

**Bond Market Contact Group
(European Central Bank)**

Bond market outlook

12 February 2019

Key developments

- **Politics: Europe is still not running short of political risks**, with investors currently being most watchful of the Brexit negotiation endgame, potential lack of Italian fiscal discipline, “gilet jaunes” headwind on French President Macron’s envisaged reform path and US-China trade tensions. Moreover, the European Parliamentary elections will be an existential moment for the continent – a struggle between Eurosceptic populists and more mainstream, establishment candidates.
- **Macro:** World economic growth, while still hovering at around potential, is now clearly beyond its peak. **Downside risks to the economic outlook have increased** in light of the ongoing loss of cyclical momentum, a multitude of unresolved (geo-)political tensions and rising medium-term recession probabilities. Positive output gaps and tighter labour markets are expected to result in a gradual rise in core inflation over time, but headline inflation will be depressed significantly over the next couple of months due to the collapse in oil prices. Ongoing de-globalisation would c.p. clearly be inflationary.
- **Monetary policy: Global central bank liquidity has peaked in 2018, which is deemed to be a structural headwind for financial markets.** The Federal Reserve is close to the end of its rate-hiking cycle in 2019. While acknowledging the more prominent downside risks to the Eurozone economy, the ECB has not yet capitulated on its “slow-motion exit”. With net asset purchases having ended in December, besides the forward guidance on interest rates, the stock of assets and reinvestments are the key policy parameters. (T)LTROs back on the agenda.
- **Fixed Income:** Currently, more than one third of the Eurozone government bond universe is carrying a negative nominal yield. Eurozone sovereign bond markets remain prone to volatility, even if the ECB is inclined to follow a smooth path of normalisation. Overall, **forthcoming withdrawal of monetary policy accommodation and negative term premia pose downside risks for government bond markets** in the developed world **over the medium term**.
- **FX:** We expect that a **gradual phasing-out of cyclical and monetary “US exceptionalism”**, structural factors (in particular the US “twin deficit”) and a still supportive valuation backdrop will offer moderate upside for the euro against the dollar. But tensions around Italy need to subside first.

Politics: Europe rumbles on

EU and the Eurozone

EU Parliament election on **26 May**. Growing anti-establishment and centrifugal political forces given concerns related to the refugee crisis, terror, economic disruption (e.g. digitalization), trade tensions.

UK

BREXIT as “leap in the dark”. Tories and Parliament split over Brexit. Sticking point: Irish border. Situation in flux: No deal crash-out? Delay of **29 Mar** Brexit day? 2nd referendum? Snap elections?

Ireland

Minority government. Brexit-related foreign-policy challenges ahead.

Belgium

Controversy over UN migration pact stokes government crisis. Parliam. elections on **26 May**.

France

Public demonstrations (“Gilet Jaunes”) underline challenges to President Macron’s reformist stance.

Portugal

Surprisingly stable left-wing minority government. Parliam. elections in **autumn**.

Spain

Minority government under Sanchez on shaky ground. Local and regional elections on **26 May**. Independence aspirations in Catalonia remain simmering uncertainty factor. Lack of budget discipline.

Netherlands

Highly fragmented parliament.

Italy

Political instability impedes reforms. High stock of NPLs. Populist, euro-sceptic M5S-Lega government. Clash with Brussels over 2019 budget – but deficit procedure averted at present despite fiscal easing.

Sweden

EU-skeptical Sweden Democrats (pro “SWEXIT”) the third strongest party in September parliamentary elections.

Finland

FIXIT movement weakened. Far-right, EU-sceptic True Finns lag far behind in 2018 presid. elections

Germany

Is the grand coalition falling apart? AfD first far-right party in Bundestag in more than half a century. Federal state elections in **autumn**.

Visegrád countries

Nationalist, EU-sceptic governments. Worsening relationship with EU incl. infringement procedures. Will Warsaw and Budapest risk losing its EU voting rights?

Austria

Coalition of ÖVP and right-wing FPÖ against Macron’s EMU reform proposals

Ukraine

Tied up in continued conflict with Russia over Crimea. Presidential election: **31 Mar**.

Greece

Fragile government. Parliamentary elections looming in **autumn**. Successful completion of 3rd rescue package, improved short-term creditworthiness, but still pending reform agenda.

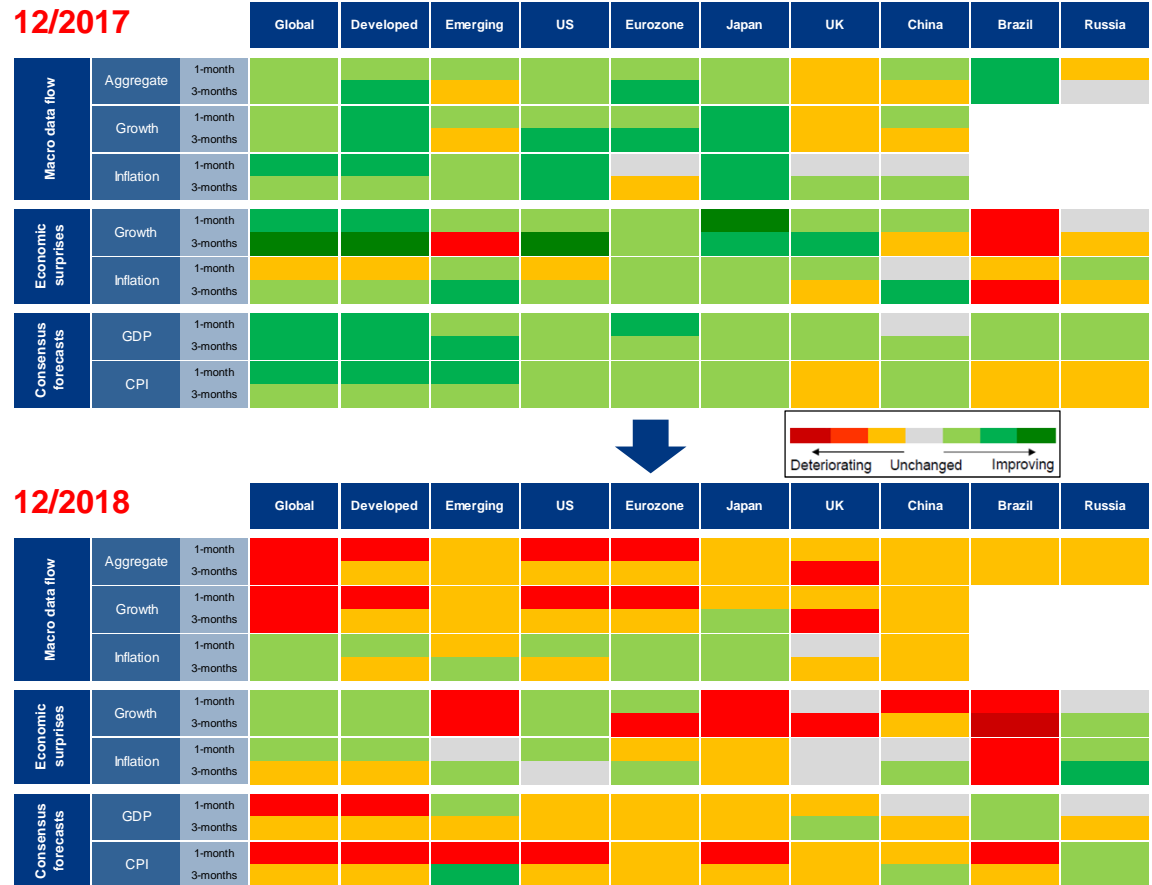
EMU member state

EU, non-EMU member state

EU member state with an opt-out

Macro: Global economy – increasing downside risks as momentum has started to reverse

