

Euro Rates Update

Nordea Research, 25 January 2016

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US Treasury Yields				
	2Y	5Y	10Y	30Y
	0.89	1.51	2.10	2.88
Δ 1D	7.3	10.3	10.7	10.2
Δ 1W	-1.4	0.9	1.4	-0.2

German Benchmark Yields				
	2Y	5Y	10Y	30Y
	-0.44	-0.22	0.50	1.28
Δ 1D	0.3	1.3	4.6	7.8
Δ 1W	-5.0	-8.2	-0.2	-4.3

German Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-21.7	-71.9	-93.6	-78.6
Δ 1D	1.0	3.3	4.3	3.3
Δ 1W	-3.2	8.0	4.7	-4.1

EUR Swap Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-28.3	-65.5	-93.8	-63.3
Δ 1D	1.1	2.8	3.9	1.9
Δ 1W	-2.4	1.9	-0.5	2.8

German Asset Swap Levels				
	2Y	5Y	10Y	30Y
	-29.6	-33.0	-31.0	-12.0
Δ 1D	0.7	0.1	0.3	1.9
Δ 1W	0.2	-0.1	-0.3	-1.0

10Y Benchmark Yields				
	Yield	Δ 1D	Spread	Δ 1D
GER	0.496	4.6	-	-
FRA	0.807	4.0	34.1	-0.4
ITA	1.578	2.7	111.0	-1.7
ESP	1.736	3.1	128.0	-1.3
BEL	0.784	3.6	37.8	-0.8
HOL	0.609	4.0	19.4	-0.3
AUT	0.728	3.9	27.6	-0.5
GRE	8.644	-60.6	828.3	-64.8
POR	2.818	-3.7	236.8	-8.1
FIN	0.747	4.3	30.9	-0.1
IRL	0.933	3.1	56.6	-1.2

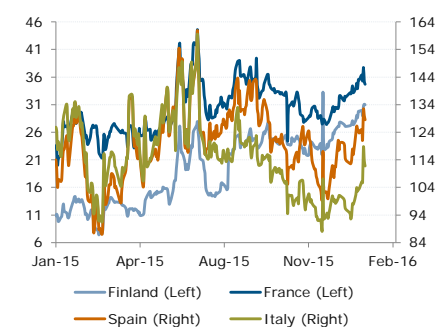
Spread = Maturity interpolated spread to German government par yield curve

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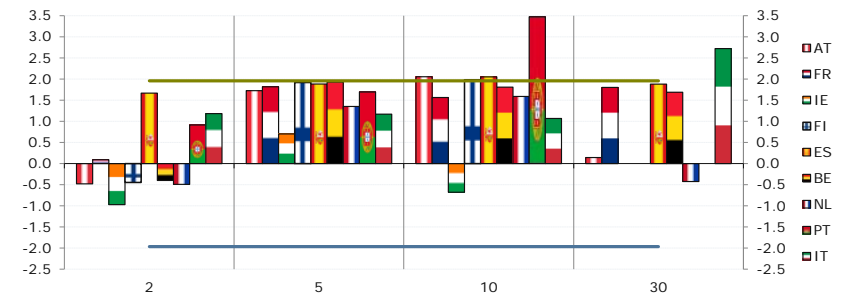
German & US 10-year benchmark yields, %



10 year spreads against Germany, bp



Z-scores of benchmark vs. Germany



Upcoming Issuance (source: Bloomberg)						
Date	Country	Coupon	Maturity	Amount (EURbn)		
25 Jan	LN	0.70%	2020			
26 Jan	IT					
27 Jan	GE	2.50%	2046	1.00		
28 Jan	IT					
01 Feb	LN					
03 Feb	GE			5.00		

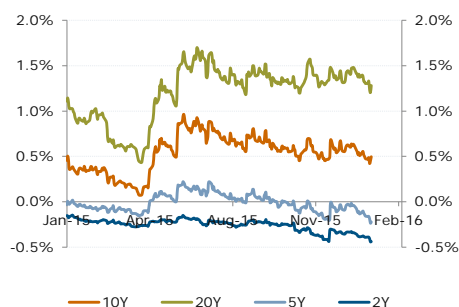
All bond quotes are taken at 16:15 CET.

Bond Yields & Curves

Yield Levels

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

German benchmark bond yields, %



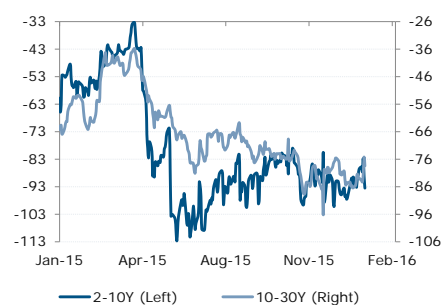
USA-Germany spreads, annualized yields, %



