

Euro Rates Update

Nordea Research, 23 marts 2016

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US Treasury Yields				
	2Y	5Y	10Y	30Y
	0.86	1.36	1.90	2.71
Δ 1D	-0.4	-0.2	-0.7	-1.4
Δ 1W	-9.6	-10.2	-5.3	-3.2

German Benchmark Yields				
	2Y	5Y	10Y	30Y
	-0.48	-0.30	0.21	0.91
Δ 1D	-0.4	-0.4	-0.6	-1.0
Δ 1W	-1.7	-2.1	-4.6	-8.0

German Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-18.0	-51.4	-69.4	-70.0
Δ 1D	0.0	-0.2	-0.2	-0.4
Δ 1W	-0.4	-2.6	-3.0	-3.4

EUR Swap Curve Slopes				
	2-5Y	5-10Y	2-10Y	10-30Y
	-19.3	-53.8	-73.1	-51.9
Δ 1D	0.3	-0.1	0.2	0.0
Δ 1W	-1.4	-2.3	-3.7	-2.1

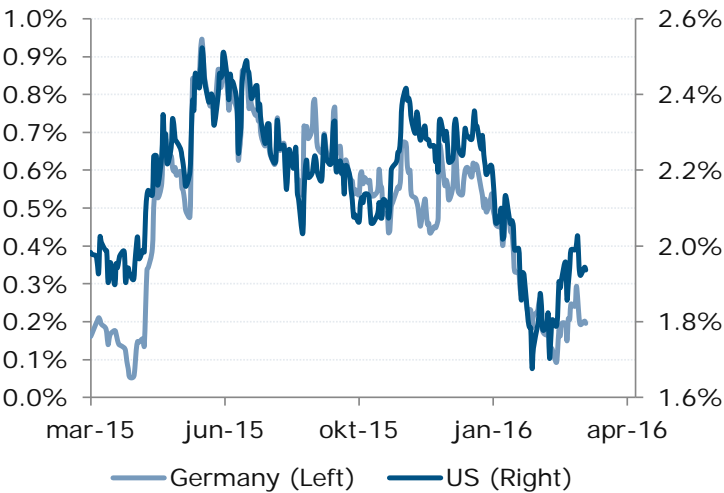
German Asset Swap Levels				
	2Y	5Y	10Y	30Y
	-32.5	-34.2	-34.9	-15.0
Δ 1D	-0.4	-0.7	-0.9	-1.5
Δ 1W	-0.9	0.1	-0.2	-1.9

10Y Benchmark Yields				
	Yield	Δ 1D	Spread	Δ 1D
GER	0.214	-0.6	-	-
FRA	0.477	0.0	28.9	0.6
ITA	1.254	-0.8	106.4	-0.2
ESP	1.440	-0.3	126.0	0.2
BEL	0.464	0.1	32.8	0.6
HOL	0.299	-1.3	15.6	-0.8
AUT	0.414	-0.6	23.8	0.0
GRE	7.959	8.9	786.4	9.3
POR	2.740	-0.4	256.6	0.1
FIN	0.526	0.4	29.4	1.0
IRL	0.839	-0.1	60.1	0.5

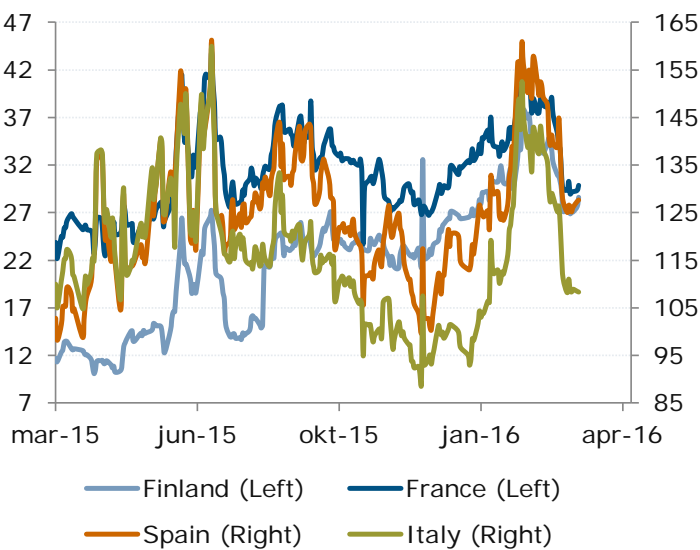
Spread = Maturity interpolated spread to German government par yield curve

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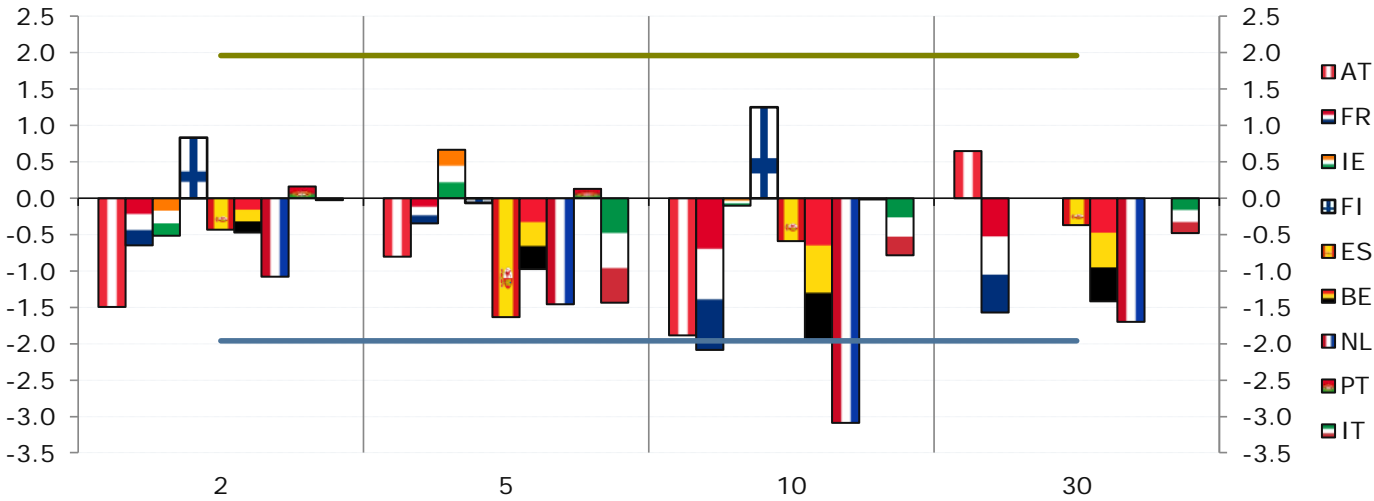
German & US 10-year benchmark yields, %



10 year spreads against Germany, bp



Z-scores of benchmark vs. Germany



Upcoming Issuance (source: Bloomberg)							
Date		Country		Coupon		Maturity	Amount (EURbn)
23 mar		GE		2.50%		2046	1.00
24 mar		IT					
29 mar		LN		2.10%		2024	
30 mar		IT					
30 mar		GE					4.00

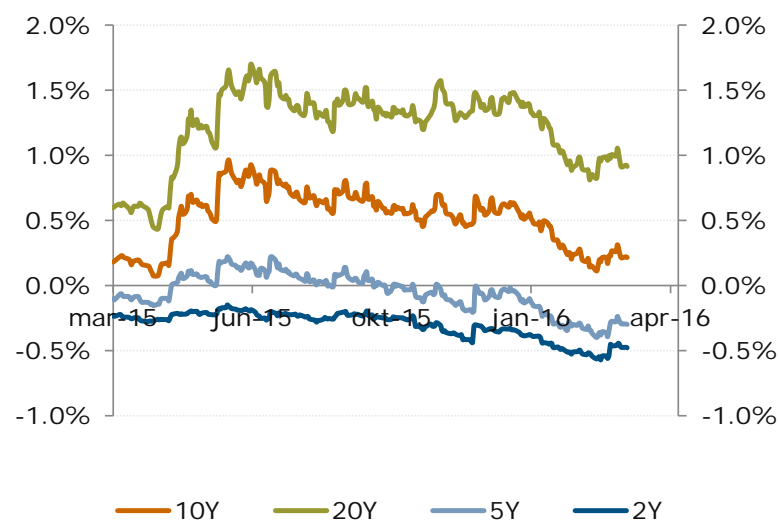
All bond quotes are taken at 16:15 CET.

Bond Yields & Curves

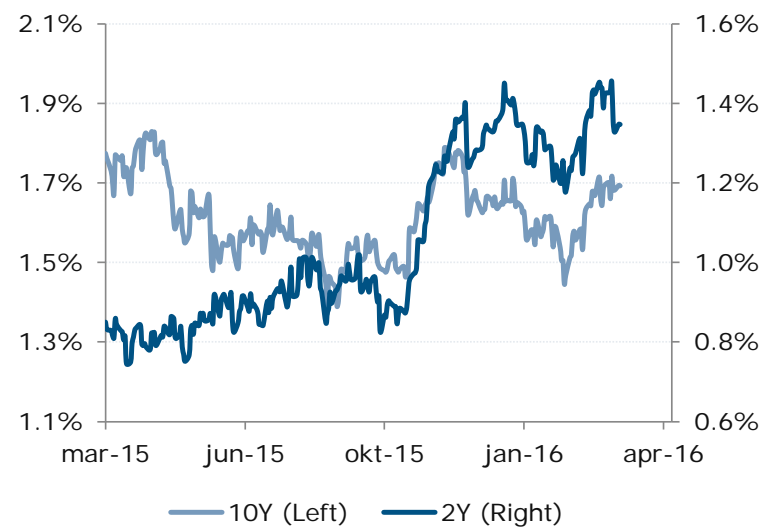
Yield Levels

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

German benchmark bond yields, %



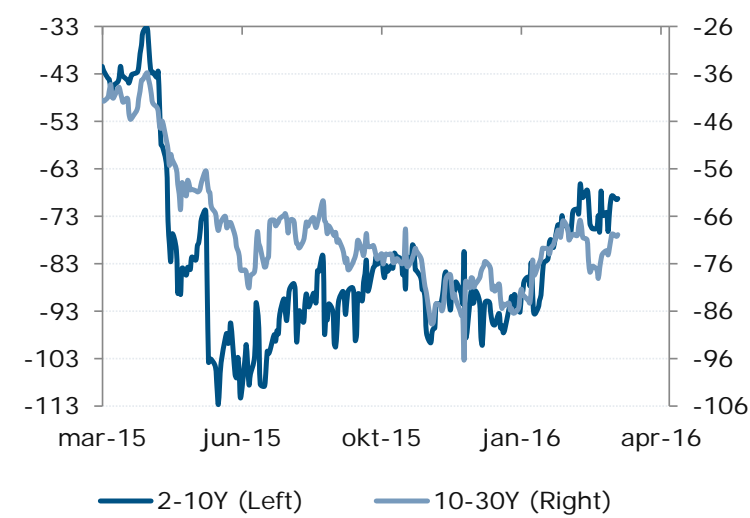
USA-Germany spreads, annualized yields, %



