ECOWEEK

No. 18-45, 07 December 2018

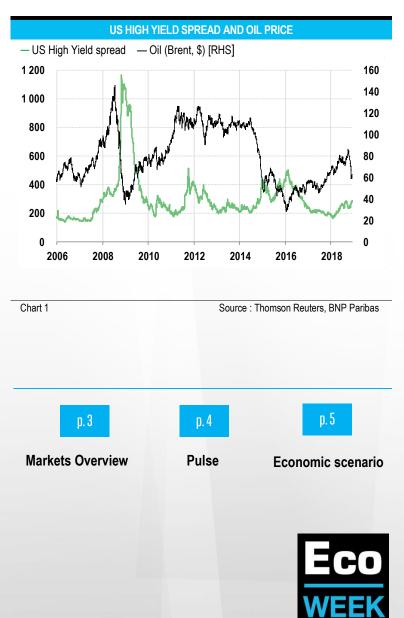
The decline of commodity prices: A matter of concern?

Oil and metals prices are down significantly this year
 For oil this seems to be predominantly driven by supply factors
 The decline of metal prices probably reflects the softening of global growth
 There is a clear negative relationship between oil price changes and subsequent US real GDP growth
 US growth is expected to face a number of headwinds in 2019 but the decline of the price of oil should act as a tailwind

From their highs earlier this year industrial metals are on average down about 20% and Brent oil about 30%. Looking at commodities as inputs in production processes, this type of decline provides ample reason for concern. This is the signalling role of commodity prices. However, they can also be considered as a driver of demand: big commodity price drops represent a favourable supply shock which should end up boosting final demand in the economy and hence economic growth.

This is the interpration that president Trump seems to be favouring. His pressure on Saudi Arabia and OPEC in general, not to cut production would, if successful, make the decline in oil prices permanent. Generally speaking this should support growth although oil producers would suffer from declining margins. Unsurprisingly the spread of the US high yield bond index, which has a high percentage (close to 16%) of energy producers, has widened significantly, mirroring the drop in oil prices (chart 1). Does the tug of war between US shale oil producers and oil exporting countries fully explain the behaviour of the oil market in recent months or does it also signal weaker demand? Based on econometric techniques, the weekly Oil Price Dynamics report of the Federal Reserve of New York provides a decomposition of the change in oil prices in demand and supplyrelated factors¹. This analysis suggests that the 27.3% drop in the price of Brent oil between 6 July and 30 November, reflects a softening of demand effect of 5.5%, a supply effect of 15.6% and an unexplained residual of 6.2%. This result provides some relief to those who would interpret recent oil price developments as an additional sign of weakening global growth, in conjunction with weaker survey data. .../...

¹ This decomposition is based on regression analysis of a large number of variables which are correlated with oil demand and supply. For more details see: Groen, J., K. McNeil, and M. Middeldorp, *A New Approach for Identifying Demand and Supply Shocks in the Oil Market*. Liberty Street Economics, 25 March 2013.



ECONOMIC RESEARCH DEPARTMENT



Caution is nevertheless warranted. In a recent blogpost, an economist at the Bank of England has demonstrated that "metals prices are timely, highly correlated with world economic activity and perform well at predicting short-term movements in GDP."² This is confirmed in table 1 which shows a statistically significant positive correlation between the quarterly change in metal prices (LMEX) and real GDP growth in the current and following quarter, so lower metal prices point to slower growth. For Brent oil however the relationship is negative and not statistically significant.

² Source: Pumping iron: how can metals prices help predict global growth?, Tom Wise, Bank Underground (Bank of England), 17 July 2018 The role of commodity prices as a driver of subsequent growth was analysed on the basis of model-based simulations. Using the NiGEM model, a permanent decline in the price of oil of 25% has a positive impact on the level of US real GDP after two years of about 1%. In the eurozone the impact is about 0.7% (*chart 2*). A drop in metal prices on the other hand has a negligible and short-lived impact (*chart 3*). Metal prices may be useful when producing a real-time estimate of economic growth, but in the short to medium term, it is the price of oil that matters.