While the global economic backdrop is still solid, the macro news flow has deteriorated recently



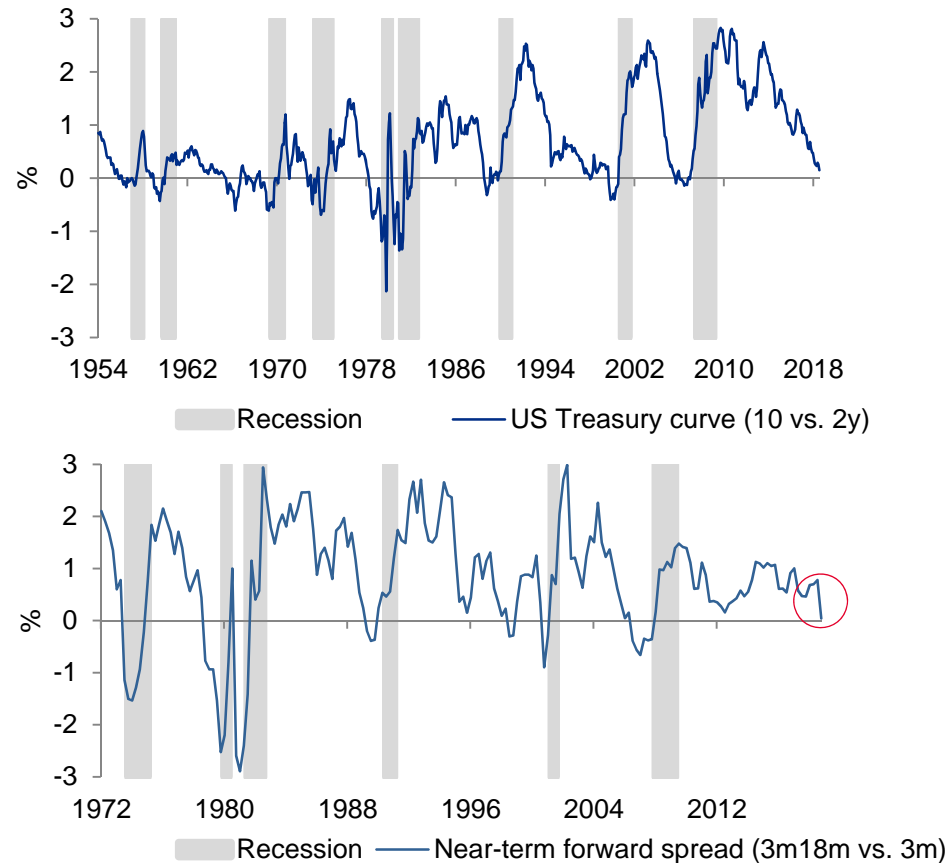
Following surprisingly strong and broad-based global growth in late-2017, the global macro data flow has deteriorated significantly over the course of last year.

Source: Allianz Global Investors, Bloomberg, Datastream, Consensus Economics, as of 31 December 2018. The statements contained herein may include statements of future expectations and other forward-looking statements that involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in such statements. We assume no obligation to update any forward-looking statement.

Macro: Does the flattening of the yield curve foreshadow a US recession?

Yield curve and the business cycle

Inversion, not flattening per se, would be major cause of concern



Yield curve, recessions and equities

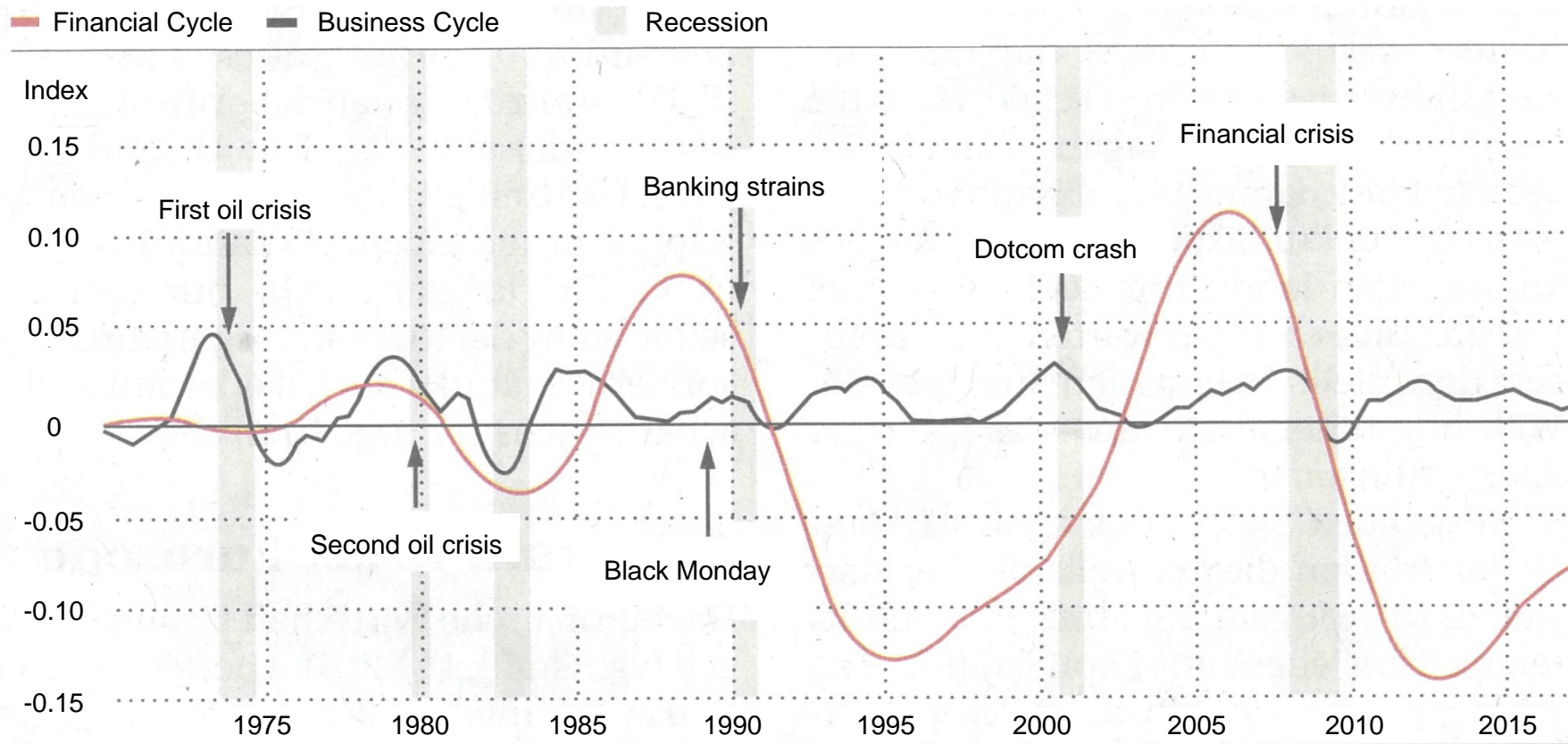
Curve tends to invert prior to recessions and equity market peaks

