

Appendices

Appendix 1: Stoxx Europe 600 factsheet

BROAD INDICES

STOXX® EUROPE 600 INDEX

Stated objective

The STOXX Global 1800 derived benchmark indices are designed to provide a broad yet investable representation of the world's developed markets of Europe, North America and Asia/Pacific, represented by the STOXX Europe 600, the STOXX North America 600 and the STOXX Asia/Pacific 600 indices. The STOXX Global 1800 Index is a combination of all three indices. The EURO STOXX Index, a Eurozone subset, is derived from the STOXX Europe 600, as is the STOXX Nordic, a subset covering the Nordic region (Denmark, Finland, Iceland, Norway and Sweden).

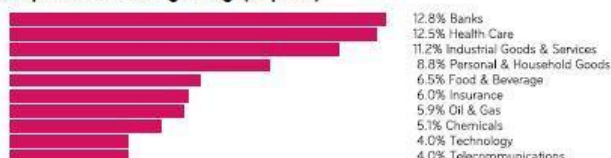
Key facts

- » Broad and liquid index benchmarks with well-balanced diversification of all regions: Europe, North America and Asia/Pacific are each represented by 600 components
- » Broad number of components
- » Index composition/design strictly rules based, objective and transparent
- » Serve as benchmarks for the relevant regions/actively managed funds
- » Serve as an underlying for a variety of financial products, are used for academic research and receive wide media coverage

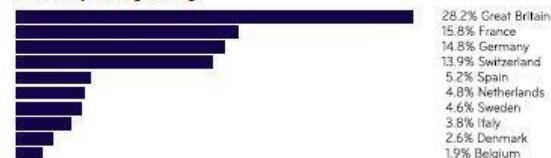
Descriptive statistics

Index	Market cap (EUR bn.)		Components (EUR bn.)				Component weight (%)		Turnover (%)
	Full	Free-float	Mean	Median	Largest	Smallest	Largest	Smallest	Last 12 months
STOXX Europe 600 Index	10,055.4	8,155.5	13.6	5.6	223.4	1.2	2.7	0.0	2.6
STOXX Europe Total Market Index	11,183.9	8,818.8	8.1	2.4	223.4	0.1	2.5	0.0	2.8

Supersector weighting (top 10)



Country weighting



Risk and return figures¹

Index returns	Return (%)					Annualized return (%)				
	Last month	YTD	1Y	3Y	5Y	Last month	YTD	1Y	3Y	5Y
STOXX Europe 600 Index	3.4	6.3	17.1	26.0	72.1	44.5	26.5	16.3	7.8	11.2
STOXX Europe Total Market Index	3.3	6.1	17.2	26.1	73.1	43.0	25.7	16.5	7.8	11.3
Index volatility and risk	Annualized volatility (%)					Annualized Sharpe ratio ²				
STOXX Europe 600 Index	7.7	8.0	15.4	17.5	16.0	4.9	3.1	0.9	0.4	0.7
STOXX Europe Total Market Index	7.8	7.9	15.3	17.4	15.8	4.7	3.0	1.0	0.4	0.7
Index to benchmark	Correlation					Tracking error (%)				
STOXX Europe 600 Index	1.0	1.0	1.0	1.0	1.0	0.3	0.3	0.4	0.4	0.4
Index to benchmark	Beta					Annualized information ratio				
STOXX Europe 600 Index	1.0	1.0	1.0	1.0	1.0	3.5	2.4	-0.2	0.0	-0.2

¹ For information on data calculation, please refer to [STOXX calculation reference guide](#).

² Based on Euribor1m

(EUR, gross return), all data as of Mar. 31, 2017

STOXX

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BROAD INDICES

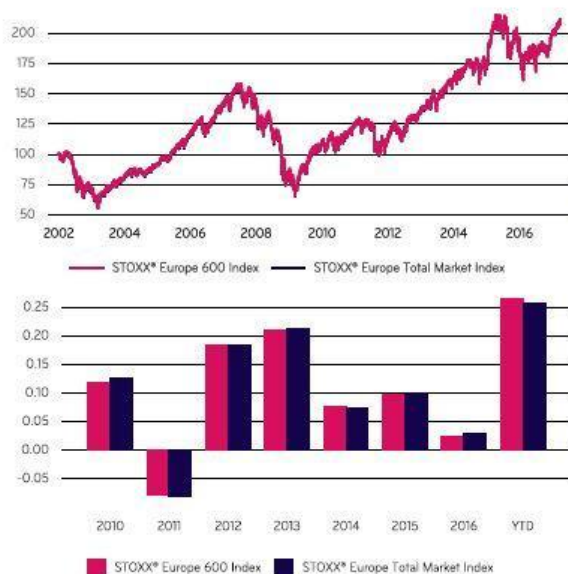
STOXX® EUROPE 600 INDEX

2

Fundamentals (for last 12 months)

