 0.21 0.53 -0.69 0.63 -2.59 1.39 -1.88	0.077 0.251 0.001 0.938 0.094 0.335 0.528 0.832 0.595 0.492 0.595 0.492 0.166 0.060	01440780622133 .1129221622279021930422607631016392 1065605077496615070780716928260431903084722319098 009715500502230122785	.2817059 .2379211 .4097457 .149854 .2792116 .0769525 .1983225 .1323458 .1351179 .0724727 .1401017 .036143 .1797447 .0049201 .0230537 .0289816 .0204329 .0158947 .0030393
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3. L4. L5. L6. L7. UIPRT L1. L2. L3. L4. L4. L5. L6. L7.	.1336491 .0878539 .2613338006187 .12864060745619 .0483416 .0128926 .02881070391175 .03420441482874 .07444871134948 .0066691 .0119796 .00407720010849	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222 .0609466 .0542394 .0569348 .0540302 .0572176 .0537234 .0604169	1.77 1.15 3.45 -0.08 1.67 -0.96 0.63 0.21 0.53 -0.69 0.63 -2.59 1.39 -1.88 0.80 1.38 0.49 -0.49 -2.33	0.077 0.251 0.001 0.938 0.094 0.335 0.528 0.832 0.595 0.492 0.527 0.010 0.166 0.060	01440780622133 .1129221622279021930422607631016392106560507749661507078071692826043190308472231909800971550050223012278501806450353138	.2817059 .2379211 .4097457 .149854 .2792116 .0769525 .1983225 .1323458 .1351179 .0724727 .4401017 .0036143 .1797447 .0049201 .0230537 .0289816 .0204329 .0158947 .0030399 .012284
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3. L4. L5. L6. L7. UIPRT L1. L2. L3. L4. L5. L6. L7.	.1336491 .0878539 .2613338006187 .12864060745619 .0483416 .0128926 .02881070391175 .03420441482874 .07444871134948 .0066691 .0119796 .00407720010849019176900488840026135	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222 .0609466 .0542394 .0569348 .0540302 .0572176 .0537234 .0604169	1.77 1.15 3.45 -0.98 1.67 -0.96 0.63 0.21 0.53 -0.69 0.63 -2.59 1.39 -1.88 0.80 1.38 0.49 -0.13 -2.33 -0.55	0.077 0.251 0.001 0.938 0.938 0.938 0.528 0.832 0.595 0.492 0.527 0.166 0.060	01440780622133 .1129221622279021930422607631016392 1065605077496615070780716928260431903084722319098 0097155005022301227850180645035331380219007	.2817059 .2379211 .4097457 .149854 .2792116 .0769525 .1983225 .1323458 .1351179 .0724727 .1401017 .036143 .1797447 .0049201 .0230537 .0289816 .0204329 .0158947 .0030399 .012284
L1. L2. L3. L4. L5. L6. L7. Inflation L1. L2. L3. L4. L5. L6. L7. UIPRT L1. L2. L3. L4. L5. L6. L7.	.1336491 .0878539 .2613338006187 .12864060745619 .0483416 .0128926 .02881070391175 .03420441482874 .07444871134948 .0066691 .0119796 .004077200108490191769	.0755406 .0765663 .0757217 .0796142 .0768234 .0773047 .0765222 .0609466 .0542394 .0569348 .0540302 .0572176 .0537234 .0604169	1.77 1.15 3.45 -0.98 1.67 -0.96 0.63 0.21 0.53 -0.69 0.63 -2.59 1.39 -1.88 0.80 1.38 0.49 -0.13 -2.33 -0.55	0.077 0.251 0.001 0.938 0.938 0.938 0.528 0.832 0.595 0.492 0.527 0.166 0.060	01440780622133 .1129221622279021930422607631016392 1065605077496615070780716928260431903084722319098 0097155005022301227850180645035331380219007	.4322656 .2817059 .2379211 .4097457 .149854 .2792116 .0769525 .1983225 .1323458 .1351179 .0024727 .1401017036143 .1797447 .0049201 .0230537 .0289816 .0204329 .01589470030399 .012284 .0142561