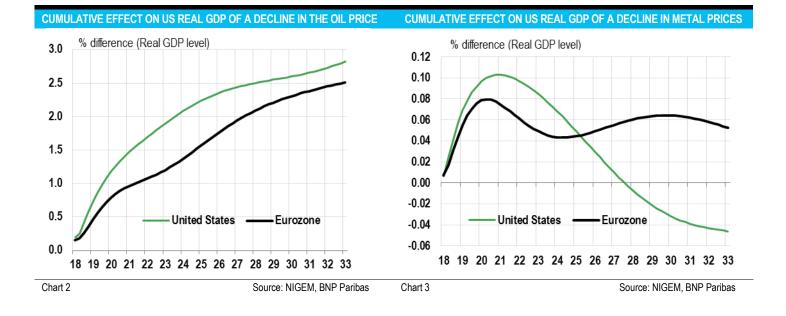
William De Vijlder

	United S	States	Euroz	one
	GDP(t+2)	GDP(t+2)	GDP(t+2)	GDP(t+2)
LMEX	0.013548 [3.7635]***		0.016451 [3.5927]***	
Brent		-0.00091 [-0.5011]		0.00528 [1.8053]
с	0.633978 [16.1000]***	0.696045 [14.7118]***	0.371452 [7.3112]***	0.37535 [6.9656]**
Obs:	135	193	93	9
R2	0.0962	0.0013	0.1242	0.034
F-stat:	14.1642	0.2511	12.9078	3.259
Prob(F-stat):	0.0003	0.6169	0.0005	0.074

GDP(t+2) means average growth over the current and following quarter.

Table1

Source: Thomson Reuters, BNP Paribas calculations





Markets overview

The essentials

Week 30-11 18 >	6-12-18	8			
SAC 40	5 004	►	4 780	-4.5	%
≥ S&P 500	2 760	►	2 696	-2.3	%
◄ Volatility (VIX)	18.1	►	21.2	+3.1	pb
 	-0.32	►	-0.32	+0.1	bp
↗ Libor \$ 3M (%)	2.74	►	2.77	+3.0	bp
🔰 OAT 10y (%)	0.68	►	0.65	-2.5	bp
🔰 Bund 10y (%)	0.31	►	0.22	-8.5	bp
🔰 US Tr. 10y (%)	3.02	►	2.88	-13.9	bp
オ Euro vs dollar	1.13	►	1.14	+0.5	%
オ Gold (ounce, \$)	1 219	►	1 243	+2.0	%
↗ Oil (Brent, \$)	58.7	▶	58.9	+0.2	%

Money & Bond Markets

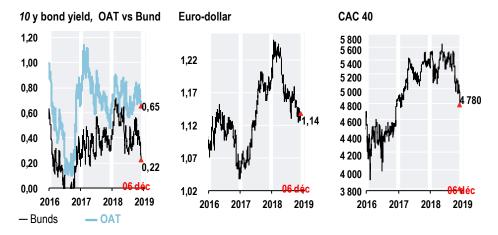
h	nterest Rates		higl	nest' 18	low	est' 18
€	ECB	0.00	0.00	at 01/01	0.00	at 01/01
	Eonia	-0.36	-0.34	at 31/10	-0.37	at 18/05
	Euribor 3M	-0.32	-0.32	at 06/12	-0.33	at 01/01
	Euribor 12M	-0.14	-0.14	at 06/12	-0.19	at 19/02
\$	FED	2.25	2.25	at 27/09	1.50	at 01/01
	Libor 3M	2.77	2.77	at 05/12	1.69	at 01/01
	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	0.90	0.90	at 29/11	0.52	at 04/01
	Libor 12M	1.16	1.17	at 14/11	0.76	at 03/01
A	t 6-12-18	_				-

Commodities

Spot price in o	low	est'	18	2018(€)	
Oil, Brent	58,9	58,7	at	30/11	-6.7%
Gold (ounce)	1 243	1 179	at	17/08	+0.6%
Metals, LMEX	2 921	2 820	at	15/08	-9.9%
Copper (ton)	6 080	5 759	at	15/08	-11.0%
CRB Foods	333	316	at	30/08	+4.5%
w heat (ton)	198	155	at	16/01	+31.4%
Corn (ton)	137	115	at	18/09	+14.0%
At 6-12-18			-	Va	riations