Index	Price/earnings incl. negative		Price/earnings excl. negative		Price/ book	Dividend yield (%) ⁴	Price/ sales	Price/ cash flow
	Trailing	Projected	Trailing	Projected				
STOXX Europe 600 Index	25.0	15.3	19.6	15.2	1.8	4.1	1.2	16.7
STOXX Europe Total Market Index	24.7	15.3	19.3	15.2	1.8	4.1	1.1	13.3

Performance and annual returns³



Methodology

The Global 1800 Index is a combination of the 600 largest stocks measured by free-float market cap of the following regions: Europe, the Americas, Asia/Pacific. The STOXX North America 600 comprises the 600 largest stocks from the STOXX North America TMI. The STOXX Asia/Pacific 600 comprises the 600 largest stocks from the STOXX Asia/Pacific TMI. The EURO STOXX and STOXX Nordic indices are derived from the STOXX Europe 600 Index. The detailed methodology including the calculation formula can be found in our rulebook : <http://www.stoxx.com/indices/rulebooks.html>

Versions and symbols

Index	ISIN	Symbol	Bloomberg	Reuters
Gross Return AUD	CH0271081603	SXXAGU		.SXXAGU
Net Return AUD	CH0271081629	SXXAU		.SXXGDD
Price AUD	CH0271081645	SXXAA		.SXXAU
Gross Return CAD	CH0148120766	SXXGDA	SXXGDA INDEX	.SXXGDA
Net Return CAD	CH0148120768	SXXDA	SXXDA INDEX	.SXXDA
Price CAD	CH0148120741	SXXCA	SXXCA INDEX	.SXXCA
Gross Return CHF	CH0271081611	SXXGDD		.SXXCHD
Net Return CHF	CH0271081637	SXXCHD		.SXXAA
Price CHF	CH0271081652	SXXCHC		.SXXCHC
Gross Return EUR	CH0102635015	SXXGR	SXXGR INDEX	.SXXGR

Complete list available here: www.stoxx.com/data/vendor_codes.html

Quick facts

Weighting	Free-float market cap
Cap factor	20% for Global, Europe, North America, Asia/Pacific and Eurozone; no cap for Nordic Index
No. of components	600 for the three regional indices; 1,800 for the combined index; variable for Eurozone and Nordic subset
Review frequency	Quarterly (Mar., Jun., Sep., Dec.)

To learn more about the inception date, currency versions, calculation hours and historical values, please see our data vendor code sheet.

³ STOXX data from Jan. 03, 2002 to Mar. 31, 2017

⁴ gr. div. yield is calculated as gr. return index return minus price index return

(EUR, gross return), all data as of Mar. 31, 2017

CONTACT DETAILS

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STOXX is part of Deutsche Boerse Group

CUSTOMIZATION

The index can be used as a basis for the definition of STOXX® Customized Indices, which can be tailored to specific client or mandate needs. STOXX offers a wide range of customization, in terms of component selection, weighting schemes and personalized calculation methodologies.

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BACKTESTED PERFORMANCE

This document contains index performance data based on backtesting, i.e. calculations of how the index might have performed prior to launch if it had existed using the same index methodology and based on historical constituents. Backtested performance information is purely hypothetical and is provided in this document solely for information purposes. Backtested performance does not represent actual performance and should not be interpreted as an indication of actual performance.

