

Euro Rates Update

Nordea Research, 14 januar 2016

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US Treasury Yields				
	2Y	5Y	10Y	30Y
	0,94	1,56	2,14	2,93
Δ 1D	-2,0	-4,0	-3,7	-3,3
Δ 1W	-9,7	-17,4	-12,0	-10,1

German Benchmark Yields				
	2Y	5Y	10Y	30Y
	-0,38	-0,13	0,51	1,33
Δ 1D	-0,6	-2,6	-4,1	-5,4
Δ 1W	-1,7	-2,6	-3,8	-8,2

German Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-25,5	-64,2	-89,7	-81,5
Δ 1D	-2,0	-1,6	-3,6	-1,3
Δ 1W	-0,9	-1,2	-2,1	-4,4

EUR Swap Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-31,1	-63,3	-94,4	-59,7
Δ 1D	-1,6	-1,7	-3,3	-1,0
Δ 1W	-1,9	-1,7	-3,6	-2,4

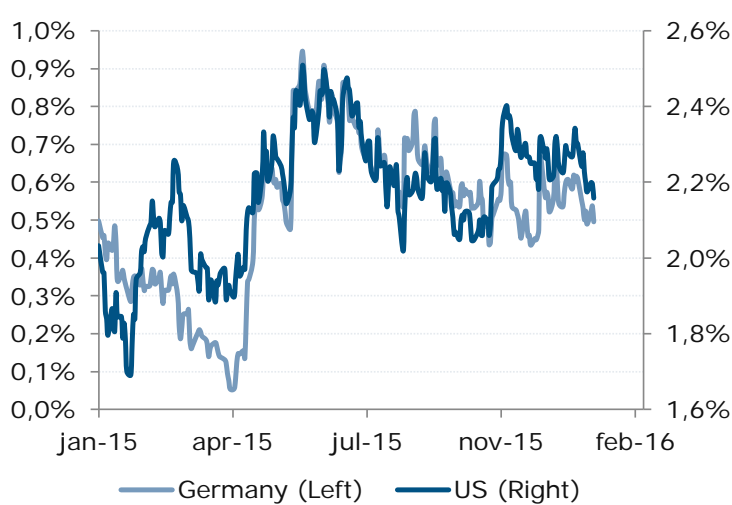
German Asset Swap Levels				
	2Y	5Y	10Y	30Y
	-29,2	-32,0	-29,3	-9,8
Δ 1D	-0,4	-0,6	-0,2	-0,5
Δ 1W	0,4	1,4	1,8	-0,4

10Y Benchmark Yields				
	Yield	Δ 1D	Spread	Δ 1D
GER	0,514	-4,1	-	-
FRA	0,885	-5,3	33,5	-1,1
ITA	1,571	-5,6	101,8	-1,4
ESP	1,789	-5,3	124,8	-1,1
BEL	0,863	-4,4	37,0	-0,4
HOL	0,699	-4,5	19,8	-0,4
AUT	0,811	-5,0	27,4	-0,9
GRE	7,693	0,1	724,4	4,2
POR	2,649	-4,2	211,4	-0,1
FIN	0,815	-4,7	29,0	-0,6
IRL	1,013	-4,0	55,7	0,1

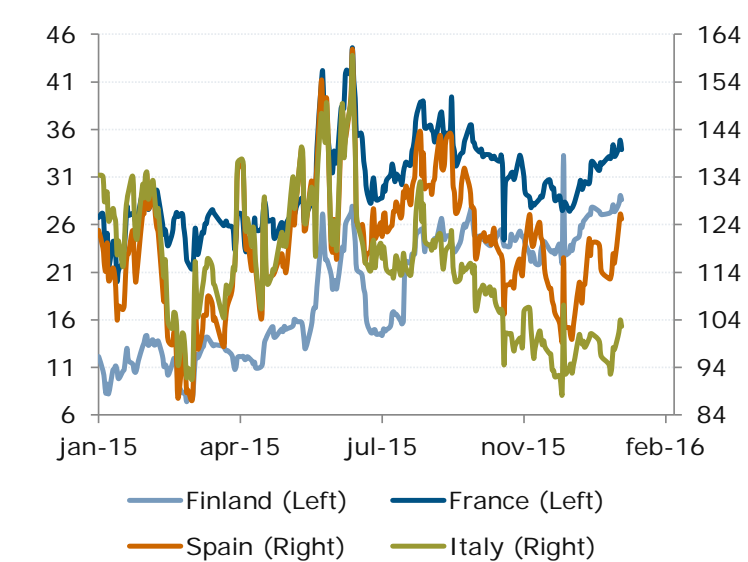
Spread = Maturity interpolated spread to German government par yield curve

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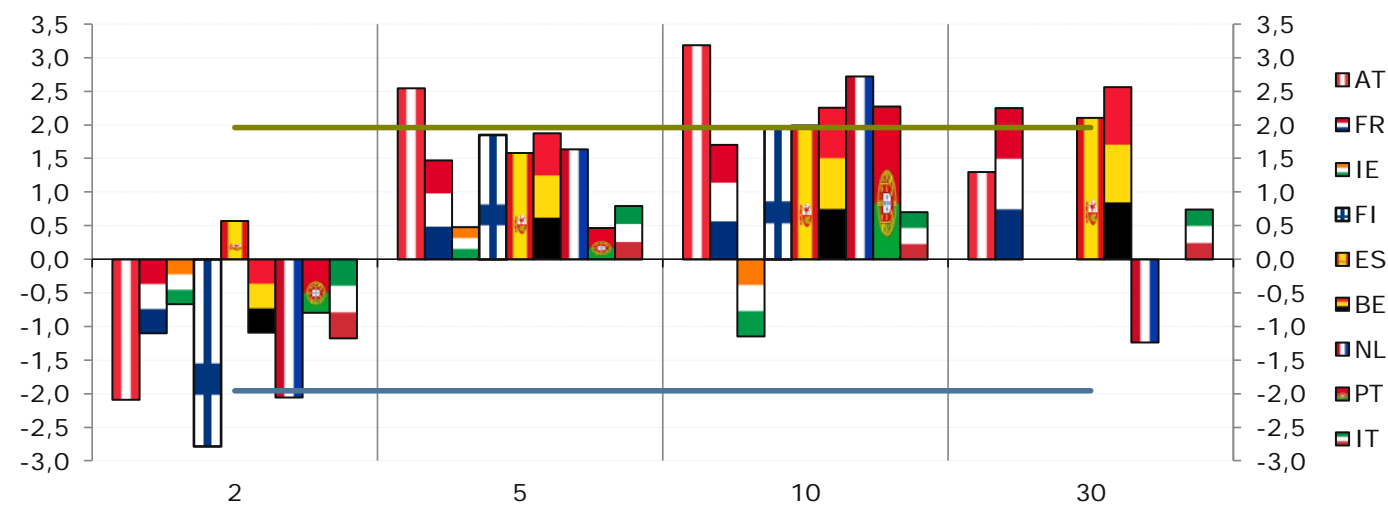
German & US 10-year benchmark yields, %



10 year spreads against Germany, bp



Z-scores of benchmark vs. Germany



Upcoming Issuance (source: Bloomberg)						
Date	Country	Coupon	Maturity	Amount (EURbn)		
14 jan	SP					
18 jan	BE					
18 jan	LN					
18 jan	SO	1,50%	2018			
18 jan	SO	3,38%	2024			
19 jan	FI	2,63%	2042			

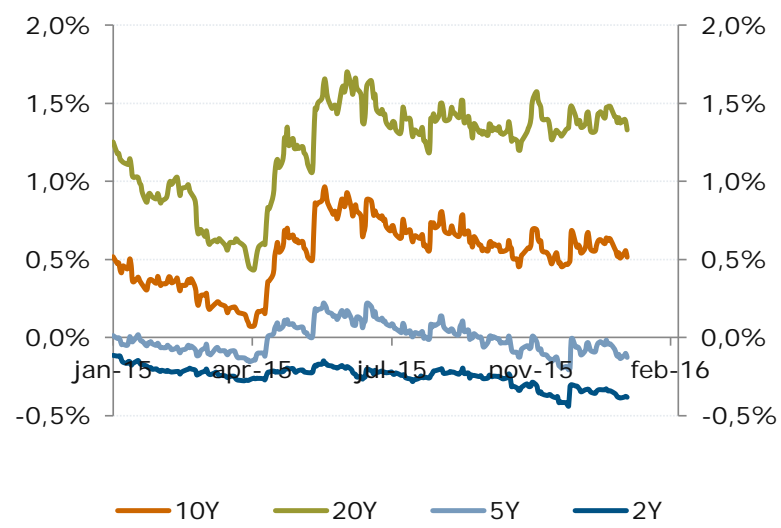
All bond quotes are taken at 16:15 CET.

Bond Yields & Curves

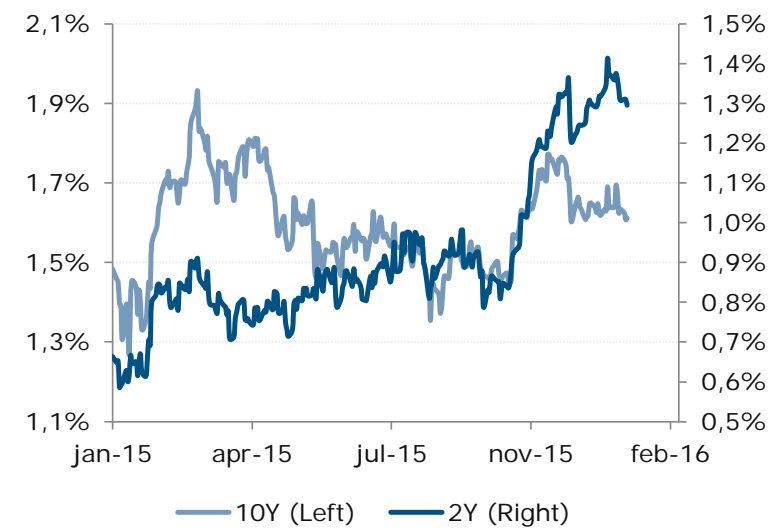
Yield Levels

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

German benchmark bond yields, %



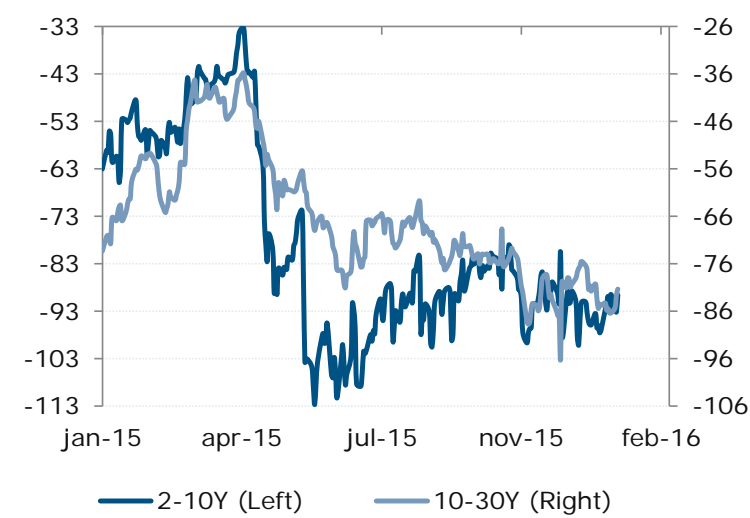
USA-Germany spreads, annualized yields, %



