

Euro Rates Update

Nordea Research, 02 May 2016

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US Treasury Yields				
	2Y	5Y	10Y	30Y
	0.80	1.31	1.86	2.72
Δ 1D	-2.8	-2.6	-1.6	-1.1
Δ 1W	3.0	5.4	6.6	11.9

German Benchmark Yields				
	2Y	5Y	10Y	30Y
	-0.48	-0.28	0.29	1.02
Δ 1D	2.2	4.0	3.8	1.7
Δ 1W	3.0	9.6	13.9	18.4

German Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-20.0	-56.5	-76.5	-73.4
Δ 1D	1.8	-0.2	1.6	-2.1
Δ 1W	6.6	4.3	10.9	4.5

EUR Swap Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-21.6	-58.3	-79.9	-57.7
Δ 1D	1.6	-0.5	1.1	-0.7
Δ 1W	2.4	3.0	5.4	4.5

German Asset Swap Levels				
	2Y	5Y	10Y	30Y
	-33.6	-34.7	-34.8	-19.0
Δ 1D	0.5	0.6	0.8	-0.8
Δ 1W	0.1	1.0	0.4	-0.6

10Y Benchmark Yields				
	Yield	Δ 1D	Spread	Δ 1D
GER	0.290	3.8	-	-
FRA	0.651	4.9	33.6	1.3
ITA	1.507	3.3	124.8	-0.5
ESP	1.616	2.2	130.6	-1.4
BEL	0.688	4.2	36.7	0.6
HOL	0.523	4.5	19.6	0.9
AUT	0.498	5.0	25.4	1.3
GRE	7.850	-19.6	756.2	-23.2
POR	3.187	7.1	285.9	3.5
FIN	0.588	5.3	28.3	1.7
IRL	0.995	4.5	68.1	0.9

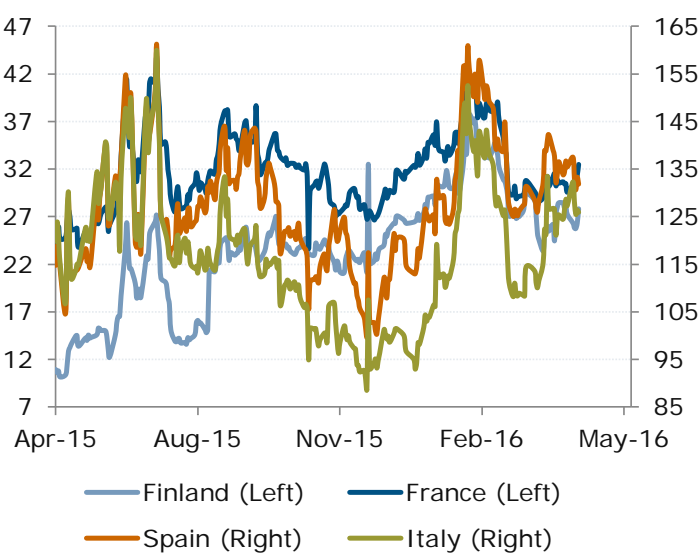
Spread = Maturity interpolated spread to German government par yield curve

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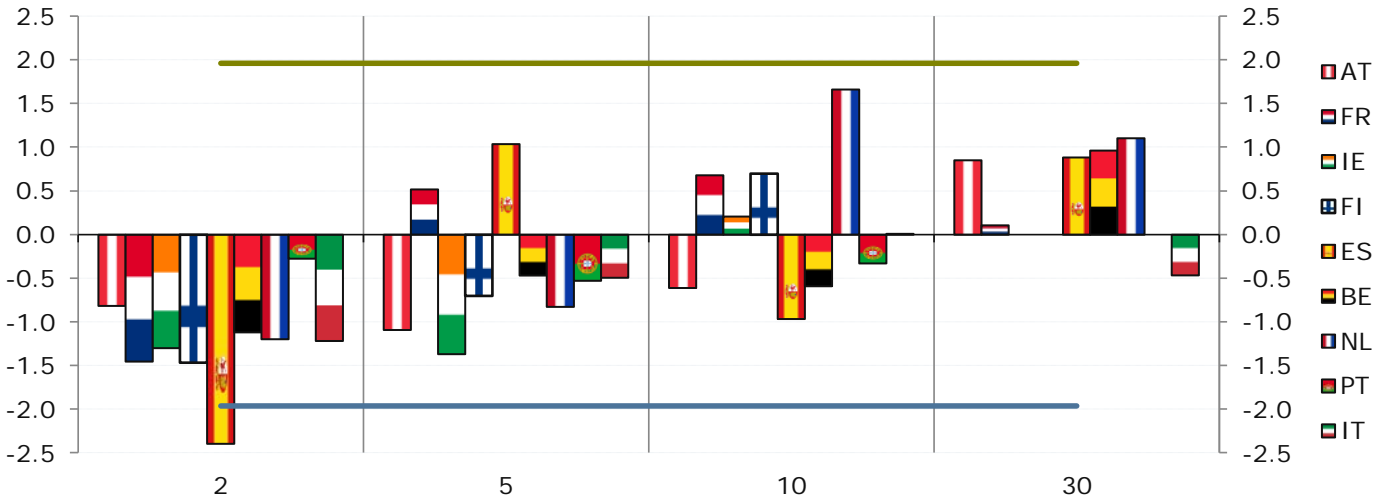
German & US 10-year benchmark yields, %



10 year spreads against Germany, bp



Z-scores of benchmark vs. Germany



Upcoming Issuance (source: Bloomberg)						
Date	Country	Coupon	Maturity	Amount (EURbn)		
02 May	LN		2021			
04 May	FR					
05 May	SP					
09 May	LI	2.10%	2024			
10 May	AS					
11 May	GE			5.00		

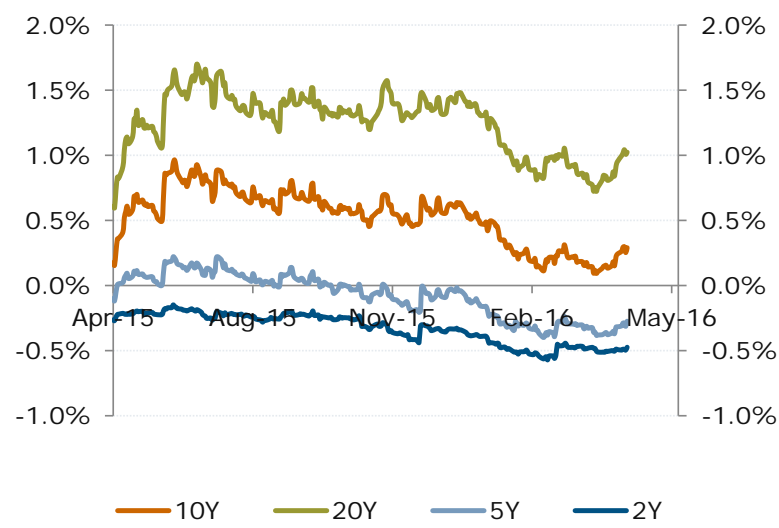
All bond quotes are taken at 16:15 CET.

Bond Yields & Curves

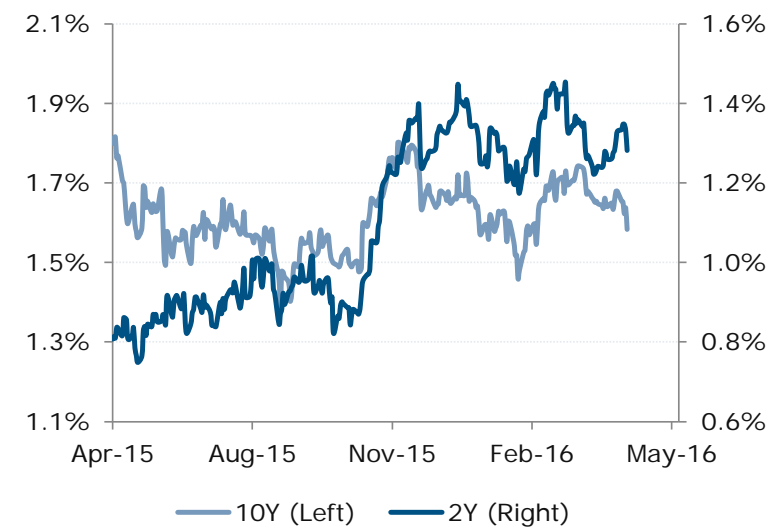
Yield Levels

German & US benchmark bonds on-the-run Nordea Analytics benchmarks.

German benchmark bond yields, %



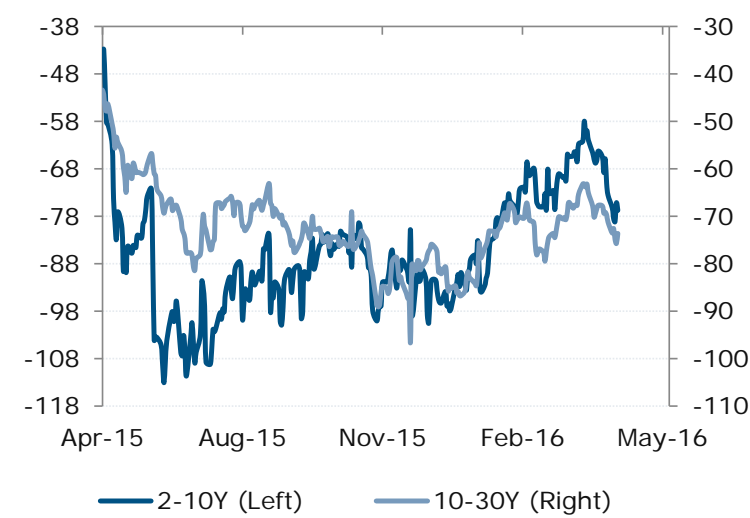
USA-Germany spreads, annualized yields, %



Bond Curve Shape

German curve slopes are yield spreads between Nordea Analytics benchmark bonds.

German yield curve slopes, bp



Bonds vs. equities



Swaps and Forwards

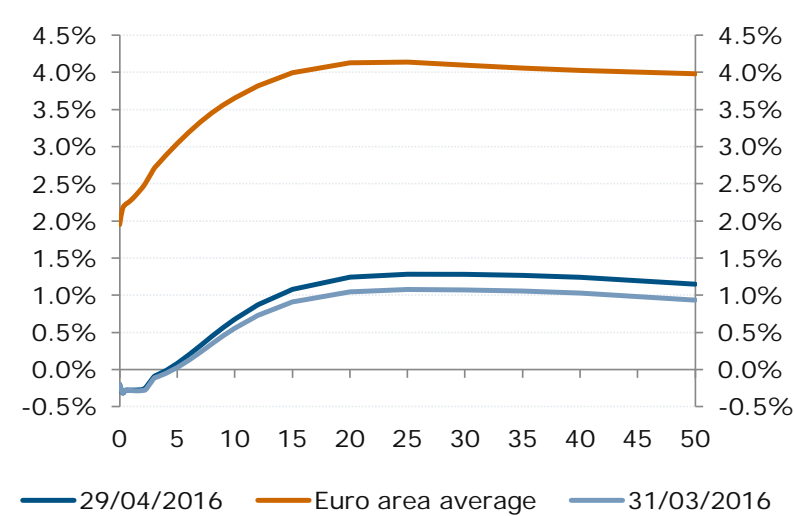
EUR swap rates and implied forwards, %



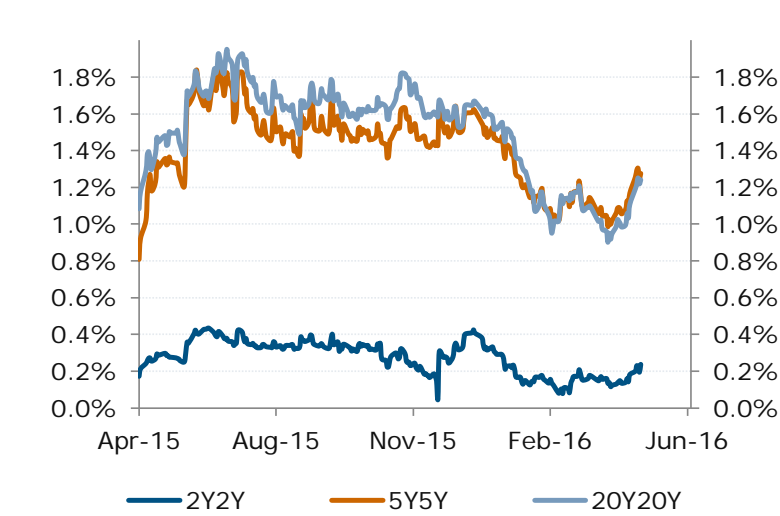
EUR-USD spreads and implied forwards, %



EUR swap curve shape vs. historical

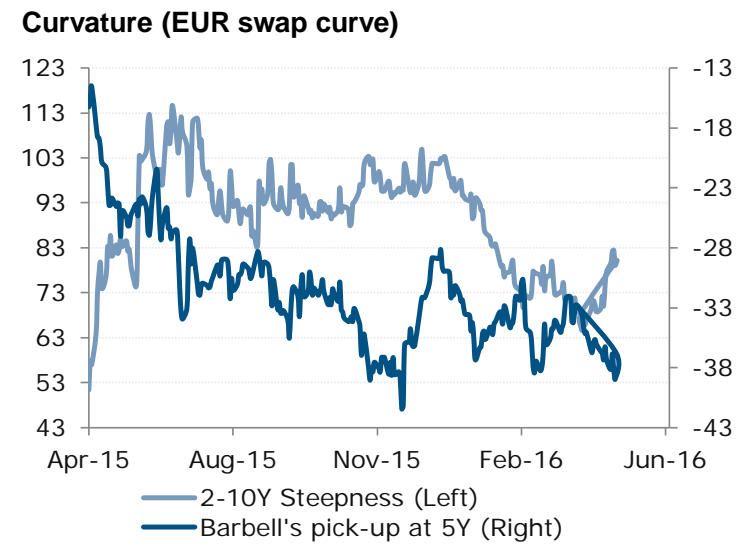


Historical forward rates, %



E.g. 2Y2Y swap rate illustrates the rate of a 2-year swap with a 2-year forward start.

