

Euro Rates Update

Nordea Research, 18 April 2016

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US Treasury Yields				
	2Y	5Y	10Y	30Y
	0.74	1.21	1.76	2.57
Δ 1D	-1.7	-1.8	-2.6	-3.9
Δ 1W	2.6	4.4	2.7	0.6

German Benchmark Yields				
	2Y	5Y	10Y	30Y
	-0.51	-0.38	0.13	0.81
Δ 1D	-0.2	-1.7	-2.2	-2.9
Δ 1W	-0.3	0.6	4.0	8.5

German Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-12.9	-51.1	-64.0	-67.4
Δ 1D	-1.5	-0.5	-2.0	-0.7
Δ 1W	0.8	3.5	4.3	4.5

EUR Swap Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-16.3	-52.2	-68.5	-50.5
Δ 1D	-1.0	-0.6	-1.6	0.1
Δ 1W	1.0	1.9	2.9	3.0

German Asset Swap Levels				
	2Y	5Y	10Y	30Y
	-34.2	-37.4	-36.7	-19.1
Δ 1D	0.2	-0.3	-0.2	-1.1
Δ 1W	-0.3	-0.5	1.2	3.0

10Y Benchmark Yields				
	Yield	Δ 1D	Spread	Δ 1D
GER	0.132	-2.2	-	-
FRA	0.473	-2.6	31.5	-0.4
ITA	1.344	-1.6	123.9	0.6
ESP	1.507	0.3	135.4	2.5
BEL	0.517	-2.9	35.4	-0.7
HOL	0.351	-2.6	18.4	-0.4
AUT	0.333	-2.2	24.2	-0.1
GRE	8.172	-26.1	803.9	-23.9
POR	2.982	-9.1	289.2	-7.0
FIN	0.435	-1.8	28.5	0.4
IRL	0.820	-2.4	66.5	-0.2

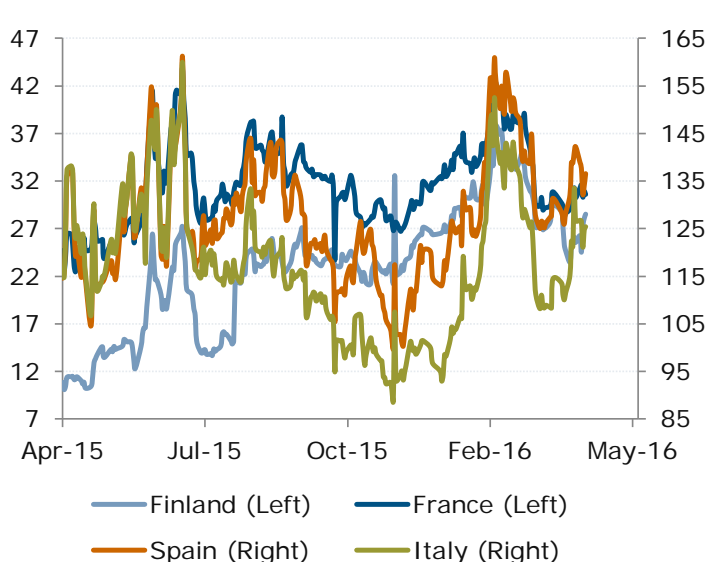
Spread = Maturity interpolated spread to German government par yield curve

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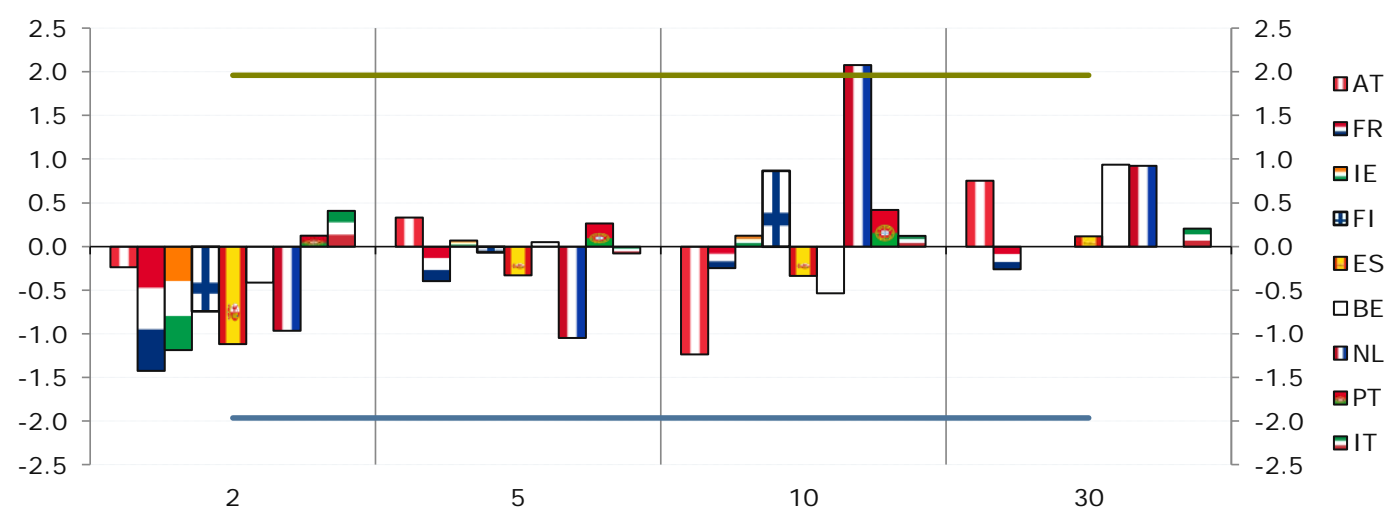
German & US 10-year benchmark yields, %



10 year spreads against Germany, bp



Z-scores of benchmark vs. Germany



Upcoming Issuance (source: Bloomberg)							
Date		Country		Coupon		Maturity	Amount (EURbn)
18 Apr		SO					
18 Apr		LN		0.60%		2019	
20 Apr		GE					4.00
21 Apr		SP					
21 Apr		FR					

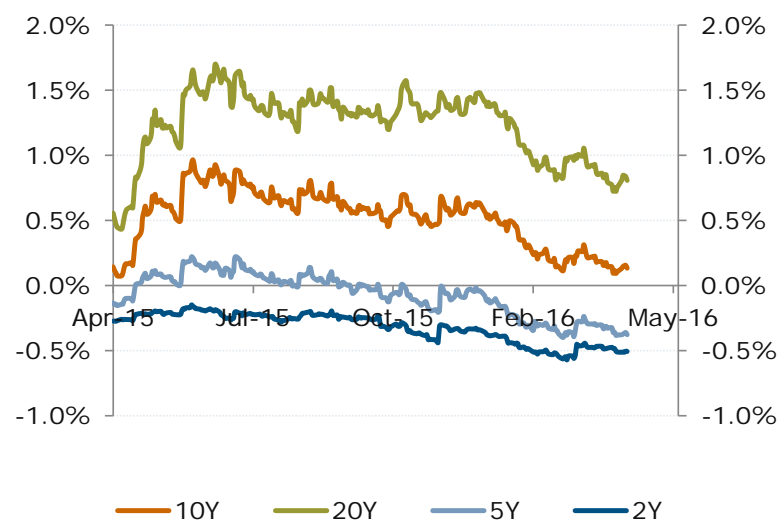
All bond quotes are taken at 16:15 CET.

Bond Yields & Curves

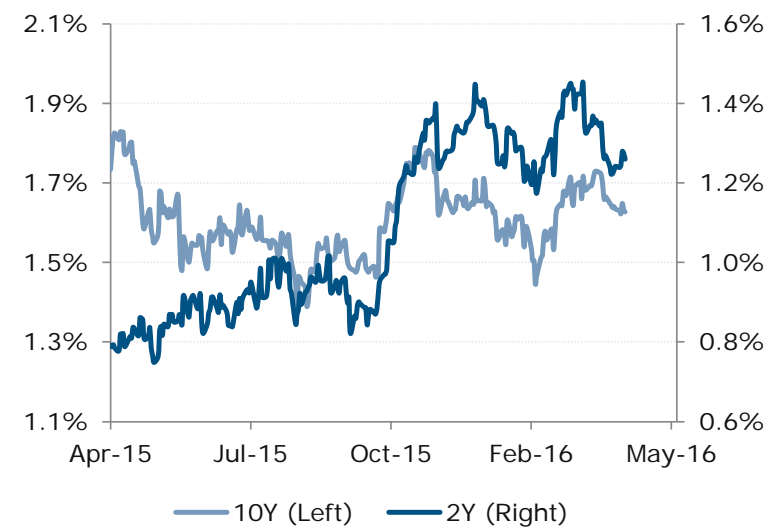
Yield Levels

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

German benchmark bond yields, %



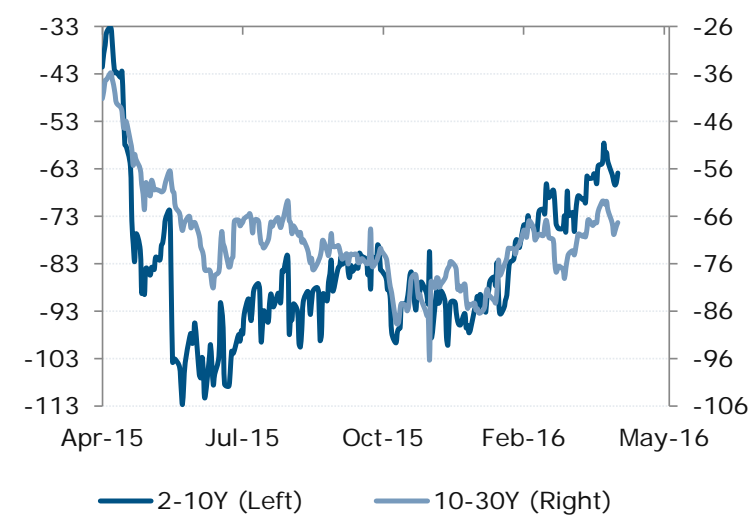
USA-Germany spreads, annualized yields, %



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

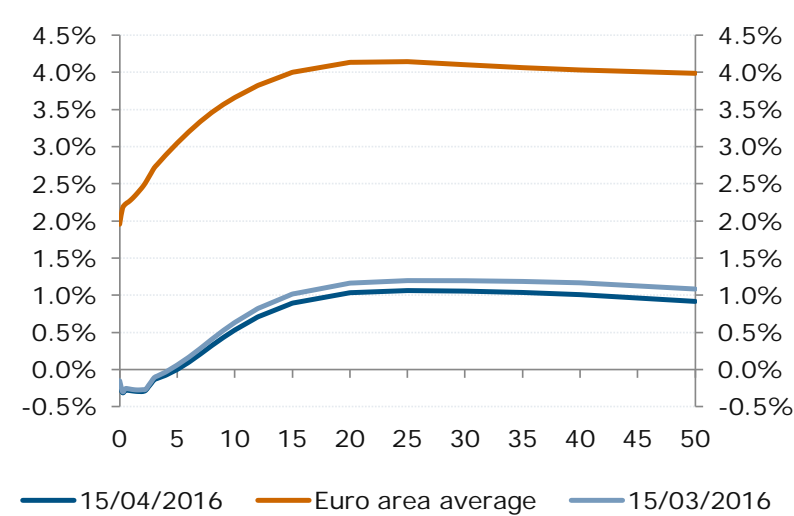
EUR swap rates and implied forwards, %



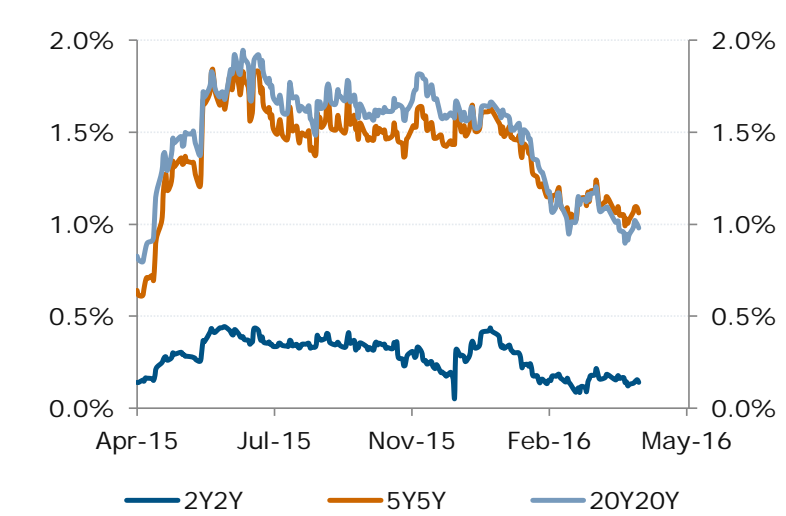
EUR-USD spreads and implied forwards, %



EUR swap curve shape vs. historical



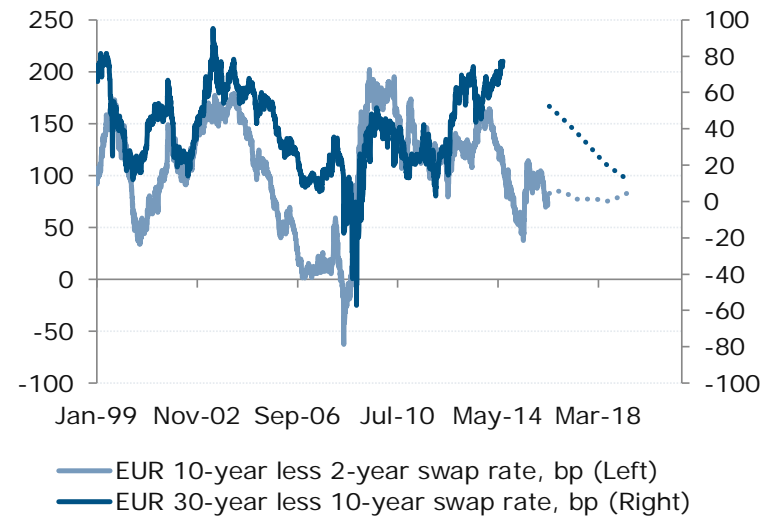
Historical forward rates, %



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)