Bond Curve Shape

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

German yield curve slopes, bp



Bonds vs. equities



Swaps and Forwards

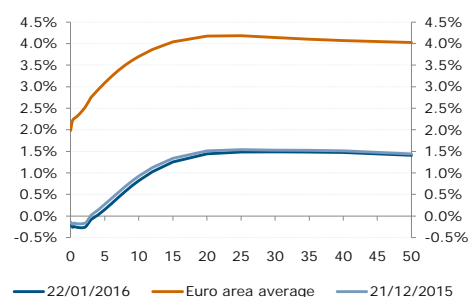
EUR swap rates and implied forwards, %



EUR-USD spreads and implied forwards, %



EUR swap curve shape vs. historical

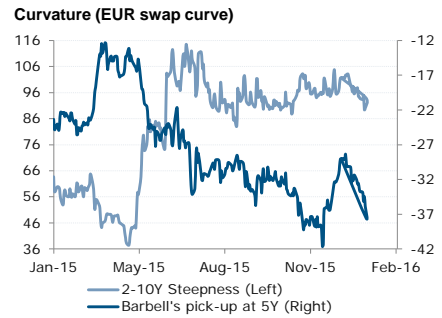


Historical forward rates, %



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

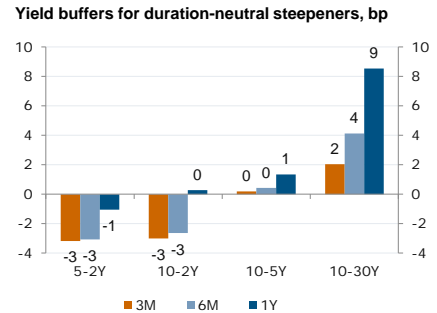
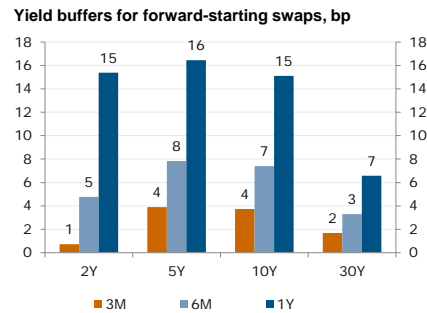
5Y pick-up over a duration and cash neutral 2-10Y EUR swap barbell.



Carry

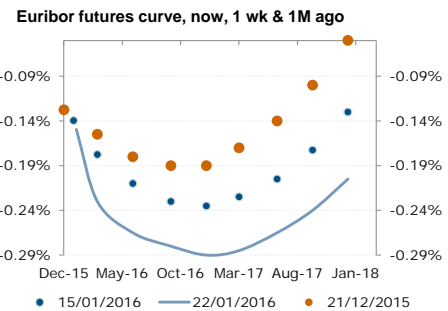
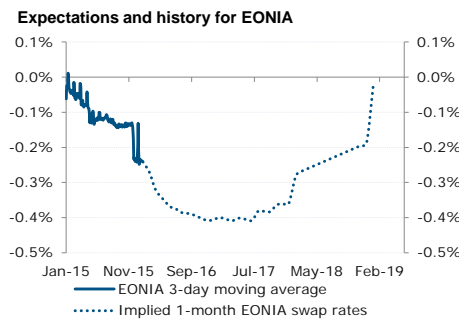
The carry on the given horizon illustrates how much the spot swap rate may rise for a receiver swap position in a forward-starting swap to result in zero profit.

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



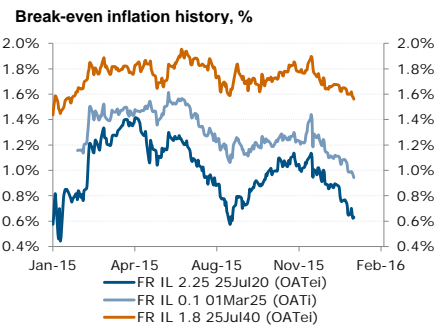
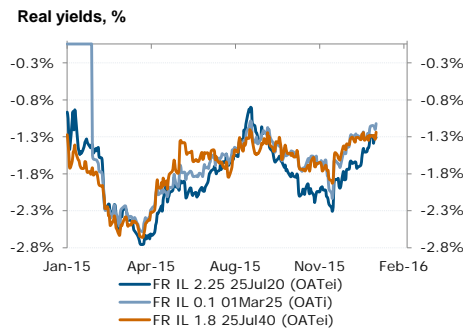
Money Market Rates

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



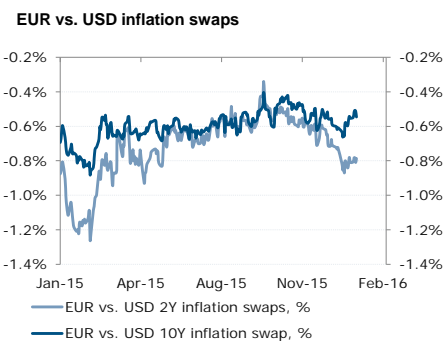
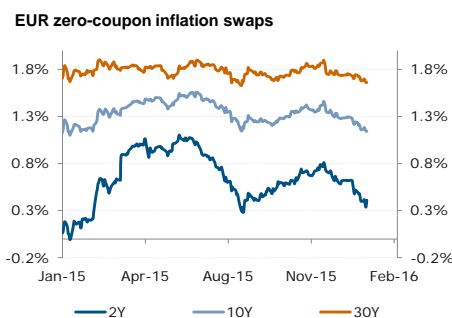
Inflation-linked Bonds

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



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.



Credit & Money Market Spreads

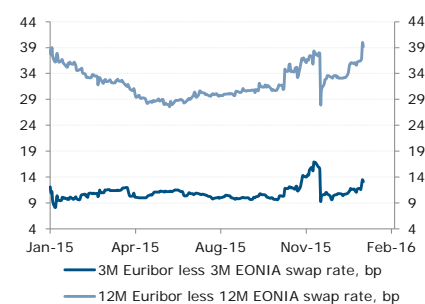
Credit default swap indices illustrate the annual cost of buying protection against a credit event of a company. iTraxx Europe is comprised of the 125 most liquid CDS contracts referencing European investment grade credits, iTraxx Crossover of 50 sub-investment grade credits.

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

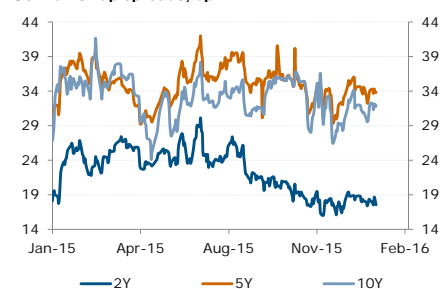


Swap & Cross-country Spreads

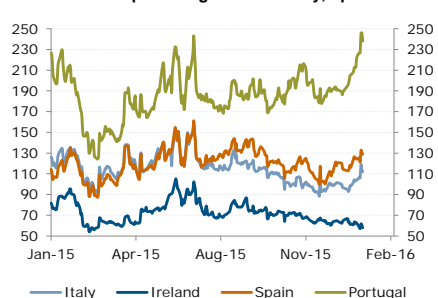
Swap spread: Benchmark bond's spread to EUR swap curve.