	ı					
Inflation						
dUnemploymentrate	2200566	1405633	2 22			
L1.	3309566	.1485622	-2.23	0.026	6221333	03978
L2.	4578967	1594995	2.87	0.004 0.107	1452834 - 5805948	.7705101
L3. L4.	2619787 -2256916	.1625622 .1646419	-1.61 1.37	0.107	0970007	.0566375
L5.	.1683953	1631893	1.03	0.302	1514499	4882405
L6.	- 2862224	1611582	-1.78	0.076	- 6020868	0296419
L7.	439006	1508762	2.91	0.070	143294	734718
271	1433000	12300702	2.52	01004	1145254	1,54,10
dLTGBY10Y						
L1.	.2226207	.0910774	2.44	0.015	.0441123	.4011291
L2.	0451489	.0923141	-0.49	0.625	2260812	.1357833
L3.	.1097235	.0912958	1.20	0.229	0692129	.2886598
L4.	.1085394	.0959888	1.13	0.258	0795952	.2966739
L5.	.010954	.092624	0.12	0.906	1705857	.1924936
L6.	.0167339	.0932043	0.18	0.858	- 1659432	.1994109
L7.	1512536	.0922609	-1.64	0.101	3320817	.0295745
Inflation						
L1.	.2993792	.0734818	4.07	0.000	.1553576	.4434008
L2.	2399166	.065395	-3.67	0.000	- 3680885	1117447
L3.	0076246	.0686449	-0.11	0.912	1421661	.126917
L4.	2311792 0329069	.0651428	-3.55 0.49	0.000	3588568	1035016
L5.	5394088	0689858 064773	-0.48 8.33	0.633 0.000	1681166 4124561	.1023029
L6. L7.	- 256033	0728431	-3.51	0.000	4124561 - 3988029	1132631
L/•	230033	.0/20431	-3.31	0.000	- 3300029	- 1132031
UIPRT						
L1.	.0057458	.010079	0.57	0.569	0140086	.0255003
L2.	.0036558	.0104588	0.35	0.727	- 016843	.0241547
L3.	0022532	.0100612	-0.22	0.823	0219729	.0174664
L4.	.0127336	.010445	1.22	0.223	0077384	.0332055
L5.	0152701	.0099267	-1.54	0.124	0347261	.0041858
L6.	.0065341	.0105144	0.62	0.534	0140737	.0271419
L7.	.0033231	.0103773	0.32	0.749	0170161	.0236622
UIGER	.0246526	.0366351	0.67	0.501	0471509	.0964561
_cons	1225907	.1281295	-0.96	0.339	37372	.1285386
						• • • • • • • • • • • • • • • • • • • •
UIPRT						
dUnemploymentrate						
L1.	1.065682	1.10901	0.96	0.337	-1.107939	3.239302
L2.	4799106 -2.310289	1.190657	0.40	0.687	-1.853734	2.813555
L3. L4.	5598661	1.21352 1.229044	-1.90 -0.46	0.057 0.649	-4.688744 -2.968749	.0681659 1.849017
L5.	8053113	1.218201	0.66	0.509	-1.582318	3.192941
L6.	- 4942973	1.203039	-0.41	0.681	-2.85221	1.863616
L7.	-1 180259	1.126284	-1.05	0.295	-3.387735	1.027218
dLTGBY10Y						
L1.	1842929	6798885	-0.27	0.786	-1.51685	1.148264
L2.	-2.032973	.6891203	-2.95	0.003	-3.383624	- 6823221
L3.	5045277	.6815187	-0.74	0.459	-1.84028	.8312243
L4.	.2457427	.716552	0.34	0.732	-1.158673	1.650159
L5.	.3997304	.6914337	0.58	0.563	9554548	1.754916
L6.	.4732093	.6957658	0.68	0.496	8904665	1.836885
L7.	.3154031	.6887236	0.46	0.647	-1.03447	1.665277
Inflation						
L1.	.7919404	.548538	1.44	0.149	2831743	1.867055
L2.	.0690031	.4881709	0.14	0.888	8877942	1.0258
L3.	.136151	.512431	0.27	0.790	8681953	1.140497
L4.	.5645778	.4862883	1.16	0.246	3885298	1.517685
L5.	.2906146	.5149761	0.56	0.573	71872	1.299949
L6.	.5831931	.4835272 5437705	1.21	0.228	3645029	1.530889
L7.	-1.030854	.5437705	-1.90	0.058	-2.096625	.0349168
UIPRT						
L1.	.1748002	.0752393	2.32	0.020	.027334	.3222665
L2.	- 0413513	.0780743	-0.53	0.596	- 1943741	.1116715
L3.	278087	.0751066	3.70	0.000	1308809	.4252932
L4.	0793315	0779718	1.02	0.309	0734904	2321534
		0741023	3.52	0.000	1153476	4058233
L5.	.2605854	0/41023			•	
L5. L6.	.2605854 .0300157	.0784893	0.38	0.702	1238205	.1838518
	1			0.702 0.120	1238205 0312842	.1838518 .2723778
L6.	.0300157	.0784893	0.38			
L6.	.0300157	.0784893	0.38			
L6. L7.	.0300157 .1205468	.0784893 .0774662	0.38 1.56	0.120	0312842	.2723778

VAR 22. Portugal – VAR model with 7 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• ROMANIA

Sample: 2008m5 th	ru 2022m1 2	2		Number o	fobs	-	176
Log likelihood =	171.6708	3		AIC		-	9848956
FPE =	2.58e-07	7		HQIC		-	3638486
Det(Sigma_ml) =	9.78e-08	3		SBIC		-	.546304
Equation	Parms	RMSE	R-sq	chi2	P>ch12		
dUnemploymentr~e	17	.204756	0.1604	33.63525	0.0061		
dLTGBY10Y	17	-362077	0.2161	48.5168	0.0000		
Inflation	17	.472349	0.2916	72.43418	0.0000		
UIRON	17	3.88852	0.4454	141.3179	0.0000		
dRONEUR	17	.003126	0.1174	23.40941	0.1032		

