

Euro Rates Update

Nordea Research, 29 February 2016

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US Treasury Yields				
	2Y	5Y	10Y	30Y
	0.79	1.24	1.77	2.65
Δ 1D	5.9	6.0	4.7	5.0
Δ 1W	4.6	-1.8	-3.6	-3.5

German Benchmark Yields				
	2Y	5Y	10Y	30Y
	-0.55	-0.37	0.15	0.85
Δ 1D	-1.4	-2.3	-0.4	1.9
Δ 1W	-3.2	-6.2	-8.7	-8.3

German Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-17.6	-51.6	-69.2	-70.6
Δ 1D	-0.8	1.9	1.0	2.3
Δ 1W	-3.0	-2.5	-5.5	0.4

EUR Swap Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-18.8	-53.3	-72.1	-47.7
Δ 1D	-0.8	1.7	0.9	2.1
Δ 1W	-2.3	-1.0	-3.3	-2.5

German Asset Swap Levels				
	2Y	5Y	10Y	30Y
	-35.1	-37.6	-37.7	-11.4
Δ 1D	-0.2	-0.2	0.0	0.3
Δ 1W	-1.0	-1.1	-2.2	0.5

10Y Benchmark Yields				
	Yield	Δ 1D	Spread	Δ 1D
GER	0.146	-0.4	-	-
FRA	0.504	-1.3	37.9	-0.9
ITA	1.496	-2.9	136.9	-2.5
ESP	1.598	-2.9	148.1	-2.5
BEL	0.480	-2.0	40.7	-1.5
HOL	0.291	-1.3	20.9	-0.8
AUT	0.423	-1.3	31.0	-0.9
GRE	9.703	-32.4	966.8	-31.9
POR	3.018	-26.4	290.7	-26.0
FIN	0.430	-1.3	32.9	-0.9
IRL	0.810	-2.2	76.9	-1.7

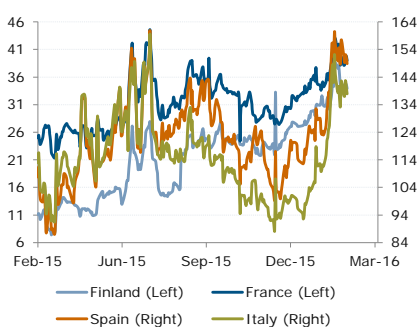
Spread = Maturity interpolated spread to German government par yield curve

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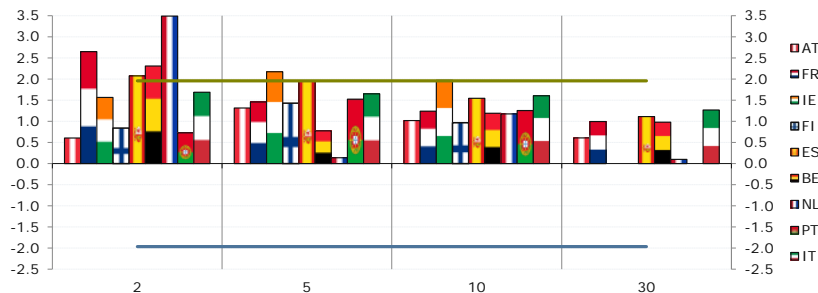
German & US 10-year benchmark yields, %



10 year spreads against Germany, bp



Z-scores of benchmark vs. Germany



Upcoming Issuance (source: Bloomberg)						
Date	Country	Coupon	Maturity	Amount (EURbn)		
29 Feb	LN					
02 Mar	GE	0.00%	2021	4.00		
03 Mar	SP					
03 Mar	FR					
07 Mar	LN	2.10%	2021			

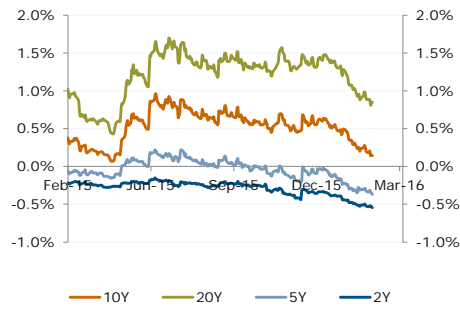
All bond quotes are taken at 16:15 CET.

Bond Yields & Curves

Yield Levels

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

German benchmark bond yields, %



USA-Germany spreads, annualized yields, %



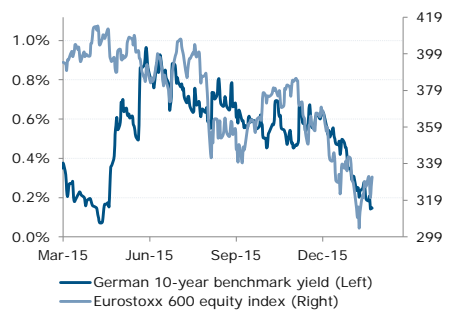
Bond Curve Shape

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

German yield curve slopes, bp



Bonds vs. equities



Swaps and Forwards

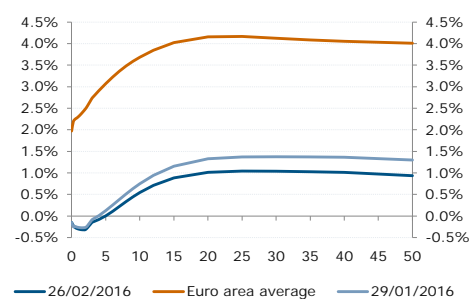
EUR swap rates and implied forwards, %



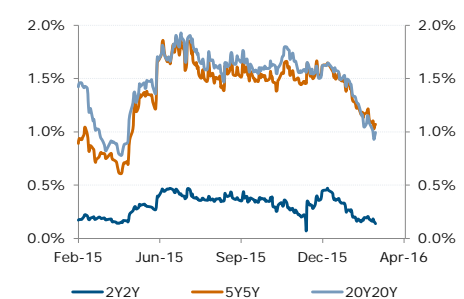
EUR-USD spreads and implied forwards, %



EUR swap curve shape vs. historical

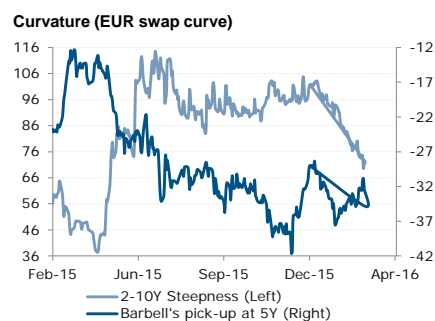
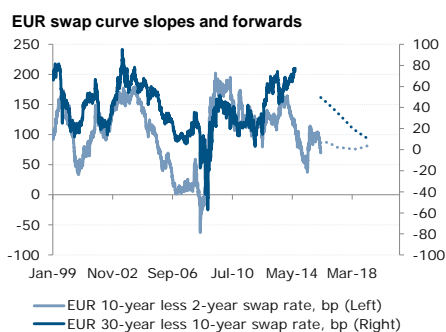


