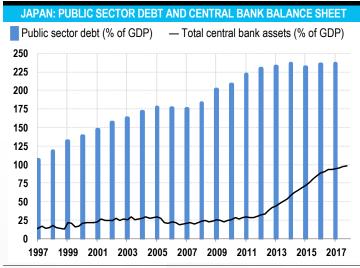
# **ECOWEEK**

No. 18-42, 16 November 2018

# Central banks: An effective upper bound to QE?

■ The balance sheet of the Bank of Japan is now equivalent to the country's GDP, yet inflation remains stubbornly low compared to the official target ■ Years of quantitative easing have caused distortions in equity markets and weighed on liquidity in the market for JGBs ■ There is concern that the marginal effect of BoJ purchases will wane, leading to an effective upper bound to QE. If this were to be the case, the relevance would go well beyond Japan and cause doubts about the effectiveness of more QE in case of a new downturn

Policy leeway is like an airbag in your car: the knowledge that it will be used in case of a shock provides comfort even when everything is still looking fine. In many if not most advanced economies, high public sector debt levels have reduced fiscal policy leeway very significantly. In the years after the 2008 recession, the zero lower bound of official interest rates has been reached. Moreover, the combination of a drop in the neutral rate of interest, a slow recovery and ongoing subdued inflation despite a big decline in the unemployment rate means that monetary policy normalisation has been slow (US, UK) or hasn't even started (eurozone, Japan). As a consequence, the cyclical peak in official rates should be well below previous peaks implying more limited leeway in terms of conventional monetary policy. Clearly, forward guidance and QE will be called upon when the next recession hits. With respect to QE, the size of the central bank balance sheet at the cyclical peak will determine the leeway for unconventional monetary policy during the downturn: one can suppose that eventually there would be an effective upper bound to QE. 'Effective' in the sense that beyond this point the effects of additional purchases become negligeable and/or because of increasingly larger unintended consequences. These issues have received some attention



Source: Thomson Reuters, BoJ, BNP Paribas.

in Japan, where the central bank balance sheet is now a big as the country's GDP. Concerning the unintended side-effects, research shows that bond market liquidity has declined whereas the BoJ's purchases of equity ETFs invested in the Nikkei index (where companies have weights corresponding to their individual share price) has caused valuation distortions compared to the Topix index, which is market capitalisation weighted. To the extent that portfolio rebalancing is an important transmission channel of QE, the bigger the balance sheet, the more downside pressure on risk premia, the higher the valuation of asset prices and the bigger the concern about a possible hit to asset prices when the central bank decides to shrink the balance sheet. These factors may end up weighing on the macroeconomic effectiveness of ongoing asset purchases. If this were to be the case the importance of this outcome would go well beyond Japan and cause doubts about the effectiveness of more QE in case of a new downturn.

William De Vijlder

p. 2

**Markets Overview** 

p. 3

**Pulse** 

p. 4

**Economic scenario** 



**ECONOMIC RESEARCH DEPARTMENT** 



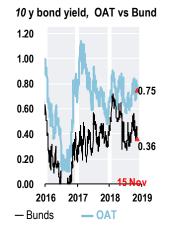
The bank for a changing world



# **Markets overview**

## The essentials

Week 9-11 18 > 15-11-18 -1.4 % **凶** CAC 40 5 107 **> 5 034** № S&P 500 2 781 > 2 730 -1.8 → Volatility (VIX) 17.4 ▶ 20.0 +2.6 pb **↗** Euribor 3M (%) **-0.32** ▶ -0.32 **+0.0** bp 2.62 **↗** Libor \$ 3M (%) 2.63 +1.1 bp -4.2 bp **△** OAT 10y (%) 0.79 0.75 **■** Bund 10y (%) 0.41 0.36 -5.0 bp ¥ US Tr. 10y (%) 3.19 ▶ 3.12 -7.8 bp Euro vs dollar 1.14 ▶ 1.13 -0.3 % **对** Gold (ounce, \$) 1 211 > 1 213 +0.2 % oil (Brent, \$) 70.1 ▶ 67.2 -4.1