Bond Curve Shape

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

German yield curve slopes, bp

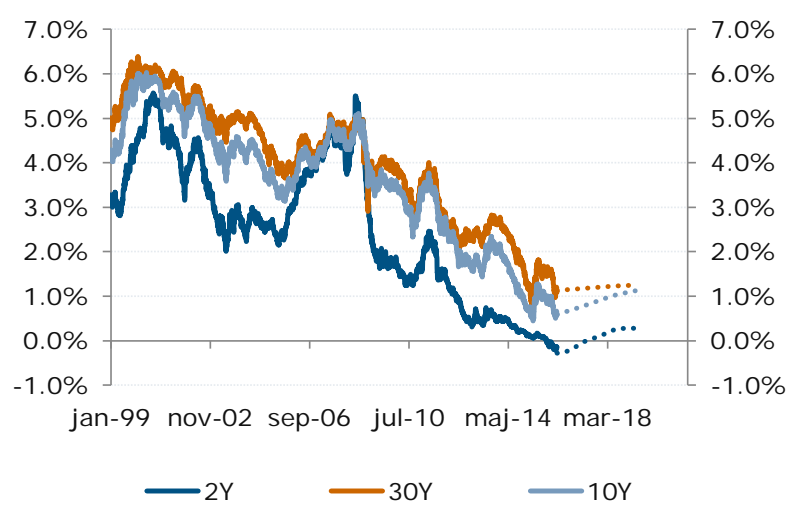


Bonds vs. equities



Swaps and Forwards

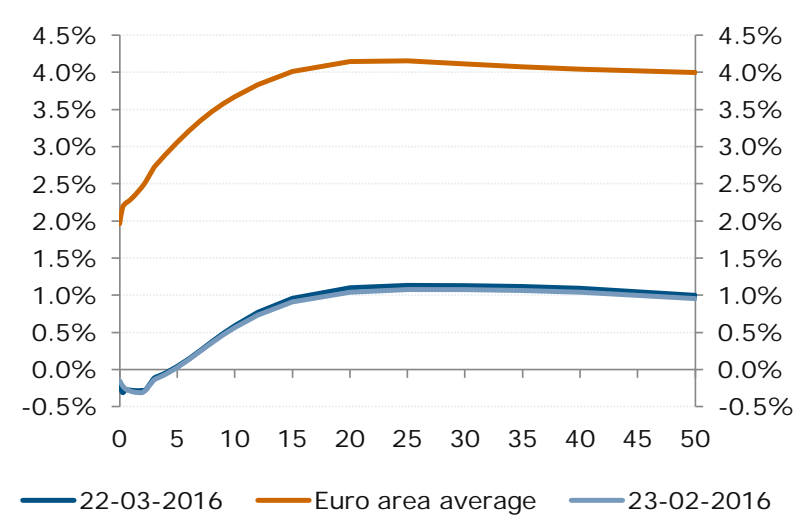
EUR swap rates and implied forwards, %



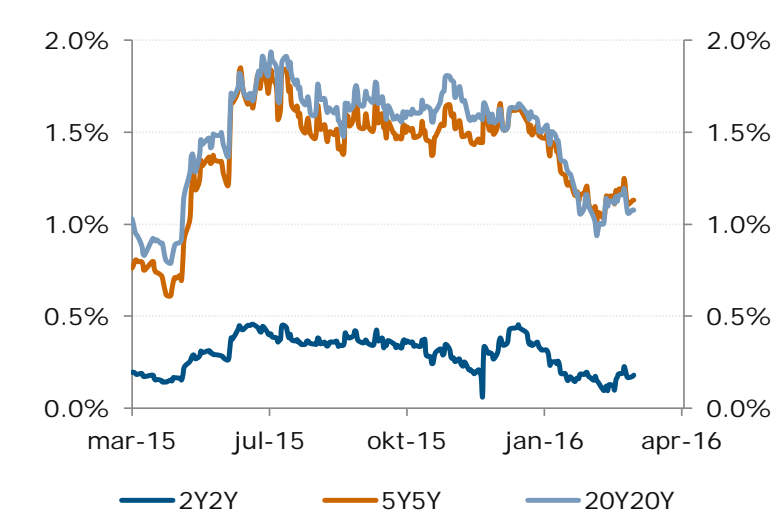
EUR-USD spreads and implied forwards, %



EUR swap curve shape vs. historical



Historical forward rates, %



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

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

EUR swap curve slopes and forwards



Curvature (EUR swap curve)

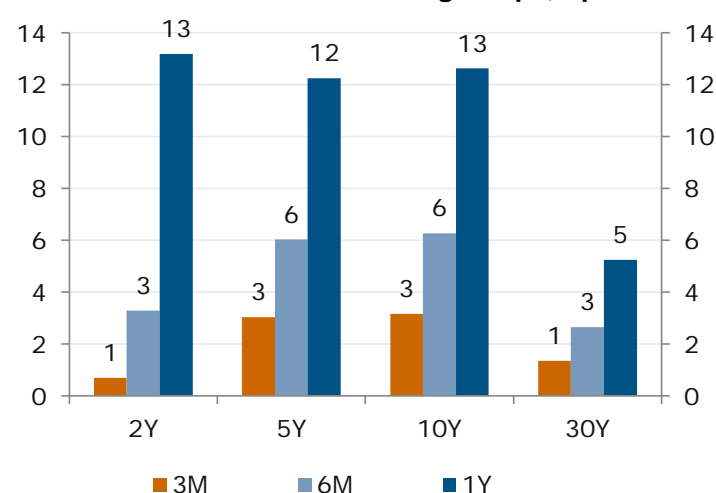


Carry

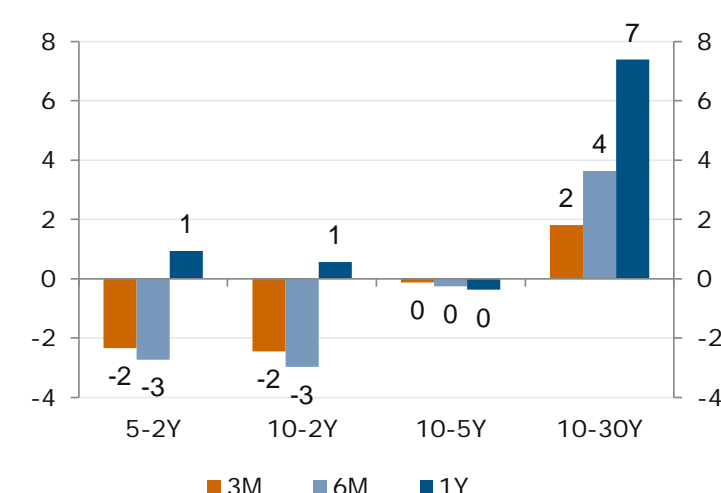
The carry on the given horizon illustrates how much the spot swap rate may rise for a receiver swap position in a forward-starting swap to result in zero profit.

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

Yield buffers for forward-starting swaps, bp



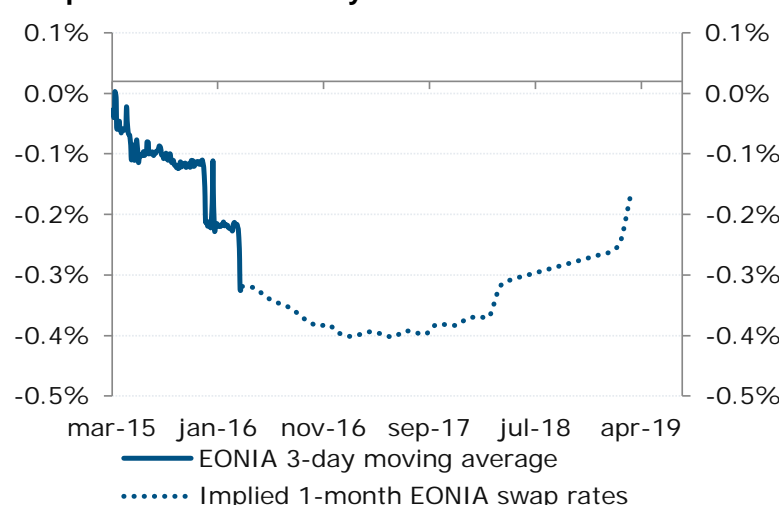
Yield buffers for duration-neutral steepeners, bp



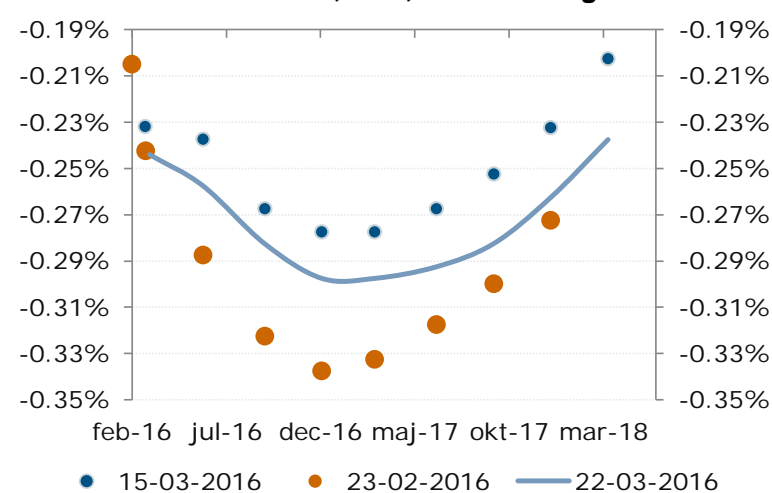
Money Market Rates

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

Expectations and history for EONIA



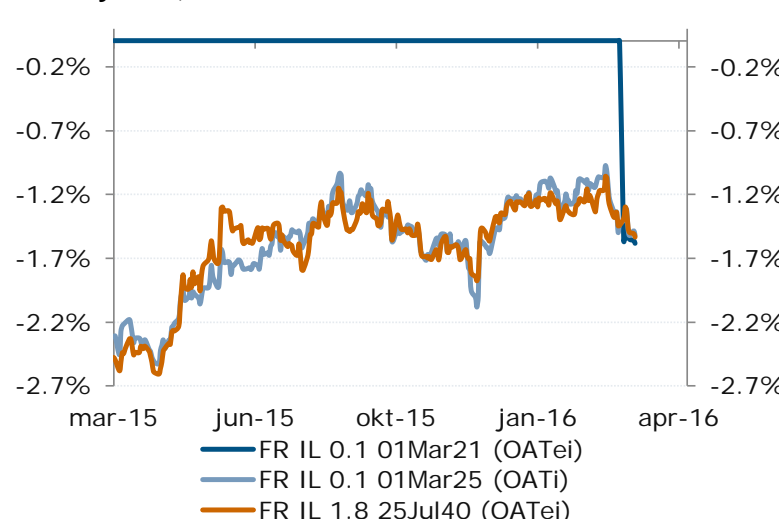
Euribor futures curve, now, 1 wk & 1M ago



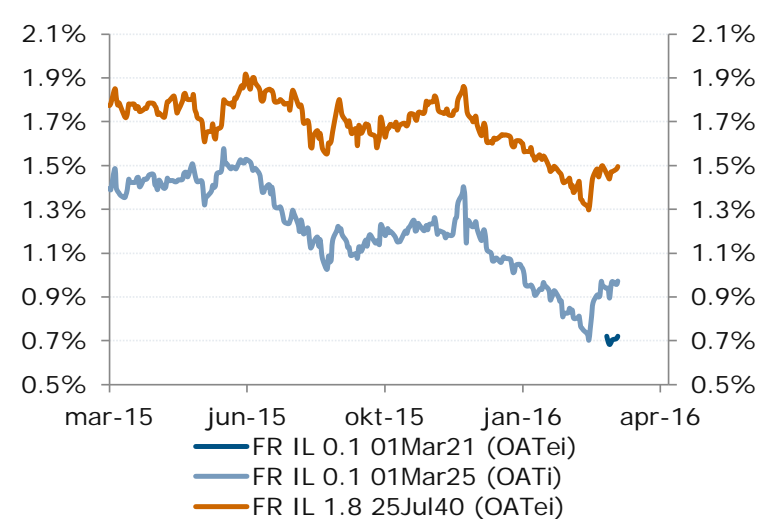
Inflation-linked Bonds

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

Real yields, %



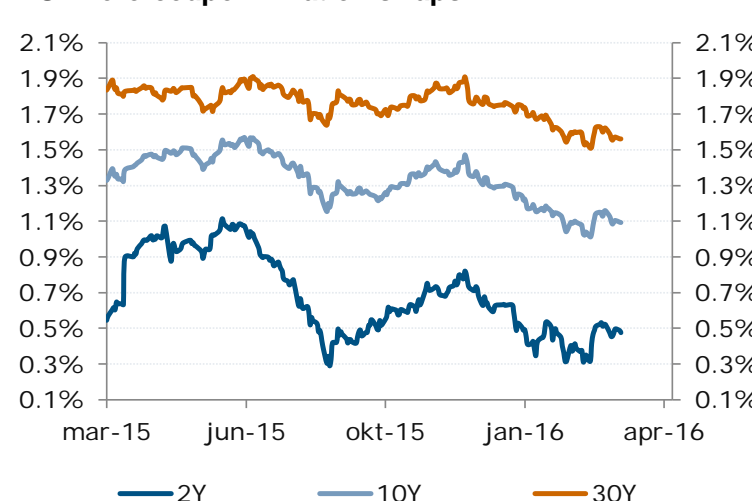
Break-even inflation history, %



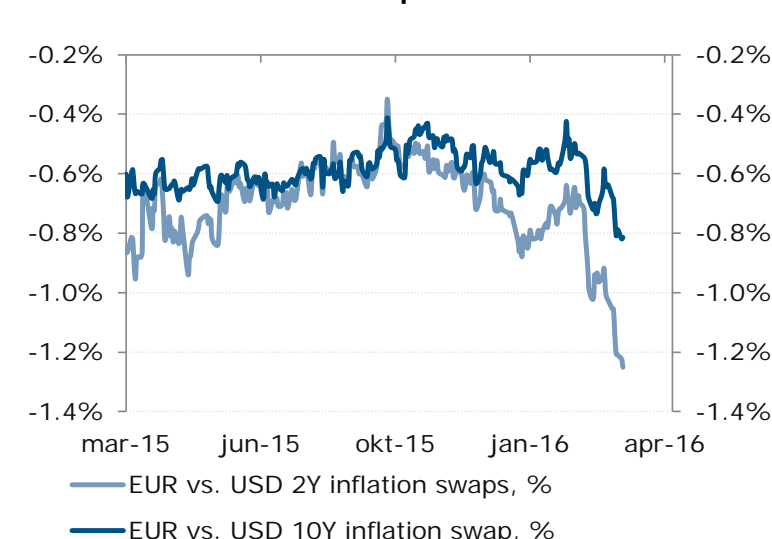
Inflation Swaps

A zero-coupon inflation swap is a derivative contract, in which one party pays a fixed rate (the break-even inflation rate) and the other party pays a floating rate based on realized inflation. The zero-coupon inflation swap illustrates the average expected inflation rate during the life of the swap.

