

Euro Rates Update

Nordea Research, 03 marts 2016

Contents

Government bond yields, curve slopes and spreads.....	1
Swaps and Forwards.....	2
- Carry.....	3
- Money market rates.....	3
- Inflation linked bonds.....	3
- Inflation swaps.....	3
Credit & money market spreads.....	4
Swaption volatilities.....	4
Swap & cross-country spreads.....	4
Country relative value.....	5
- Overview of rich & cheap bonds.....	5
- Individual country overviews.....	

US Treasury Yields				
	2Y	5Y	10Y	30Y
	0.86	1.36	1.87	2.73
Δ 1D	6.4	11.0	9.1	5.9
Δ 1W	10.1	10.9	8.5	7.3

German Benchmark Yields				
	2Y	5Y	10Y	30Y
	-0.55	-0.36	0.20	0.98
Δ 1D	0.6	2.5	5.6	7.9
Δ 1W	-3.0	-5.1	-1.0	8.8

German Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-18.6	-56.0	-74.6	-77.8
Δ 1D	1.9	3.0	4.9	2.4
Δ 1W	-2.1	4.1	2.0	9.7

EUR Swap Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-19.9	-57.6	-77.5	-54.2
Δ 1D	1.4	3.4	4.8	1.6
Δ 1W	-1.9	5.0	3.1	8.2

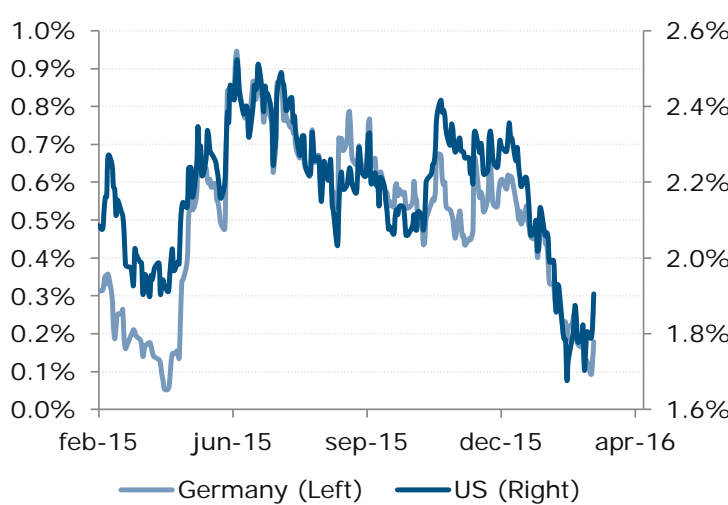
German Asset Swap Levels				
	2Y	5Y	10Y	30Y
	-34.4	-36.6	-36.4	-9.1
Δ 1D	0.0	0.6	0.4	1.0
Δ 1W	-0.3	-0.2	-0.8	0.7

10Y Benchmark Yields				
	Yield	Δ 1D	Spread	Δ 1D
GER	0.197	5.6	-	-
FRA	0.554	5.3	38.0	-0.2
ITA	1.431	2.8	125.4	-2.7
ESP	1.542	3.7	137.6	-1.7
BEL	0.526	5.0	40.3	-0.4
HOL	0.336	5.2	20.6	-0.2
AUT	0.482	5.6	31.9	0.1
GRE	9.344	-14.9	926.2	-20.3
POR	2.893	0.1	273.2	-5.4
FIN	0.488	4.6	33.7	-0.9
IRL	0.836	3.8	74.7	-1.7

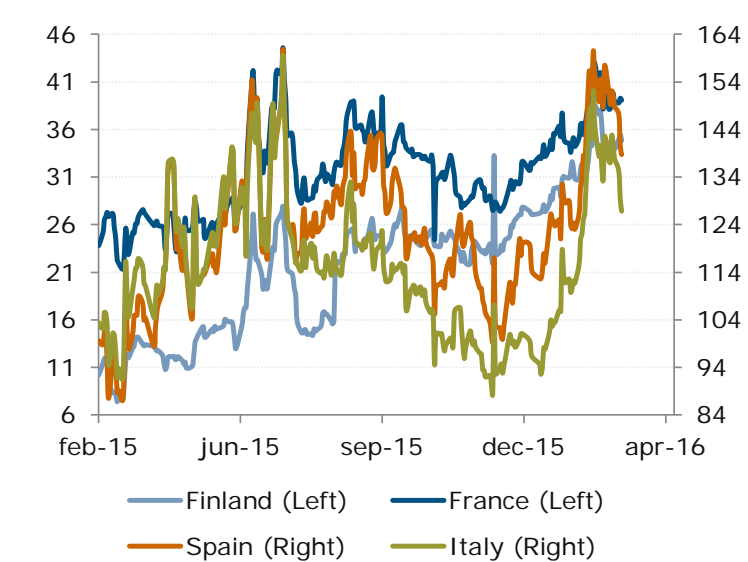
Spread = Maturity interpolated spread to German government par yield curve

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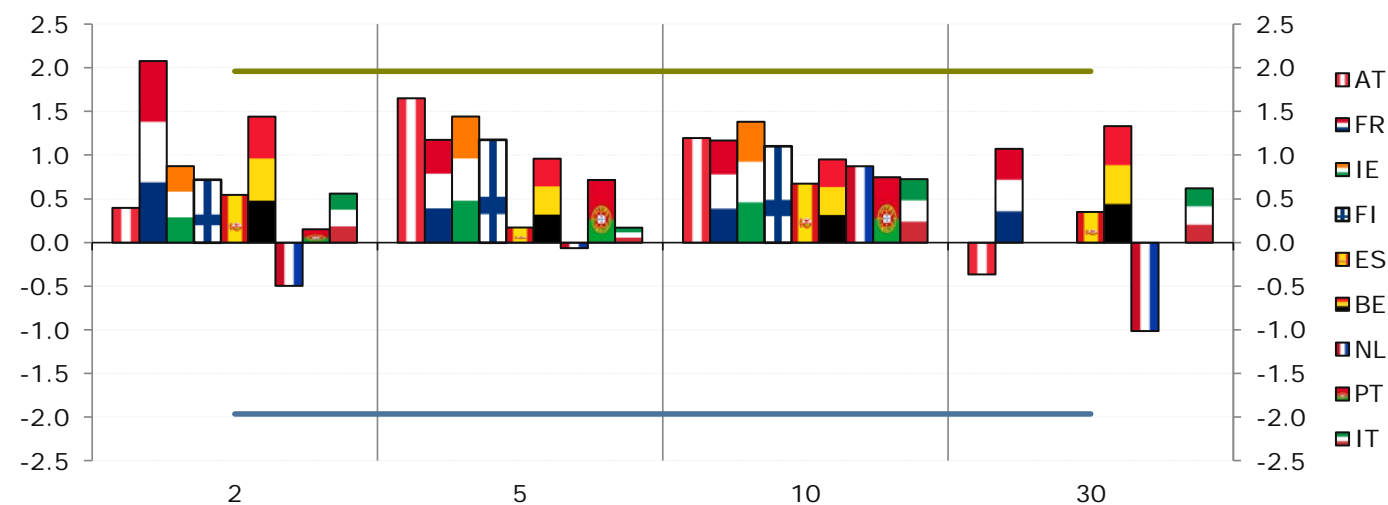
German & US 10-year benchmark yields, %



10 year spreads against Germany, bp



Z-scores of benchmark vs. Germany



Upcoming Issuance (source: Bloomberg)						
Date	Country	Coupon	Maturity	Amount (EURbn)		
03 mar	SP					
03 mar	FR					
07 mar	LN	2.10%	2021			
08 mar	AS					
09 mar	GE	0.00%	2018	4.00		

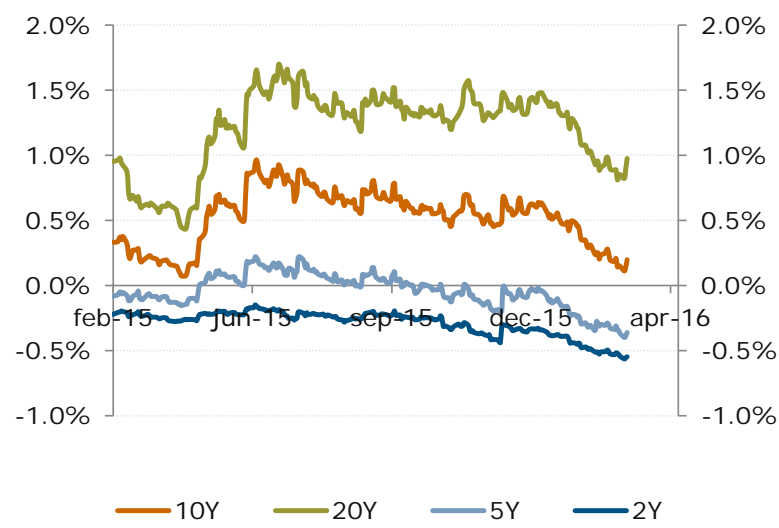
All bond quotes are taken at 16:15 CET.

Bond Yields & Curves

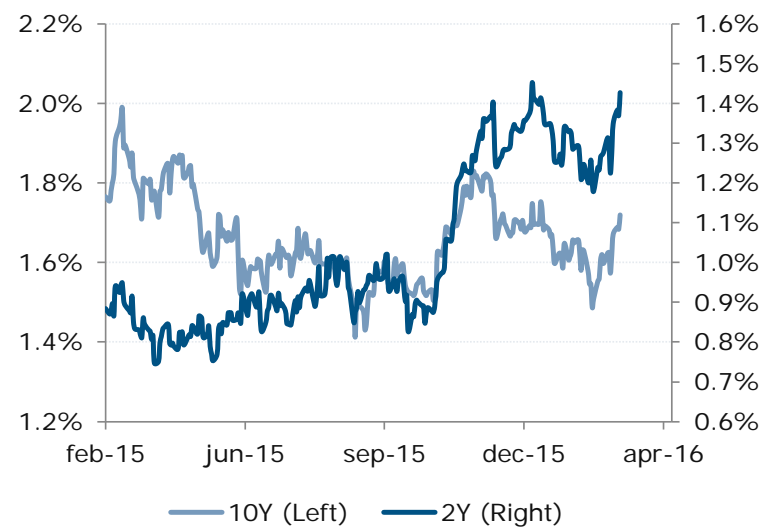
Yield Levels

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

German benchmark bond yields, %



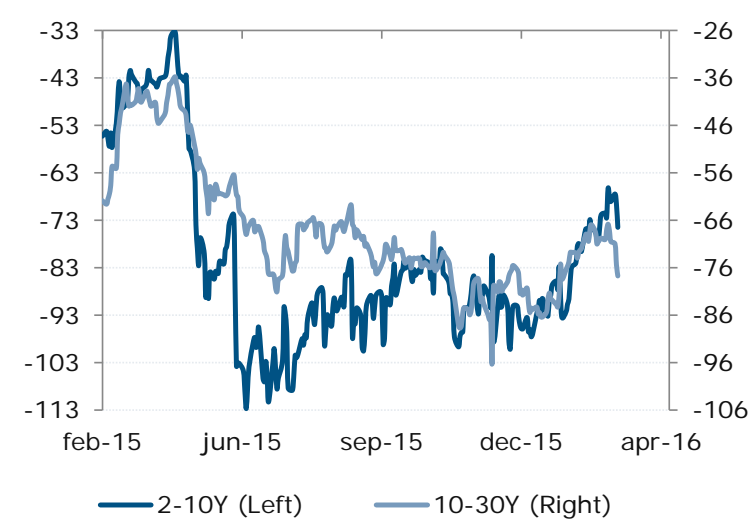
USA-Germany spreads, annualized yields, %