BROAD INDICES

STOXX[®] EUROPE 600 INDEXTop 10 Components⁵

Company	Supersector	Country	Weight (%)
NESTLE	Food & Beverage	CH	2.74
NOVARTIS	Health Care	CH	2.24
ROCHE HLDG P	Health Care	CH	2.06
HSBC	Banks	GB	1.88
TOTAL	Oil & Gas	FR	1.43
BRITISH AMERICAN TOBACCO	Personal & Household Goods	GB	1.42
SIEMENS	Industrial Goods & Services	DE	1.34
ROYAL DUTCH SHELL A	Oil & Gas	GB	1.34
BP	Oil & Gas	GB	1.28
SANOFI	Health Care	FR	1.22

⁵ Based on the composition as of Mar. 31, 2017

Appendix 2: Bloomberg Barclay's Euro Aggregate Bond Index factsheet

IEAG

ISHARES BARCLAYS EURO AGGREGATE BOND

FOR UK AND IRELAND INVESTORS ONLY

All data as at 30 September 2009

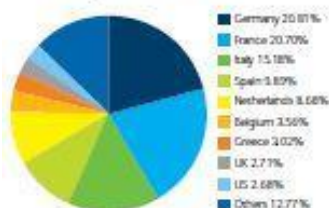
Fund description

iShares Barclays Euro Aggregate Bond provides exposure to a basket of Euro-denominated investment grade bonds, including treasury bonds, securitised bonds and corporate bonds. Inclusion in the fund is based on the currency of the issue (i.e. Euros) and not the domicile of the issuer. The iShares Barclays Euro Aggregate Bond offers a high level of diversification among global investment grade debt investments.

iShares Barclays Euro Aggregate Bond is an exchange traded fund (ETF) managed by BlackRock and is listed on the London Stock Exchange. That means you can buy shares in iShares Barclays Euro Aggregate Bond through a broker as you would buy any ordinary share.

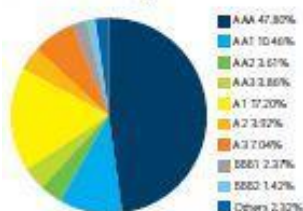
iShares ETFs are a simple and cost-effective way to gain exposure to different markets. The aim of iShares ETFs is to offer investors returns based on the performance of the relevant underlying index. Using ETFs as building blocks, you can spread the risk of individual companies, entire sectors or even whole countries suffering losses. However, they will not mitigate all market risk, and you can still lose some, or all of your investment should the value of the underlying bonds decrease. Note that investment in iShares Barclays Euro Aggregate Bond may be affected by interest rates movements. For more details please refer to the prospectus.

Country allocation



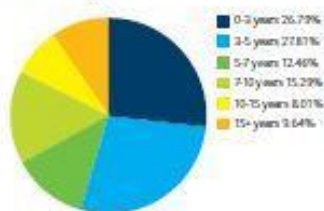
Others include: Austria 2.57%, Luxembourg 2.43%, Ireland 1.71%, Sweden 0.82%, Australia 0.79%, Finland 0.7%, Norway 0.63%, Switzerland 0.61%, Luxembourg 0.52%, Cash 0.52%, Canada 0.34%, Denmark 0.27%, Poland 0.24%, Portugal 0.22%, Cayman Islands 0.13%, Czech Republic 0.11%, Hungary 0.11% and Guernsey 0.05%.

Credit rating



Others include: BBB3 0.72%, N/A 1.07% and Cash 0.53%.

Maturity



Source: BlackRock Advisors (UK) Limited

Fund facts

UCITS II compliant	Yes
Umbrella company	Shares II plc
UK distributor status	Yes
Benchmark index	Barclay's Capital Euro Aggregate Bond Index
Fund value	€47.5m
Total expense ratio	0.25%
Number of holdings	390
ETF methodology	Sampled
Inception date	6 March 2009
Base currency	EUR
Flat yield	4.21% pa
Yield to maturity (%)	2.96% pa
Modified duration (%)	5.22
Maturity (years)	6.96 years
London Stock Exchange (Non Sterling)	Exch code: IEAG Reuters: IEAG.L Bloomberg: IEAG.LN SEDOL™: B3D0KQ4
London Stock Exchange	Trading currency: EUR Exch code: SEAG Reuters: SEAG.L Bloomberg: SEAG.LN Bloomberg INAV: INAVEABC SEDOL™: B3D0KZ3
	Trading currency: GBP

This fund is also listed on:
Borsa Italiana
NYSE Euronext Amsterdam
XETRA Deutsche Borse

Bloomberg INAV	INAVEABC<index>
Reuters INAV page	Shares
ISIN	IE00B3D0KQ41
Total return index ticker	ISEATREU<index>+go
Use of income	Distributing
Dividend frequency	January and July
The next dividend payment for this fund will be 27 January 2010	
1st distribution for the accounting year ending 30 June 2010	
Ex date	24 June 2009
Record date	26 June 2009
Pay date	22 July 2009
Dividend rate per share	€0.9827
Underlying index rebalance frequency	Monthly
ISA/SIPP available?	Yes*

Source: BlackRock Advisors (UK) Limited and Bank of Ireland

*Please contact your broker or financial adviser for further information.