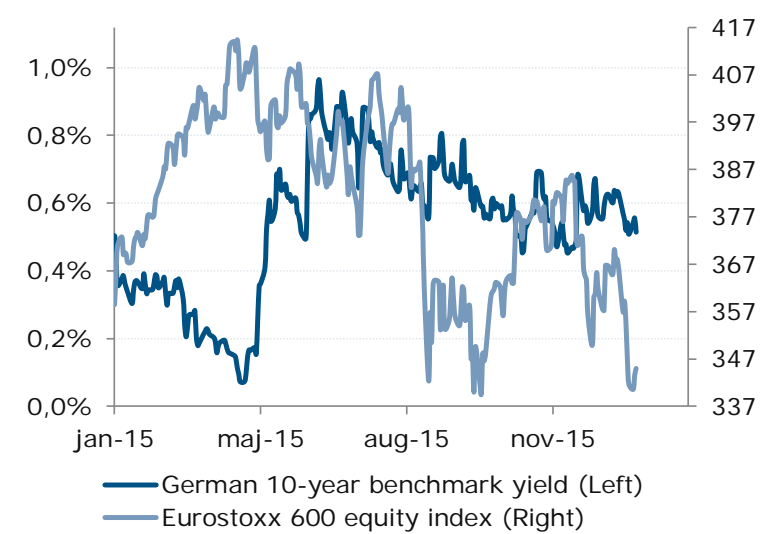
Bond Curve Shape

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

German yield curve slopes, bp



Bonds vs. equities



Swaps and Forwards

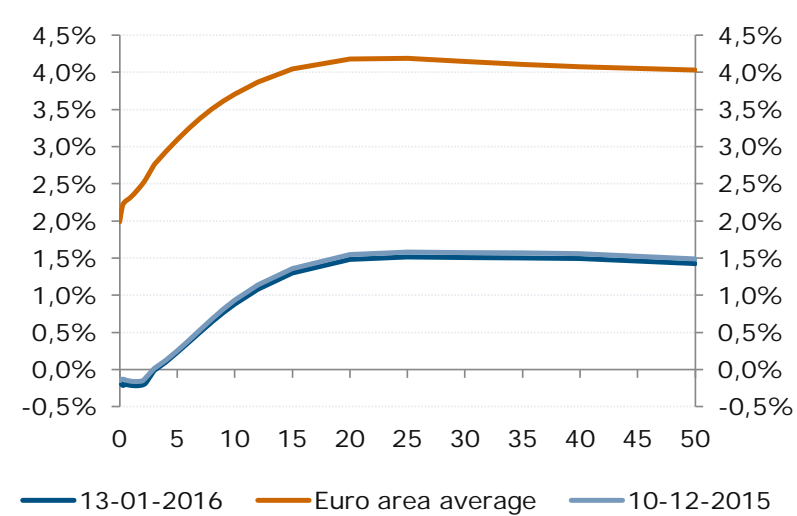
EUR swap rates and implied forwards, %



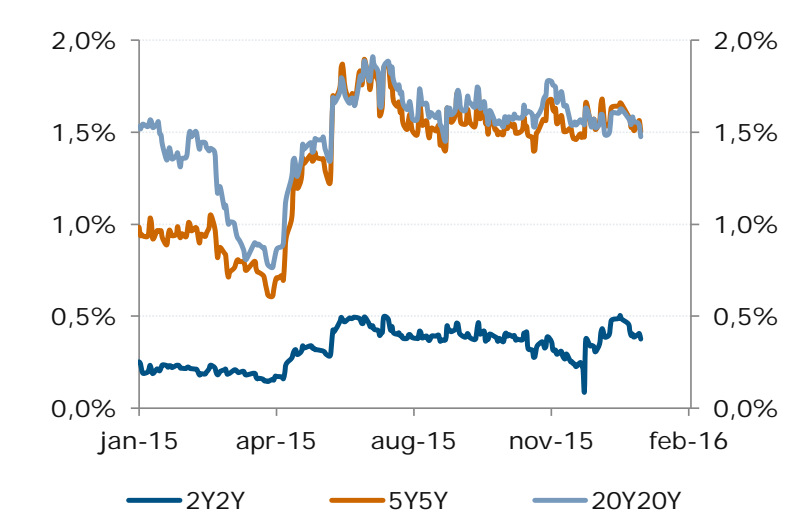
EUR-USD spreads and implied forwards, %



EUR swap curve shape vs. historical

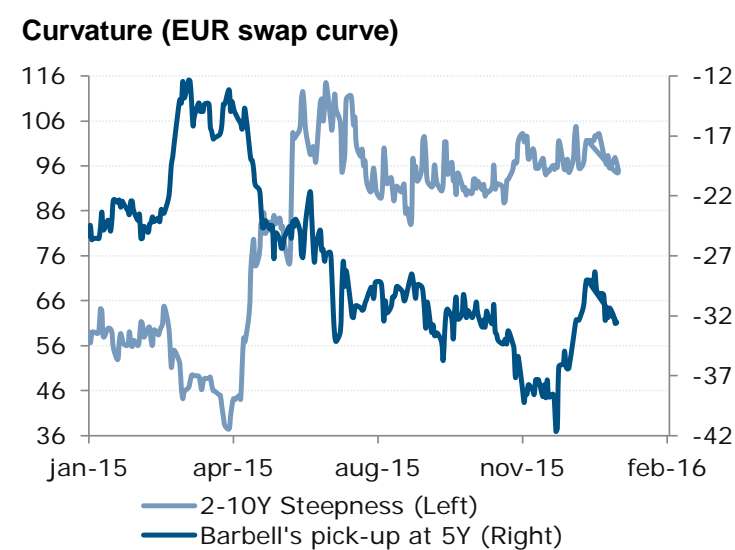


Historical forward rates, %



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.

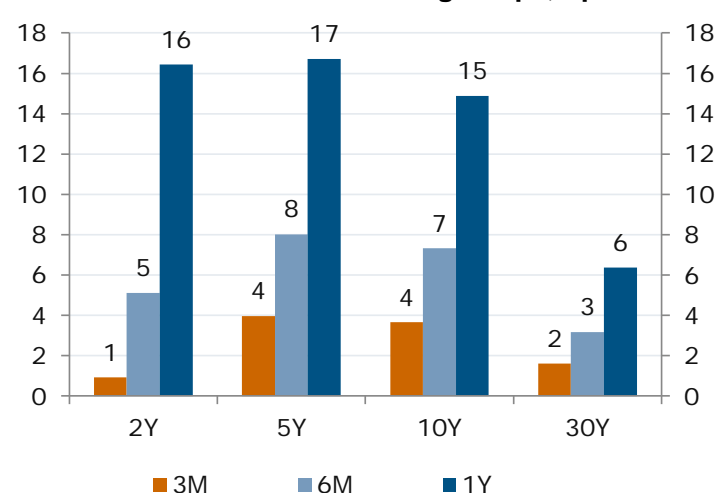


Carry

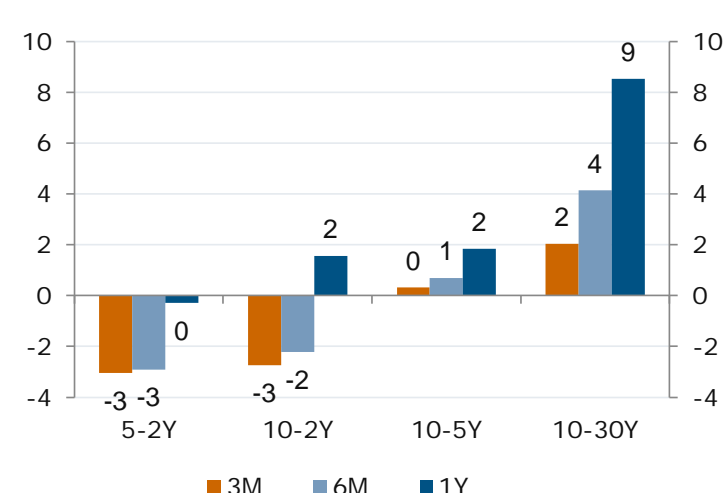
The carry on the given horizon illustrates how much the spot swap rate may rise for a receiver swap position in a forward-starting swap to result in zero profit.

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



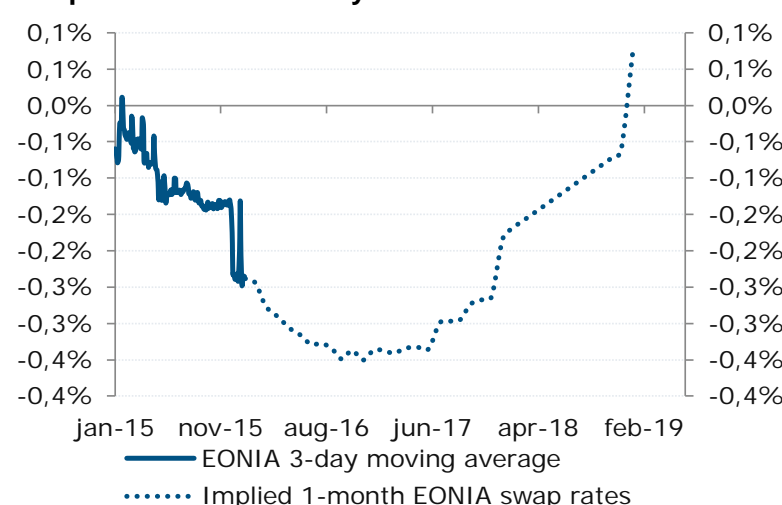
Yield buffers for duration-neutral steepeners, bp



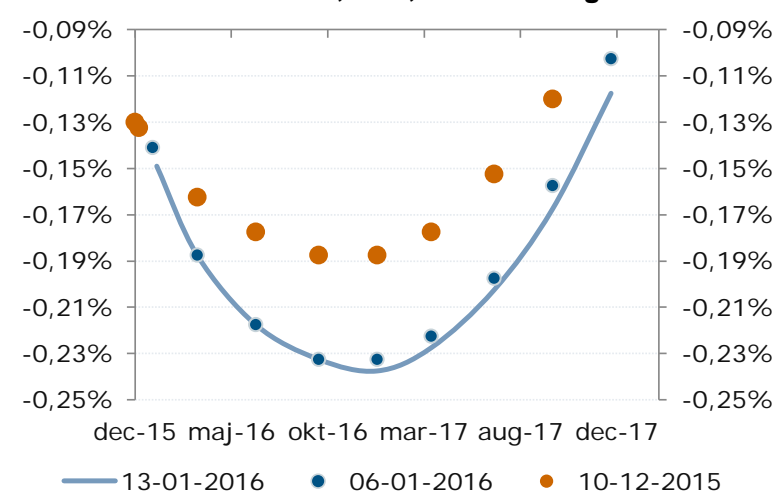
Money Market Rates

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

Expectations and history for EONIA



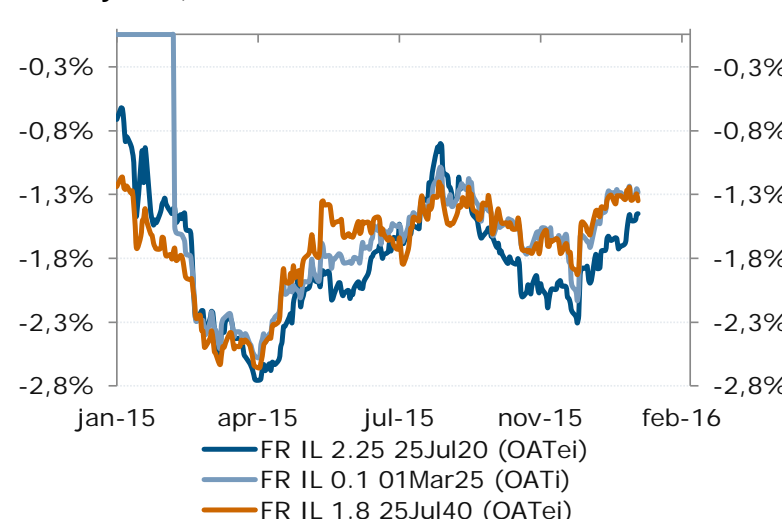
Euribor futures curve, now, 1 wk & 1M ago