5Y pick-up over a duration and cash neutral 2-10Y EUR swap barbell.

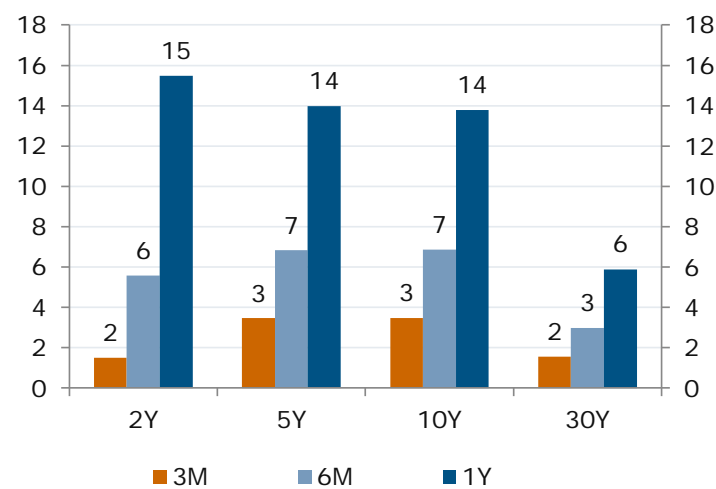


Carry

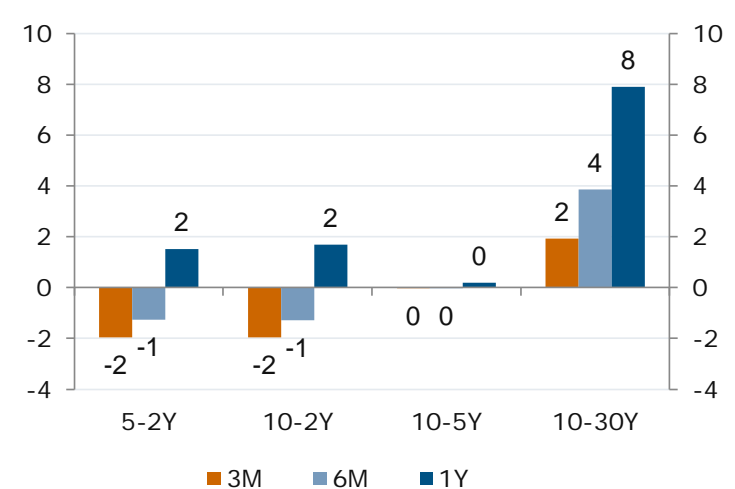
The carry on the given horizon illustrates how much the spot swap rate may rise for a receiver swap position in a forward-starting swap to result in zero profit.

Yield buffers for steepeners tell how much the curve may flatten in order to result in a zero-profit in a forward starting steepener position.

Yield buffers for forward-starting swaps, bp

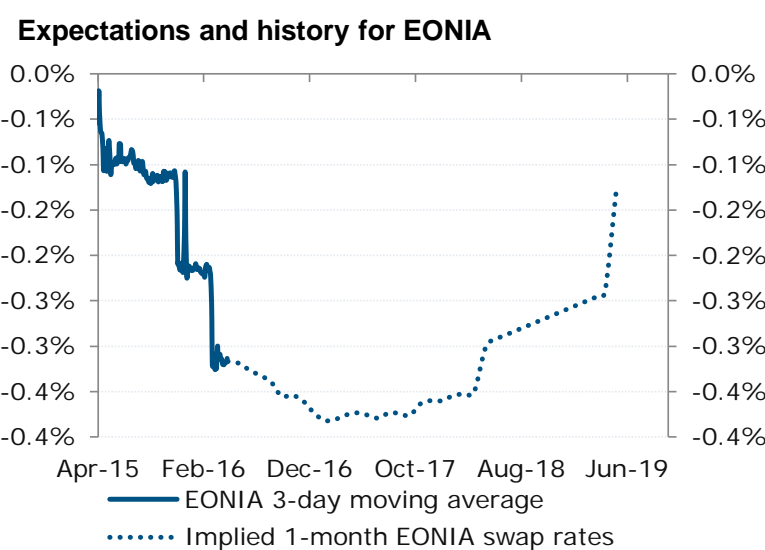


Yield buffers for duration-neutral steepeners, bp

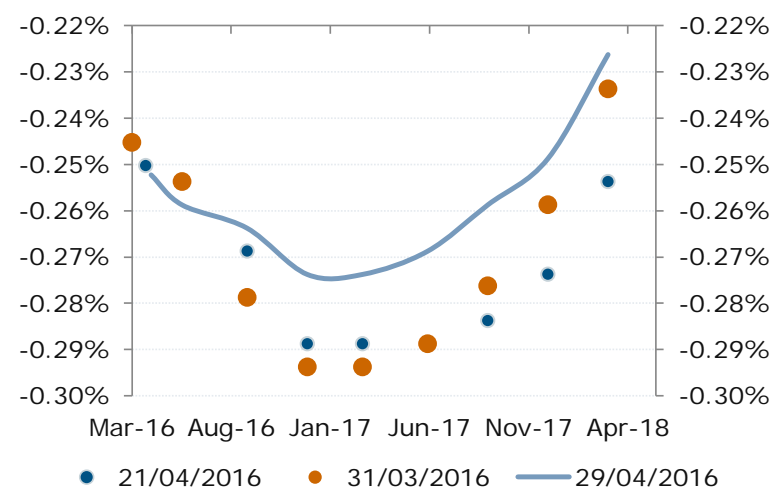


Money Market Rates

The EONIA (Euro Overnight Index - Average) rate is the effective overnight reference rate for the euro.

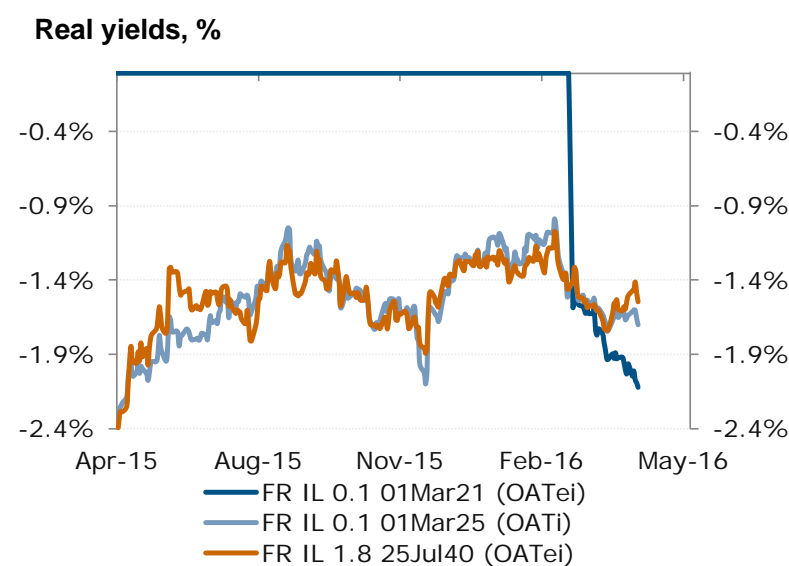


Euribor futures curve, now, 1 wk & 1M ago

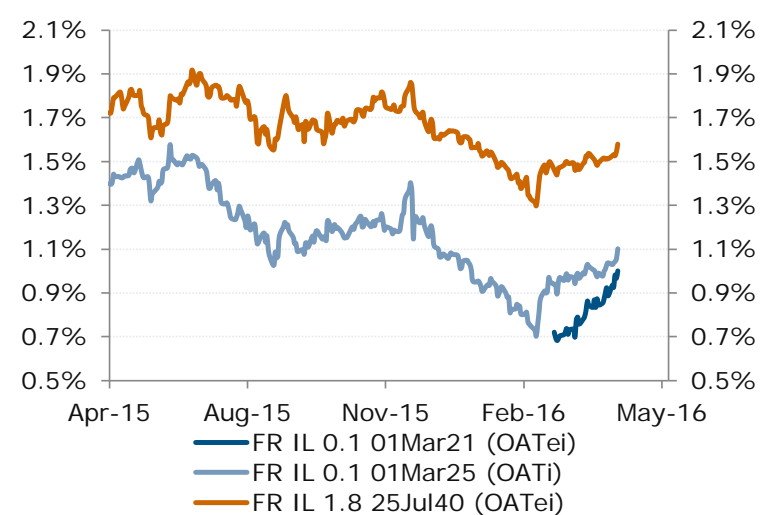


Inflation-linked Bonds

Break-even inflation calculated as a yield spread to a nominal comparable bond.



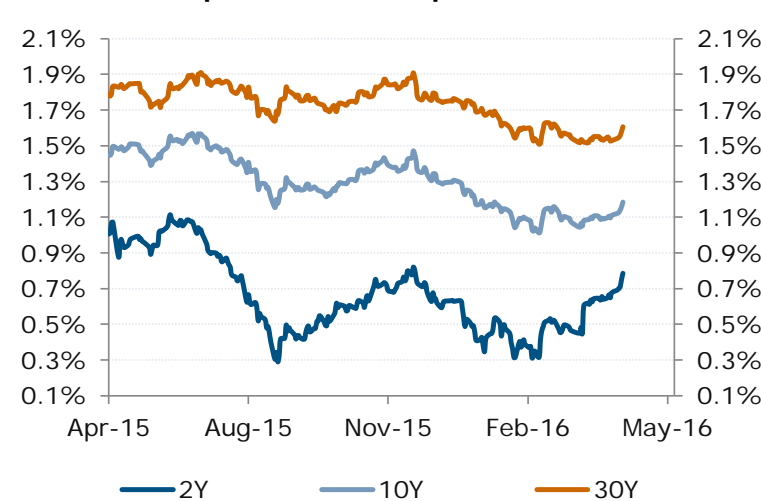
Break-even inflation history, %



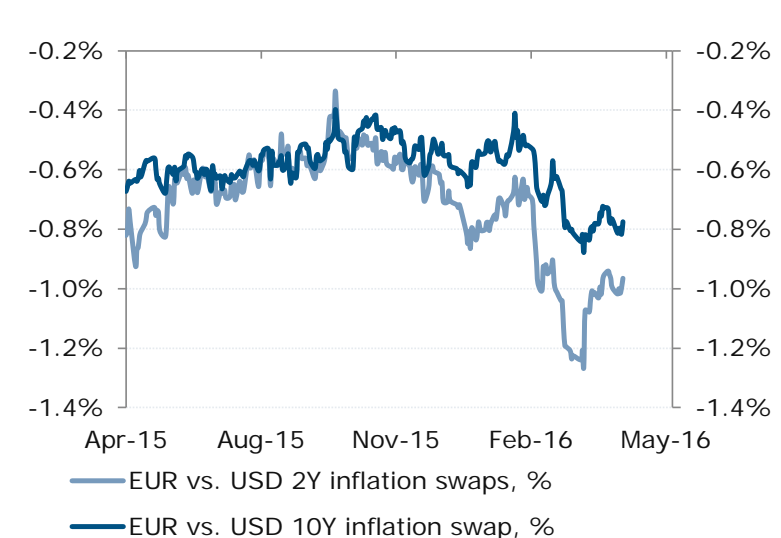
Inflation Swaps

A zero-coupon inflation swap is a derivative contract, in which one party pays a fixed rate (the break-even inflation rate) and the other party pays a floating rate based on realized inflation. The zero-coupon inflation swap illustrates the average expected inflation rate during the life of the swap.

EUR zero-coupon inflation swaps



EUR vs. USD inflation swaps



Credit & Money Market Spreads

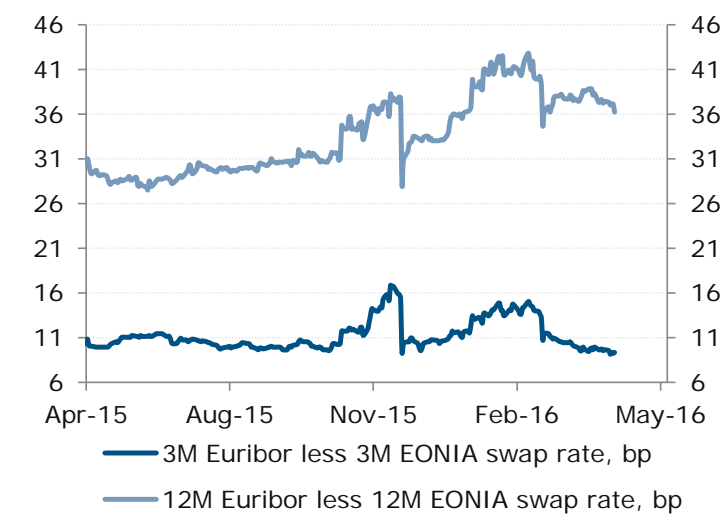
Credit default swap indices illustrate the annual cost of buying protection against a credit event of a company. iTraxx® Europe is comprised of the 125 most liquid CDS contracts referencing European investment grade credits, iTraxx® Crossover of 50 sub-investment grade credits.