Historical forward rates, %



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

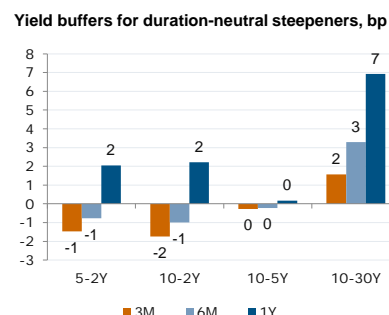
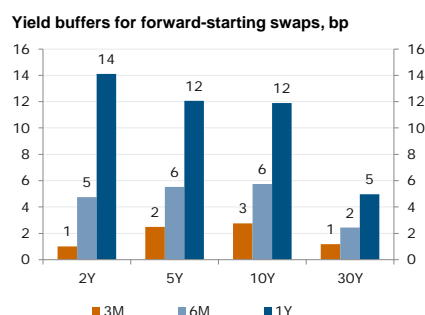
5Y pick-up over a duration and cash neutral 2-10Y EUR swap barbell.



Carry

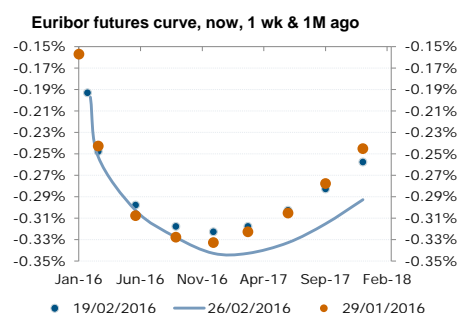
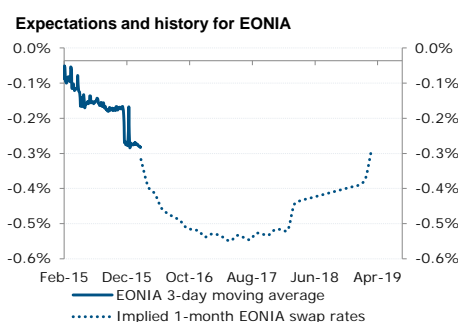
The carry on the given horizon illustrates how much the spot swap rate may rise for a receiver swap position in a forward-starting swap to result in zero profit.

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.



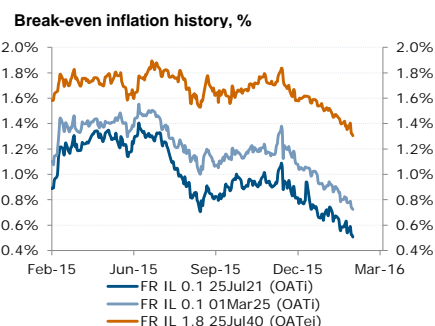
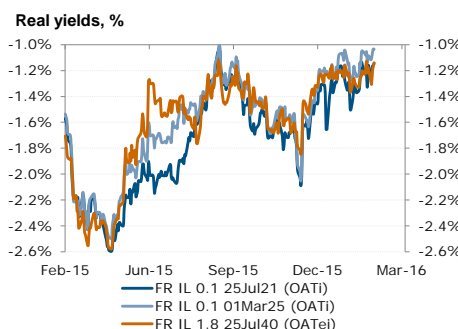
Money Market Rates

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



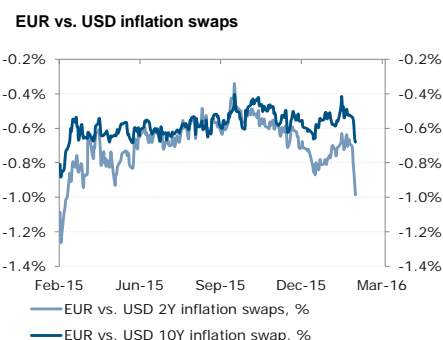
Inflation-linked Bonds

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

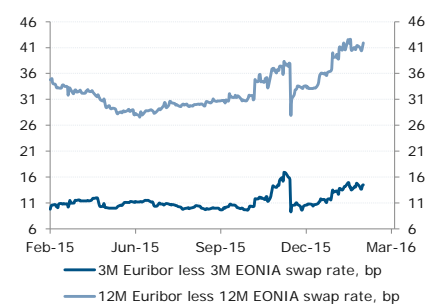
Credit default swap indices illustrate the annual cost of buying protection against a credit event of a company. iTraxx ® Europe is comprised of the 125 most liquid CDS contracts referencing European investment grade credits, iTraxx ® Crossover of 50 sub-investment grade credits.

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



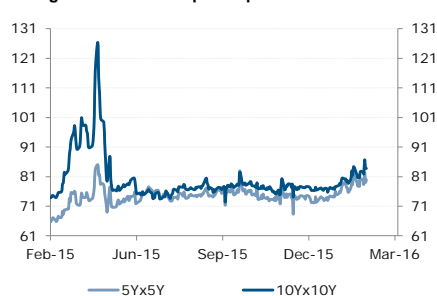
Swaption Volatilities

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

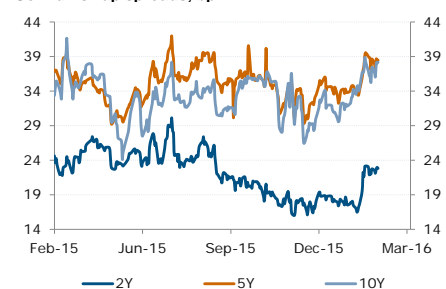


Swap & Cross-country Spreads

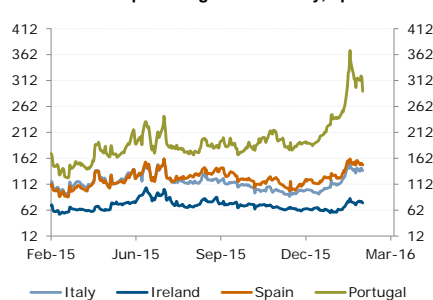
Swap spread:
Benchmark bond's spread to EUR swap curve.