Recession	# of months from curve inversion to recession	# of months from curve inversion to S&P 500 peak	# of months from S&P 500 peak to recession
1957	16	3	13
1960	10	1	9
1969	28	15	13
1973	8	-2	10
1980	17	18	-1
1981	10	1	9
1990	19	19	0
2001	13	1	12
2007	22	20	2
Average	16	8	7

While an inverted yield curve used to be a harbinger of US recessions, it has been more of a symptom rather than a cause, reflecting overall tighter monetary and financial conditions.

Macro: If there is a landing at all, it will be soft (?)

Financial and Business Cycle USA

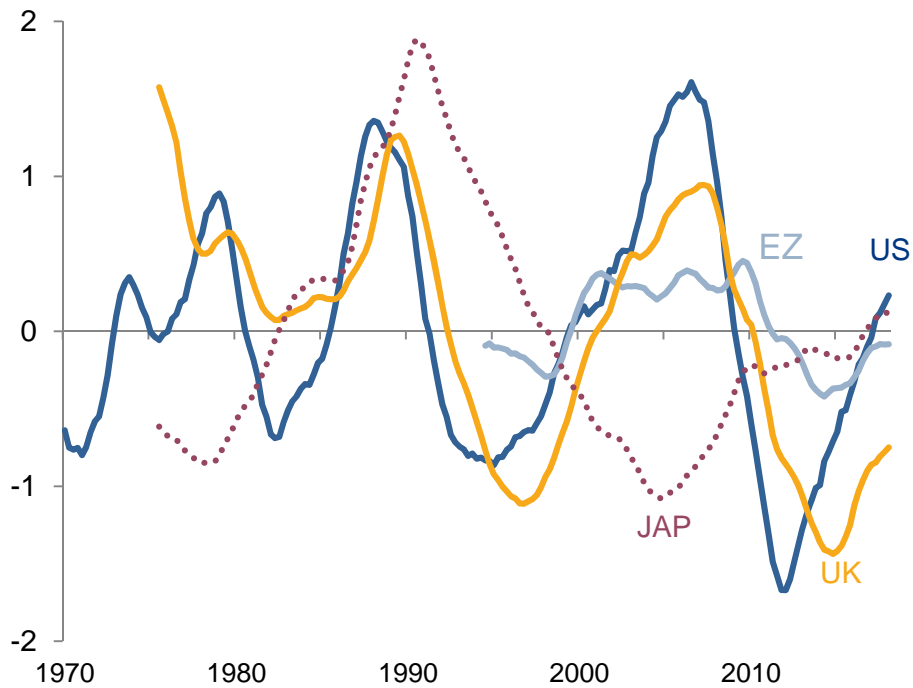


Source: Finanz und Wirtschaft of 19 December 2018, p. 18, Alexander Trentin: „BIZ: Finanzbooms sagen Rezessionen voraus“, Graph: BIZ / FuW, Is (own translation by Allianz Global Investors)

Macro: Expanding financial cycle in the US, EZ, UK and Japan. Mind the peak in the financial cycle in EM

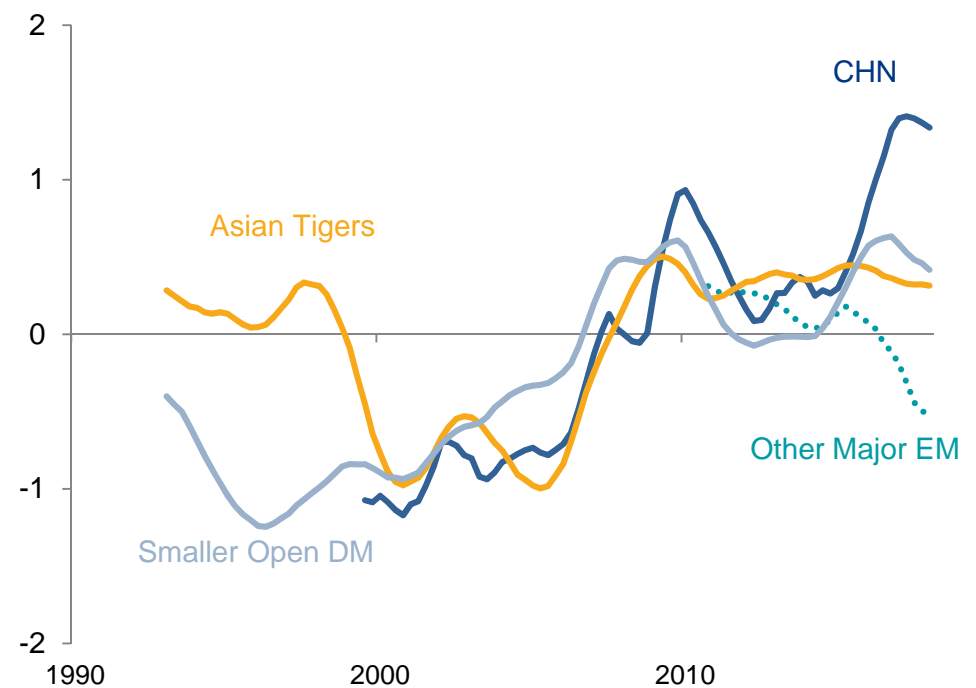
Financial cycle: expanding in major DM

standard deviation



Financial cycle: deteriorating in many EM and some DM

standard deviation

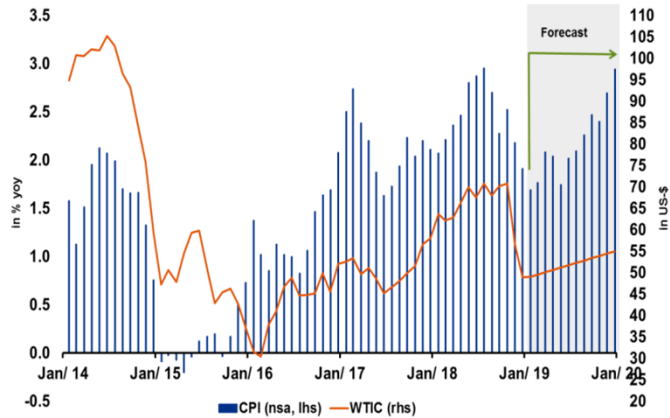


US, EZ, UK and Japan supported by expanding FC. High risk of financial stress in many EM and smaller DM.