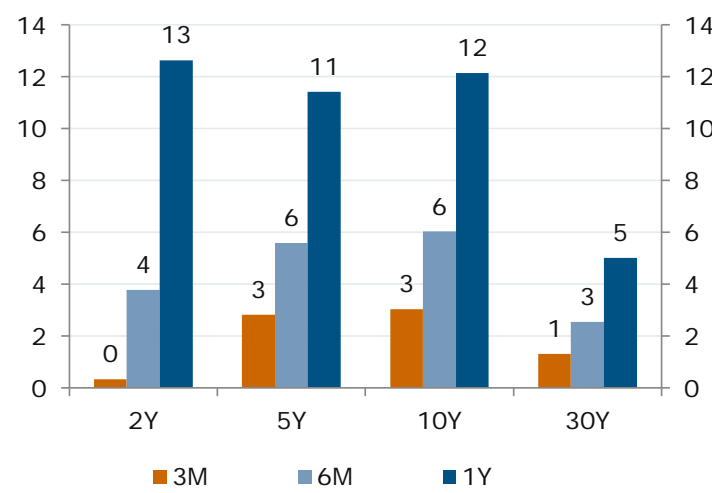


Carry

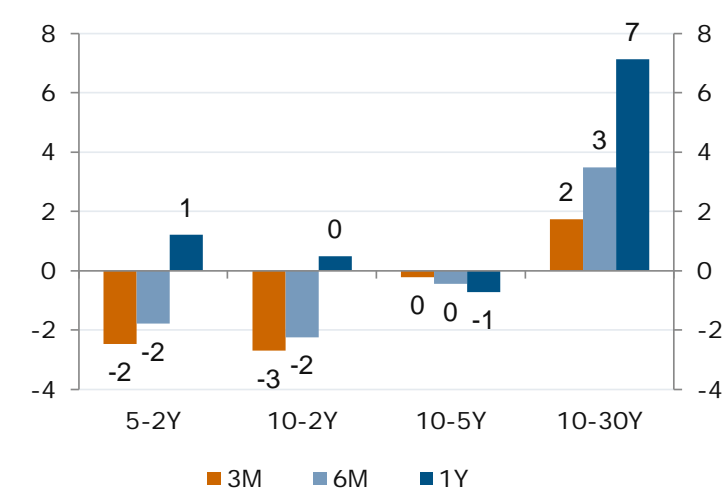
The carry on the given horizon illustrates how much the spot swap rate may rise for a receiver swap position in a forward-starting swap to result in zero profit.

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



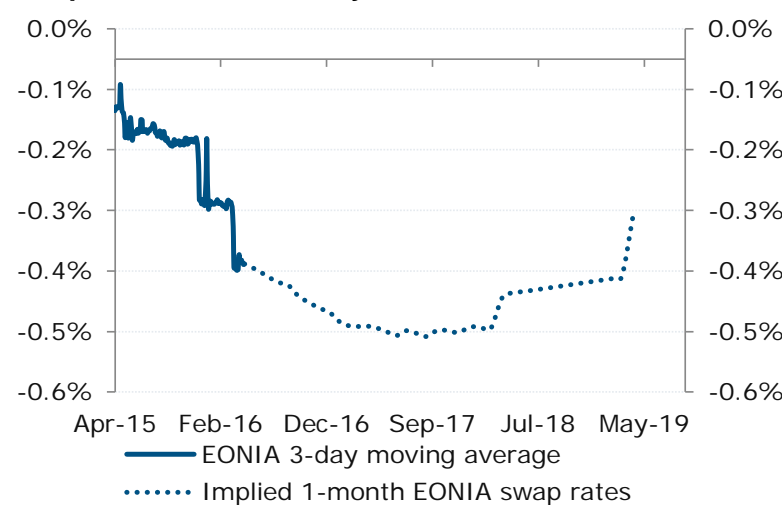
Yield buffers for duration-neutral steepeners, bp



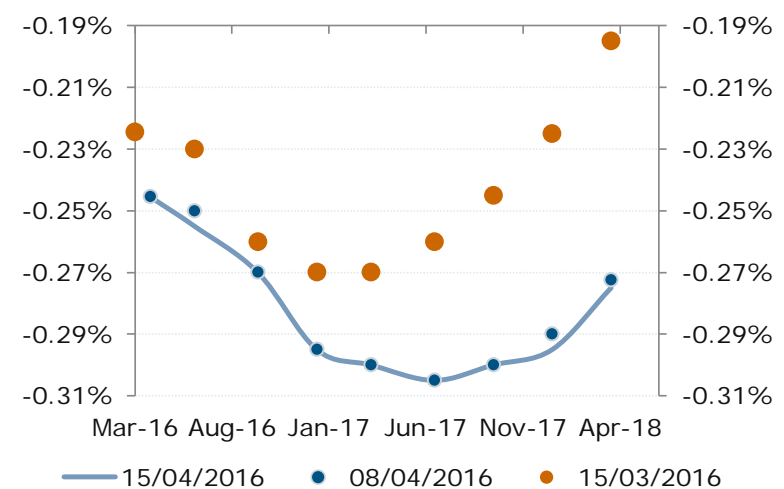
Money Market Rates

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

Expectations and history for EONIA



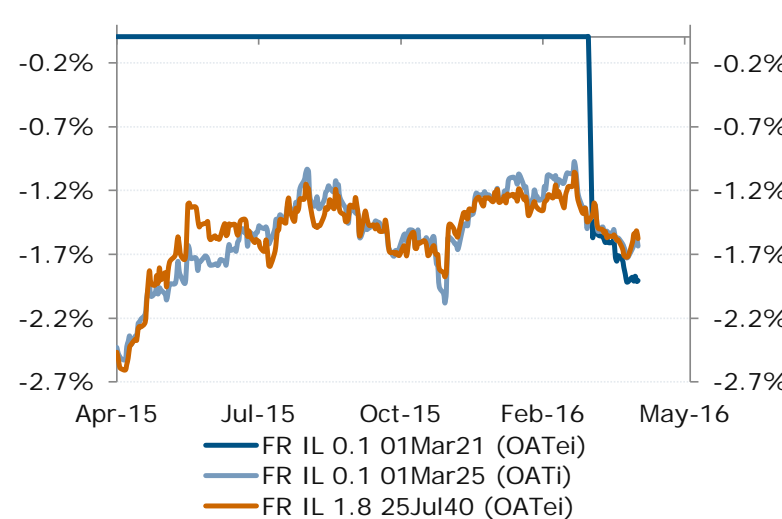
Euribor futures curve, now, 1 wk & 1M ago



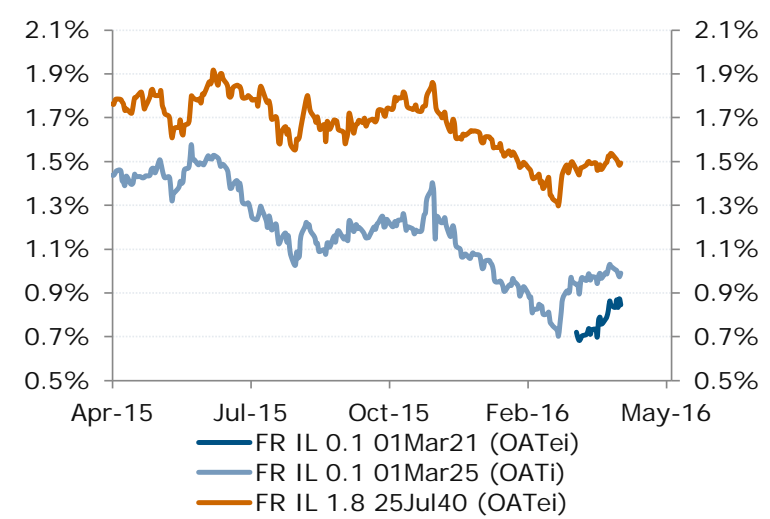
Inflation-linked Bonds

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

Real yields, %



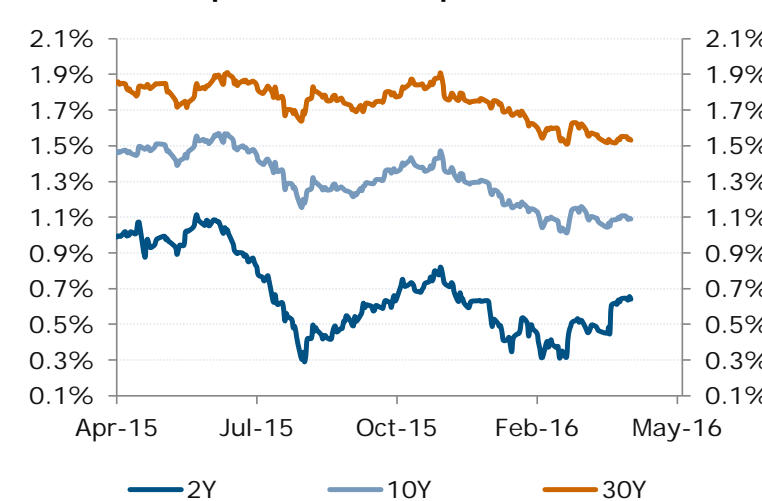
Break-even inflation history, %



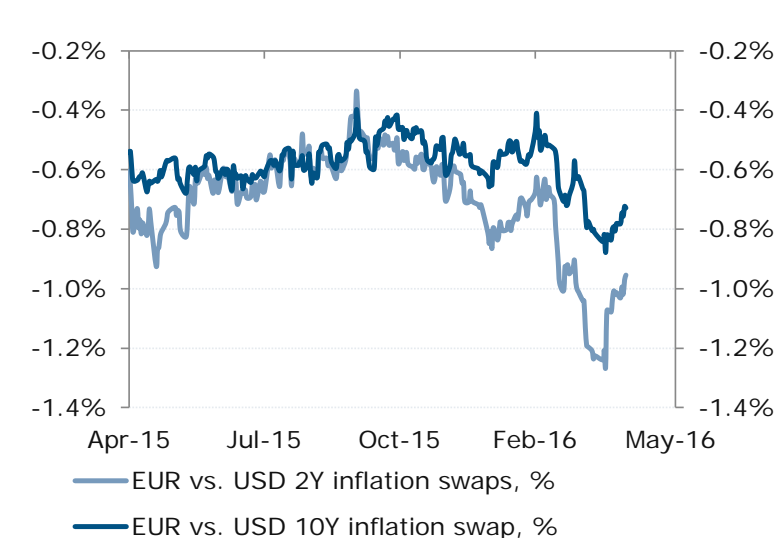
Inflation Swaps

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

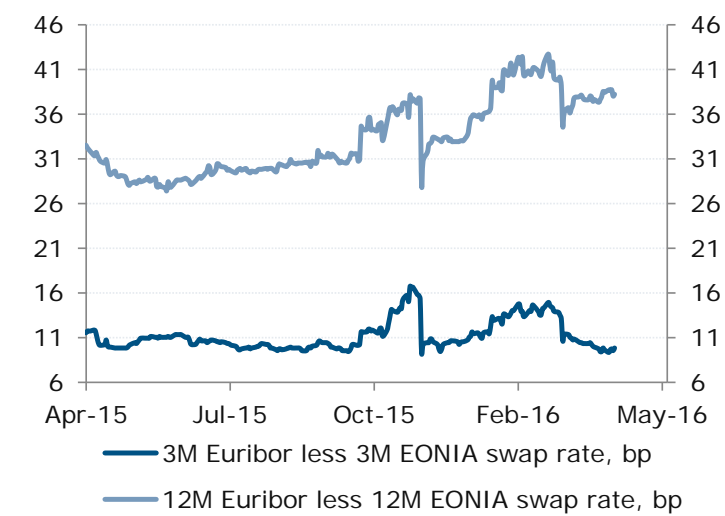
Credit default swap indices illustrate the annual cost of buying protection against a credit event of a company. iTraxx® Europe is comprised of the 125 most liquid CDS contracts referencing European investment grade credits, iTraxx® Crossover of 50 sub-investment grade credits.