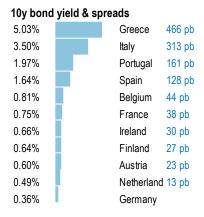


# Money & Bond Markets

Interest Rate	nterest Rates			lowest' 18		
€ ECB	0.00	0.00	at 01/01	0.00	at 01/01	
Eonia	-0.37	-0.34	at 31/10	-0.37	at 18/05	
Euribor 3M	-0.32	-0.32	at 08/11	-0.33	at 01/01	
Euribor 12N	<i>I</i> -0.15	-0.15	at 24/10	-0.19	at 19/02	
\$ FED	2.25	2.25	at 27/09	1.50	at 01/01	
Libor 3M	2.63	2.63	at 14/11	1.69	at 01/01	
Libor 12M	3.13	3.14	at 09/11	2.11	at 01/01	
£ BoE	0.75	0.75	at 02/08	0.50	at 01/01	
Libor 3M	0.89	0.89	at 14/11	0.52	at 04/01	
Libor 12M	1.17	1.17	at 14/11	0.76	at 03/01	

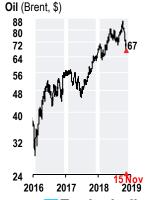
At 15-11-18

#### highest' 18 Yield (%) lowest' 18 € AVG 5-7y 0.86 1.06 at 19/10 0.41 at 18/04 Bund 2y -0.50 at 25/09 -0.79 at 29/05 -0.63 0.72 at 15/02 0.27 at 19/07 Bund 10y 0.36 OAT 10y 0.75 0.91 at 08/02 0.57 at 13/07 Corp. BBB 1.89 1.89 at 15/11 1.17 at 08/01 \$ Treas. 2y 2.86 2.97 at 08/11 1.89 at 01/01 at 08/11 2.41 Treas. 10y 3.12 3.23 Corp. BBB 4.74 at 15/11 3.59 at 01/01 £ Treas. 2v 0.91 at 05/10 0.40 at 01/01 Treas. 10y **1.38** 1.73 at 10/10 1.23 at 01/01 At 15-11-18

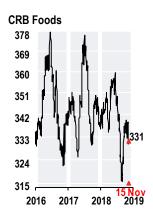


#### Commodities

Spot price in o	low	2018(€)				
Oil, Brent	67.2	62.2	at	13/02	+7.0%	
Gold (ounce)	1 213	1 179	at	17/08	-1.2%	
Metals, LMEX	2 877	2 820	at	15/08	-10.7%	
Copper (ton)	6 198	5 759	at	15/08	-8.8%	
CRB Foods	331	316	at	30/08	+4.6%	
w heat (ton)	194	155	at	16/01	+29.9%	
Corn (ton)	133	115	at	18/09	+10.7%	
At 15-11-18 Variations						







# Exchange Rates

1€ =		high	est' 18	lowest' 18			2018
USD	1.13	1.25	at 25/01	1.13	at	12/11	-5.7%
GBP	0.89	0.91	at 28/08	0.86	at	17/04	-0.3%
CHF	1.14	1.20	at 19/04	1.12	at	07/09	-2.7%
JPY	128.18	137.29	at 02/02	124.96	at	15/08	-5.2%
AUD	1.56	1.63	at 11/09	1.53	at	09/01	+1.6%
CNY	7.85	8.10	at 25/09	7.42	at	29/05	+0.4%
BRL	4.28	4.88	at 14/09	3.87	at	08/01	+7.5%
RUB	75.09	81.62	at 10/09	68.06	at	09/01	+8.6%
INR	81.47	85.66	at 11/10	75.92	at	08/01	+6.3%
At 15-	11-18					Var	iations