Bond Curve Shape

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

German yield curve slopes, bp

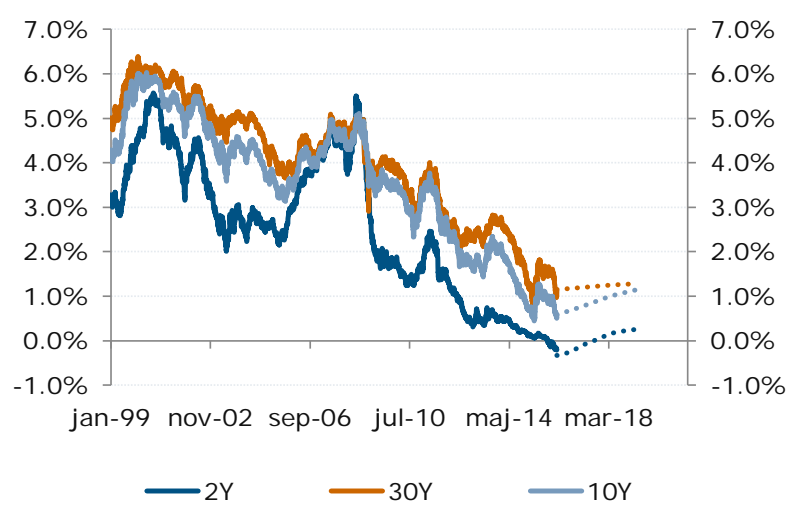


Bonds vs. equities



Swaps and Forwards

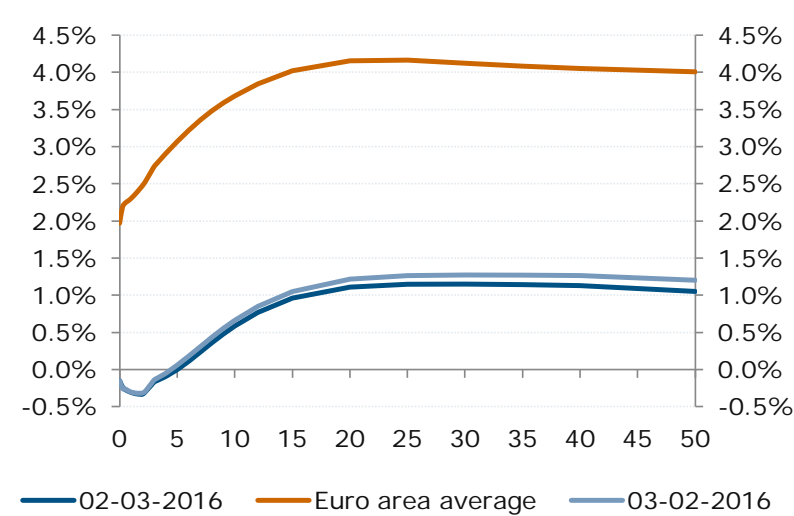
EUR swap rates and implied forwards, %



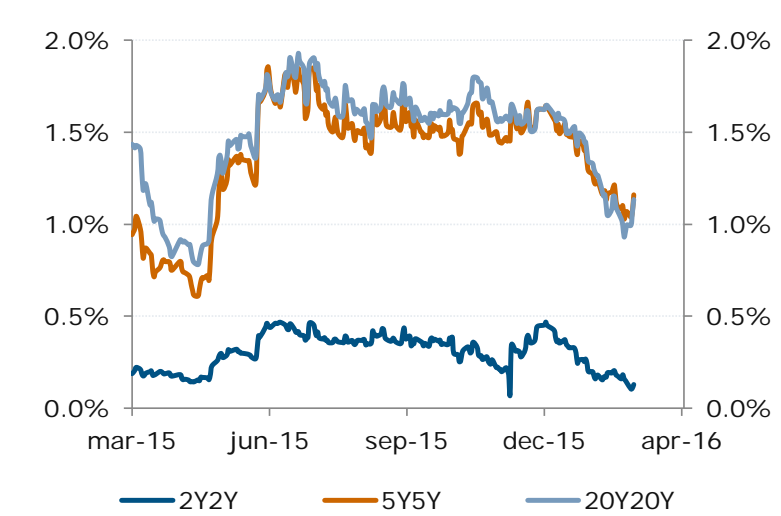
EUR-USD spreads and implied forwards, %



EUR swap curve shape vs. historical



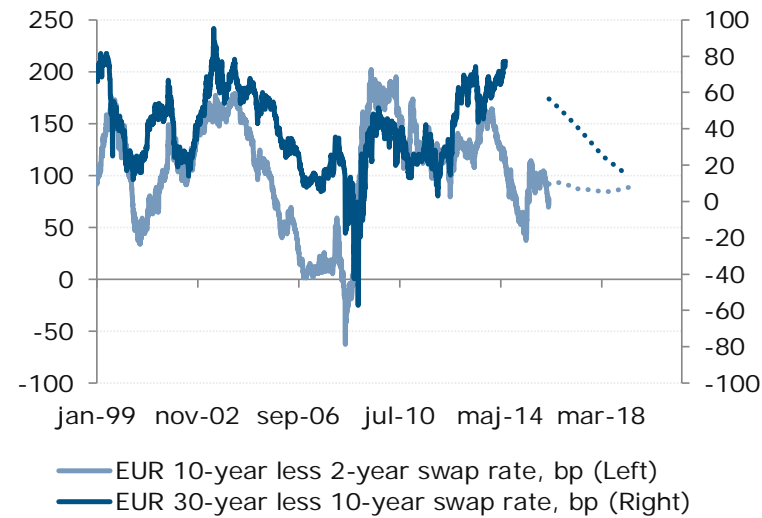
Historical forward rates, %



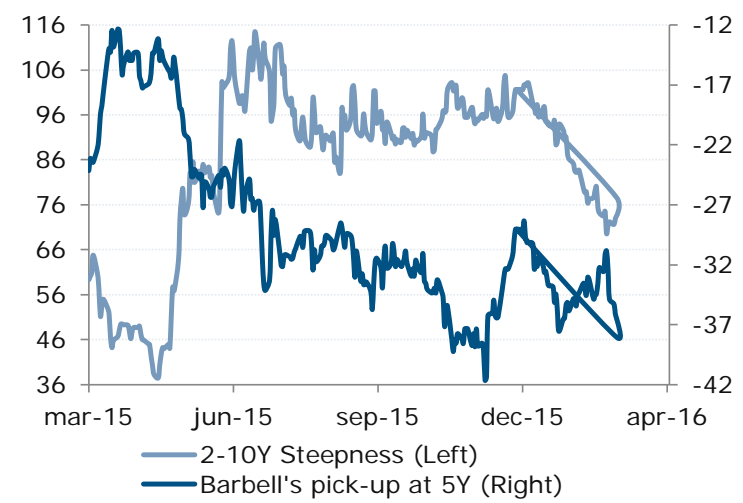
E.g. 2Y2Y swap rate illustrates the rate of a 2-year swap with a 2-year forward start.

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

EUR swap curve slopes and forwards



Curvature (EUR swap curve)

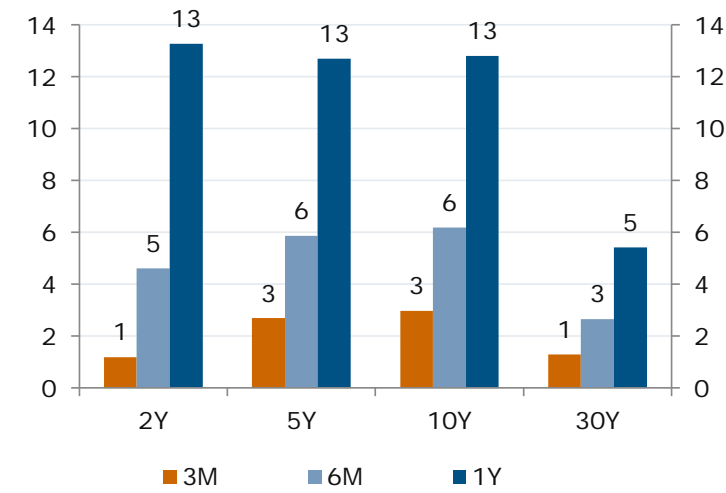


Carry

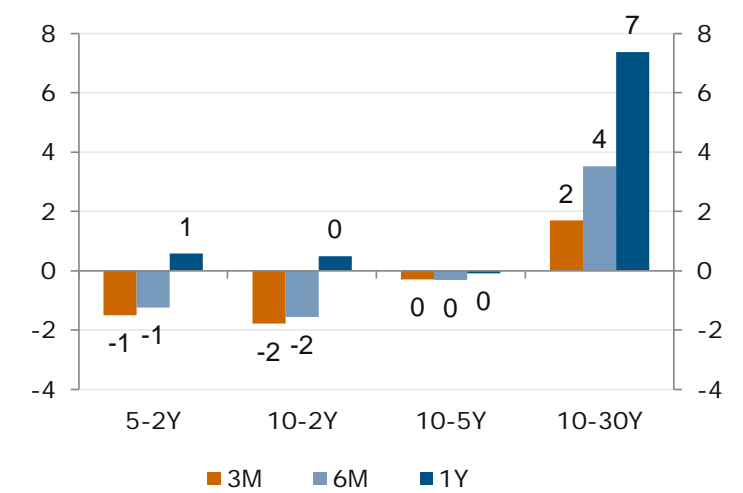
The carry on the given horizon illustrates how much the spot swap rate may rise for a receiver swap position in a forward-starting swap to result in zero profit.

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



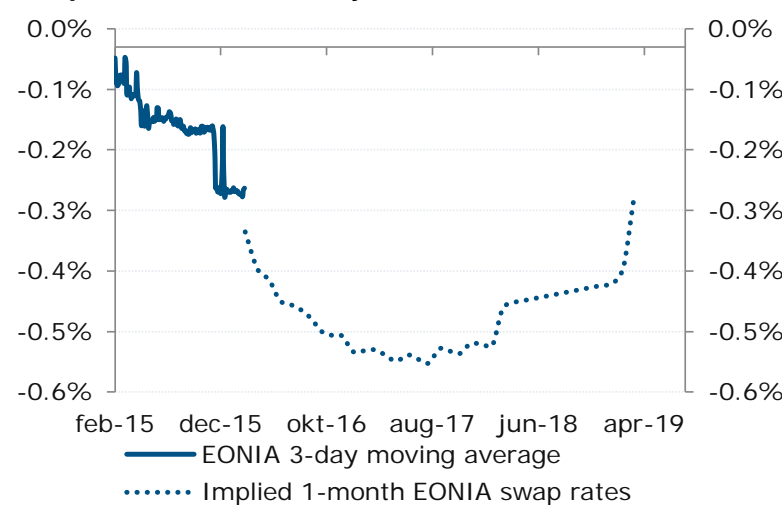
Yield buffers for duration-neutral steepeners, bp



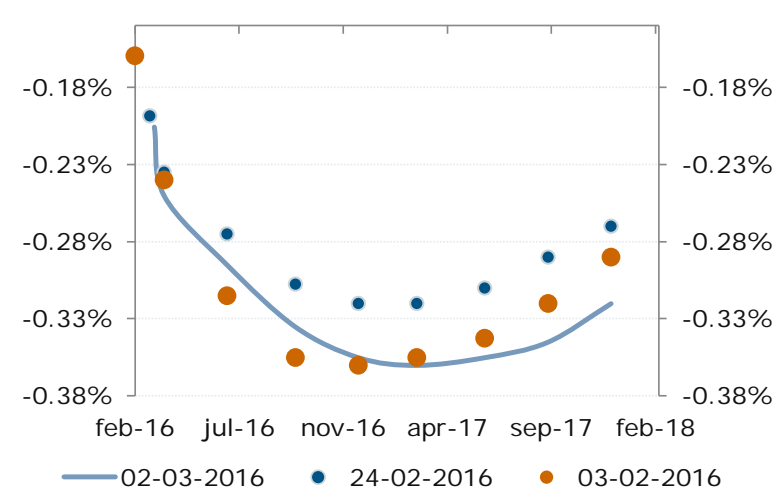
Money Market Rates

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

Expectations and history for EONIA



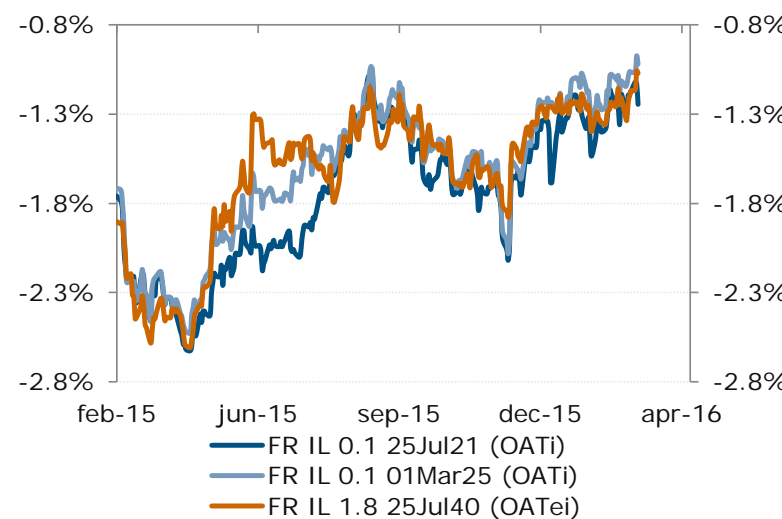
Euribor futures curve, now, 1 wk & 1M ago



