Trend Macrolytics, LLC

Research and strategy

Donald L. Luskin Chief Investment Officer Chicago IL

Dr. Michael Warren Energy Strategist Houston TX Client service

Thomas R. Demas Managing Director Charlotte NC



US

- CPI/PPI
- Unconventional CPI
- Federal Reserve
- GDP
- Jobs
- Oil
- Favorite Things

Global

- Equity Risk Premia
- PMI
- Real Rates and Yields
- Euro Area Recovery Monitor

Data Insights



Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

Data Insights: Consumer Price Index, Producer Price Index

Tuesday, October 18, 2016

Today's CPI data: what you need to know							
	12-mo YOY	3-mo ann	1-mo ann	12 / 3/ 1-mo	12-mo YOY history		
All items	+1.46%	+1.8%	+3.6%				
Core	+2.2%	+1.9%	+1.4%				
OER	+3.4%	+3.8%	+4.3%				
All less OER	+1.2%	+1.9%	+3.6%				
Core less OER	+1.5%	+0.7%	-0.4%				
Energy	-2.9%	+5.3%	+41.5%				
All less energy	+1.8%	+1.6%	+1.2%				
Food	-0.2%	+0.1%	+0.4%				
All less food	+1.8%	+2.1%	+4.1%				
Health care	+4.9%	+7.1%	+1.8%				
All less health care	+1.2%	+1.4%	+3.7%				
0 0 0	D		1 1 2				

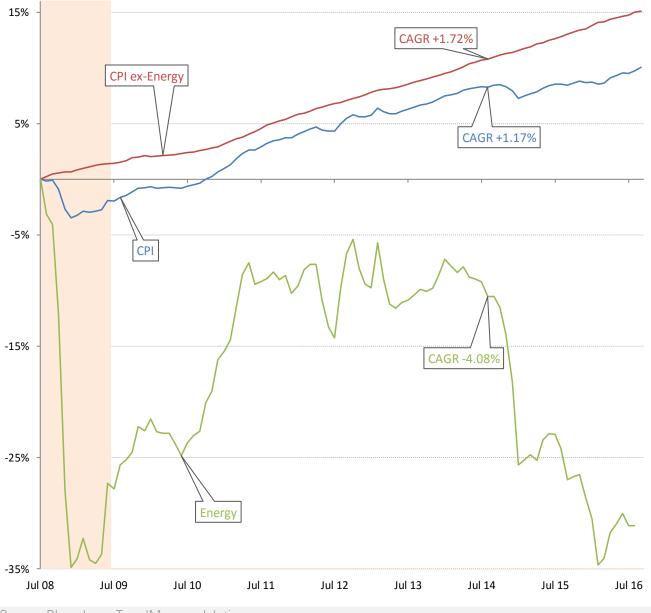
Source: BLS Consumer Price Index, TrendMacro calculations

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com Thomas Demas: 704 552 3625 tdemas@trendmacro.com