EUR zero-coupon inflation swaps



EUR vs. USD inflation swaps



Credit & Money Market Spreads

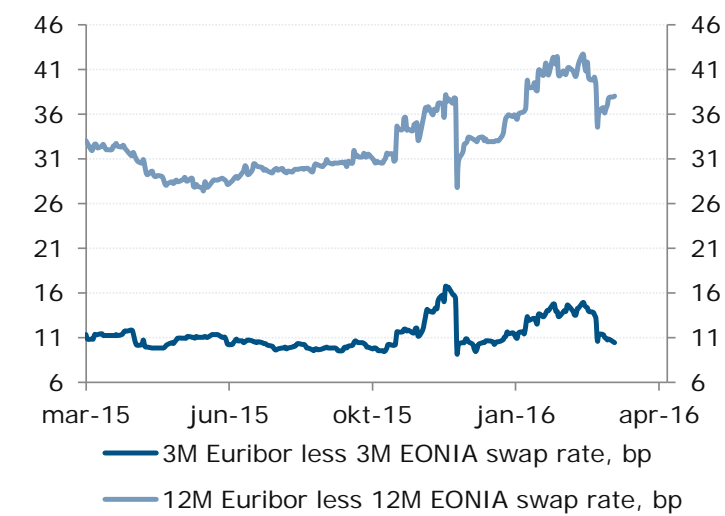
Credit default swap indices illustrate the annual cost of buying protection against a credit event of a company. iTraxx® Europe is comprised of the 125 most liquid CDS contracts referencing European investment grade credits, iTraxx® Crossover of 50 sub-investment grade credits.

The spread between Euribor and EONIA swap rate illustrates the money market credit risk premium, i.e. the difference between Euribor rates and the expected future ECB minimum bid rate.

iTraxx® credit default swap spreads



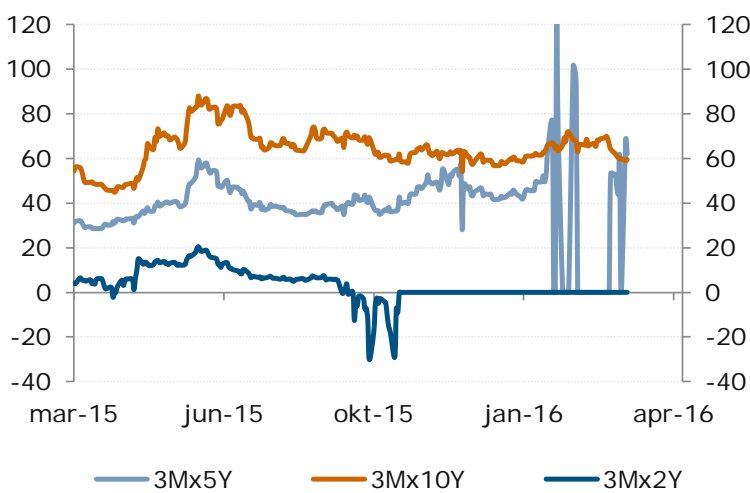
Money market rates vs. EONIA swap rates



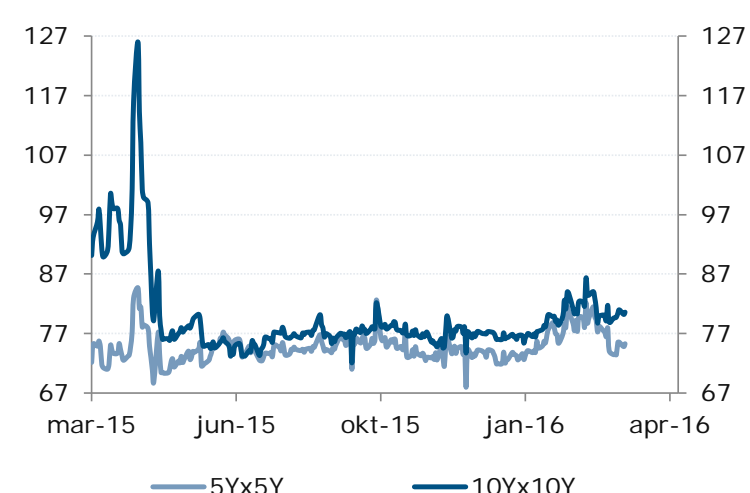
Swaption Volatilities

ATMF (At The Money Forward) swaption bp vol measures the normalized volatility, i.e. the absolute changes in the forward rate in basis points.

Short-dated ATMF swaption bp vol



Long-dated ATMF swaption bp vol



Swap & Cross-country Spreads

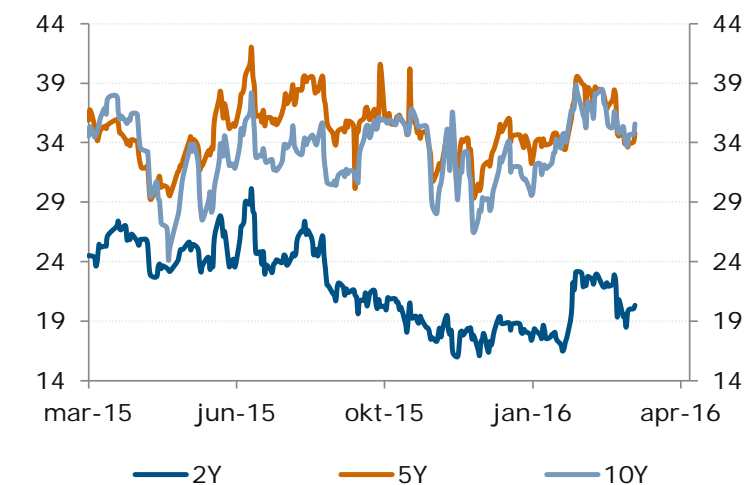
Swap spread:
Benchmark bond's spread to EUR swap curve.

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

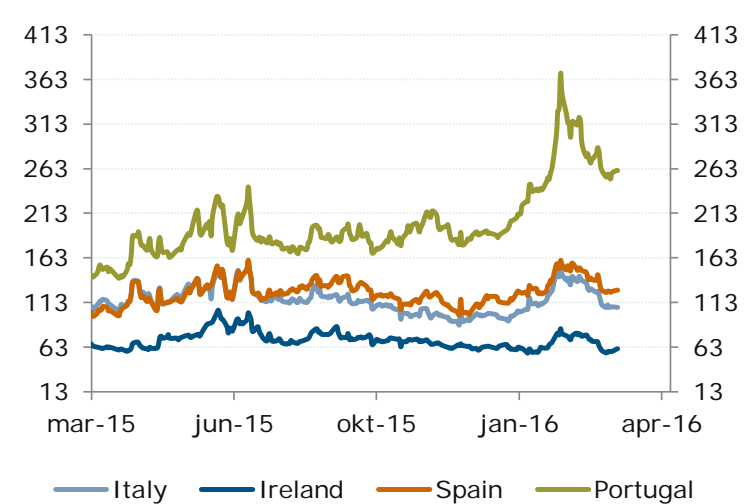
1Y break-even spread changes indicate how much a bond's spread against an equivalent bond trading on the German curve may widen in order to give the same return in one year.

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

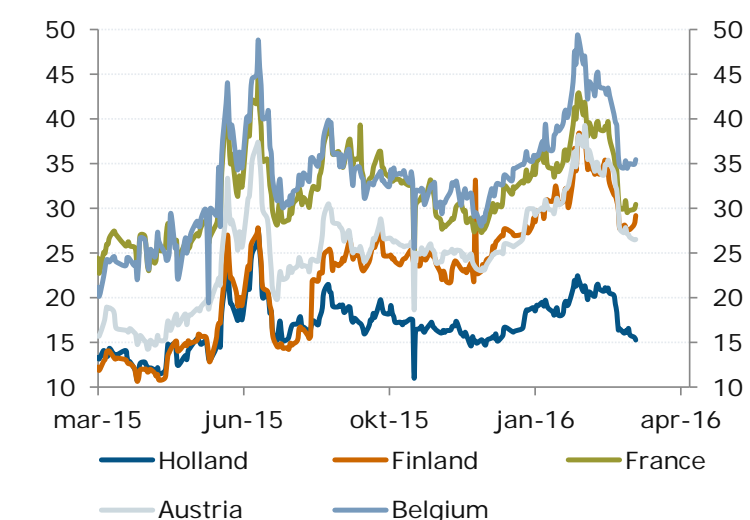
German swap spreads, bp



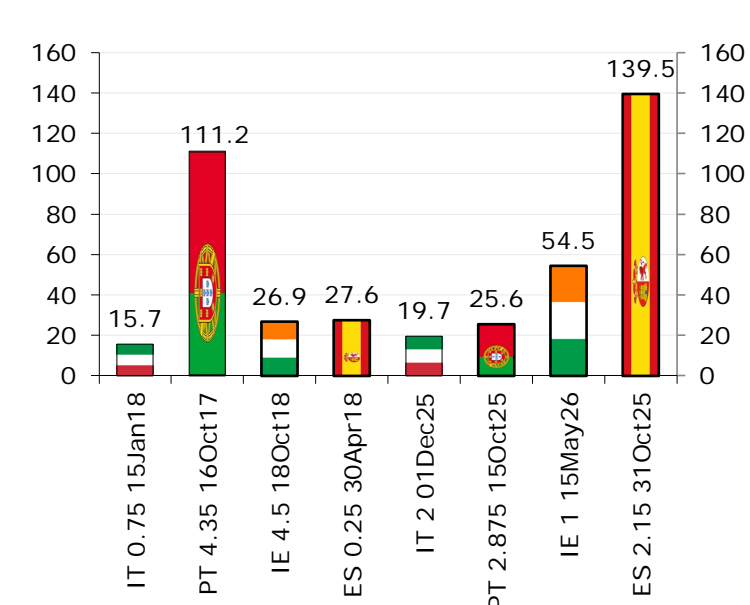
10Y non-AAA spreads against Germany, bp



10Y AAA/AA+ spreads to Germany, bp



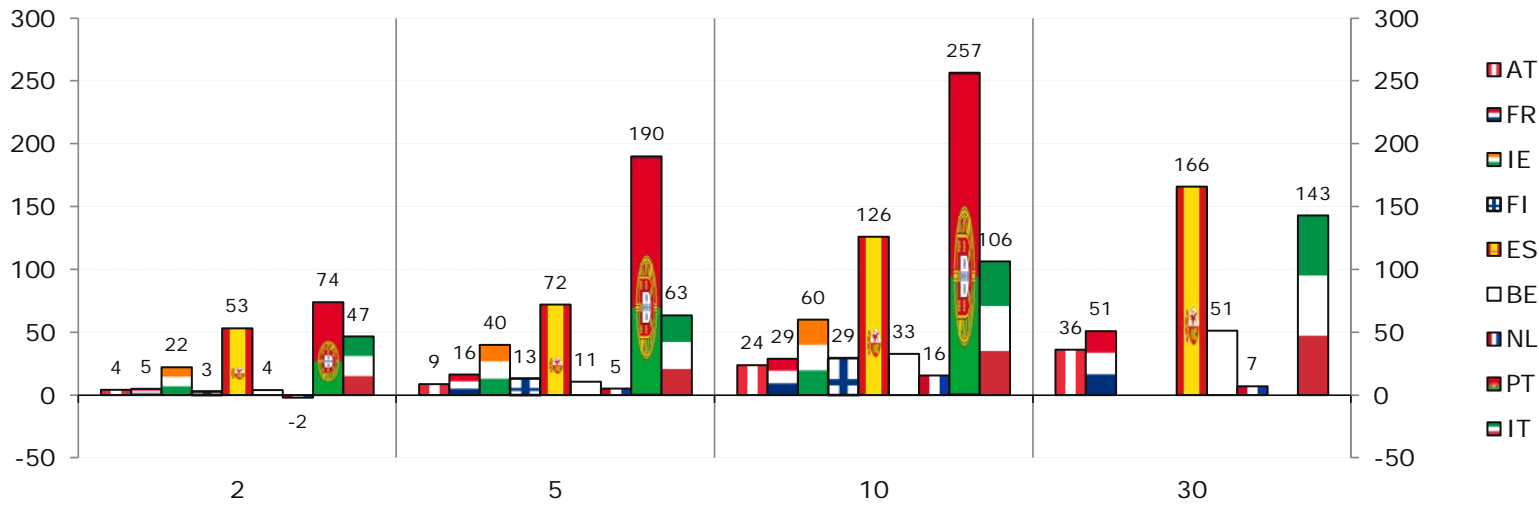
1Y B/E spread changes against Germany, bp