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



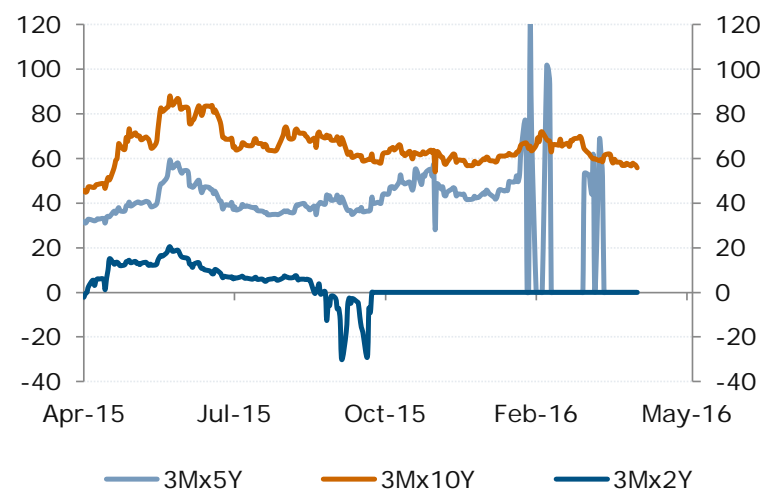
Money market rates vs. EONIA swap rates



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

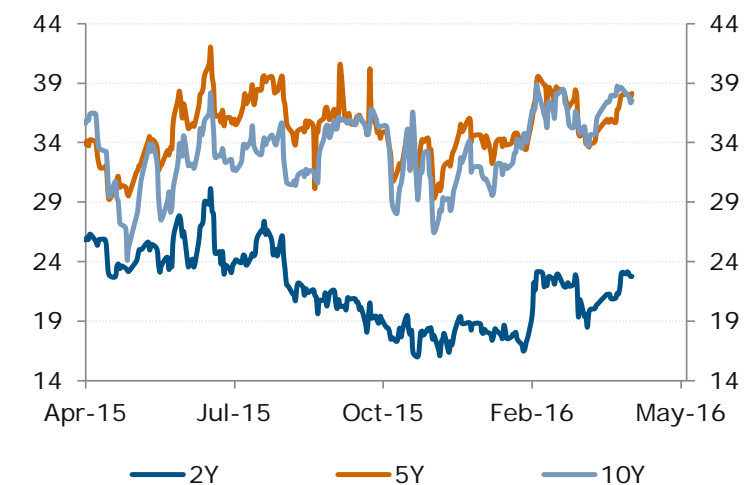


Swap & Cross-country Spreads

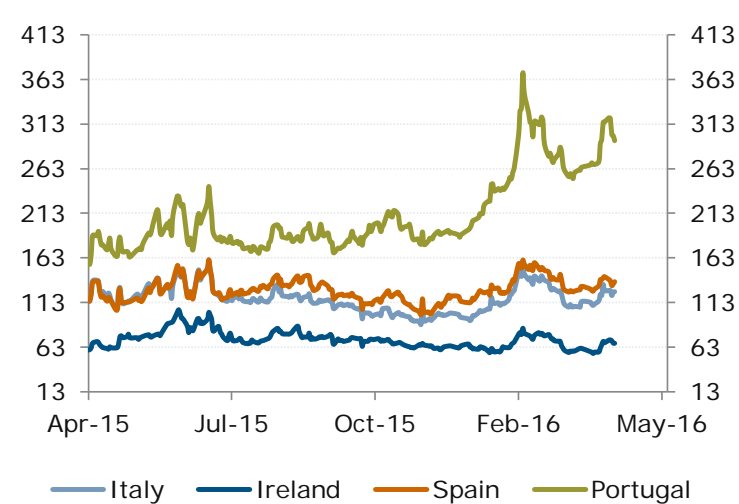
Swap spread:
Benchmark bond's spread to EUR swap curve.

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

German swap spreads, bp



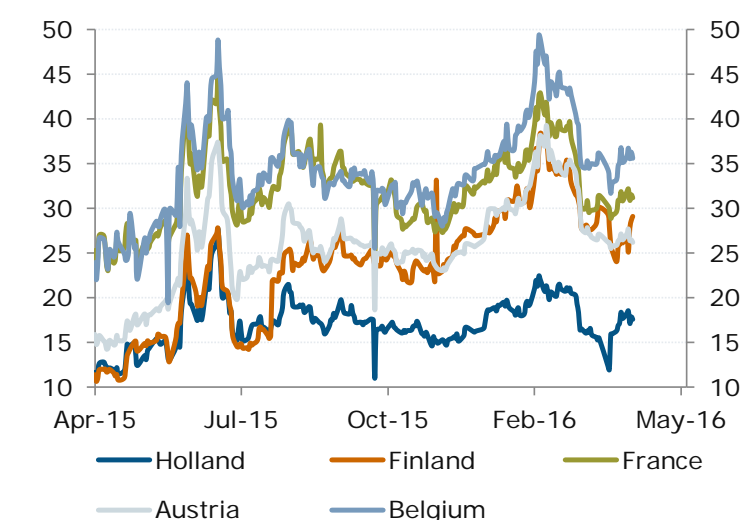
10Y non-AAA spreads against Germany, bp



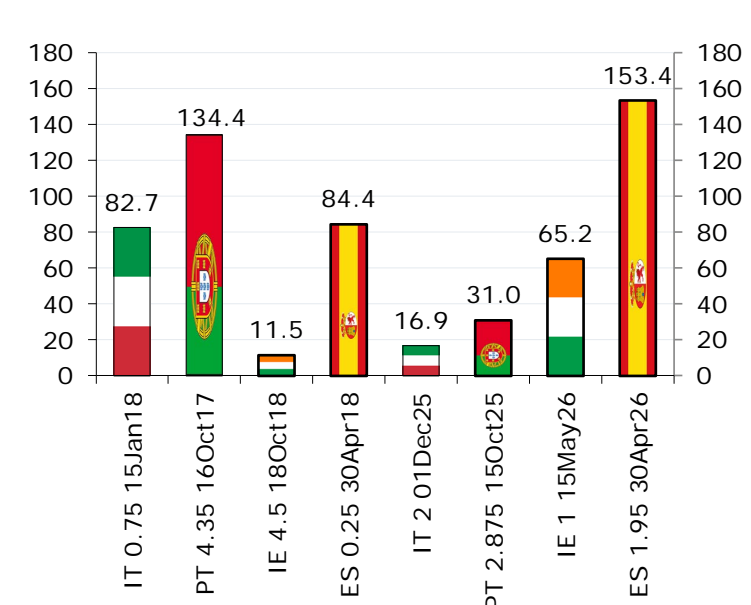
1Y break-even spread changes indicate how much a bond's spread against an equivalent bond trading on the German curve may widen in order to give the same return in one year.

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

10Y AAA/AA+ spreads to Germany, bp



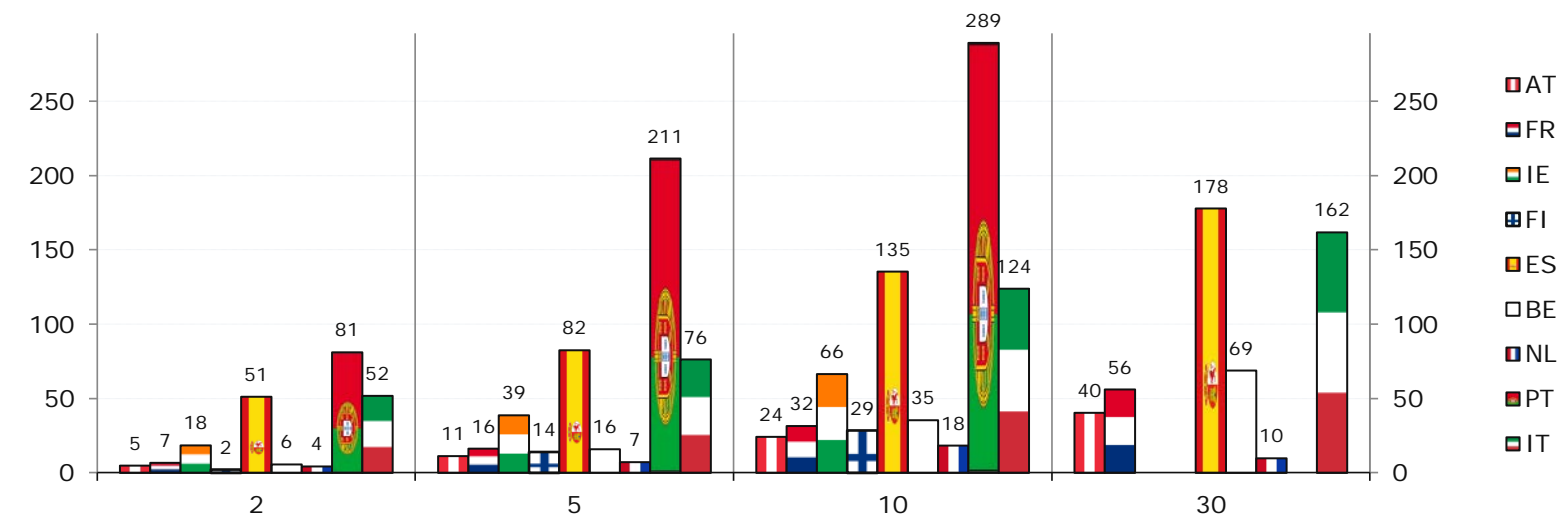
1Y B/E spread changes against Germany, bp