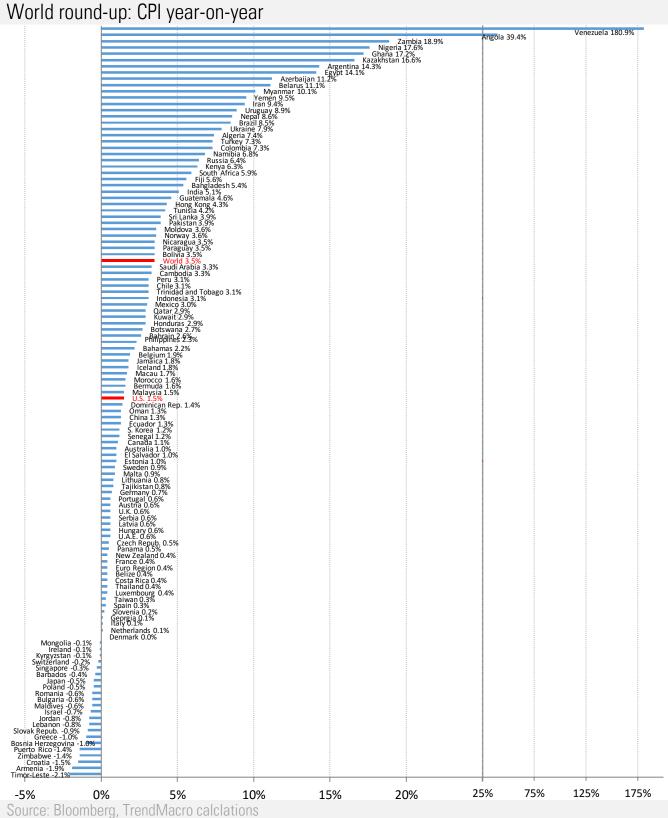
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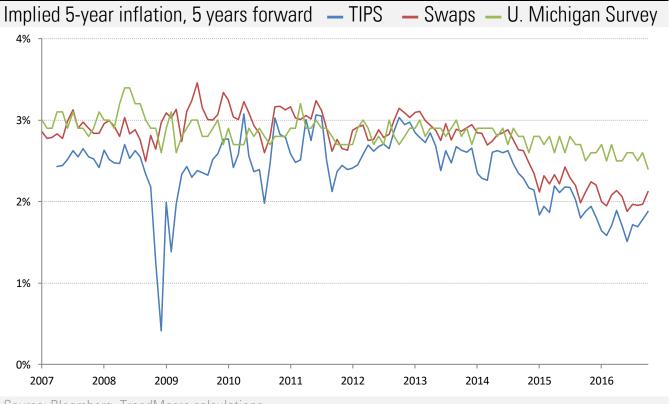
The deflation delusion: it's all about oil, and always has been Cumulative growth of CPI from July 2008, the all-time high oil price



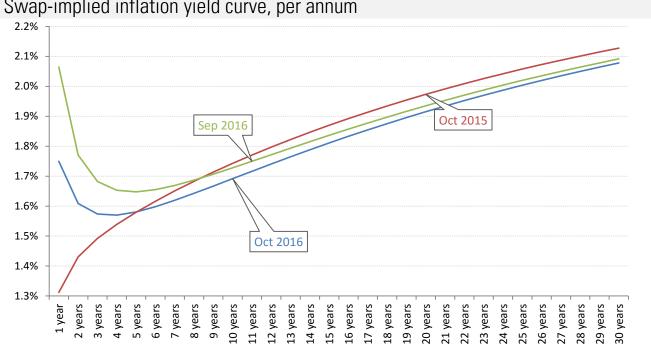
Source: Bloomberg, TrendMacro calclations