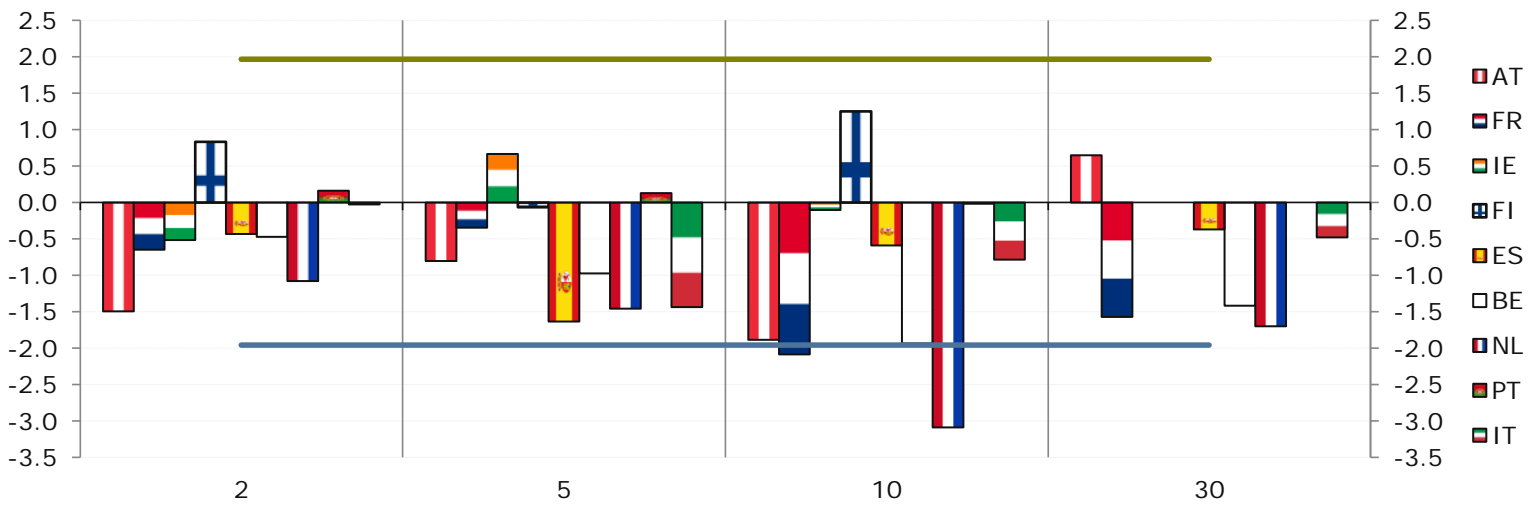


Country Relative Value

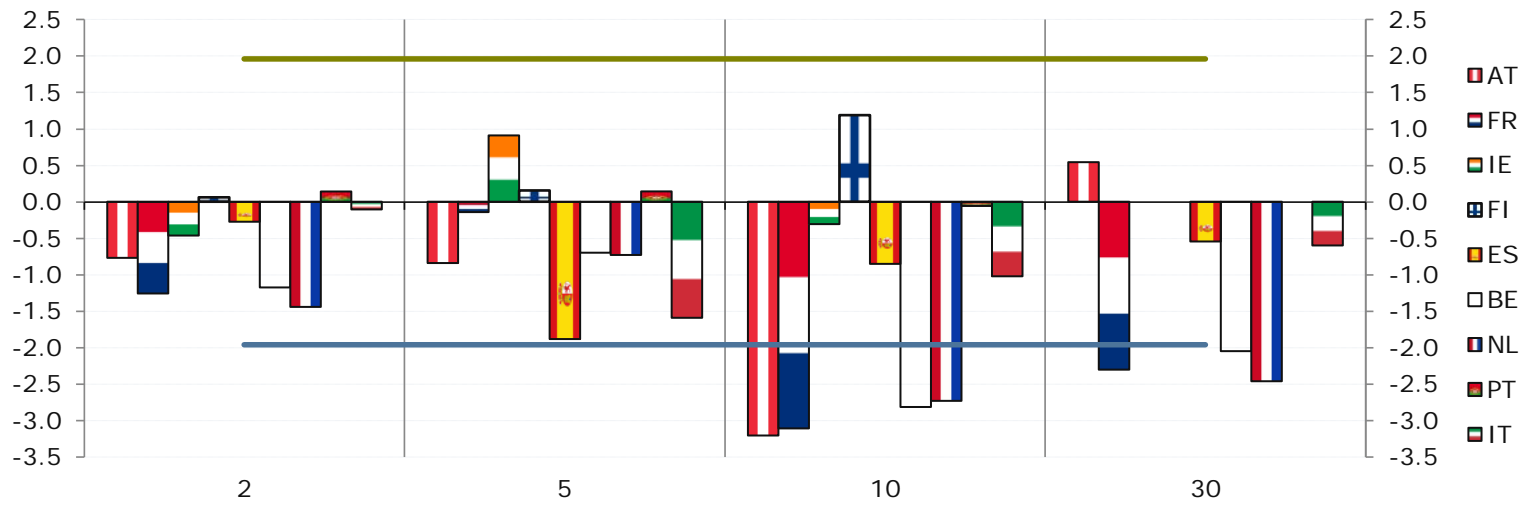
Benchmark spreads over the maturity-interpolated German par curve, bp



Z-scores of benchmark vs. Germany



Z-scores of benchmark vs. swap curve



The richest and cheapest benchmark bonds against Germany and the swap curve by sectors:

Against German Curve						Against Swap Curve				
	Issue	Maturity	Coupon	Spread	Z-score	Issue	Maturity	Coupon	Spread	Z-score
2Y: Rich	KfW	18 mar 19	0.875	12.8	-1.77	KfW	18 mar 19	0.875	-22.3	-3.55
	DE	16 mar 18	0.000	-7.8	1.41	DE	16 mar 18	0.000	-32.5	0.94
5Y: Rich	EIB	15 apr 21	1.500	8.1	-2.39	EIB	15 apr 21	1.500	-25.8	-2.96
	DE	09 apr 21	0.000	-17.1	1.33	DE	09 apr 21	0.000	-34.2	1.15
7Y: Rich	BE	22 jun 23	2.250	21.6	-2.31	EIB	14 apr 23	2.000	-24.9	-2.79
	DE	15 aug 24	1.000	-27.9	1.89	IE	20 mar 23	3.900	21.0	0.31
10Y: Rich	NL	15 jul 25	0.250	15.6	-2.94	AT	21 okt 24	1.650	-14.8	-3.20
	DE	15 feb 25	0.500	-26.9	1.96	PT	15 okt 25	2.875	218.7	-0.02
15Y: Rich	NL	15 jan 37	0.000	11.0	-2.14	NL	15 jan 37	0.000	-15.8	-3.95
	DE	04 jan 31	5.500	-45.8	1.61	KfW	31 jul 35	1.375	-5.4	0.36
20Y: Rich	NL	15 jan 47	2.750	7.0	-1.67	NL	15 jan 47	2.750	-0.3	-2.16
	DE	15 aug 46	2.500	-64.7	1.24	EIB	15 sep 45	1.750	15.5	0.46

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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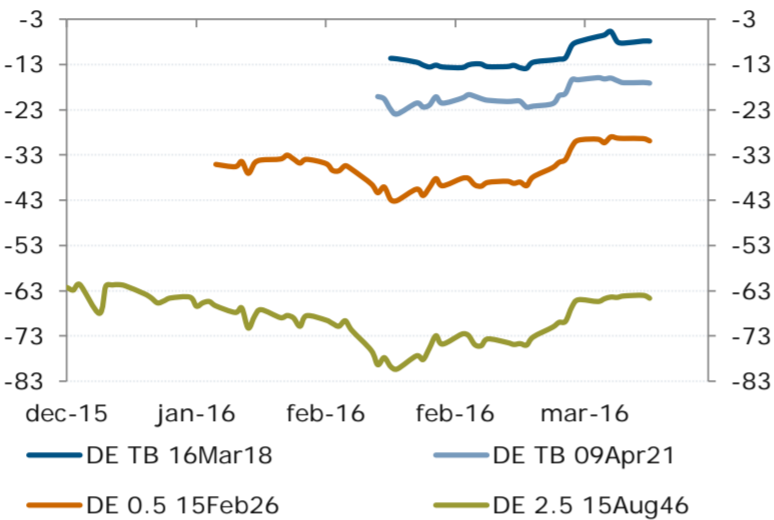
Moody's / S&P / Fitch

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

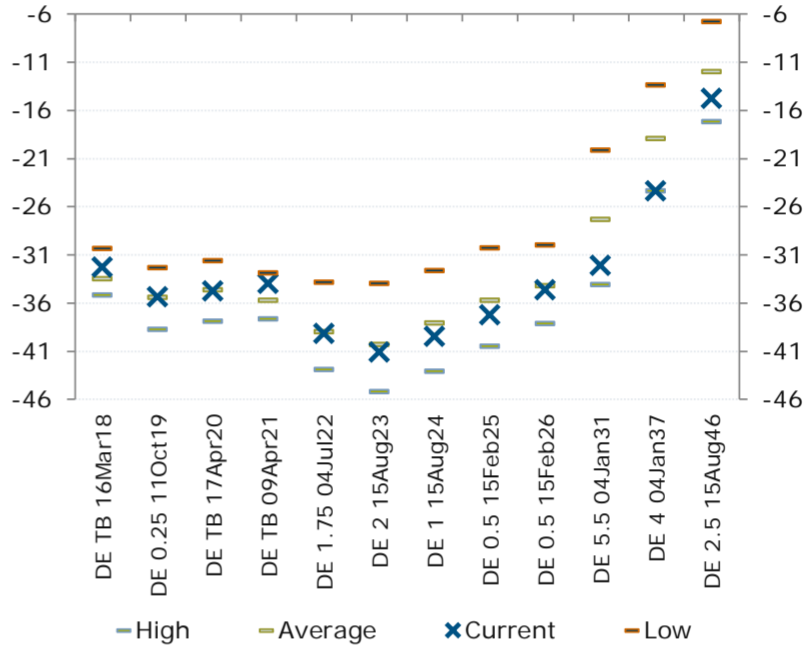
Germany

Benchmark Bonds				Spread vs. France				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
0.000	16 mar 18	9.0B	-0.479	-7.8	-11.2	1.41	-0.1	-32.5	-33.8	0.94
0.250	11 okt 19	16.0B	-0.436	-15.5	-17.2	1.02	0.8	-35.6	-35.7	0.04
0.000	17 apr 20	20.0B	-0.394	-16.1	-17.2	0.61	1.1	-35.0	-34.9	-0.06
0.000	09 apr 21	9.0B	-0.300	-17.1	-19.8	1.33	-31.1	-34.2	-36.0	1.15
1.750	04 jul 22	24.0B	-0.227	-23.4	-26.3	1.26	1.4	-39.4	-39.2	-0.09
2.000	15 aug 23	18.0B	-0.123	-27.3	-31.3	1.60	0.8	-41.3	-40.5	-0.31
1.000	15 aug 24	18.0B	0.007	-27.9	-33.1	1.89	14.5	-39.7	-38.3	-0.55
0.500	15 feb 25	23.0B	0.087	-26.9	-32.9	1.96	0.0	-37.5	-36.0	-0.63
0.500	15 feb 26	14.0B	0.214	-29.9	-36.0	1.83	-0.4	-34.9	-34.5	-0.22
5.500	04 jan 31	17.0B	0.516	-45.8	-52.0	1.61	-0.1	-32.4	-27.6	-1.64
4.000	04 jan 37	23.0B	0.760	-57.4	-62.0	1.06	-0.2	-24.6	-19.2	-2.68
2.500	15 aug 46	14.0B	0.914	-64.7	-69.8	1.24	-0.2	-15.0	-12.3	-1.35

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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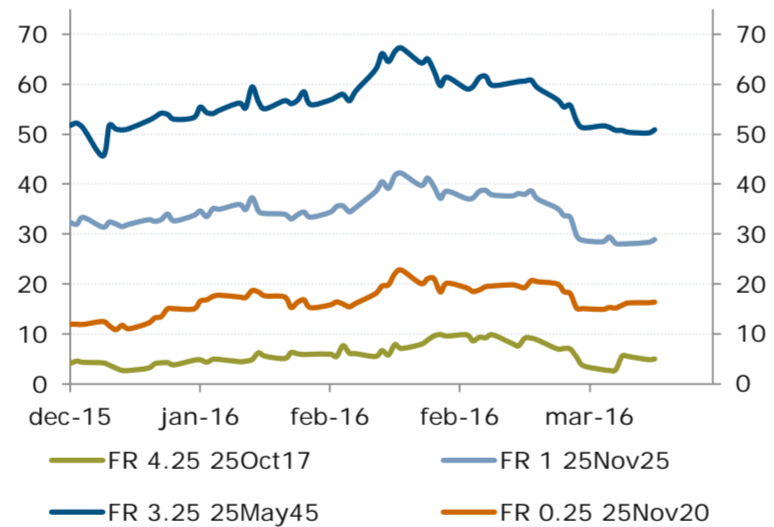
Moody's / S&P / Fitch