	17 .003	1126 0.1172	23.4	0941 0.	.1032	
	Coefficient	Std. err.	z	P> [z]	[95% conf.	interval
dUnemploymentrate dUnemploymentrate L1. L2. L3.	2429529 .2109601 .2220819	.0739972 .0754149 .0740723	-3.28 2.80 3.00	0.001 0.005 0.003	3879847 .0631496 .0769028	09792 -358770 -36726
dLTGBY10Y L1. L2. L3.	.1127481 .0338573 .0058418	.0432274 .0446646 .0434828	2.61 0.76 0.13	0.009 0.448 0.893	.0280238 0536837 079383	.197472 .121398 .091066
Inflation L1. L2. L3.	0109433 0262464 .0295555	.0329736 .0349655 .0330037	-0.33 -0.75 0.90	0.740 0.453 0.371	0755703 0947775 0351305	.053683 .042284 .094241
UIRON L1. L2. L3.	0001145 .0000631 0015155	.0036611 .0035681 .0038659	-0.03 0.02 -0.39	0.975 0.986 0.695	0072902 0069303 0090925	.007061 .007056 .006061
dRONEUR L1. L2. L3.	.6379835 4.240911 -1.886639	4.963025 5.182392 5.245597	0.13 0.82 -0.36	0.898 0.413 0.719	-9.089368 -5.916392 -12.16782	10.3653 14.3982 8.39454
UIGER _cons	0060917 -0445338	.0152613 .0560179	-0.40 0.79	0.690 0.427	0360034 0652592	.023819 .154326
dLTGBY10Y dUnemploymentrate L1. L2. L3.	1798211 1758288 1770818	.1308518 .1333588 .1309847	-1.37 -1.32 -1.35	0.169 0.187 0.176	- 436286 - 4372073 - 4338071	.076643 .085549 .079643
dLTGBY10Y L1. L2. L3.	- 1228708 - 236142 - 0207125	0764406 .078982 0768922	-1.61 -2.99 -0.27	0.108 0.003 0.788	- 2726916 - 3909438 - 1714185	0269 - 081340 129993
Inflation L1. L2. L3.	.1291305 0073722 007185	.0583083 .0618307 .0583615	2.21 -0.12 -0.12	0.027 0.905 0.902	.0148483 1285581 1215715	243412 113813 107201
UIRON L1. L2. L3.	.0125183 .0115633 .0150363	.0064741 .0063096 .0068362	1.93 1.83 2.20	0.053 0.067 0.028	0001708 0008033 .0016377	.025207 .023929 .028434
dRONEUR L1. L2. L3.	-16.87381 1.118108 -22.05057	8.776291 9.164205 9.275973	-1.92 0.12 -2.38	0.055 0.903 0.017	-34.07503 -16.8434 -40.23114	327 19.0796 -3.86999
UIGER _cons	- 0174013 - 3454025	0269871 0990584	-0.64 -3.49	0.519 0.000	0702951 5395533	.035492 151251
Inflation dUnemploymentrate L1. L2. L3.	.2034155 .0717448 160822	.1707036 .1739741 .1708769	1.19 0.41 -0.94	0.233 0.680 0.347	1311574 269238 4957346	.537988 .412727 .174090
dLTGBY10Y L1 L2 L3	.1693056 0038146 0663877	.0997211 .1030364 .1003102	1.70 -0.04 -0.66	0.090 0.970 0.508	0261441 2057623 2629922	364755 19813 130216
Inflation L1. L2. L3.	.320747 .0773649 0349172	.0760665 .0806616 .0761359	4.22 0.96 -0.46	0.000 0.337 0.647	.1716594 0807289 1841409	.469834 .235458 .114306
UIRON L1. L2. L3.	.0178386 0009541 0181546	.0084458 .0082312 .0089182	2.11 -0.12 -2.04	0.035 0.908 0.042	.0012851 017087 0356339	.034392 .015178 000675
dRONEUR L1. L2. L3.	-20.8835 -6.521126 -9.685328	11.44917 11.95522 12.10103	-1.82 -0.55 -0.80	0.068 0.585 0.423	-43.32345 -29.95293 -33.40291	1.55645 16.9106 14.0322
UIGER _cons	.0849065 1630871	.0352062 .1292272	2.41 -1.26	0.016 0.207	.0159036 4163677	.153909
UIRON dUnemploymentrate L1. L2. L3.	2113503 .2551414 8863292	1.405282 1.432206 1.406709	-0.15 0.18 -0.63	0.880 0.859 0.529	-2.965652 -2.55193 -3.643428	2.54295 3.06221 1.8707
dLTGBY10Y L1. L2. L3.	.1787232 .623096 .2207454	.8209331 .848226 .8257834	0.22 0.73 0.27	0.828 0.463 0.789	-1.430276 -1.039396 -1.39776	1.78772 2.28558 1.83925
Inflation L1. L2. L3.	- 3219857 1 649445 -1 276735	6262014 6640299 6267731	-0.51 2.48 -2.04	0.607 0.013 0.042	-1.549318 .3479702 -2.505188	.905346 2.95091 048282
UIRON L1. L2. L3.	.1943014 .1405492 .1048099	.0695285 .067762 .0734169	2.79 2.07 1.43	0.005 0.038 0.153	.058028 .0077381 0390846	.330574 .273360 .248704
dRONEUR L1. L2. L3.	196.1222 293.8222 -329.7473	94.2529 98.4189 99.61923	2.08 2.99 -3.31	0.037 0.003 0.001	11.38991 100.9247 -524.9974	380 854 486 719 -134 497
UIGER _cons	1.053236 1.020903	2898279 1.063836	3.63 0.96	0.000 0.337	.4851835 -1.064178	1.62128 3.10598
dRONEUR dUnemploymentrate L1. L2. L3.	.0003739 .0000113 0008862	.0011297 .0011514 .0011309	0.33 0.01 -0.78	0.741 0.992 0.433	0018403 0022454 0031027	.002588 .002267
dLTGBY10Y L1. L2. L3.	0001534 .0000742 .0008511	00066 0006819 0006639	-0.23 0.11 1.28	0.816 0.913 0.200	0014469 0012623 0004501	.001140 .001410 .002152
Inflation L1. L2. L3.	- 0001856 - 0002838 - 000477	.0005034 .0005338 .0005039	-0.37 0.53 0.95	0.712 0.595 0.344	0011723 0007624 0005106	00080 001330 001464
UIRON L1. L2. L3.	0001019 .0000478 0002124	.0000559 .0000545 .000059	-1.82 0.88 -3.60	0.068 0.381 0.000	0002115 000059 0003281	7.65e-0 .000154 000096
dRONEUR L1. L2. L3.	.0567425 0446424 .0723535	.0757719 .079121 .080086	0.75 -0.56 0.90	0.454 0.573 0.366	0917676 1997167 0846121	.205252 .110431 .229319
		.000233				.000867