World round-up: CPI year-on-year



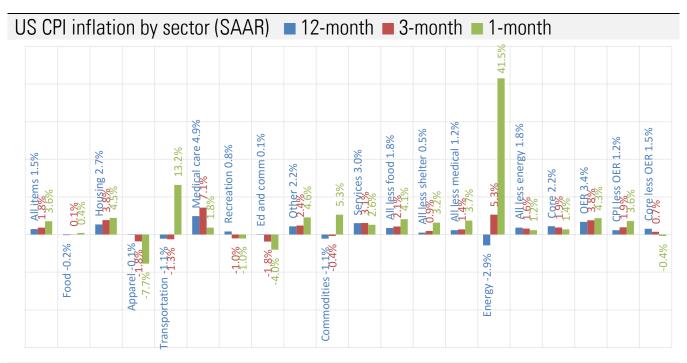


Source: Bloomberg, TrendMacro calculations

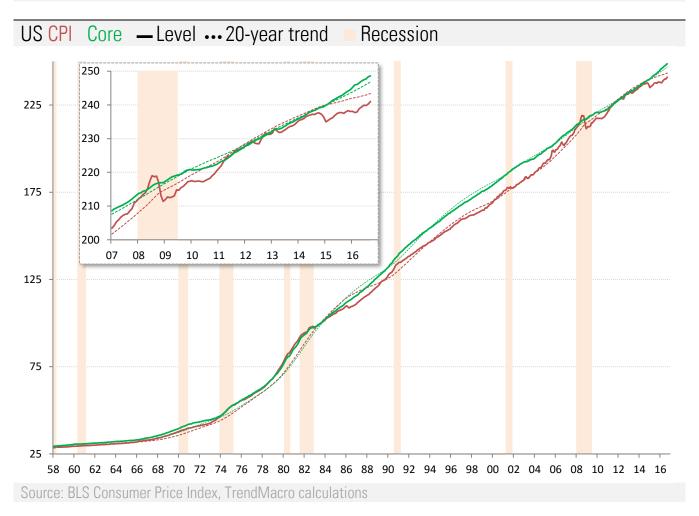


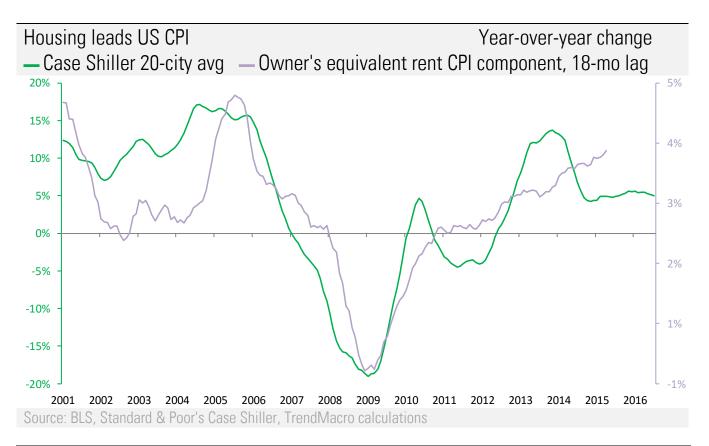
Swap-implied inflation yield curve, per annum

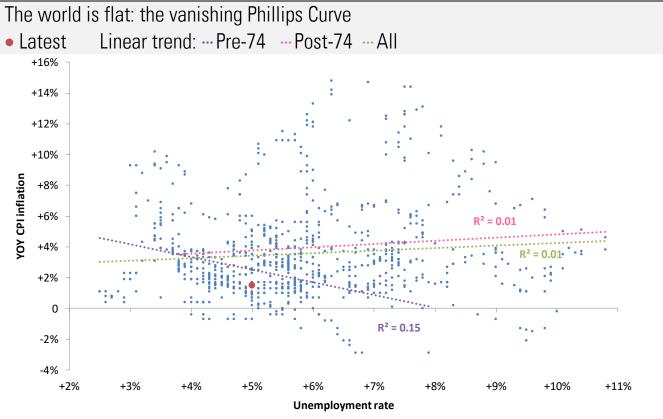
Source: Cleveland Fed, TrendMacro calculations



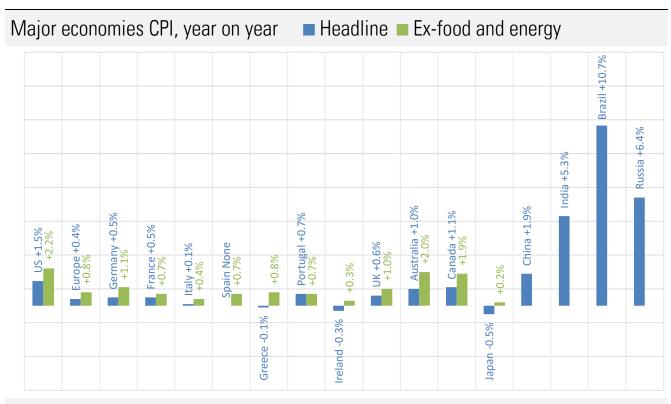
Source: BLS Consumer Price Index, TrendMacro calculations