Exchange Rates

1€ =		high	est' 18	low	esť	18	2018
USD	1.14	1.25	at 25/01	1.13	at	12/11	-5.2%
GBP	0.89	0.91	at 28/08	0.86	at	17/04	+0.3%
CHF	1.13	1.20	at 19/04	1.12	at	07/09	-3.5%
JPY	127.89	137.29	at 02/02	124.96	at	15/08	-5.5%
AUD	1.58	1.63	at 11/09	1.53	at	09/01	+2.8%
CNY	7.84	8.10	at 25/09	7.42	at	29/05	+0.2%
BRL	4.46	4.88	at 14/09	3.87	at	08/01	+12.0%
RUB	76.27	81.62	at 10/09	68.06	at	09/01	+10.3%
INR	80.64	85.66	at 11/10	75.92	at	08/01	+5.2%
4t 6-1	2-18					Var	iations



Yie	d (%)		higl	nes	ť 18	low	est' 18
€ A'	VG 5-7y	0.67	1.06	at	19/10	0.41	at 18/04
B	und 2y	-0.63	-0.50	at	25/09	-0.79	at 29/05
B	und 10y	0.22	0.72	at	15/02	0.22	at 06/12
0	AT 10y	0.65	0.91	at	08/02	0.57	at 13/07
С	orp. BBB	2.09	2.10	at	05/12	1.17	at 08/01
\$ Tı	reas. 2y	2.76	2.97	at	08/11	1.89	at 01/01
Т	eas. 10y	2.88	3.23	at	08/11	2.41	at 01/01
С	orp. BBB	4.75	4.77	at	29/11	3.59	at 01/01
£Τι	reas. 2y	0.70	0.91	at	05/10	0.40	at 01/01
Т	reas. 10y	1.23	1.73	at	10/10	1.23	at 01/01
At 6	5-12-18						

6 déc

2016 2017 2018 2019

Equity indices

Oil (Brent, \$)

88 80

72

64

56

48

40

32

24



M	1.1	1 243	351
ľ		M,	342 333
	1		333
			324
16	2017 20	<mark>, 06%léc</mark>)18 2019	315 2016

	Index	high	iest	' 18	low	est'	18	2018	2018(€)
CAC 40	4 780	5 640	at	22/05	4 780	at	06/12	-10.0%	-10.0%
S&P500	2 696	2 931	at	20/09	2 581	at	08/02	+0.8%	+6.4%
DAX	10 811	13 560	at	23/01	10 811	at	06/12	-16.3%	-16.3%
Nikkei	21 502	24 271	at	02/10	20 618	at	23/03	-5.5%	-0.1%
China*	74	101	at	26/01	68	at	30/10	-16.7%	-12.2%
India*	535	642	at	29/01	487	at	26/10	-2.8%	-7.6%
Brazil*	1 957	2 393	at	26/01	1 561	at	11/09	+14.3%	+2.0%
Russia*	602	707	at	26/02	551	at	23/08	+13.6%	+5.0%
At 6-12-18	8							Vai	riations

10y bond yield & spreads 5.01%

3.21%

1.81%

1.47%

0.73%

0.65%

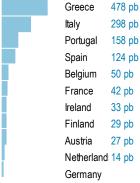
0.56%

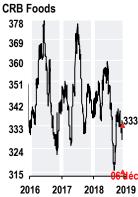
0.52%

0.49%

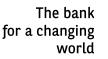
0.37%

0.22%





* MSCI index



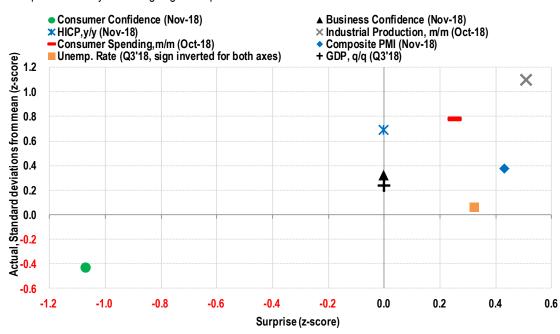




Pulse

France: Good economic performance in October

Except consumer confidence, which dropped off sharply in November, surprising again on the downside and still standing well below its average, the other economic indicators available to date are positive. In particular, the big rise in October of household expenditure on goods (+0.8 % m/m, real terms), industrial output (+1.2 % m/m, real terms) and goods exports (+6.2 % m/m, nominal terms) helps start the fourth quarter on a positive note. However, growth that quarter (+0.6 % q/q according to our forecasts made a couple of weeks ago) may end up being weaker depending on the impact on activity of the ongoing social protests.