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

German swap spreads, bp



10Y non-AAA spreads against Germany, bp

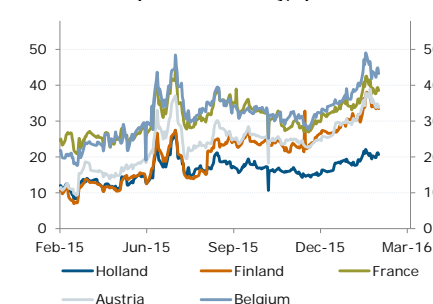


1Y break-even spread changes indicate how much a bond's spread against an equivalent bond trading on the German curve may widen in order to give the same return in one year.

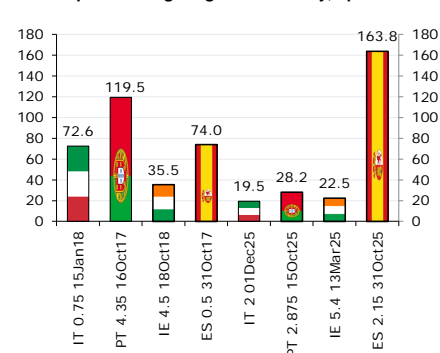
The break-even spread change is based on the spread against the following two German benchmark bonds:

DE TB 16Mar18
DE 0.5 15Feb26

10Y AAA/AA+ spreads to Germany, bp



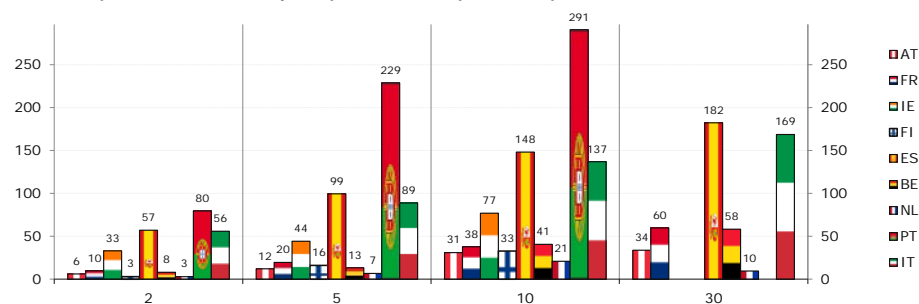
1Y B/E spread changes against Germany, bp



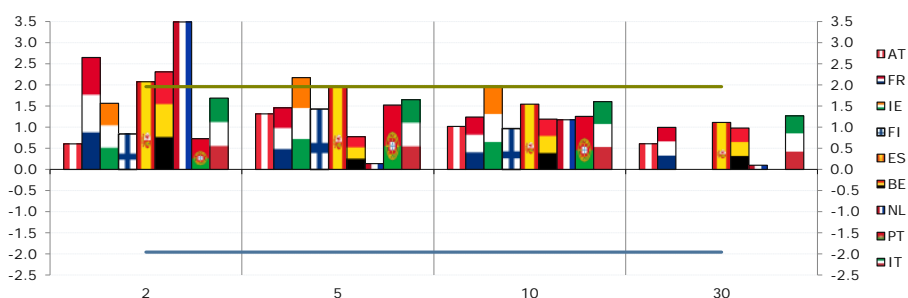


Country Relative Value

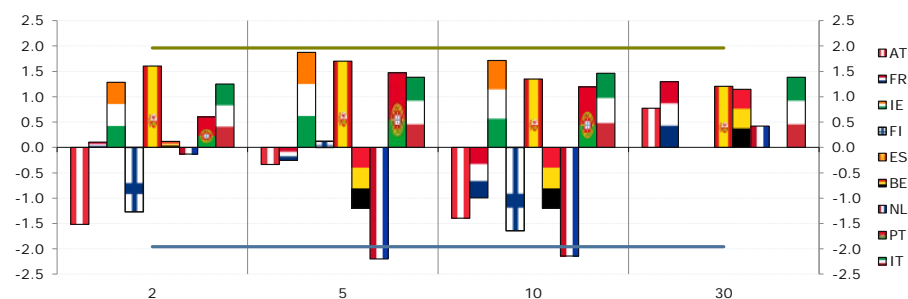
Benchmark spreads over the maturity-interpolated German par curve, bp



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	DE	22 Feb 19	1.000	-15.6	-1.64	KfW	12 Feb 18	0.625	-18.8	-2.71
	NL	15 Apr 17	0.500	3.0	3.21	ES	31 Oct 17	0.500	23.2	1.57
5Y: Rich	DE	17 Apr 20	0.000	-19.6	-1.50	DE	04 Jan 22	2.000	-41.6	-2.16
	EIB	15 Nov 19	1.375	20.2	2.09	IE	18 Oct 20	5.000	14.6	1.90
7Y: Rich	DE	15 May 23	1.500	-31.6	-0.84	BE	22 Jun 23	2.250	-13.5	-2.63
	IE	15 Mar 22	0.800	54.9	2.10	IE	15 Mar 22	0.800	14.0	1.80
10Y: Rich	DE	15 Aug 25	1.000	-37.6	-1.22	DE	15 Aug 25	1.000	-38.7	-1.98
	KfW	15 Jan 25	0.625	23.4	2.13	IE	13 Mar 25	5.400	56.8	1.69
15Y: Rich	DE	04 Jan 31	5.500	-55.9	-1.23	DE	04 Jan 31	5.500	-30.6	-1.58
	IE	15 May 30	2.400	81.9	1.68	IE	15 May 30	2.400	55.9	1.74
20Y: Rich	DE	15 Aug 46	2.500	-73.6	-1.15	DE	15 Aug 46	2.500	-11.4	0.60
	FI	04 Jul 42	2.625	21.8	1.54	FI	04 Jul 42	2.625	17.5	2.00