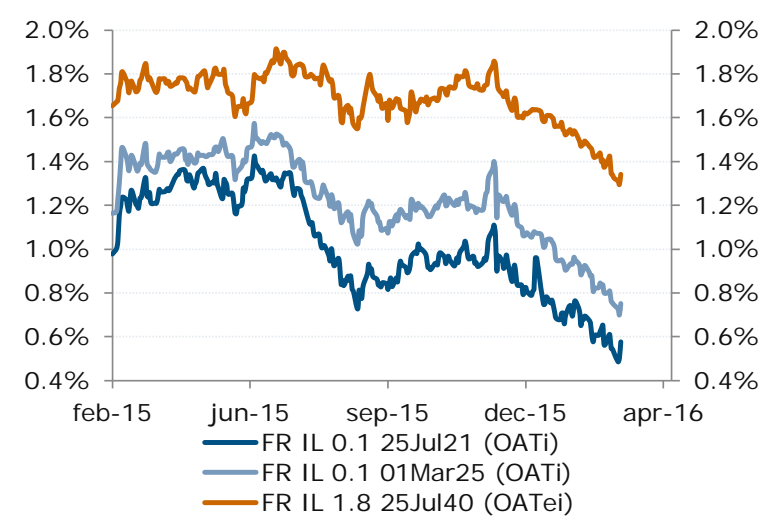
Inflation-linked Bonds

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

Real yields, %



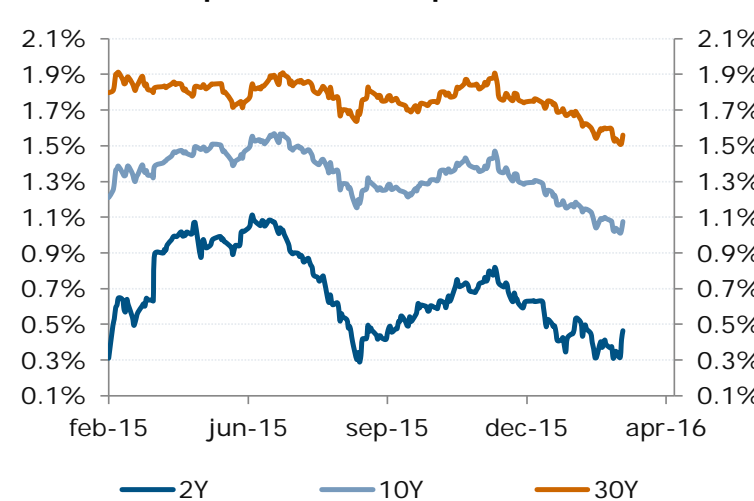
Break-even inflation history, %



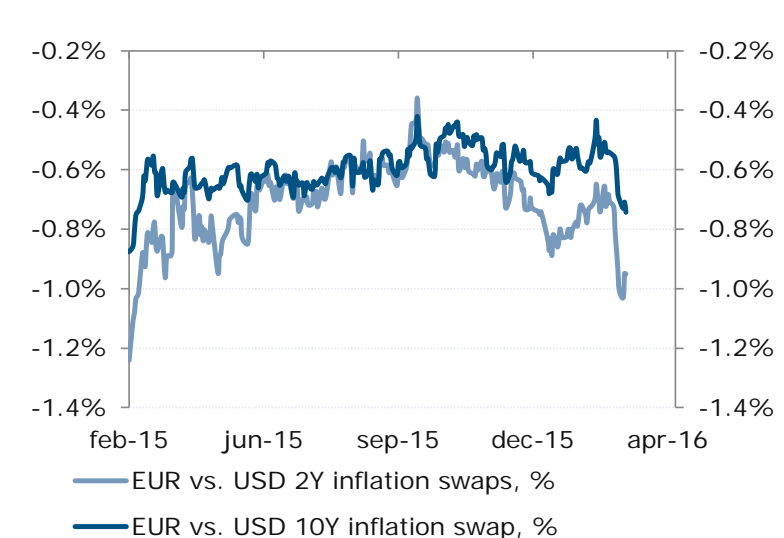
Inflation Swaps

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

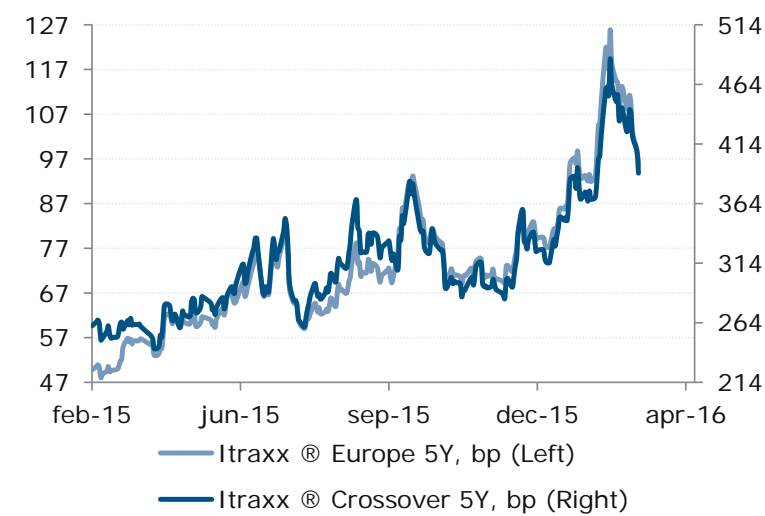


Credit & Money Market Spreads

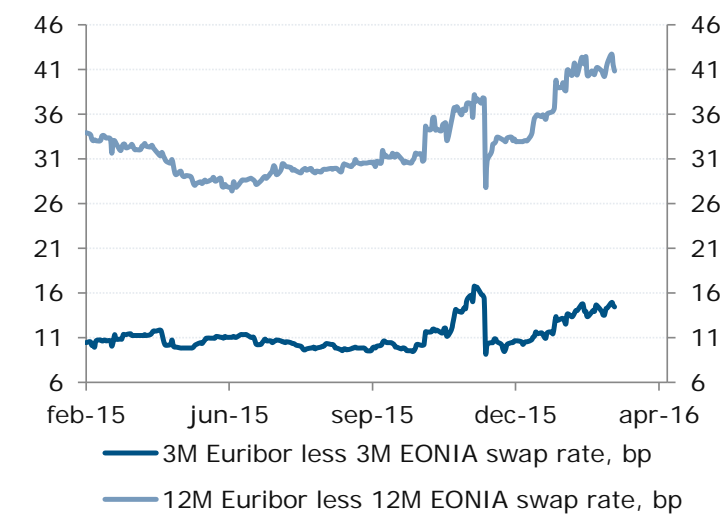
Credit default swap indices illustrate the annual cost of buying protection against a credit event of a company. iTraxx® Europe is comprised of the 125 most liquid CDS contracts referencing European investment grade credits, iTraxx® Crossover of 50 sub-investment grade credits.

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



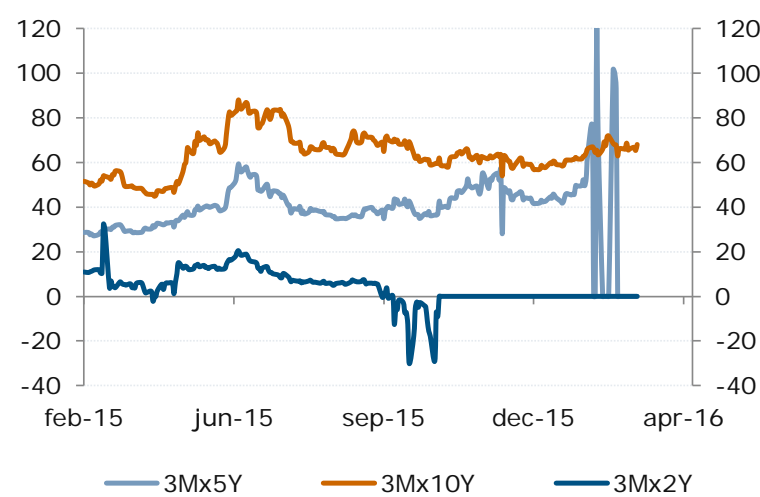
Money market rates vs. EONIA swap rates



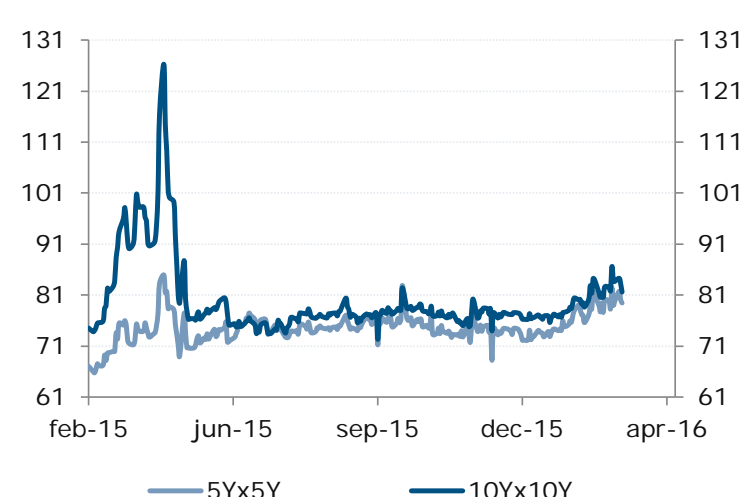
Swaption Volatilities

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

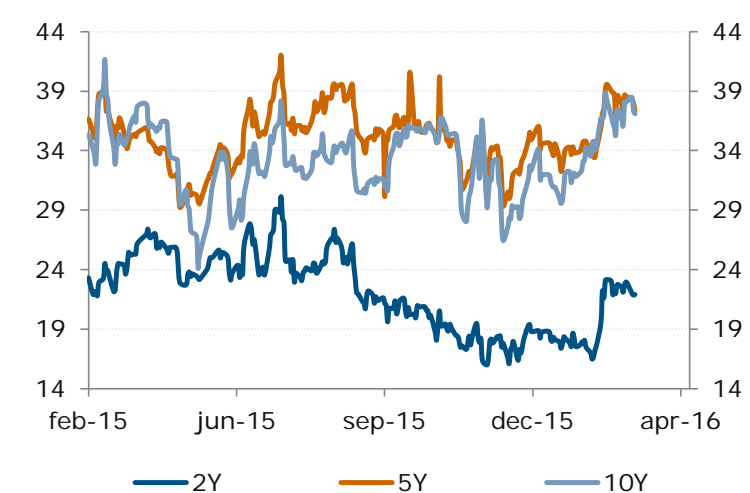
Swap spread:
Benchmark bond's spread to EUR swap curve.

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

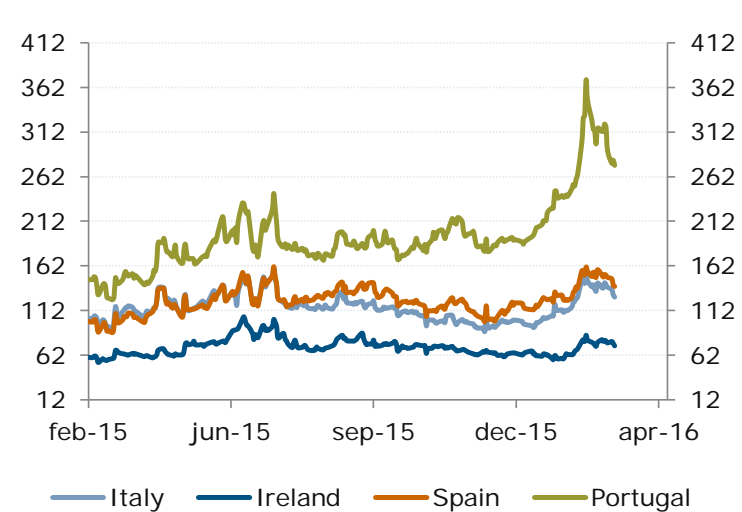
1Y break-even spread changes indicate how much a bond's spread against an equivalent bond trading on the German curve may widen in order to give the same return in one year.

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

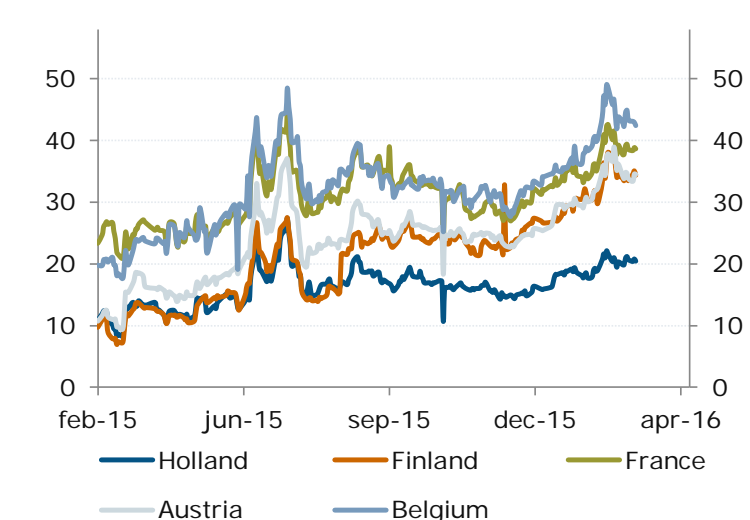
German swap spreads, bp



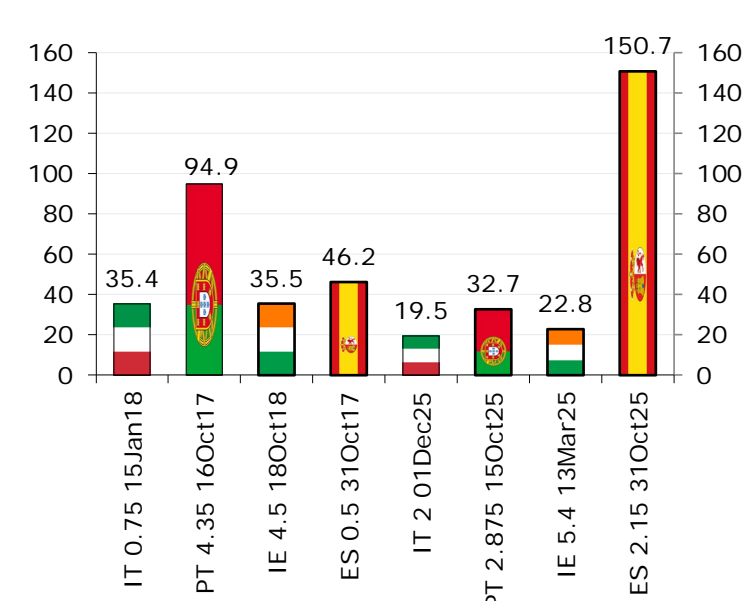
10Y non-AAA spreads against Germany, bp



10Y AAA/AA+ spreads to Germany, bp



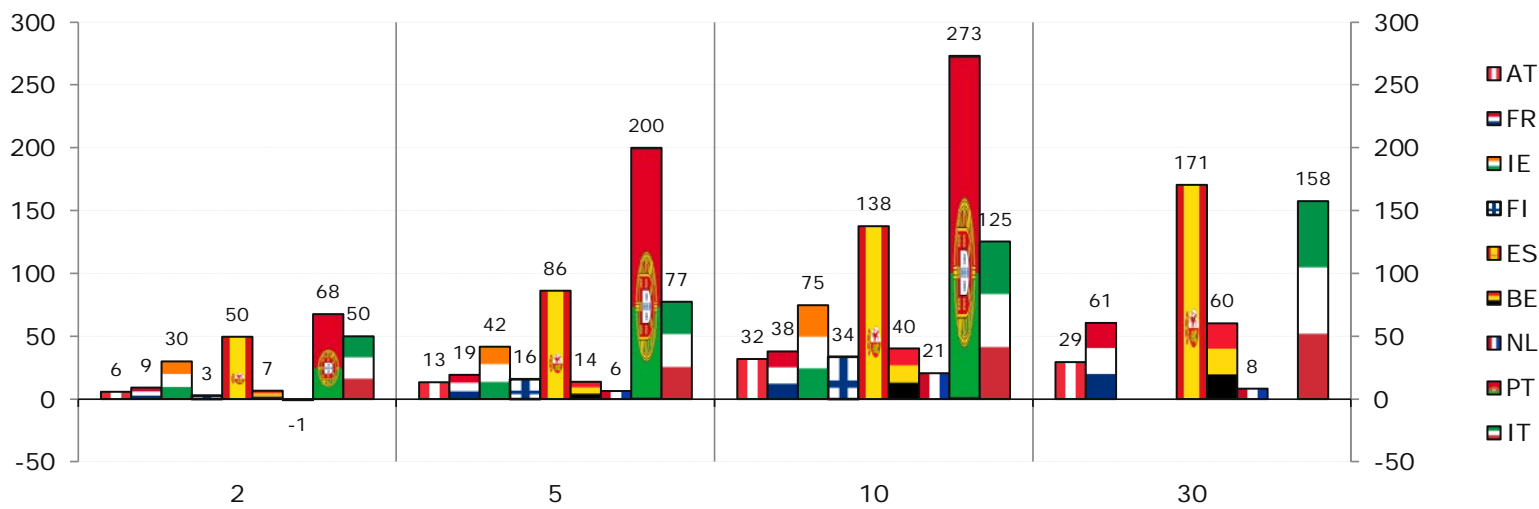
1Y B/E spread changes against Germany, bp