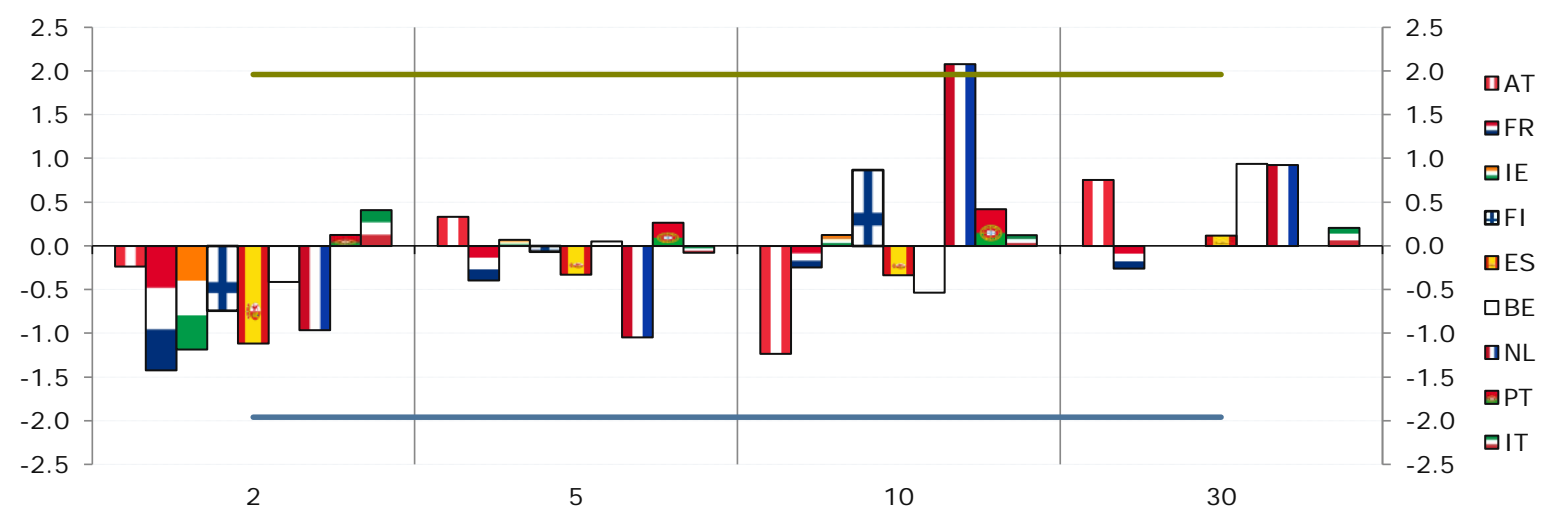


Country Relative Value

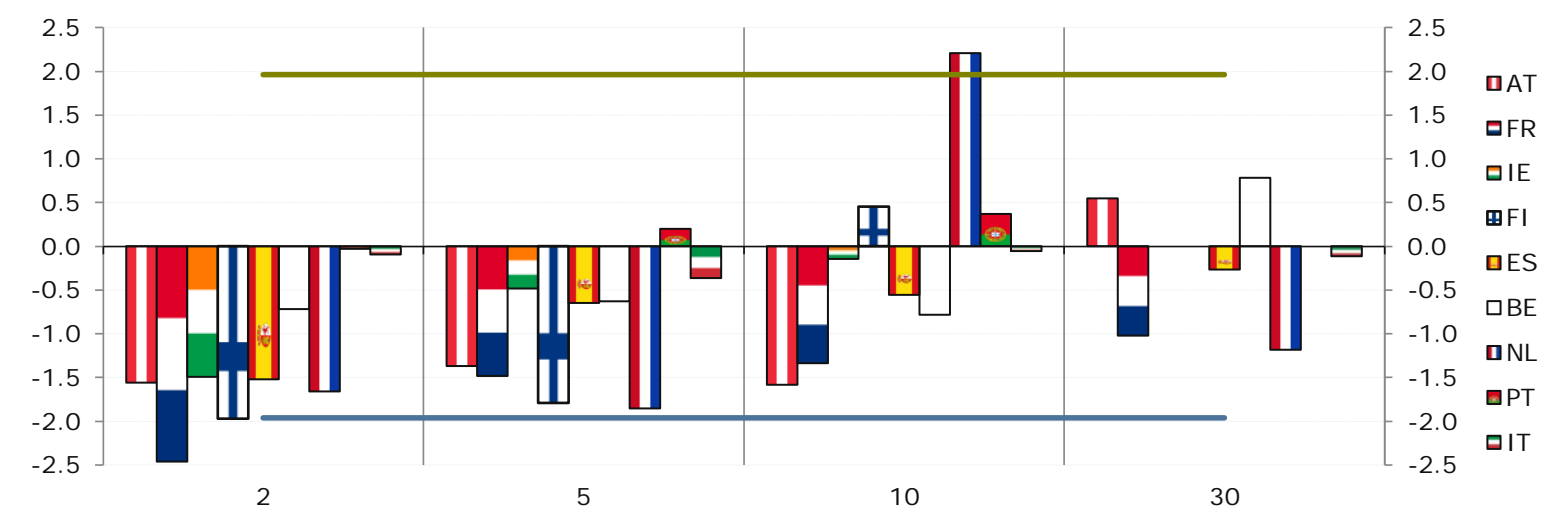
Benchmark spreads over the maturity-interpolated German par curve, bp



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	FI	04 Jul 19	4.375	8.5	-1.68	FI	04 Jul 19	4.375	-29.2	-3.18
	DE	16 Mar 18	0.000	-6.0	1.21	GR	17 Jul 17	3.375	1,079.4	0.20
5Y: Rich	NL	15 Jan 20	0.250	5.0	-1.87	NL	15 Jan 20	0.250	-32.9	-2.42
	IE	15 Mar 22	0.800	50.4	0.55	PT	15 Apr 21	3.850	210.4	0.38
7Y: Rich	AT	20 Oct 23	1.750	18.2	-1.52	AT	20 Oct 23	1.750	-22.2	-2.06
	DE	15 Aug 23	2.000	-26.2	1.34	GR	24 Feb 24	3.000	648.8	1.55
10Y: Rich	AT	21 Oct 24	1.650	20.5	-1.48	AT	21 Oct 24	1.650	-18.1	-1.91
	GR	24 Feb 28	3.000	768.9	1.65	GR	24 Feb 28	3.000	538.8	2.64
15Y: Rich	FI	15 Apr 31	0.750	30.2	-1.01	DE	04 Jan 37	4.000	-30.8	-2.11
	GR	24 Feb 36	3.000	665.4	3.24	GR	24 Feb 36	3.000	429.5	4.46
20Y: Rich	FI	04 Jul 42	2.625	14.9	-1.09	DE	15 Aug 46	2.500	-19.1	-1.62
	BE	22 Jun 47	1.600	68.9	1.37	BE	22 Jun 47	1.600	51.8	1.16

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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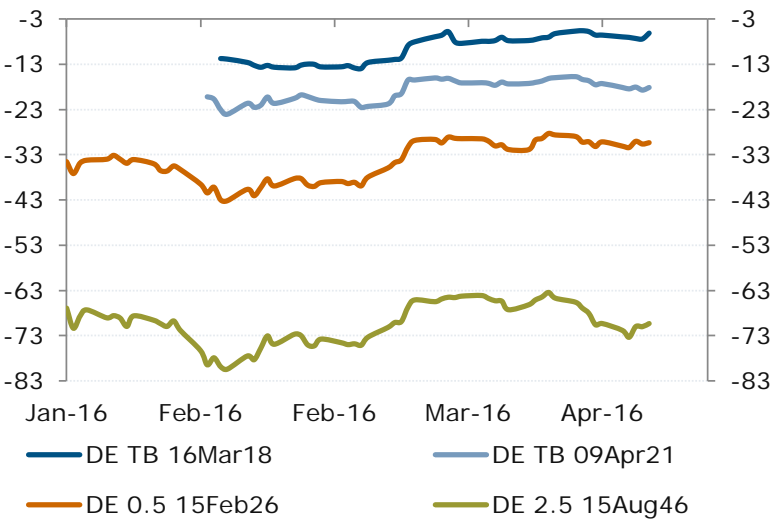
Moody's / S&P / Fitch

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

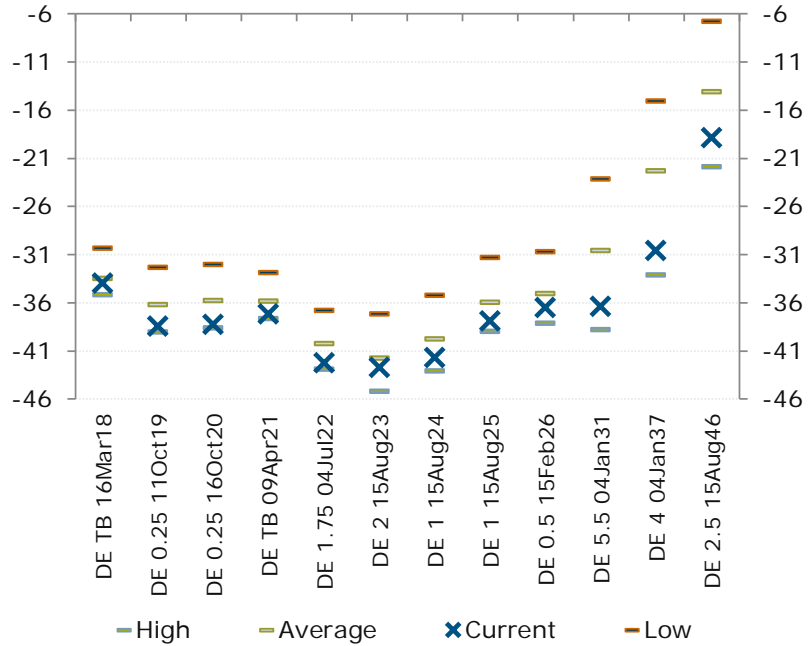
Germany

Benchmark Bonds				Spread vs. France				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
0.000	16 Mar 18	13.0B	-0.508	-6.0	-9.6	1.21	3.6	-34.2	-33.7	-0.42
0.250	11 Oct 19	16.0B	-0.497	-15.1	-17.0	1.11	1.6	-38.7	-36.5	-1.23
0.250	16 Oct 20	19.0B	-0.429	-18.0	-18.5	0.33	3.7	-38.5	-36.0	-1.33
0.000	09 Apr 21	13.0B	-0.379	-18.0	-18.9	0.42	-33.4	-37.4	-36.1	-1.04
1.750	04 Jul 22	24.0B	-0.309	-24.1	-26.2	0.87	3.0	-42.5	-40.5	-1.10
2.000	15 Aug 23	18.0B	-0.195	-26.2	-30.6	1.34	1.7	-43.0	-42.0	-0.47
1.000	15 Aug 24	18.0B	-0.074	-28.0	-32.1	1.07	-3.0	-42.0	-40.0	-0.99
1.000	15 Aug 25	23.0B	0.065	-29.4	-33.4	0.97	-0.3	-38.1	-36.2	-1.04
0.500	15 Feb 26	14.0B	0.132	-30.2	-34.6	1.10	-0.3	-36.7	-35.3	-0.81
5.500	04 Jan 31	17.0B	0.416	-49.7	-52.0	0.60	-0.2	-36.6	-30.8	-1.81
4.000	04 Jan 37	23.0B	0.643	-64.9	-63.2	-0.45	0.5	-30.8	-22.5	-2.11
2.500	15 Aug 46	15.0B	0.807	-70.2	-70.5	0.09	-0.7	-19.1	-14.4	-1.62

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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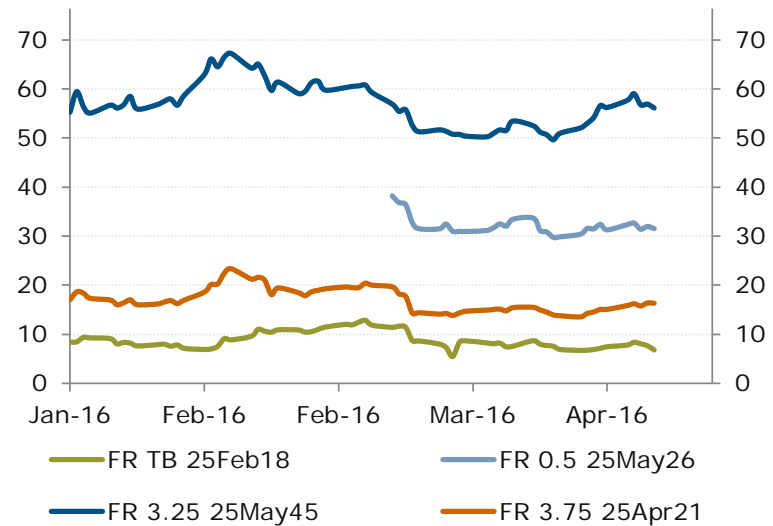
Moody's / S&P / Fitch

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

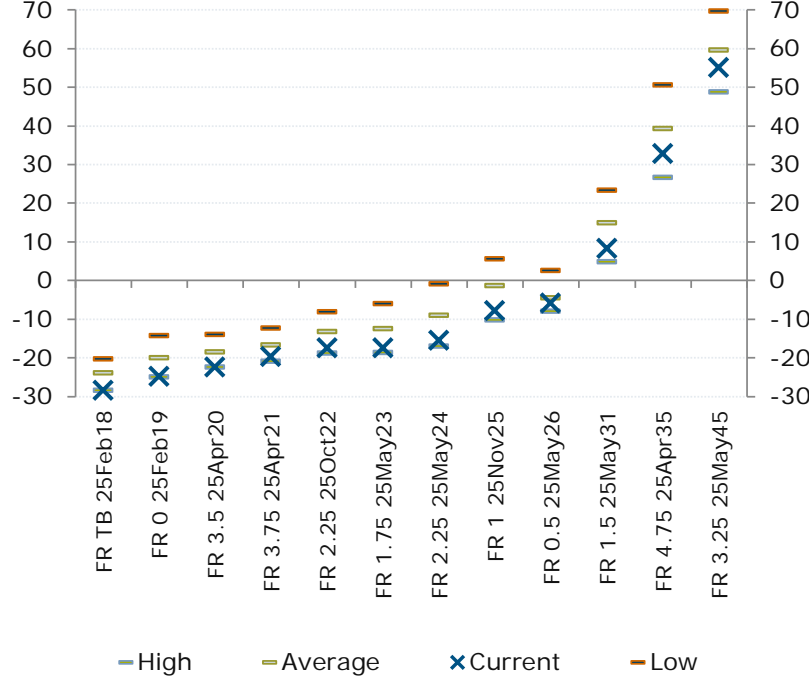
France

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
0.000	25 Feb 18	20.02B	-0.451	6.8	8.9	-1.38	-5.3	-28.5	-24.0	-2.43
0.000	25 Feb 19	9.48B	-0.394	12.0	14.5	-1.54	0.1	-24.9	-20.0	-2.45
3.500	25 Apr 20	37.27B	-0.310	14.9	15.9	-0.80	1.6	-22.5	-18.6	-2.22
3.750	25 Apr 21	37.03B	-0.213	16.3	17.1	-0.39	3.7	-19.7	-16.7	-1.45
2.250	25 Oct 22	30.02B	-0.044	22.2	24.3	-0.91	2.0	-17.5	-13.4	-1.54
1.750	25 May 23	33.97B	0.023	23.1	26.1	-1.16	1.7	-17.5	-12.6	-1.55
2.250	25 May 24	30.55B	0.143	23.3	27.6	-1.19	1.0	-15.6	-9.1	-1.48
1.000	25 Nov 25	25.99B	0.393	29.0	33.7	-1.16	-0.1	-7.8	-1.5	-1.41
0.500	25 May 26	9.87B	0.473	31.5	32.1	-0.41	-0.1	-6.0	-4.5	-0.66
1.500	25 May 31	13.01B	0.927	44.7	45.8	-0.30	-0.6	8.2	14.8	-1.29
4.750	25 Apr 35	25.03B	1.093	41.6	41.2	0.11	-0.1	32.7	39.2	-1.02
3.250	25 May 45	17.01B	1.410	56.1	57.1	-0.26	-0.2	55.0	59.5	-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