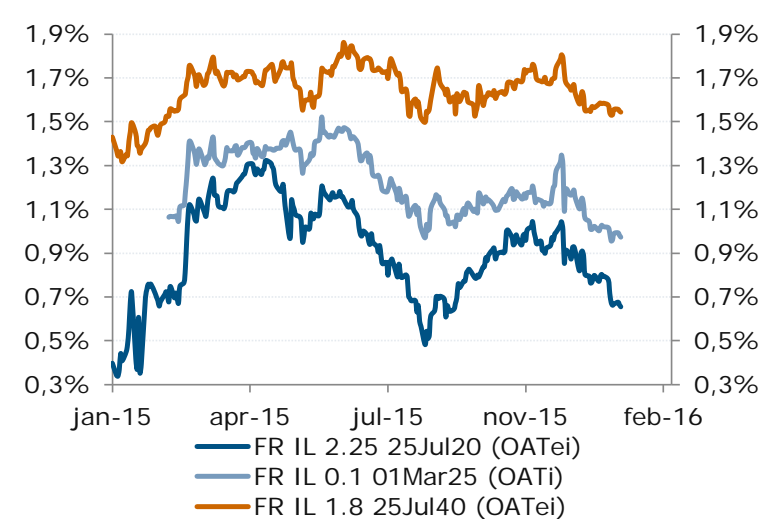
Inflation-linked Bonds

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

Real yields, %



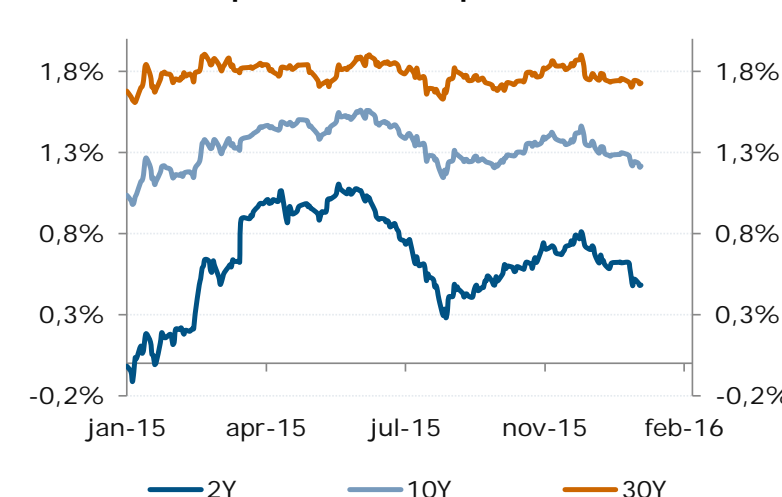
Break-even inflation history, %



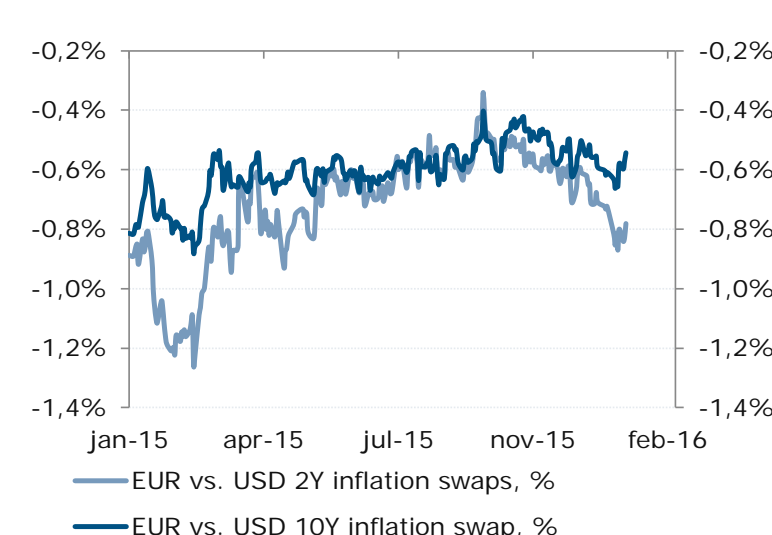
Inflation Swaps

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

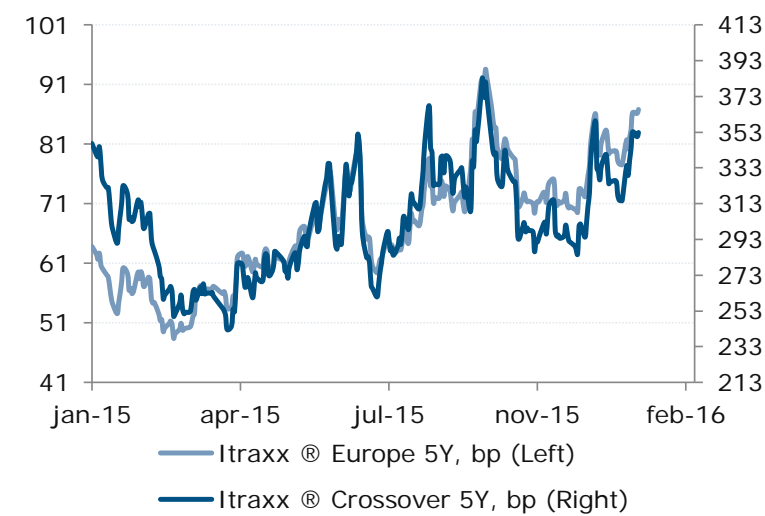


Credit & Money Market Spreads

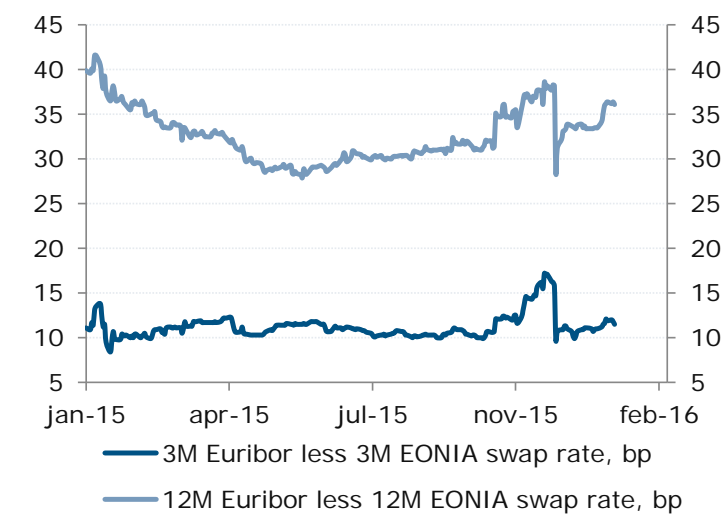
Credit default swap indices illustrate the annual cost of buying protection against a credit event of a company. iTraxx® Europe is comprised of the 125 most liquid CDS contracts referencing European investment grade credits, iTraxx® Crossover of 50 sub-investment grade credits.

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



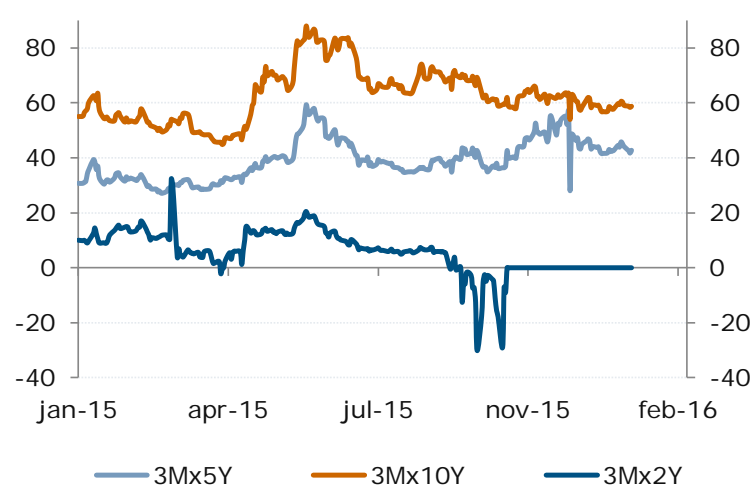
Money market rates vs. EONIA swap rates



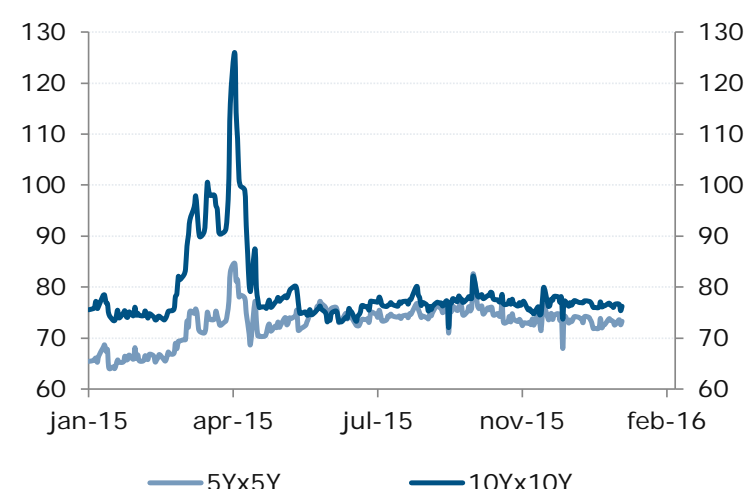
Swaption Volatilities

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

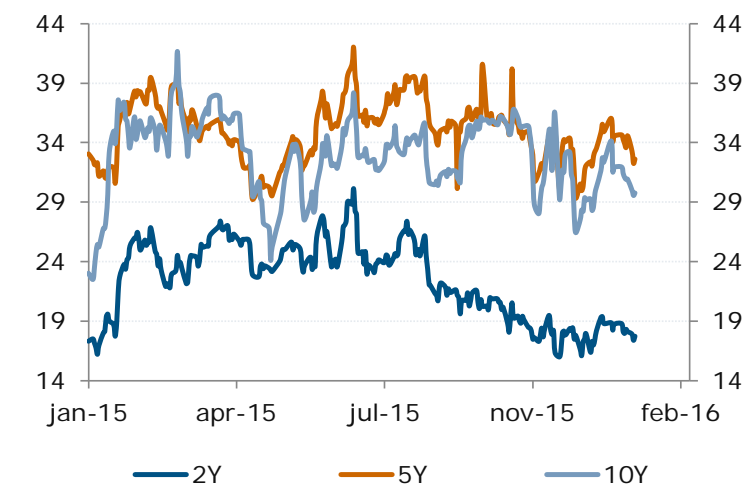
Swap spread:
Benchmark bond's spread to EUR swap curve.

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

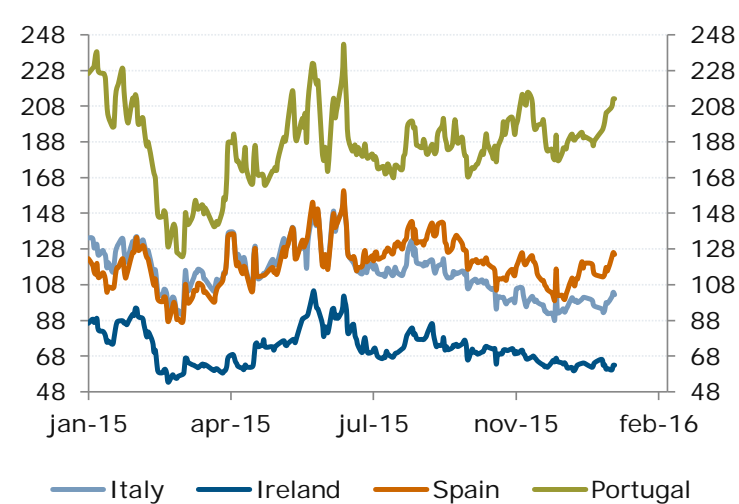
1Y break-even spread changes indicate how much a bond's spread against an equivalent bond trading on the German curve may widen in order to give the same return in one year.

The break-even spread change is based on the spread against the following two German benchmark bonds:
DE TB 15Dec17
DE 1 15Aug25

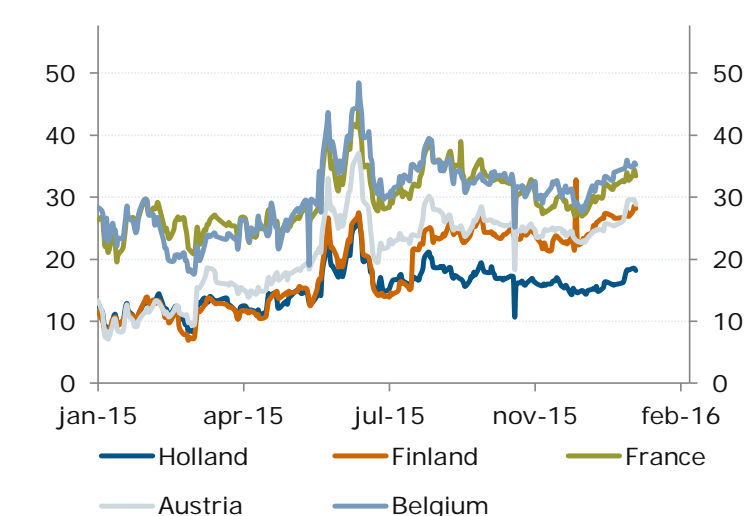
German swap spreads, bp



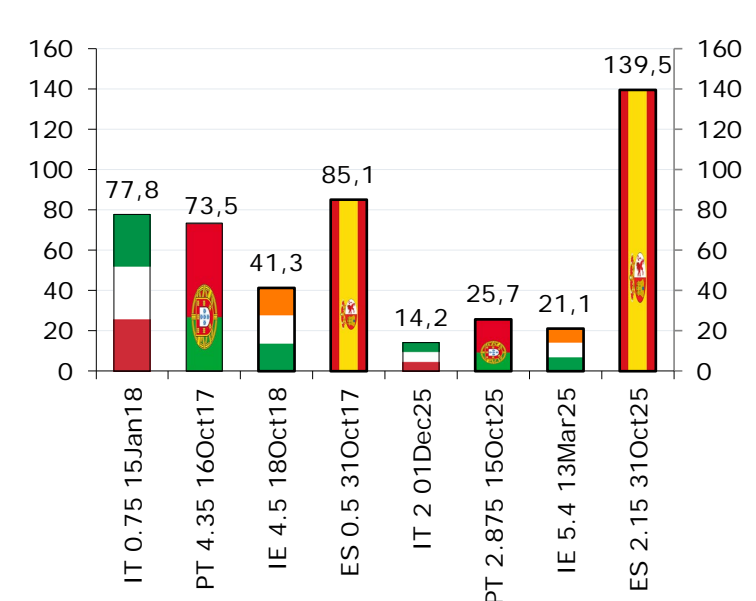
10Y non-AAA spreads against Germany, bp



10Y AAA/AA+ spreads to Germany, bp



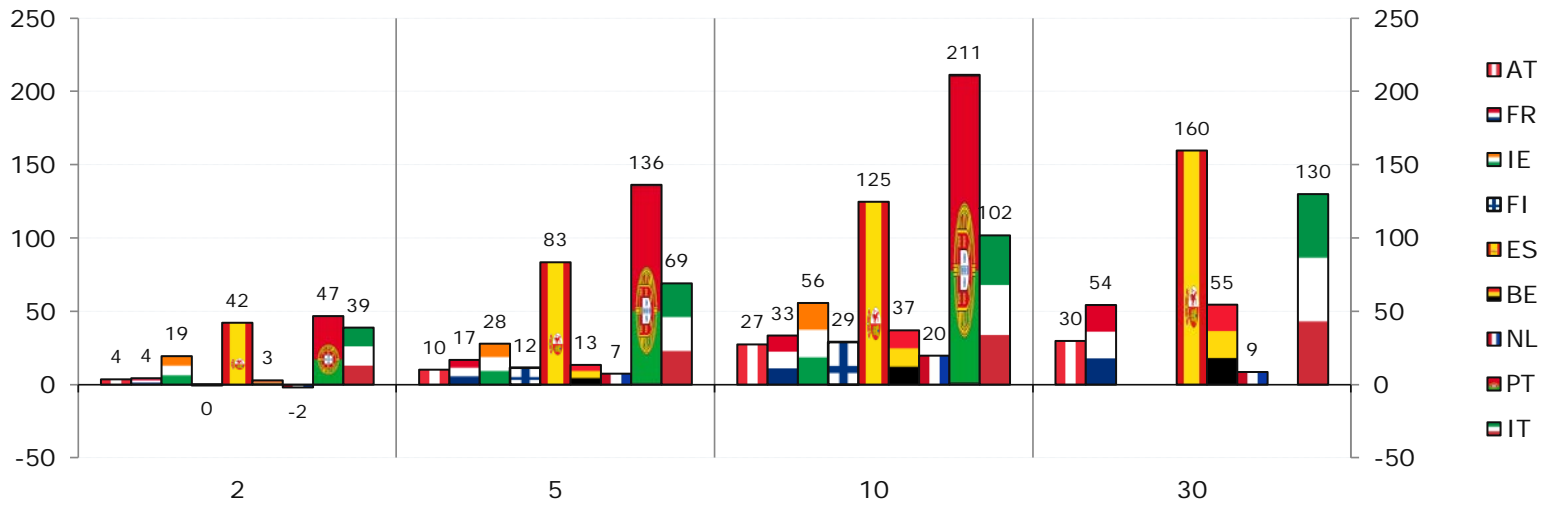
1Y B/E spread changes against Germany, bp