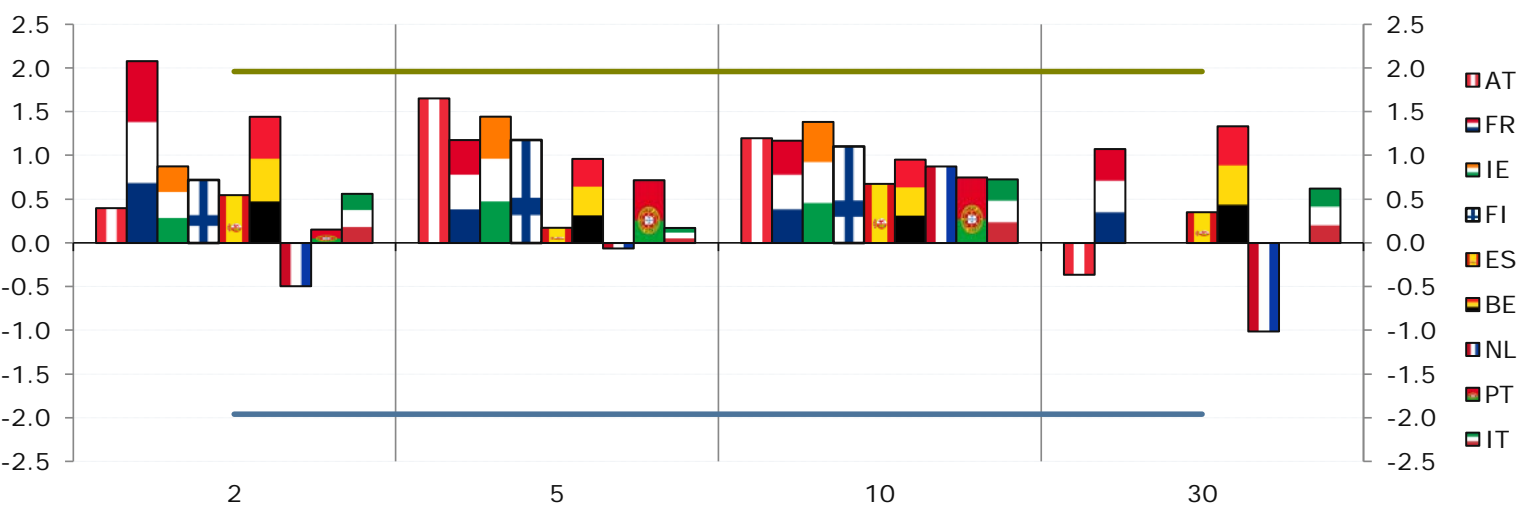


Country Relative Value

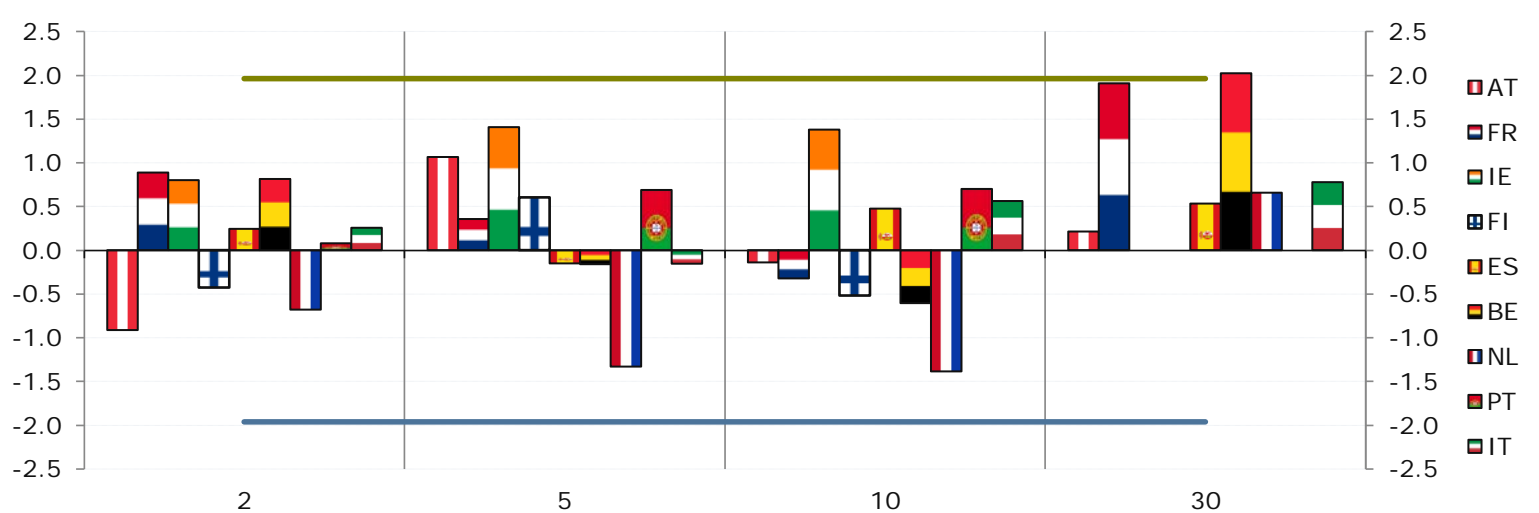
Benchmark spreads over the maturity-interpolated German par curve, bp



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	ES	31 jan 19	0.250	64.0	-1.79	KfW	12 feb 18	0.625	-19.0	-2.83
	Cheap	FR	25 okt 17	4.250	9.2	EIB	15 okt 18	2.500	-14.7	1.19
5Y: Rich	DE	11 okt 19	0.250	-19.0	-1.24	NL	15 jul 20	3.500	-29.2	-1.31
	Cheap	BE	28 sep 19	3.000	14.8	IE	18 okt 20	5.000	14.4	1.60
7Y: Rich	DE	04 jul 22	1.750	-30.1	-1.78	DE	04 jul 22	1.750	-41.9	-1.55
	Cheap	AT	20 apr 22	3.650	20.3	KfW	11 jun 24	1.500	-18.5	3.35
10Y: Rich	DE	15 feb 25	0.500	-36.3	-1.18	BE	22 jun 26	1.000	7.3	-1.40
	Cheap	KfW	15 jan 25	0.625	23.3	KfW	15 jan 25	0.625	-14.7	2.77
15Y: Rich	NL	15 jan 37	0.000	13.8	-1.64	DE	04 jan 31	5.500	-27.9	-0.59
	Cheap	IE	15 maj 30	2.400	79.8	FR	25 apr 35	4.750	47.9	1.61
20Y: Rich	DE	15 aug 46	2.500	-74.7	-1.22	AT	20 jun 44	3.150	33.0	0.57
	Cheap	BE	22 jun 45	3.750	60.3	BE	22 jun 45	3.750	74.1	2.02

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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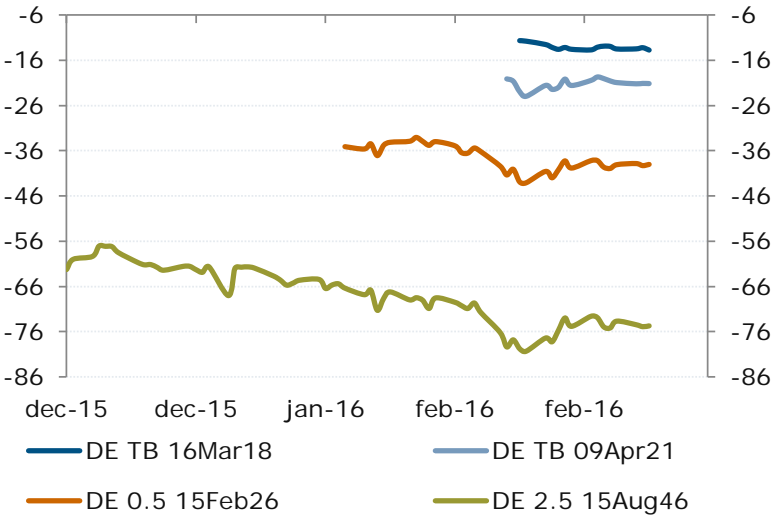
Moody's / S&P / Fitch

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

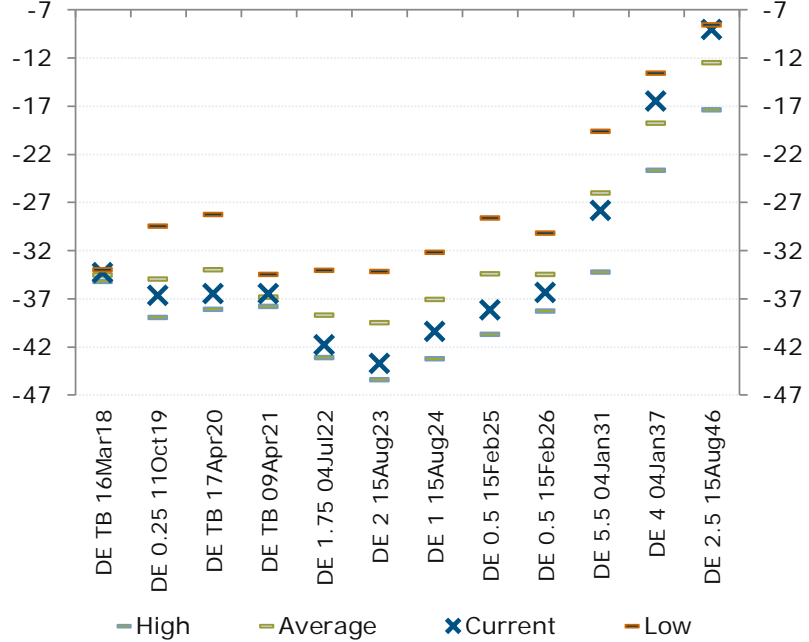
Germany

Benchmark Bonds				Spread vs. France				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
0.000	16 mar 18	5.0B	-0.549	-13.7	-13.0	-1.33	-0.4	-34.4	-34.6	0.61
0.250	11 okt 19	16.0B	-0.498	-19.0	-16.5	-1.24	0.8	-36.7	-35.0	-0.83
0.000	17 apr 20	20.0B	-0.455	-19.2	-16.3	-1.23	0.2	-36.5	-34.0	-1.20
0.000	09 apr 21	9.0B	-0.363	-21.1	-21.2	0.06	3.6	-36.6	-36.9	0.54
1.750	04 jul 22	24.0B	-0.277	-30.1	-25.9	-1.78	-0.8	-41.9	-38.8	-1.55
2.000	15 aug 23	18.0B	-0.162	-35.3	-31.0	-1.76	-0.1	-43.8	-39.5	-1.51
1.000	15 aug 24	18.0B	-0.009	-36.1	-32.9	-1.16	-0.4	-40.5	-37.2	-1.14
0.500	15 feb 25	23.0B	0.074	-36.3	-32.4	-1.18	0.6	-38.2	-34.5	-1.24
0.500	15 feb 26	10.0B	0.197	-39.0	-37.6	-0.54	0.6	-36.4	-34.5	-0.82
5.500	04 jan 31	17.0B	0.542	-55.7	-50.8	-1.07	0.0	-27.9	-26.1	-0.59
4.000	04 jan 37	23.0B	0.822	-66.6	-60.3	-1.15	0.2	-16.5	-18.9	1.17
2.500	15 aug 46	14.0B	0.975	-74.7	-68.2	-1.22	-0.1	-9.1	-12.6	1.86