VAR 23. Romania – VAR model with 3 lags for unemployment rate, inflation, long term government bond 10 years, the country's currency over euro (RON/EUR) and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

SLOVAKIA

Sample: 2008m4 th Log likelihood = FPE =	-380 6006 0013624			Number of AIC HQIC	obs	= =	177 4.75255 5.043651
<pre>Det(Sigma_ml) = Equation</pre>	.0008666 Parms	RMSE	R-sq	SBIC chi2	P>chi2	=	5.470323
dUnemploymentr~e	10	.131361	0.5225	193.6818	0.0000		

Equation	Parms	KMSE	K-Sq	CHIZ	P>CH12
dUnemploymentr~e	10	.131361	0.5225	193.6818	0.0000
dLTGBY10Y	10	.201733	0.2536	60.12934	0.0000
Inflation	10	.34647	0.3644	101.477	0.0000
UISVK	10	3.82399	0.2139	48.15722	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
dUnemploymentrate						
dUnemploymentrate						
L1. L2.	.5440457 .2296562	.0734552 .0735727	7.41 3.12	0.000 0.002	.4000762 .0854564	.6880152 .3738561
			3.22			
dLTGBY10Y						
L1. L2.	- 0592394 061009	0476249 0479291	-1.24 1.27	0.214 0.203	1525825 0329302	.0341037 1549483
	1001003	10475252	1127	01203	10323302	1134340
Inflation						
L1. L2.	0072964 0137946	0283231 028403	-0.26 -0.49	0.797 0.627	0628086 0694634	048215 041874
	10137340	1020403	0143	01027	10034034	10420747
UISVK						
L1. L2.	- 0001087 000112	.002578 0025297	-0.04 0.04	0.966 0.965	0051615 0048461	00494 005070
LZ.	.000112	.0023297	0.04	0.903	0048401	.003070
UIGER	.0069643	.0085477	0.81	0.415	009789	.023717
_cons	0294343	.0359875	-0.82	0.413	0999685	.041
dLTGBY10Y						
dUnemploymentrate						
L1.	1677852	.112806	-1.49	0.137	3888808	.0533104
L2.	.1149482	.1129864	1.02	0.309	1065011	.3363975
dLTGBY10Y						
L1.	.3290692	.0731381	4.50	0.000	.1857211	.4724173
L2.	3323137	.0736052	-4.51	0.000	4765773	188050
Inflation						
L1.	.0973794	.043496	2.24	0.025	.0121288	.182630
L2.	.0618576	.0436188	1.42	0.156	0236336	.147348
UISVK						
L1.	0026585	.0039591	-0.67	0.502	0104181	.005101
L2.	.0041746	.0038849	1.07	0.283	0034396	.011788
HTGER	0157192	0121260	1 20	0 221	01001	.041446
UIGER _cons	.0157182 1179355	.0131269 .0552664	1.20 -2.13	0.231 0.033	- 2262557	- 009615
	ļ					
Inflation						
dUnemploymentrate L1.	1092986	.1937406	-0.56	0.573	4890231	.27042
L2.	.0538191	.1940505	0.28	0.782	3265129	.434151
dLTGBY10Y L1.	.1814159	.1256123	1.44	0.149	0647797	.427611
L2.	0245729	.1264146	-0.19	0.846	- 2723409	223195
Inflation L1.	.1661117	.074703	2.22	0.026	.0196965	.31252
L2.	.3123806	0749138	4.17	0.020	.1655521	45920
UISVK						01.665.6
L1.	.0033293	.0067996 .0066722	0.49 -0.11	0.624 0.911	0099976 0138192	
	.0033293 0007421	.0067996 .0066722	0.49 -0.11	0.624 0.911	0099976 0138192	
L1. L2. UIGER	0007421 .065792	.0066722	-0.11 2.92	0.911 0.004	0138192 .0216046	.012335
L1. L2.	0007421	.0066722	-0.11	0.911	0138192	.012335
L1. L2. UIGER _cons	0007421 .065792	.0066722	-0.11 2.92	0.911 0.004	0138192 .0216046	.012335
L1. L2. UIGER _cons UISVK dUnemploymentrate	0007421 .065792 1751283	.0066722 .022545 .0949183	-0.11 2.92 -1.85	0.911 0.004 0.065	0138192 .0216046 3611648	.012335 .109979 .010908
L1. L2. UIGER _cons UISVK dUnemploymentrate L1.	0007421 .065792 1751283	.0066722 .022545 .0949183	-0.11 2.92 -1.85	0.911 0.004 0.065	0138192 .0216046 3611648	.012335 .109979 .010908
L1. L2. UIGER _cons UISVK dUnemploymentrate	0007421 .065792 1751283	.0066722 .022545 .0949183	-0.11 2.92 -1.85	0.911 0.004 0.065	0138192 .0216046 3611648	.012335 .109979 .010908
L1. L2. UIGER _cons UISVK dUnemploymentrate L1.	0007421 .065792 1751283	.0066722 .022545 .0949183	-0.11 2.92 -1.85	0.911 0.004 0.065	0138192 .0216046 3611648	.012335 .109979 .010908