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

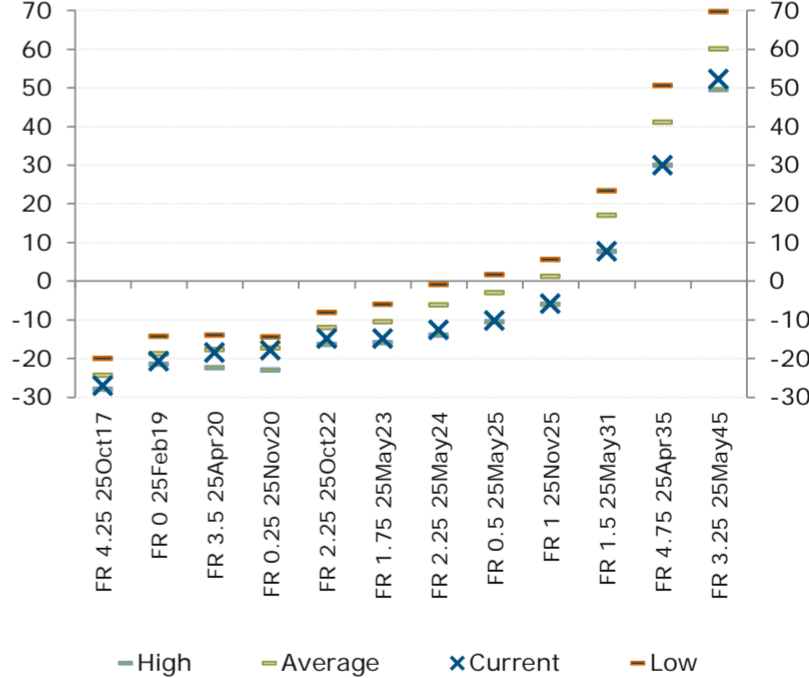
France

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
4.250	25 okt 17	34.03B	-0.426	5.0	6.1	-0.66	1.9	-27.1	-24.5	-1.78
0.000	25 feb 19	9.48B	-0.329	14.0	15.0	-0.63	-0.9	-20.8	-18.8	-1.71
3.500	25 apr 20	37.27B	-0.237	15.2	15.7	-0.29	0.0	-18.6	-17.8	-0.53
0.250	25 nov 20	24.82B	-0.170	16.4	17.2	-0.39	-0.5	-17.9	-17.4	-0.35
2.250	25 okt 22	30.02B	0.035	22.0	24.3	-0.98	-0.1	-15.0	-12.1	-1.33
1.750	25 maj 23	33.97B	0.104	23.4	26.7	-1.57	0.0	-14.9	-10.5	-1.92
2.250	25 maj 24	30.55B	0.230	24.0	28.7	-1.85	0.4	-12.8	-6.2	-2.38
0.500	25 maj 25	31.02B	0.393	26.7	33.1	-2.27	0.6	-10.2	-3.0	-3.07
1.000	25 nov 25	25.99B	0.477	28.9	34.8	-2.02	0.8	-5.9	1.2	-3.04
1.500	25 maj 31	12.01B	0.990	39.4	45.6	-1.61	-0.3	7.6	16.9	-3.20
4.750	25 apr 35	25.03B	1.142	35.0	40.4	-1.33	-0.3	29.9	41.1	-2.49
3.250	25 maj 45	17.01B	1.462	50.9	56.9	-1.56	0.3	52.2	60.1	-1.50

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

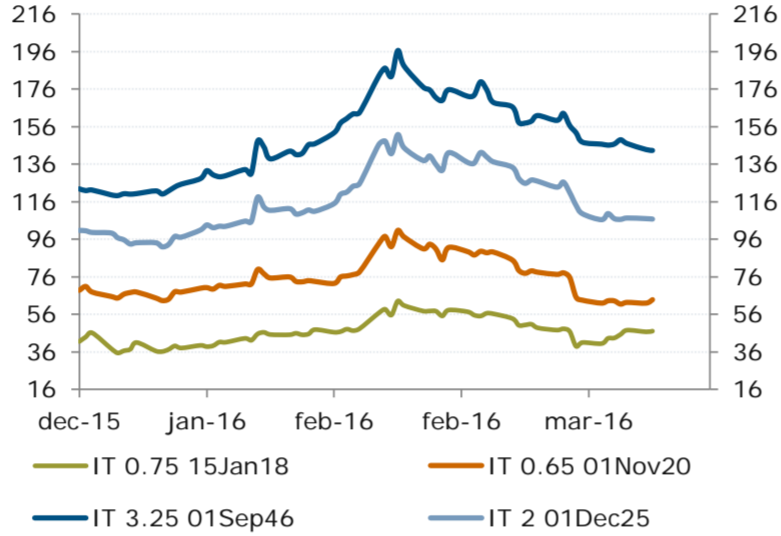
Rating	Baa2/BBB-/BBB+
Moody's / S&P / Fitch	

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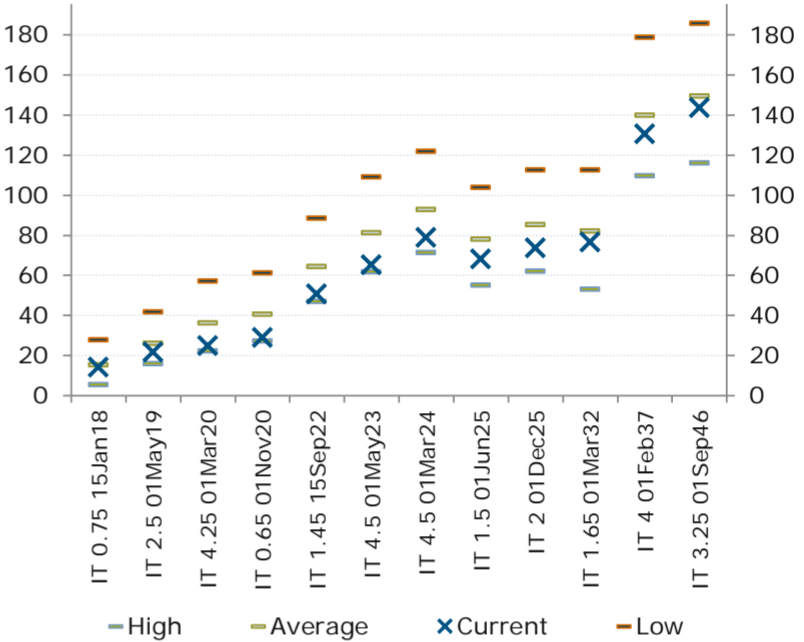
Italy

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
0.750	15 jan 18	15.46B	-0.012	46.7	46.9	-0.04	332.1	14.2	15.2	-0.20
2.500	01 maj 19	18.01B	0.095	55.5	58.2	-0.43	1.4	21.7	25.9	-0.75
4.250	01 mar 20	24.01B	0.155	55.7	66.1	-1.26	0.9	24.8	36.1	-1.49
0.650	01 nov 20	14.02B	0.295	63.5	76.0	-1.41	2.0	28.8	40.5	-1.54
1.450	15 sep 22	17.03B	0.687	88.2	102.3	-1.20	3.8	50.7	64.2	-1.35
4.500	01 maj 23	18.02B	0.793	93.0	107.0	-1.15	3.1	65.2	81.1	-1.42
4.500	01 mar 24	23.71B	1.001	104.2	116.1	-0.90	2.7	78.8	92.7	-1.13
1.500	01 jun 25	19.99B	1.175	104.7	114.8	-0.72	2.1	68.0	77.9	-0.85
2.000	01 dec 25	17.01B	1.254	106.4	117.9	-0.79	2.3	73.5	85.1	-0.94
1.650	01 mar 32	16.01B	1.760	112.1	116.2	-0.25	4.9	76.4	82.0	-0.39
4.000	01 feb 37	26.01B	2.134	129.1	137.3	-0.49	-2.2	130.5	139.7	-0.53
3.250	01 sep 46	13.24B	2.390	143.0	151.6	-0.51	1.3	143.5	149.4	-0.34

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

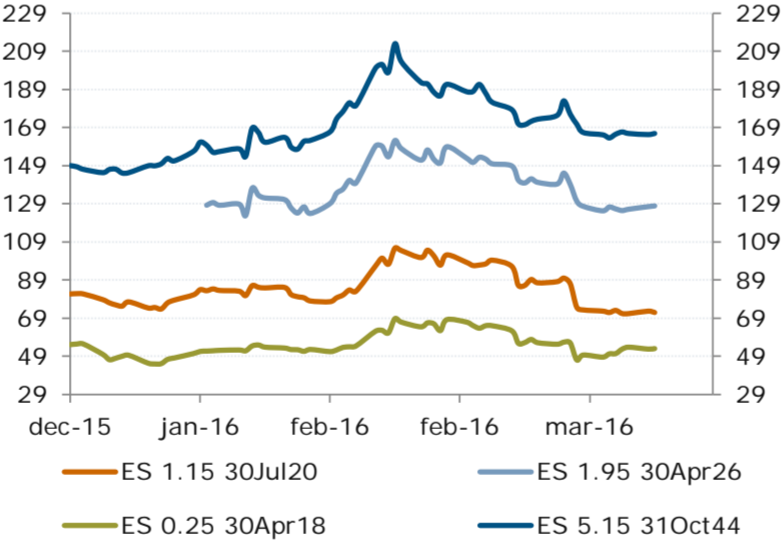
Rating	Baa2/BBB/BBB+
Moody's / S&P / Fitch	

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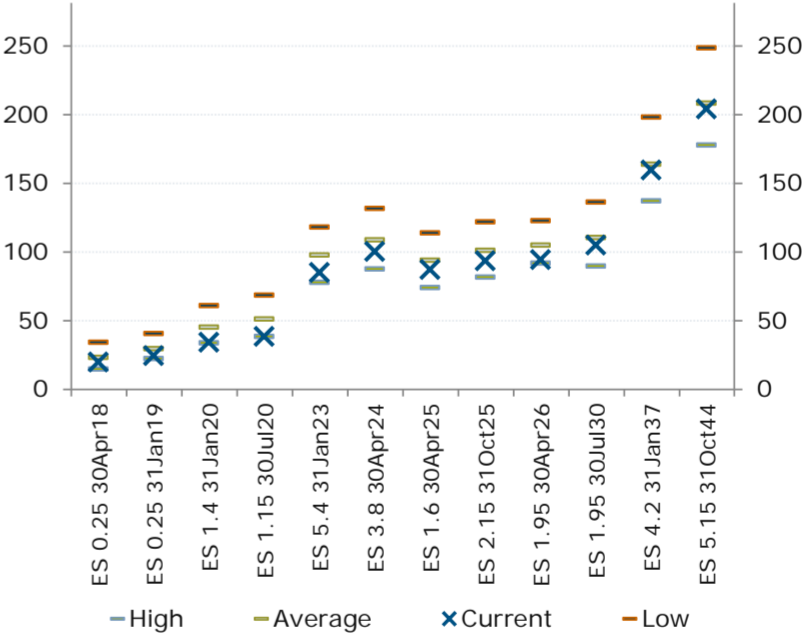
Spain

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
0.250	30 apr 18	16.99B	0.051	53.1	55.4	-0.42	201.2	19.8	23.2	-0.80
0.250	31 jan 19	5.46B	0.125	59.4	64.7	-0.95	-25.1	24.3	29.3	-1.02
1.400	31 jan 20	21.91B	0.272	68.0	79.0	-1.42	-0.2	33.9	45.0	-1.70
1.150	30 jul 20	17.02B	0.356	72.1	85.4	-1.59	-60.2	38.1	51.0	-1.81
5.400	31 jan 23	21.99B	0.908	107.0	117.9	-1.07	-0.5	84.8	97.5	-1.34
3.800	30 apr 24	21.99B	1.244	126.4	133.6	-0.63	0.3	100.0	108.4	-0.84
1.600	30 apr 25	19.09B	1.357	124.0	131.0	-0.60	0.6	86.9	93.8	-0.72
2.150	31 okt 25	20.96B	1.440	126.0	133.2	-0.60	15.6	93.5	100.8	-0.74
1.950	30 apr 26	13.43B	1.515	127.9	139.2	-1.06	14.8	94.3	104.8	-1.21
1.950	30 jul 30	12.31B	1.964	141.4	145.6	-0.33	7.2	104.6	110.2	-0.53
4.200	31 jan 37	17.02B	2.391	154.8	158.2	-0.26	0.3	159.6	163.7	-0.29
5.150	31 okt 44	11.23B	2.610	165.9	171.2	-0.40	-0.1	203.7	208.1	-0.27

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

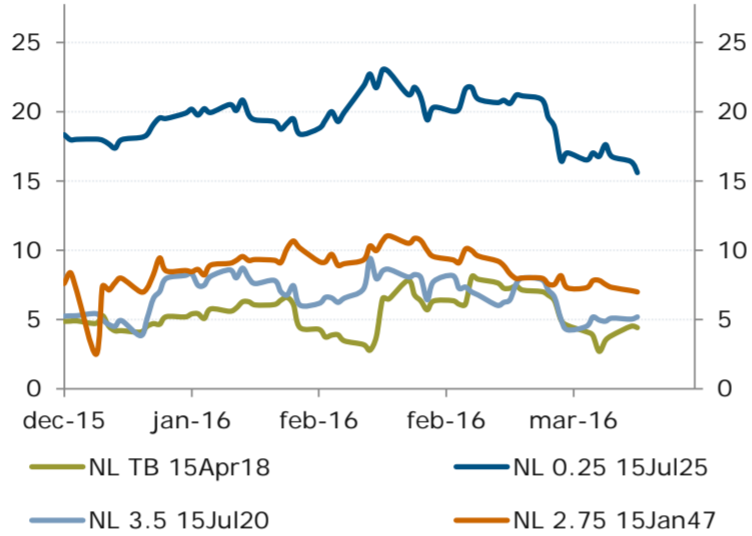
Rating	Aaa/AA+/AAA
Moody's / S&P / Fitch	