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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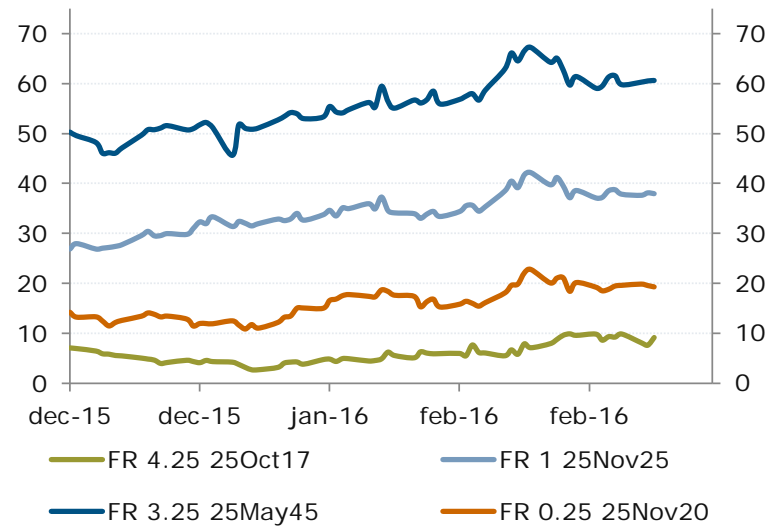
Moody's / S&P / Fitch

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

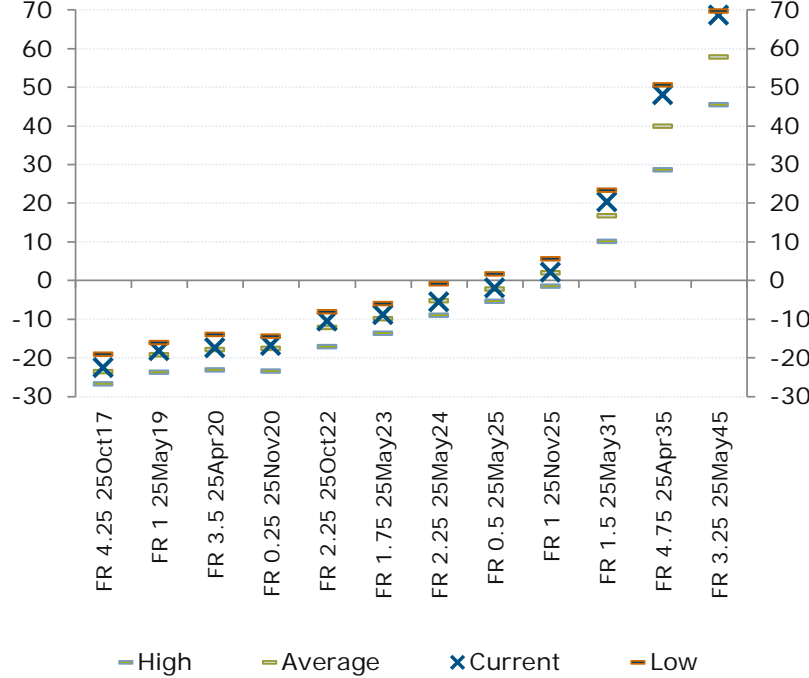
France

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
4.250	25 okt 17	34.03B	-0.435	9.2	6.1	2.00	1.8	-22.6	-23.7	0.68
1.000	25 maj 19	23.02B	-0.342	16.3	13.5	1.61	0.3	-18.3	-19.3	0.71
3.500	25 apr 20	36.02B	-0.275	17.3	14.8	1.19	0.4	-17.5	-18.0	0.26
0.250	25 nov 20	20.95B	-0.203	19.3	16.3	1.14	0.2	-16.9	-17.7	0.51
2.250	25 okt 22	27.01B	0.052	28.1	23.7	1.70	0.7	-10.6	-12.3	0.80
1.750	25 maj 23	32.97B	0.144	30.5	26.6	1.97	0.6	-8.9	-10.0	0.67
2.250	25 maj 24	30.55B	0.284	31.0	28.6	0.95	0.2	-5.7	-5.3	-0.22
0.500	25 maj 25	31.02B	0.473	36.0	32.9	1.11	0.2	-2.0	-2.2	0.15
1.000	25 nov 25	25.99B	0.554	38.0	34.4	1.14	-0.4	2.1	1.9	0.18
1.500	25 maj 31	9.44B	1.123	48.5	44.5	0.90	-0.2	20.2	16.7	1.19
4.750	25 apr 35	25.03B	1.285	43.3	39.3	0.84	0.5	47.9	39.8	1.61
3.250	25 maj 45	17.01B	1.624	60.6	55.9	1.04	-0.1	68.6	57.7	1.81

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

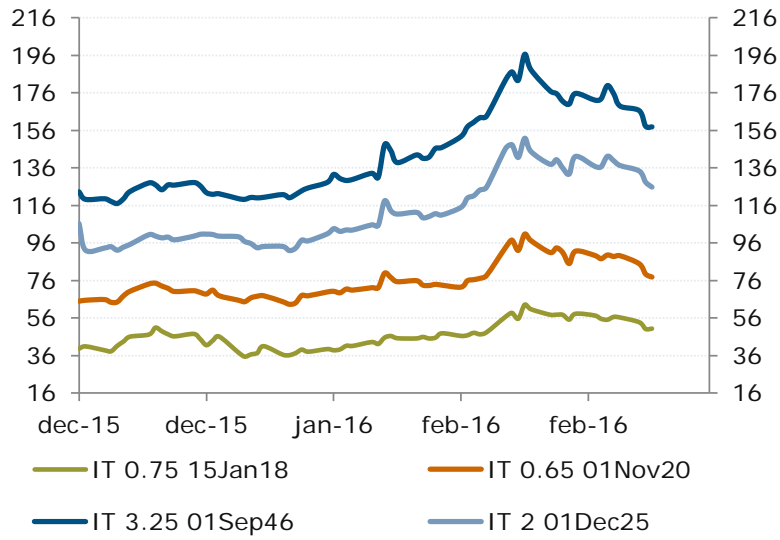
Rating	Baa2/BBB-/BBB+
Moody's / S&P / Fitch	

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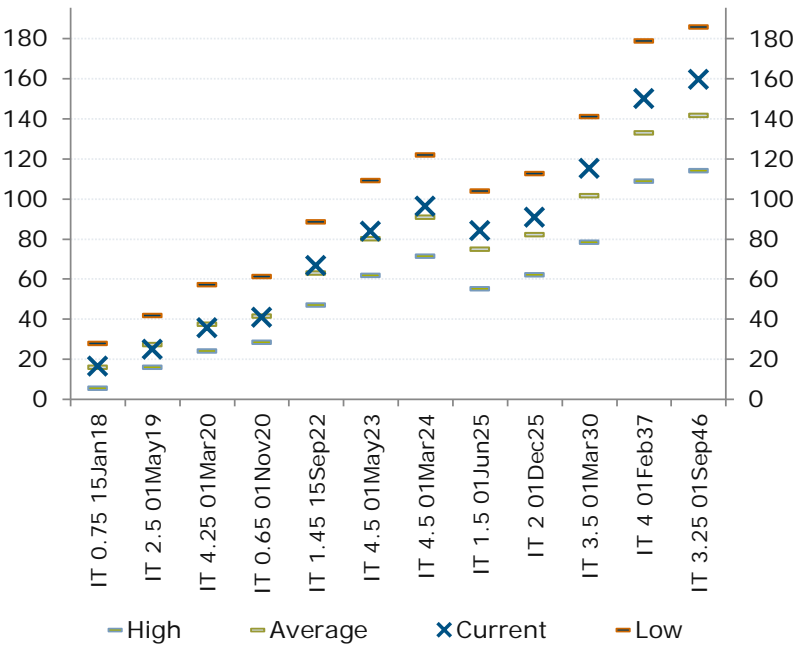
Italy

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
0.750	15 jan 18	15.46B	-0.040	50.0	46.7	0.54	-50.8	16.3	16.0	0.08
2.500	01 maj 19	18.01B	0.071	58.0	58.3	-0.05	-0.7	24.9	27.0	-0.39
4.250	01 mar 20	24.01B	0.208	67.0	66.6	0.05	-1.7	35.5	37.4	-0.30
0.650	01 nov 20	14.02B	0.373	77.5	76.2	0.15	-0.4	40.7	41.3	-0.08
1.450	15 sep 22	17.03B	0.829	106.9	100.8	0.50	-0.9	66.6	62.8	0.36
4.500	01 maj 23	18.02B	0.944	111.4	105.5	0.47	-1.0	83.7	80.1	0.32
4.500	01 mar 24	23.71B	1.149	120.9	113.4	0.52	-0.5	96.2	90.6	0.43
1.500	01 jun 25	19.99B	1.342	122.7	110.5	0.76	0.3	84.0	74.6	0.71
2.000	01 dec 25	17.01B	1.431	125.4	113.9	0.70	0.6	90.6	82.1	0.62
3.500	01 mar 30	20.01B	1.875	131.4	117.3	0.72	-3.4	115.0	101.5	0.77
4.000	01 feb 37	26.01B	2.338	143.1	131.8	0.58	-0.4	149.9	133.0	0.83
3.250	01 sep 46	13.24B	2.598	157.6	145.0	0.60	-0.1	159.5	141.5	0.87

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

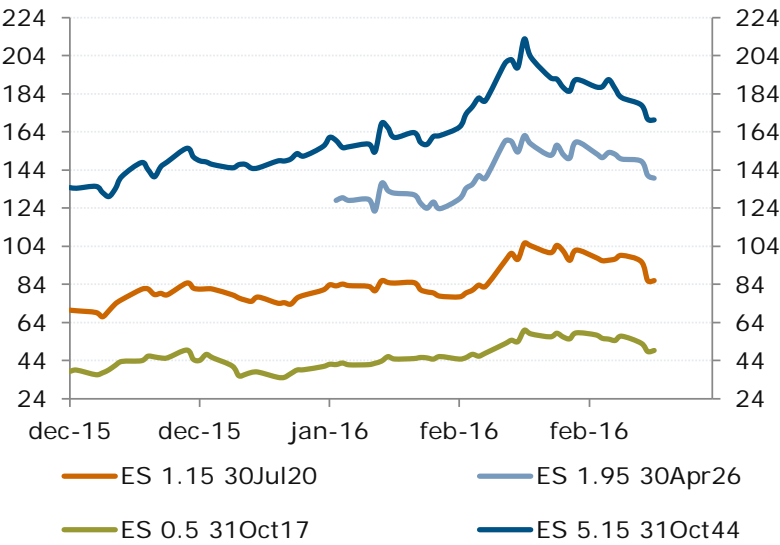
Rating	Baa2/BBB/BBB+
Moody's / S&P / Fitch	

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

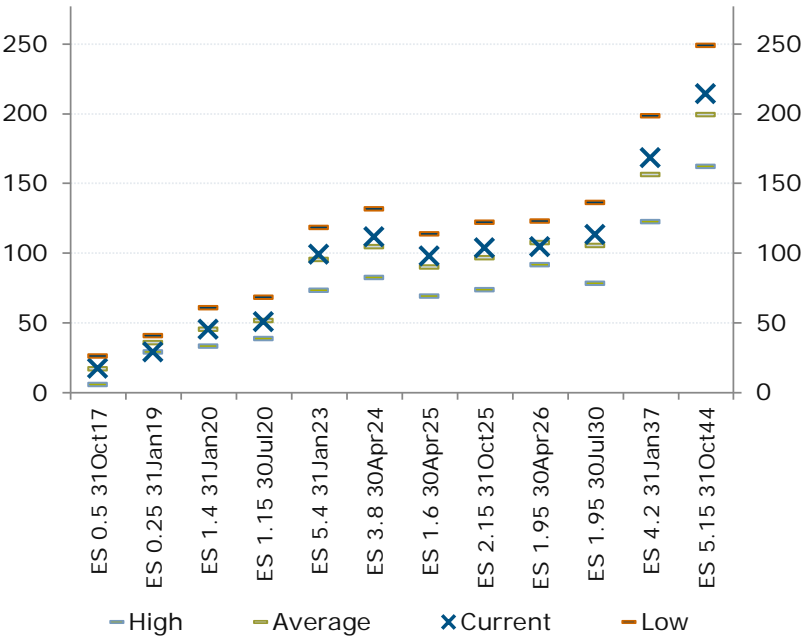
Spain

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
0.500	31 okt 17	16.99B	-0.031	49.6	46.7	0.52	-46.4	17.4	16.7	0.16
0.250	31 jan 19	4.86B	0.119	64.0	71.1	-1.79	-31.1	29.0	35.5	-1.76
1.400	31 jan 20	21.91B	0.335	80.2	78.4	0.22	-5.8	45.0	45.0	-0.01
1.150	30 jul 20	17.02B	0.438	86.3	85.1	0.15	-1.8	50.6	51.2	-0.10
5.400	31 jan 23	21.99B	1.010	121.1	115.1	0.53	-2.6	98.9	95.0	0.36
3.800	30 apr 24	21.99B	1.343	137.9	129.1	0.64	-0.2	111.6	104.5	0.58
1.600	30 apr 25	19.09B	1.467	136.2	126.0	0.71	1.6	97.5	89.8	0.65
2.150	31 okt 25	20.96B	1.542	137.6	128.0	0.65	-5.6	103.6	96.6	0.56
1.950	30 apr 26	12.01B	1.622	140.0	142.0	-0.17	-6.1	104.5	107.2	-0.29
1.950	30 jul 30	11.51B	2.067	148.0	139.2	0.53	-4.9	113.3	105.0	0.60
4.200	31 jan 37	17.02B	2.486	157.8	151.8	0.35	0.4	168.3	156.0	0.67
5.150	31 okt 44	11.23B	2.721	170.5	164.8	0.32	0.1	213.8	199.1	0.70