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

German swap spreads, bp



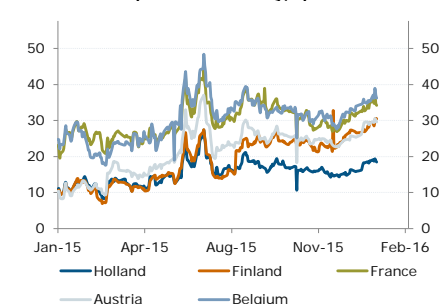
10Y non-AAA spreads against Germany, bp



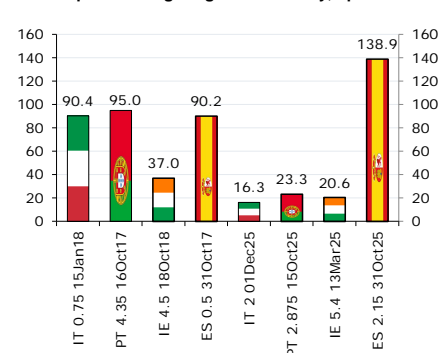
1Y break-even spread changes indicate how much a bond's spread against an equivalent bond trading on the German curve may widen in order to give the same return in one year.

The break-even spread change is based on the spread against the following two German benchmark bonds:
DE TB 15Dec17
DE 0.5 15Feb26

10Y AAA/AA+ spreads to Germany, bp



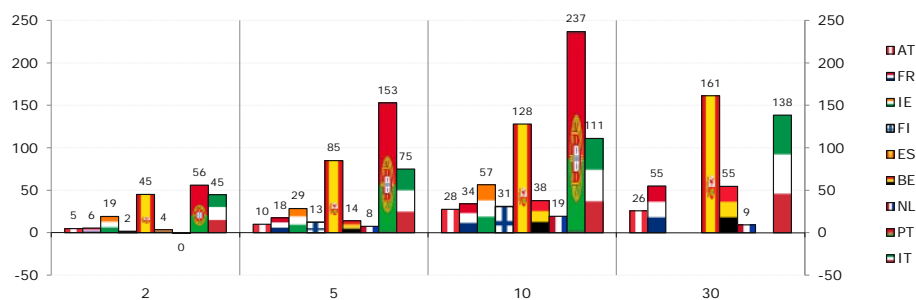
1Y B/E spread changes against Germany, bp



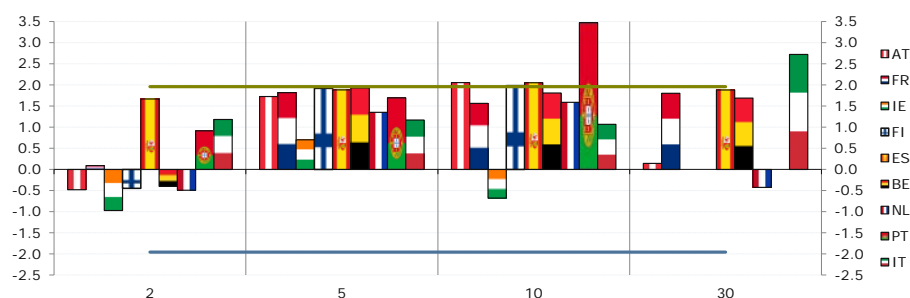


Country Relative Value

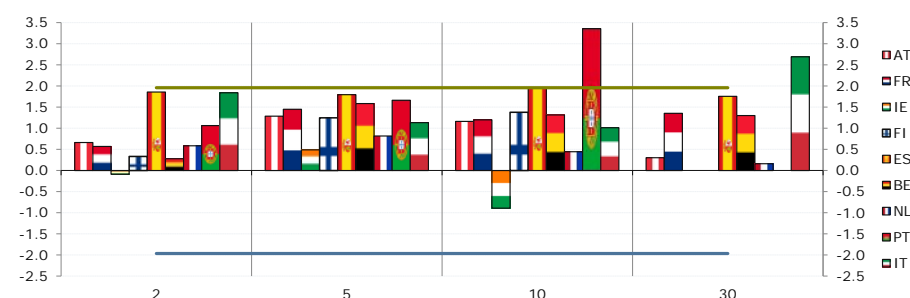
Benchmark spreads over the maturity-interpolated German par curve, bp



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	DE	22 Feb 19	1.000	-15.0	-2.45	AT	15 Jan 18	4.650	-25.1	-1.08
	GR	17 Jul 17	3.375	1,402.7	4.97	GR	17 Jul 17	3.375	1,208.1	4.82
5Y: Rich	DE	17 Apr 20	0.000	-17.8	-2.26	DE	16 Oct 20	0.250	-33.0	-0.35
	EIB	15 Apr 21	1.500	16.8	2.63	EIB	15 Nov 19	1.375	-16.1	3.91
7Y: Rich	DE	15 May 23	1.500	-30.4	-2.93	IT	22 Dec 23	8.500	62.7	-1.48
	PT	15 Feb 24	5.650	241.9	3.26	EIB	14 Apr 23	2.000	-16.0	3.82
10Y: Rich	DE	15 Aug 25	1.000	-33.6	-1.67	IE	13 Mar 25	5.400	40.3	-0.67
	PT	15 Oct 25	2.875	236.8	3.21	EIB	15 Oct 25	4.500	-8.1	3.96
15Y: Rich	DE	04 Jan 37	4.000	-58.8	-1.87	IE	15 May 30	2.400	39.3	-0.23
	PT	15 Apr 37	4.100	263.6	3.76	PT	15 Apr 37	4.100	247.7	3.65
20Y: Rich	DE	15 Aug 46	2.500	-67.2	-1.94	NL	15 Jan 47	2.750	3.7	0.37
	FI	04 Jul 42	2.625	12.2	3.88	EIB	15 Sep 45	1.750	10.6	5.58

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

$\text{Current spread} - \frac{60\text{-day average}}{\text{standard deviation}}$

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.