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

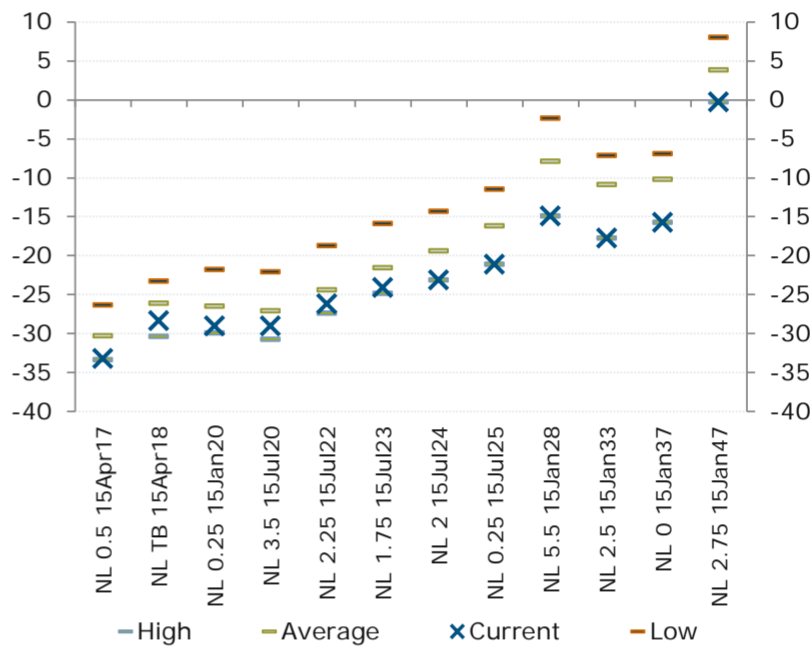
Netherlands

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
0.500	15 apr 17	13.03B	-0.489	-2.0	-1.0	-1.05	8.5	-33.3	-30.3	-2.14
0.000	15 apr 18	15.99B	-0.436	4.4	5.5	-0.88	-1.1	-28.4	-26.2	-1.42
0.250	15 jan 20	15.84B	-0.353	5.8	8.1	-1.90	-73.5	-29.1	-26.6	-1.41
3.500	15 jul 20	15.02B	-0.316	5.2	6.8	-1.45	0.3	-29.1	-27.1	-0.97
2.250	15 jul 22	15.01B	-0.101	10.9	12.3	-0.96	-0.1	-26.3	-24.4	-1.19
1.750	15 jul 23	15.63B	0.032	14.5	16.1	-1.07	-0.2	-24.1	-21.6	-1.63
2.000	15 jul 24	15.32B	0.148	13.9	16.0	-1.58	0.1	-23.2	-19.4	-2.25
0.250	15 jul 25	15.01B	0.299	15.6	19.6	-2.94	-0.8	-21.2	-16.2	-2.90
5.500	15 jan 28	13.02B	0.480	11.1	12.2	-0.49	0.5	-14.9	-7.9	-3.03
2.500	15 jan 33	12.01B	0.766	7.8	10.1	-1.11	0.4	-17.8	-10.9	-3.56
0.000	15 jan 37	0.0B	0.951	11.0	15.1	-2.14	-0.7	-15.8	-10.3	-3.95
2.750	15 jan 47	10.99B	1.032	7.0	8.8	-1.67	0.0	-0.3	3.8	-2.16

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

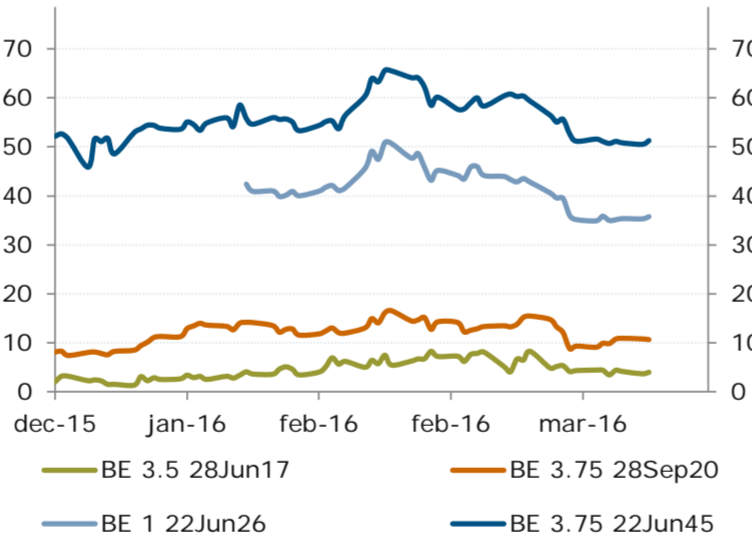
Rating	Aa3/AA/AA
Moody's / S&P / Fitch	

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

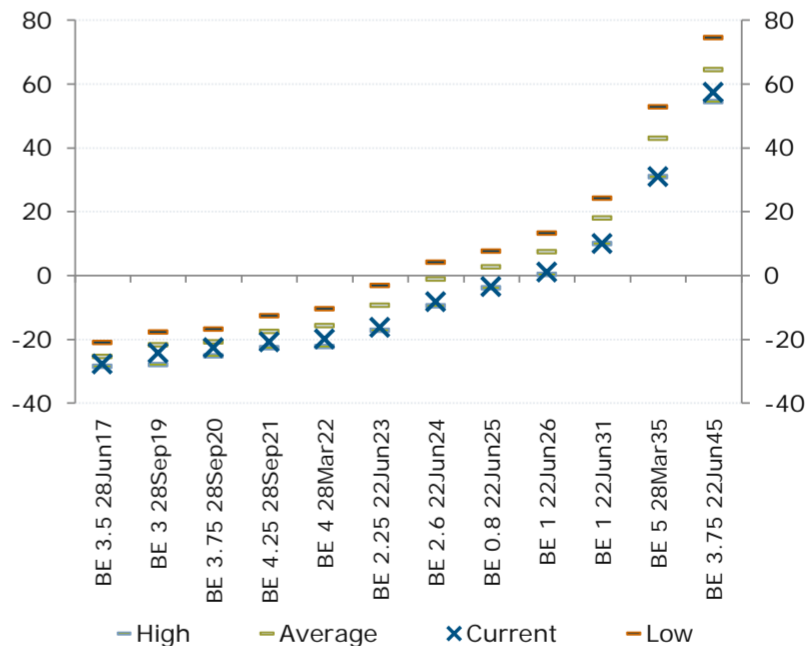
Belgium

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
3.500	28 jun 17	13.34B	-0.432	4.0	4.8	-0.50	3.4	-27.7	-25.4	-1.86
3.000	28 sep 19	12.01B	-0.328	10.3	12.1	-1.11	0.1	-24.3	-21.6	-1.42
3.750	28 sep 20	19.01B	-0.242	10.7	12.4	-1.02	-1.6	-22.7	-20.8	-0.95
4.250	28 sep 21	15.98B	-0.139	13.0	16.1	-1.44	-0.8	-20.8	-17.5	-1.15
4.000	28 mar 22	14.02B	-0.083	15.3	18.7	-1.55	0.0	-19.9	-15.7	-1.42
2.250	22 jun 23	13.99B	0.096	21.6	27.1	-2.31	0.1	-16.2	-9.4	-2.06
2.600	22 jun 24	15.85B	0.274	27.4	32.7	-1.99	0.4	-8.3	-1.1	-2.54
0.800	22 jun 25	16.02B	0.464	32.8	38.1	-1.89	0.5	-3.5	2.7	-2.91
1.000	22 jun 26	6.24B	0.604	35.8	41.9	-1.74	0.3	1.2	7.5	-2.32
1.000	22 jun 31	4.52B	1.046	44.5	50.0	-1.64	0.1	10.0	18.1	-3.07
5.000	28 mar 35	19.01B	1.138	34.8	40.7	-1.64	0.1	31.0	43.0	-2.93
3.750	22 jun 45	8.01B	1.467	51.3	56.1	-1.41	0.1	57.4	64.5	-1.34

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

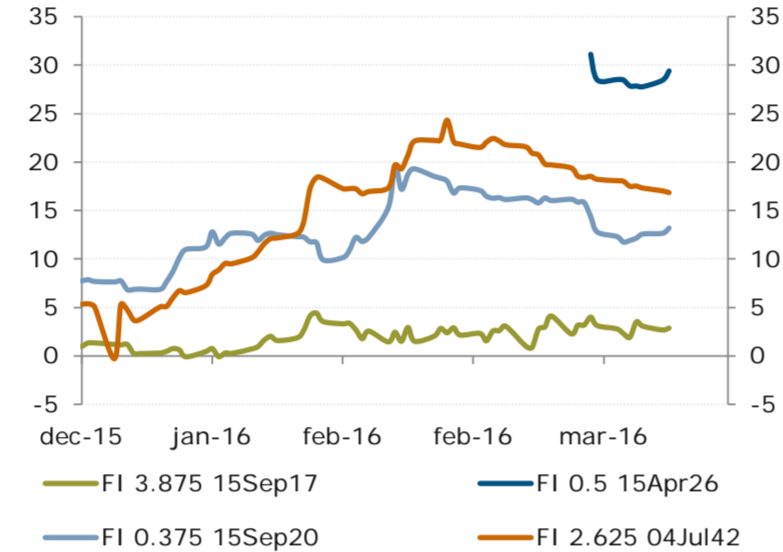
Source: European Commission, Winter 2015 forecast

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

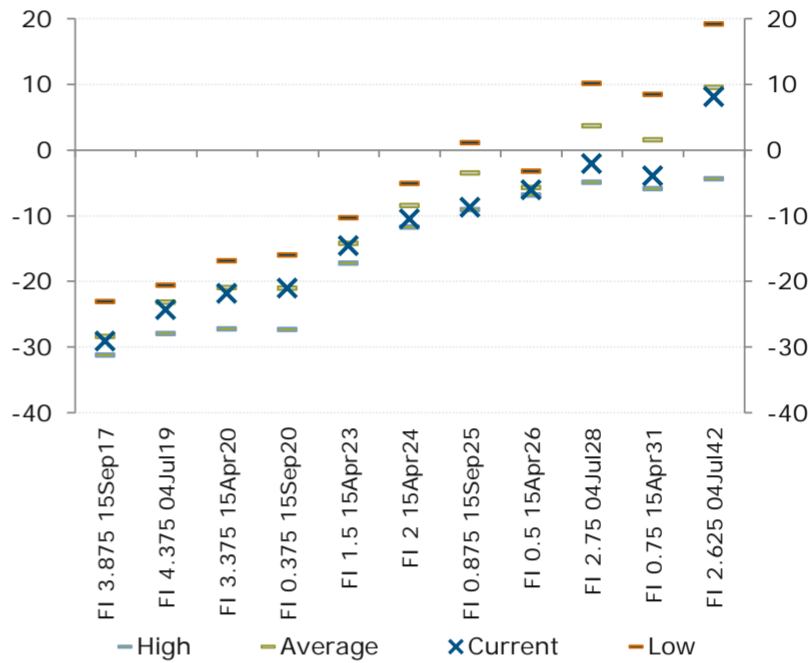
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
3.875	15 sep 17	6.0B	-0.446	2.9	2.1	0.81	2.1	-29.1	-28.3	-0.47
4.375	04 jul 19	5.0B	-0.341	10.7	10.3	0.23	0.4	-24.3	-23.2	-1.03
3.375	15 apr 20	6.5B	-0.269	12.3	12.7	-0.19	0.6	-21.8	-21.0	-0.56
0.375	15 sep 20	6.03B	-0.220	13.2	13.5	-0.10	0.6	-21.0	-21.1	0.03
1.500	15 apr 23	5.0B	0.099	24.1	23.7	0.16	0.5	-14.5	-14.2	-0.23
2.000	15 apr 24	5.0B	0.242	26.7	27.3	-0.22	0.2	-10.5	-8.5	-1.28
0.875	15 sep 25	4.03B	0.431	26.7	30.9	-1.59	-0.3	-8.7	-3.5	-2.78
0.500	15 apr 26	4.0B	0.526	29.4	28.7	0.93	0.2	-6.1	-5.7	-0.38
2.750	04 jul 28	5.0B	0.684	27.9	29.0	-0.24	-0.8	-2.1	3.7	-1.80
0.750	15 apr 31	3.5B	0.899	30.9	33.3	-0.56	0.4	-4.0	1.5	-1.73
2.625	04 jul 42	4.03B	1.107	16.8	15.8	0.21	0.0	8.1	9.6	-0.24

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

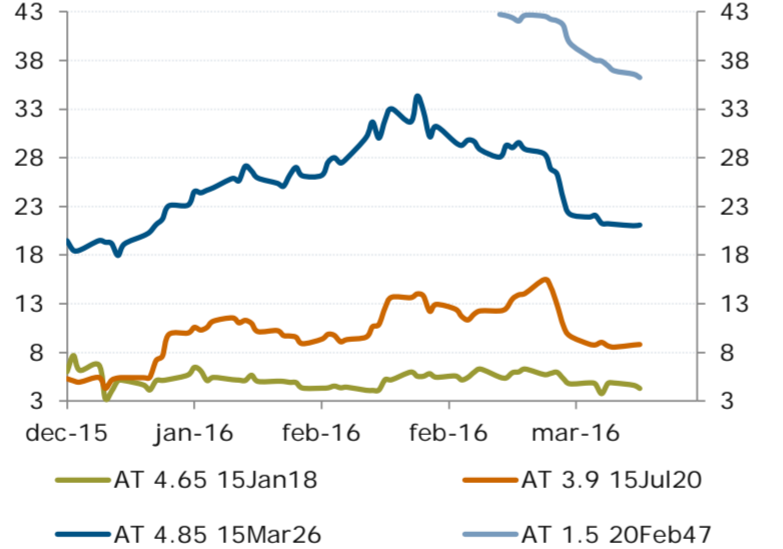
Source: European Commission, Winter 2015 forecast