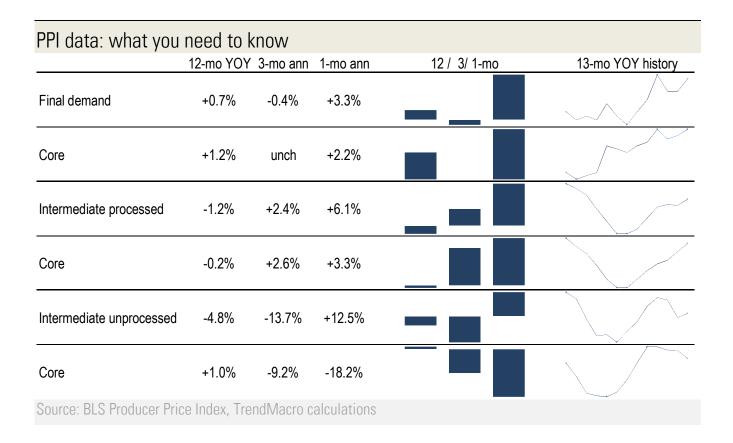


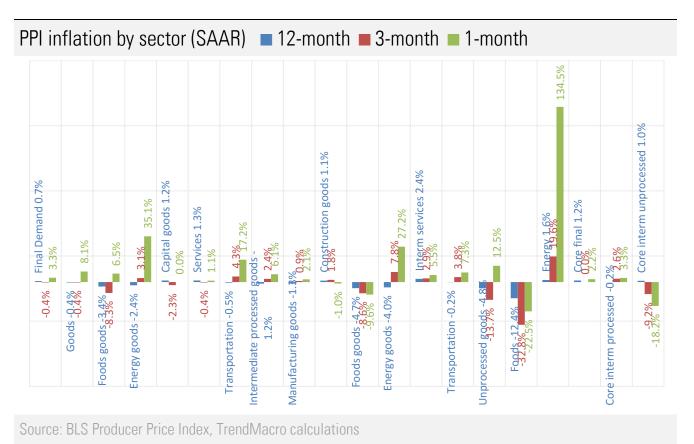


Source: BLS Consumer Price Index, Current Population Survey

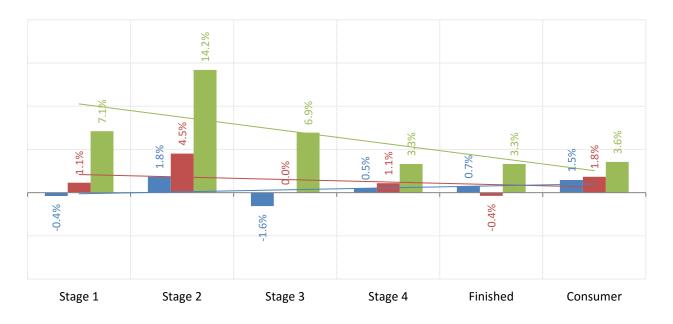


Source: Respective Statistical agencies, TrendMacro calculations









Source: BLS Producer Price Index and Consumer Price Index, TrendMacro calculations



Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

Data Insights: Unconventional Consumer Price Indices

Tuesday, October 18, 2016

Today's unconven	tional CPI	data: w	hat you nee	d to know	
-	12-mo YOY	3-mo ann	1-mo ann	12 / 3 / 1-mo	12-mo YOY history
All items	+1.5%	+1.8%	+3.6%		
Core	+2.2%	+1.9%	+1.4%		
All items NSA	+1.5%	+0.7%	+2.9%		
Core NSA	+2.2%	+1.5%	+2.2%		
PCE deflator Aug	+1.0%	+1.2%	+1.7%		
Core PCE deflator Aug	+1.7%	+1.5%	+2.2%		
Median CPI	+2.5%	+2.5%	+2.1%		~~~~~
Trimmed mean CPI	+2.1%	+2.2%	+2.1%		
Sticky CPI	+2.6%	+2.6%	+2.2%		
Sticky core CPI	+2.6%	+2.6%	+2.1%		
Flexible CPI	-0.9%	+0.1%	+8.3%		\frown
Flexible core CPI	-0.2%	-2.1%	-2.8%		
	YOY change	3-mo	1-mo	12 / 3 / 1-mo	12-mo YOY history
ISM Manu prices paid	+15	-8	Unch		
ISM Services prices paid	+5	-2	+2		