The spread between Euribor and EONIA swap rate illustrates the money market credit risk premium, i.e. the difference between Euribor rates and the expected future ECB minimum bid rate.

iTraxx® credit default swap spreads



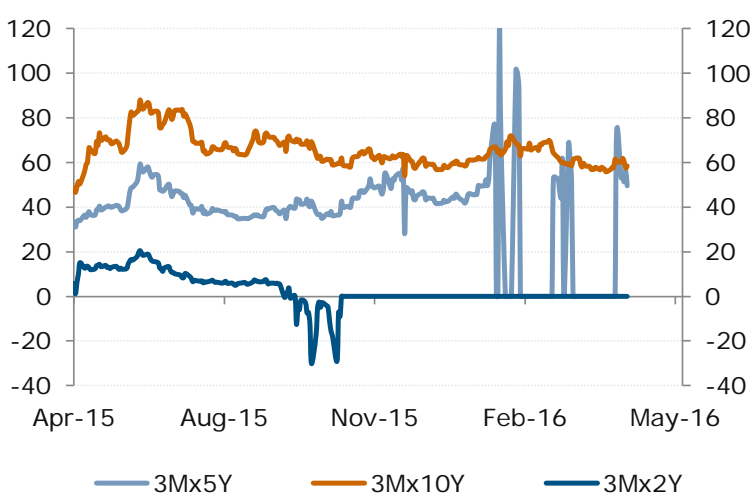
Money market rates vs. EONIA swap rates



Swaption Volatilities

ATMF (At The Money Forward) swaption bp vol measures the normalized volatility, i.e. the absolute changes in the forward rate in basis points.

Short-dated ATMF swaption bp vol



Long-dated ATMF swaption bp vol

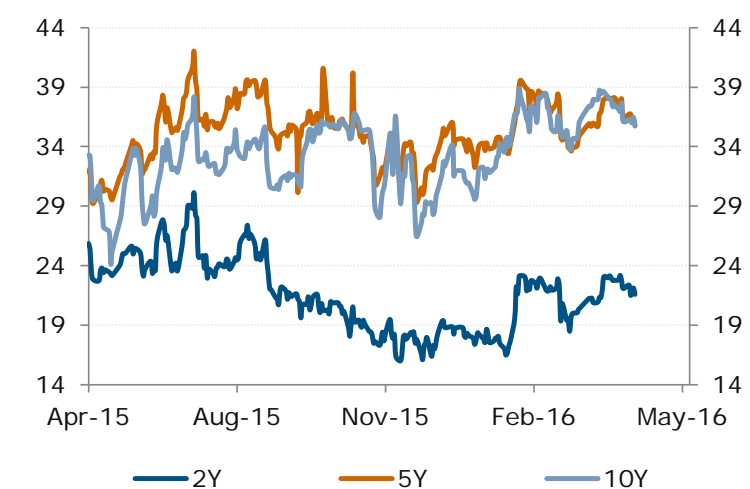


Swap & Cross-country Spreads

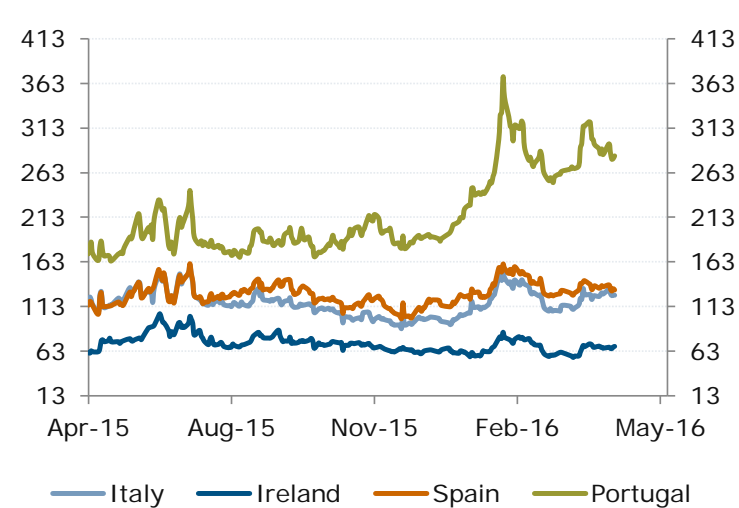
Swap spread:
Benchmark bond's spread to EUR swap curve.

10Y country spreads are maturity interpolated spreads against the German government curve.

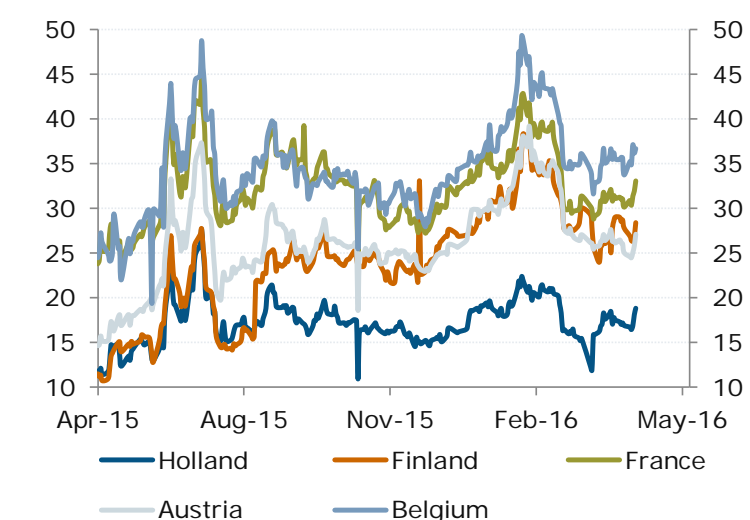
German swap spreads, bp



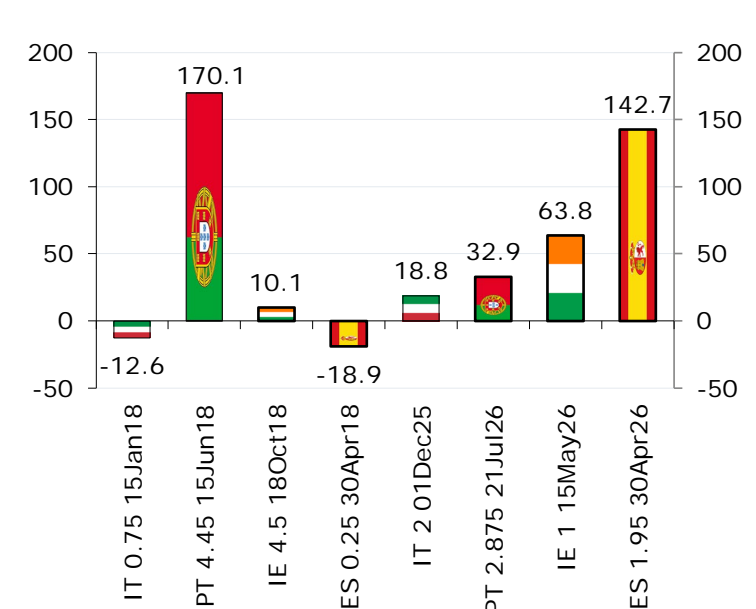
10Y non-AAA spreads against Germany, bp



10Y AAA/AA+ spreads to Germany, bp



1Y B/E spread changes against Germany, bp



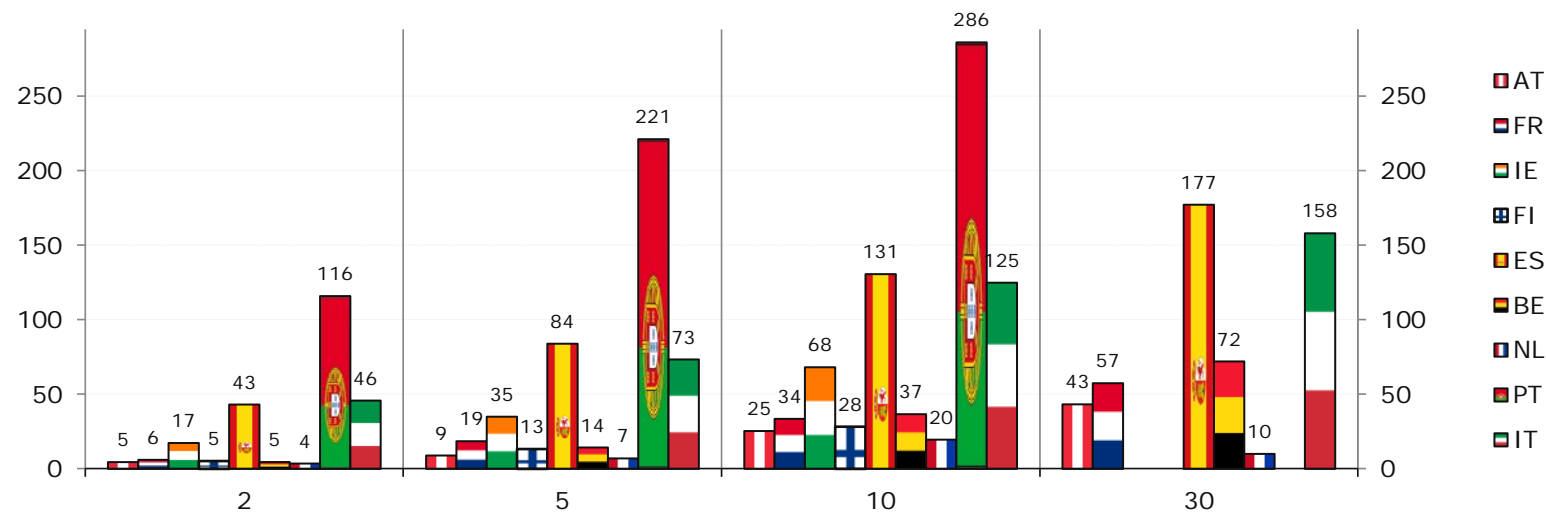
1Y break-even spread changes indicate how much a bond's spread against an equivalent bond trading on the German curve may widen in order to give the same return in one year.

The break-even spread change is based on the spread against the following two German benchmark bonds:
DE TB 16Mar18
DE 0.5 15Feb26