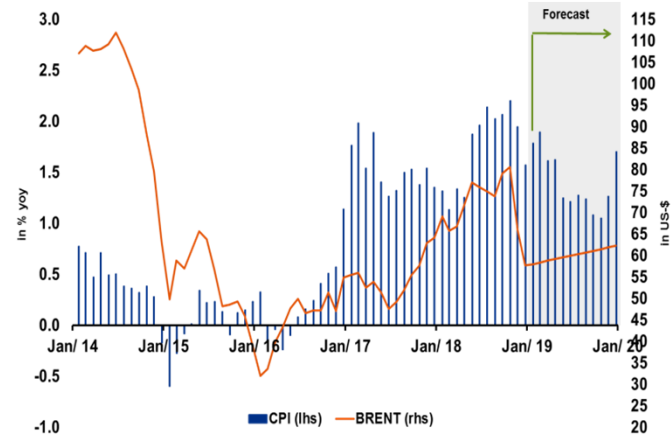
Legend: We calculate the financial cycle (FC) as the average z-score of private non-financial debt to GDP relative to trend (credit gap) and real house prices relative to trend. Financial cycle of country groups are GDP (in USD) weighted averages of country specific FCs; EUR proxied by DEU, FRA, ITA, SPA, NET, POR, IRE; Smaller Open DM = CAN, SWE, CHE, NOR, AUS, NZL; Asian Tigers proxied by HKG, SGP, KOR; Other Major EM = BRA, MEX, RUS, TUR, ISR, ZAF, IND. The charts show 5 quarters centered averages. Source: Allianz Global Investors, BIS, Datastream, as of Q1 2018.

Macro: Temporary slump in headline inflation due to energy price related base effect

US: CPI-Simulation¹



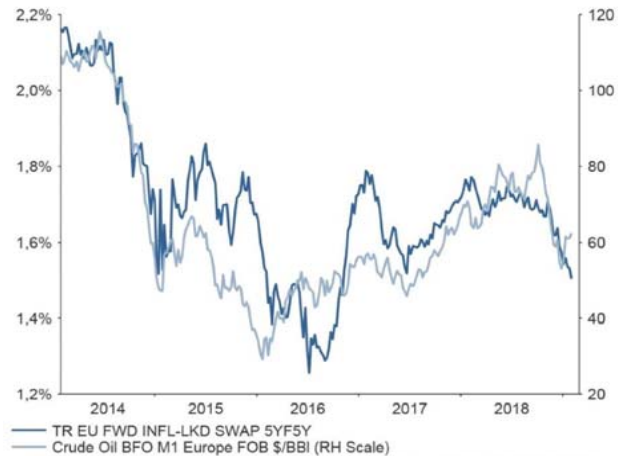
Euro area: HVPI-Simulation¹



Inflation expectations of professional forecasters (SPF²)



Market-based long-term inflation expectations³ contingent on oil price developments



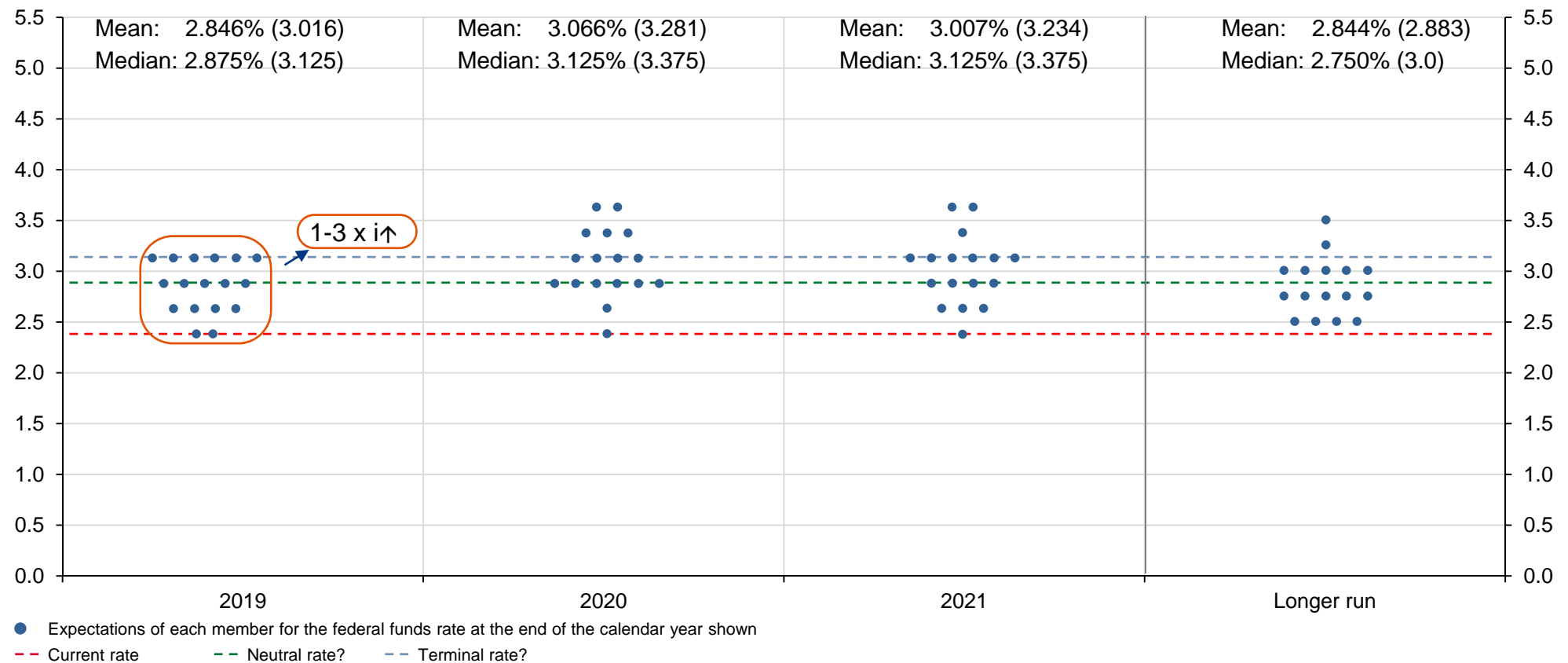
¹Consumer price simulation with current oil price expectations (using futures), as of 4 January 2019; ²Survey of Professional Forecasters, as of 25 January 2019; ³Long-term inflation expectations measured by the break-even values of 5Y5Y-forwards, i. e. expectations of inflation rates for a five-year period beginning five years in the future, as of 31 January 2019. Forecasts are not a reliable indicator of future results. Source: Datastream, Eurostat, EZB, Allianz Global Investors.