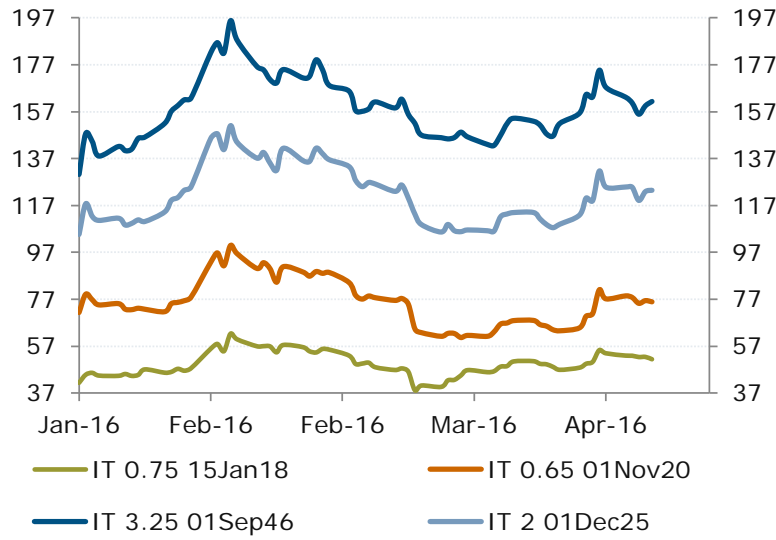
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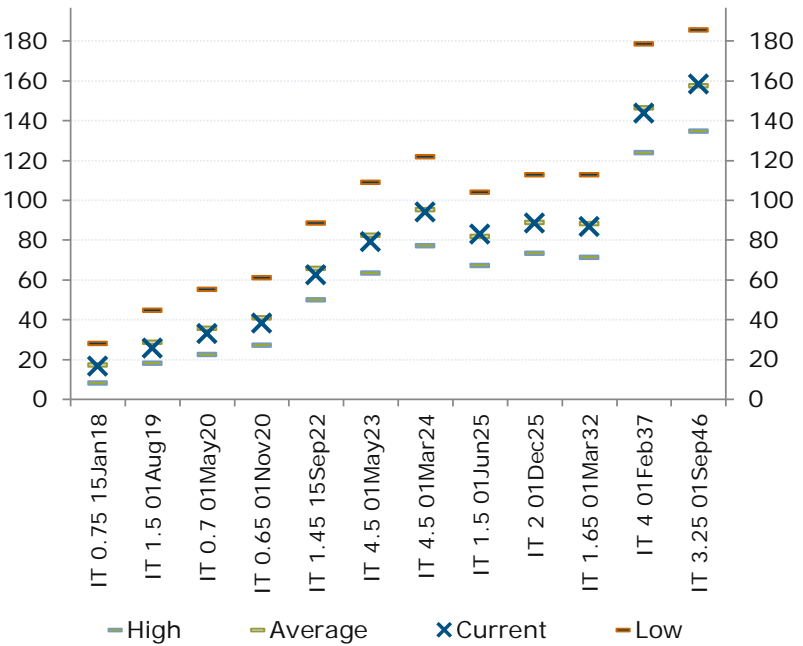
Italy

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
0.750	15 Jan 18	15.46B	0.001	51.8	50.1	0.38	93.2	16.4	17.2	-0.25
1.500	01 Aug 19	16.01B	0.128	62.6	62.7	-0.03	0.4	25.5	28.4	-0.51
0.700	01 May 20	15.99B	0.254	71.2	71.5	-0.05	0.0	32.7	35.5	-0.39
0.650	01 Nov 20	14.02B	0.348	76.3	77.0	-0.09	-0.1	38.2	40.9	-0.36
1.450	15 Sep 22	17.03B	0.751	102.8	104.6	-0.18	-0.1	62.3	65.5	-0.37
4.500	01 May 23	18.02B	0.866	108.2	109.5	-0.12	-0.2	79.2	82.4	-0.32
4.500	01 Mar 24	23.71B	1.083	120.2	119.9	0.03	0.3	93.9	95.2	-0.12
1.500	01 Jun 25	19.99B	1.269	122.5	120.0	0.24	0.0	82.8	81.7	0.12
2.000	01 Dec 25	17.01B	1.344	123.9	122.8	0.10	-0.1	88.4	88.6	-0.03
1.650	01 Mar 32	16.01B	1.807	128.4	125.0	0.33	5.4	86.7	88.1	-0.16
4.000	01 Feb 37	26.01B	2.192	146.1	144.7	0.13	0.1	143.6	146.2	-0.22
3.250	01 Sep 46	13.24B	2.473	161.8	159.9	0.17	-0.1	158.3	157.5	0.08

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

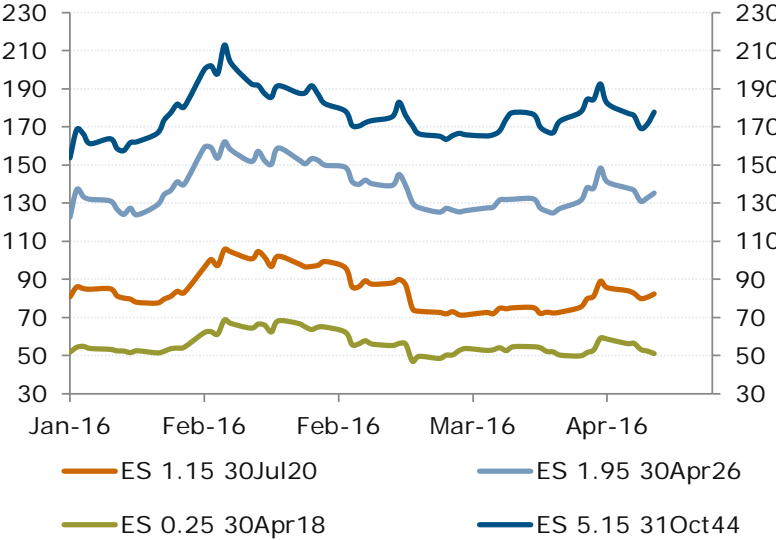
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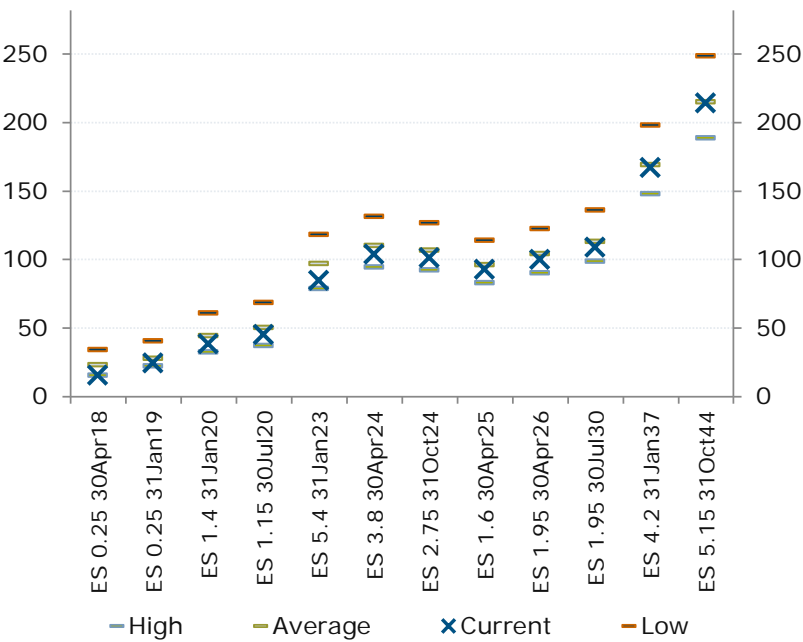
Spain

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
0.250	30 Apr 18	16.99B	-0.008	51.2	56.5	-1.11	82.8	15.2	23.2	-1.85
0.250	31 Jan 19	5.46B	0.102	61.7	63.8	-0.46	28.3	24.4	27.9	-0.84
1.400	31 Jan 20	21.91B	0.280	75.2	79.1	-0.51	0.0	38.2	44.4	-0.88
1.150	30 Jul 20	17.02B	0.388	82.5	85.3	-0.33	-29.2	45.2	50.2	-0.64
5.400	31 Jan 23	21.99B	0.848	108.8	118.5	-0.99	-1.2	84.4	96.8	-1.23
3.800	30 Apr 24	21.99B	1.219	131.8	136.4	-0.49	0.3	103.6	110.0	-0.72
2.750	31 Oct 24	23.99B	1.310	134.2	138.4	-0.44	0.1	101.2	106.8	-0.65
1.600	30 Apr 25	19.09B	1.351	131.8	134.3	-0.27	1.0	92.4	96.0	-0.44
1.950	30 Apr 26	14.84B	1.507	135.4	138.9	-0.36	7.3	100.0	103.9	-0.48
1.950	30 Jul 30	12.31B	1.938	150.4	150.4	0.00	11.4	108.7	112.9	-0.51
4.200	31 Jan 37	17.02B	2.388	165.7	164.0	0.18	1.7	166.8	168.9	-0.22
5.150	31 Oct 44	11.23B	2.624	177.9	177.0	0.08	0.8	214.0	214.8	-0.07

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

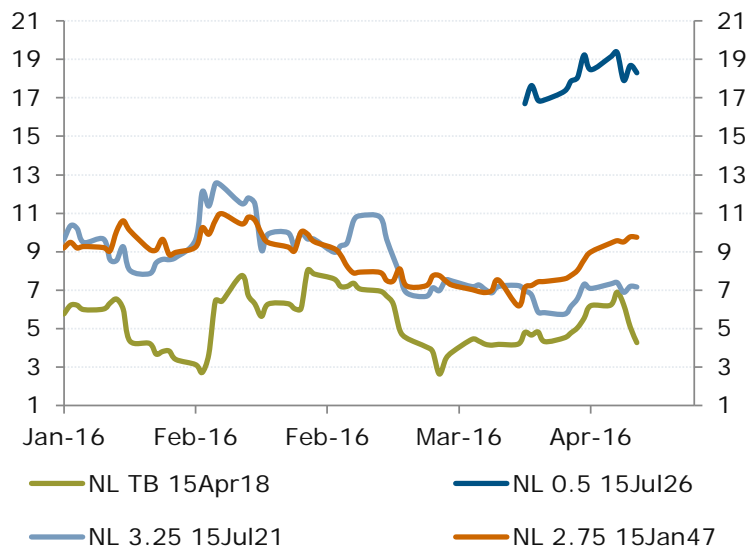
Rating	Aaa/AA+/AAA
Moody's / S&P / Fitch	

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

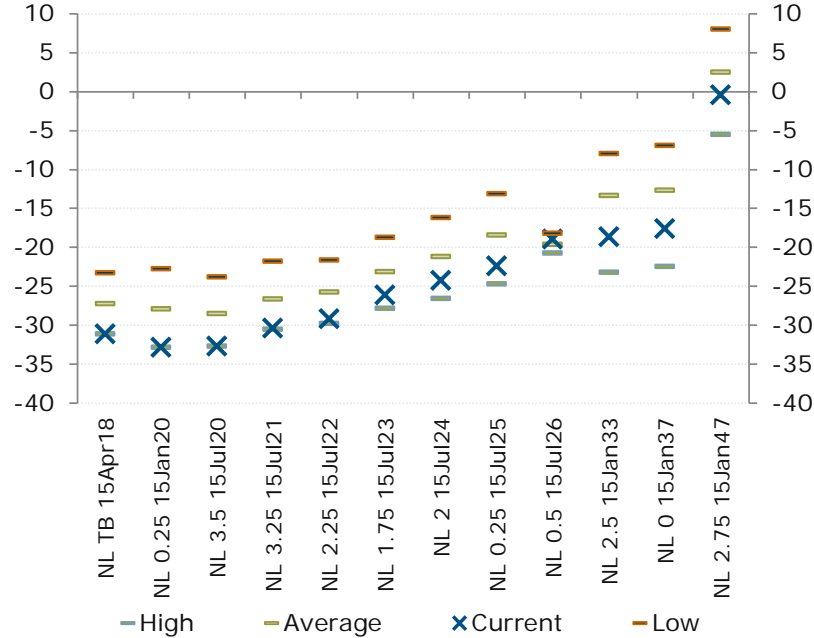
Netherlands

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
0.000	15 Apr 18	15.99B	-0.477	4.3	5.5	-0.93	-2.1	-31.2	-27.3	-2.41
0.250	15 Jan 20	15.84B	-0.424	5.0	7.5	-1.87	-20.1	-32.9	-28.0	-2.42
3.500	15 Jul 20	15.02B	-0.389	5.1	6.5	-1.25	-0.2	-32.7	-28.5	-2.14
3.250	15 Jul 21	16.99B	-0.290	7.2	8.8	-1.01	0.1	-30.4	-26.7	-1.84
2.250	15 Jul 22	15.01B	-0.182	11.1	12.2	-0.77	-0.3	-29.2	-25.8	-1.91
1.750	15 Jul 23	15.63B	-0.044	14.8	16.0	-0.84	0.1	-26.2	-23.2	-1.55
2.000	15 Jul 24	15.32B	0.079	15.0	16.0	-0.72	-0.1	-24.3	-21.2	-1.49
0.250	15 Jul 25	15.01B	0.223	16.5	18.8	-1.07	0.0	-22.4	-18.5	-1.50
0.500	15 Jul 26	5.51B	0.351	18.4	18.1	0.35	4.5	-19.0	-19.6	0.85
2.500	15 Jan 33	12.01B	0.690	11.8	10.6	0.58	-0.1	-18.7	-13.4	-1.26
0.000	15 Jan 37	0.0B	0.863	13.4	13.9	-0.19	0.5	-17.7	-12.7	-1.30
2.750	15 Jan 47	11.01B	0.955	9.8	8.9	0.91	0.0	-0.5	2.4	-0.98