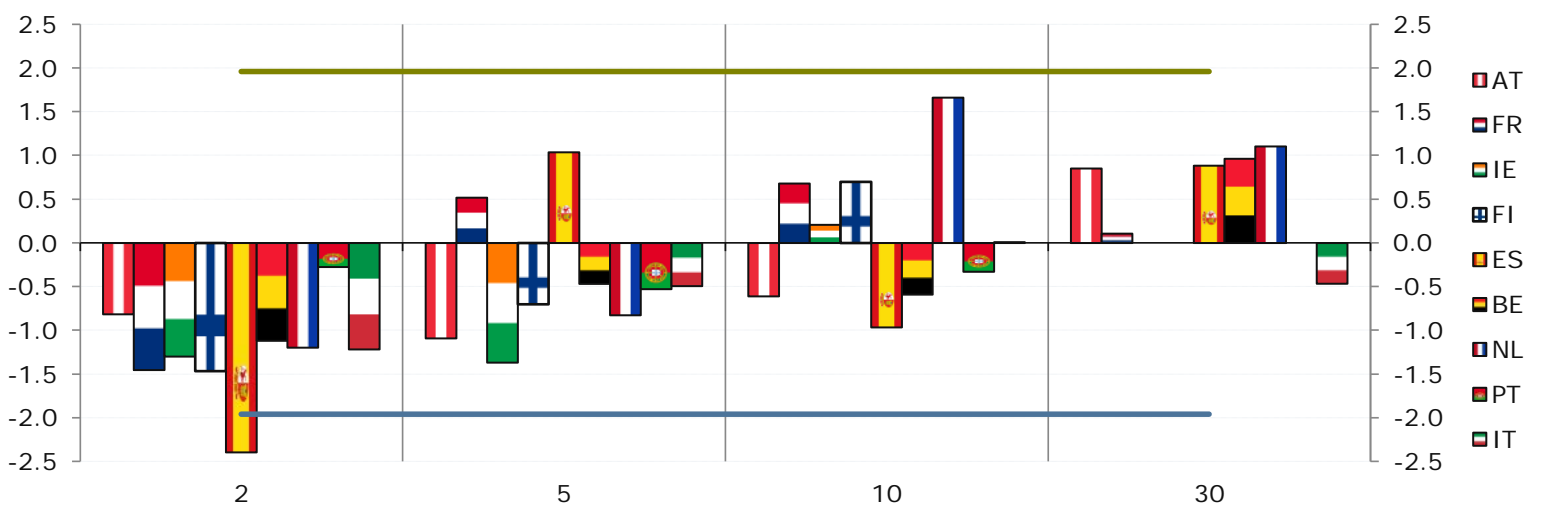


Country Relative Value

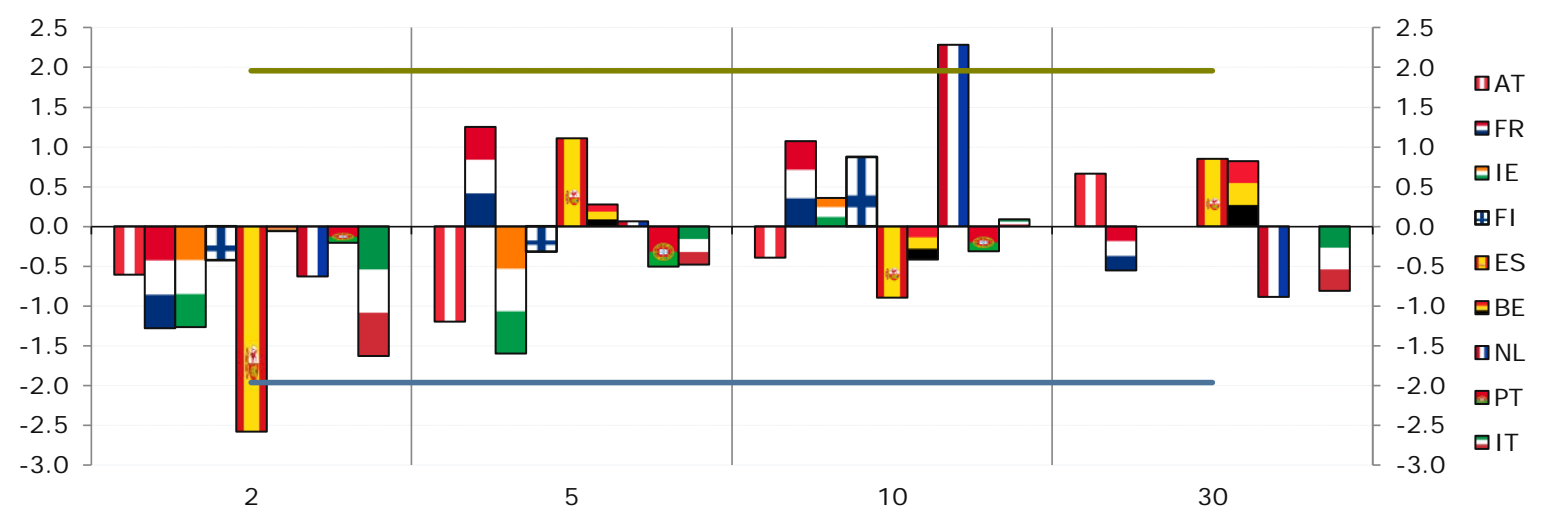
Benchmark spreads over the maturity-interpolated German par curve, bp



Z-scores of benchmark vs. Germany



Z-scores of benchmark vs. swap curve



The richest and cheapest benchmark bonds against Germany and the swap curve by sectors:

Against German Curve						Against Swap Curve				
	Issue	Maturity	Coupon	Spread	Z-score	Issue	Maturity	Coupon	Spread	Z-score
2Y: Rich	KfW	18 Mar 19	0.875	8.2	-3.04	KfW	12 Feb 18	0.625	-25.3	-3.02
	DE	16 Mar 18	0.000	-6.5	0.86	DE	16 Mar 18	0.000	-33.6	0.19
5Y: Rich	KfW	15 Jan 21	1.625	3.3	-2.49	KfW	15 Jan 21	1.625	-31.9	-2.54
	DE	16 Oct 20	0.250	-17.4	0.70	DE	09 Apr 21	0.000	-34.7	1.13
7Y: Rich	KfW	11 Jun 24	1.500	11.9	-2.51	KfW	11 Jun 24	1.500	-25.7	-1.90
	DE	04 Jul 22	1.750	-23.5	0.80	DE	04 Jul 22	1.750	-38.8	1.48
10Y: Rich	KfW	09 Mar 26	0.375	19.6	-1.54	GR	24 Feb 25	3.000	582.8	-1.30
	NL	15 Jul 26	0.500	19.6	2.29	NL	15 Jul 26	0.500	-16.3	3.41
15Y: Rich	ES	31 Jan 37	4.200	155.9	-1.12	KfW	23 Apr 30	0.375	-11.1	-2.40
	KfW	31 Jul 35	1.375	21.6	1.21	GR	24 Feb 36	3.000	399.9	1.56
20Y: Rich	GR	24 Feb 42	3.000	535.0	-1.88	GR	24 Feb 42	3.000	352.7	-2.35
	AT	20 Feb 47	1.500	43.3	1.91	BE	22 Jun 47	1.600	51.7	0.75

To exploit the historical cheapness/ richness of bonds, we calculate 60-day z-scores:

Current spread - 60-day average
standard deviation

Bond is

- rich if z-score < -1.96
- cheap if z-score > 1.96

We evaluate bonds included in the country specific tables below. Bonds are ranked by z-scores.



	15	16	17
GDP, %, y/y	1.5	1.5	2.0
Public balance	0.4	0.2	0.2
Debt/GDP	74.2	71.9	68.9

Source: European Commission, Winter 2015 forecast

Rating	Aaa/AAA/AAA
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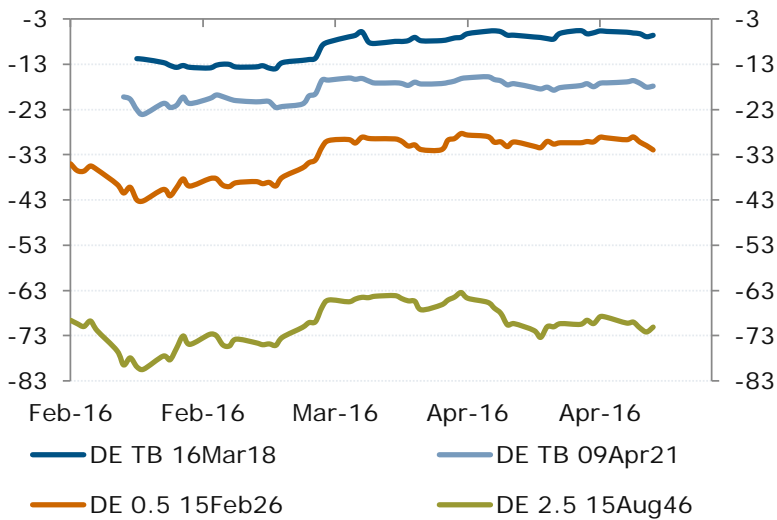
Moody's / S&P / Fitch

Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the French curve.

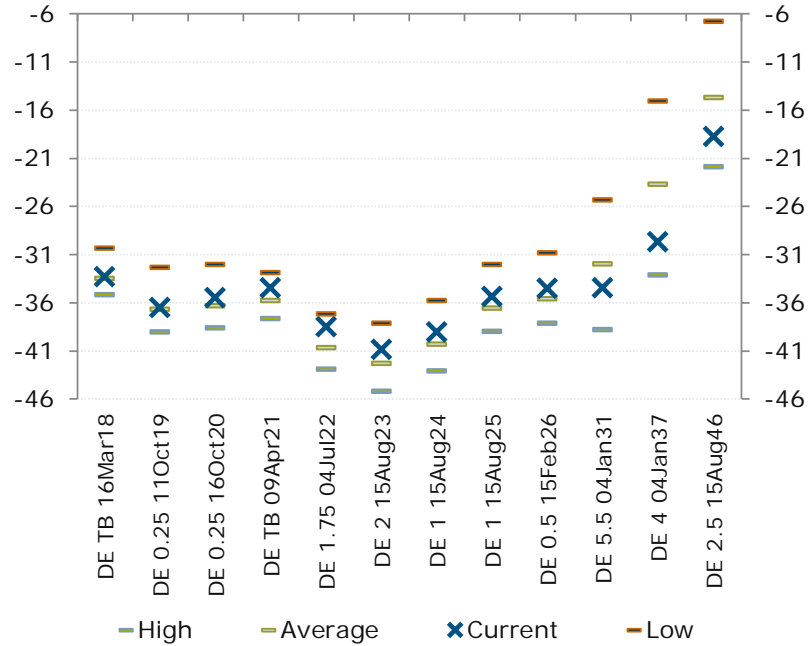
Germany

Benchmark Bonds				Spread vs. France				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
0.000	16 Mar 18	13.0B	-0.475	-6.5	-9.0	0.86	-1.1	-33.6	-33.8	0.19
0.250	11 Oct 19	16.0B	-0.430	-15.1	-16.7	0.86	0.8	-36.8	-37.0	0.13
0.250	16 Oct 20	19.0B	-0.334	-17.4	-18.5	0.70	1.4	-35.7	-36.6	0.62
0.000	09 Apr 21	13.0B	-0.275	-17.7	-18.7	0.48	-37.6	-34.7	-36.1	1.13
1.750	04 Jul 22	24.0B	-0.178	-23.5	-25.7	0.80	0.1	-38.8	-40.9	1.48
2.000	15 Aug 23	18.0B	-0.069	-28.6	-29.9	0.36	-0.5	-41.1	-42.5	1.00
1.000	15 Aug 24	18.0B	0.072	-30.4	-31.2	0.21	7.9	-39.3	-40.5	0.86
1.000	15 Aug 25	23.0B	0.221	-31.0	-32.6	0.36	-0.6	-35.6	-36.8	0.93
0.500	15 Feb 26	18.0B	0.290	-31.8	-33.9	0.47	-0.8	-34.8	-35.9	0.93
5.500	04 Jan 31	17.0B	0.598	-51.2	-51.7	0.13	-0.3	-34.7	-32.2	-0.83
4.000	04 Jan 37	23.0B	0.847	-64.7	-63.8	-0.26	0.3	-30.0	-23.9	-1.26
2.500	15 Aug 46	16.0B	1.023	-71.0	-70.7	-0.07	-0.1	-19.0	-15.0	-1.19

Spreads against the French curve, bp



Asset swap term structure, bp



	15	16	17
GDP, %, y/y	0.4	1.0	1.8
Public balance	-4.3	-4.1	-4.1
Debt/GDP	95.3	97.1	98.2

Source: European Commission, Winter 2015 forecast

Rating	Aa1/AA/AA
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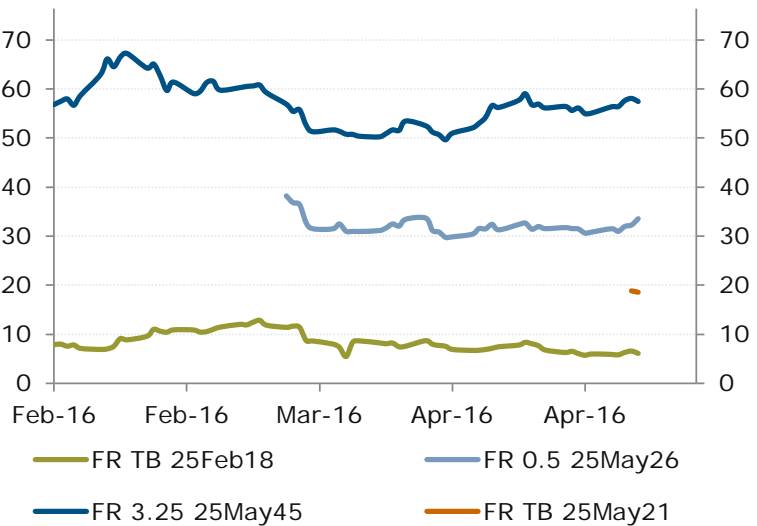
Moody's / S&P / Fitch

Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

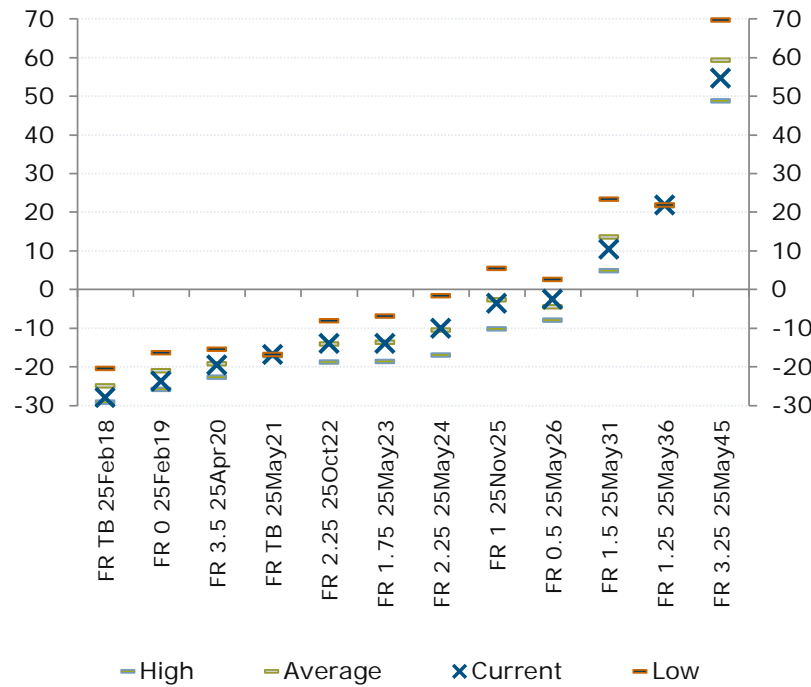
France

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
0.000	25 Feb 18	20.02B	-0.422	6.1	8.5	-1.42	0.0	-28.1	-25.1	-1.41
0.000	25 Feb 19	9.48B	-0.344	11.8	13.9	-1.19	0.8	-23.8	-21.1	-1.14
3.500	25 Apr 20	37.27B	-0.226	15.9	15.7	0.09	0.6	-19.7	-19.4	-0.19
0.000	25 May 21	4.02B	-0.081	18.6	18.7	-0.50	0.1	-16.9	-17.0	0.50
2.250	25 Oct 22	30.02B	0.089	22.2	24.0	-0.70	-0.1	-14.1	-14.2	0.05
1.750	25 May 23	33.97B	0.163	23.6	25.5	-0.65	-0.2	-14.1	-13.8	-0.12
2.250	25 May 24	30.55B	0.314	26.1	26.8	-0.19	0.1	-10.1	-10.5	0.11
1.000	25 Nov 25	25.99B	0.572	31.5	32.9	-0.32	0.0	-3.7	-2.8	-0.21
0.500	25 May 26	9.87B	0.651	33.6	32.0	1.34	0.3	-2.6	-4.6	1.08
1.500	25 May 31	13.01B	1.134	46.0	45.8	0.07	0.0	10.4	13.6	-0.58
1.250	25 May 36	6.0B	1.435	51.9	51.1	0.50	1.8	21.8	21.7	0.50
3.250	25 May 45	17.01B	1.637	57.5	57.1	0.10	-0.3	54.6	59.2	-0.78