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

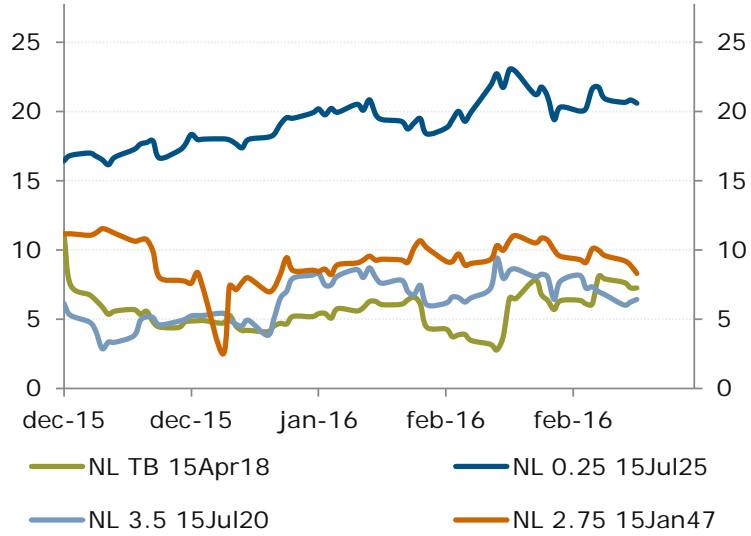
Rating	Aaa/AA+/AAA
Moody's / S&P / Fitch	

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

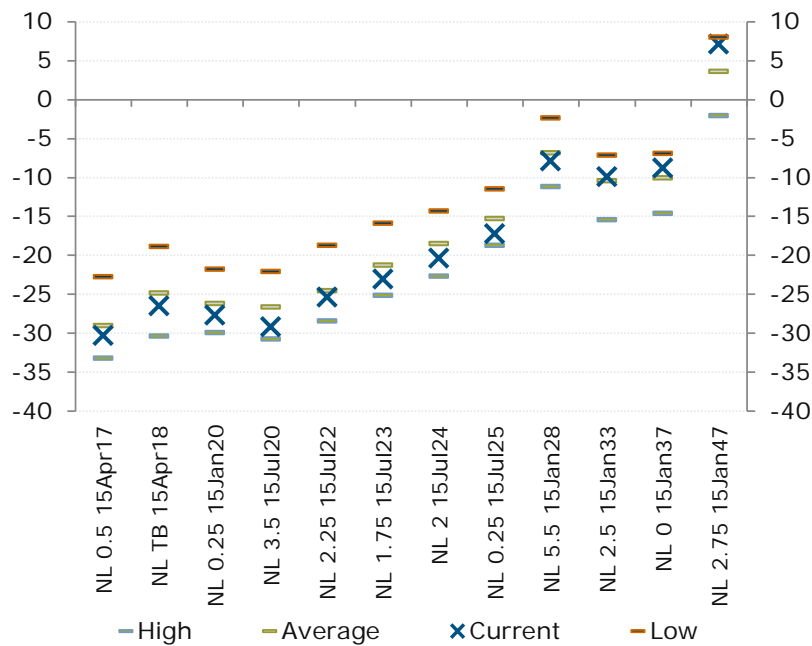
Netherlands

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
0.500	15 apr 17	13.03B	-0.502	-0.8	-0.3	-0.48	19.0	-30.4	-29.1	-0.73
0.000	15 apr 18	15.99B	-0.472	7.3	5.6	1.72	-0.2	-26.5	-24.9	-0.87
0.250	15 jan 20	15.84B	-0.387	8.2	7.8	0.35	-8.5	-27.7	-26.2	-0.79
3.500	15 jul 20	15.02B	-0.364	6.4	6.5	-0.07	0.1	-29.2	-26.7	-1.31
2.250	15 jul 22	15.01B	-0.120	13.7	11.7	1.16	-0.1	-25.4	-24.6	-0.49
1.750	15 jul 23	15.63B	0.025	16.8	15.6	0.69	-0.2	-23.1	-21.3	-1.03
2.000	15 jul 24	15.32B	0.163	16.9	15.9	0.79	0.3	-20.4	-18.5	-1.03
0.250	15 jul 25	15.01B	0.336	20.6	19.4	0.85	0.4	-17.3	-15.4	-1.25
5.500	15 jan 28	13.02B	0.526	13.8	11.3	0.90	-0.1	-7.9	-6.9	-0.60
2.500	15 jan 33	12.01B	0.837	9.9	9.8	0.04	-0.3	-10.0	-10.5	0.38
0.000	15 jan 37	0.0B	1.044	13.8	15.9	-1.64	-0.9	-8.9	-10.1	1.02
2.750	15 jan 47	10.99B	1.107	8.3	9.3	-0.98	0.1	7.1	3.6	1.81

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

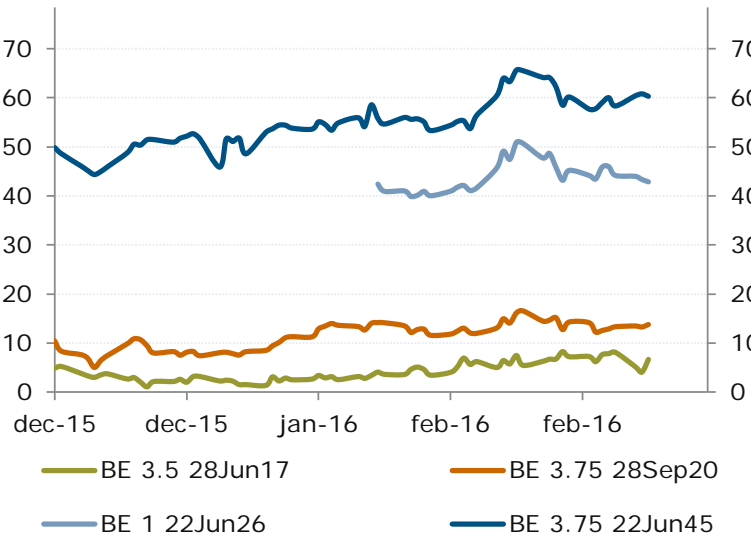
Rating	Aa3/AA/AA
Moody's / S&P / Fitch	

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

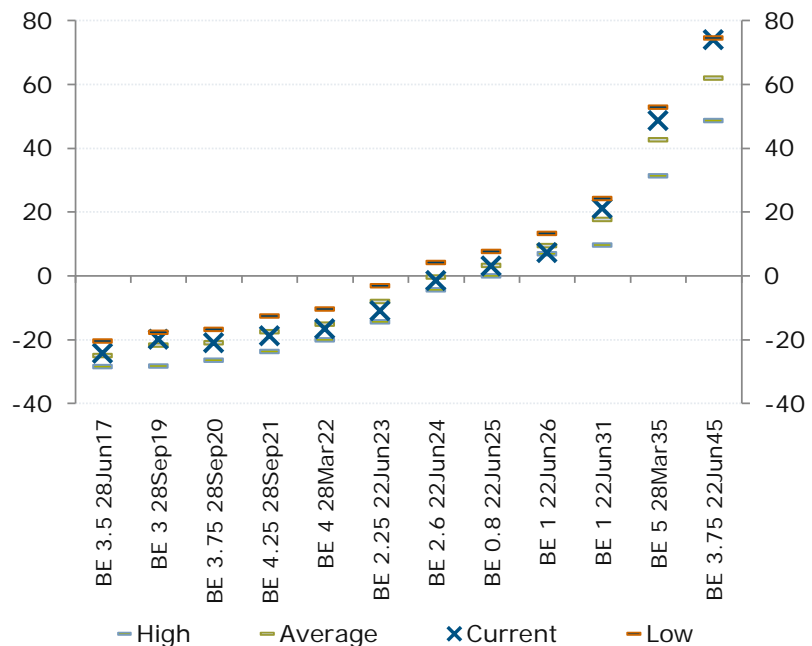
Belgium

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
3.500	28 jun 17	13.34B	-0.439	6.7	4.3	1.40	8.2	-24.2	-25.1	0.59
3.000	28 sep 19	12.01B	-0.338	14.8	11.2	1.68	-2.9	-19.8	-21.8	0.96
3.750	28 sep 20	19.01B	-0.272	13.8	11.6	0.93	1.0	-21.0	-20.9	-0.07
4.250	28 sep 21	15.98B	-0.158	17.1	15.8	0.57	1.2	-18.7	-17.4	-0.48
4.000	28 mar 22	14.02B	-0.086	20.3	18.7	0.85	1.3	-16.7	-15.1	-0.66
2.250	22 jun 23	13.99B	0.126	27.7	27.6	0.03	2.4	-11.0	-8.1	-1.42
2.600	22 jun 24	15.85B	0.326	34.1	32.4	0.61	0.7	-1.4	-0.3	-0.56
0.800	22 jun 25	16.02B	0.526	40.3	37.6	0.92	0.3	3.1	3.3	-0.13
1.000	22 jun 26	6.24B	0.665	42.9	44.0	-0.44	-0.1	7.3	9.4	-1.40
1.000	22 jun 31	4.52B	1.170	52.7	48.8	0.97	-0.1	21.1	17.7	1.20
5.000	28 mar 35	19.01B	1.275	42.5	40.3	0.58	0.3	48.6	42.6	1.44
3.750	22 jun 45	8.01B	1.621	60.3	55.1	1.29	0.2	74.1	61.9	2.02

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

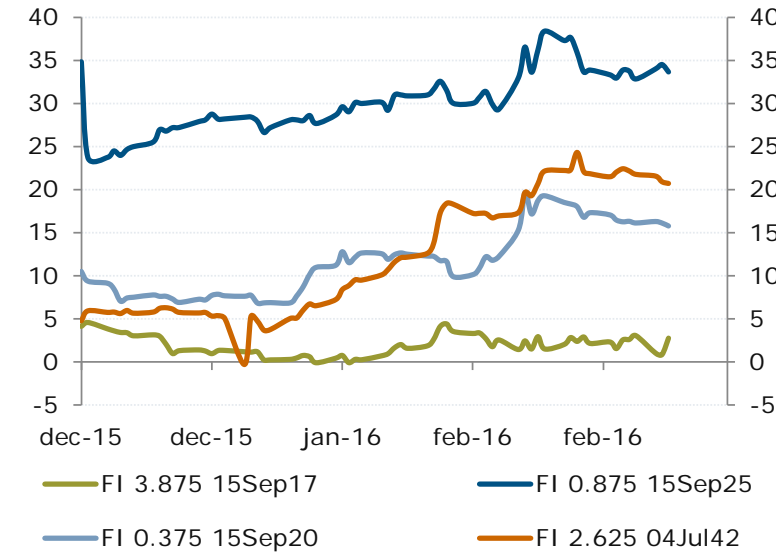
Rating	Aaa/AA+/AAA
Moody's / S&P / Fitch	

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

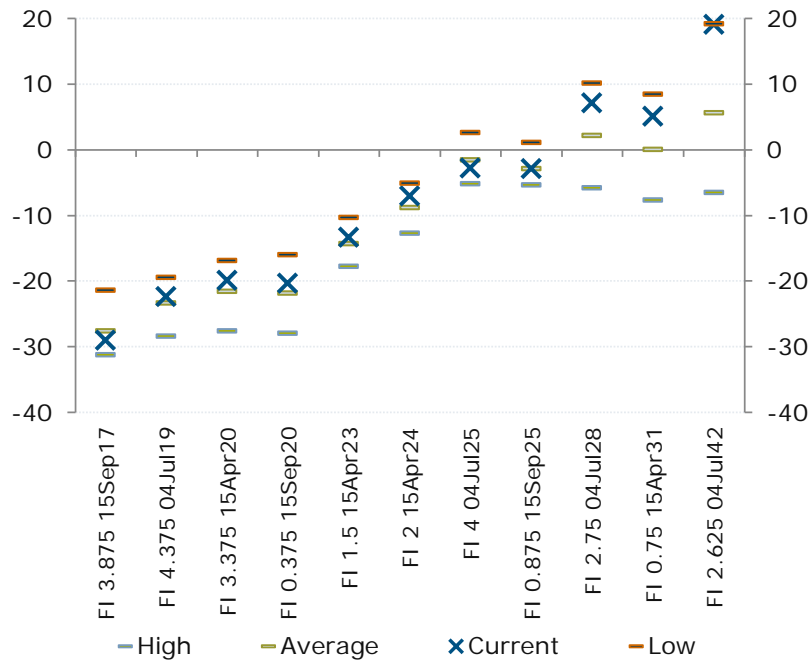
Finland

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
3.875	15 sep 17	6.0B	-0.492	2.8	2.0	0.76	2.0	-29.0	-27.6	-0.62
4.375	04 jul 19	5.0B	-0.379	12.0	9.2	1.62	0.3	-22.3	-23.4	0.67
3.375	15 apr 20	6.5B	-0.299	15.2	11.4	1.29	0.3	-19.9	-21.6	0.77
0.375	15 sep 20	6.03B	-0.256	15.8	12.0	1.14	-0.2	-20.3	-21.8	0.66
1.500	15 apr 23	5.0B	0.093	26.8	23.0	1.29	0.6	-13.3	-14.3	0.62
2.000	15 apr 24	5.0B	0.263	30.5	26.1	1.29	-0.2	-7.0	-8.8	1.01
4.000	04 jul 25	6.03B	0.391	26.4	24.3	0.69	-0.2	-2.7	-1.6	-0.60
0.875	15 sep 25	4.03B	0.488	33.7	30.4	1.12	0.3	-2.8	-2.9	0.04
2.750	04 jul 28	5.0B	0.765	33.5	26.0	1.12	0.6	7.1	2.2	1.12
0.750	15 apr 31	3.5B	1.001	37.0	30.8	0.98	-0.1	5.1	0.0	1.18
2.625	04 jul 42	4.03B	1.215	20.7	12.9	1.21	0.2	19.1	5.6	1.95