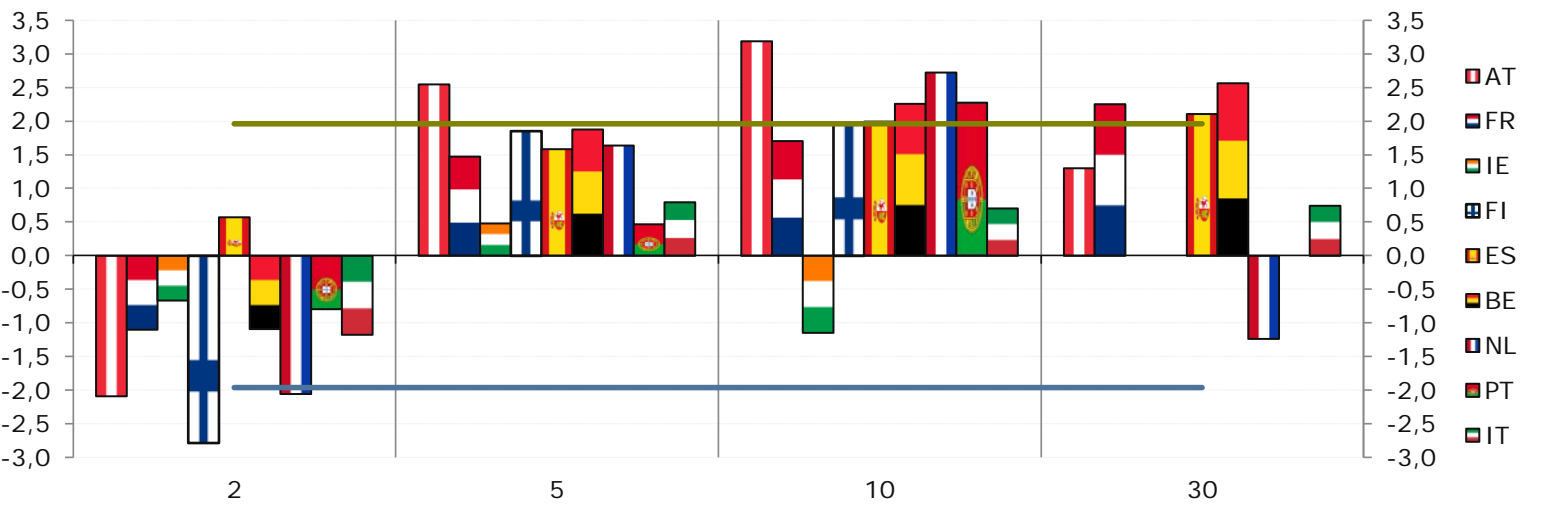


Country Relative Value

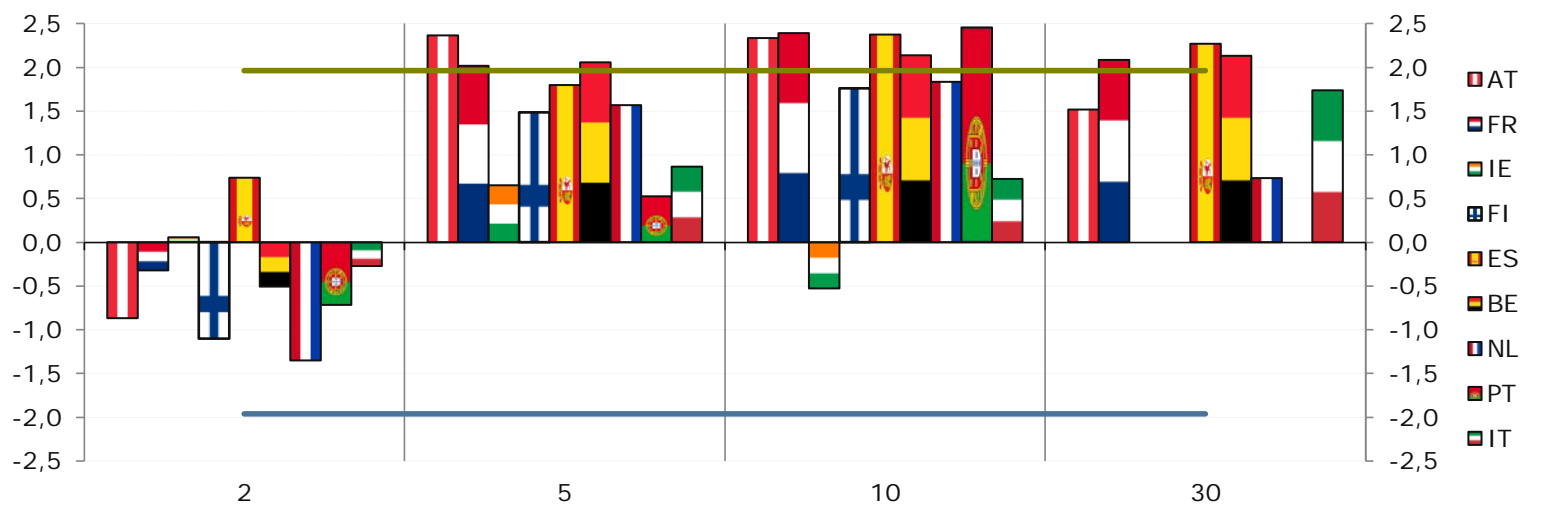
Benchmark spreads over the maturity-interpolated German par curve, bp



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	FI	15 sep 17	3,875	-0,1	-2,62	NL	15 apr 17	0,500	-30,3	-1,89
	AT	19 okt 18	1,150	7,6	2,78	GR	17 apr 19	4,750	767,6	1,78
5Y: Rich	DE	11 okt 19	0,250	-17,1	-3,04	IT	01 feb 20	4,500	31,3	-0,25
	FR	25 nov 19	0,500	16,0	2,63	EIB	15 apr 21	1,500	-17,1	4,30
7Y: Rich	IE	20 mar 23	3,900	40,1	-2,27	IE	20 mar 23	3,900	12,1	-1,61
	FI	15 apr 24	2,000	25,0	2,42	KfW	15 aug 23	2,125	-20,8	3,50
10Y: Rich	DE	15 aug 24	1,000	-32,0	-2,16	IE	13 mar 25	5,400	41,0	-0,60
	FI	04 jul 28	2,750	22,7	3,38	AT	15 mar 26	4,850	6,7	3,35
15Y: Rich	DE	04 jan 37	4,000	-57,0	-1,78	KfW	31 jul 35	1,375	-12,2	-0,67
	FI	15 apr 31	0,750	28,0	3,31	PT	15 apr 37	4,100	225,2	2,85
20Y: Rich	DE	15 aug 46	2,500	-65,7	-2,33	NL	15 jan 47	2,750	4,8	0,83
	FI	04 jul 42	2,625	8,9	3,76	PT	15 feb 45	4,100	240,3	2,95

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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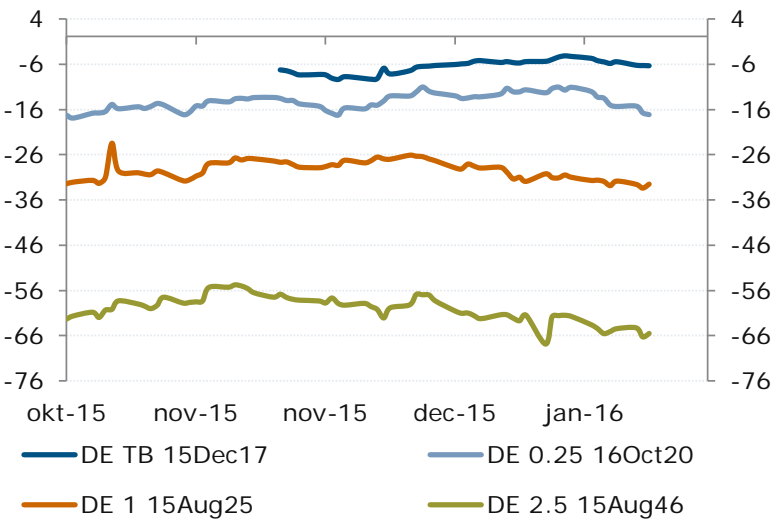
Moody's / S&P / Fitch

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

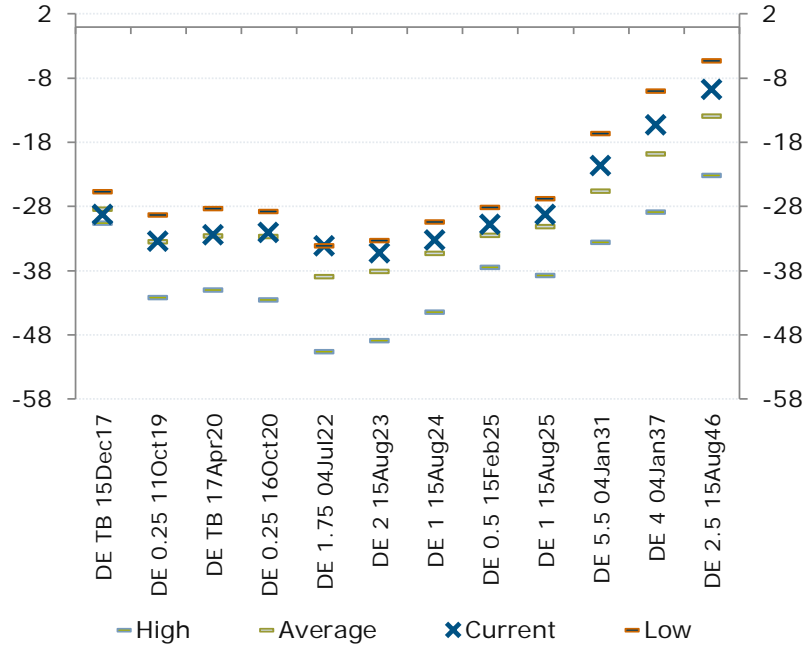
Germany

Benchmark Bonds				Spread vs. France				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
0,000	15 dec 17	13.0B	-0,383	-6,5	-6,9	0,31	-1,4	-29,2	-28,4	-0,68
0,250	11 okt 19	16.0B	-0,269	-17,1	-13,9	-3,04	0,2	-33,5	-33,5	0,02
0,000	17 apr 20	20.0B	-0,197	-17,2	-13,9	-2,49	-0,1	-32,5	-32,6	0,07
0,250	16 okt 20	19.0B	-0,128	-17,3	-14,5	-1,86	-1,1	-32,0	-32,7	0,45
1,750	04 jul 22	24.0B	0,075	-24,3	-24,3	-0,01	0,4	-34,1	-39,0	2,45
2,000	15 aug 23	18.0B	0,208	-29,7	-27,7	-1,75	-0,2	-35,2	-38,1	1,37
1,000	15 aug 24	18.0B	0,360	-32,0	-28,6	-2,16	0,7	-33,3	-35,3	1,03
0,500	15 feb 25	23.0B	0,451	-31,5	-27,5	-2,12	0,6	-30,8	-32,5	0,86
1,000	15 aug 25	23.0B	0,514	-32,6	-29,3	-1,78	0,7	-29,3	-31,2	0,91
5,500	04 jan 31	17.0B	0,928	-48,4	-44,8	-1,56	0,3	-21,6	-25,7	1,15
4,000	04 jan 37	23.0B	1,199	-57,0	-53,0	-1,78	0,2	-15,3	-19,8	1,24
2,500	15 aug 46	13.0B	1,329	-65,7	-60,1	-2,33	0,3	-9,8	-14,0	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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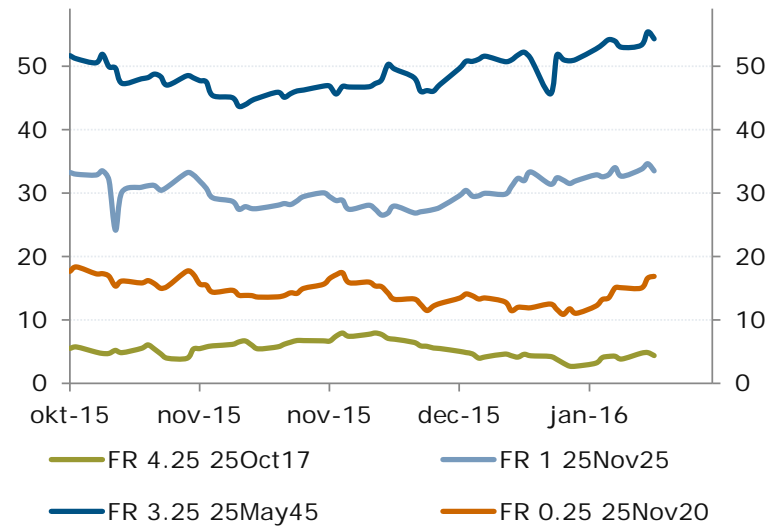
Moody's / S&P / Fitch