Spreads against the German curve, bp



Asset swap term structure, bp





	15	16	17
GDP, %, y/y	-0.5	0.6	1.3
Public balance	-3.0	-2.6	-2.0
Debt/GDP	131.9	133.0	131.9

Source: European Commission, Winter 2015 forecast

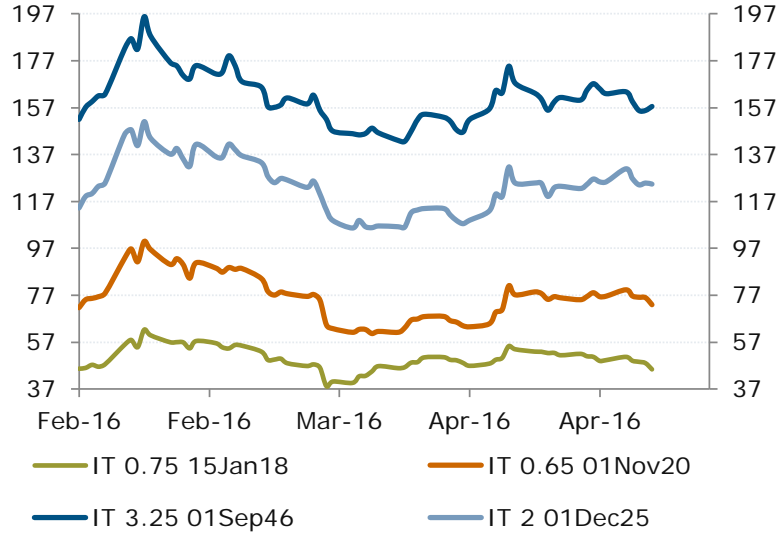
Rating	Baa2/BBB-/BBB+
Moody's / S&P / Fitch	

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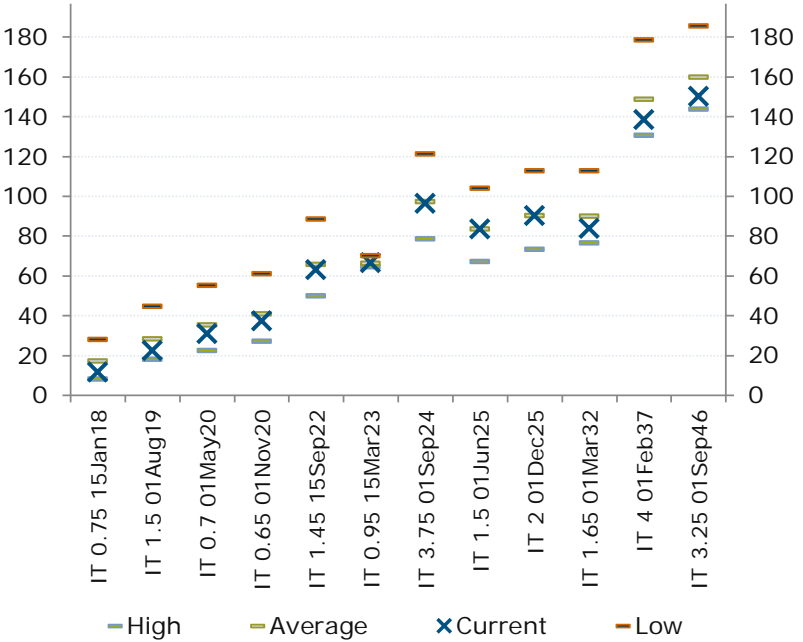
Italy

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
0.750	15 Jan 18	15.46B	-0.025	45.8	50.7	-1.21	185.8	11.4	17.1	-1.69
1.500	01 Aug 19	16.01B	0.143	58.2	63.0	-0.85	-1.3	22.5	28.1	-0.99
0.700	01 May 20	15.99B	0.294	67.7	71.9	-0.55	-1.4	30.8	35.3	-0.62
0.650	01 Nov 20	14.02B	0.406	73.4	77.3	-0.50	-1.3	37.2	40.7	-0.49
1.450	15 Sep 22	17.03B	0.860	100.4	105.1	-0.49	0.1	62.9	65.7	-0.32
0.950	15 Mar 23	8.02B	0.979	107.3	108.5	-1.06	0.4	66.4	66.2	0.17
3.750	01 Sep 24	19.01B	1.320	122.8	124.5	-0.18	0.6	96.3	97.3	-0.11
1.500	01 Jun 25	19.99B	1.415	122.0	122.2	-0.03	0.4	83.5	83.4	0.02
2.000	01 Dec 25	17.01B	1.507	124.8	124.9	-0.01	0.1	90.1	90.1	0.00
1.650	01 Mar 32	16.01B	1.975	125.6	128.2	-0.32	4.9	83.8	90.0	-0.87
4.000	01 Feb 37	26.01B	2.369	143.0	147.5	-0.48	-0.2	138.4	148.5	-1.02
3.250	01 Sep 46	13.24B	2.648	157.9	162.4	-0.48	-0.1	150.1	159.8	-1.17

Spreads against the German curve, bp



Asset swap term structure, bp



	15	16	17
GDP, %, y/y	1.4	2.3	2.5
Public balance	-5.6	-4.5	-3.7
Debt/GDP	98.3	101.5	102.5

Source: European Commission, Winter 2015 forecast

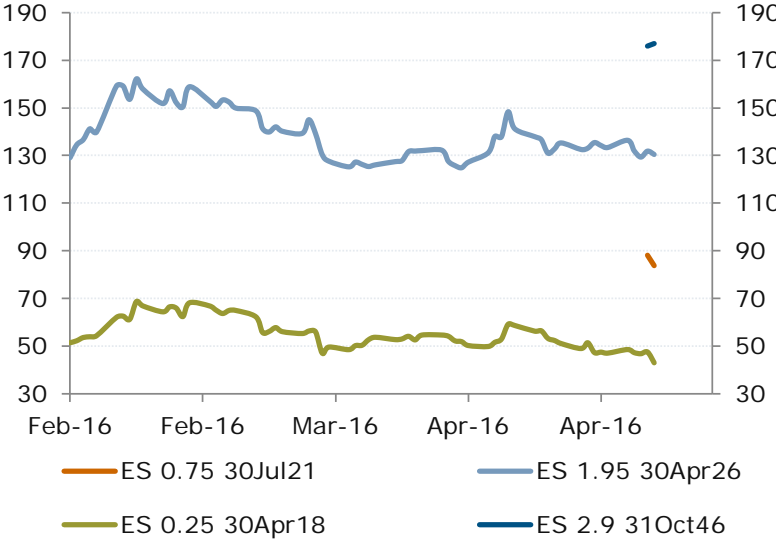
Rating	Baa2/BBB/BBB+
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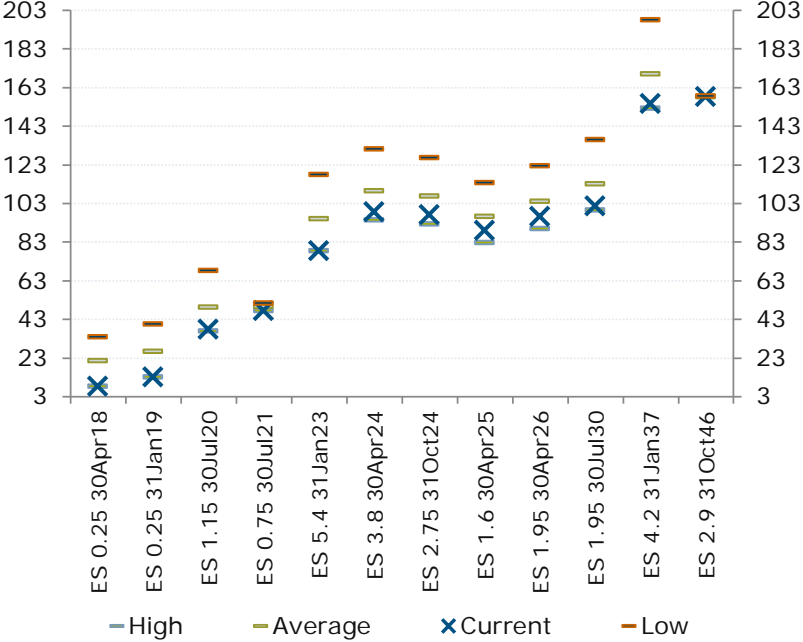
Spain

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
0.250	30 Apr 18	16.99B	-0.050	43.2	55.7	-2.31	129.6	8.4	21.6	-2.43
0.250	31 Jan 19	5.46B	0.026	49.0	62.4	-2.80	-11.9	13.3	26.4	-3.02
1.150	30 Jul 20	17.02B	0.377	73.3	84.9	-1.30	-64.2	37.9	49.3	-1.39
0.750	30 Jul 21	3.02B	0.589	83.9	86.1	-0.50	-36.4	47.6	49.5	-0.50
5.400	31 Jan 23	21.99B	0.900	100.6	117.2	-1.55	0.2	78.4	94.9	-1.46
3.800	30 Apr 24	21.99B	1.294	125.0	136.6	-1.23	1.3	98.6	109.7	-1.21
2.750	31 Oct 24	23.99B	1.401	128.6	138.9	-1.13	6.6	97.3	106.9	-1.11
1.600	30 Apr 25	19.09B	1.453	126.8	135.1	-0.94	2.0	89.1	96.3	-0.93
1.950	30 Apr 26	14.84B	1.616	130.6	139.4	-0.97	9.1	96.2	104.0	-0.98
1.950	30 Jul 30	12.31B	2.048	142.4	151.7	-1.10	7.1	101.6	113.1	-1.40
4.200	31 Jan 37	17.02B	2.497	155.9	165.4	-1.12	0.4	154.8	169.9	-1.71
2.900	31 Oct 46	5.43B	2.840	177.1	176.6	0.50	-0.4	158.3	158.4	-0.50

Spreads against the German curve, bp



Asset swap term structure, bp





	15	16	17
GDP, %, y/y	0.7	1.4	1.7
Public balance	-2.8	-2.2	-1.8
Debt/GDP	69.5	70.5	70.5

Source: European Commission, Winter 2015 forecast

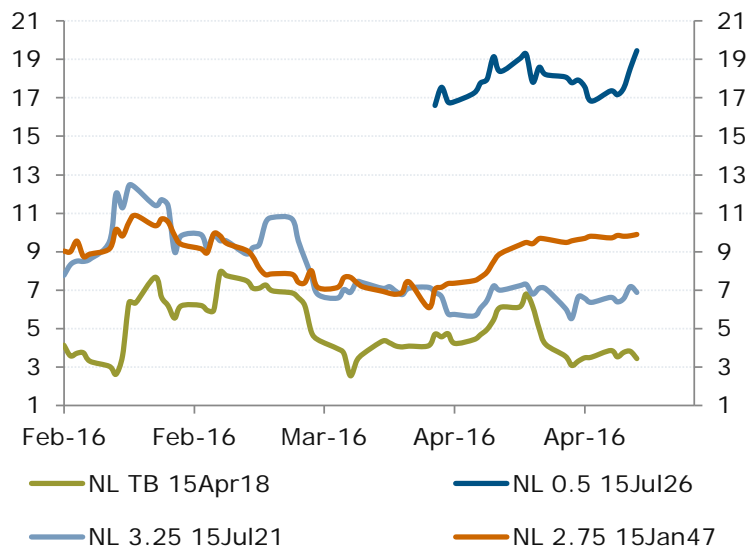
Rating	Aaa/AA+/AAA
Moody's / S&P / Fitch	

Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

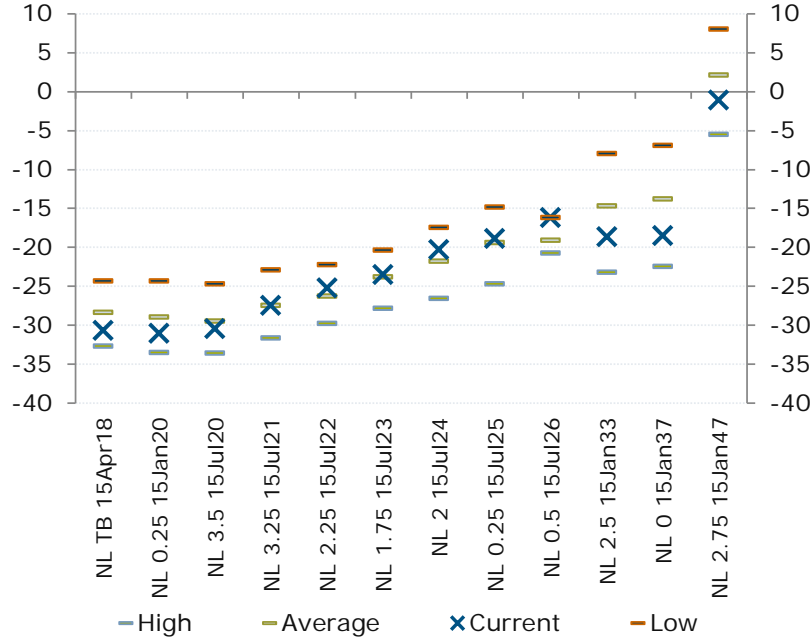
Netherlands

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
0.000	15 Apr 18	15.99B	-0.446	3.6	5.2	-1.18	0.0	-30.8	-28.4	-1.63
0.250	15 Jan 20	15.84B	-0.354	5.2	7.0	-1.39	-61.6	-31.1	-29.0	-1.14
3.500	15 Jul 20	15.02B	-0.307	5.3	6.1	-0.71	0.0	-30.5	-29.5	-0.54
3.250	15 Jul 21	16.99B	-0.184	7.0	8.4	-0.81	-0.2	-27.5	-27.5	-0.01
2.250	15 Jul 22	15.01B	-0.049	11.2	12.2	-0.66	-0.3	-25.3	-26.3	0.60
1.750	15 Jul 23	15.63B	0.090	14.5	15.9	-0.88	0.2	-23.5	-23.8	0.17
2.000	15 Jul 24	15.32B	0.236	16.2	15.9	0.20	0.4	-20.4	-21.9	0.83
0.250	15 Jul 25	15.01B	0.393	18.2	18.3	-0.06	0.4	-18.9	-19.4	0.21
0.500	15 Jul 26	5.51B	0.523	19.6	18.1	2.29	11.3	-16.3	-19.1	3.41
2.500	15 Jan 33	12.01B	0.876	10.5	10.6	-0.02	-0.2	-18.7	-14.8	-0.90
0.000	15 Jan 37	0.0B	1.062	12.5	13.3	-0.35	-2.0	-18.5	-13.8	-1.15
2.750	15 Jan 47	11.01B	1.171	10.1	8.9	1.08	0.1	-1.1	2.1	-0.97

Spreads against the German curve, bp



Asset swap term structure, bp



	15	16	17
GDP, %, y/y	1.0	1.1	1.4
Public balance	-3.2	-2.6	-2.4
Debt/GDP	106.4	106.8	106.6

Source: European Commission, Winter 2015 forecast

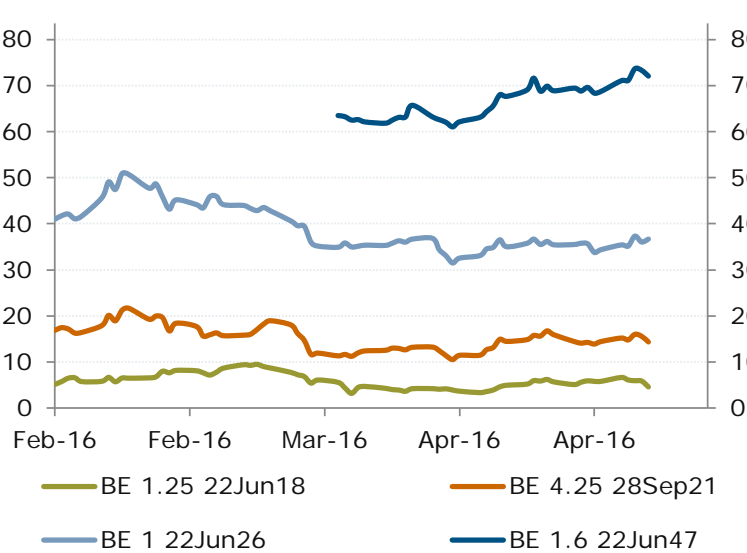
Rating	Aa3/AA/AA
Moody's / S&P / Fitch	

Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

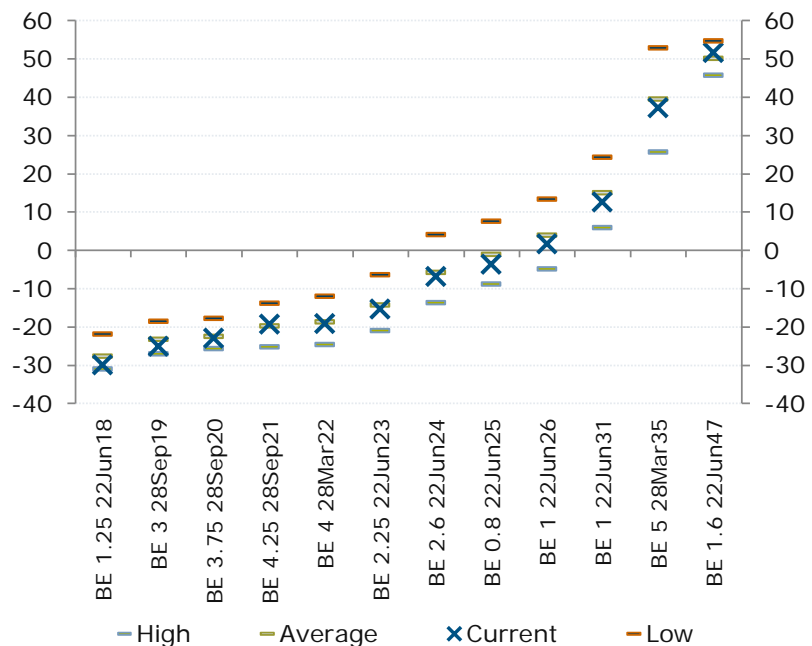
Belgium

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
1.250	22 Jun 18	11.01B	-0.432	4.6	6.1	-1.10	-2.7	-30.0	-27.7	-1.16
3.000	28 Sep 19	12.01B	-0.317	11.0	12.0	-0.70	1.2	-25.0	-23.2	-0.89
3.750	28 Sep 20	19.01B	-0.220	11.8	12.3	-0.38	-1.1	-22.9	-22.5	-0.25
4.250	28 Sep 21	16.45B	-0.092	14.4	15.4	-0.45	-1.3	-19.2	-19.8	0.22
4.000	28 Mar 22	14.02B	-0.036	15.4	17.7	-0.88	-0.8	-19.1	-18.7	-0.13
2.250	22 Jun 23	13.99B	0.155	21.8	24.4	-0.70	-0.2	-15.3	-14.2	-0.28
2.600	22 Jun 24	15.85B	0.348	28.3	30.5	-0.51	0.3	-6.9	-5.7	-0.25
0.800	22 Jun 25	16.02B	0.531	32.9	36.1	-0.75	0.4	-3.6	-1.1	-0.58
1.000	22 Jun 26	7.79B	0.688	36.7	39.4	-0.57	1.0	1.7	3.9	-0.46
1.000	22 Jun 31	5.59B	1.191	51.3	50.3	0.29	-0.4	12.6	15.1	-0.55
5.000	28 Mar 35	19.28B	1.314	43.5	41.3	0.56	-0.8	37.2	39.6	-0.36
1.600	22 Jun 47	3.5B	1.792	72.0	66.5	1.47	0.9	51.7	50.1	0.75

Spreads against the German curve, bp



Asset swap term structure, bp





	15	16	17
GDP, %, y/y	0.0	0.8	1.4
Public balance	-2.7	-2.5	-2.2
Debt/GDP	58.9	61.2	62.6

Source: European Commission, Winter 2015 forecast

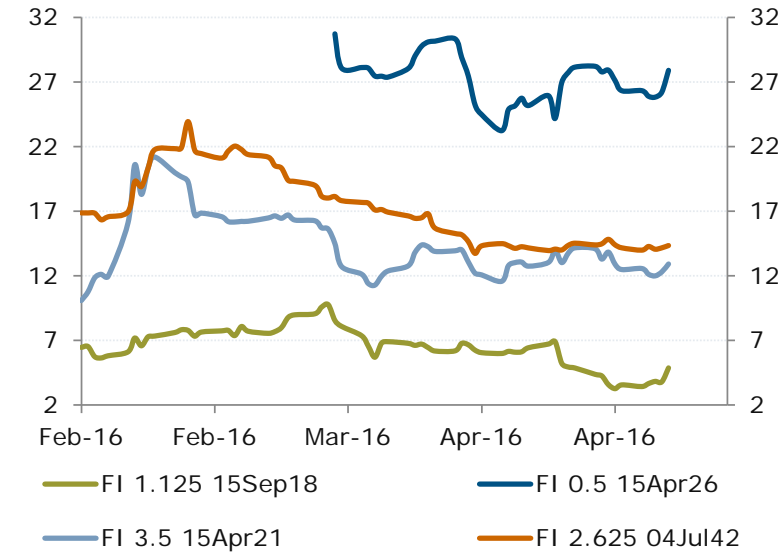
Rating	Aaa/AA+/AAA
Moody's / S&P / Fitch	

Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

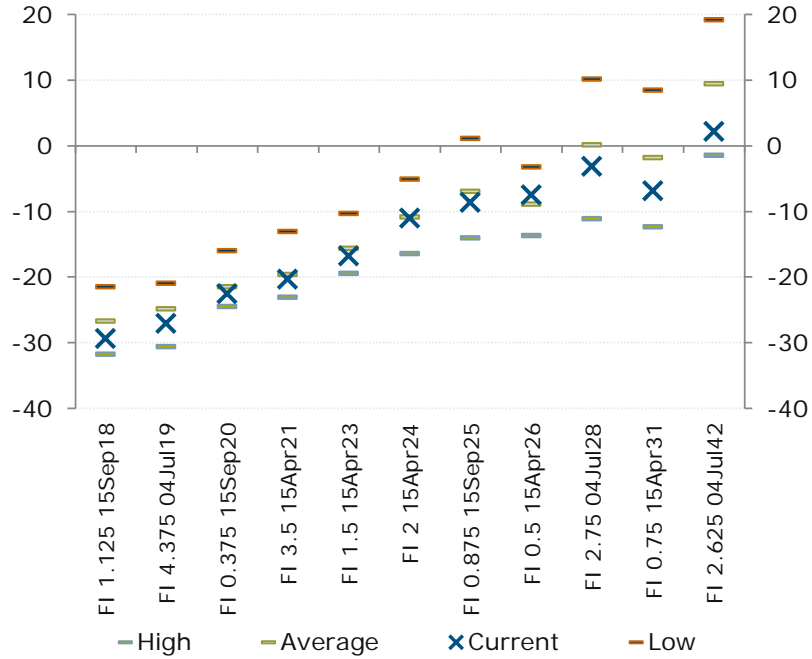
Finland

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
1.125	15 Sep 18	5.03B	-0.420	5.3	7.0	-1.41	2.8	-29.3	-26.7	-1.19
4.375	04 Jul 19	5.0B	-0.352	9.2	10.4	-0.76	2.6	-27.0	-24.8	-0.88
0.375	15 Sep 20	6.03B	-0.212	13.0	14.4	-0.67	-0.7	-22.6	-21.5	-0.67
3.500	15 Apr 21	6.0B	-0.144	13.3	15.0	-0.73	-0.9	-20.3	-19.6	-0.41
1.500	15 Apr 23	5.0B	0.127	21.3	24.1	-1.15	-1.0	-16.8	-15.6	-0.58
2.000	15 Apr 24	5.0B	0.296	25.7	27.2	-0.54	-1.0	-11.0	-10.8	-0.07
0.875	15 Sep 25	4.03B	0.504	27.1	29.4	-0.62	0.2	-8.6	-7.0	-0.43
0.500	15 Apr 26	4.0B	0.588	28.3	27.4	0.65	0.6	-7.5	-8.9	0.63
2.750	04 Jul 28	5.0B	0.765	28.3	29.9	-0.45	-0.5	-3.2	0.1	-0.54
0.750	15 Apr 31	3.5B	0.982	31.5	33.6	-0.53	0.0	-6.9	-1.8	-0.84
2.625	04 Jul 42	4.03B	1.197	14.7	17.7	-1.16	0.3	2.2	9.4	-1.18

Spreads against the German curve, bp



Asset swap term structure, bp



	15	16	17
GDP, %, y/y	0.2	0.8	1.5
Public balance	-2.9	-2.0	-1.4
Debt/GDP	86.8	86.4	84.5

Source: European Commission, Winter 2015 forecast

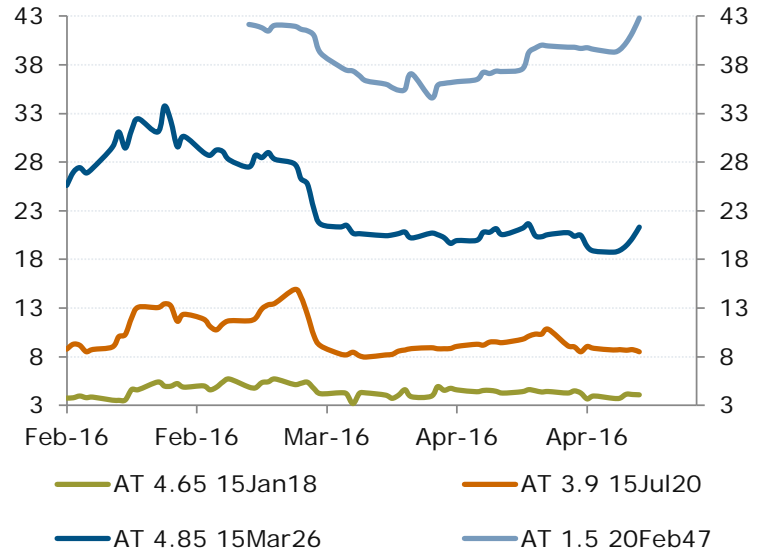
Rating	Aaa/AA+/AA+
Moody's / S&P / Fitch	

Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

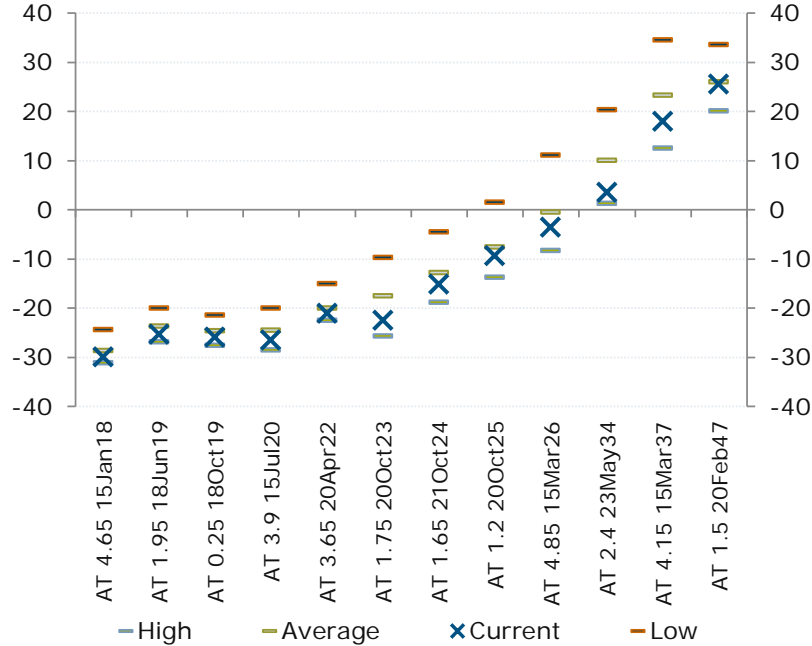
Austria

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
4.650	15 Jan 18	12.06B	-0.438	4.6	5.0	-0.84	4.1	-29.9	-28.6	-1.00
1.950	18 Jun 19	7.21B	-0.338	10.9	11.6	-0.60	-3.7	-25.4	-23.7	-1.01
0.250	18 Oct 19	7.95B	-0.320	10.3	11.1	-0.52	-4.6	-25.9	-24.6	-0.83
3.900	15 Jul 20	13.01B	-0.271	9.0	10.7	-1.09	-3.9	-26.5	-24.5	-1.14
3.650	20 Apr 22	8.71B	-0.045	14.0	16.9	-1.74	1.3	-21.1	-20.0	-0.68
1.750	20 Oct 23	9.99B	0.131	15.3	21.6	-1.74	1.2	-22.5	-17.6	-1.30
1.650	21 Oct 24	10.35B	0.321	21.0	24.3	-0.89	0.2	-15.1	-12.8	-0.58
1.200	20 Oct 25	9.28B	0.498	25.4	27.8	-0.59	-0.4	-9.4	-7.5	-0.43
4.850	15 Mar 26	8.01B	0.512	21.8	24.9	-0.72	-0.5	-3.5	-0.5	-0.54
2.400	23 May 34	5.19B	1.130	28.2	30.4	-0.72	4.9	3.6	10.0	-1.07
4.150	15 Mar 37	12.22B	1.230	28.8	29.0	-0.07	4.5	18.0	23.3	-0.89
1.500	20 Feb 47	1.95B	1.503	43.3	39.4	1.91	2.4	25.5	26.0	-0.13

Spreads against the German curve, bp



Asset swap term structure, bp





Greece

	15	16	17
GDP, %, y/y	1.0	2.5	3.6
Public balance	-2.5	1.1	1.6
Debt/GDP	176.3	170.2	159.2

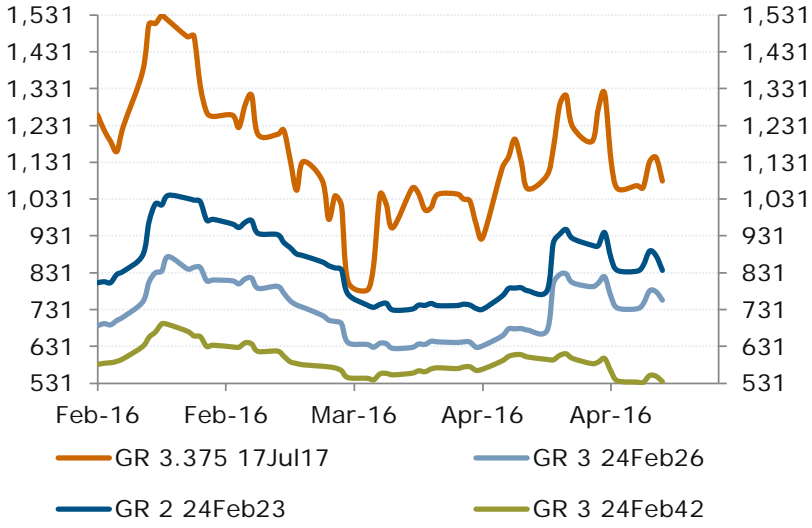
Source: European Commission, Winter 2015 forecast

Rating	Caa1/B-/CCC
Moody's / S&P / Fitch	

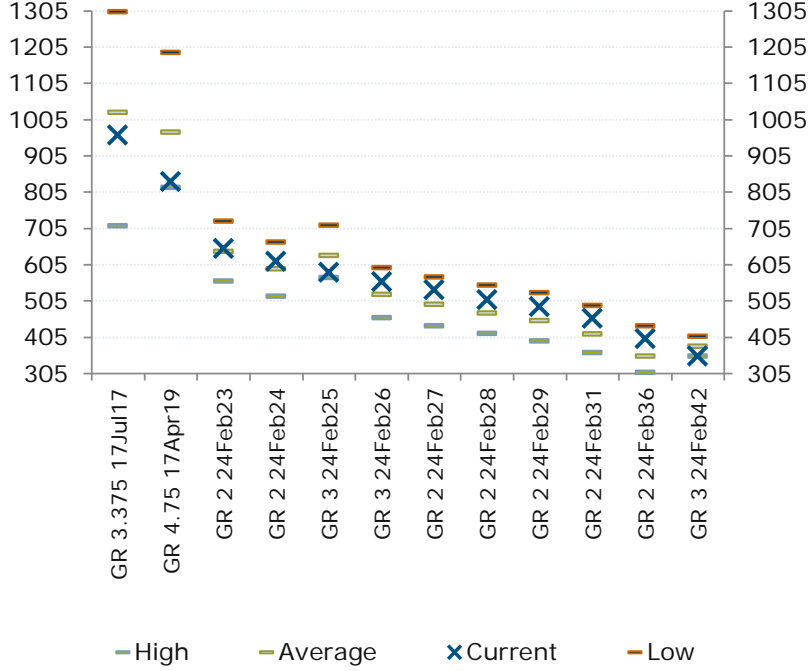
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
3.375	17 Jul 17	2.02B	10.315	1,080.1	1,163.9	-0.62	-218.1	961.7	1,024.6	-0.59
4.750	17 Apr 19	4.02B	9.034	949.2	1,142.3	-1.35	-89.1	833.2	970.2	-1.37
3.000	24 Feb 23	1.04B	8.274	837.3	864.9	-0.34	-89.0	649.7	641.3	0.17
3.000	24 Feb 24	1.25B	8.101	808.0	813.3	-0.07	-45.6	614.3	592.6	0.47
3.000	24 Feb 25	1.84B	7.939	777.9	872.4	-1.23	-27.7	582.8	630.6	-1.30
3.000	24 Feb 26	1.37B	7.850	756.2	737.0	0.28	-36.3	557.4	522.3	0.86
3.000	24 Feb 27	1.21B	7.794	741.8	710.0	0.50	-28.3	535.6	494.5	1.07
3.000	24 Feb 28	1.84B	7.566	711.1	688.5	0.37	-42.3	507.3	471.5	0.99
3.000	24 Feb 29	1.48B	7.505	697.6	668.0	0.49	-37.3	489.0	451.0	1.07
3.000	24 Feb 31	1.29B	7.338	667.9	625.8	0.73	-43.2	456.4	412.8	1.31
3.000	24 Feb 36	1.33B	6.969	606.1	552.2	1.03	-47.5	399.9	352.7	1.56
3.000	24 Feb 42	1.05B	6.398	535.0	594.7	-1.88	-53.8	352.7	379.2	-2.35

Spreads against the German curve, bp



Asset swap term structure, bp



Portugal

	15	16	17
GDP, %, y/y	1.0	1.6	1.7
Public balance	-4.6	-3.2	-2.8
Debt/GDP	128.9	124.5	123.5

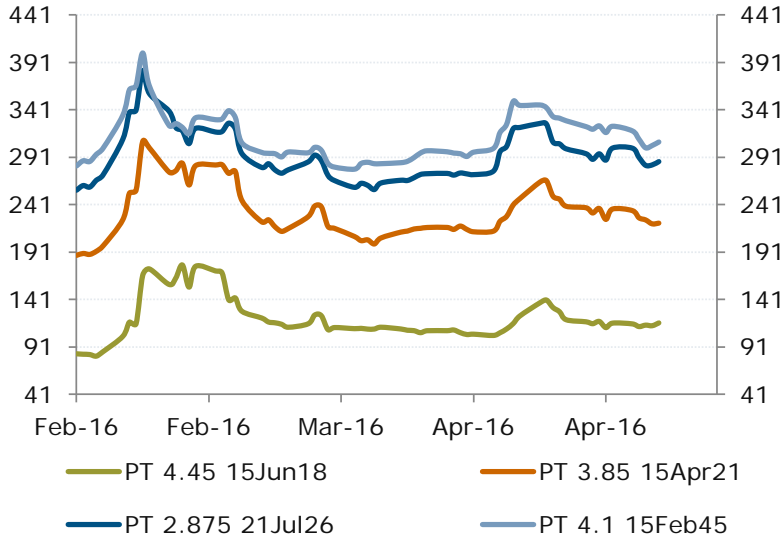
Source: European Commission, Winter 2015 forecast

Rating	Ba1/BB/BB+
Moody's / S&P / Fitch	

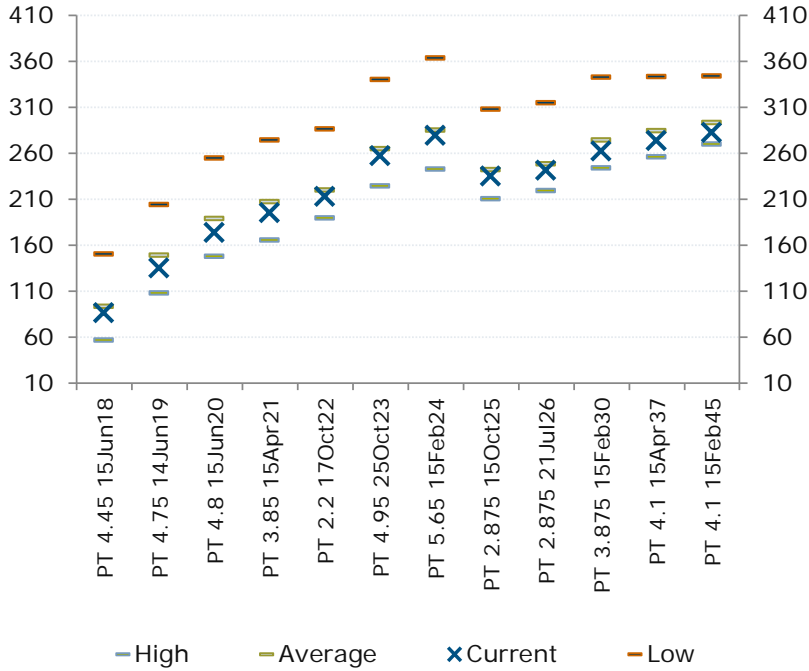
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
4.450	15 Jun 18	8.99B	0.680	115.9	121.3	-0.31	5.4	86.2	93.0	-0.39
4.750	14 Jun 19	10.99B	1.174	162.2	174.8	-0.64	-1.1	134.9	149.2	-0.73
4.800	15 Jun 20	10.99B	1.602	197.1	211.6	-0.63	-0.3	173.5	188.8	-0.68
3.850	15 Apr 21	10.01B	1.933	221.0	234.3	-0.56	-0.3	194.9	207.2	-0.56
2.200	17 Oct 22	4.0B	2.428	256.3	265.9	-0.42	0.4	212.5	219.5	-0.36
4.950	25 Oct 23	8.02B	2.737	275.7	284.9	-0.37	-1.7	256.9	264.7	-0.34
5.650	15 Feb 24	12.02B	2.915	289.7	296.9	-0.29	-1.0	278.9	285.0	-0.27
2.875	15 Oct 25	10.52B	3.011	276.9	284.8	-0.36	1.7	234.8	241.6	-0.38
2.875	21 Jul 26	4.19B	3.187	285.9	294.0	-0.36	2.4	241.2	248.1	-0.39
3.875	15 Feb 30	4.05B	3.585	298.9	308.7	-0.43	-1.8	262.4	274.0	-0.66
4.100	15 Apr 37	8.02B	3.947	300.3	306.7	-0.29	1.2	273.1	284.2	-0.71
4.100	15 Feb 45	3.0B	4.127	306.6	312.9	-0.29	-0.2	282.5	293.3	-0.77

Spreads against the German curve, bp



Asset swap term structure, bp





Ireland

	15	16	17
GDP, %, y/y	4.8	3.5	3.6
Public balance	-4.0	-2.9	-3.1
Debt/GDP	110.8	110.3	107.9