# Equity indices

	Index	high	est	<b>'</b> 18	low	est'	18	2018	2018(€)
CAC 40	5 034	5 640	at	22/05	4 953	at	24/10	-5.3%	-5.3%
S&P500	2 730	2 931	at	20/09	2 581	at	08/02	+2.1%	+8.3%
DAX	11 354	13 560	at	23/01	11 192	at	24/10	-12.1%	-12.1%
Nikkei	21 804	24 271	at	02/10	20 618	at	23/03	-4.2%	+1.1%
China*	73	101	at	26/01	68	at	30/10	-16.7%	-11.9%
India*	531	642	at	29/01	487	at	26/10	-2.1%	-7.9%
Brazil*	1 967	2 393	at	26/01	1 561	at	11/09	+10.9%	+3.1%
Russia*	601	707	at	26/02	551	at	23/08	+12.6%	+5.6%
At 15-11-18 Variations									

\* MSCI index

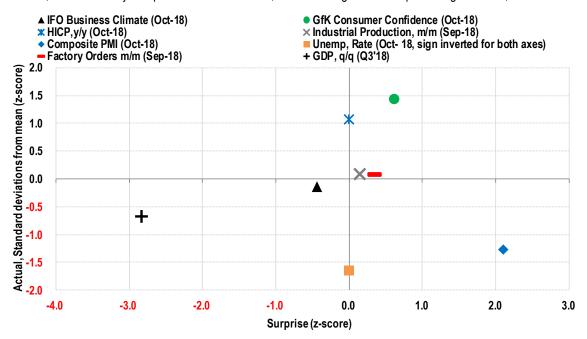




# **Pulse**

## Germany: Activity slowed faster than anticipated

This week's GDP release for Q3 at -0.2% q/q was much weaker than generally predicted. The year-on-year growth rate declined to 1.1%. A specific reason was the temporary problem in the German car industry in adapting to the stricter European rules concerning CO2 emissions. A more structural problem for the manufacturing sector is weakening global demand, particular from China related to domestic problems and to the trade conflict with the US. It is also affecting the IFO business climate index that declined in October more than expected. Nevertheless, it is holding up quite well thanks to the good performance of construction and services. The composite PMI for manufacturing and services actually surprised on the upside in October, as it declined less than expected (to 53.4 against 52.7 expected by the Bloomberg panel). Largely supported by domestic demand, German activity is expected to rebound in Q4, before slowing down to its potential growth rate, estimated at 1.5%.



Source: Bloomberg, Markit, BNP Paribas

## Indicators preview

In the US we will see the publication of several data concerning the housing market (housing starts, building permits, new house sales). Also worth noting are University of Michigan sentiment and durable goods orders. In France we will have the unemployment rate and business confidence, in Germany the details for 3rd quarter GDP and for the eurozone the important consumer confidence data for November. Finally we will also have the November PMI data for several countries.

Date	Country	Event	Period	Survey	Prior
11/19/18	United Kingdom	CBI Trends Total Orders	Nov		-6
11/20/18	France	ILO Unemployment Rate	3Q		9.1%
11/20/18	United States	Housing Starts MoM	Oct	1.4%	-5.3%
11/20/18	United States	Building Permits MoM	Oct	0.0%	-0.6%
11/21/18	Eurozone	OECD Economic Forecasts			
11/21/18	United States	Durable Goods Orders	Oct		0.7%
11/21/18	United States	Existing Home Sales MoM	Oct	1.0%	-3.4%
11/21/18	United States	University of Michigan Sentiment	Nov		
11/22/18	France	Business Confidence	Nov		104
11/22/18	Eurozone	Consumer Confidence	Nov		-2.7
11/23/18	Germany	GDP SA QoQ	3Q		
11/23/18	France	Markit France Composite PMI	Nov		54.1
11/23/18	Germany	Markit/BME Germany Composite PMI	Nov		53.4
11/23/18	Eurozone	Markit Eurozone Composite PMI	Nov		53.1
11/23/18	United States	Markit US Composite PMI	Nov		54.9

Source: Bloomberg, BNP Paribas





# **Economic scenario**

#### UNITED STATES

Economy is expected to expand at approximately 2.8% this year on the back of tax cuts, booming profits and credit. However, the slowdown of international trade implies the risk is on the downside.