Monetary policy: What does patience (FFR) and flexibility (QT) mean for financial markets?

FOMC participants' assessments of appropriate monetary policy („Fed dots“)

Downward revision of Fed dots imminent?

Federal funds rate in %



Source: Board of Governors of the Federal Reserve System (December 2018, September 2018 in brackets), Allianz Global Investors, as of 19 December 2018. Forecasts are not a reliable indicator of future results.

Monetary policy: QE¹ in numbers, the now and the future

Status quo ex post: A large-scale buyer on bond markets (still)

2595 billion

From October 2014 until December 2018 the Eurosystem² purchased assets worth around EUR 2.6 trillion. Purchases of **public-sector assets** accounted for the lion's share of QE (82%).

0 billion

The pace of monthly net purchases was **halved** to EUR 30bn in January 2018.³ From October 2018, the amount was reduced further to EUR 15bn per month. **Net purchases ended in December 2018.**

Gross > net

In parallel, the central banks started in March 2017 to **reinvest** the principal payments from maturing securities purchased under QE.

One fifth

The Eurosystem's holdings of **public sector debt** have increased to more than 20 % of Eurozone gross government debt, in effect making the Eurosystem the **euro area countries' largest single creditor.**

Status quo ex ante: Exit in slow motion

=

The Governing Council aims to **maintain the size of its cumulative net purchases** under each constituent programme of QE at their respective levels. Driven by the asset side, the ECB's balance sheet is set to remain very large for many years to come.

0 billion

The ECB has ended the net acquisition of assets in December 2018.

+ 203 billion

The **reinvestment policy** and considerable **stock of acquired assets** have become more important for the forward guidance and the degree of monetary accommodation. In 2019 alone, reinvestments of around EUR 203bn are expected.

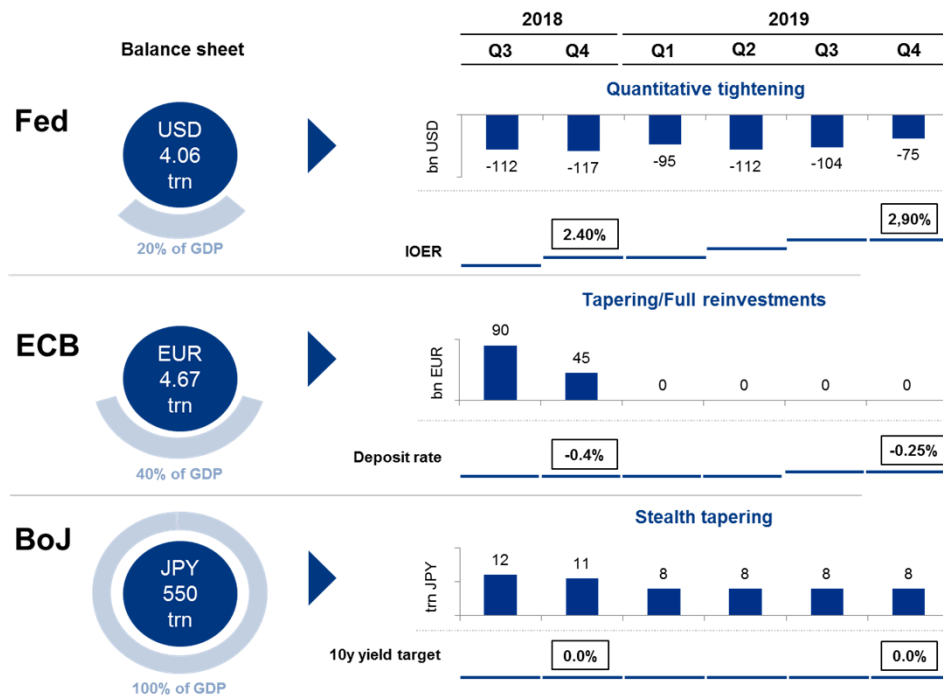
%

The ECB endeavors to use its enhanced forward guidance to reduce interest rate uncertainty while "maintaining adequate flexibility"⁴. A **first rate hike** is not expected before the **end of the summer of 2019.**

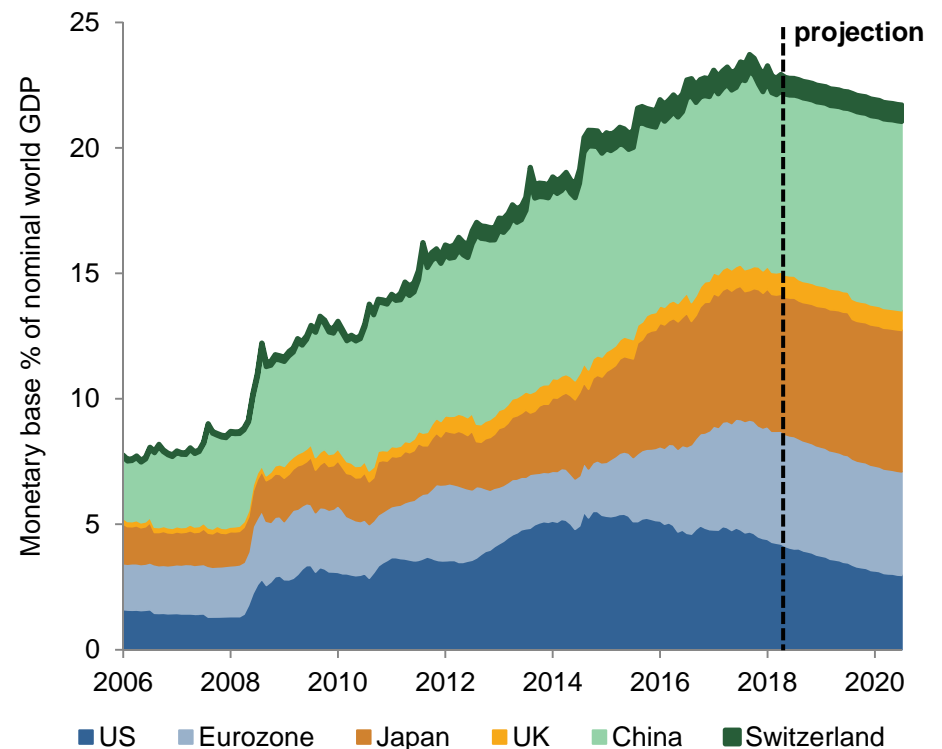
¹Quantitative easing by the European Central Bank (ECB); ²The Eurosystem comprises the ECB and the national central banks of all 19 euro member states; ³From an operational standpoint alone, the 33 % issuer limit (which was a means to mitigate the risk of the ECB becoming a dominant creditor of governments) restrains the scope for a further extension of QE; ⁴Account of the 25-26 July policy meeting. Source: Bloomberg, Eurostat, ECB, Allianz Global Investors, as of 4 February 2019.