Source: European Commission, Winter 2015 forecast

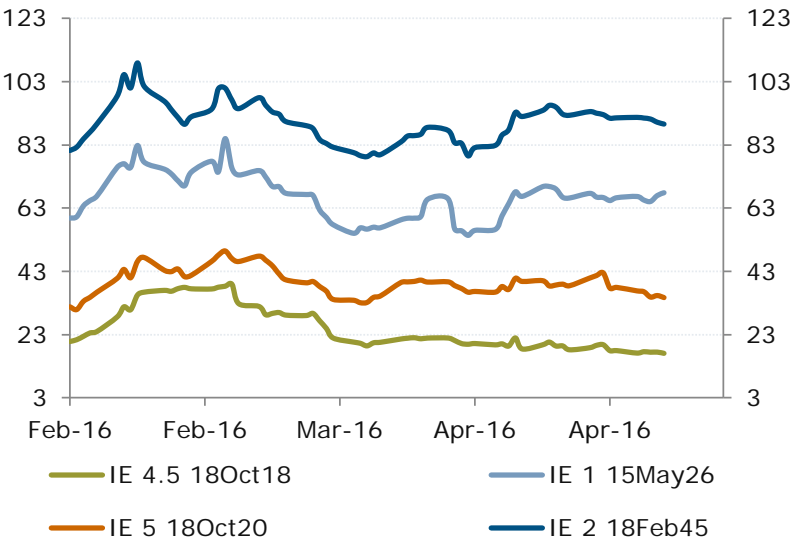
Rating	Baa1/A/A-
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Moody's / S&P / Fitch

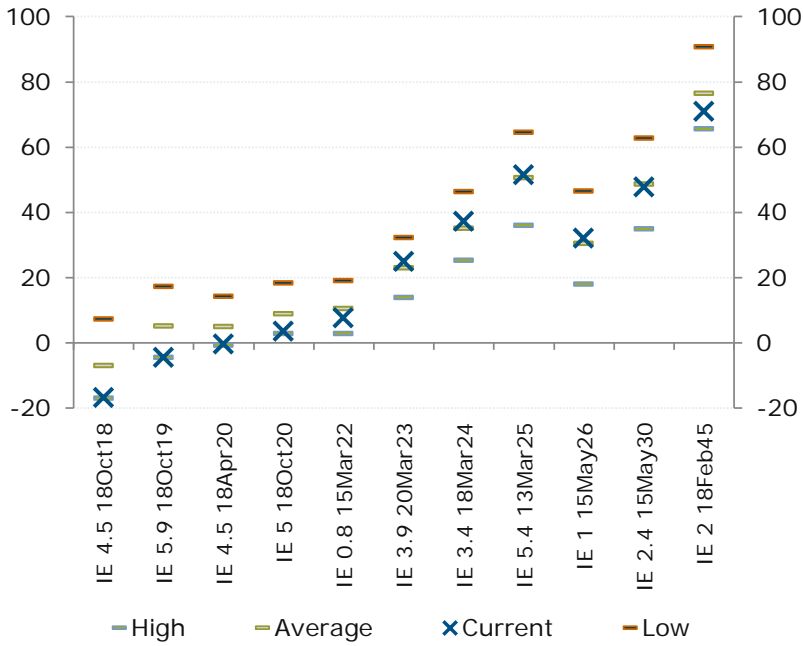
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
4.500	18 Oct 18	9.58B	-0.297	17.4	25.6	-1.28	3.2	-16.8	-7.0	-1.31
5.900	18 Oct 19	6.58B	-0.133	29.0	36.9	-1.83	0.9	-4.5	5.1	-1.96
4.500	18 Apr 20	11.77B	-0.054	33.2	37.7	-1.28	-0.1	-0.4	4.9	-1.43
5.000	18 Oct 20	8.99B	0.018	35.0	40.0	-1.40	-0.9	3.5	8.9	-1.57
0.800	15 Mar 22	4.25B	0.250	44.3	49.1	-1.15	-0.3	7.6	10.4	-0.98
3.900	20 Mar 23	5.95B	0.471	56.3	56.2	0.03	0.9	24.9	22.9	0.53
3.400	18 Mar 24	8.01B	0.711	68.2	67.4	0.16	0.4	37.2	35.0	0.49
5.400	13 Mar 25	11.01B	0.873	70.7	70.4	0.05	0.2	51.5	50.5	0.17
1.000	15 May 26	4.75B	0.995	68.1	67.0	0.19	11.8	32.0	30.5	0.28
2.400	15 May 30	7.78B	1.403	79.1	76.8	0.40	0.1	47.7	48.7	-0.17
2.000	18 Feb 45	5.95B	1.960	89.8	90.7	-0.16	-2.5	70.9	76.4	-1.02

Spreads against the German curve, bp



Asset swap term structure, bp



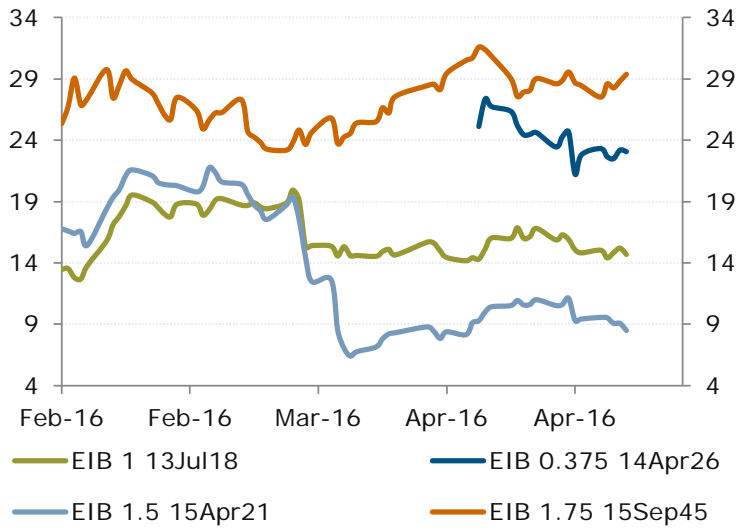


Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

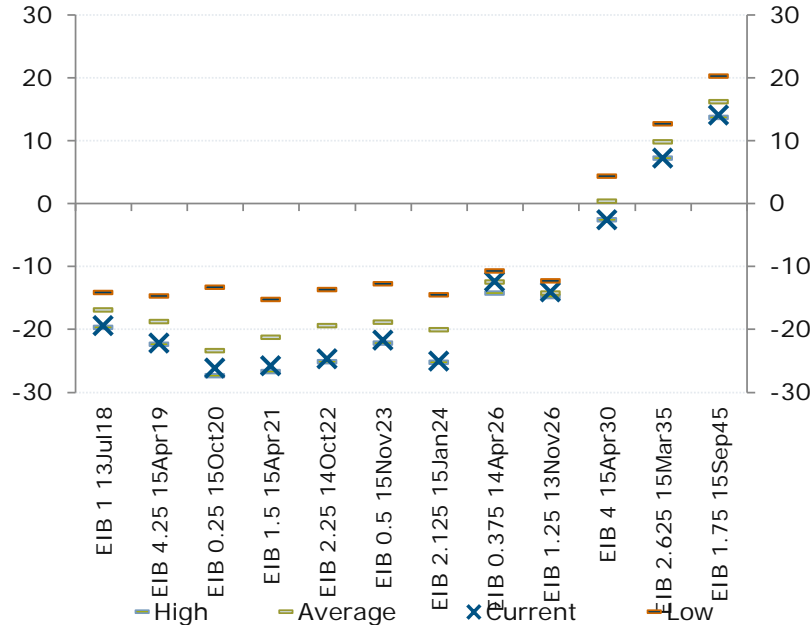
European Investment Bank (EIB)

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
1.000	13 Jul 18	5.0B	-0.327	15.0	16.7	-0.98	0.3	-19.5	-17.0	-1.32
4.250	15 Apr 19	5.0B	-0.324	13.5	15.8	-1.15	0.4	-22.3	-18.8	-1.15
0.250	15 Oct 20	4.0B	-0.240	9.3	12.3	-0.88	-1.1	-26.2	-23.4	-0.79
1.500	15 Apr 21	5.0B	-0.189	8.8	14.2	-1.09	-0.3	-25.9	-21.3	-0.97
2.250	14 Oct 22	5.75B	-0.015	12.1	19.0	-1.58	-0.3	-24.7	-19.4	-1.16
0.500	15 Nov 23	1.5B	0.160	17.3	21.6	-1.93	-0.2	-21.8	-18.9	-0.99
2.125	15 Jan 24	5.0B	0.131	12.3	18.6	-1.72	-0.4	-25.1	-20.1	-1.29
0.375	14 Apr 26	5.0B	0.539	23.4	24.6	-0.92	0.1	-12.5	-12.5	0.03
1.250	13 Nov 26	1.5B	0.559	20.6	22.0	-1.45	0.5	-14.1	-14.3	0.41
4.000	15 Apr 30	6.5B	0.847	24.0	24.0	0.04	-0.3	-2.6	0.3	-1.46
2.625	15 Mar 35	1.7B	1.173	29.5	27.6	0.85	-0.6	7.1	9.8	-1.84
1.750	15 Sep 45	1.3B	1.361	29.7	27.5	1.16	-0.4	14.0	16.1	-1.66

Spreads against the German curve, bp



Asset swap term structure, bp

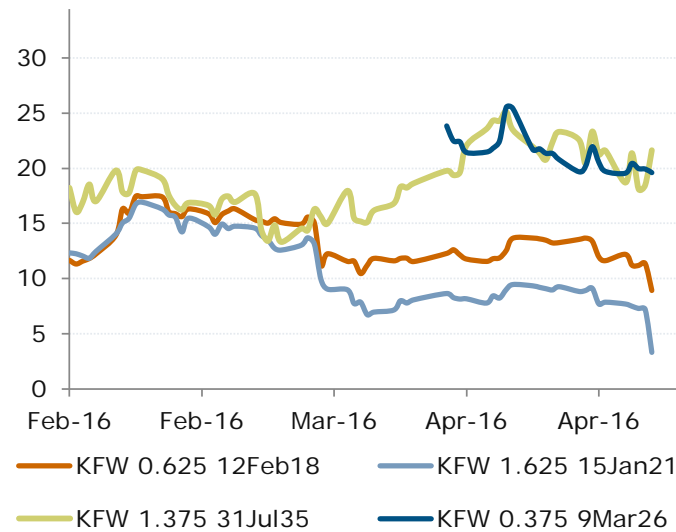


Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

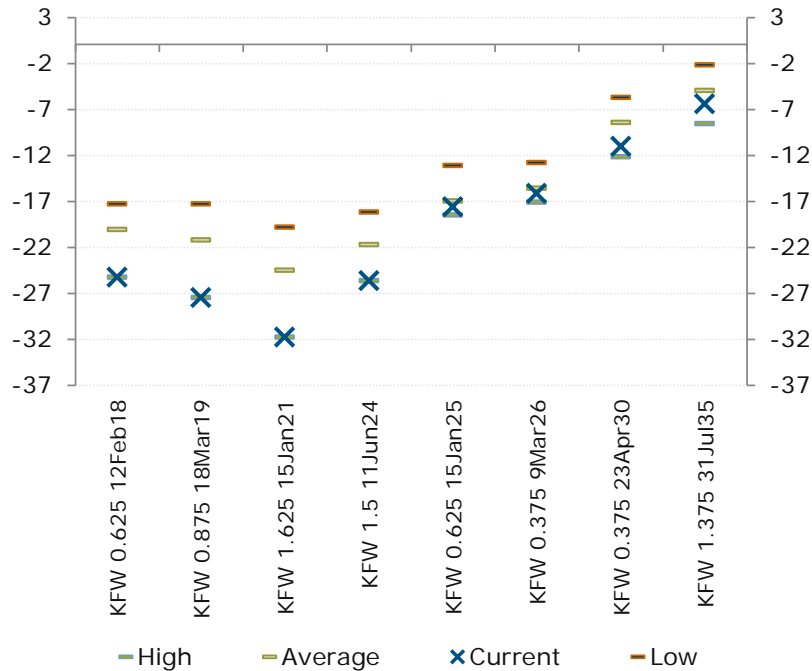
Kreditanstalt für Wiederaufbau (KfW)

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	29-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	29-Apr	60D Avg.	Z-score
0.625	12 Feb 18	2.0B	-0.394	8.9	13.5	-2.55	-4.4	-25.3	-20.1	-3.02
0.875	18 Mar 19	5.0B	-0.378	8.2	13.7	-3.04	-3.4	-27.6	-21.3	-2.48
1.625	15 Jan 21	5.0B	-0.272	3.3	10.9	-2.49	-4.5	-31.9	-24.6	-2.54
1.500	11 Jun 24	3.0B	0.180	11.9	17.0	-2.51	-0.5	-25.7	-21.8	-1.90
0.625	15 Jan 25	4.0B	0.342	19.7	21.1	-1.19	-0.6	-17.7	-17.1	-0.70
0.375	09 Mar 26	4.0B	0.488	19.6	21.6	-1.54	-0.1	-16.3	-15.7	-0.66
0.375	23 Apr 30	2.0B	0.896	28.8	28.6	0.09	-2.4	-11.1	-8.5	-2.40
1.375	31 Jul 35	1.0B	1.107	21.6	18.6	1.21	2.2	-6.5	-5.0	-1.44

Spreads against the German curve, bp



Asset swap term structure, bp



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