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

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

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

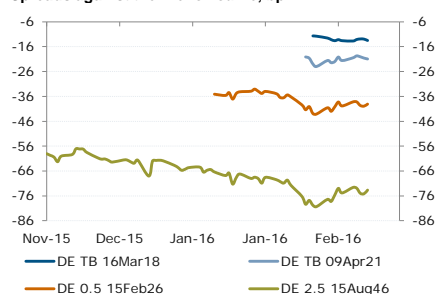
Source: European Commission, Winter 2015 forecast

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

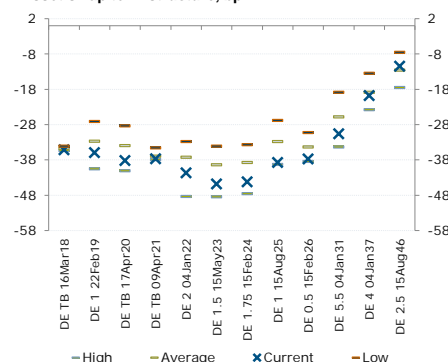
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the French curve.

Benchmark Bonds				Spread vs. France				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score
0.000	16 Mar 18	5.0B	-0.546	-13.5	-12.9	-0.97	-3.0	-35.1	-34.7	-0.92
1.000	22 Feb 19	16.0B	-0.510	-15.6	-12.5	-1.64	0.2	-35.9	-32.7	-1.51
0.000	17 Apr 20	20.0B	-0.460	-19.6	-16.0	-1.50	0.4	-38.2	-33.9	-1.99
0.000	09 Apr 21	5.0B	-0.370	-20.9	-21.2	0.26	5.4	-37.6	-36.9	-1.03
2.000	04 Jan 22	20.0B	-0.334	-26.0	-22.4	-1.49	-0.4	-41.6	-37.2	-2.16
1.500	15 May 23	18.0B	-0.214	-31.6	-29.3	-0.84	0.4	-44.8	-39.3	-2.11
1.750	15 Feb 24	18.0B	-0.125	-33.6	-32.1	-0.64	0.6	-44.2	-38.7	-1.97
1.000	15 Aug 25	23.0B	0.083	-37.6	-33.3	-1.22	0.5	-38.7	-32.8	-1.98
0.500	15 Feb 26	10.0B	0.146	-39.1	-37.5	-0.59	0.1	-37.7	-34.3	-1.49
5.500	04 Jan 31	17.0B	0.457	-55.9	-50.0	-1.23	0.0	-30.6	-25.8	-1.58
4.000	04 Jan 37	23.0B	0.710	-65.9	-59.5	-1.15	-0.1	-19.8	-18.8	-0.48
2.500	15 Aug 46	14.0B	0.852	-73.6	-67.5	-1.15	-0.1	-11.4	-12.5	0.60

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

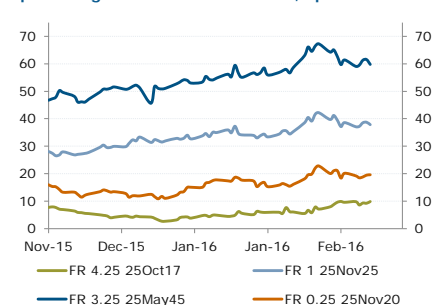
Source: European Commission, Winter 2015 forecast

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

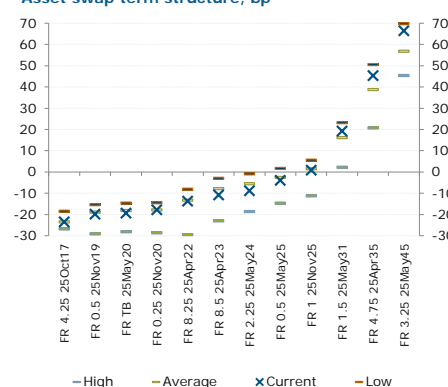
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score
4.250	25 Oct 17	34.03B	-0.435	9.9	6.0	2.55	1.4	-23.5	-23.5	0.01
0.500	25 Nov 19	26.98B	-0.306	17.1	14.8	1.37	-0.3	-19.9	-18.9	-0.58
0.000	25 May 20	22.01B	-0.258	18.7	16.0	1.55	7.2	-19.4	-18.2	-0.78
0.250	25 Nov 20	20.95B	-0.206	19.6	16.0	1.40	-0.5	-17.8	-17.9	0.06
8.250	25 Apr 22	1.99B	-0.087	21.1	17.0	1.59	-0.7	-13.7	-13.3	-0.16
8.500	25 Apr 23	10.03B	0.028	22.8	20.2	1.14	-0.9	-10.9	-7.9	-1.35
2.250	25 May 24	30.55B	0.230	30.1	28.3	0.68	-0.7	-8.9	-5.6	-1.66
0.500	25 May 25	31.02B	0.419	35.4	32.5	1.00	0.1	-4.0	-2.6	-0.84
1.000	25 Nov 25	25.99B	0.504	37.9	33.8	1.21	0.4	0.8	1.5	-0.36
1.500	25 May 31	9.44B	1.034	49.2	43.6	1.15	0.1	19.2	16.1	0.92
4.750	25 Apr 35	25.03B	1.177	44.1	38.4	1.11	-0.3	45.3	38.7	1.24
3.250	25 May 45	17.01B	1.491	59.8	55.3	0.96	0.1	66.4	56.8	1.68

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

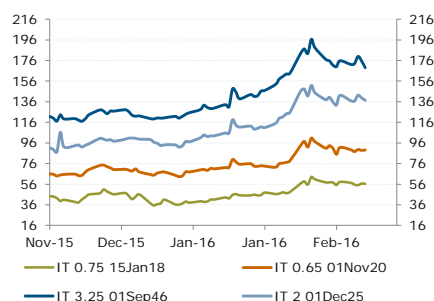
Source: European Commission, Winter 2015 forecast