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

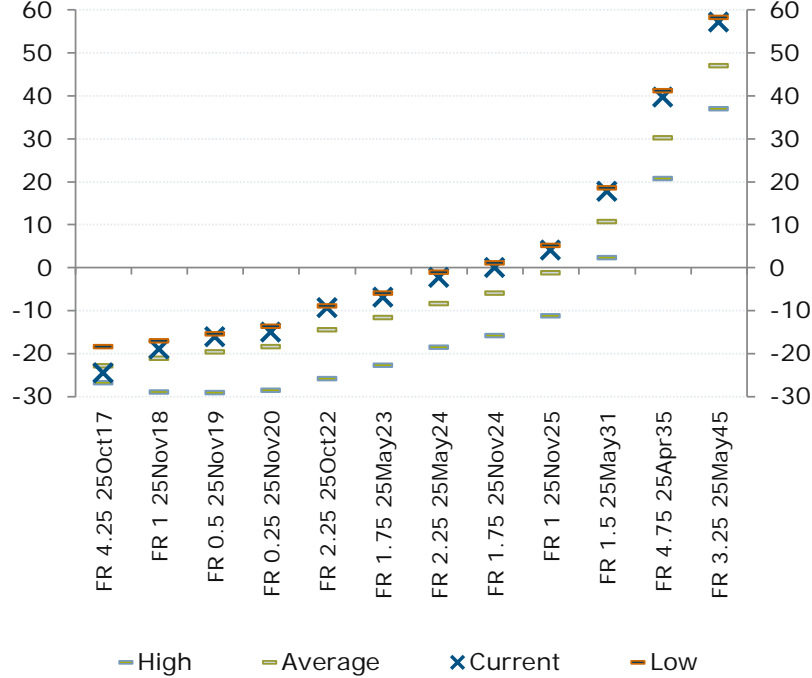
France

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
4,250	25 okt 17	34.75B	-0,338	4,4	5,5	-1,06	2,2	-24,6	-22,9	-0,89
1,000	25 nov 18	22.01B	-0,223	12,0	9,7	2,11	-0,3	-19,1	-21,2	1,35
0,500	25 nov 19	26.98B	-0,083	16,0	13,2	2,63	-0,9	-16,2	-19,7	2,36
0,250	25 nov 20	11.99B	0,057	16,9	14,6	1,50	-0,5	-15,1	-18,5	1,96
2,250	25 okt 22	26.99B	0,349	22,9	21,4	1,59	0,2	-9,4	-14,6	3,16
1,750	25 maj 23	32.97B	0,455	25,8	24,2	1,89	0,0	-6,9	-11,7	2,69
2,250	25 maj 24	30.55B	0,617	27,9	24,2	2,09	-1,8	-2,3	-8,5	2,36
1,750	25 nov 24	30.99B	0,710	29,7	25,9	2,14	-1,1	0,0	-6,0	2,43
1,000	25 nov 25	19.99B	0,885	33,5	30,0	1,70	-0,7	4,0	-1,3	2,53
1,500	25 maj 31	9.44B	1,448	42,8	38,5	1,63	0,6	17,6	10,7	2,61
4,750	25 apr 35	25.03B	1,594	37,6	32,2	1,97	0,1	39,7	30,1	2,47
3,250	25 maj 45	17.01B	1,902	54,3	48,7	2,19	-0,2	57,1	46,9	2,37

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

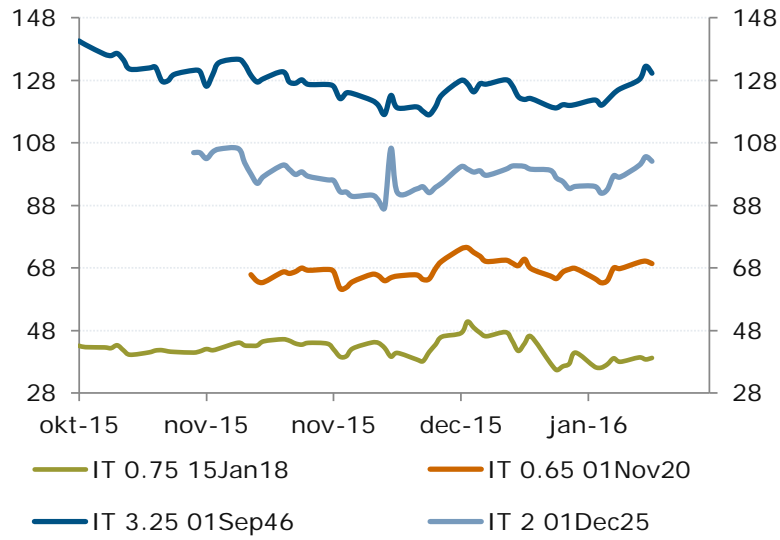
Rating	Baa2/BBB-/BBB+
Moody's / S&P / Fitch	

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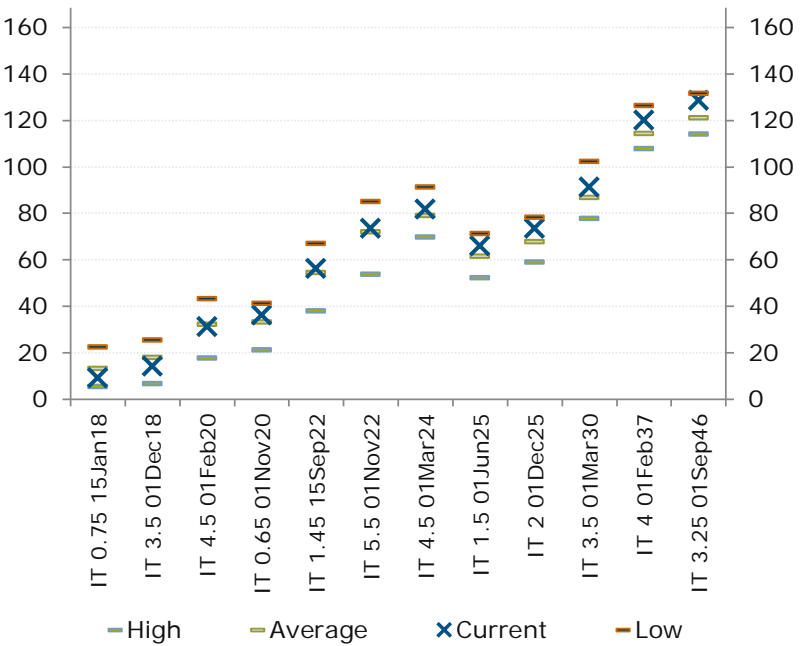
Italy

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
0,750	15 jan 18	15.46B	0,008	38,9	41,7	-1,13	1,2	9,2	13,3	-1,36
3,500	01 dec 18	19.01B	0,095	43,8	47,2	-1,21	0,3	14,2	17,9	-1,04
4,500	01 feb 20	22.99B	0,368	59,0	60,3	-0,40	1,3	31,3	32,1	-0,25
0,650	01 nov 20	8.94B	0,570	69,1	66,7	0,94	2,1	36,1	33,1	1,02
1,450	15 sep 22	13.94B	1,013	90,6	92,5	-0,39	2,2	56,2	54,5	0,40
5,500	01 nov 22	21.01B	1,050	92,7	94,8	-0,51	0,6	73,3	71,8	0,34
4,500	01 mar 24	23.71B	1,317	101,4	101,1	0,07	-1,2	81,6	79,0	0,70
1,500	01 jun 25	19.99B	1,467	98,2	95,9	0,52	-0,4	65,9	61,5	1,34
2,000	01 dec 25	14.88B	1,571	101,8	97,4	1,15	-0,1	73,4	67,7	1,80
3,500	01 mar 30	19.99B	1,991	104,2	102,9	0,24	-0,7	91,2	86,6	1,09
4,000	01 feb 37	26.01B	2,442	118,1	115,5	0,62	0,4	120,0	114,3	1,79
3,250	01 sep 46	13.24B	2,664	130,0	126,4	0,81	-0,4	128,6	121,0	2,39

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

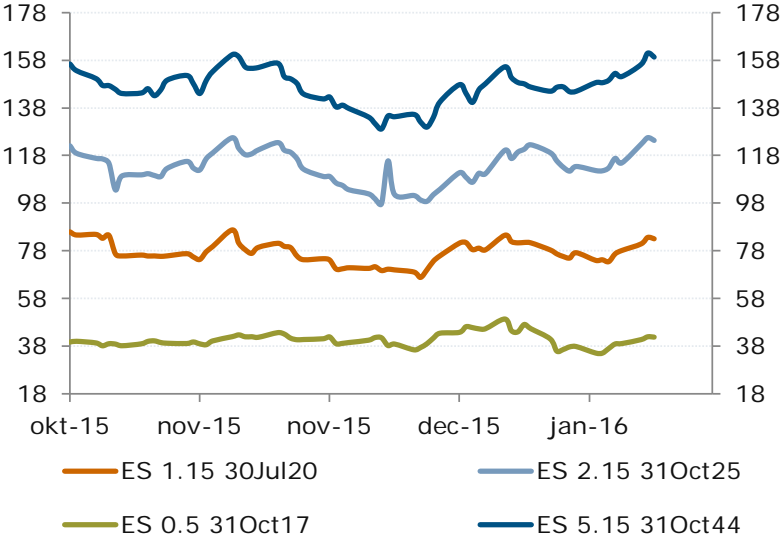
Rating	Baa2/BBB/BBB+
Moody's / S&P / Fitch	

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

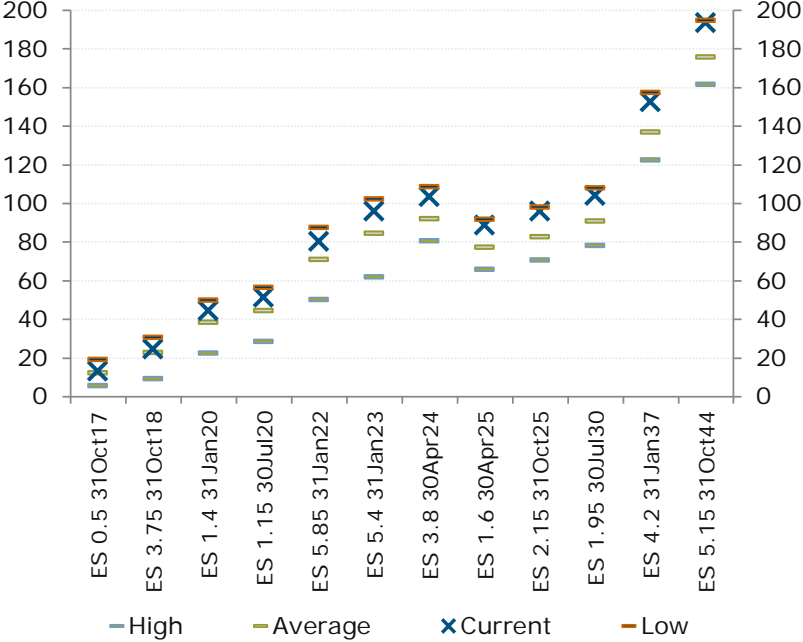
Spain

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
0,500	31 okt 17	16.99B	0,041	42,2	41,0	0,55	-0,1	13,1	12,4	0,30
3,750	31 okt 18	20.01B	0,184	53,0	50,8	0,73	1,0	24,7	22,7	0,61
1,400	31 jan 20	21.91B	0,540	76,3	70,7	1,42	3,8	44,5	38,4	1,54
1,150	30 jul 20	14.73B	0,679	83,5	77,4	1,62	-1,9	51,4	44,6	1,82
5,850	31 jan 22	22.01B	1,009	98,0	92,6	1,25	3,8	80,4	71,1	1,83
5,400	31 jan 23	19.01B	1,279	112,5	105,2	1,51	3,4	96,0	84,6	2,04
3,800	30 apr 24	21.99B	1,576	124,8	115,9	1,80	-0,4	103,4	92,0	2,23
1,600	30 apr 25	19.09B	1,695	122,2	112,1	1,79	-0,2	88,8	77,3	2,30
2,150	31 okt 25	20.96B	1,789	124,8	112,9	1,98	-0,7	96,0	82,9	2,48
1,950	30 jul 30	10.81B	2,333	136,0	124,3	1,68	-0,1	104,1	90,9	2,30
4,200	31 jan 37	16.37B	2,744	148,3	135,4	2,04	-0,1	152,5	137,0	2,36
5,150	31 okt 44	11.23B	2,954	159,7	146,7	2,08	0,0	193,5	175,7	2,52