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

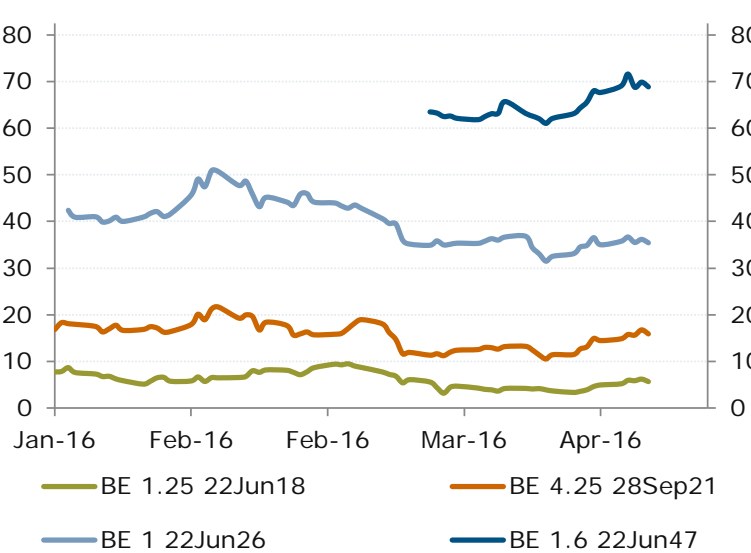
Rating	Aa3/AA/AA
Moody's / S&P / Fitch	

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

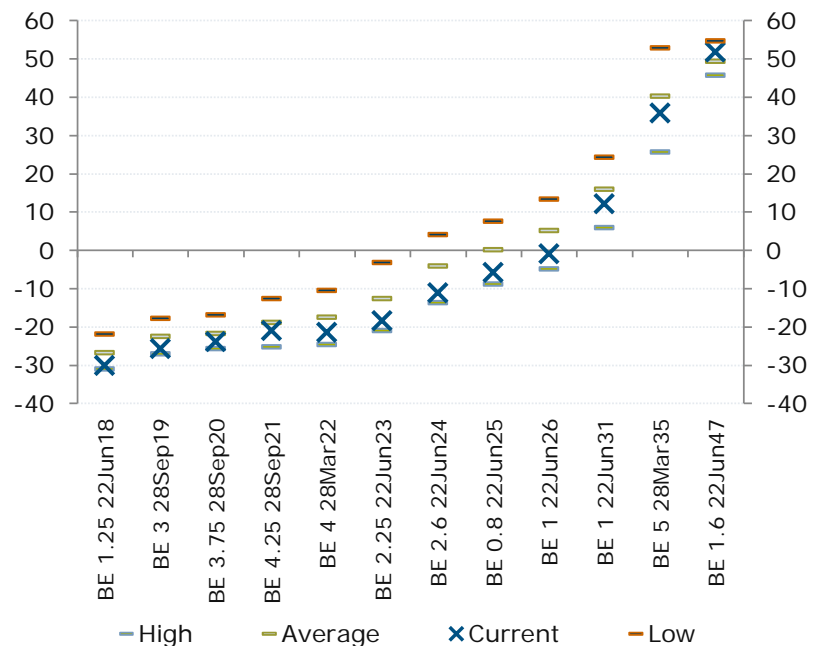
Belgium

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
1.250	22 Jun 18	11.01B	-0.462	5.7	6.2	-0.39	3.3	-30.0	-26.7	-1.44
3.000	28 Sep 19	12.01B	-0.371	11.8	12.2	-0.25	-2.1	-25.6	-22.4	-1.54
3.750	28 Sep 20	19.01B	-0.295	12.8	12.5	0.22	-0.7	-23.9	-21.7	-1.07
4.250	28 Sep 21	15.98B	-0.191	15.9	15.8	0.06	-1.3	-21.0	-18.9	-0.67
4.000	28 Mar 22	14.02B	-0.148	17.2	18.3	-0.43	-1.8	-21.4	-17.5	-1.06
2.250	22 Jun 23	13.99B	0.018	21.8	25.5	-1.10	-2.9	-18.3	-12.6	-1.38
2.600	22 Jun 24	15.85B	0.189	26.8	31.4	-1.20	-2.6	-11.1	-4.1	-1.47
0.800	22 Jun 25	16.02B	0.378	32.7	37.0	-1.12	-2.5	-5.7	0.2	-1.44
1.000	22 Jun 26	6.24B	0.517	35.4	40.1	-1.09	-2.1	-0.9	5.1	-1.29
1.000	22 Jun 31	4.52B	1.001	51.7	50.0	0.44	-0.1	12.2	16.0	-0.85
5.000	28 Mar 35	19.01B	1.105	43.0	40.9	0.54	0.5	35.9	40.3	-0.67
1.600	22 Jun 47	3.5B	1.548	68.9	64.8	1.37	-0.4	51.8	49.4	1.16

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

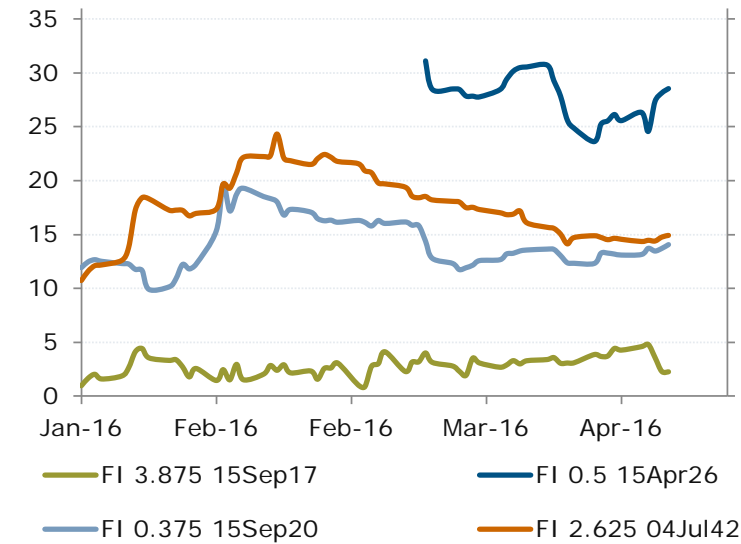
Rating	Aaa/AA+/AAA
Moody's / S&P / Fitch	

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

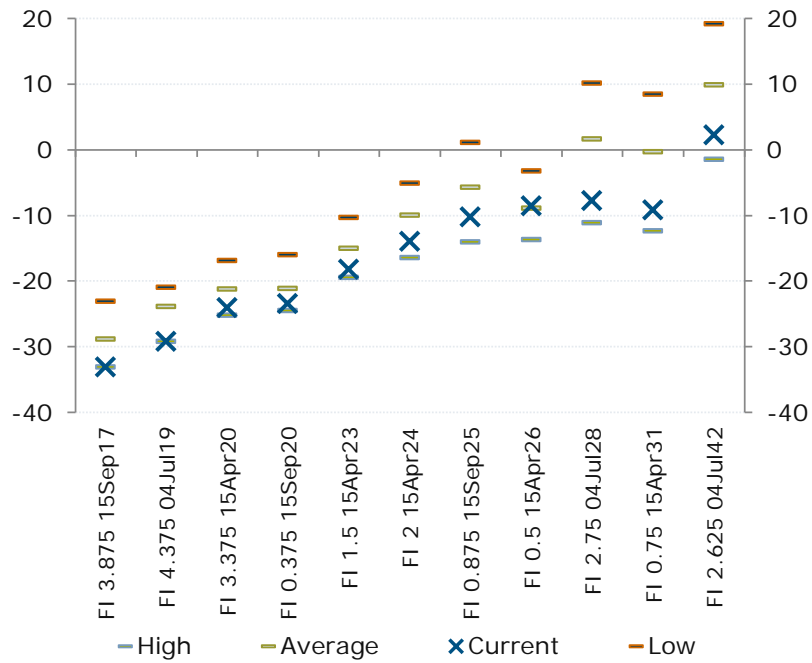
Finland

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
3.875	15 Sep 17	6.0B	-0.491	2.3	2.8	-0.79	-1.2	-33.1	-28.9	-2.26
4.375	04 Jul 19	5.0B	-0.416	8.5	10.6	-1.68	-1.3	-29.2	-23.8	-3.18
3.375	15 Apr 20	6.5B	-0.327	13.5	13.5	0.00	-2.8	-24.1	-21.2	-1.72
0.375	15 Sep 20	6.03B	-0.285	14.1	14.2	-0.08	-3.6	-23.4	-21.1	-1.71
1.500	15 Apr 23	5.0B	0.008	22.8	24.2	-0.56	-1.9	-18.2	-15.0	-1.69
2.000	15 Apr 24	5.0B	0.150	25.4	27.5	-0.81	-0.9	-14.0	-10.0	-1.50
0.875	15 Sep 25	4.03B	0.353	27.3	30.1	-0.84	-0.1	-10.2	-5.7	-1.18
0.500	15 Apr 26	4.0B	0.435	28.5	27.4	0.72	0.6	-8.5	-8.9	0.12
2.750	04 Jul 28	5.0B	0.565	26.3	30.0	-1.06	-0.5	-7.8	1.7	-1.66
0.750	15 Apr 31	3.5B	0.776	30.2	34.0	-1.01	-0.2	-9.2	-0.3	-1.66
2.625	04 Jul 42	4.03B	0.983	14.9	17.7	-1.09	-0.1	2.3	9.9	-1.35

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

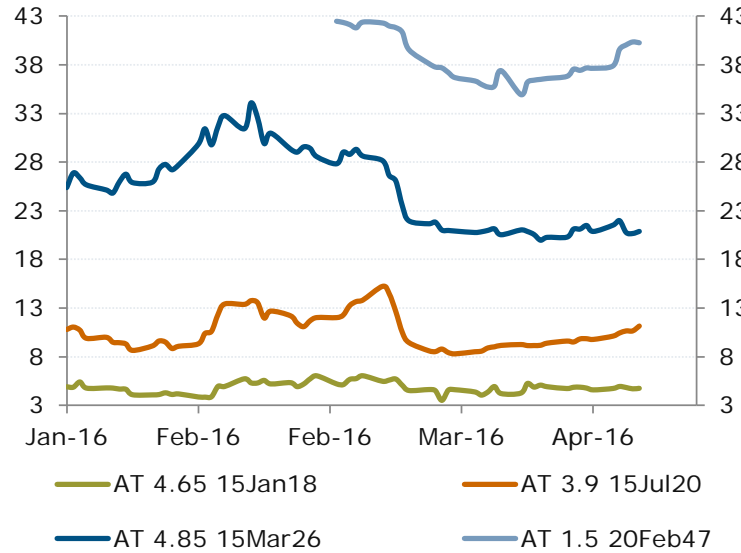
Rating	Aaa/AA+/AA+
Moody's / S&P / Fitch	