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

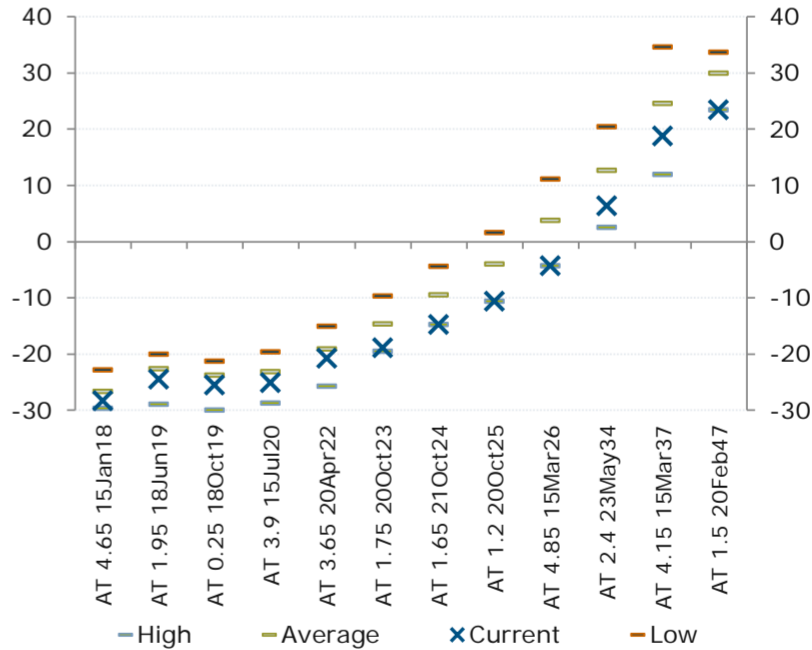
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
4.650	15 jan 18	12.06B	-0.437	4.2	5.0	-1.44	0.0	-28.4	-26.7	-1.04
1.950	18 jun 19	7.21B	-0.344	10.7	11.0	-0.23	0.0	-24.5	-22.7	-1.20
0.250	18 okt 19	7.95B	-0.334	9.4	10.5	-0.58	0.3	-25.5	-23.8	-1.16
3.900	15 jul 20	13.01B	-0.281	8.7	10.4	-0.86	1.7	-25.2	-23.2	-1.22
3.650	20 apr 22	8.71B	-0.083	14.8	16.0	-0.52	1.2	-20.8	-19.1	-0.97
1.750	20 okt 23	9.99B	0.111	19.4	22.5	-1.09	-0.6	-18.9	-14.6	-2.39
1.650	21 okt 24	10.35B	0.262	21.5	25.3	-1.38	-0.9	-14.8	-9.5	-3.20
1.200	20 okt 25	9.28B	0.414	23.8	29.1	-1.87	-1.1	-10.7	-4.1	-3.19
4.850	15 mar 26	8.01B	0.435	21.0	26.1	-1.54	-0.9	-4.3	3.7	-2.68
2.400	23 maj 34	5.19B	1.029	27.0	29.6	-0.66	1.0	6.4	12.7	-1.81
4.150	15 mar 37	12.22B	1.103	25.7	27.3	-0.41	0.9	18.8	24.6	-1.22
1.500	20 feb 47	1.5B	1.324	36.1	40.0	-1.58	-2.5	23.4	29.9	-1.90

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

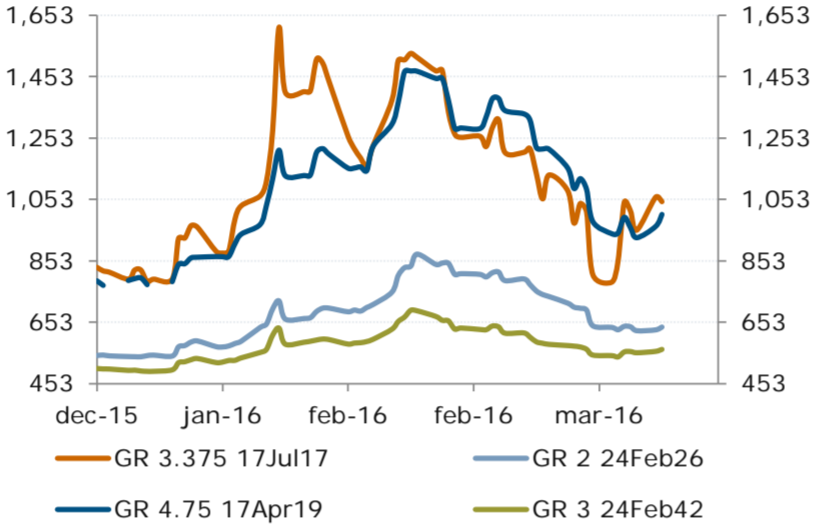
Source: European Commission, Winter 2015 forecast

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

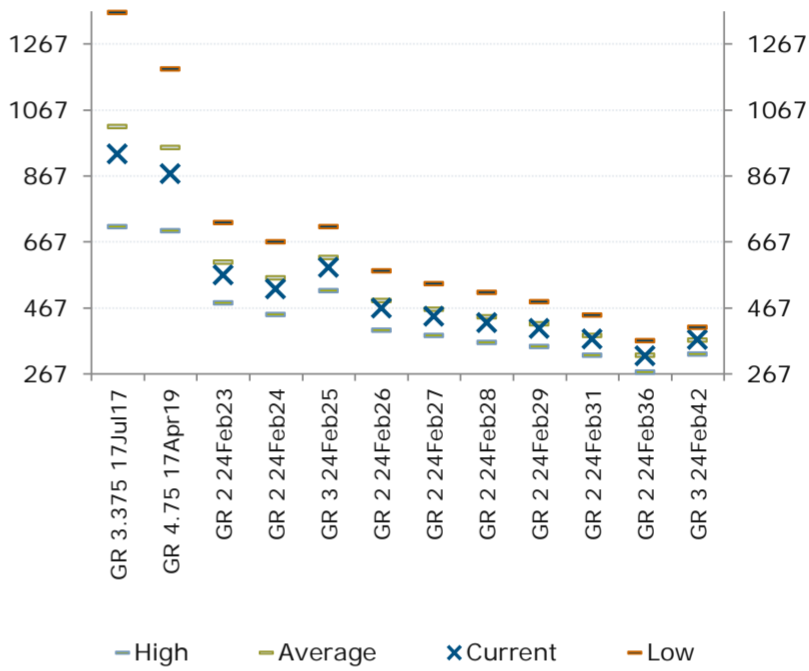
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
3.375	17 jul 17	2.02B	9.987	1,045.9	1,157.0	-0.56	503.2	932.7	1,015.4	-0.53
4.750	17 apr 19	4.02B	9.581	1,004.3	1,122.3	-0.68	94.1	873.9	953.0	-0.63
2.000	24 feb 23	1.04B	7.273	742.9	819.3	-0.74	35.5	567.0	605.1	-0.63
2.000	24 feb 24	1.25B	6.934	697.7	769.5	-0.77	35.1	523.5	558.1	-0.65
3.000	24 feb 25	1.84B	7.959	786.4	857.9	-0.79	47.8	588.3	618.8	-0.64
2.000	24 feb 26	1.37B	6.591	637.2	693.6	-0.72	43.4	464.9	489.1	-0.57
2.000	24 feb 27	1.21B	6.470	617.0	668.2	-0.74	40.6	441.6	463.0	-0.58
2.000	24 feb 28	1.84B	6.371	599.3	644.9	-0.68	34.0	421.3	439.8	-0.53
2.000	24 feb 29	1.48B	6.296	584.2	621.4	-0.60	33.8	403.9	417.8	-0.44
2.000	24 feb 31	1.29B	6.087	550.5	583.5	-0.62	24.9	371.7	382.6	-0.42
2.000	24 feb 36	1.33B	5.743	492.7	508.3	-0.38	23.2	320.6	322.0	-0.07
3.000	24 feb 42	1.05B	6.581	564.4	583.5	-0.47	16.9	369.9	369.5	0.02

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

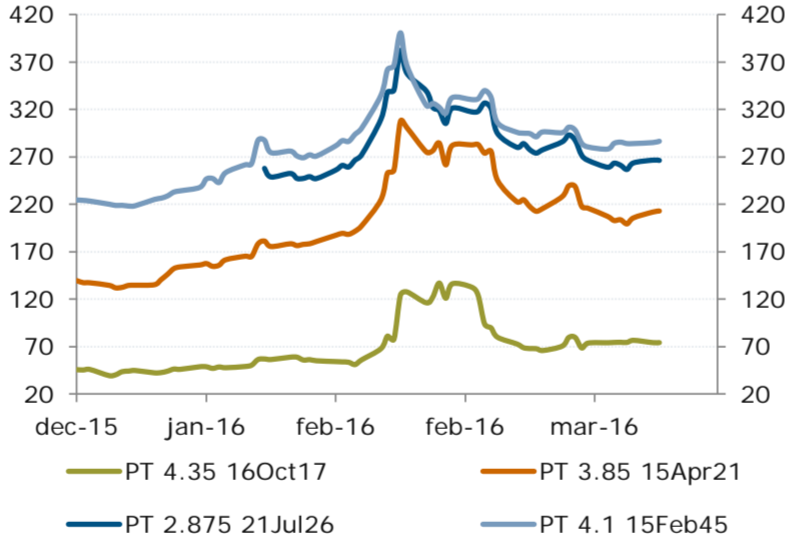
Source: European Commission, Winter 2015 forecast

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

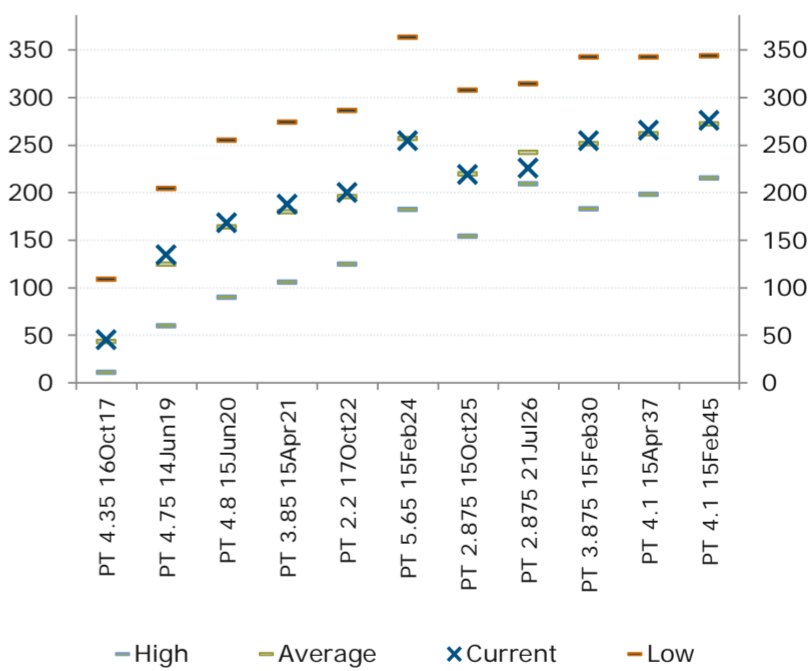
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
4.350	16 okt 17	8.41B	0.264	73.9	71.0	0.14	-19.8	44.8	43.2	0.08
4.750	14 jun 19	10.99B	1.152	160.4	149.4	0.30	7.8	134.5	124.5	0.27
4.800	15 jun 20	10.99B	1.524	190.0	185.9	0.10	0.0	168.3	164.0	0.11
3.850	15 apr 21	10.01B	1.827	212.6	206.1	0.17	-0.2	187.8	180.0	0.21
2.200	17 okt 22	3.0B	2.236	242.3	238.9	0.10	2.0	199.9	195.6	0.14
5.650	15 feb 24	12.02B	2.600	264.6	267.5	-0.07	1.3	254.5	257.1	-0.07
2.875	15 okt 25	10.52B	2.740	256.6	258.3	-0.05	0.8	218.7	219.2	-0.02
2.875	21 jul 26	4.19B	2.912	266.0	286.3	-0.71	-0.3	225.9	242.1	-0.71
3.875	15 feb 30	4.05B	3.362	283.8	279.3	0.13	-1.5	254.5	251.1	0.12
4.100	15 apr 37	8.02B	3.661	281.3	278.9	0.07	-0.6	265.6	261.9	0.14
4.100	15 feb 45	2..5B	3.814	286.1	286.8	-0.02	0.8	276.0	272.3	0.15