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

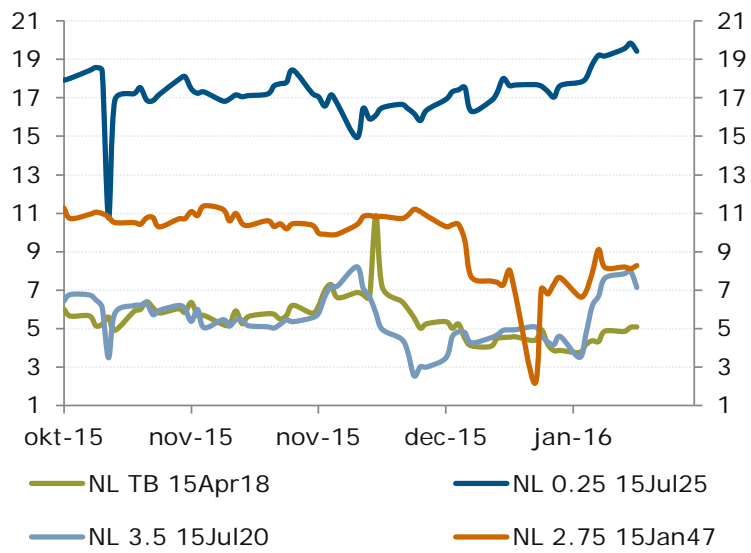
Rating	Aaa/AA+/AAA
Moody's / S&P / Fitch	

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

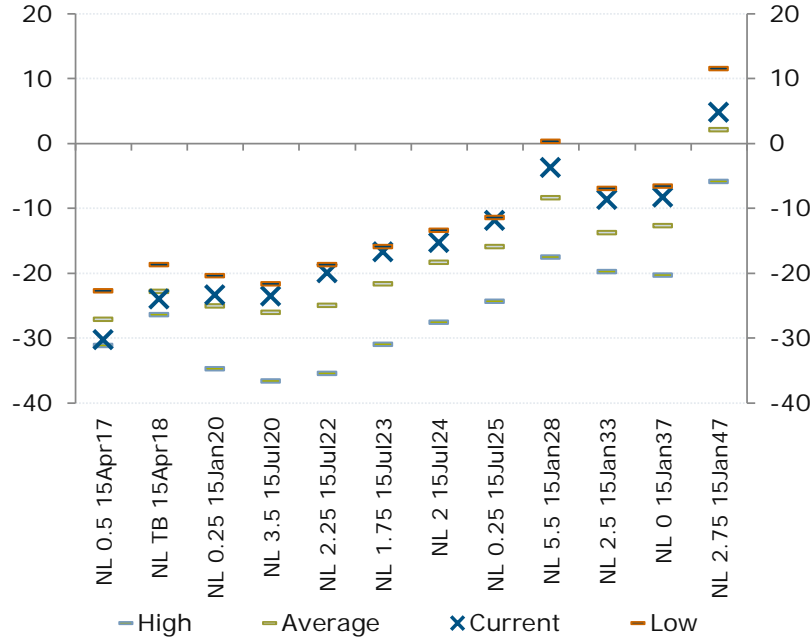
Netherlands

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
0,500	15 apr 17	13.03B	-0,401	-1,9	0,6	-1,96	-7,3	-30,3	-27,2	-1,89
0,000	15 apr 18	15.99B	-0,316	5,4	5,9	-0,66	-0,7	-24,0	-22,8	-0,76
0,250	15 jan 20	15.84B	-0,138	9,0	7,7	1,11	-2,8	-23,4	-25,1	0,92
3,500	15 jul 20	15.02B	-0,086	7,5	5,9	1,61	-0,5	-23,6	-26,1	1,42
2,250	15 jul 22	15.01B	0,211	12,5	11,2	0,88	0,3	-20,0	-25,0	2,88
1,750	15 jul 23	15.63B	0,378	16,3	14,4	1,73	1,0	-16,8	-21,7	2,76
2,000	15 jul 24	15.32B	0,512	15,3	14,4	1,28	-0,6	-15,3	-18,4	1,51
0,250	15 jul 25	15.01B	0,699	19,8	17,6	2,60	0,2	-11,9	-15,9	2,03
5,500	15 jan 28	13.02B	0,882	10,2	9,7	0,29	-1,7	-3,8	-8,4	1,64
2,500	15 jan 33	12.99B	1,205	9,0	6,8	1,94	0,1	-8,7	-13,8	1,84
0,000	15 jan 37	0.0B	1,426	16,6	14,4	1,58	-0,9	-8,3	-12,7	1,46
2,750	15 jan 47	10.99B	1,451	8,6	10,1	-1,17	-0,2	4,8	2,1	0,83

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

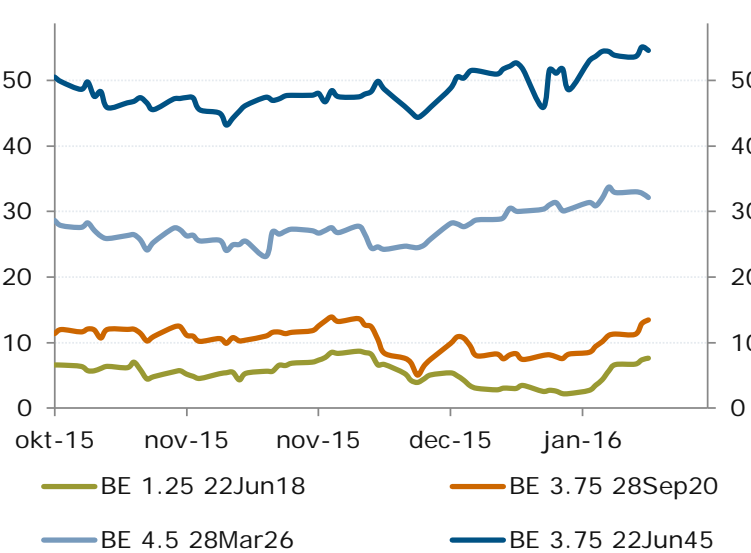
Rating	Aa3/AA/AA
Moody's / S&P / Fitch	

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

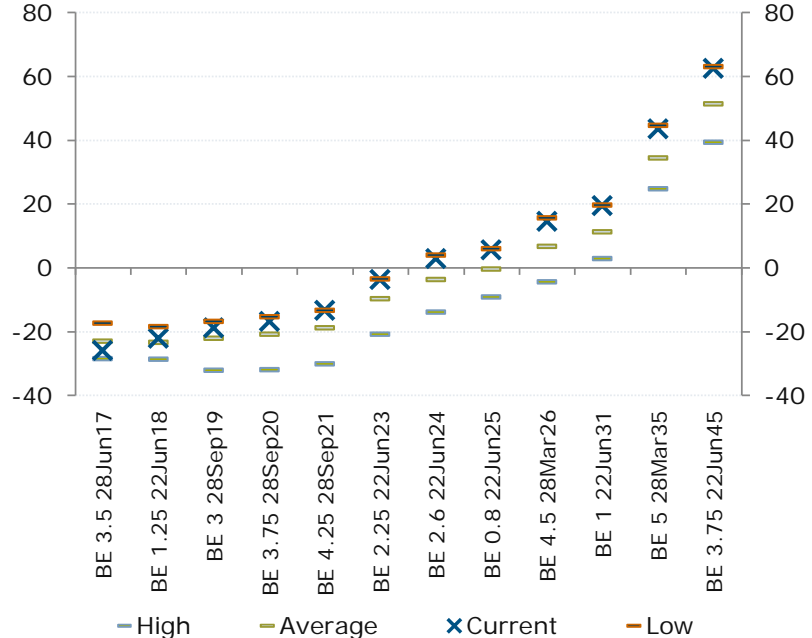
Belgium

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
3,500	28 jun 17	13.34B	-0,353	2,9	4,5	-1,05	-3,0	-25,8	-23,1	-1,13
1,250	22 jun 18	11.01B	-0,286	7,6	5,5	1,60	-0,7	-22,1	-23,4	0,63
3,000	28 sep 19	12.01B	-0,132	12,9	10,2	1,75	1,3	-18,7	-22,0	1,52
3,750	28 sep 20	19.01B	0,001	13,5	10,6	1,82	1,3	-16,8	-20,9	1,88
4,250	28 sep 21	15.98B	0,156	16,7	14,7	1,25	0,4	-13,3	-18,7	2,64
2,250	22 jun 23	13.99B	0,488	28,1	25,2	1,77	0,7	-3,7	-9,7	2,49
2,600	22 jun 24	15.85B	0,668	31,9	27,9	2,32	-2,2	2,9	-3,6	2,53
0,800	22 jun 25	17.99B	0,863	37,0	32,7	2,16	-1,3	5,7	-0,5	2,23
4,500	28 mar 26	9.02B	0,911	32,1	27,4	2,27	-1,4	14,6	6,8	2,18
1,000	22 jun 31	4.0B	1,508	48,4	42,3	2,03	1,0	19,6	11,4	2,42
5,000	28 mar 35	19.01B	1,611	39,5	34,6	1,91	0,4	43,6	34,5	2,23
3,750	22 jun 45	8.01B	1,904	54,6	48,5	2,45	-0,4	62,5	51,3	2,37

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

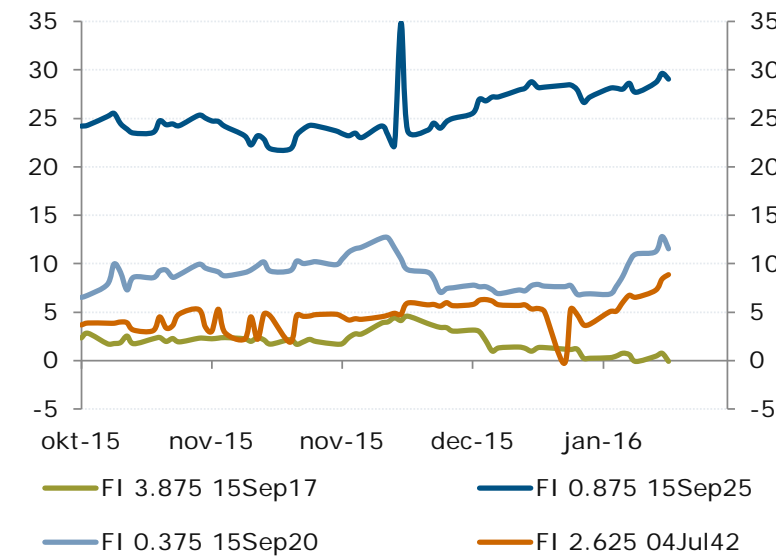
Rating	Aaa/AA+/AAA
Moody's / S&P / Fitch	

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

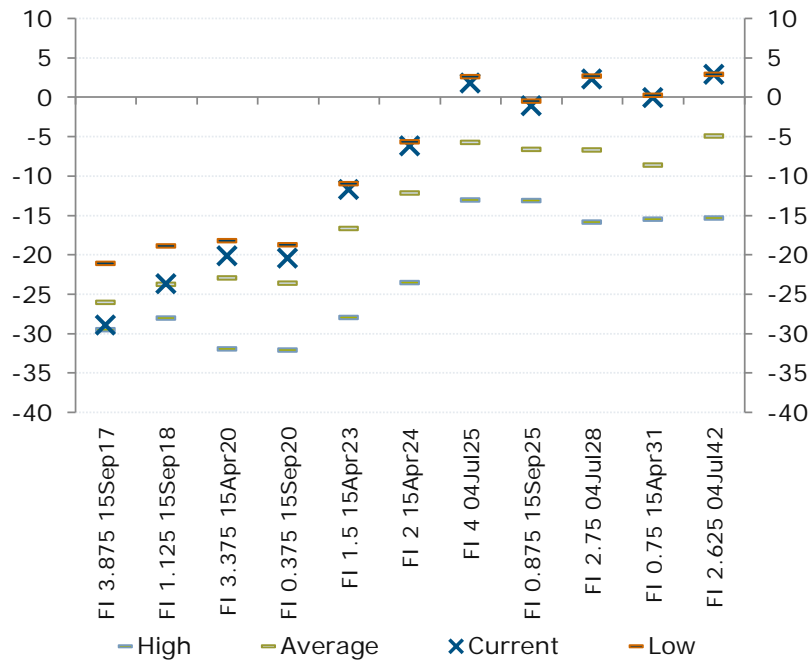
Finland

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
3,875	15 sep 17	6.0B	-0,382	-0,1	2,1	-2,62	-2,8	-28,9	-26,0	-1,61
1,125	15 sep 18	5.03B	-0,286	6,6	6,1	0,53	-0,5	-23,7	-23,7	0,01
3,375	15 apr 20	6.,5B	-0,085	11,0	9,1	1,55	-1,5	-20,2	-23,0	1,22
0,375	15 sep 20	5.03B	-0,023	11,5	9,2	1,80	-1,6	-20,4	-23,6	1,38
1,500	15 apr 23	5.0B	0,399	21,7	20,0	2,16	1,0	-11,7	-16,7	2,77
2,000	15 apr 24	5.0B	0,571	25,0	21,4	2,42	-0,4	-6,2	-12,1	2,60
4,000	04 jul 25	6.03B	0,737	24,0	19,1	2,51	-0,3	1,8	-5,7	2,51
0,875	15 sep 25	4.03B	0,815	29,0	25,4	1,84	0,1	-1,1	-6,6	2,03
2,750	04 jul 28	5.0B	1,048	22,7	17,6	3,38	0,6	2,3	-6,7	2,48
0,750	15 apr 31	3.,5B	1,294	28,0	21,5	3,31	0,2	0,0	-8,6	2,44
2,625	04 jul 42	4.03B	1,435	8,9	4,8	3,76	-0,1	2,9	-4,9	1,96