L1. L2. UIGER _cons UISVK dUnemploymentrate L1. L2. dLTGBY10Y L1.	0007421 .065792 1751283 1036706 -3.975025	.0066722 .022545 .0949183 2.138314 2.141735	-0.11 2.92 -1.85 -0.05 -1.86	0.911 0.004 0.065 0.961 0.063	0138192 .0216046 3611648 -4.29469 -8.172748	.012335 .109979 .010908 4.08734 .222699
UIGER _cons UISVK dUnemploymentrate	0007421 .065792 1751283 1036706 -3.975025	.0066722 .022545 .0949183 2.138314 2.141735	-0.11 2.92 -1.85 -0.05 -1.86	0.911 0.004 0.065 0.961 0.063	0138192 .0216046 3611648 -4.29469 -8.172748	.012335 .109979 .010908 4.08734 .222699
L1. L2. UIGER _cons UISVK dUnemploymentrate L1. L2. dLTGBY10Y L1.	0007421 .065792 1751283 1036706 -3.975025	.0066722 .022545 .0949183 2.138314 2.141735	-0.11 2.92 -1.85 -0.05 -1.86	0.911 0.004 0.065 0.961 0.063	0138192 .0216046 3611648 -4.29469 -8.172748	.012335 .109979 .010908 4.08734 .222699
L1. L2. UIGER_cons UISVK dUnemploymentrate L1. L2. dLTGBY10Y L1. L2. Inflation L1.	0007421 .065792 1751283 1036706 -3.975025 .9114522 2508719	.0066722 .022545 .0949183 2.138314 2.141735 1.386383 1.395237	-0.11 2.92 -1.85 -0.05 -1.86 0.66 -0.18	0.911 0.004 0.065 0.961 0.063 0.511 0.857	0138192 .0216046 3611648 -4.29469 -8.172748 -1.805809 -2.985487	.012335 .109979 .010908 4.08734 .222699 3.62871 2.48374
L1. L2. UIGER _cons UISVK dUnemploymentrate L1. L2. dLTGBY10Y L1. L2. Inflation	0007421 .065792 1751283 1036706 -3.975025 .9114522 2508719	.0066722 .022545 .0949183 2.138314 2.141735 1.386383 1.395237	-0.11 2.92 -1.85 -0.05 -1.86 0.66 -0.18	0.911 0.004 0.065 0.961 0.063 0.511 0.857	0138192 .0216046 3611648 -4.29469 -8.172748 -1.805809 -2.985487	.012335 .109979 .010908 4.08734 .222699 3.62871 2.48374
UISVK dUnemploymentrate L1. L2. dLTGBY10Y L1. L2. Inflation L1. L2.	0007421 .065792 1751283 1036706 -3.975025 .9114522 2508719	.0066722 .022545 .0949183 2.138314 2.141735 1.386383 1.395237	-0.11 2.92 -1.85 -0.05 -1.86 0.66 -0.18	0.911 0.004 0.065 0.961 0.063 0.511 0.857	0138192 .0216046 3611648 -4.29469 -8.172748 -1.805809 -2.985487	.012335: .109979: .010908: 4.08734: .222699: 3.62871: 2.48374:
L1. L2. UIGER_cons UISVK dUnemploymentrate L1. L2. dLTGBY10Y L1. L2. Inflation L1.	0007421 .065792 1751283 1036706 -3.975025 .9114522 2508719	.0066722 .022545 .0949183 2.138314 2.141735 1.386383 1.395237	-0.11 2.92 -1.85 -0.05 -1.86 0.66 -0.18	0.911 0.004 0.065 0.961 0.063 0.511 0.857	0138192 .0216046 3611648 -4.29469 -8.172748 -1.805809 -2.985487	.012335: .109979; .010908: 4.08734; .222699; 3.62871; 2.48374; 3.87706; .187311;
UISVK UIGER_cons UISVK dUnemploymentrate L1. L2. dLTGBY10Y L1. L2. Inflation L1. L2. UISVK	0007421 .065792 1751283 1036706 -3.975025 .9114522 2508719 2.261082 -1.433233	.0066722 .022545 .0949183 2.138314 2.141735 1.386383 1.395237	-0.11 2.92 -1.85 -0.05 -1.86 -0.18	0.911 0.004 0.065 0.961 0.063 0.511 0.057	0138192 .0216046 3611648 -4.29469 -8.172748 -1.805809 -2.985487 .6450968 -3.053779	.012335 .109979 .010908 .010908 .010908 .010908 .022699 .022699 .022699 .022699 .022699 .022699 .022699 .022699 .022699 .022699 .022699 .022699 .022699 .022699 .022699 .022699 .022699 .0226999 .02269 .02269 .02269 .02269 .02269 .02269 .02269 .02269 .022699 .02269 .02269 .02269 .02269 .02269 .02269 .02269 .02269 .022699 .02269 .02269 .02269 .02269 .02269 .02269 .02269 .02269 .0226
UISVK dUnemploymentrate L1. L2. dLTGBY10Y L1. L2. Inflation L1. L2. UISVK L1.	0007421 .065792 1751283 1036706 -3.975025 .9114522 2508719 2.261082 -1.433233	.0066722 .022545 .0949183 2.138314 2.141735 1.386383 1.395237 .8244972 .8268241	-0.11 2.92 -1.85 -0.05 -1.86 -0.18	0.911 0.004 0.065 0.961 0.063 0.511 0.857	0138192 .0216046 3611648 -4.29469 -8.172748 -1.805809 -2.985487 .6450968 -3.053779	.016656: .012335; .109979; .010908; 4.08734; .222699; 3.62871; 2.48374; 3.87706; .187311; .334156; .136925;