Monetary policy: Major central banks heading towards normalization

Unconventional policy normalization have led...



...to a climax in central bank liquidity in 2018

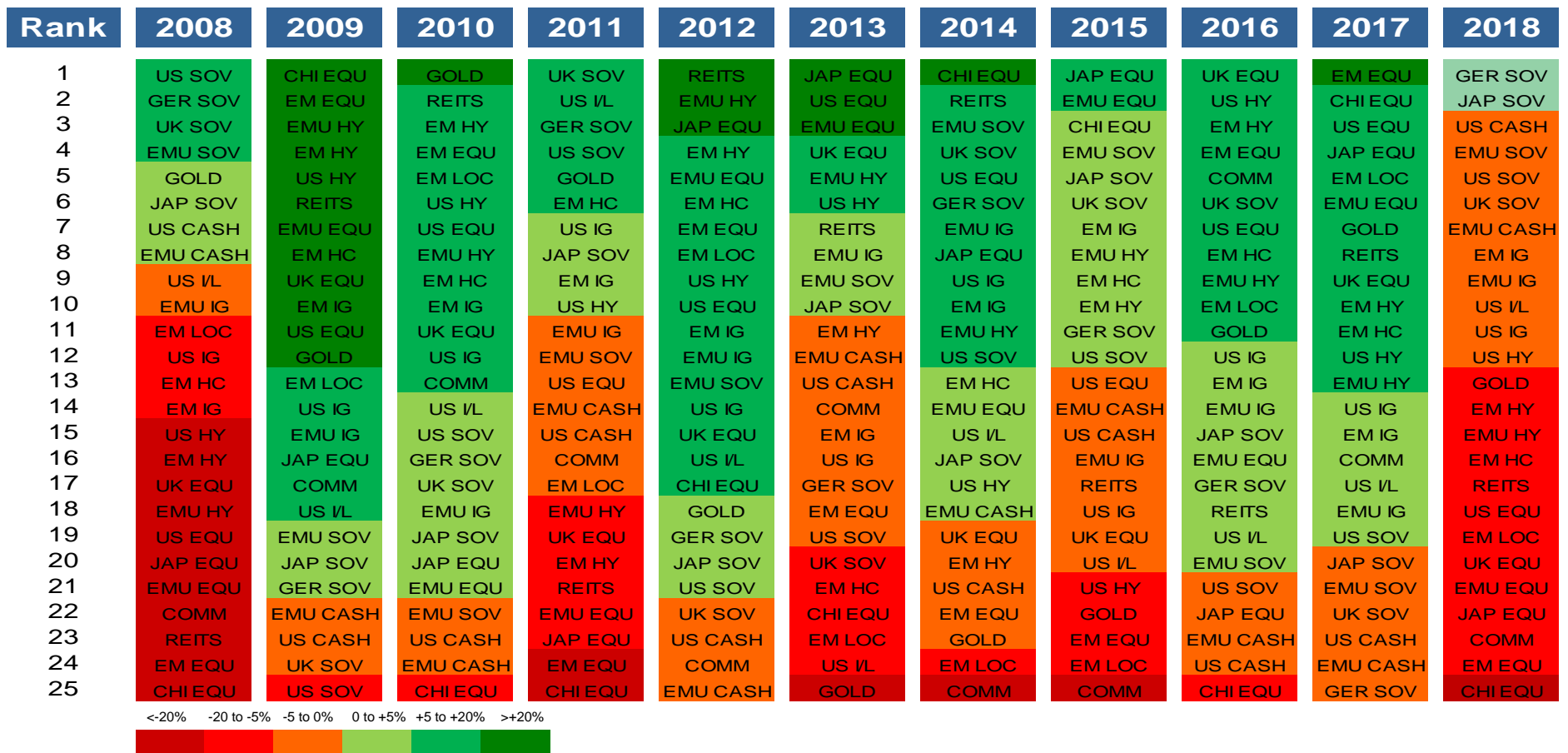


Peak liquidity constituted a major turning point for global monetary policy in 2018.

Source: Allianz Global Investors, Bloomberg, Datastream, as of 30 November 2018. Future expectations involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in such expectations. We assume no obligation to update any future expectations.

What are markets telling us?¹

Real annual return of major asset classes²: Unprecedented breadth of negative returns in 2018



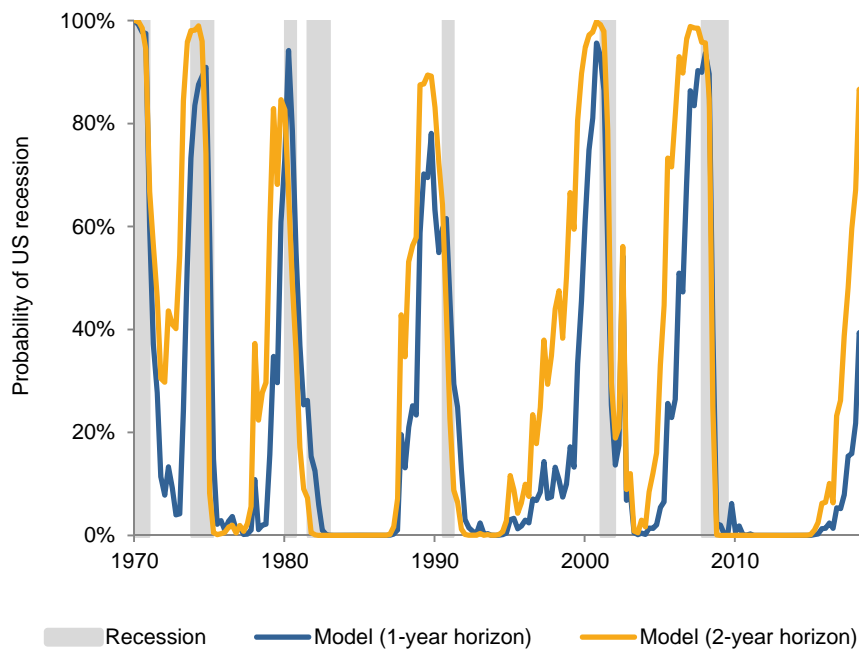
Spreading late-cycle dynamics and (geo-)political headwinds weighed on global financial markets in 2018.

¹ Paul Samuelson, Newsweek, „Science and Stocks“ (September 19, 1966): „Wall Street indexes predicted nine out of the last five recessions!“ ²US: United States, CHI: China, GER: Germany, UK: United Kingdom, EMU: Eurozone, EM: Emerging Markets, JAP: Japan, EQU: equities, SOV: government bonds, I/L: index-linked bonds, IG: investment-grade, HY: high yield, COMM: commodities, HC: hard currency bonds, LOC: local markets. Source: Allianz Global Investors, Bloomberg, Datastream, as of 31 December 2018.