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

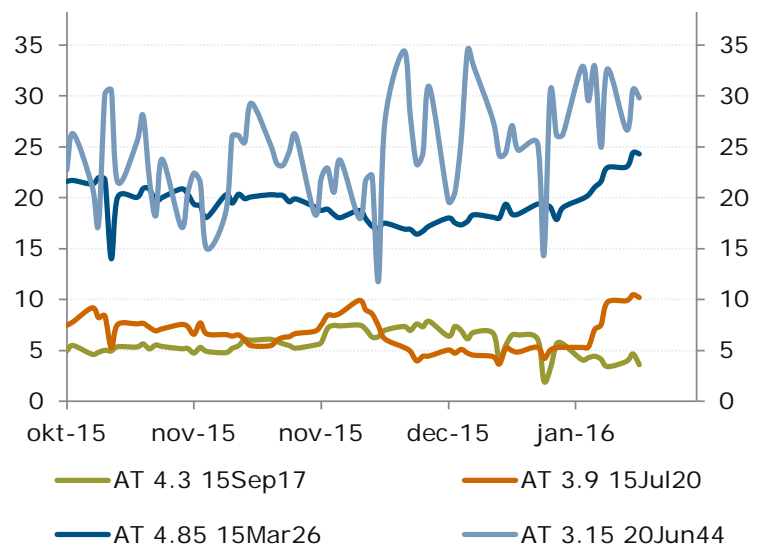
Rating	Aaa/AA+/AA+
Moody's / S&P / Fitch	

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

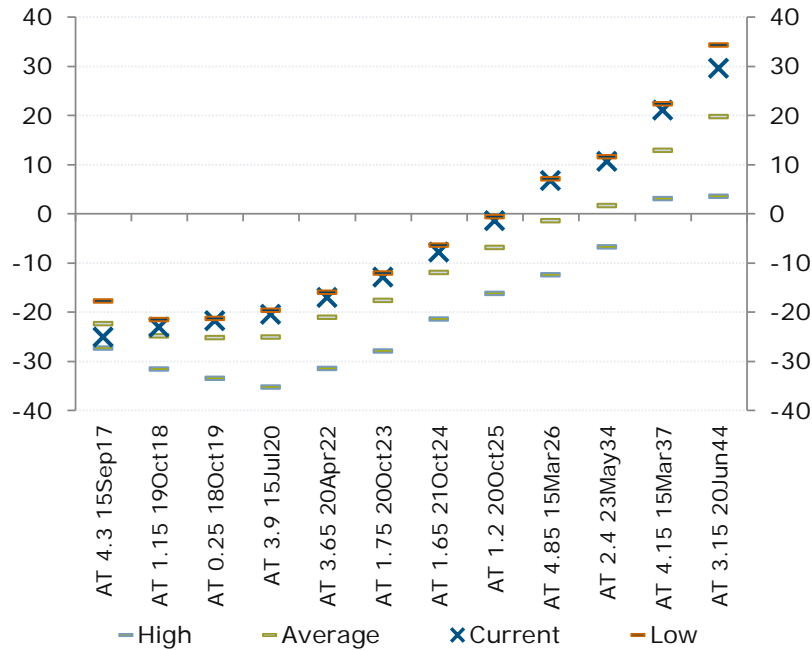
Austria

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
4,300	15 sep 17	7.79B	-0,346	3,6	5,6	-2,02	1,7	-25,1	-22,4	-1,44
1,150	19 okt 18	7.02B	-0,272	7,6	5,5	2,78	1,2	-23,1	-24,9	1,06
0,250	18 okt 19	7.95B	-0,150	10,5	7,6	2,14	-1,2	-21,8	-25,2	1,68
3,900	15 jul 20	13.01B	-0,059	10,2	6,7	2,43	-1,8	-20,5	-25,1	2,17
3,650	20 apr 22	8.71B	0,197	14,0	13,7	0,16	-0,7	-17,1	-21,1	1,75
1,750	20 okt 23	9.99B	0,449	19,7	17,9	1,71	-1,1	-12,9	-17,6	2,59
1,650	21 okt 24	10.35B	0,624	22,5	20,5	1,83	-1,8	-7,8	-11,9	2,12
1,200	20 okt 25	9.02B	0,811	27,4	23,8	2,98	-0,9	-1,5	-6,9	2,50
4,850	15 mar 26	8.01B	0,829	24,3	19,4	3,23	-0,4	6,7	-1,4	3,35
2,400	23 maj 34	5.19B	1,440	25,4	19,4	3,04	0,5	10,6	1,6	2,34
4,150	15 mar 37	12.22B	1,497	23,3	19,0	3,22	-0,2	21,0	12,9	1,88
3,150	20 jun 44	6.72B	1,653	29,8	24,6	1,25	-0,2	29,5	19,7	1,56

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

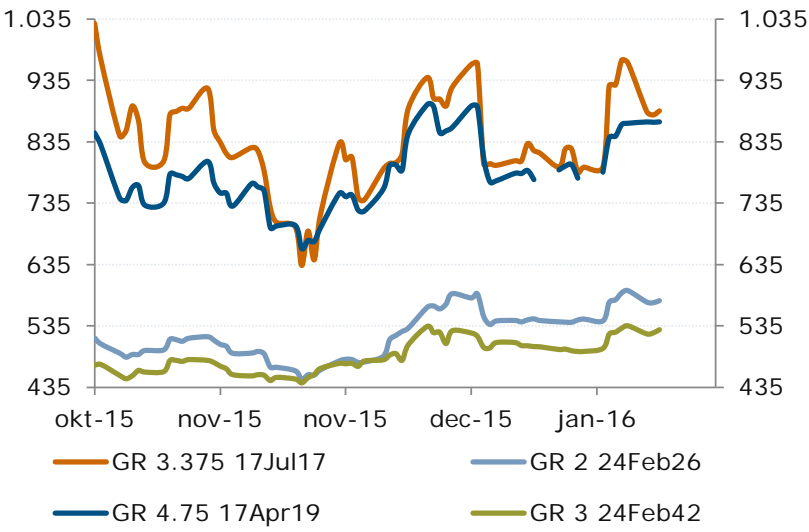
Source: European Commission, Winter 2015 forecast

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

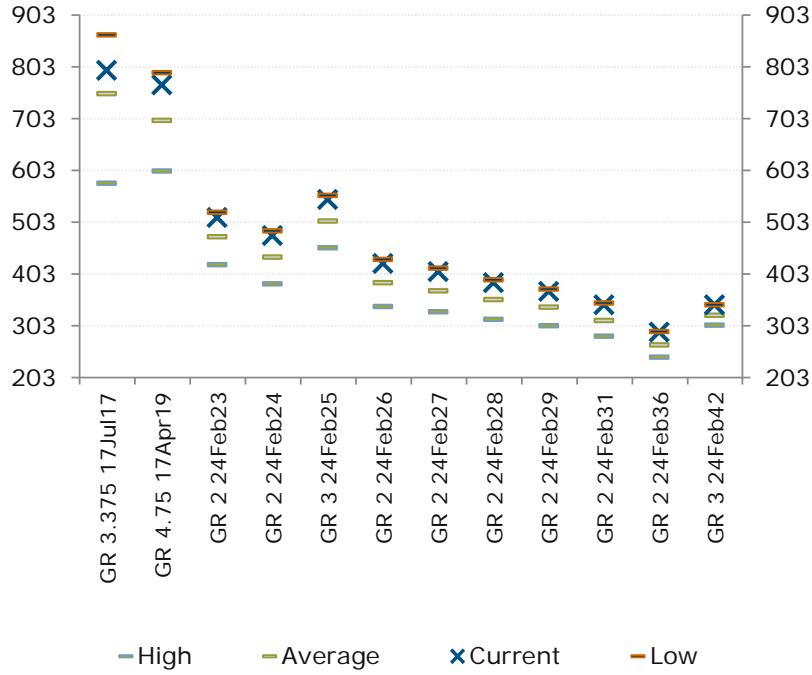
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
3,375	17 jul 17	2.02B	8,468	885,0	834,2	0,80	33,3	796,3	751,2	0,85
4,750	17 apr 19	4.02B	8,362	867,1	782,9	1,76	2,0	767,6	699,7	1,78
2,000	24 feb 23	1.04B	6,794	663,0	613,3	1,48	6,8	511,4	474,6	1,63
2,000	24 feb 24	1.25B	6,598	629,8	570,5	1,67	7,6	476,7	435,4	1,78
3,000	24 feb 25	1.84B	7,693	724,4	660,7	1,60	10,1	546,5	505,5	1,71
2,000	24 feb 26	1.37B	6,336	575,6	519,2	1,59	8,6	423,6	385,9	1,68
2,000	24 feb 27	1.21B	6,342	565,6	509,4	1,64	11,5	407,6	371,0	1,73
2,000	24 feb 28	1.84B	6,229	543,9	492,4	1,66	13,9	386,7	353,3	1,76
2,000	24 feb 29	1.48B	6,145	526,9	479,2	1,55	12,0	368,8	338,6	1,64
2,000	24 feb 31	1.29B	6,078	507,2	456,7	1,64	15,2	343,6	313,7	1,77
2,000	24 feb 36	1.33B	5,726	448,7	402,2	1,77	16,1	291,2	265,8	1,93
3,000	24 feb 42	1.05B	6,627	528,2	485,3	1,77	20,1	343,6	323,2	2,03

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

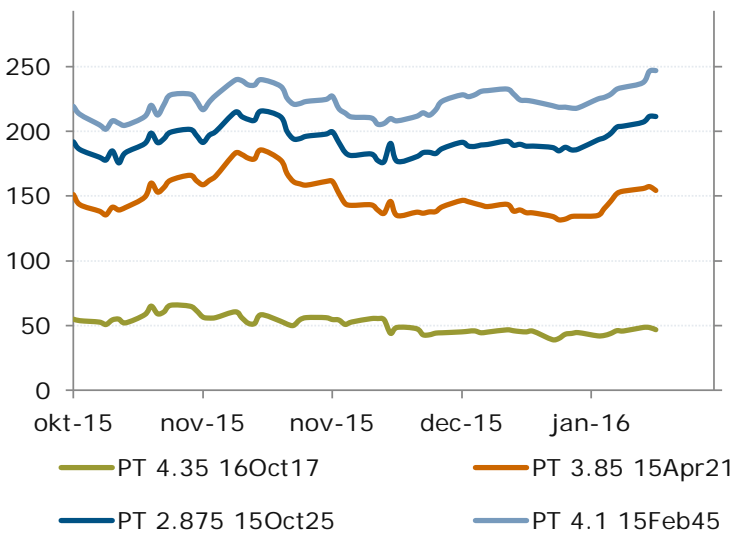
Source: European Commission, Winter 2015 forecast

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

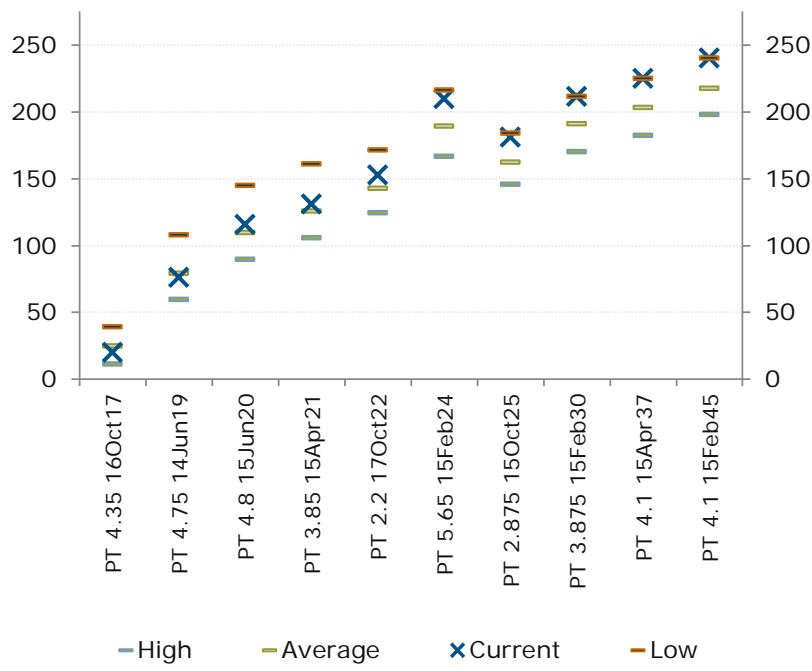
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
4,350	16 okt 17	8.99B	0,086	46,8	51,0	-0,77	-25,3	19,8	24,9	-0,87
4,750	14 jun 19	10.75B	0,718	101,1	103,8	-0,31	1,4	76,3	79,3	-0,30
4,800	15 jun 20	10.99B	1,191	136,3	131,2	0,46	-1,8	115,6	109,6	0,49
3,850	15 apr 21	9.55B	1,479	154,3	150,9	0,28	-1,2	131,2	125,7	0,44
2,200	17 okt 22	3.0B	2,003	188,6	181,9	0,61	0,3	152,8	142,9	0,95
5,650	15 feb 24	12.02B	2,456	215,9	198,4	2,10	-0,1	209,7	189,5	2,15
2,875	15 okt 25	10.52B	2,649	211,4	193,0	2,15	0,9	181,0	162,3	2,36
3,875	15 feb 30	4.05B	3,245	229,9	210,2	2,25	1,6	211,5	191,2	2,57
4,100	15 apr 37	8.02B	3,617	235,1	212,1	2,71	0,2	225,2	203,2	2,85
4,100	15 feb 45	2,5B	3,826	246,8	222,4	2,67	-0,1	240,3	217,5	2,95