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

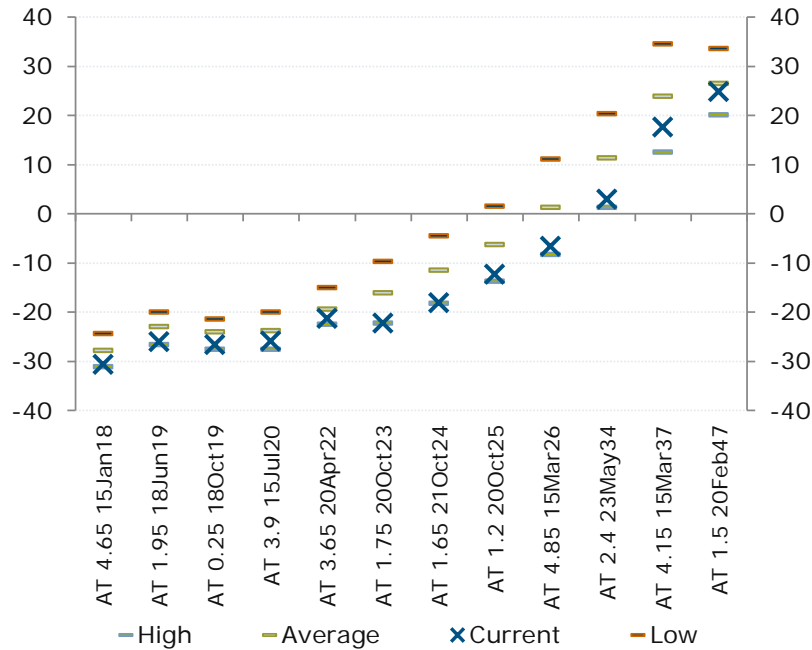
Austria

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
4.650	15 Jan 18	12.06B	-0.469	4.9	5.0	-0.23	0.0	-30.6	-27.8	-1.87
1.950	18 Jun 19	7.21B	-0.388	11.6	11.6	-0.01	-0.5	-26.0	-23.0	-1.92
0.250	18 Oct 19	7.95B	-0.376	11.1	11.0	0.02	-0.9	-26.6	-24.1	-1.78
3.900	15 Jul 20	13.01B	-0.327	11.3	10.8	0.33	-0.5	-25.9	-23.8	-1.39
3.650	20 Apr 22	8.71B	-0.140	17.6	16.9	0.40	-1.4	-21.3	-19.4	-1.21
1.750	20 Oct 23	9.99B	0.021	18.2	22.6	-1.52	-1.1	-22.2	-16.1	-2.06
1.650	21 Oct 24	10.35B	0.170	20.5	25.0	-1.48	-0.5	-18.1	-11.5	-1.91
1.200	20 Oct 25	9.28B	0.333	24.2	28.4	-1.19	-0.4	-12.3	-6.3	-1.53
4.850	15 Mar 26	8.01B	0.350	21.0	25.7	-1.28	-0.2	-6.6	1.3	-1.50
2.400	23 May 34	5.19B	0.928	28.3	30.7	-0.87	-1.0	2.9	11.4	-1.74
4.150	15 Mar 37	12.22B	1.023	28.8	28.7	0.05	-1.7	17.7	23.9	-1.16
1.500	20 Feb 47	1.95B	1.262	40.4	39.0	0.63	-4.3	24.9	26.5	-0.39

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

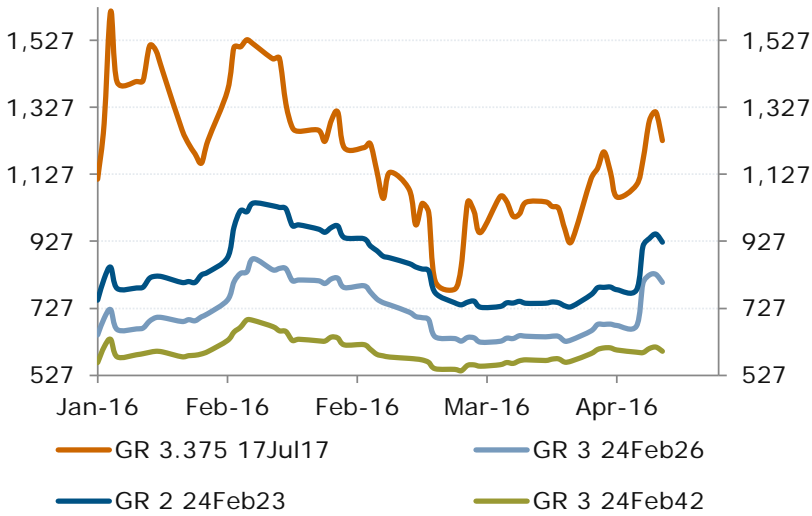
Source: European Commission, Winter 2015 forecast

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

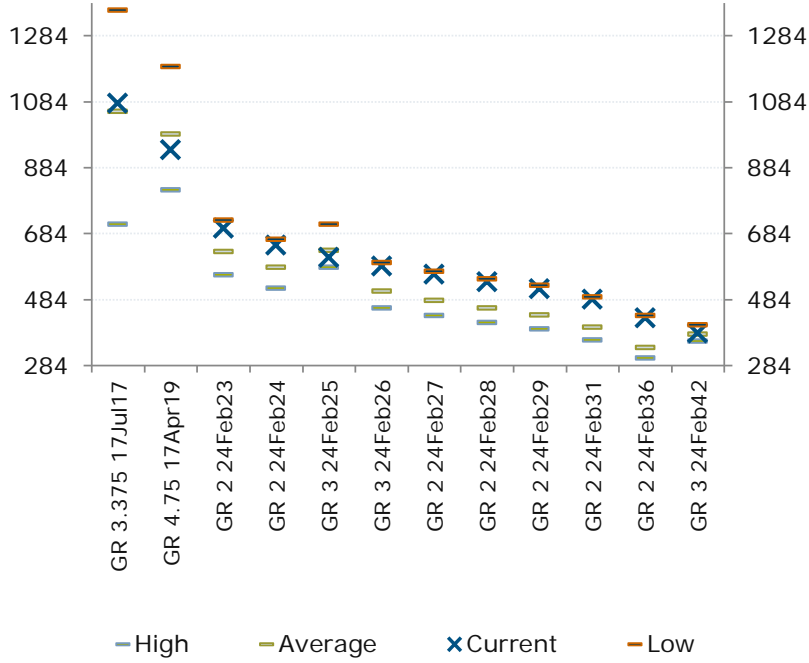
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
3.375	17 Jul 17	2.02B	11.767	1,227.8	1,204.0	0.15	-423.2	1,079.4	1,054.8	0.20
4.750	17 Apr 19	4.02B	10.398	1,091.1	1,164.6	-0.56	-129.6	937.6	985.9	-0.53
3.000	24 Feb 23	1.04B	9.007	924.1	854.5	0.83	-86.0	700.8	630.4	1.46
3.000	24 Feb 24	1.25B	8.547	866.8	802.2	0.83	-83.4	648.8	581.3	1.55
3.000	24 Feb 25	1.84B	8.294	828.4	880.5	-0.73	-65.0	612.3	633.8	-0.63
3.000	24 Feb 26	1.37B	8.172	803.9	723.8	1.20	-53.4	585.1	510.0	2.07
3.000	24 Feb 27	1.21B	8.056	784.7	696.2	1.46	-46.2	560.3	482.1	2.41
3.000	24 Feb 28	1.84B	7.967	768.9	674.4	1.65	-42.7	538.8	459.1	2.64
3.000	24 Feb 29	1.48B	7.846	750.2	652.8	1.75	-50.7	517.5	438.2	2.68
3.000	24 Feb 31	1.29B	7.680	721.3	610.2	2.26	-52.1	484.9	399.9	3.37
3.000	24 Feb 36	1.33B	7.356	665.4	535.6	3.24	-73.4	429.5	339.3	4.46
3.000	24 Feb 42	1.05B	6.813	598.1	600.4	-0.08	-45.9	382.6	379.8	0.26

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

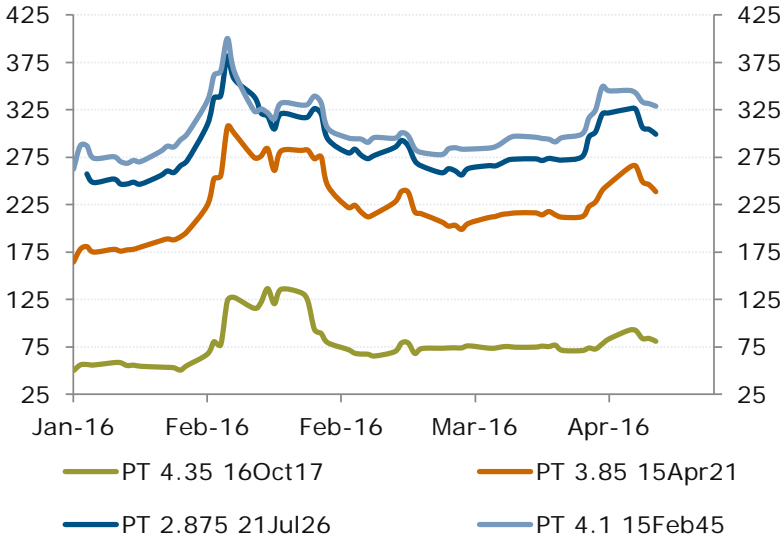
Source: European Commission, Winter 2015 forecast

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

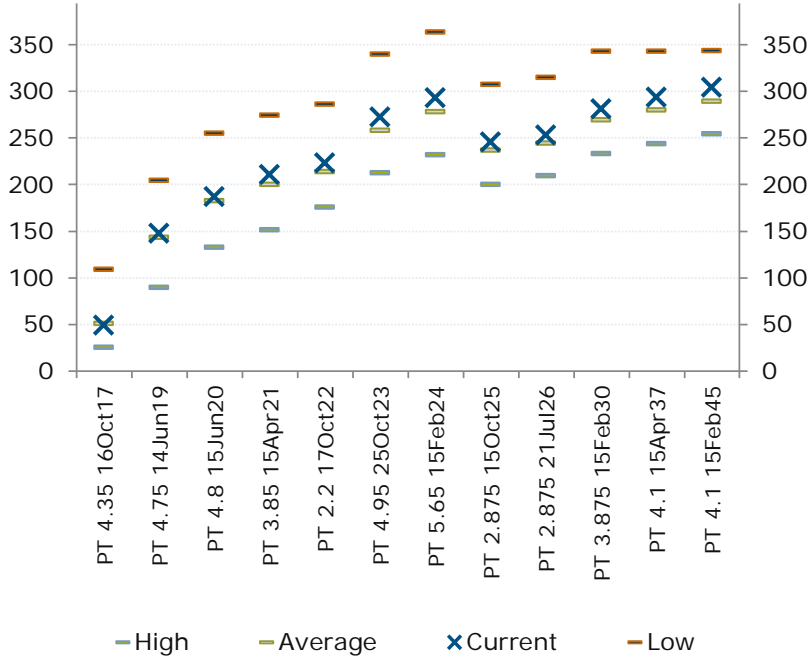
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
4.350	16 Oct 17	8.41B	0.297	81.1	79.5	0.10	-2.6	48.9	50.7	-0.11
4.750	14 Jun 19	10.99B	1.250	175.4	168.2	0.29	-6.2	147.4	143.1	0.17
4.800	15 Jun 20	10.99B	1.667	211.5	204.8	0.23	-2.8	186.7	182.4	0.16
3.850	15 Apr 21	10.69B	2.010	238.8	226.9	0.41	-0.8	210.4	200.2	0.38
2.200	17 Oct 22	4.0B	2.431	269.9	259.5	0.37	-1.1	222.7	213.9	0.37
4.950	25 Oct 23	8.02B	2.771	293.0	277.4	0.51	-1.3	272.1	257.8	0.51
5.650	15 Feb 24	12.02B	2.928	305.1	289.3	0.51	-1.3	292.6	277.8	0.52
2.875	15 Oct 25	10.52B	2.982	289.2	278.6	0.39	-1.9	245.4	236.5	0.40
2.875	21 Jul 26	4.19B	3.162	299.4	288.8	0.39	0.0	252.9	244.0	0.42
3.875	15 Feb 30	4.05B	3.610	320.3	302.0	0.67	-1.1	281.0	269.2	0.56
4.100	15 Apr 37	8.02B	3.954	321.7	300.8	0.82	0.6	293.6	279.7	0.74
4.100	15 Feb 45	3.0B	4.137	328.9	307.3	0.87	0.3	304.0	288.9	0.89