Germany

	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

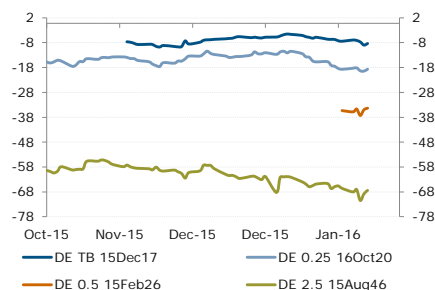
Source: European Commission, Winter 2015 forecast

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

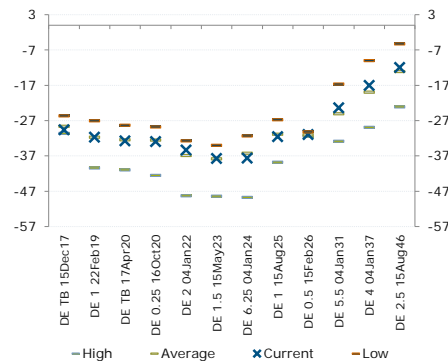
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the French curve.

Benchmark Bonds				Spread vs. France				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
0.000	15 Dec 17	13.0B	-0.440	-8.1	-7.0	-0.96	0.8	-29.6	-28.6	-0.86
1.000	22 Feb 19	16.0B	-0.395	-15.0	-11.6	-2.45	0.8	-31.7	-31.7	-0.01
0.000	17 Apr 20	20.0B	-0.284	-17.8	-14.2	-2.26	0.4	-32.8	-32.5	-0.19
0.250	16 Oct 20	19.0B	-0.224	-18.4	-14.7	-2.12	0.7	-33.0	-32.5	-0.35
2.000	04 Jan 22	20.0B	-0.087	-23.7	-21.3	-1.60	0.0	-35.4	-36.9	0.87
1.500	15 May 23	18.0B	0.076	-30.4	-26.8	-2.93	0.6	-37.7	-37.8	0.06
6.250	04 Jan 24	10.25B	0.136	-34.9	-31.0	-2.40	1.7	-37.7	-36.3	-0.60
1.000	15 Aug 25	23.0B	0.425	-33.6	-29.9	-1.67	0.7	-31.6	-30.9	-0.40
0.500	15 Feb 26	5.0B	0.496	-34.1	-35.2	1.15	-0.1	-31.0	-31.1	0.22
5.500	04 Jan 31	17.0B	0.860	-49.9	-45.4	-1.65	0.4	-23.4	-25.1	0.56
4.000	04 Jan 37	23.0B	1.139	-58.8	-53.6	-1.87	-0.2	-17.1	-19.0	0.62
2.500	15 Aug 46	13.0B	1.282	-67.2	-60.9	-1.94	-0.4	-12.0	-13.1	0.41

Spreads against the French curve, bp



Asset swap term structure, bp



France

	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

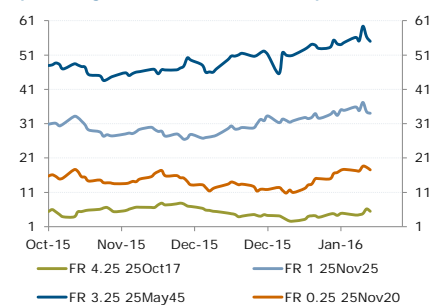
Source: European Commission, Winter 2015 forecast

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

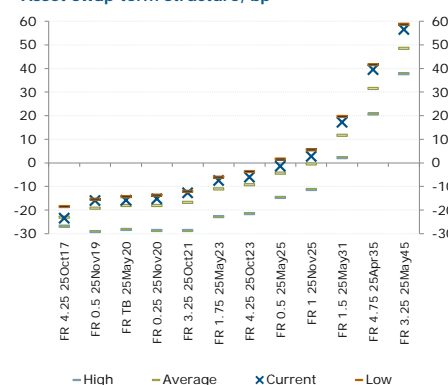
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
4.250	25 Oct 17	34.75B	-0.381	5.6	5.5	0.09	-0.9	-23.4	-23.0	-0.24
0.500	25 Nov 19	26.98B	-0.162	16.5	13.6	2.18	-0.2	-16.0	-19.2	1.86
0.000	25 May 20	22.01B	-0.099	17.0	14.7	1.87	4.8	-15.9	-18.1	1.40
0.250	25 Nov 20	14.16B	-0.031	17.6	14.7	1.77	-0.3	-15.3	-18.1	1.48
3.250	25 Oct 21	39.98B	0.092	19.0	17.0	1.24	0.1	-12.7	-16.7	1.86
1.750	25 May 23	32.97B	0.371	27.0	24.5	2.35	-0.1	-7.5	-11.1	1.70
4.250	25 Oct 23	40.98B	0.398	23.9	21.6	1.69	-0.3	-6.1	-9.3	1.35
0.500	25 May 25	31.02B	0.720	32.5	29.4	1.49	-0.4	-1.4	-4.3	1.23
1.000	25 Nov 25	19.99B	0.807	34.1	30.6	1.50	0.2	2.7	-0.5	1.34
1.500	25 May 31	9.44B	1.395	43.1	39.0	1.37	-0.6	17.2	11.7	1.73
4.750	25 Apr 35	25.03B	1.542	37.1	32.8	1.37	-0.1	39.5	31.5	1.72
3.250	25 May 45	17.01B	1.866	55.1	49.4	1.72	0.2	56.4	48.5	1.65

Spreads against the German curve, bp



Asset swap term structure, bp





Italy

	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

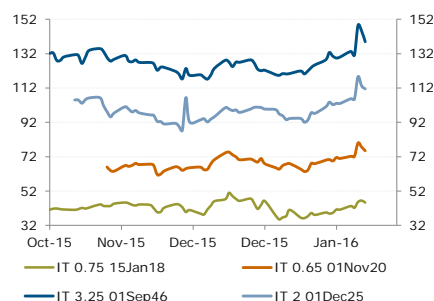
Source: European Commission, Winter 2015 forecast