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

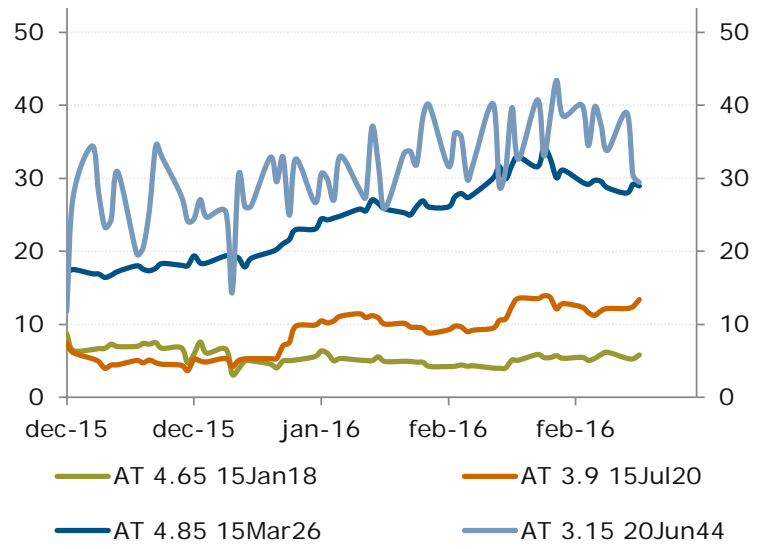
Rating	Aaa/AA+/AA+
Moody's / S&P / Fitch	

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

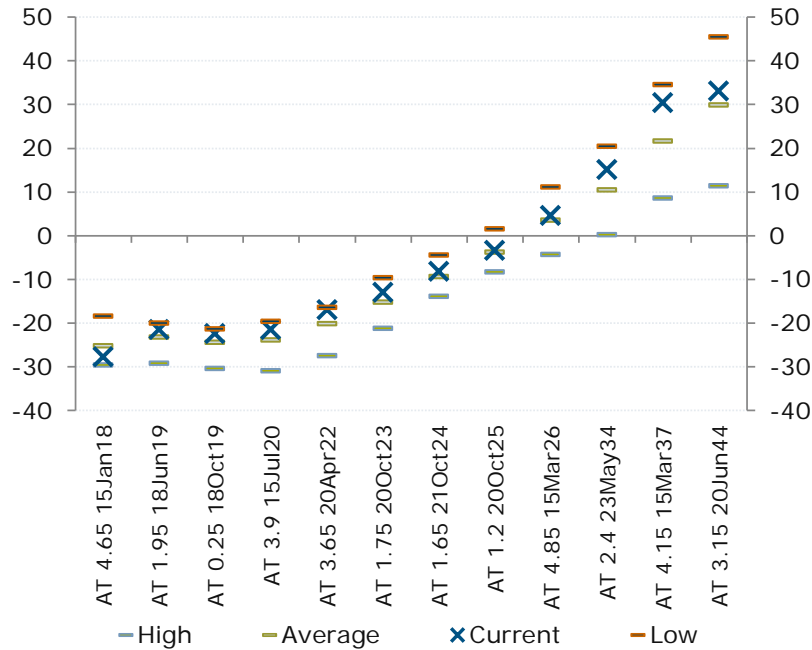
Austria

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
4.650	15 jan 18	12.06B	-0.482	5.8	5.4	0.48	-2.0	-27.8	-25.2	-1.10
1.950	18 jun 19	7.21B	-0.370	13.1	9.6	1.46	0.6	-21.5	-23.2	0.88
0.250	18 okt 19	7.95B	-0.354	12.9	9.2	1.49	-0.3	-22.5	-24.4	0.93
3.900	15 jul 20	13.01B	-0.295	13.4	9.0	1.60	1.3	-21.5	-23.9	1.11
3.650	20 apr 22	8.71B	-0.079	20.3	14.5	2.13	0.8	-16.9	-20.2	1.35
1.750	20 okt 23	9.99B	0.153	26.1	21.3	1.43	0.6	-13.0	-15.2	1.07
1.650	21 okt 24	10.35B	0.317	28.4	24.3	1.32	0.2	-8.2	-9.4	0.88
1.200	20 okt 25	9.28B	0.482	31.9	28.2	1.16	0.3	-3.4	-3.8	0.27
4.850	15 mar 26	8.01B	0.500	28.9	24.6	0.96	0.4	4.6	3.5	0.36
2.400	23 maj 34	5.19B	1.114	29.8	27.2	0.47	-1.0	15.1	10.4	0.99
4.150	15 mar 37	12.22B	1.198	28.7	25.2	0.68	0.9	30.4	21.6	1.50
3.150	20 jun 44	6.72B	1.309	29.4	31.5	-0.45	0.2	33.0	29.9	0.57

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

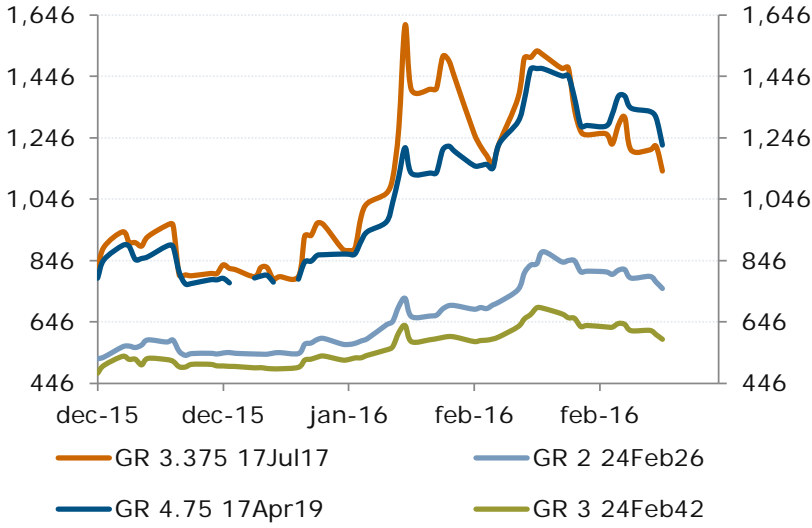
Source: European Commission, Winter 2015 forecast

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

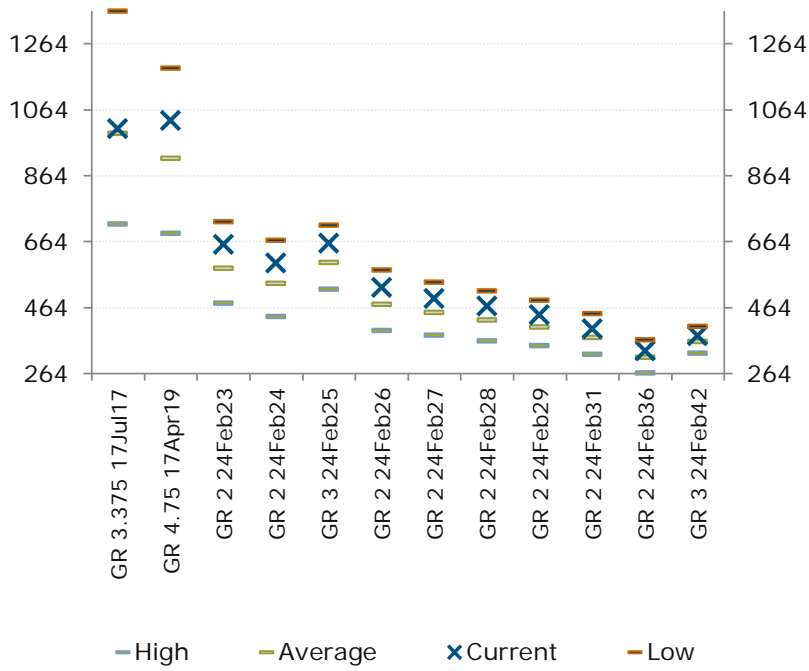
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
3.375	17 jul 17	2.02B	10.867	1,137.6	1,129.5	0.04	-415.0	1,006.4	991.8	0.08
4.750	17 apr 19	4.02B	11.711	1,222.3	1,073.5	0.68	-230.6	1,030.2	915.7	0.72
2.000	24 feb 23	1.04B	8.795	898.9	786.3	0.90	-26.0	654.7	582.7	0.95
2.000	24 feb 24	1.25B	8.292	835.5	738.2	0.84	-51.7	599.0	537.4	0.90
3.000	24 feb 25	1.84B	9.344	926.2	828.6	0.88	-55.8	657.9	600.4	0.94
2.000	24 feb 26	1.37B	7.751	754.6	667.7	0.89	-56.5	524.3	472.5	0.94
2.000	24 feb 27	1.21B	7.476	717.3	645.4	0.82	-65.5	491.3	448.6	0.89
2.000	24 feb 28	1.84B	7.332	693.4	621.8	0.84	-52.6	467.3	425.7	0.91
2.000	24 feb 29	1.48B	7.115	663.1	600.5	0.81	-50.1	441.7	405.1	0.89
2.000	24 feb 31	1.29B	6.736	611.3	566.6	0.66	-44.2	399.8	372.0	0.79
2.000	24 feb 36	1.33B	6.067	518.9	494.5	0.44	-33.9	332.4	312.6	0.70
3.000	24 feb 42	1.05B	6.896	589.0	571.9	0.32	-50.9	378.3	361.3	0.70

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

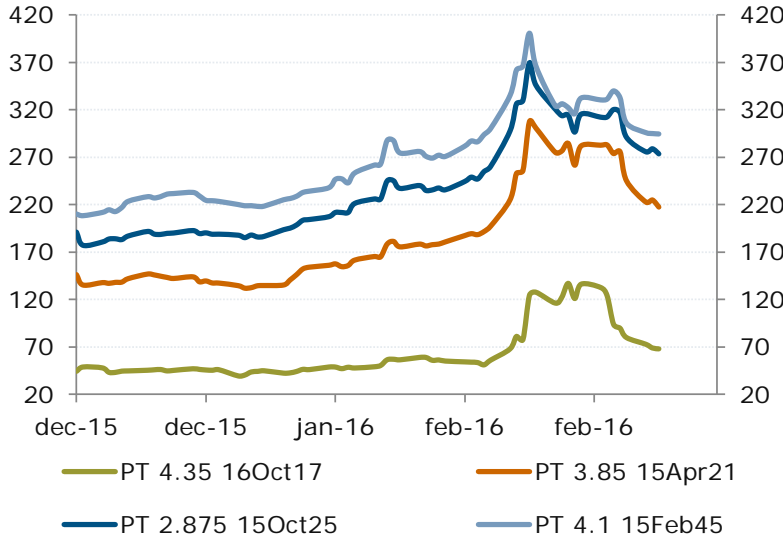
Source: European Commission, Winter 2015 forecast

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

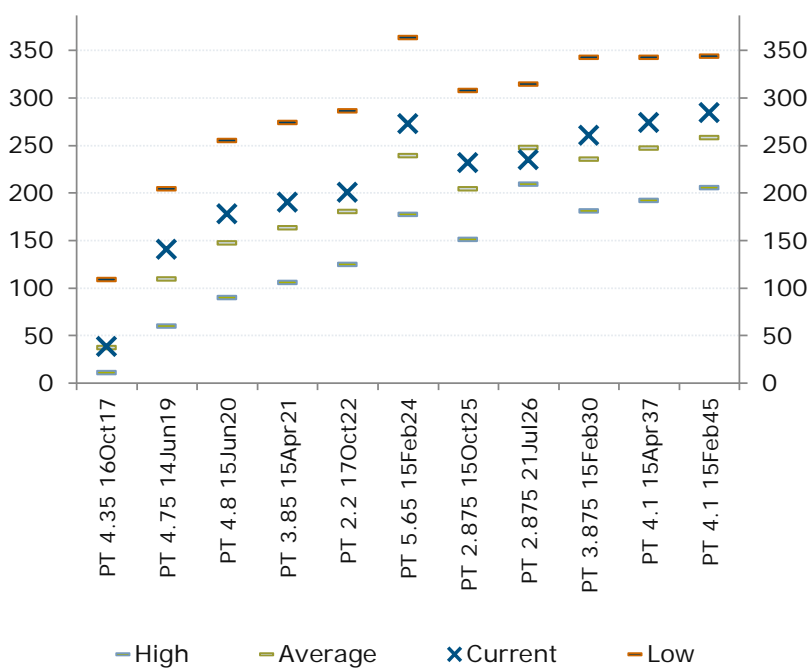
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
4.350	16 okt 17	8.99B	0.152	67.6	64.5	0.14	6.6	38.6	37.3	0.06
4.750	14 jun 19	10.99B	1.153	165.5	133.9	0.80	1.5	140.7	109.3	0.79
4.800	15 jun 20	10.99B	1.564	200.0	169.0	0.69	-7.2	177.6	147.1	0.68
3.850	15 apr 21	9.55B	1.808	217.1	188.8	0.62	-4.6	190.3	163.0	0.62
2.200	17 okt 22	3.0B	2.219	245.0	222.5	0.50	-1.2	200.5	180.5	0.51
5.650	15 feb 24	12.02B	2.771	283.7	249.4	0.72	1.7	273.0	239.2	0.74
2.875	15 okt 25	10.52B	2.893	273.2	240.8	0.72	2.4	232.0	204.1	0.74
2.875	21 jul 26	4.0B	3.015	277.1	293.7	-0.48	0.2	234.6	247.6	-0.48
3.875	15 feb 30	4.05B	3.437	287.8	261.1	0.58	-1.2	260.5	235.6	0.65
4.100	15 apr 37	8.02B	3.778	286.5	262.7	0.55	1.2	273.7	246.8	0.74
4.100	15 feb 45	2.5B	3.959	294.2	271.6	0.55	0.0	284.2	258.3	0.79