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

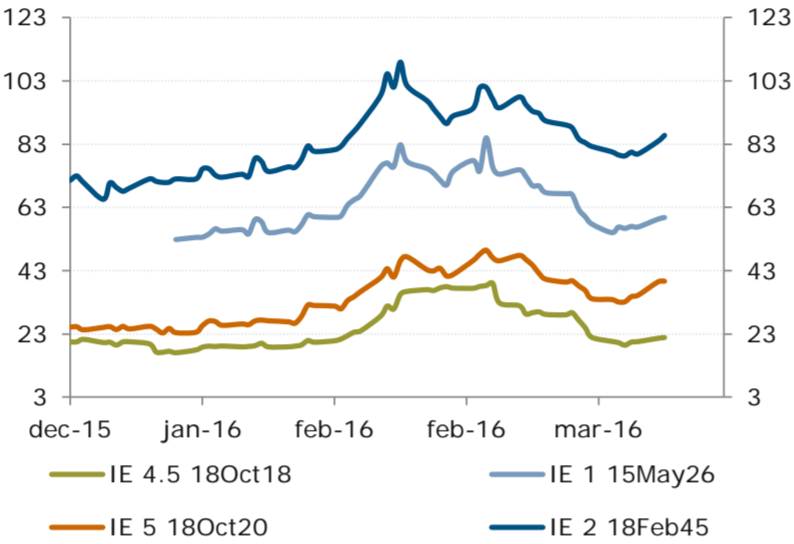
Rating	Baa1/A/A-
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Moody's / S&P / Fitch

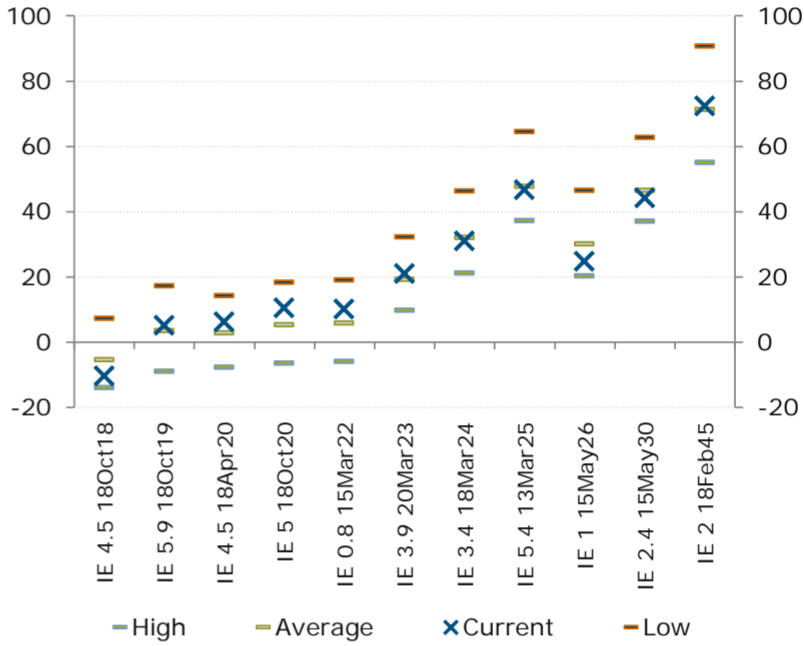
Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
4.500	18 okt 18	9.58B	-0.252	22.1	25.5	-0.52	0.6	-10.4	-5.4	-0.85
5.900	18 okt 19	6.58B	-0.065	36.3	33.9	0.35	1.4	5.1	3.5	0.25
4.500	18 apr 20	11.77B	-0.015	37.6	34.2	0.54	-0.5	6.1	2.9	0.60
5.000	18 okt 20	8.99B	0.056	40.0	35.3	0.64	-0.7	10.4	5.3	0.79
0.800	15 mar 22	4.25B	0.233	47.2	43.1	0.51	-0.1	10.1	5.8	0.66
3.900	20 mar 23	5.95B	0.385	53.5	51.0	0.36	0.7	21.0	19.2	0.31
3.400	18 mar 24	8.01B	0.594	63.0	62.6	0.04	0.2	31.0	32.1	-0.18
5.400	13 mar 25	11.35B	0.765	66.4	65.7	0.09	0.7	46.6	47.7	-0.14
1.000	15 maj 26	4.0B	0.839	60.1	64.9	-0.60	14.3	24.8	30.0	-0.86
2.400	15 maj 30	7.78B	1.258	72.0	70.8	0.14	-0.1	44.2	46.4	-0.31
2.000	18 feb 45	5.95B	1.813	86.0	84.6	0.16	-2.2	72.4	71.2	0.13

Spreads against the German curve, bp



Asset swap term structure, bp



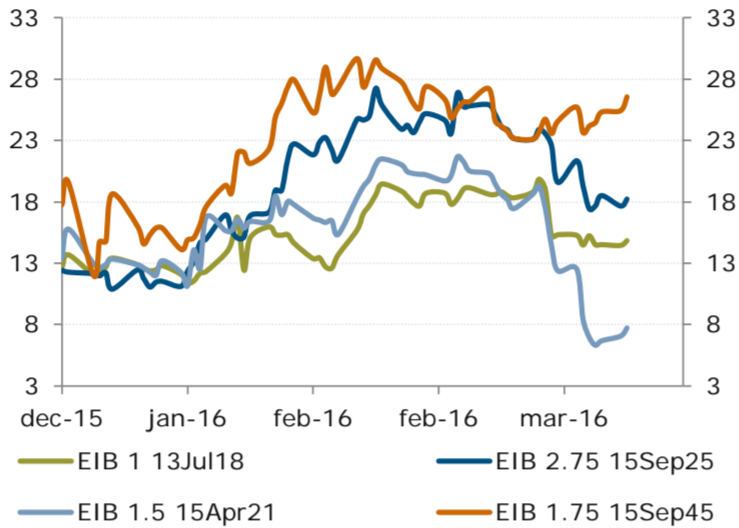


Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

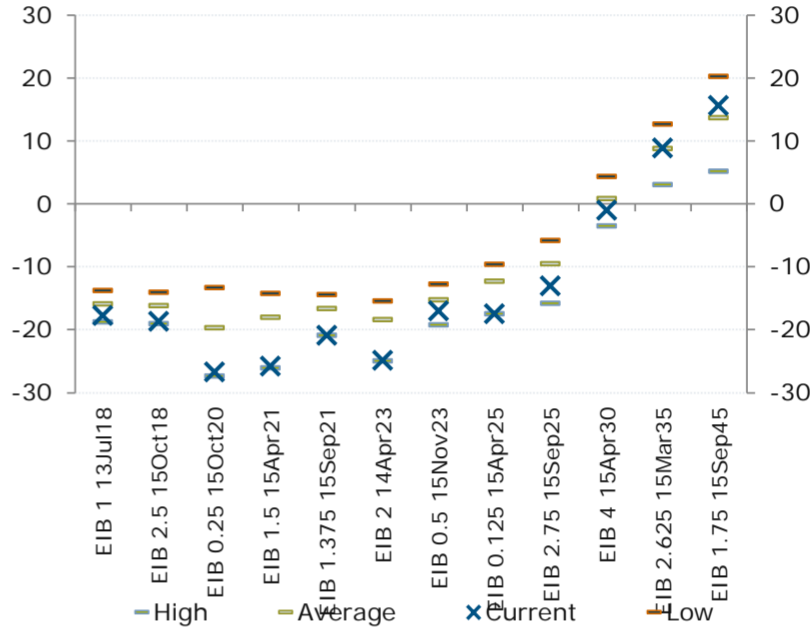
European Investment Bank (EIB)

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
1.000	13 jul 18	5.0B	-0.325	15.2	15.9	-0.30	-0.1	-17.8	-15.9	-1.46
2.500	15 okt 18	5.0B	-0.327	14.6	15.7	-0.50	0.4	-18.7	-16.2	-1.79
0.250	15 okt 20	4.0B	-0.270	7.4	15.1	-1.44	-2.7	-26.8	-19.7	-1.75
1.500	15 apr 21	5.0B	-0.218	8.1	16.3	-2.39	0.4	-25.8	-18.1	-2.96
1.375	15 sep 21	4.35B	-0.131	14.1	18.7	-1.58	0.1	-21.0	-16.7	-2.29
2.000	14 apr 23	5.0B	-0.006	13.6	18.9	-1.48	0.6	-24.9	-18.4	-2.79
0.500	15 nov 23	1.5B	0.153	22.7	24.0	-0.63	3.0	-17.1	-15.3	-1.25
0.125	15 apr 25	3.0B	0.313	20.0	26.0	-2.13	0.3	-17.6	-12.3	-2.81
2.750	15 sep 25	5.75B	0.350	18.6	20.3	-0.37	0.1	-13.1	-9.6	-1.21
4.000	15 apr 30	6.5B	0.760	22.6	19.9	0.74	0.0	-1.0	0.8	-1.05
2.625	15 mar 35	1.7B	1.058	26.9	23.3	1.09	0.0	8.9	8.8	0.04
1.750	15 sep 45	1.3B	1.225	27.0	23.6	0.86	-0.3	15.5	13.6	0.46

Spreads against the German curve, bp



Asset swap term structure, bp

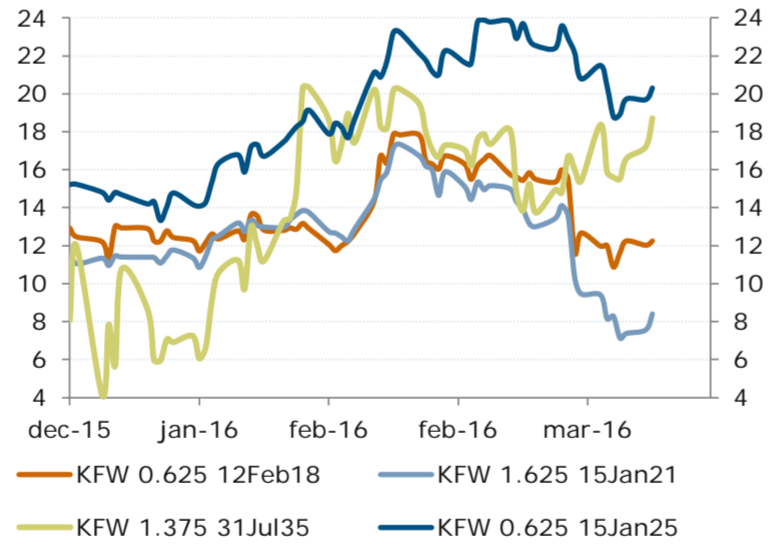


Δ B/E Spd 1Y is calculated as a spread to a synthetically created par bond trading on the German curve.

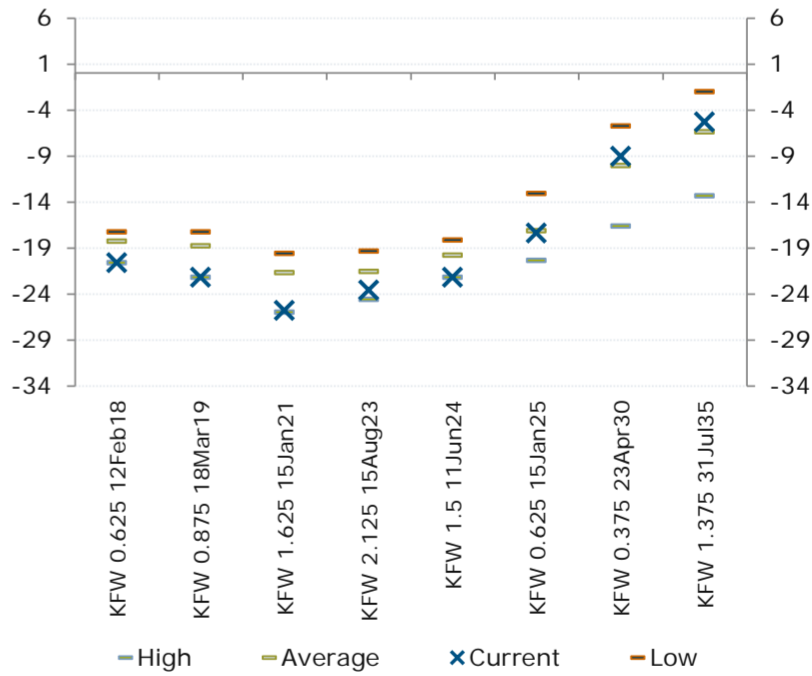
Kreditanstalt für Wiederaufbau (KfW)

Benchmark Bonds				Spread vs. Germany				Asset Swap Spread		
Coupon	Maturity	Volume	Yield	22-mar	60D Avg.	Z-score	Δ B/E Spd 1Y	22-mar	60D Avg.	Z-score
0.625	12 feb 18	2.0B	-0.362	11.8	13.4	-0.87	1.6	-20.7	-18.4	-2.82
0.875	18 mar 19	5.0B	-0.340	12.8	14.8	-1.77	0.3	-22.3	-18.9	-3.55
1.625	15 jan 21	5.0B	-0.241	8.0	12.4	-2.28	0.7	-25.9	-21.8	-2.79
2.125	15 aug 23	3.0B	0.042	14.6	15.5	-0.37	1.0	-23.7	-21.6	-1.68
1.500	11 jun 24	3.0B	0.153	15.6	18.2	-1.14	0.2	-22.3	-19.9	-2.03
0.625	15 jan 25	3.0B	0.279	19.9	18.8	0.37	0.2	-17.5	-17.2	-0.28
0.375	23 apr 30	2.0B	0.809	27.4	22.7	0.88	0.3	-9.1	-10.2	0.34
1.375	31 jul 35	1.0B	0.983	18.3	14.0	1.13	0.4	-5.4	-6.5	0.36

Spreads against the German curve, bp



Asset swap term structure, bp



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