Navigating financial markets in a late-cycle environment

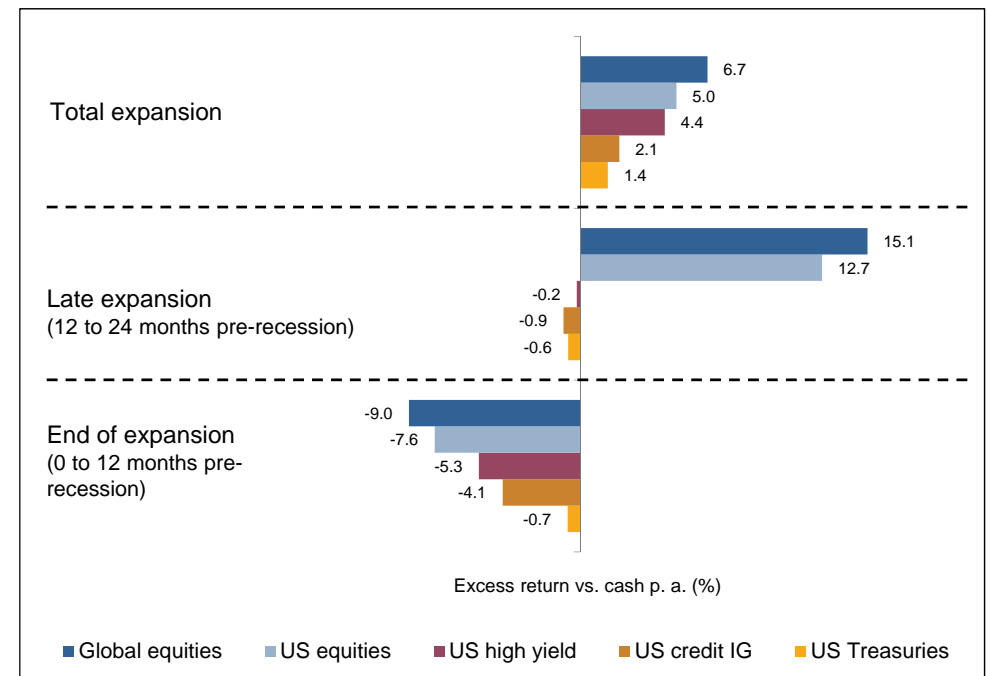
Rising medium-term recession risks in the United States¹

Structural factors (unemployment gap, share of long-term investment to GDP, non-financial corporate profit margin, real money supply, house-price-to rent ratio) point to economic downturn in 2020



Asset returns through economic expansions in the United States²

Negative excess returns in the final year of business cycles, on average



Investors have not been compensated for just taking beta risk toward the end of business cycles. Active management is key in such an environment.

¹Probit model based on unemployment gap (unemployment rate vs. NAIRU), share of long-term investment (durables, structures, residential) to GDP, non-financial corporate profit margin, real money supply (M1), house-price-to rent ratio;²Average return of US asset classes for US expansions since 1975 (high yield since 1982). Source: Allianz Global Investors, Bloomberg, Datastream, NBER, as of 31 December 2018.

Fixed Income: Performance overview segments Euroland

Segment	Performance 2019 in % (2018 / 2017 / 2016 / 2015 / 2014 / 2013)	
Euro Sovereigns	1.08	(1.01 / 0.12 / 3.31 / 1.64 / 13.69 / 2.27)
Euro Corporates All (IG)	1.05	(-1.13 / 2.41 / 4.75 / -0.43 / 8.38 / 2.35)
Euro Collateralized/Securitized	0.37	(0.32 / 0.66 / 2.13 / 0.48 / 7.88 / 3.66)
Euro Quasi-Government	0.68	(0.49 / 0.50 / 2.61 / 0.72 / 8.81 / 1.09)
Euro High Yield	2.24	(-3.61 / 6.74 / 9.06 / 0.76 / 5.55 / 10.05)
(Emerging Markets (EMBI+; USD)	5.08	(-5.33 / 8.29 / 9.62 / 1.82 / 6.05 / -8.31)

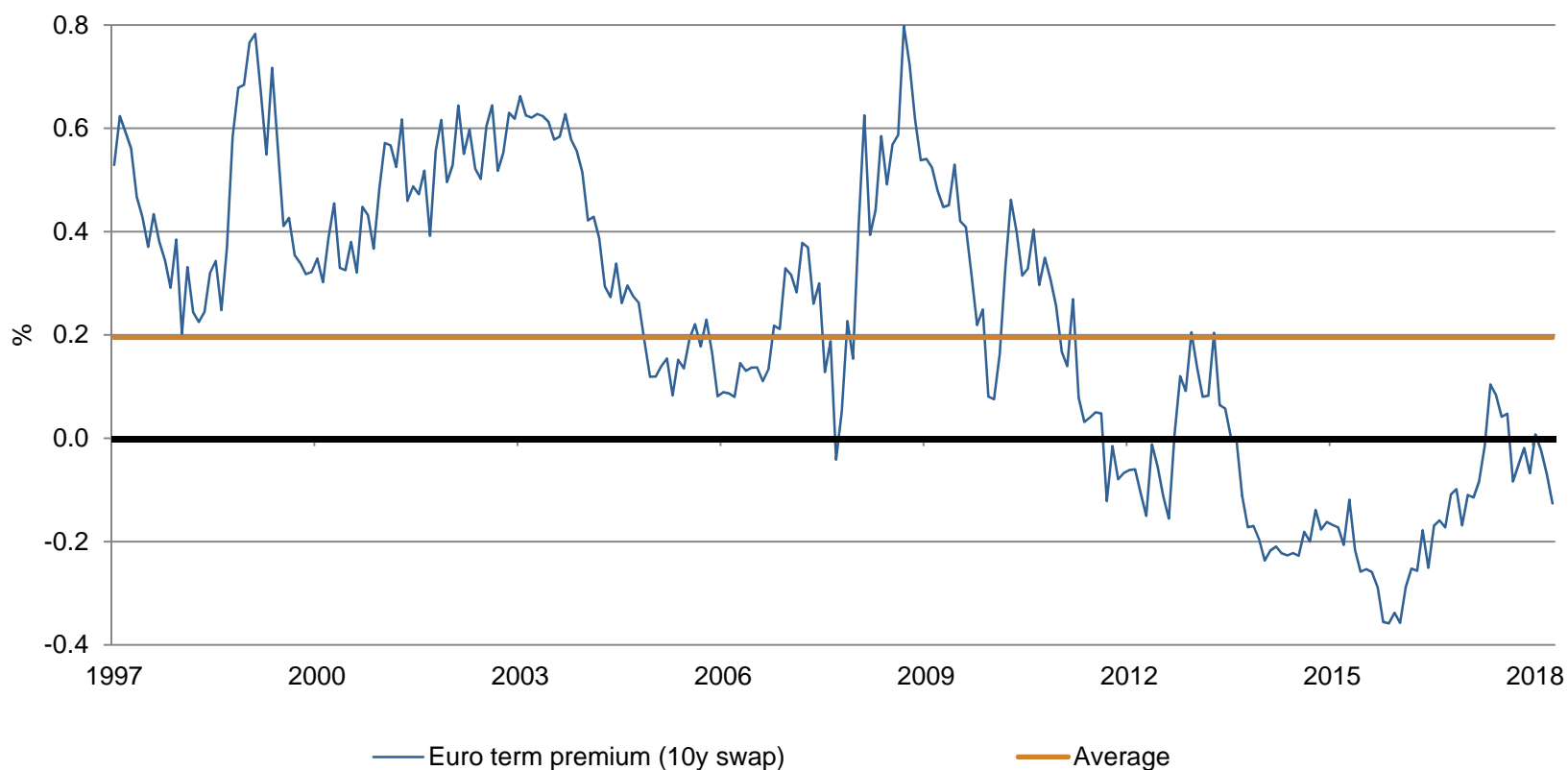
Fixed Income: Performance overview government bonds Euroland