Yield Information

The level of the yield may be subject to fluctuation. The difference between the redemption and the running (or income) yield is because the redemption yield takes into account expected capital payments as well as income payments should the bonds be held until maturity. The running (or income) yield gives an indication of the income to be paid based on the fund's current holdings. The Gross redemption yield figures quoted are predictions and not guaranteed.

iShares Barclays Euro Aggregate Bond

Top 10 holdings

Issuer	Rating	% of Fund	% of Index
BTPS 4.250% 01/08/2013	A1	1.69	0.38
BTPS 3.750% 01/08/2021	A1	1.53	0.31
BTPS 5.500% 01/11/2010	A1	1.35	0.32
OBL 2.250% 11/04/2014	AAA	1.28	0.27
BTPS 6.000% 01/05/2031	A1	1.25	0.50
BTPS 3.750% 01/08/2016	A1	1.20	0.39
FRTR 4.750% 25/10/2012	AAA	1.19	0.31
DBR 5.000% 04/01/2012	AAA	1.17	0.40
DBR 4.500% 04/01/2013	AAA	1.17	0.38
FRTR 4.000% 25/04/2014	AAA	1.14	0.30

Source: BlackRock Advisors (UK) Limited
The ratings above are an average taken from S&P, Moody's and Fitch rating agencies.

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Appendix 3: OLS regression

The OLS regression consists in drawing a straight line in the middle of a dataset, such as it minimizes the sum of squared residuals. The residuals are the difference between the straight line and the actual observed value, as represented in the illustration below.

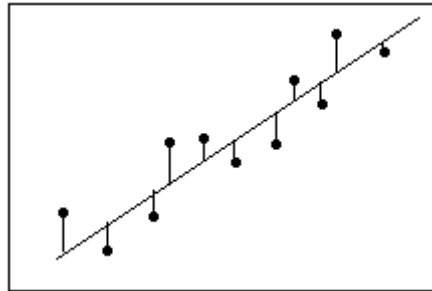


Illustration of residuals

By minimizing this difference, we obtained the best suitable linear model for our given dataset.

More precisely, the model of a multiple regression can be noted as followed:

$$y_t = \beta_1 + \beta_2 x_{2t} + \beta_3 x_{3t} + \dots + \beta_k x_{kt} + u_t ; t = 1; 2; \dots; T$$

With:

y_t = The dependent variable

x_{kt} = The independent variables

β_{kt} = The coefficients of the independent variables

u_t = The disturbance or error term

Here it is important to note the special characteristic of x_1 , which is a constant term that could be represented as followed:

$$x_1 = \begin{bmatrix} 1 \\ 1 \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ 1 \end{bmatrix}$$

The length of the column x_1 is T. As a consequence of this β_1 is the coefficient of the constant term x_1 .

In fact, we could write one separate equation for every value of t up until T :

$$\begin{aligned} y_t &= \beta_1 + \beta_2 x_{2t} + \beta_3 x_{3t} + \dots + \beta_k x_{kt} + u_t \\ y_t &= \beta_1 + \beta_2 x_{22} + \beta_3 x_{32} + \dots + \beta_k x_{k2} + u_2 \\ \dots &= \dots \quad \dots \quad \dots \quad \dots \quad \dots \quad \dots \\ y_t &= \beta_1 + \beta_2 x_{2T} + \beta_3 x_{3T} + \dots + \beta_k x_{kT} + u_T \end{aligned}$$

Under a matrix form you could write this as:

$$y = X \beta + u$$

With:

$$y = T \times 1$$

$$X = T \times k$$

$$\beta = k \times 1$$

$$u = T \times 1$$

This is the true relationship model of our population. This equation represents the true relationship between our dependent and independent variables. However, as we don't observe the entire population but only a part of the population, we **do not** know the true relationship of the variables. We can only estimate the true relationship with the help of the OLS method and based on our sample, which represents only a part of the entire population.