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

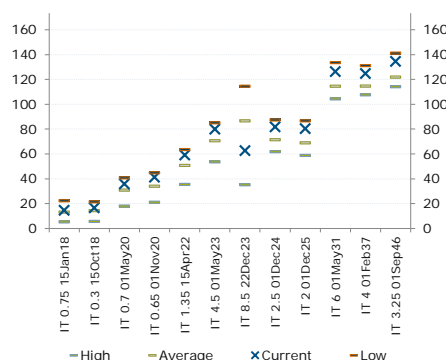
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
0.750	15 Jan 18	15.46B	0.009	44.9	41.9	1.14	-1.3	14.7	13.3	0.47
0.300	15 Oct 18	7.65B	0.060	47.5	45.2	0.77	-5.6	16.7	14.4	0.60
0.700	01 May 20	15.99B	0.415	69.2	64.4	1.62	-4.7	35.9	31.0	1.57
0.650	01 Nov 20	8.94B	0.535	75.0	67.7	2.23	-5.5	41.3	34.1	2.07
1.350	15 Apr 22	17.01B	0.905	94.6	88.1	1.84	-2.8	59.1	50.9	2.25
4.500	01 May 23	18.02B	1.124	103.3	95.6	2.07	-2.2	79.9	70.6	2.21
8.500	22 Dec 23	3.02B	0.902	72.0	91.9	-1.49	11.3	62.7	86.7	-1.48
2.500	01 Dec 24	20.99B	1.441	111.5	101.1	2.55	-5.7	81.9	71.5	2.82
2.000	01 Dec 25	14.88B	1.578	111.0	98.7	2.61	1.3	80.4	68.9	2.82
6.000	01 May 31	29.75B	2.087	112.7	104.4	1.75	-0.1	126.3	114.5	2.42
4.000	01 Feb 37	26.01B	2.443	122.6	115.3	1.88	-0.8	124.7	114.7	2.74
3.250	01 Sep 46	13.24B	2.704	138.5	126.6	2.63	0.1	134.6	121.9	3.10

Spreads against the German curve, bp



Asset swap term structure, bp



Spain

	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

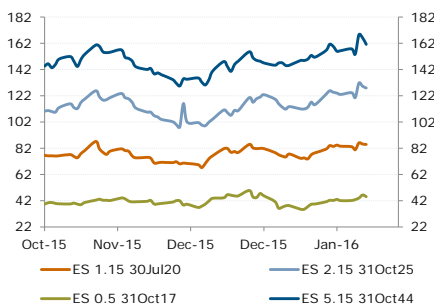
Source: European Commission, Winter 2015 forecast

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

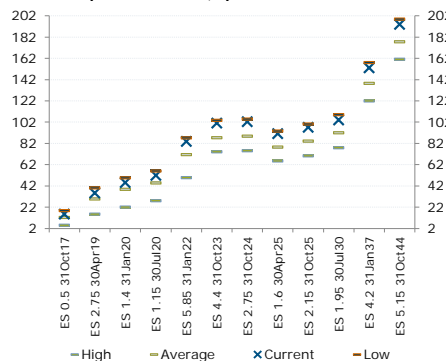
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
0.500	31 Oct 17	16.99B	0.015	45.1	41.5	1.61	-4.5	15.9	12.8	1.38
2.750	30 Apr 19	22.98B	0.273	65.4	59.8	1.48	-1.0	35.8	30.1	1.46
1.400	31 Jan 20	21.91B	0.468	77.6	71.3	1.46	4.2	45.5	39.2	1.46
1.150	30 Jul 20	15.03B	0.603	85.0	77.7	1.80	5.9	52.3	45.2	1.78
5.850	31 Jan 22	22.01B	0.957	102.3	92.8	2.07	13.1	84.2	71.9	2.13
4.400	31 Oct 23	20.01B	1.383	122.1	110.1	2.08	5.4	101.4	87.8	2.11
2.750	31 Oct 24	23.99B	1.623	131.0	117.5	2.17	-6.1	102.8	89.3	2.19
1.600	30 Apr 25	19.09B	1.654	126.8	113.5	2.04	-0.3	91.6	78.9	2.10
2.150	31 Oct 25	20.96B	1.736	128.0	114.4	1.96	-5.9	97.6	84.6	2.02
1.950	30 Jul 30	11.51B	2.285	137.2	125.4	1.51	-2.6	104.6	92.4	1.76
4.200	31 Jan 37	16.37B	2.704	148.7	136.7	1.65	-3.3	153.4	138.9	1.89
5.150	31 Oct 44	11.23B	2.926	161.3	148.1	1.81	0.4	194.4	178.0	1.99

Spreads against the German curve, bp



Asset swap term structure, bp





Netherlands

	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

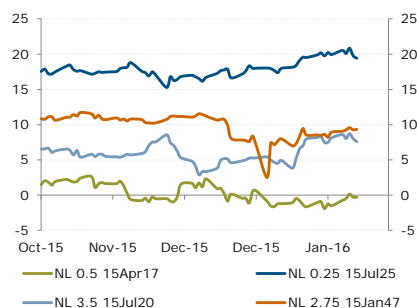
Rating	Aaa/AA+/AAA
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Moody's / S&P / Fitch

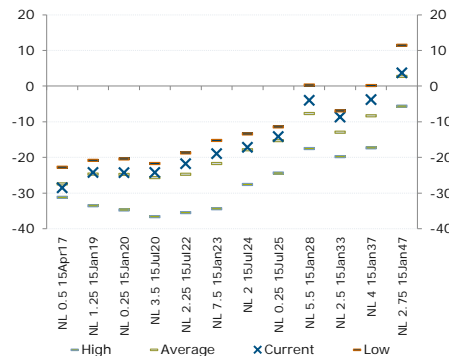
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
0.500	15 Apr 17	13.03B	-0.431	-0.3	0.3	-0.47	-3.2	-28.5	-27.5	-0.57
1.250	15 Jan 19	15.01B	-0.331	7.6	6.5	1.21	-0.2	-24.2	-24.7	0.27
0.250	15 Jan 20	15.84B	-0.228	8.5	7.9	0.49	5.2	-24.3	-24.8	0.26
3.500	15 Jul 20	15.02B	-0.176	7.6	6.1	1.31	-0.1	-24.2	-25.7	0.80
2.250	15 Jul 22	15.01B	0.112	12.3	11.0	0.92	0.7	-21.8	-24.7	1.47
7.500	15 Jan 23	2.37B	0.161	11.0	9.8	1.21	0.3	-19.0	-21.7	1.22
2.000	15 Jul 24	15.32B	0.421	15.4	14.6	1.18	-0.1	-17.2	-17.9	0.38
0.250	15 Jul 25	15.01B	0.609	19.4	18.0	1.52	0.0	-14.2	-15.3	0.60
5.500	15 Jan 28	13.02B	0.818	10.8	9.6	0.76	-0.2	-4.0	-7.7	1.32
2.500	15 Jan 33	12.01B	1.156	9.3	7.1	1.83	-1.2	-8.7	-12.9	1.53
4.000	15 Jan 37	13.99B	1.248	3.2	1.4	2.03	0.0	-3.8	-8.4	1.49
2.750	15 Jan 47	10.99B	1.414	9.3	9.9	-0.40	0.1	3.7	2.7	0.37