Source: INSEE, Markit, Bloomberg, BNP Paribas calculations

Source: Markit, BNP Paribas

Indicators preview

The market focus next week will be on the parliamentary vote in the UK on 11 December on the Brexit deal. On the economic front, the highlight of the week is the ECB Governing Council meeting. In terms of data attention will go to the Banque de France industrial sentiment index, the payroll numbers in France, employment numbers for the eurozone, inflation in the US (PPI and CPI), inflation in France and Germany, the Markit PMI numbers in several countries, US retail sales and, in Japan, the Tankan survey.

Date	Country/Region	Event	Period	Survey	Prior
12/10/18	Japan	GDP SA QoQ	3Q	-0.5%	-0.3%
12/10/18	France	Bank of France Ind. Sentiment	Nov		103
12/10/18	United Kingdom	Industrial Production MoM	Oct		0.0%
12/10/18	Japan	Eco Watchers Survey Current SA	Nov		49.5
12/11/18	France	Total Payrolls	3Q		0.0%
12/11/18	United Kingdom	ILO Unemployment Rate 3Mths	Oct	4.1%	4.1%
12/11/18	United States	NFIB Small Business Optimism	Nov		107.4
12/11/18	United States	PPI Ex Food and Energy MoM	Nov	0.1%	0.5%
12/12/18	Eurozone	Industrial Production SA MoM	Oct		-0.3%
12/12/18	Eurozone	Employment QoQ	3Q		0.2%
12/12/18	United States	CPI MoM	Nov	0.0%	0.3%
12/13/18	Germany	CPI MoM	Nov		0.1%
12/13/18	France	CPI MoM	Nov		-0.2%
12/13/18	Eurozone	ECB Main Refinancing Rate	Dec 13	0.000%	0.000%
12/14/18	Japan	Tankan Large Mfg Index	4Q	18	19
12/14/18	France	Markit France Composite PMI	Dec		54.2
12/14/18	Eurozone	Markit Eurozone Composite PMI	Dec		52.7
12/14/18	United States	Retail Sales Advance MoM	Nov	0.2%	0.8%
12/14/18	United States	Industrial Production MoM	Nov	0.4%	0.1%



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, weaker international trade as well as tighter monetary and financial conditions promise a slowdown.

- Inflation has passed its peak, as oil prices are now falling.
- The monetary tightening is coming closer to its end. We forecast the Fed funds target rate to reach 3% in Q2 2019, the stalling.

CHINA

• Economic growth will decelerate in 2018-2019 due to both structural and cyclical reasons. The export outlook is significantly darkened by US tariff hikes. 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 is easing liquidity and credit conditions. At the same time, the reduction in financial instability risks via regulatory tightening should remain a top policy priority. Fiscal policy is also turning expansionary (tax cuts, increased infrastructure spending).

EUROZONE

• The slowdown is becoming increasingly evident, especially in the German economy, which encounters capacity constraint and suffers from reduce demand coming from the EMEs.

 Inflation is now expected to decelerate with falling oil price, while core CPI trend remains subdued. We do not expect the ECB to move rates before 19Q4 (see below)

FRANCE

 Growth slows down but remains above potential. Households' consumption should get a boost from the 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 2 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).