Now, in order to demonstrate the methodology of the OLS method, we will assume that k is 2, meaning that we have 2 regressors and one of them is the constant term. The matrix will look as follows:

$$\begin{bmatrix} y_1 \\ y_2 \\ \cdot \\ \cdot \\ \cdot \\ y_T \end{bmatrix} = \begin{bmatrix} 1 & x_{21} \\ 1 & x_{22} \\ \cdot & \cdot \\ \cdot & \cdot \\ \cdot & \cdot \\ 1 & x_{2T} \end{bmatrix} \begin{bmatrix} \beta_1 \\ \beta_2 \end{bmatrix} + \begin{bmatrix} u_1 \\ u_2 \\ \cdot \\ \cdot \\ \cdot \\ u_T \end{bmatrix}$$

$$T \times 1 \quad T \times 2 \quad 2 \times 1 \quad T \times 1$$

The disturbance term under the matrix form can be defined as following:

$$\hat{u} = \begin{bmatrix} \hat{u}_1 \\ \hat{u}_2 \\ \cdot \\ \cdot \\ \hat{u}_T \end{bmatrix}$$

The Residual Sum of Square or simply the RSS is given by:

$$\hat{u}'\hat{u} = [\hat{u}_1 \quad \hat{u}_2 \quad \cdot \quad \cdot \quad \hat{u}_T] \begin{bmatrix} \hat{u}_1 \\ \hat{u}_2 \\ \cdot \\ \cdot \\ \hat{u}_T \end{bmatrix} = \hat{u}_1^2 + \hat{u}_2^2 + \dots + \hat{u}_T^2 = \sum \hat{u}_t^2$$

Now, as already mentioned beforehand, in order to obtain the different estimators $\beta_1, \beta_2, \dots, \beta_k$ we have to minimize the RSS, so in this case, $\sum \hat{u}_t^2$ with respect to all the β 's. So, by minimizing $\hat{u}'\hat{u}$ we get:

$$\text{Min}_{\beta} \hat{u}'\hat{u} = (y - X\beta)'(y - X\beta)$$

$$\Leftrightarrow \text{Min}_{\beta} \hat{u}'\hat{u} = y'y - 2\beta'X'y + \beta'X'X\beta$$

$$\frac{\delta(\hat{u}'\hat{u})}{\delta\beta} = -2X'y + 2X'X\beta = 0$$

$$X'X\beta = X'y$$

And finally, we have:

$$\hat{\beta} = \begin{bmatrix} \hat{\beta}_1 \\ \hat{\beta}_2 \\ \cdot \\ \cdot \\ \cdot \\ \hat{\beta}_k \end{bmatrix} = (X'X)^{-1}X'y$$

This procedure represents the derivation of the OLS estimators' β in a multiple regression analysis. This is the method that we are going to use in this research paper to estimate the coefficients of our explanatory variables.

The equation of the line, which represents the predictive model, is given by:

$$\hat{y} = \hat{\beta}_0 + \hat{\beta}_1x_1 + \cdots + \hat{\beta}_nx_n$$

We will use this regression method during the second part of our analysis in order to form a forecast model and to understand which factors have an impact on correlation.

Appendix 4: Descriptive statistics

We will analyze the descriptive statistics of our correlation in more detail. In fact, we can observe that over the course of our observation period the correlation is negative as well as positive. This is coherent with our literature review that suggests that the correlation is dynamic over time (Scruggs & Glabadanidis, 2003). However, the average, as well as the median of our computed correlation, is negative during our observation period. This is consistent with the findings of Ohmi and Okimoto (2016) who observed a statistically significant decrease in the stock-bond correlation, in more advanced and safe countries, in comparison to previous studies. If the correlation had been negative over the entire period, this would of course have had a positive impact on diversification and asset allocation. If these two asset types de-correlate, they can be used as an effective hedging technique and the asset allocation in portfolio management can be considered as effective. However, (Ohmi & Okimoto, 2016) also observed periods where the stock-bond correlation increases and as a result of that, the diversification effect gets deteriorated. This is coherent with our observations as well as other scientific researches: we clearly observed periods with positive correlation, often during crises or in times of high uncertainty or volatility. This phenomenon is confirmed by a multitude of scientific researches like Mighri and Mansouri (2013), Hartmann, Straetmans and De Vries (2004) or Campbell (2002). This confirms our observations during the literature review.