VAR 24. Slovakia – VAR model with 2 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

• SLOVENIA

Sample: 2008m4 Log likelihood FPE Det(Sigma_ml)		u 2022m12 -717.966 0616403 0392071			Number of AIC HQIC SBIC	f obs	= = =	177 8.564587 8.855688 9.282361
Equation		Parms	RMSE	R-sq	chi2	P>chi2		
dUnemploymentr dLTGBY10Y Inflation UISVN	~e	10 10 10 10	.159514 .271624 .654859 7.94	0.4440 0.2348 0.1335 0.1631	141.3693 54.30035 27.27473 34.49149	0.0000 0.0000 0.0013 0.0001		

	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
dUnemploymentrate						
dUnemploymentrate L1.	.6930882	.0721707	9.60	0.000	.5516363	.8345401
L2.	1849908	0725696	-2.55	0.011	- 3272247	- 0427569
dLTGBY10Y						
L1.	.0046142	.043244	0.11	0.915	0801424	.0893708
L2.	1122698	.0446766	-2.51	0.012	1998343	0247053
Inflation						
L1.	- 0191913	.0179937	-1.07	0.286	0544583	.0160758
L2.	.0077224	.0180122	0.43	0.668	0275808	.043025
UISVN						
L1.	0017854	.0014952	-1.19	0.232	0047159	.0011452
L2.	0021145	.0014795	-1.43	0.153	0050142	.0007853
UIGER	.0063142	.0097651	0.65	0.518	0128251	.025453
_cons	.0107218	.0397422	0.27	0.787	- 0671715	08861
dLTGBY10Y dUnemploymentrate						
L1.	.4160469	.1228938	3.39	0.001	1751794	.6569144
L2.	- 1618104	1235732	-1.31	0.190	4040094	.0803887
dLTGBY10Y						
L1.	.3867027	.0736368	5.25	0.000	.2423773	.5310282
L2.	- 1122838	0760763	-1.48	0.140	- 2613905	03682
Inflation L1.	.001285	.0306401	0.04	0.967	0587685	.061338
L2.	0444386	0306716	1.45	0.147	0156765	.104553
UISVN L1.	.0003993	.0025461	0.16	0.875	0045909	.005389
L2.	0029881	0025193	1.19	0.236	- 0019497	0079259
UIGER _cons	0297595 - 1709768	.0166283 .0676739	1.79 -2.53	0.074 0.012	0028312 3036152	0623503
	-11709708		-2.33		3030132	030330-
Inflation						
dUnemploymentrate L1.	3703775	.2962849	-1.25	0.211	9510852	.2103302
L2.	4769387	2979228	1.60	0.109	1069792	1 06085
dLTGBY10Y L1.	.095312	.177531	0.54	0.591	2526423	.4432664
L2.	0184707	1834124	-0.10	0.920	3779523	.3410109
Inflation L1.	.3014144	.0738702	4.08	0.000	1566214	446107
L2.	- 1734641	0739461	-2.35	0.019	.1566314 3183957	4461974
UISVN	0016241	0051303		0.701	013655	.010406
L1. L2.	.0018768	.0061383 .0060738	-0.26 0.31	0.791 0.757	- 013655	010406
UIGER	.0502869	.0400891	1.25	0.210	0282863	.12886
_cons	0757984	.163155	-0.46	0.642	3955764	.243979
UISVN						
dUnemploymentrate						
L1. L2.	-2.180454 1.059869	3.592375 3.612234	-0.61 0.29	0.544 0.769	-9.22138 -6.01998	4.86047 8.13971
	1.033003	3.012234	0.23	0.703	-0.01990	0.139/1
dLTGBY10Y						
L1. L2.	5.620899 -2.598512	2.152516 2.223826	2.61 -1.17	0.009 0.243	1.402045 -6.957131	9.839753
LZ.	-2.390312	2.223020	-1.1/	0.243	-0.55/131	1./0010
Inflation						
L1.	9121054	.8956572	-1.02	0.309	-2.667561	8433504
L2.	1.634003	.8965766	1.82	0.068	1232547	3.39126
UISVN						
L1.	.1177393	.0744257	1.58	0.114	0281324	.2636109
L2.	.0215069	.0736438	0.29	0.770	1228322	.165846
	.0215069 1.479102	.4860695	0.29 3.04	0.770	1228322 .5264235	.165846

VAR 25. Slovenia – VAR model with 2 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

SPAIN

Sample: 2008m5 th	hru 2022m12	Number of obs	=	176
Log likelihood =	-303.2739	AIC	=	4.082657
FPE =	.0006979	HQIC	=	4.491818
Det(Sigma_ml) =	.0003688	SBIC	=	5.091448

Equation	Parms	RMSE	R-sq	chi2	P>chi2	
dUnemploymentr~e	14	.162907	0.7065	423.6856	0.0000	
dLTGBY10Y	14	.222902	0.2391	55.31562	0.0000	
Inflation	14	.589328	0.2554	60.379	0.0000	
UIESP	14	1.09778	0.8219	812.1053	0.0000	