Fcoweek 18-42 // 16 November 2018

- Inflation is accelerating in the wake of higher oil prices and a tight labour market.
- The Fed will keep on tightening its policy. We forecast the Fed funds target rate to reach 2.75% in Q1 2019.

#### **CHINA**

- Economic growth will decelerate in 2018-2019. The export outlook is significantly darkened by US protectionist measures. Private domestic demand should be affected by the worsening performance of the export manufacturing sector and the continued moderation in the property market.
- In order to contain the slowdown, the central bank has started to ease liquidity and credit conditions. At the same time, the reduction in financial instability risks should remain a top policy priority. Fiscal policy will also be expansionary and infrastructure spending is projected to rise.

#### **EUROZONE**

- The recovery is continuing, although it has been weaker than expected at the start of the year. Intra-EU trade grows with domestic demand, especially corporate investment.
- Inflation has rebounded in the wake of higher oil prices, but the core CPI trend remains subdued. This argues for the ECB to maintain the status quo on the refinancing rate for a long period of time.

#### **FRANCE**

Growth slows down but remains above potential. Households' consumption should get a boost from the planned tax cuts and the jobs recovery but inflation reduces purchasing power gains. Business investment dynamics remain favourable. The global backdrop is less supportive. A slight rise in core inflation is appearing but remains to be confirmed.

#### **INTEREST RATES AND FX RATES**

- In the US, ongoing strong growth and a very low unemployment rate pave the way for more rate hikes. We expect 1 more this year and 1 in the first half of 2019 after which the Fed will want to see how the economy reacts. As a consequence, US treasury yields should increase, although to a limited degree: the market expects that the tightening cycle is already well advanced. The ECB has announced it intends to stop its net asset purchases at the end of 2018. A first hike of the deposit rate is expected after the summer of 2019. As a consequence, bond yields should increase. No change expected in Japan.
- The narrowing bond yield differential between the US and the eurozone should cause a strengthening of the euro, all the more so considering it is still below its long-term fair value (around 1.34).

#### SUMMARY

	G	DP Growt	h		Inflation				
%	2017	2018 e	2019 e	2017	2018 e	2019 e			
Advanced	2.2	2.2	1.5	1.8	2.1	1.9			
United-States	2.2	2.8	1.8	2.1	2.5	2.1			
Japan	1.7	0.9	0.6	0.5	1.0	1.0			
United-Kingdom	1.7	1.3	1.6	2.7	2.4	2.1			
Euro Area	2.5	2.0	1.5	1.5	1.9	1.9			
Germany	2.5	1.9	1.6	1.7	1.9	2.1			
France	2.3	1.7	1.6	1.2	2.1	1.6			
Italy	1.6	1.2	1.0	1.3	1.5	1.9			
Spain	3.0	2.7	2.0	2.0	1.8	1.8			
Emerging	5.9	5.8	5.8	2.4	2.9	2.9			
China	6.9	6.4	6.1	1.6	2.1	1.9			
India	6.7	7.4	7.6	3.6	4.8	4.6			
Brazil	1.0	1.5	3.0	3.4	3.7	3.7			
Russia	1.5	1.7	1.7	3.7	2.7	4.1			
		_		– .					

Source: BNP Paribas Group Economic Research (e: Estimates & forecasts)

#### **INTEREST RATES & FX RATES**

Intere	est rates, %	2018	2019						
End of	period	Q4e	Q1e	Q2e	Q3e	Q4e	2017	2018e	2019e
US	Fed Funds	2.50	2.75	2.75	2.75	2.75	1.50	2.50	2.75
	Libor 3m \$	2.36	2.80	2.85	2.65	2.55	1.69	2.36	2.55
	T-Notes 10y	3.10	3.15	3.20	3.10	3.00	2.41	3.10	3.00
Ezone	ECB Refi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Euribor 3m	-0.30	-0.30	-0.25	-0.20	-0.15	-0.33	-0.30	-0.15
	Bund 10y	0.75	0.85	1.00	1.10	1.20	0.42	0.75	1.20
	OAT 10y	1.00	1.10	1.25	1.35	1.45	0.66	1.00	1.45
UK	Base rate	0.75	0.75	1.00	1.00	1.25	0.50	0.75	1.25
	Gilts 10y	1.55	1.70	1.80	1.90	2.00	1.23	1.55	2.00
Japan	BoJ Rate	-0.10	-0.10	-0.10	-0.10	-0.10	-0.04	-0.10	-0.10
	JGB 10y	0.14	0.12	0.10	0.04	0.02	0.05	0.14	0.02