Spreads against the German curve, bp



Asset swap term structure, bp





	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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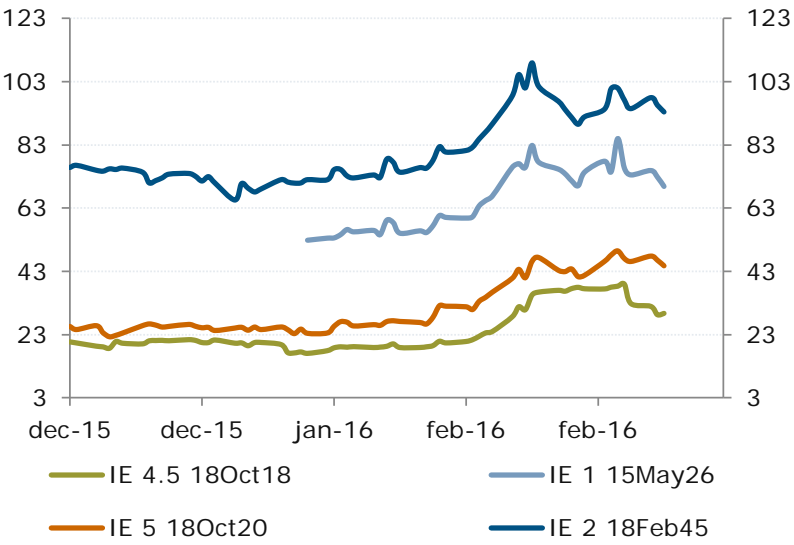
Moody's / S&P / Fitch

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

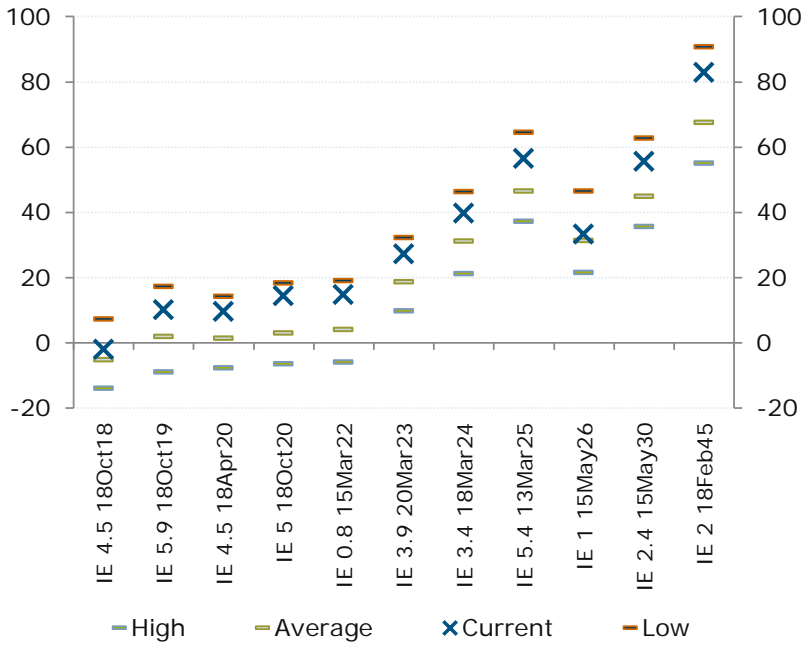
Ireland

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
4.500	18 okt 18	9.58B	-0.229	30.0	24.7	0.84	1.0	-2.0	-5.2	0.58
5.900	18 okt 19	6.58B	-0.074	40.9	31.9	1.24	-2.3	10.1	2.0	1.15
4.500	18 apr 20	11.77B	-0.033	41.7	32.0	1.38	-1.3	9.5	1.3	1.34
5.000	18 okt 20	8.99B	0.045	45.0	32.4	1.56	-1.0	14.4	2.9	1.60
0.800	15 mar 22	4.25B	0.252	54.5	41.0	1.69	-0.5	14.7	4.1	1.64
3.900	20 mar 23	5.95B	0.420	60.5	49.7	1.57	1.2	27.2	18.6	1.58
3.400	18 mar 24	8.01B	0.661	71.4	60.9	1.32	-0.2	39.7	31.1	1.44
5.400	13 mar 25	11.35B	0.836	74.7	63.5	1.32	0.7	56.4	46.5	1.38
1.000	15 maj 26	4.0B	0.928	70.1	66.2	0.43	-7.7	33.3	31.3	0.30
2.400	15 maj 30	7.78B	1.372	79.8	68.2	1.22	0.4	55.5	44.9	1.42
2.000	18 feb 45	5.95B	1.954	93.7	82.1	1.15	-4.1	82.9	67.6	1.47

Spreads against the German curve, bp



Asset swap term structure, bp



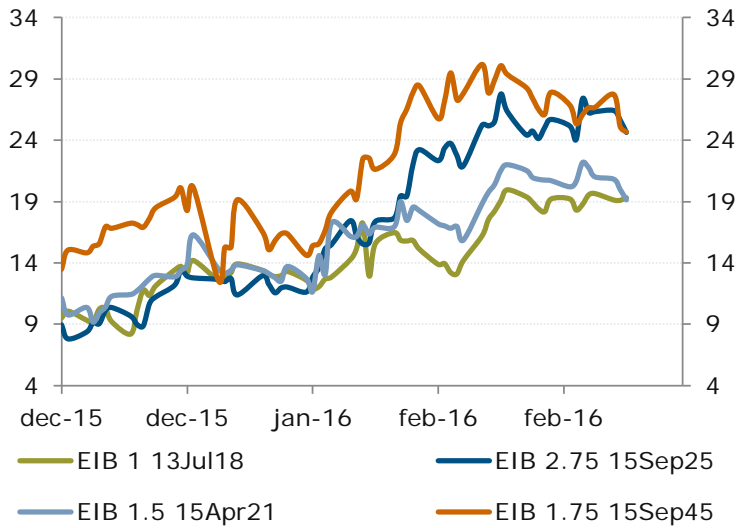


Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

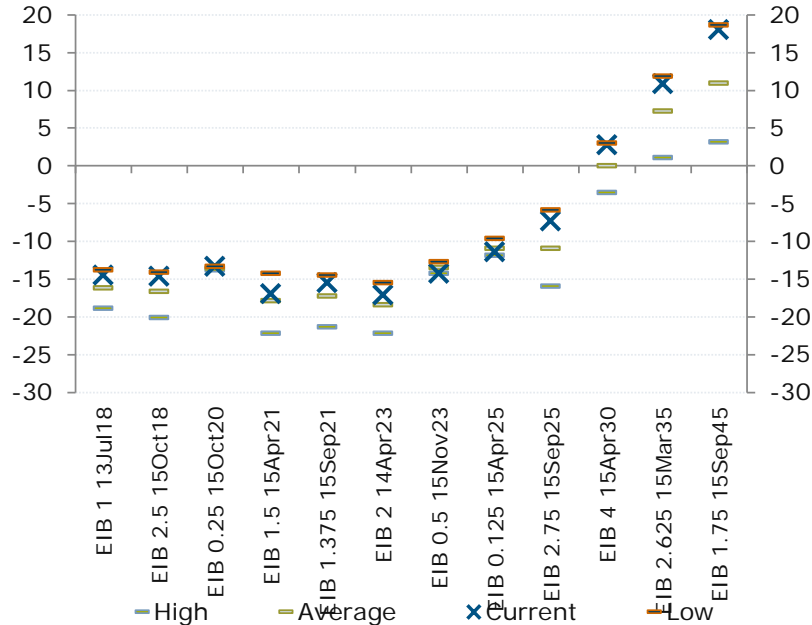
European Investment Bank (EIB)

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
1.000	13 jul 18	5.0B	-0.345	19.2	14.6	1.63	0.3	-14.5	-16.2	1.18
2.500	15 okt 18	5.0B	-0.344	18.5	14.3	1.67	0.5	-14.7	-16.6	1.19
0.250	15 okt 20	4.0B	-0.178	22.8	22.9	-0.50	-0.3	-13.4	-13.6	0.50
1.500	15 apr 21	5.0B	-0.173	19.1	16.0	0.90	-0.8	-17.0	-17.9	0.42
1.375	15 sep 21	4.35B	-0.112	21.9	17.8	1.23	-1.0	-15.5	-17.3	0.75
2.000	14 apr 23	5.0B	0.049	22.5	18.2	1.10	-0.3	-17.1	-18.5	0.60
0.500	15 nov 23	1.5B	0.168	26.7	28.0	-0.50	-2.8	-14.2	-13.5	-0.50
0.125	15 apr 25	3.0B	0.373	27.3	28.3	-0.92	-0.2	-11.4	-11.0	-0.94
2.750	15 sep 25	5.75B	0.396	24.5	17.7	1.14	-0.4	-7.3	-11.0	0.98
4.000	15 apr 30	6.5B	0.787	21.7	17.8	0.90	-0.2	2.7	0.0	1.27
2.625	15 mar 35	1.7B	1.078	23.0	21.8	0.29	-1.4	10.9	7.2	1.11
1.750	15 sep 45	1.3B	1.265	24.6	21.7	0.56	-0.4	18.0	10.9	1.38

Spreads against the German curve, bp



Asset swap term structure, bp

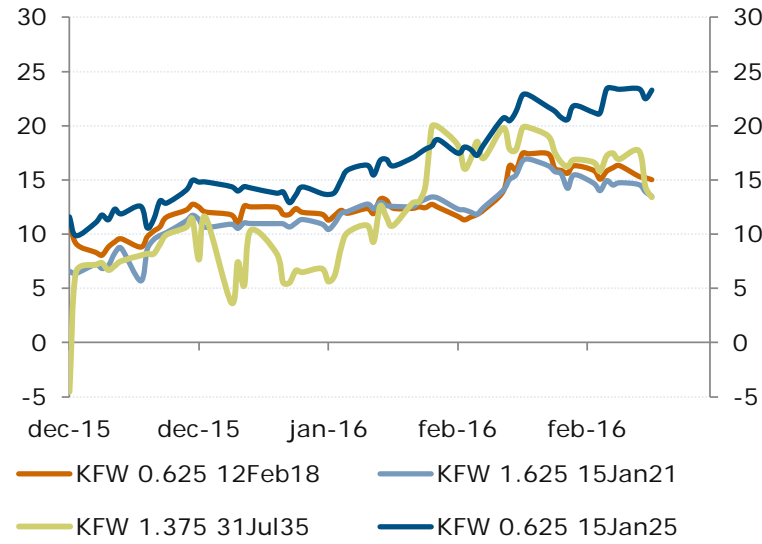


Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

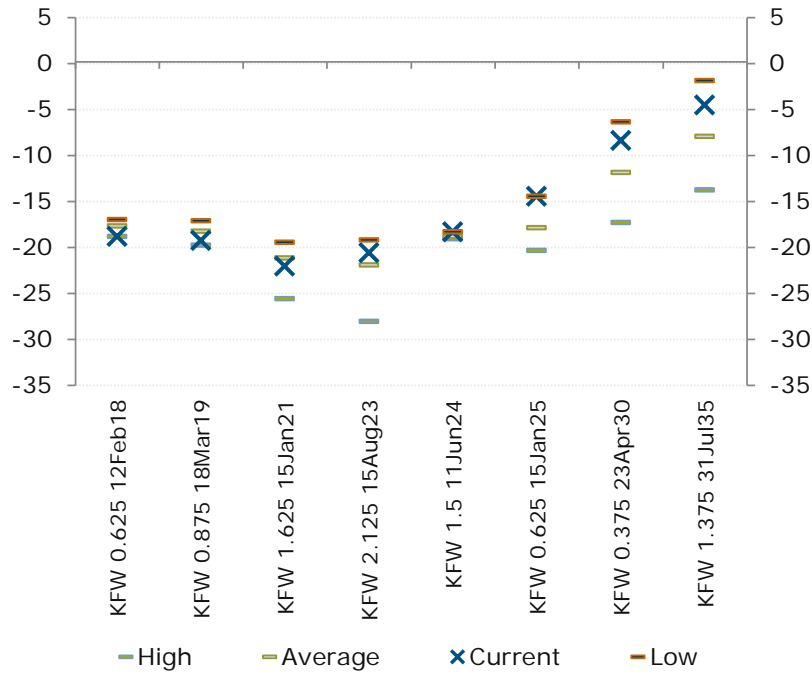
Kreditanstalt für Wiederaufbau (KfW)

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	02-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	02-mar	60D Avg.	Z-score
0.625	12 feb 18	2.0B	-0.395	15.0	12.8	1.14	-4.6	-19.0	-17.9	-2.83
0.875	18 mar 19	5.0B	-0.365	15.1	14.1	0.62	-1.4	-19.5	-18.5	-1.57
1.625	15 jan 21	5.0B	-0.249	13.5	12.1	0.67	-0.4	-22.3	-21.4	-0.87
2.125	15 aug 23	3.0B	0.053	18.4	14.3	1.18	-0.3	-20.8	-22.1	0.72
1.500	11 jun 24	3.0B	0.178	19.8	20.5	-0.82	-0.1	-18.5	-19.1	3.35
0.625	15 jan 25	3.0B	0.300	23.3	16.9	1.86	1.4	-14.7	-18.1	2.77
0.375	23 apr 30	2.0B	0.818	24.8	19.4	0.89	-2.1	-8.6	-12.1	1.00
1.375	31 jul 35	1.0B	0.994	13.4	12.2	0.25	-1.7	-4.7	-8.2	0.95

Spreads against the German curve, bp



Asset swap term structure, bp



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