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

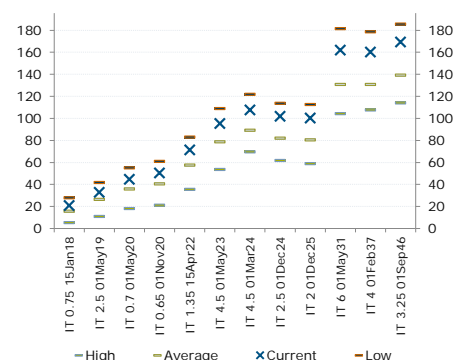
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Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score
0.750	15 Jan 18	15.46B	0.018	55.9	46.3	1.61	-18.0	21.0	15.8	1.08
2.500	01 May 19	18.01B	0.168	67.0	57.9	1.48	-0.1	32.9	26.6	1.12
0.700	01 May 20	15.99B	0.378	82.9	70.5	1.59	1.0	44.6	35.9	1.31
0.650	01 Nov 20	13.15B	0.481	88.8	75.4	1.57	1.1	50.4	40.5	1.37
1.350	15 Apr 22	17.01B	0.826	112.7	95.3	1.66	2.5	71.3	57.7	1.43
4.500	01 May 23	18.02B	1.040	123.8	104.2	1.60	-1.6	95.4	78.8	1.43
4.500	01 Mar 24	23.71B	1.237	134.0	112.1	1.54	-3.2	107.7	89.3	1.40
2.500	01 Dec 24	20.99B	1.376	137.4	113.1	1.59	-6.0	102.0	82.0	1.50
2.000	01 Dec 25	17.01B	1.496	136.9	112.1	1.53	-0.9	100.4	80.5	1.45
6.000	01 May 31	29.75B	2.018	147.9	118.7	1.45	-0.1	162.0	130.8	1.48
4.000	01 Feb 37	26.01B	2.342	155.6	129.9	1.34	0.3	160.2	130.9	1.48
3.250	01 Sep 46	13.24B	2.586	168.6	143.0	1.22	-1.4	169.4	139.3	1.48

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

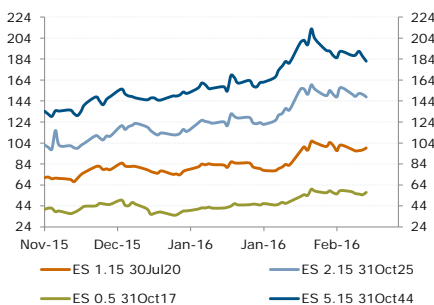
Source: European Commission, Winter 2015 forecast

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

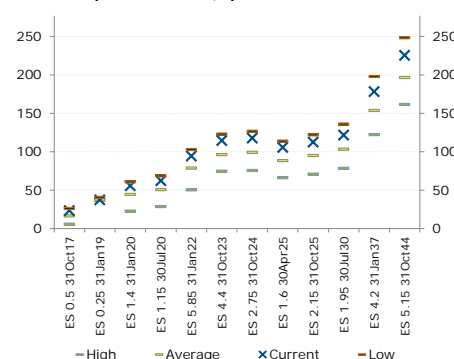
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Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score
0.500	31 Oct 17	16.99B	0.037	57.1	46.2	1.96	-17.4	23.2	16.4	1.57
0.250	31 Jan 19	4.86B	0.223	73.6	73.8	-0.20	2.3	37.1	38.1	-0.55
1.400	31 Jan 20	21.91B	0.455	92.5	77.5	1.94	1.7	55.6	44.2	1.71
1.150	30 Jul 20	17.02B	0.565	99.5	84.2	1.86	9.7	62.1	50.4	1.65
5.850	31 Jan 22	22.01B	0.853	117.2	99.4	1.78	-0.7	94.3	78.7	1.48
4.400	31 Oct 23	20.01B	1.263	140.5	119.1	1.64	-0.8	114.6	96.1	1.49
2.750	31 Oct 24	23.99B	1.503	151.2	128.6	1.58	-5.4	117.6	99.1	1.47
1.600	30 Apr 25	19.09B	1.518	146.1	124.3	1.52	0.0	105.4	88.3	1.42
2.150	31 Oct 25	20.96B	1.598	148.1	126.2	1.48	-6.6	112.4	95.0	1.37
1.950	30 Jul 30	11.51B	2.085	158.8	137.0	1.28	-2.9	121.5	103.2	1.30
4.200	31 Jan 37	17.02B	2.485	169.9	149.8	1.14	0.1	178.3	153.8	1.32
5.150	31 Oct 44	11.23B	2.713	182.2	162.8	1.07	-0.5	225.4	196.5	1.36

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

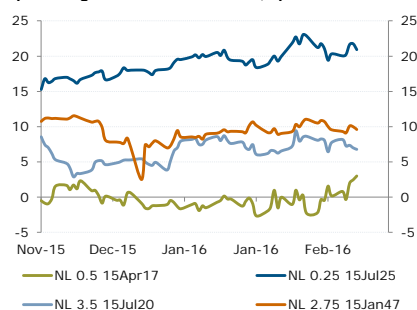
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Moody's / S&P / Fitch

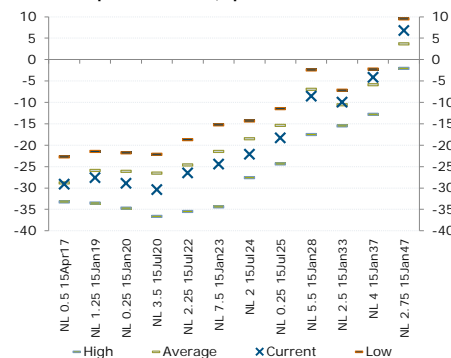
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread			
Coupon	Maturity	Volume	Yield	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score	
0.500	15 Apr 17	13.03B	-0.487	3.0	-0.3	3.21	7.1	-29.1	-28.9	-0.14	
1.250	15 Jan 19	15.01B	-0.437	7.7	6.4	0.96	-1.3	-27.6	-25.9	-1.11	
0.250	15 Jan 20	15.84B	-0.385	8.6	7.8	0.64	5.8	-29.0	-26.1	-1.38	
3.500	15 Jul 20	15.02B	-0.366	6.8	6.6	0.16	-0.4	-30.4	-26.6	-1.86	
2.250	15 Jul 22	15.01B	-0.137	14.1	11.6	1.40	-0.8	-26.5	-24.6	-1.01	
7.500	15 Jan 23	2.37B	-0.095	13.4	11.0	1.67	-0.5	-24.4	-21.5	-1.48	
2.000	15 Jul 24	15.32B	0.123	17.4	15.7	1.24	-0.2	-22.2	-18.5	-1.92	
0.250	15 Jul 25	15.01B	0.291	20.9	19.2	1.15	-0.3	-18.3	-15.4	-1.85	
5.500	15 Jan 28	13.02B	0.472	15.4	10.9	1.64	0.1	-8.6	-7.0	-0.86	
2.500	15 Jan 33	12.01B	0.758	12.5	9.5	1.18	-0.2	-10.0	-10.6	0.44	
4.000	15 Jan 37	13.99B	0.833	4.7	3.2	0.78	-0.2	-4.2	-5.9	0.98	
2.750	15 Jan 47	10.99B	0.997	9.6	9.5	0.12	-0.1	6.8	3.6	1.58	