GDP Growth Inf						
2018 e	2019 e	2020 e		2018 e	2019 e	2020 e
2.2	1.7	1.3		2.0	1.7	1.8
2.9	2.1	1.5		2.4	1.8	2.0
0.9	0.7	0.3		1.0	0.6	1.4
1.3	1.8	1.6		2.4	2.0	2.0
1.9	1.4	1.2		1.8	1.8	1.5
1.6	1.5	1.3		1.9	2.2	1.6
1.7	1.6	1.3		2.1	1.7	1.6
1.0	0.6	0.5		1.3	1.5	1.2
2.5	2.2	2.0		1.8	1.7	1.3
5.9	5.9	5.7		2.8	2.7	3.1
6.6	6.2	6.0		2.2	1.9	2.5
7.4	7.6	7.8		3.8	4.0	4.1
1.3	3.0	2.5		3.7	3.8	3.6
1.8	1.7	1.6		2.8	3.6	4.2
	2018 e 2.2 2.9 0.9 1.3 1.9 1.6 1.7 1.0 2.5 5.9 6.6 7.4 1.3	2018 e 2019 e 2.2 1.7 2.9 2.1 0.9 0.7 1.3 1.8 1.9 1.4 1.6 1.5 1.7 1.6 1.0 0.6 2.5 2.2 5.9 5.9 6.6 6.2 7.4 7.6 1.3 3.0	2018 e 2019 e 2020 e 2.2 1.7 1.3 2.9 2.1 1.5 0.9 0.7 0.3 1.3 1.8 1.6 1.9 1.4 1.2 1.6 1.5 1.3 1.7 1.6 1.3 1.0 0.6 0.5 2.5 2.2 2.0 5.9 5.9 5.7 6.6 6.2 6.0 7.4 7.6 7.8 1.3 3.0 2.5	2018 e 2019 e 2020 e 2.2 1.7 1.3 2.9 2.1 1.5 0.9 0.7 0.3 1.3 1.8 1.6 1.9 1.4 1.2 1.6 1.5 1.3 1.7 1.6 1.3 1.7 2.9 2.0 5.9 2.2 2.0 5.9 5.9 5.7 6.6 6.2 6.0 7.4 7.6 7.8 1.3 3.0 2.5	2018 e 2019 e 2020 e 2018 e 2.2 1.7 1.3 2.0 2.9 2.1 1.5 2.4 0.9 0.7 0.3 1.0 1.3 1.8 1.6 2.4 1.9 1.4 1.2 1.8 1.6 1.5 1.3 1.9 1.7 1.6 1.3 2.1 1.0 0.6 0.5 1.3 2.5 2.2 2.0 1.8 5.9 5.9 5.7 2.8 6.6 6.2 6.0 2.2 7.4 7.6 7.8 3.8 1.3 3.0 2.5 3.7	2018 e 2019 e 2020 e 2018 e 2019 e 2.2 1.7 1.3 2.0 1.7 2.9 2.1 1.5 2.4 1.8 0.9 0.7 0.3 1.0 0.6 1.3 1.8 1.6 2.4 2.0 1.9 1.4 1.2 1.8 1.8 1.6 1.5 1.3 1.9 2.2 1.7 1.6 1.3 2.1 1.7 1.0 0.6 0.5 1.3 1.5 2.5 2.2 2.0 1.8 1.7 5.9 5.9 5.7 2.8 2.7 6.6 6.2 6.0 2.2 1.9 7.4 7.6 7.8 3.8 4.0 1.3 3.0 2.5 3.7 3.8 1.8 1.7 1.6 2.8 3.6

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

INTEREST RATES & FX RATES

Intere	st rates, %	2018	2019						
End of p	period	Q4e	Q1e	Q2e	Q3e	Q4e	2018e	2019e	2020e
US	Fed Funds	2.50	2.75	3.00	3.00	3.00	2.50	3.00	3.00
	Libor 3m \$	2.65	2.90	3.05	3.05	3.05	2.65	3.05	2.80
	T-Notes 10y	3.20	3.30	3.40	3.45	3.50	3.20	3.50	3.25
Ezone	ECB Refi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
	Euribor 3m	-0.30	-0.30	-0.25	-0.20	-0.15	-0.30	-0.15	0.00
	Bund 10y	0.55	0.55	0.60	0.80	1.00	0.55	1.00	0.90
	OAT 10y	0.90	0.95	1.00	1.10	1.25	0.90	1.25	1.15
UK	Base rate	0.75	0.75	1.00	1.00	1.25	0.75	1.25	1.50
	Gilts 10y	1.20	1.70	1.85	2.00	2.10	1.20	2.10	2.10
Japan	BoJ Rate	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
	JGB 10y	0.14	0.15	0.15	0.15	0.14	0.14	0.14	0.08

Source : BNP Paribas GlobalM arkets (e: Estimates & forecasts)

Exchange Rates			2019						
End of period		Q4e	Q1e	Q2e	Q3e	Q4e	2018e	2019e	2020e
USD	EUR/USD	1.14	1.15	1.17	1.21	1.25	1.14	1.25	1.34
	USD / JPY	111	110	108	105	100	111	100	90
	GBP / USD	1.27	1.32	1.36	1.41	1.47	1.27	1.47	1.58
	USD / CHF	0.99	1.01	1.00	0.98	0.96	0.99	0.96	0.93
EUR	EUR/GBP	0.90	0.87	0.86	0.86	0.85	0.90	0.85	0.85
	EUR / CHF	1.13	1.16	1.17	1.18	1.20	1.13	1.20	1.25
	EUR / JPY	127	127	126	127	125	127	125	121
-						,			

Source : BNP Paribas GlobalMarkets (e: Estimates & forecasts)





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