Performance 2019 in % (2018/2017/2016/2015)						
	Total	1 - 3 years	3 - 5 years	5 - 7 years	7 - 10 years	10+ years
Euroland	1.08 (1.01/0.12/3.31/1.64)	0.06 (-0.07/-0.34/0.37/0.70)	0.41 (0.14/0.01/1.51/1.43)	0.90 (0.14/0.49/2.32/1.90)	1.32 (1.41/1.15/3.82/1.87)	2.14 (2.46/-0.40/6.94/2.27)
Germany	0.77 (2.42/-1.45/4.06/0.33)	-0.16 (-0.36/-0.91/0.25/0.27)	0.05 (0.65/-1.05/1.66/0.61)	0.42 (1.52/-1.16/2.63/0.60)	0.98 (2.74/-0.81/4.35/0.74)	2.12 (6.49/-2.61/9.64/-0.10)
France	0.97 (1.25/0.41/3.74/0.45)	-0.10 (-0.25/-0.74/0.40/0.35)	0.21 (0.40/-0.40/1.54/0.83)	0.81 (0.65/0.25/2.26/1.02)	1.27 (1.17/1.43/3.99/0.70)	1.90 (2.90/0.87/8.45/-0.01)
Italy	1.19 (-1.40/0.79/0.86/4.82)	0.51 (0.17/0.41/0.37/1.42)	1.13 (-0.90/1.23/0.95/2.84)	1.51 (-1.76/1.94/1.28/3.79)	1.53 (-2.03/1.87/1.07/4.56)	1.49 (-2.19/-0.47/0.62/8.77)
Spain	1.49 (2.64/0.98/4.41/1.70)	-0.06 (0.14/0.10/0.72/1.07)	0.35 (1.09/0.84/2.12/2.04)	0.96 (1.67/2.10/3.57/2.22)	1.70 (2.85/2.33/5.33/1.44)	3.25 (5.66/-0.11/8.81/2.37)
Netherlands	0.78 (2.44/-1.05/4.35/0.29)	-0.14 (-0.33/-0.74/0.24/0.41)	0.03 (0.62/-0.71/1.48/0.81)	0.48 (1.45/-0.72/2.70/1.19)	1.00 (2.38/0.13/3.99/1.16)	1.85 (5.92/-2.11/10.55/-0.58)
Belgium	1.51 (-0.19/0.16/4.96/0.29)	-0.07 (-0.18/-0.73/0.09/0.44)	0.17 (0.28/-0.70/1.39/1.03)	0.69 (0.40/-0.23/2.93/1.01)	1.38 (0.13/0.92/4.65/1.08)	2.85 (-1.04/0.29/9.66/0.06)
Austria	0.87 (1.72/-0.57/4.34/-0.18)	-0.17 (-0.16/-0.72/0.23/0.34)	0.03 (0.62/-0.55/0.94/0.78)	0.46 (1.27/-0.55/2.55/0.94)	0.84 (1.62/-0.12/5.32/0.39)	2.32 (0.93/-0.36/2.12/0.68)
Finland	0.67 (1.42/-0.78/3.89/0.12)	-0.15 (-0.21/-0.68/0.05/0.45)	0.10 (0.80/-0.75/1.62/0.81)	0.48 (1.32/-0.68/3.03/1.21)	1.08 (1.94/-0.46/5.60/0.57)	1.99
Ireland	1.06 (0.61/0.62/3.54/1.69)	-0.09 (-0.49/-0.53/0.68/0.66)	0.18 (0.47/-0.42/1.92/1.85)	0.64 (0.77/0.54/3.41/2.16)	1.48 (1.10/1.52/4.66/2.59)	2.35 (1.43/1.57/9.44/-3.78)
Portugal	1.44 (3.05/13.82/-2.68/3.86)	-0.07 (0.61/1.43/0.92/2.55)	0.56 (1.60/7.08/0.08/4.27)	1.27 (2.98/14.66/-1.50/5.26)	1.91 (4.21/20.01/-4.21/4.95)	3.50 (6.19/27.33/-8.84/7.46)

Source: Allianz Global Investors, as of 31 January 2019.
Past performance is not a reliable indicator of future results.

Are markets pricing in too much of the „three Ps“¹ of policy normalization?

Negative term premia as additional valuation headwind for Euro sovereign bond markets



¹Patience, prudence and persistence. Past performance is not a reliable indicator of future results. Source: Datastream, ECB, Allianz Global Investors, as of 1 December 2018.

Discussion: A few issues for discussion

Bond Market Outlook Ingo Mainert – 12 February 2019

- Exhausted monetary policy toolkit versus rising medium term recession risks?
- How will capital markets respond to the peak in central bank liquidity?
- Will the Fed's newly found patience and flexibility come at a price?
- How will the rise in global leverage affect the economy and financial markets going forward?
- Which long-term implications will global protectionism and the trade war between China and US have?
- More years of financial repression will come – what does that mean for the financial system?

Disclaimer

Investing involves risk. The value of an investment and the income from it may fall as well as rise and investors might not get back the full amount invested.

The views and opinions expressed herein, which are subject to change without notice, are those of the issuer companies at the time of publication. The data used is derived from various sources, and assumed to be correct and reliable, but it has not been independently verified; its accuracy or completeness is not guaranteed and no liability is assumed for any direct or consequential losses arising from its use, unless caused by gross negligence or wilful misconduct. The conditions of any underlying offer or contract that may have been, or will be, made or concluded, shall prevail.

This is a marketing communication issued by Allianz Global Investors GmbH, www.allianzgi.com, an investment company with limited liability, incorporated in Germany, with its registered office at Bockenheimer Landstrasse 42-44, 60323 Frankfurt/M, registered with the local court Frankfurt/M under HRB 9340, authorised by Bundesanstalt für Finanzdienstleistungsaufsicht (www.bafin.de). The duplication, publication, or transmission of the contents, irrespective of the form, is not permitted.