	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
dUnemploymentrate						
dUnemploymentrate dUnemploymentrate						
L1.	.65664	.0731784	8.97	0.000	.513213	.800067
L2. L3.	.2772977 0741429	.0832822 .0737274	3.33 -1.01	0.001 0.315	.1140676 2186459	.4405279
dLTGBY10Y L1.	0816577	.0540034	-1.51	0.131	1875025	.0241871
L2.	- 0358794	0545696	-0.66	0.511	- 1428339	.0710751
L3.	.0878389	.0529788	1.66	0.097	0159976	.1916754
Inflation						
L1.	.0189942	.0187561	1.01	0.311	0177671	.0557555
L2. L3.	- 031738 0270084	.0192671 .0193909	-1.65 1.39	0.100 0.164	0695007 0109972	.0060248
23.	10270004	.0133303	1.33	0.104	0103372	.005015
UIESP						
L1. L2.	- 0072411 0234093	.0108071 .0120474	-0.67 1.94	0.503 0.052	- 0284227 - 0002032	013940
L3.	- 0229722	.010334	-2.22	0.026	0432264	- 0027179
HICED	010700	013403	1 50	0 133	0056859	.043282
UIGER _cons	018798 - 0498789	012492 0429421	1.50 -1.16	0.132 0.245	1340438	.034286
dLTGBY10Y dUnemploymentrate						
L1.	.1642151	.1001284	1.64	0.101	0320331	.3604632
L2.	- 1630746	.1139533	-1.43	0.152	386419	.0602698
L3.	.0624619	.1008796	0.62	0.536	- 1352584	.2601823
dLTGBY10Y						
L1.	.1459301	.0738917	1.97	0.048 0.026	.001105	.2907553 0193631
L2. L3.	- 1657067 - 0828094	.0746665 .0724898	-2.22 -1.14	0.026	- 3120503 - 2248867	0592679
Inflation L1.	.0705091	.0256636	2.75	0.006	.0202094	. 1208089
L2.	.0164876	.0263627	0.63	0.532	0351824	.0681576
L3.	.054654	.0265322	2.06	0.039	.0026518	.1066562
UIESP						
L1.	0303012	.0147872	-2.05	0.040	0592835	0013189
L2. L3.	.0014427 .0167467	.0164842 .0141398	0.09 1.18	0.930 0.236	- 0308658 - 0109668	0337511
L3.	10107407	.0141390	1.10	0.230	0109000	.044400
UIGER	.0660029	.0170926	3.86	0.000	032502	.0995038
_cons	2486421	.0587567	-4.23	0.000	3638031	133481
Inflation						
dUnemploymentrate L1.	2752141	.2647287	-1.04	0.299	7940729	.2436447
L2.	015889	.3012802	0.05	0.958	- 5746093	.6063873
L3.	.047013	.2667147	0.18	0.860	4757382	.5697642
dLTGBY10Y						
L1.	.4618203	.1953617	2.36	0.018	.0789184	8447223
L2. L3.	- 1764964 1736357	19741 1916551	-0.89 0.91	0.371 0.365	- 5634129 - 2020014	.2104202
L3.	.1/3633/	.1910551	0.91	0.365	2020014	. 5492727
Inflation						
L1. L2.	1192399 0549232	.0678518 .0697002	1.76 -0.79	0.079 0.431	- 0137472 - 191533	. 2522269
L3.	4418422	.0701483	-6.30	0.000	- 5793304	- 3043541
UIESP L1.	001086	.0390956	-0.03	0.978	0777121	.0755401
L2.	.0206221	.0435825	0.47	0.636	064798	1060422
L3.	0215431	.037384	-0.58	0.564	0948144	.0517283
UIGER	.0718431	.045191	1.59	0.112	0167296	.1604158
_cons	0941508	.1553464	-0.61	0.544	398624	-2103225
UIESP						
dUnemploymentrate						
L1.	- 5202763 1069199	.4931295	-1.06	0.291	-1.486792 9930443	.4462398
L2. L3.	- 1563428	.5612165 .4968289	0.19 -0.31	0.849 0.753	- 9930443	1.206884 8174239
dLTGBY10Y L1.	1550806	3639146	-0.43	0.670	8683401	.5581788
L2.	7278971	3677301	-1.98	0.048	-1.448635	- 0071594
L3.	06841	.3570098	-0.19	0.848	7681365	.6313164
Inflation						
L1.	1477983	.1263925	-1.17	0.242	395523	.0999263
L2.	0295404	.1298356	-0.23	0.820	2840134	.2249326
L3.	.2631919	.1306703	2.01	0.044	.0070828	.519301
UIESP	1					
L1.	.484268	0728263	6.65	0.000	.341531	6270049
L2. L3.	.1539969 .1437195	.0811843 .069638	1.90 2.06	0.058 0.039	- 0051213 0072316	.3131152
UIGER	.3668762	.0841805	4.36	0.000	2018854	.531867
_cons	4319282	-289375	-1.49	0.136	9990927	. 1352364

VAR 26. Spain – VAR model with 3 lags for unemployment rate, inflation, long term government bond 10 years and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.