Exch	ange Rates		2019						
End of	period	Q4e	Q1e	Q2e	Q3e	Q4e	2017	2018e	2019e
USD	EUR/USD	1.20	1.22	1.25	1.28	1.30	1.20	1.20	1.30
	USD/JPY	106	102	100	99	98	113	106	98
	GBP / USD	1.30	1.34	1.40	1.45	1.49	1.35	1.30	1.49
	USD / CHF	0.97	0.97	0.96	0.95	0.94	0.97	0.97	0.94
EUR	EUR / GBP	0.92	0.91	0.89	0.88	0.87	0.89	0.92	0.87
	EUR / CHF	1.16	1.18	1.20	1.22	1.22	1.17	1.16	1.22
	EUR/JPY	127	124	125	127	127	135	127	127

Source: GlobalMarkets (e: Estimates & forecasts)



# **GROUP ECONOMIC RESEARCH**

■ William DE VIJLDER Chlef Economist	+33(0)1 55 77 47 31	william.devijlder@bnpparibas.com
ADVANCED ECONOMIES AND STATISTICS		
Jean-Luc PROUTAT	+33.(0)1.58.16.73.32	jean-luc.proutat@bnpparibas.com
Alexandra ESTIOT     Works coordination - United States - United Kingdom - Globalisation	+33.(0)1.58.16.81.69	alexandra.estiot@bnpparibas.com
Hélène BAUDCHON France (short-term outlook and forecasts) - Labour markets	+33.(0)1.58.16.03.63	helene.baudchon@bnpparibas.com
Louis BOISSET     European central bank watch, Euro area global view, Japan	+33.(0)1.57.43.02.91	louis.boisset@bnpparibas.com
Frédérique CERISIER  Euro Area (European governance and public finances), Spain, Portugal	+33.(0)1.43.16.95.52	frederique.cerisier@bnpparibas.com
Catherine STEPHAN  Nordic countries - World trade - Education, health, social conditions	+33.(0)1.55.77.71.89	catherine.stephan@bnpparibas.com
Raymond VAN DER PUTTEN  Germany, Netherlands, Austria, Switzerland - Energy, climate - Long-term projections	+33.(0)1.42.98.53.99	raymond.vanderputten@bnpparibas.com
■ Tarik RHARRAB  Statistics and Modelling	+33.(0)1.43.16.95.56	tarik.rharrab@bnpparibas.com
BANKING ECONOMICS		
■ Laurent QUIGNON	+33.(0)1.42.98.56.54	laurent.quignon@bnpparibas.com
Laure BAQUERO  Céline CHOULET Thomas HUMBLOT  EMERGING ECONOMIES AND COUNTRY RISK	+33.(0)1.43.16.95.50 +33.(0)1.43.16.95.54 +33.(0)1.40.14.30.77	laure.baquero@bnpparibas.com celine.choulet@bnpparibas.com thomas.humblot@bnpparibas.com
	00 (0)1 10 00 70 00	formation and the second second
François FAURE Head	+33.(0)1 42 98 79 82	francois.faure@bnpparibas.com
Christine PELTIER     Deputy Head - Greater China, Vietnam, other North Asian countries, South Africa	+33.(0)1.42.98.56.27	christine.peltier@bnpparibas.com
Stéphane ALBY Africa (French-speaking countries)	+33.(0)1.42.98.02.04	stephane.alby@bnpparibas.com
Sylvain BELLEFONTAINE Turkey, Ukraine, Central European countries	+33.(0)1.42.98.26.77	sylvain.bellefontaine@bnpparibas.com
Sara CONFALONIERI Africa (Portuguese & English-speaking countries)	+33.(0)1.42.98.43.86	sara.confalonieri@bnpparibas.com
Pascal DEVAUX  Middle East, Balkan countries	+33.(0)1.43.16.95.51	pascal.devaux@bnpparibas.com
<ul> <li>Hélène DROUOT</li> <li>Korea, Thailand, Philippines, Mexico, Andean countries</li> </ul>	+33.(0)1.42.98.33.00	helene.drouot@bnpparibas.com
Salim HAMMAD Latin America	+33.(0)1.42.98.74.26	salim.hammad@bnpparibas.com
Johanna MELKA India, South Asia, Russia, Kazakhstan, CIS	+33.(0)1.58.16.05.84	johanna.melka@bnpparibas.com
■ Michel BERNARDINI Contact Média	+33.(0)1.42.98.05.71	michel.bernardini@bnpparibas.com