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

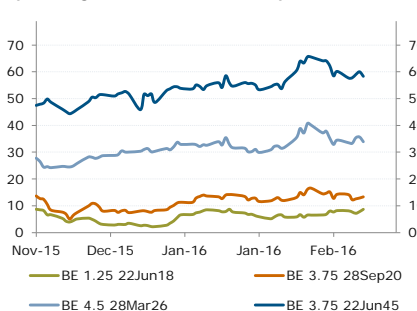
Rating	Aa3/AA/AA
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Moody's / S&P / Fitch

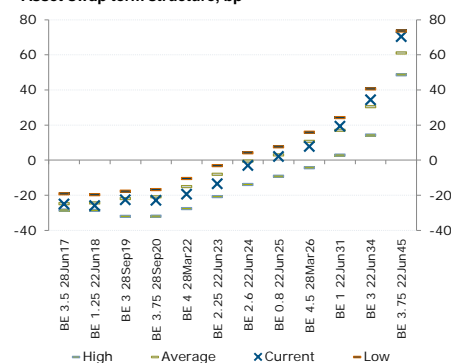
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread			
Coupon	Maturity	Volume	Yield	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score	
3.500	28 Jun 17	13.34B	-0.443	8.1	4.3	2.23	5.7	-25.1	-24.8	-0.13	
1.250	22 Jun 18	11.01B	-0.447	8.7	6.0	1.68	1.6	-25.9	-24.5	-0.66	
3.000	28 Sep 19	12.01B	-0.350	13.5	11.0	1.20	0.0	-22.7	-21.9	-0.33	
3.750	28 Sep 20	19.01B	-0.282	13.3	11.6	0.78	1.6	-22.9	-20.9	-0.86	
4.000	28 Mar 22	14.02B	-0.115	19.1	18.7	0.22	-0.5	-19.4	-15.2	-1.78	
2.250	22 Jun 23	13.99B	0.088	26.9	27.6	-0.38	-1.7	-13.5	-8.1	-2.63	
2.600	22 Jun 24	15.85B	0.287	34.6	32.1	0.88	-1.0	-3.0	-0.6	-1.14	
0.800	22 Jun 25	16.02B	0.480	40.7	37.2	1.15	-0.5	2.0	3.0	-0.54	
4.500	28 Mar 26	9.02B	0.501	33.9	31.5	0.79	-0.6	7.8	10.6	-1.16	
1.000	22 Jun 31	4.97B	1.071	52.4	47.9	1.02	1.1	19.3	17.0	0.71	
3.000	22 Jun 34	6.47B	1.175	46.9	42.8	0.91	-0.3	34.3	30.4	0.91	
3.750	22 Jun 45	8.01B	1.477	58.3	54.5	0.95	-0.3	70.3	61.0	1.69	

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

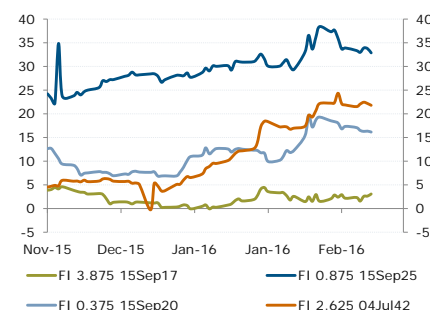
Rating	Aaa/AA+/AAA
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Moody's / S&P / Fitch

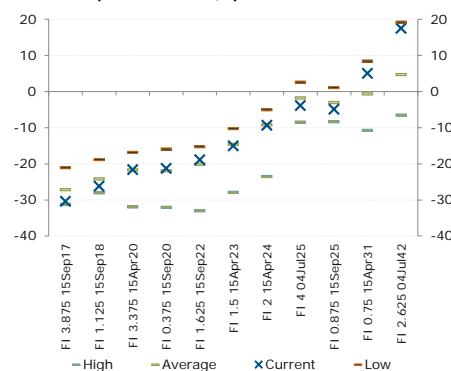
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score
3.875	15 Sep 17	6.0B	-0.500	3.1	2.1	0.86	1.7	-30.4	-27.2	-1.26
1.125	15 Sep 18	5.03B	-0.444	8.1	6.6	1.50	-0.9	-26.2	-24.2	-1.07
3.375	15 Apr 20	6.5B	-0.304	15.0	11.2	1.40	-0.2	-21.6	-21.8	0.05
0.375	15 Sep 20	6.03B	-0.257	16.1	11.8	1.38	0.4	-21.3	-22.0	0.29
1.625	15 Sep 22	5.0B	-0.041	22.0	16.7	1.58	-0.5	-18.9	-20.1	0.43
1.500	15 Apr 23	5.0B	0.063	26.6	22.6	1.41	-0.6	-15.0	-14.6	-0.24
2.000	15 Apr 24	5.0B	0.218	30.4	25.5	1.45	-0.2	-9.3	-9.3	-0.03
4.000	04 Jul 25	6.03B	0.349	27.1	23.9	0.97	-0.4	-3.9	-1.8	-0.98
0.875	15 Sep 25	4.03B	0.430	32.9	30.0	0.93	-0.3	-4.9	-3.1	-1.27
0.750	15 Apr 31	3.5B	0.923	38.6	29.8	1.33	0.3	5.0	-0.7	1.26
2.625	04 Jul 42	4.03B	1.097	21.8	12.1	1.54	0.0	17.5	4.7	2.00