SWEDEN

Vector autoreg	ress	ion						
Sample: 2008m4	thr	u 2022m12			Number of	obs	=	
Log likelihood	=	342.5287			AIC		=	-3.192
FPE	=	2.83e-08			HQIC		=	-2.755
Det(Sigma_ml)	=	1.43e-08			SBIC		=	-2.115
Equation		Parms	RMSE	R-sq	chi2	P>chi2		
dUnemploymentr	~e	12	.343382	0.2458	57.69784	0.0000		
dLTGBY10Y		12	.168498	0.1679	35.70762	0.0002		
Inflation		12	.462324	0.2105	47.18079	0.0000		
		12	3.1752	0.3901	113 2149	0.0000		
UISWE								

dSEKEUR		1792 0.041			7443	
	Coefficient	Std. err.	z	P> z	[95% conf	. interval]
dUnemploymentrate dUnemploymentrate L1.	4678044 2291922	.0718166 .071752	-6.51 -3.19	0.000 0.001	6085624 3698235	3270464 0885609
dLTGBY10Y L1. L2.	.2068617 2885186	.1601937 .1600327	1.29 -1.80	0.197 0.071	1071122 6021769	.5208355 .0251398
Inflation L1. L2.	0045172 .0349837	.0570903 .0566308	-0.08 0.62	0.937 0.537	1164121 0760107	.1073776 .1459781
UISWE L1. L2.	008092 .0162094	.0085052 .0081101	-0.95 2.00	0.341 0.046	0247619 .0003139	.0085779 .0321049
dSEKEUR L1. L2.	7.360182 -1.868625	14.66656 14.72553	0.50 -0.13	0.616 0.899	-21.38574 -30.73014	36.1061 26.99289
UIGER _cons	0571186 .1880656	0255518 09203	-2.24 2.04	0.025 0.041	1071992 .00769	0070381 .3684411
dLTGBY10Y dUnemploymentrate L1. L2.	0430962 0251984	.0352405 .0352088	-1.22 -0.72	0.221 0.474	1121664 0942064	.0259739 .0438096
dLTGBY10Y L1. L2.	.3440728 1165918	.0786073 .0785283	4.38 -1.48	0.000 0.138	.1900053 2705045	.4981403 .0373208
Inflation L1. L2.	.0134317 0101013	.0280143 .0277888	0.48 -0.36	0.632 0.716	0414753 0645665	.0683387 .0443638
UISWE L1. L2.	002717 .0036125	.0041735 .0039796	-0.65 0.91	0.515 0.364	0108969 0041874	.005463 .0114125
dSEKEUR L1. L2.	8.433771 3.518916	7.196902 7.225842	1.17 0.49	0.241 0.626	-5.671898 -10.64347	22.53944 17.68131
UIGER _cons	017494 - 0887478	.0125383 .0451593	1.40 -1.97	0.163 0.049	0070806 1772584	.0420686 0002373
Inflation dUnemploymentrate L1. L2.	1122424 1659822	.0966929 .0966059	-1.16 -1.72	0.246 0.086	3017571 3553262	.0772722 .0233618
dLTGBY10Y L1. L2.	1441738 -4945035	.2156825 .2154658	-0.67 2.30	0.504 0.022	5669039 .0721983	.2785562 .9168087
Inflation L1. L2.	1084581 -010075	.0768655 .076247	-1.41 0.13	0.158 0.895	2591117 1393663	.0421956 .1595164
UISWE L1. L2.	.0159008 0050008	.0114513 .0109193	1.39 -0.46	0.165 0.647	0065433 0264023	.0383449 .0164007
dSEKEUR L1. L2.	6.081031 21.57542	19.74685 19.82625	0.31 1.09	0.758 0.276	-32.62208 -17.28332	44.78414 60.43416
UIGER _cons	.1225755 4211489	.0344025	3.56 -3.40	0.000 0.001	.0551478 664004	.1900032 1782938
UISWE dUnemploymentrate L1. L2.	.1918074 .4159696	.6640783 .6634806	0.29 0.63	0.773 0.531	-1.109762 8844284	1.493377 1.716368
dLTGBY10Y L1. L2.	2.387424 -1.677605	1.481289 1.4798	1.61 -1.13	0.107 0.257	5158486 -4.57796	5.290696 1.22275
Inflation L1. L2.	.6154397 1.191601	.5279056 .5236575	1.17	0.244 0.023	4192363 .1652515	1.650116 2.217951
UISWE L1. L2.	.320632 .0173278	.0786464 .0749929	4.08 0.23	0.000 0.817	.166488 1296556	.474776 .1643112
dSEKEUR L1. L2.	-132.5986 30.02681	135.6196 136.1649	-0.98 0.22	0.328 0.825	-398.4081 -236.8516	133.2109 296.9052
UIGER _cons	7239853 1 842051	.2362735 .8509889	3.06 2.16	0.002 0.030	.2608978 .1741431	1.187073 3.509958
dSEKEUR dUnemploymentrate L1. L2.	.0001413 .0002999	.0003747 .0003744	0.38 0.80	0.706 0.423	0005932 000434	.0008758 .0010337
dLTGBY10Y L1. L2.	.0010928 .0005144	.0008359 .0008351	1.31 0.62	0.191 0.538	0005455 0011223	.0027311 .0021511
Inflation L1. L2.	0002999 0001323	.0002979 .0002955	-1.01 -0.45	0.314 0.654	0008838 0007115	.000284 .0004468
UISWE L1. L2.	00007 .0000328	.0000444 .0000423	-1.58 0.77	0.115 0.439	000157 0000502	.000017 .0001157
dSEKEUR L1. L2.	0995006 .0332401	.0765311 .0768388	-1.30 0.43	0.194 0.665	2494988 1173613	.0504976 .1838414
UIGER _cons	.0000354 .0001181	.0001333	0.27 0.25	0.791 0.806	0002259 0008231	.0002967

VAR 27. Sweden – VAR model with 2 lags for unemployment rate, inflation, long term government bond 10 years, the country's currency over euro (SEK/EUR) and Uncertainty Index, with exogenous variable the Uncertainty Index of Germany.