Appendix 5: Basic regression

Regression Statistics								
Multiple R	0,373393984							
R Square	0,139423068							
Adjusted R Square	0,08726689							
Standard Error	0,086012432							
Observations	71							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	4	0,079106346	0,019776587	2,6731841	0,03947505			
Residual	66	0,488277142	0,007398139					
Total	70	0,567383488						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	-0,19260306	0,056453574	-3,411707124	0,0011065	-0,3053163	-0,0798899	-0,3053163	-0,0798899
EU_GDP	-0,152753213	0,055791039	-2,737952472	0,0079386	-0,2641436	-0,0413628	-0,2641436	-0,0413628
EURO_GDP	0,125705608	0,04981257	2,523572023	0,0140323	0,0262516	0,22515961	0,0262516	0,22515961
US_GDP	0,03193513	0,010893812	2,931492519	0,0046312	0,01018493	0,05368533	0,01018493	0,05368533
EuroInauguration	0,089881824	0,053830852	1,669708349	0,0997139	-0,0175949	0,19735859	-0,0175949	0,19735859

Appendix 6: Regression on macroeconomic factors

Regression Statistics								
Multiple R	0,529068854							
R Square	0,279913853							
Adjusted R Square	0,22452261							
Standard Error	0,079281872							
Observations	71							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	5	0,158818498	0,0317637	5,053395481	0,00056655			
Residual	65	0,40856499	0,006285615					
Total	70	0,567383488						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	-0,117258734	0,024757949	-4,736205573	1,22331E-05	-0,166703772	-0,067813697	-0,166703772	-0,067813697
EU_CPI	0,047452495	0,059333236	0,799762467	0,426761587	-0,07104416	0,16594915	-0,07104416	0,16594915
EURO_CPI	-0,068275609	0,059250848	-1,152314461	0,253412331	-0,186607724	0,050056506	-0,186607724	0,050056506
US_CPI	0,009048203	0,012390742	0,730238985	0,467867923	-0,015697818	0,033794224	-0,015697818	0,033794224
SubprimeCrisis	-0,025716475	0,03476173	-0,739792737	0,462089397	-0,095140443	0,043707493	-0,095140443	0,043707493
DebtCrisis	0,081854371	0,022681225	3,608904262	0,000598228	0,036556836	0,127151906	0,036556836	0,127151906

Appendix 7: Regression on financial factors

Regression Statistics								
Multiple R	0,638856419							
R Square	0,408137524							
Adjusted R Square	0,368011255							
Standard Error	0,072409533							
Observations	64							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	4	0,213318845	0,053329711	10,17132988	2,48767E-06			
Residual	59	0,309345288	0,00524314					
Total	63	0,522664133						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	-0,108507396	0,042555845	-2,549764806	0,013397627	-0,193661446	-0,023353347	-0,193661446	-0,023353347
VIX	0,001127341	0,001512884	0,745160081	0,459133173	-0,001899933	0,004154615	-0,001899933	0,004154615
Liquidity_Risk	0,060209823	0,019653202	3,063613924	0,003293334	0,020883857	0,099535789	0,020883857	0,099535789
GG10Y	-0,082419857	0,018392053	-4,481275655	3,46955E-05	-0,119222269	-0,045617445	-0,119222269	-0,045617445
USG10Y	0,062758391	0,021112888	2,97251565	0,004270692	0,020511599	0,105005183	0,020511599	0,105005183

Appendix 8: Regression on policy factors

Regression Statistics								
Multiple R	0,416853598							
R Square	0,173766922							
Adjusted R Square	0,148729556							
Standard Error	0,084025867							
Observations	69							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	2	0,098001894	0,049000947	6,940303637	0,001838167			
Residual	66	0,465982854	0,007060346					
Total	68	0,563984748						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	-0,055287679	0,020419501	-2,707592101	0,00862082	-0,096056527	-0,01451883	-0,096056527	-0,01451883
ECBRate	-2,507622704	0,781757615	-3,207672884	0,002065339	-4,068452142	-0,946793265	-4,068452142	-0,946793265
QE	0,026961125	0,046566813	0,578977235	0,564575351	-0,066012518	0,119934767	-0,066012518	0,119934767