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

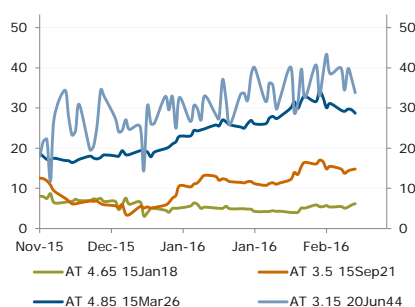
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Moody's / S&P / Fitch

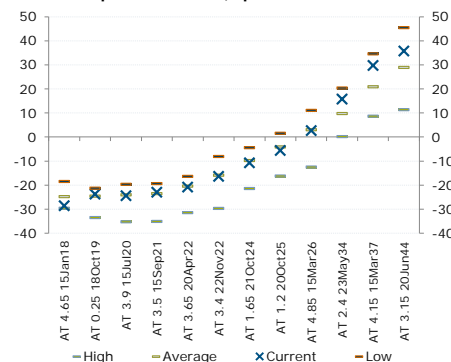
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score
4.650	15 Jan 18	12.06B	-0.479	6.2	5.5	0.66	3.2	-28.6	-24.8	-1.54
0.250	18 Oct 19	7.95B	-0.352	13.1	9.0	1.73	-0.6	-23.8	-24.5	0.34
3.900	15 Jul 20	13.01B	-0.312	12.2	8.7	1.29	-0.2	-24.4	-24.1	-0.14
3.500	15 Sep 21	14.99B	-0.196	14.8	10.6	1.40	-0.7	-22.9	-23.5	0.20
3.650	20 Apr 22	8.71B	-0.119	18.1	14.3	1.48	-1.3	-20.8	-20.4	-0.17
3.400	22 Nov 22	10.99B	-0.014	22.9	19.2	1.08	1.9	-16.4	-15.9	-0.15
1.650	21 Oct 24	10.35B	0.265	27.8	23.9	1.28	-0.6	-10.7	-9.8	-0.58
1.200	20 Oct 25	9.66B	0.423	31.0	27.7	0.99	-0.4	-5.6	-4.1	-0.76
4.850	15 Mar 26	8.01B	0.446	28.7	24.0	0.98	-0.3	2.6	3.0	-0.12
2.400	23 May 34	5.19B	1.034	33.2	26.5	1.17	-0.9	15.8	9.8	1.24
4.150	15 Mar 37	12.22B	1.102	31.2	24.6	1.29	0.3	29.8	20.9	1.59
3.150	20 Jun 44	6.72B	1.227	33.8	30.8	0.58	-0.5	35.8	29.0	1.18

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

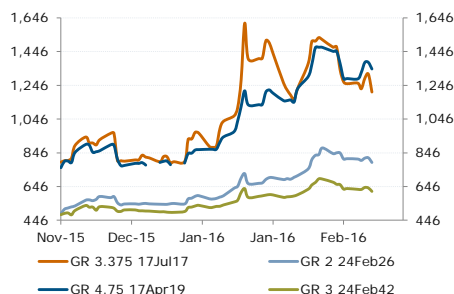
Source: European Commission, Winter 2015 forecast

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

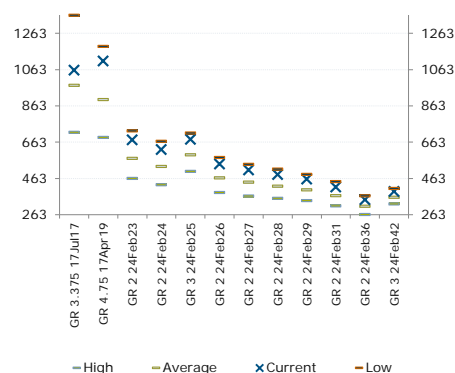
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score
3.375	17 Jul 17	2.02B	11.538	1,206.3	1,110.4	0.40	-533.3	1,058.8	975.9	0.43
4.750	17 Apr 19	4.02B	12.925	1,342.9	1,048.8	1.34	-105.2	1,109.6	897.4	1.33
2.000	24 Feb 23	1.04B	9.159	937.8	770.5	1.32	-79.1	675.2	572.7	1.34
2.000	24 Feb 24	1.25B	8.690	879.5	723.4	1.33	-78.4	621.5	528.3	1.35
3.000	24 Feb 25	1.84B	9.703	966.8	814.2	1.35	-89.0	677.4	592.2	1.38
2.000	24 Feb 26	1.37B	8.040	788.6	654.9	1.35	-73.8	541.7	465.1	1.38
2.000	24 Feb 27	1.21B	7.765	752.4	633.6	1.33	-79.6	509.1	441.9	1.38
2.000	24 Feb 28	1.84B	7.590	726.3	610.8	1.34	-71.7	483.6	419.6	1.39
2.000	24 Feb 29	1.48B	7.384	698.0	590.6	1.36	-64.6	458.7	399.7	1.42
2.000	24 Feb 31	1.29B	6.954	642.5	557.9	1.22	-60.7	415.2	367.3	1.33
2.000	24 Feb 36	1.33B	6.216	545.6	487.7	1.01	-51.2	345.4	308.9	1.26
3.000	24 Feb 42	1.05B	7.049	617.1	566.0	0.93	-73.2	390.8	358.3	1.32

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

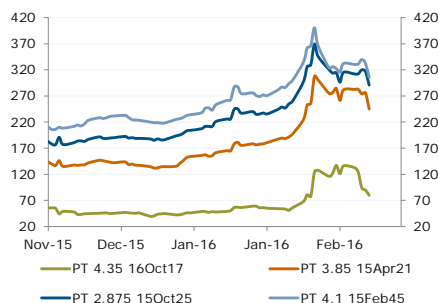
Source: European Commission, Winter 2015 forecast