Spreads against the German curve, bp



Asset swap term structure, bp



Belgium

	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

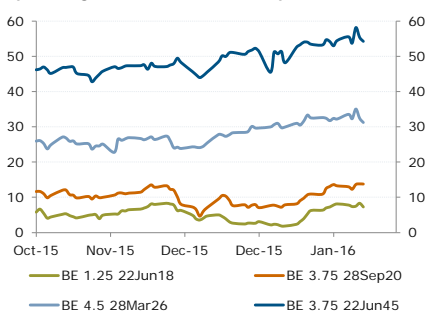
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Moody's / S&P / Fitch

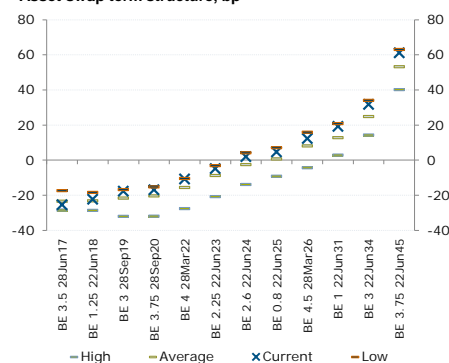
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
3.500	28 Jun 17	13.34B	-0.395	3.6	4.2	-0.38	-10.1	-25.4	-23.5	-0.73
1.250	22 Jun 18	11.01B	-0.350	7.6	5.7	1.21	-3.5	-22.3	-23.2	0.43
3.000	28 Sep 19	12.01B	-0.203	13.8	10.4	2.01	2.8	-17.7	-21.7	1.73
3.750	28 Sep 20	19.01B	-0.085	14.1	10.8	1.87	3.7	-16.9	-20.4	1.55
4.000	28 Mar 22	14.02B	0.158	20.5	17.9	1.84	2.8	-10.8	-15.6	2.20
2.250	22 Jun 23	13.99B	0.398	28.7	25.7	1.48	0.8	-4.9	-8.8	1.53
2.600	22 Jun 24	15.85B	0.586	32.8	28.5	1.83	0.9	2.0	-2.5	1.61
0.800	22 Jun 25	16.02B	0.784	37.8	33.5	1.73	0.2	4.7	0.6	1.46
4.500	28 Mar 26	9.02B	0.824	31.6	28.2	1.26	0.1	12.3	8.1	1.13
1.000	22 Jun 31	4.0B	1.456	48.8	43.4	1.53	-0.1	19.1	12.8	1.66
3.000	22 Jun 34	6.47B	1.564	42.4	37.9	1.28	-0.3	31.8	24.8	1.61
3.750	22 Jun 45	8.01B	1.861	54.6	49.4	1.61	-0.1	61.1	53.2	1.60

Spreads against the German curve, bp



Asset swap term structure, bp





Finland

	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

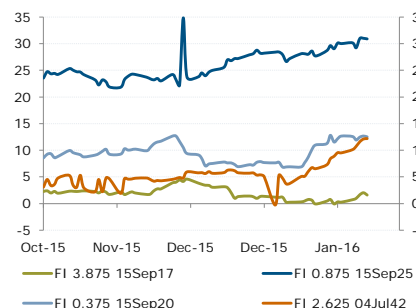
Rating	Aaa/AA+/AAA
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Moody's / S&P / Fitch

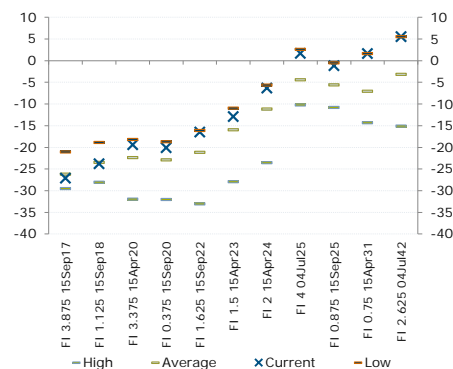
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
3.875	15 Sep 17	6.0B	-0.419	1.6	2.0	-0.43	-0.6	-27.2	-26.2	-0.50
1.125	15 Sep 18	5.03B	-0.355	6.3	6.3	0.09	-0.8	-23.8	-23.5	-0.15
3.375	15 Apr 20	6.5B	-0.162	12.1	9.4	1.95	0.4	-19.4	-22.4	1.37
0.375	15 Sep 20	6.03B	-0.106	12.5	9.7	1.83	-0.2	-20.1	-22.9	1.26
1.625	15 Sep 22	5.0B	0.191	18.1	15.2	1.68	0.0	-16.5	-21.2	2.04
1.500	15 Apr 23	5.0B	0.308	22.3	20.3	2.23	-0.9	-12.9	-16.0	1.61
2.000	15 Apr 24	5.0B	0.494	26.5	22.0	2.52	0.0	-6.3	-11.2	2.03
4.000	04 Jul 25	6.03B	0.667	25.7	20.0	2.16	0.6	1.7	-4.4	2.08
0.875	15 Sep 25	4.03B	0.747	30.9	26.1	1.89	0.4	-1.2	-5.6	1.69
0.750	15 Apr 31	3.5B	1.265	30.8	22.7	2.87	-0.4	1.6	-7.1	2.38
2.625	04 Jul 42	4.03B	1.426	12.2	5.6	3.88	0.3	5.5	-3.2	2.42