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

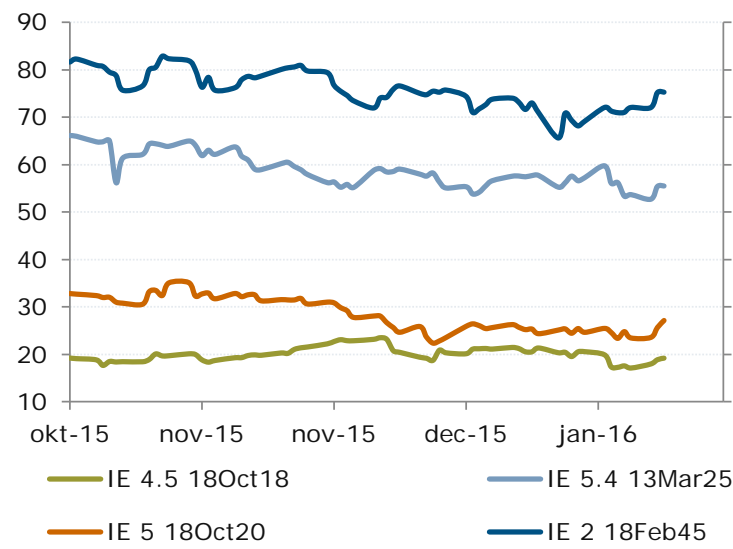
Rating	Baa1/A/A-
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Moody's / S&P / Fitch

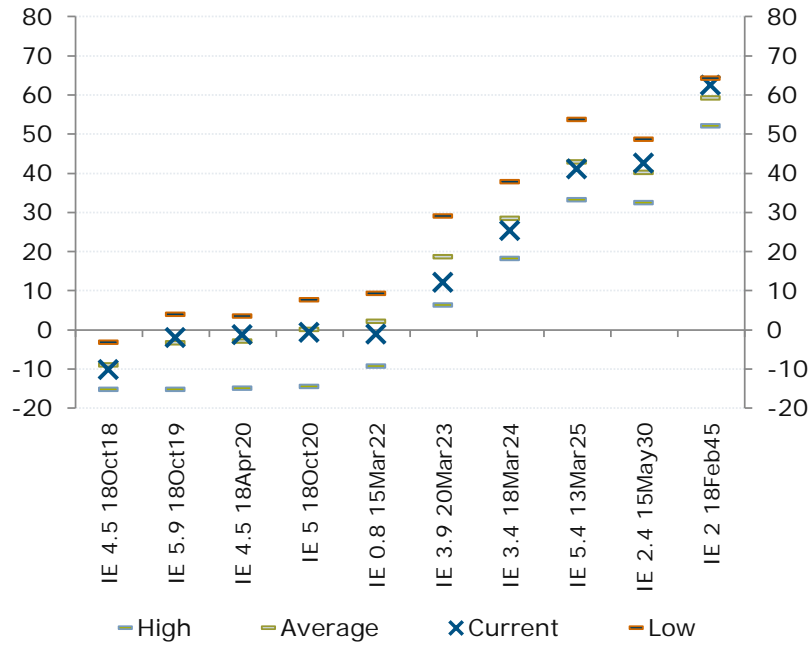
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
4,500	18 okt 18	9.58B	-0,154	19,4	20,3	-0,66	0,2	-10,2	-9,0	-0,50
5,900	18 okt 19	6.58B	0,016	27,1	26,4	0,46	0,7	-2,0	-3,3	0,57
4,500	18 apr 20	11.77B	0,086	27,9	27,1	0,47	1,3	-1,3	-3,0	0,58
5,000	18 okt 20	8.99B	0,148	27,4	28,9	-0,44	1,1	-0,6	0,1	-0,19
0,800	15 mar 22	4.25B	0,369	32,5	39,3	-1,74	-0,8	-1,2	2,2	-0,96
3,900	20 mar 23	5.95B	0,573	40,1	49,1	-2,27	0,9	12,1	18,6	-1,61
3,400	18 mar 24	8.01B	0,828	51,8	56,9	-1,72	-0,6	25,3	28,4	-1,06
5,400	13 mar 25	11.35B	1,013	55,7	59,1	-1,12	-0,2	41,0	42,9	-0,60
2,400	15 maj 30	7.78B	1,591	63,1	63,8	-0,18	0,9	42,5	40,1	0,97
2,000	18 feb 45	5.05B	2,112	75,5	76,2	-0,23	0,4	62,5	59,1	1,46

Spreads against the German curve, bp



Asset swap term structure, bp



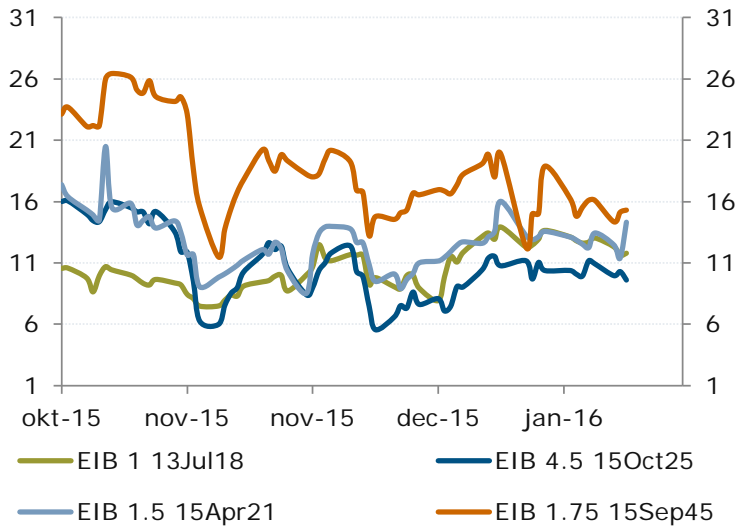


European Investment Bank (EIB)

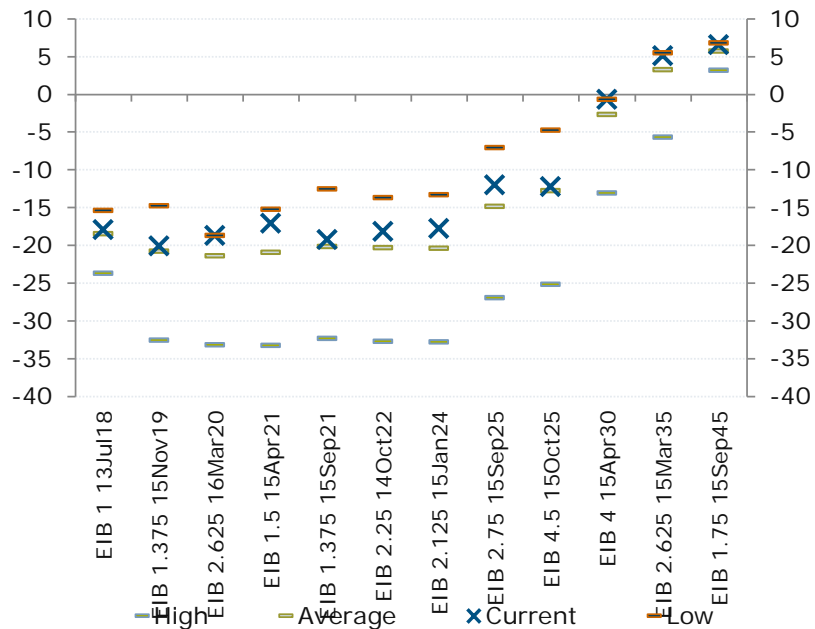
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
1,000	13 jul 18	5.0B	-0,240	12,0	10,6	0,95	-0,5	-17,9	-18,5	0,39
1,375	15 nov 19	3.0B	-0,128	11,9	11,9	-0,03	-0,7	-20,1	-20,8	0,62
2,625	16 mar 20	3,4B	-0,079	12,7	10,7	1,24	0,2	-18,7	-21,5	2,84
1,500	15 apr 21	5.0B	0,081	14,5	12,7	1,11	3,2	-17,1	-21,0	4,30
1,375	15 sep 21	4.02B	0,116	13,1	15,1	-1,01	-2,2	-19,3	-20,2	0,74
2,250	14 okt 22	5.75B	0,261	14,5	15,9	-0,85	0,8	-18,2	-20,4	2,57
2,125	15 jan 24	5.0B	0,426	14,2	13,9	0,14	-0,4	-17,8	-20,5	2,62
2,750	15 sep 25	5.35B	0,659	13,5	12,6	0,39	0,6	-12,0	-14,9	2,64
4,500	15 okt 25	7.75B	0,633	9,8	10,9	-0,49	-1,3	-12,3	-12,8	0,61
4,000	15 apr 30	6,5B	1,096	14,0	15,1	-0,32	0,4	-0,7	-2,7	2,27
2,625	15 mar 35	1,7B	1,394	17,9	19,0	-0,35	-0,3	5,1	3,2	2,14
1,750	15 sep 45	1,3B	1,515	15,5	18,7	-1,02	-0,1	6,5	5,7	1,58

Spreads against the German curve, bp



Asset swap term structure, bp

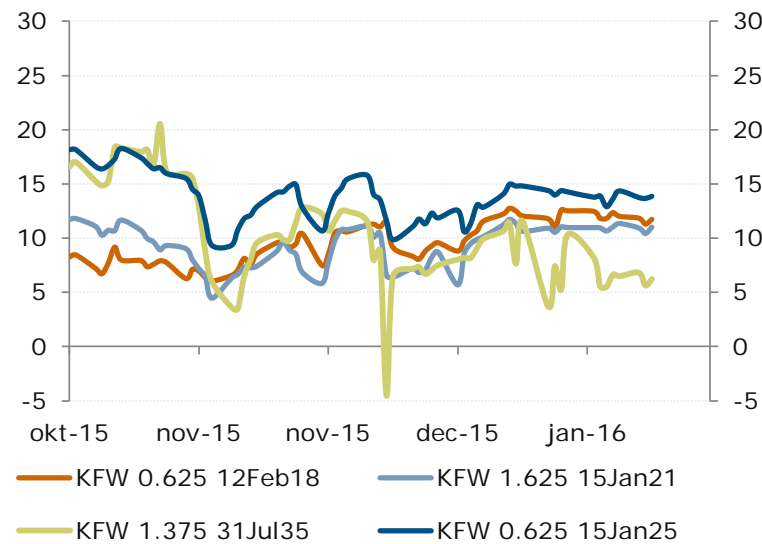


Kreditanstalt für Wiederaufbau (KfW)

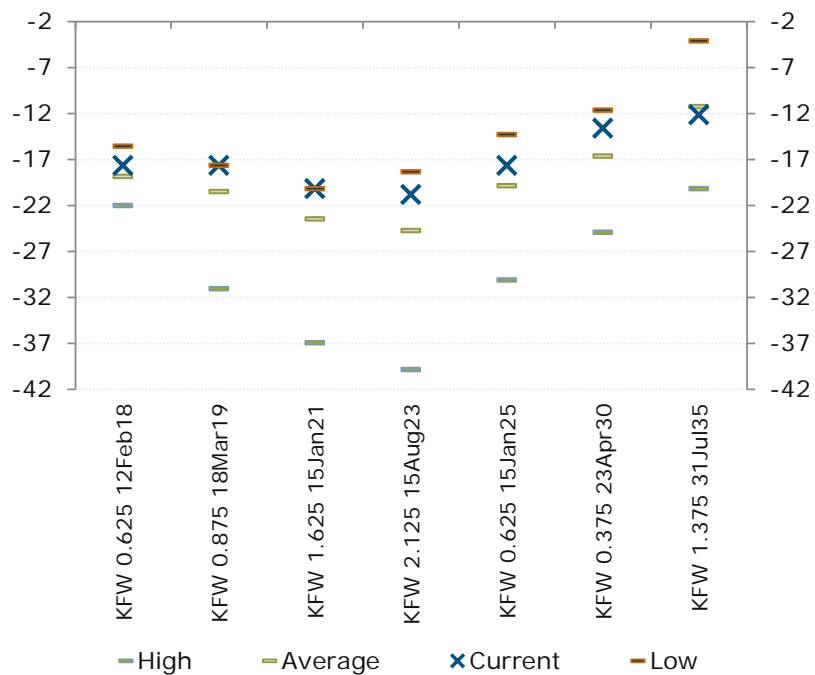
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	13-jan	60D Avg.	Z-score	Δ B/E Spd 1Y	13-jan	60D Avg.	Z-score
0,625	12 feb 18	2.0B	-0,260	11,7	9,5	1,30	1,2	-17,7	-18,9	0,75
0,875	18 mar 19	5.0B	-0,175	14,3	11,0	1,50	0,2	-17,7	-20,5	1,48
1,625	15 jan 21	5.0B	0,017	11,0	9,2	1,09	-0,2	-20,2	-23,5	2,23
2,125	15 aug 23	3.0B	0,344	11,7	10,7	0,53	0,2	-20,8	-24,8	3,50
0,625	15 jan 25	3.0B	0,573	13,9	13,8	0,05	-0,5	-17,7	-19,9	3,03
0,375	23 apr 30	2.0B	1,101	14,5	14,3	0,06	1,8	-13,7	-16,7	2,64
1,375	31 jul 35	1.0B	1,287	6,2	10,0	-1,00	0,1	-12,2	-11,3	-0,67

Spreads against the German curve, bp



Asset swap term structure, bp



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