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

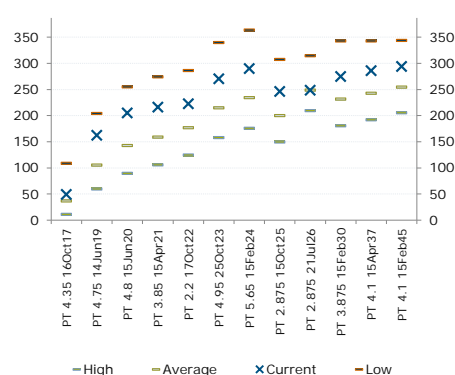
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score
4.350	16 Oct 17	8.99B	0.262	79.6	63.6	0.70	-23.7	49.3	36.6	0.58
4.750	14 Jun 19	10.75B	1.381	187.8	130.1	1.52	-19.0	162.2	105.5	1.47
4.800	15 Jun 20	10.99B	1.847	228.7	164.7	1.45	-12.8	205.1	142.7	1.42
3.850	15 Apr 21	9.55B	2.077	244.9	184.7	1.33	-15.9	216.2	158.9	1.31
2.200	17 Oct 22	3.0B	2.456	270.9	218.6	1.17	-5.9	222.5	176.8	1.15
4.950	25 Oct 23	8.02B	2.777	292.0	232.8	1.24	-7.7	270.4	214.7	1.23
5.650	15 Feb 24	12.02B	2.924	303.2	244.5	1.24	-6.1	289.9	234.3	1.22
2.875	15 Oct 25	10.52B	3.018	290.7	236.1	1.21	-0.5	246.1	199.9	1.20
2.875	21 Jul 26	4.0B	3.133	294.3	295.2	-0.02	-0.9	248.3	248.8	-0.02
3.875	15 Feb 30	4.05B	3.529	305.7	256.3	1.04	0.9	274.5	231.5	1.09
4.100	15 Apr 37	8.02B	3.815	302.3	258.2	0.98	-3.9	285.6	242.8	1.15
4.100	15 Feb 45	2.5B	3.948	305.6	267.2	0.90	-3.3	293.8	254.4	1.18

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

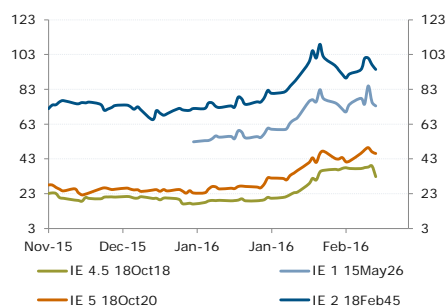
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Moody's / S&P / Fitch

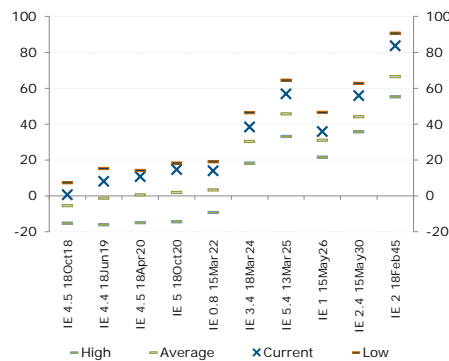
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score
4.500	18 Oct 18	9.58B	-0.192	33.1	24.3	1.48	-8.6	0.5	-5.5	1.12
4.400	18 Jun 19	7.06B	-0.084	41.3	29.6	1.54	-0.5	8.1	-1.2	1.24
4.500	18 Apr 20	11.77B	-0.012	44.3	31.1	2.05	3.7	10.7	0.5	1.78
5.000	18 Oct 20	8.99B	0.053	46.4	31.5	2.05	2.0	14.6	1.8	1.90
0.800	15 Mar 22	4.25B	0.240	54.9	40.2	2.10	-0.3	14.0	3.2	1.80
3.400	18 Mar 24	8.01B	0.626	72.3	60.0	1.68	-0.5	38.3	30.3	1.43
5.400	13 Mar 25	11.35B	0.810	76.9	62.6	1.86	0.0	56.8	45.6	1.69
1.000	15 May 26	4.0B	0.911	73.8	65.7	0.88	-6.1	35.8	31.0	0.71
2.400	15 May 30	7.78B	1.305	81.9	67.1	1.68	-0.4	55.9	44.0	1.74
2.000	18 Feb 45	5.05B	1.839	94.7	81.1	1.45	-4.3	83.5	66.4	1.80

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	26-Feb	60D Avg.	Z-score	Δ B/E Spd 1Y	26-Feb	60D Avg.	Z-score
5.500	15 Feb 18	0.64B	-0.324	21.9	16.6	1.75	-2.6	-12.3	-13.0	0.48
2.500	15 Mar 19	2.9B	-0.313	19.5	14.7	1.89	1.7	-15.7	-17.5	0.89
1.375	15 Nov 19	3.0B	-0.276	20.2	14.6	2.09	0.9	-16.4	-18.8	1.12
1.500	15 Apr 21	5.0B	-0.162	20.9	15.6	1.57	-1.0	-16.2	-18.3	0.81
2.000	14 Apr 23	5.0B	0.040	24.4	17.7	1.76	-0.2	-16.6	-18.9	0.87
2.125	15 Jan 24	5.0B	0.123	24.1	17.4	1.60	-1.3	-16.5	-18.3	0.75
4.125	15 Apr 24	7.25B	0.152	23.7	16.2	1.54	0.1	-13.1	-15.8	0.81
0.125	15 Apr 25	3.0B	0.342	29.0	28.4	0.53	-0.6	-11.2	-10.9	-0.61
4.500	15 Oct 25	7.75B	0.349	23.7	15.0	1.60	0.1	-5.6	-9.6	1.09
4.000	15 Apr 30	6.5B	0.723	24.2	17.1	1.59	0.3	2.8	-0.4	1.44
2.625	15 Mar 35	1.7B	0.997	26.4	21.3	1.21	0.1	11.6	6.7	1.47
1.750	15 Sep 35	1.3B	1.161	26.6	21.2	1.04	0.5	18.6	10.4	1.70



Kreditanstalt für Wiederaufbau (KfW)

[illegible]

Nov-15 Dec-15 Jan-16 Jan-16 Feb-16

— KfW 0.625 12Feb18 — KfW 1.625 15Jan21

— KfW 1.375 31Jul35 — KfW 0.625 15Jan25

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