Spreads against the German curve, bp



Asset swap term structure, bp



Austria

	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

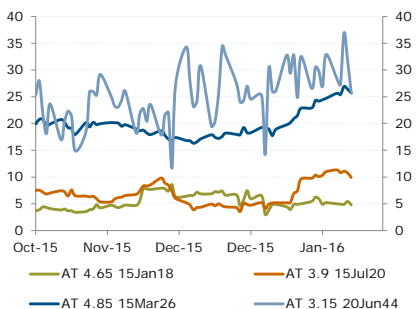
Rating	Aaa/AA+/AA+
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Moody's / S&P / Fitch

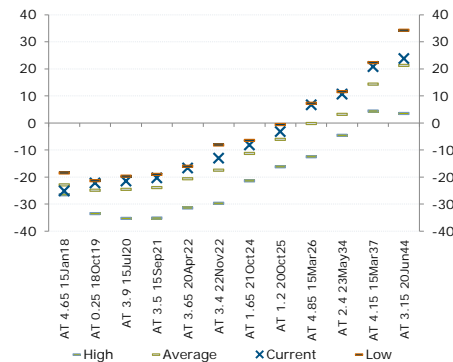
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
4.650	15 Jan 18	12.06B	-0.391	4.9	5.5	-0.50	-0.1	-25.1	-22.9	-1.08
0.250	18 Oct 19	7.95B	-0.235	10.2	7.8	1.51	-0.2	-22.2	-24.9	1.22
3.900	15 Jul 20	13.01B	-0.152	10.0	7.1	1.66	-0.2	-21.5	-24.5	1.23
3.500	15 Sep 21	14.99B	0.006	11.7	9.8	0.77	0.9	-20.3	-23.9	1.28
3.650	20 Apr 22	8.71B	0.116	15.5	13.7	0.90	1.5	-16.7	-20.6	1.53
3.400	22 Nov 22	10.99B	0.229	19.7	17.1	0.95	-5.4	-13.0	-17.5	1.28
1.650	21 Oct 24	10.35B	0.549	24.0	20.8	2.37	1.0	-8.1	-11.3	1.53
1.200	20 Oct 25	9.02B	0.728	27.6	24.4	1.93	0.6	-3.2	-6.1	1.32
4.850	15 Mar 26	8.01B	0.762	25.8	20.1	2.81	0.7	6.7	-0.2	2.31
2.400	23 May 34	5.19B	1.393	25.6	20.4	2.09	-1.6	10.7	3.2	1.91
4.150	15 Mar 37	12.22B	1.449	23.0	19.7	1.98	0.4	20.8	14.4	1.60
3.150	20 Jun 44	6.72B	1.570	25.9	25.3	0.14	-0.8	23.8	21.3	0.40

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

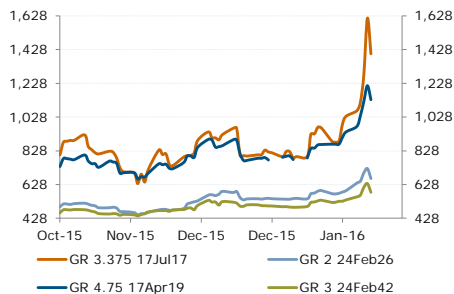
Source: European Commission, Winter 2015 forecast

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

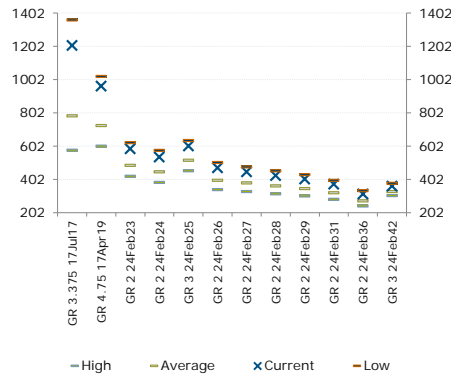
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
3.375	17 Jul 17	2.02B	13.595	1,402.7	875.3	4.97	273.0	1,208.1	784.8	4.82
4.750	17 Apr 19	4.02B	10.919	1,130.3	816.6	3.94	14.6	963.7	725.8	3.83
2.000	24 Feb 23	1.04B	7.924	785.9	632.5	3.24	-148.5	586.8	487.4	3.14
2.000	24 Feb 24	1.25B	7.512	730.4	590.2	2.88	-171.8	536.7	448.2	2.81
3.000	24 Feb 25	1.84B	8.644	828.3	681.3	2.84	-181.2	603.0	517.8	2.77
2.000	24 Feb 26	1.37B	7.130	663.2	537.4	2.71	-147.9	472.2	397.2	2.63
2.000	24 Feb 27	1.21B	7.021	641.0	526.5	2.58	-147.3	448.0	381.3	2.50
2.000	24 Feb 28	1.84B	6.908	618.7	508.8	2.70	-144.2	425.6	363.0	2.60
2.000	24 Feb 29	1.48B	6.777	596.5	494.9	2.57	-138.9	404.2	347.6	2.50
2.000	24 Feb 31	1.29B	6.643	569.4	471.9	2.53	-130.9	373.1	321.9	2.48
2.000	24 Feb 36	1.33B	6.230	503.8	416.5	2.60	-129.8	314.8	272.8	2.57
3.000	24 Feb 42	1.05B	7.117	581.4	498.7	2.70	-216.9	361.5	328.7	2.65

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

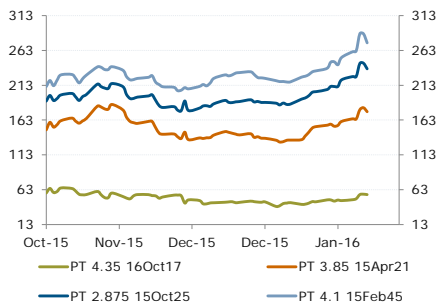
Source: European Commission, Winter 2015 forecast