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

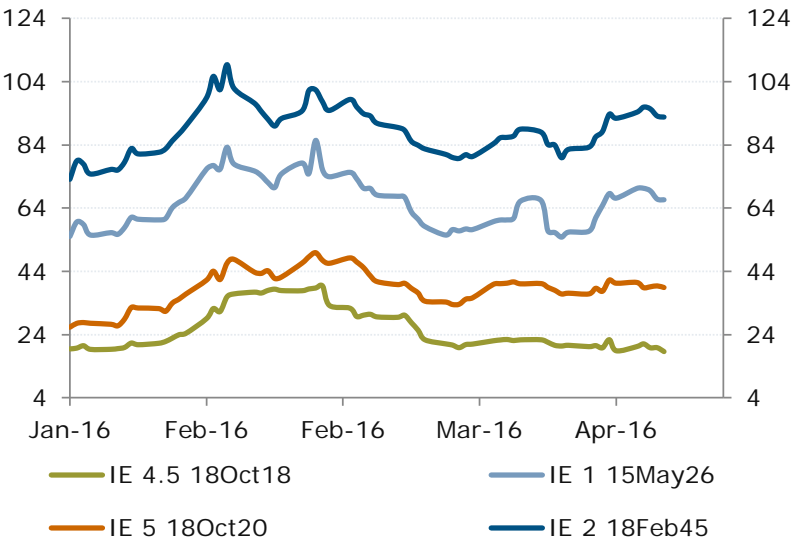
Rating	Baa1/A/A-
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Moody's / S&P / Fitch

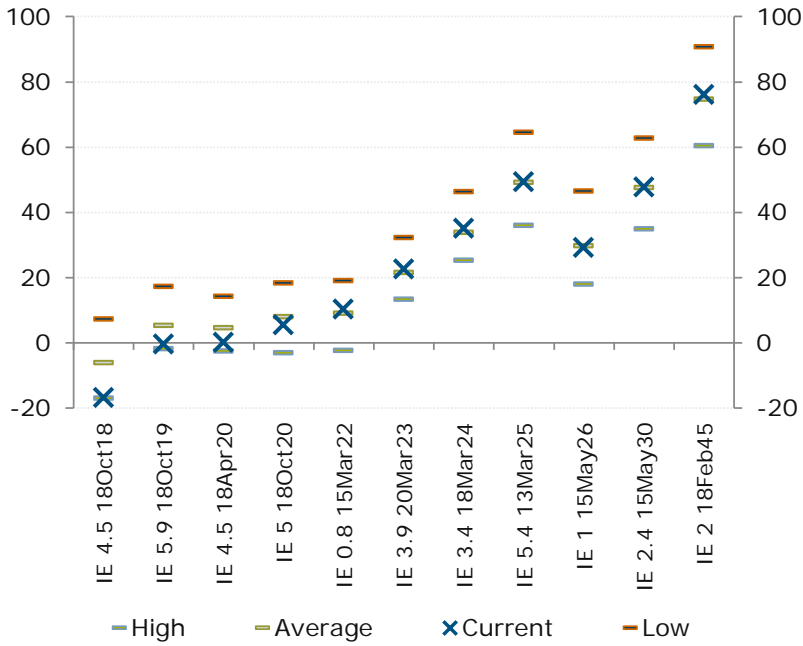
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
4.500	18 Oct 18	9.58B	-0.332	18.5	25.8	-1.18	-0.1	-16.9	-6.0	-1.67
5.900	18 Oct 19	6.58B	-0.146	34.1	36.5	-0.51	-0.2	-0.4	5.3	-1.20
4.500	18 Apr 20	11.77B	-0.108	35.3	36.8	-0.37	0.2	0.0	4.7	-1.17
5.000	18 Oct 20	8.99B	-0.031	38.7	38.6	0.03	0.5	5.5	7.9	-0.59
0.800	15 Mar 22	4.25B	0.182	50.4	47.3	0.55	-0.6	10.2	9.1	0.28
3.900	20 Mar 23	5.95B	0.345	57.3	54.4	0.51	-0.7	22.7	21.5	0.27
3.400	18 Mar 24	8.01B	0.573	68.6	65.8	0.47	-0.2	35.1	33.9	0.24
5.400	13 Mar 25	11.01B	0.726	71.0	68.7	0.34	-1.0	49.4	49.2	0.02
1.000	15 May 26	4.0B	0.820	66.5	65.8	0.10	4.3	29.3	29.8	-0.09
2.400	15 May 30	7.78B	1.224	80.2	74.4	0.80	1.0	47.7	47.6	0.02
2.000	18 Feb 45	5.95B	1.774	92.6	88.7	0.56	2.0	76.0	74.7	0.18

Spreads against the German curve, bp



Asset swap term structure, bp



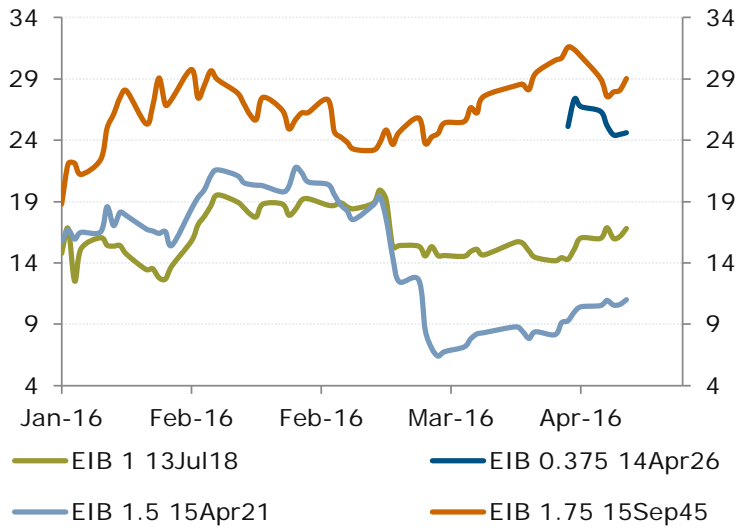


Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

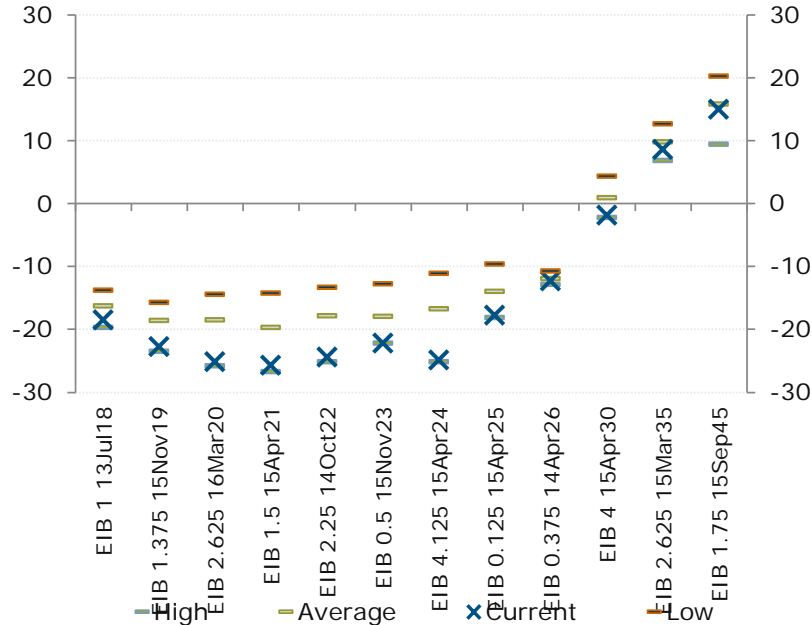
European Investment Bank (EIB)

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
1.000	13 Jul 18	5.0B	-0.347	17.1	16.7	0.27	1.3	-18.5	-16.3	-1.34
1.375	15 Nov 19	3.0B	-0.335	14.8	16.2	-0.62	0.3	-22.8	-18.7	-1.59
2.625	16 Mar 20	3.4B	-0.341	12.5	16.3	-1.07	-0.1	-25.2	-18.5	-1.59
1.500	15 Apr 21	5.0B	-0.264	11.3	15.3	-0.88	0.1	-25.8	-19.8	-1.34
2.250	14 Oct 22	5.75B	-0.112	15.7	20.0	-1.16	-0.1	-24.4	-17.9	-1.56
0.500	15 Nov 23	1.5B	0.043	19.5	22.6	-1.52	0.2	-22.2	-18.0	-1.44
4.125	15 Apr 24	7.25B	0.027	13.1	18.2	-1.32	0.2	-24.9	-16.8	-1.64
0.125	15 Apr 25	3.0B	0.247	22.0	24.8	-0.90	0.0	-17.8	-14.0	-1.23
0.375	14 Apr 26	5.0B	0.399	24.9	25.9	-0.84	0.0	-12.3	-12.0	-0.48
4.000	15 Apr 30	6.5B	0.685	26.8	23.0	1.57	0.2	-1.9	0.8	-1.69
2.625	15 Mar 35	1.7B	0.986	31.2	26.6	1.90	0.6	8.5	9.8	-0.91
1.750	15 Sep 45	1.3B	1.144	29.4	26.9	1.20	0.3	14.9	15.8	-0.54

Spreads against the German curve, bp



Asset swap term structure, bp

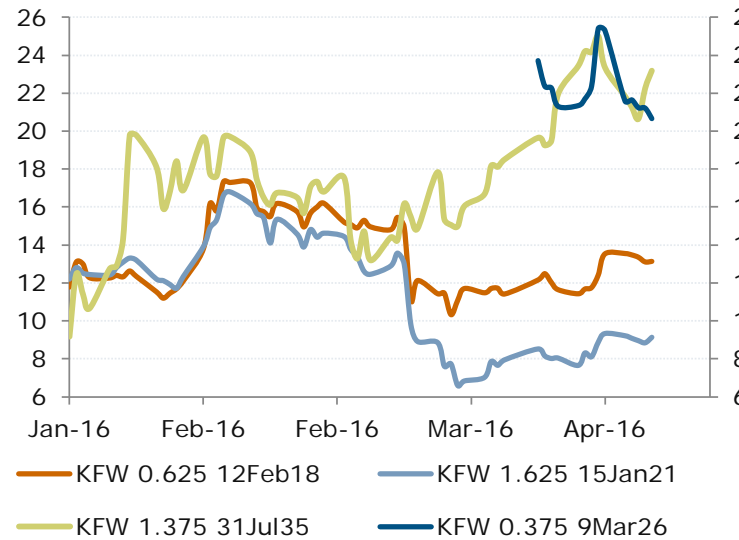


Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

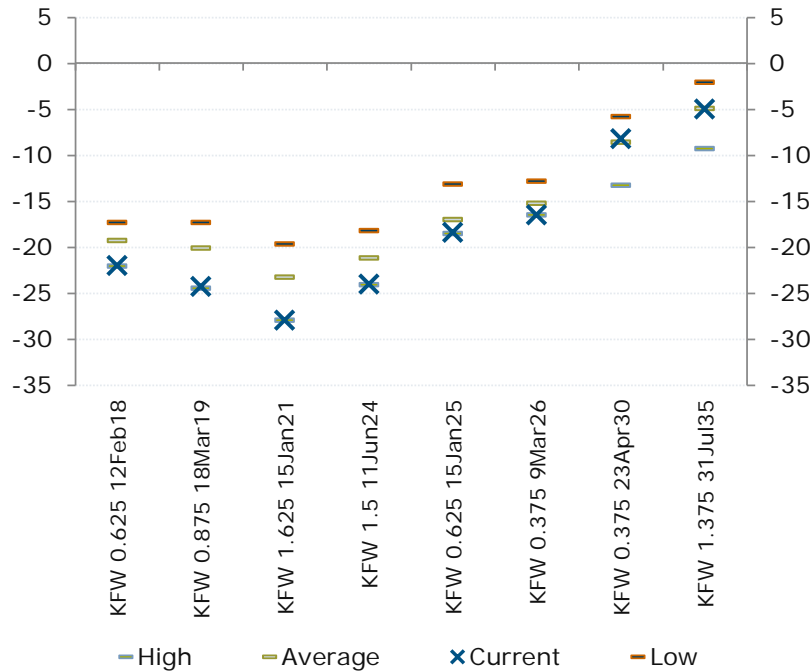
Kreditanstalt für Wiederaufbau (KfW)

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	15-Apr	60D Avg.	Z-score	Δ B/E Spd 1Y	15-Apr	60D Avg.	Z-score
0.625	12 Feb 18	2.0B	-0.386	13.3	13.6	-0.20	-2.1	-22.0	-19.3	-1.86
0.875	18 Mar 19	5.0B	-0.385	12.8	14.3	-0.94	0.6	-24.3	-20.2	-1.89
1.625	15 Jan 21	5.0B	-0.306	9.3	11.7	-0.92	0.1	-27.9	-23.3	-1.75
1.500	11 Jun 24	3.0B	0.076	16.0	17.6	-0.94	0.1	-24.1	-21.2	-1.50
0.625	15 Jan 25	3.0B	0.207	21.2	20.6	0.33	0.1	-18.4	-17.0	-1.77
0.375	09 Mar 26	4.0B	0.346	20.8	22.4	-1.38	-0.8	-16.5	-15.3	-1.07
0.375	23 Apr 30	2.0B	0.752	33.4	27.1	1.97	4.1	-8.3	-8.6	0.28
1.375	31 Jul 35	1.0B	0.919	23.3	17.7	2.10	0.6	-5.1	-5.0	-0.05

Spreads against the German curve, bp



Asset swap term structure, bp



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