# **OUR PUBLICATIONS**



# **CONJONCTURE**

Structural or in news flow, two issues analysed in depth



# **EMERGING**

Analyses and forecasts for a selection of emerging economies



# **PERSPECTIVES**

Analyses and forecasts for the main countries, emerging or developed



# **ECOFLASH**

Data releases, major economic events. Our detailed views...



# **ECOWEEK**

Weekly economic news and much more...



# ECOTV

In this monthly web TV, our economists make sense of economic news



# FCOTV WFFK

What is the main event this week? The answer is in your two minutes of economy

The information and opinions contained in this report have been obtained from, or are based on, public sources believed to be reliable, but no representation or warranty, express or implied, is made that such information is accurate, complete or up to date and it should not be relied upon as such. This report does not constitute an offer or solicitation to buy or sell any securities or other investment. It does not constitute investment advice, nor financial research or analysis. Information and opinions contained in the report are not to be relied upon as authoritative or taken in substitution for the exercise of judgement by any recipient; they are subject to change without notice and not intended to provide the sole basis of any evaluation of the contained in the report are not to be relied upon as authorisative of taken in substitution for the exercise of judgment by any recipient; they are subject to change without notice and not intended to provide the sole basis of any evaluation of the instruments discussed herein. Any reference to past performance should not be taken as an indication of fluture performance. To the fullest extent permitted by law, no BNP aribas group company accepts any liability whistoever (indication in region or any direct or consequential loss arising from any use of or reliance on material contained in this report. All estimates and opinions included in this report are made as of the date of this report. Unless otherwise indicated in this report. BNP Paribas S as of the date of this report. Unless otherwise indicated in this report. BNP Paribas S A and its affiliates (collectively "BNP Paribas") may make a market in, or mgy, as principal or agent, but yor sell securities of any issuer or person mentioned in this report, including a long or short position in their securities and/or options, futures or other derivative instruments based thereon. Prices, yields and other similar information included in the information purposes. Numerous factors will affect market princing and there is no certainty that transactions could be executed at these prices. BNP Paribas, including its officers and employees may serve or have served as an officer, director or in an advisory capacity for any person mentioned in this report. BNP Paribas may be very from time to time, solicit, perform or have performed investment banking, underwriting or other services (including acting as advisor, manager, underwriter or lender) within the last 12 months for any person mentioned in this report. BNP Paribas may be used to any person mentioned in this report. BNP Paribas may be party to an agreement with dery within the last 12 months for any person mentioned in this report. BNP Paribas may be sport, any aperson mentioned in this report to the extent permitted

BNP Paribas is incorporated in France with limited liability. Registered Office 16 Boulevard des Italiens, 75009 Paris. This report was produced by a BNP Paribas group company. This report is for the use of intended recipients and may not be reproduced (in whole or in part) or delivered or transmitted to any other person without the prior written consent of BNP Paribas. By accepting this document you agree to be bound by the foregoing limitations.