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

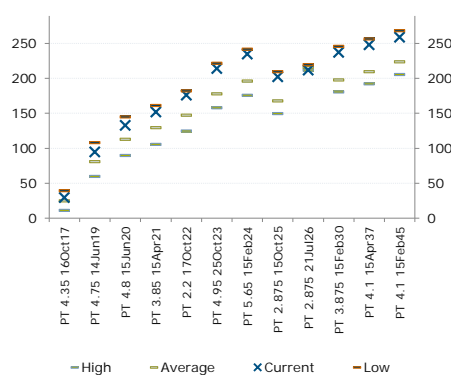
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
4.350	16 Oct 17	8.99B	0.125	56.1	50.8	0.93	1.8	29.5	24.6	0.83
4.750	14 Jun 19	10.75B	0.816	118.5	105.1	1.45	-0.1	94.7	80.7	1.35
4.800	15 Jun 20	10.99B	1.268	153.0	134.1	1.63	-4.8	132.5	112.8	1.58
3.850	15 Apr 21	9.55B	1.591	175.2	154.1	1.67	-5.4	151.6	129.4	1.71
2.200	17 Oct 22	3.0B	2.169	214.8	186.0	2.32	-5.3	175.9	147.1	2.40
4.950	25 Oct 23	8.02B	2.450	229.0	193.9	3.02	-5.4	213.9	177.7	2.89
5.650	15 Feb 24	12.02B	2.623	241.9	204.3	3.26	-4.7	234.5	195.9	3.07
2.875	15 Oct 25	10.52B	2.818	236.8	198.5	3.21	-2.4	202.1	167.6	3.14
2.875	21 Jul 26	4.0B	3.029	248.5	253.0	-0.50	-2.7	211.5	215.4	-0.50
3.875	15 Feb 30	4.05B	3.491	260.5	216.8	3.54	-0.8	237.0	197.4	3.52
4.100	15 Apr 37	8.02B	3.858	263.6	219.0	3.76	0.4	247.7	209.4	3.65
4.100	15 Feb 45	2.5B	4.055	274.2	229.3	3.59	-0.5	258.6	223.5	3.49

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

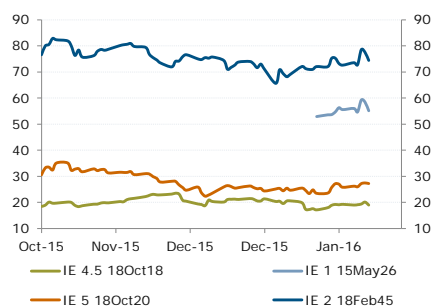
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Moody's / S&P / Fitch

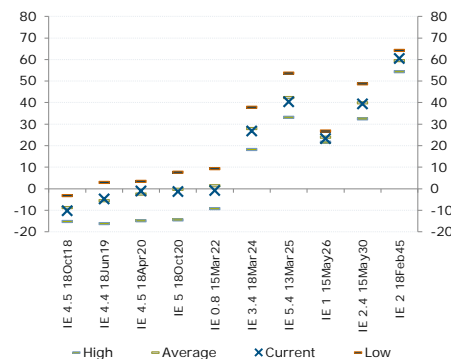
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
4.500	18 Oct 18	9.58B	-0.223	19.2	20.4	-0.98	-1.6	-10.3	-8.8	-0.66
4.400	18 Jun 19	7.06B	-0.113	25.5	24.5	0.50	1.5	-4.8	-5.6	0.27
4.500	18 Apr 20	11.77B	0.004	28.5	27.3	0.67	0.6	-1.1	-2.5	0.55
5.000	18 Oct 20	8.99B	0.055	27.4	28.3	-0.27	0.4	-1.4	-0.3	-0.27
0.800	15 Mar 22	4.25B	0.286	33.8	37.9	-1.05	-0.1	-0.9	1.3	-0.62
3.400	18 Mar 24	8.01B	0.765	54.7	56.1	-0.52	-2.4	26.7	27.9	-0.39
5.400	13 Mar 25	11.35B	0.933	56.6	58.3	-0.65	0.8	40.3	42.3	-0.67
1.000	15 May 26	3.0B	1.076	55.3	55.7	-0.20	-7.7	23.3	23.9	-0.48
2.400	15 May 30	7.78B	1.504	60.3	62.9	-0.74	-0.5	39.3	39.8	-0.23
2.000	18 Feb 45	5.05B	2.060	74.6	75.7	-0.36	-6.1	60.4	59.4	0.45

Spreads against the German curve, bp



Asset swap term structure, bp





European Investment Bank (EIB)

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-Jan	60D Avg.	Z-score	Δ B/E Spd 1Y	22-Jan	60D Avg.	Z-score
5.500	15 Feb 18	0.64B	-0.265	17.3	14.2	2.14	-3.1	-11.7	-13.7	2.19
2.500	15 Mar 19	2.9B	-0.233	16.0	12.1	1.90	0.0	-15.5	-19.2	2.99
1.375	15 Nov 19	3.0B	-0.168	16.0	11.9	2.26	3.8	-16.1	-20.7	3.91
1.500	15 Apr 21	5.0B	0.008	16.8	12.7	2.63	0.9	-15.6	-20.6	3.91
2.000	14 Apr 23	5.0B	0.269	18.5	14.6	2.26	-0.7	-16.0	-21.1	3.82
2.125	15 Jan 24	5.0B	0.367	17.6	13.7	2.03	-0.2	-16.1	-20.3	3.64
4.125	15 Apr 24	7.25B	0.396	16.7	12.1	2.20	1.3	-13.0	-18.4	3.72
2.750	15 Sep 25	5.35B	0.611	17.3	12.4	2.23	2.5	-10.0	-14.8	3.83
4.500	15 Oct 25	7.75B	0.600	15.0	10.7	2.06	1.2	-8.1	-12.7	3.96
4.000	15 Apr 30	6.5B	1.056	16.0	14.7	0.46	0.2	1.0	-2.4	3.21
2.625	15 Mar 35	1.7B	1.365	19.7	18.7	0.41	-0.6	6.9	3.6	3.26
1.750	15 Sep 35	1.3B	1.634	21.5	18.2	1.39	0.9	10.6	6.0	5.58



Kreditanstalt für Wiederaufbau (KfW)

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<https://nexus.nordea.com/#/research>