#### Certain countries within the European Economic Area

This report has been approved for publication in the United Kingdom by BNP Paribas London Branch. BNP Paribas London Branch is suthorised and supervised by the Autorité de Contrôle Prudentiel and suthorised and subject to limited regulation by the Financial Services Authority. Details of the extent of our authorisation and regulation by the Financial Services Authority are available from us on request.

This report has been approved for publication in France by BNP Paribas SA. BNP Paribas SA is incorporated in France with Limited Liability and is authorised by the Autorité de Contrôle Prudentiel (ACP) and regulated by the Autorité des Marchés Financiers (AMF). Its head office is 16, boulevard des Italiens 75009 Paris, France.

This report is being distributed in Germany either by BNP Paribas London Branch or by BNP Paribas Niederlassung Frankfurt agn Main, a branch of BNP Paribas S.A. whose head office is in Paris, France. BNP Paribas S.A. — Niederlassung Frankfurt am Main, Europa Allee 12, 60327 Frankfurt is suthorised and supervised by the Autorité de Contrôle Prudentiel and it is authorised and subject to limited regulation by the Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin).

United States: This report is being distributed to US persons by BNP Paribas Securities Corp., or by a subsidiary or affiliate of BNP Paribas that is not registered as a US broker-dealer. BNP Paribas Securities Corp., a subsidiary of BNP Paribas, is a broker-dealer registered with the U.S. Securities and Exchange Commission and a member of the Financial Industry Regulatory Authority and other principal exchanges. SNP Paribas Securities Corp. socepts responsibility for the content of a report prepared by another non-U.S. affiliate only when distributed to U.S. persons by BNP Paribas Securities Corp.

prepared by another non-U.S. affiliate only when distributed to U.S. persons by BNP Paribas Securities Corp.

Japan: This report is being distributed in Japan by BNP Paribas Securities (Japan) Limited or by a subsidiary or affiliate of BNP

Paribas notregistered as a financial instruments firmin Japan, to certain financial institutions defined by article 17-3, fitem 1 of

the Financial Instruments and Exchange Law Enforcement Order. BNP Paribas Securities (Japan) Limited is a financial
instruments firm registered according to the Financial Instruments and Exchange Law of Japan and a member of the Japan

Securities Dealers Association and the Financial Instruments and Exchange Law of Japan and a member of the Japan

Securities Dealers Association and the Financial Instruments and Exchange Law of Japan. BNP Paribas Securities (Japan) Limited accepts

responsibility for the content of a report prepared by another non-Japan affiliate only when distributed to Japanese based firms

by BNP Paribas Securities (Japan) Limited. Some of the foreign securities stated on this report are not disclosed according to

the Financial Instruments and Exchange Law of Japan.

Hong Kong: This report is being distributed in Hong Kong by BNP Paribas Hong Kong Branch, a branch of BNP Paribas whose head office is in Paris, France. BNP Paribas Hong Kong Branch is registered as a Licensed Bankunder the Banking Ordinance and regulated by the Hong Kong Monetary Authority. BNP Paribas Hong Kong Branch is also a Registered Institution regulated by the Securities and Futures Commission for the conduct of Regulated Activity Types 1, 4 and 6 under the Securities and Futures Ordinance.

Some or all the information reported in this document may already have been published on <a href="https://globalmarkets.bnpparibas.com">https://globalmarkets.bnpparibas.com</a>

® BNP Paribas (2015). All rights reserved

© BNP Paribas (2015). All rights reserved Prepared by Economic Research - BNP PARIBAS

Registered Office: 16 boulevard des Italiens - 75009 PARIS

Tel: +33 (0) 1.42.98.12.34 - Internet:

www.group.bnpparibas.com

Publisher: Jean Lemierre. Editor: William De Vijlder



POUR RECEVOIR NOS PUBLICATIONS

**VOUS POUVEZ VOUS ABONNER SUR** 

NOTRE SITE ONGLET ABONNEMENT

http://economic-research.bnpparibas.com

E