Source: BLS, BEA, ISM, Cleveland Fed, Atlanta Fed, PriceStats TrendMacro calculations

For more information contact us: Donald Luskin: 312 273 6766 <u>don@trendmacro.com</u> Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

Data Insights: Federal Reserve Wednesday, November 2, 2016

Today's FOMC statement: how the language changed from prior meeting

Release Date: September 21 November 2, 2016

For release at 2:00 p.m. EDT

Information received since the Federal Open Market Committee met in JulySeptember indicates that the labor market has continued to strengthen and growth of economic activity has picked up from the modest pace seen in the first half of this year. Although the unemployment rate is little changed in recent months, job gains have been solid, on average. Household spending has been growing stronglyrising moderately but business fixed investment has remained soft. Inflation has continued to runincreased somewhat since earlier this year but is still below the Committee's 2 percent longer-run objective, partly reflecting earlier declines in energy prices and in prices of non-energy imports. Market-based measures of inflation compensation have moved up but remain low; most survey-based measures of longer-term inflation expectations are little changed, on balance, in recent months.

Consistent with its statutory mandate, the Committee seeks to foster maximum employment and price stability. The Committee expects that, with gradual adjustments in the stance of monetary policy, economic activity will expand at a moderate pace and labor market conditions will strengthen somewhat further. Inflation is expected to remain low in the near term, in part because of earlier declines in energy prices, but to rise to 2 percent over the medium term as the transitory effects of past declines in energy and import prices dissipate and the labor market strengthens further. Near-term risks to the economic outlook appear roughly balanced. The Committee continues to closely monitor inflation indicators and global economic and financial developments.

Against this backdrop, the Committee decided to maintain the target range for the federal funds rate at 1/4 to 1/2 percent. The Committee judges that the case for an increase in the federal funds rate has strengthenedcontinued to strengthen but decided, for the time being, to wait for some further evidence of continued progress toward its objectives. The stance of monetary policy remains accommodative, thereby supporting further improvement in labor market conditions and a return to 2 percent inflation.

In determining the timing and size of future adjustments to the target range for the federal funds rate, the Committee will assess realized and expected economic conditions relative to its objectives of maximum employment and 2 percent inflation. This assessment will take into account a wide range of information, including measures of labor market conditions, indicators of inflation pressures and inflation expectations, and readings on financial and international developments. In light of the current shortfall of inflation from 2 percent, the Committee will carefully monitor actual and expected

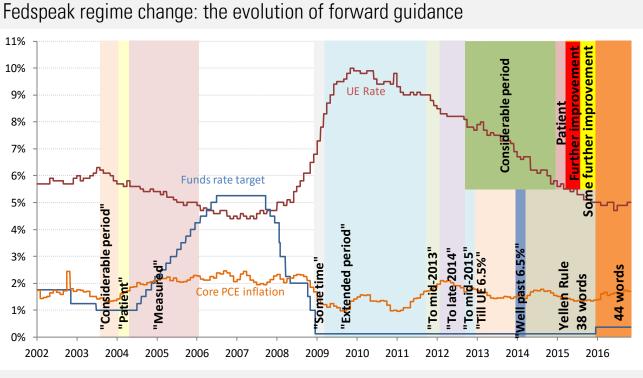
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progress toward its inflation goal. The Committee expects that economic conditions will evolve in a manner that will warrant only gradual increases in the federal funds rate; the federal funds rate is likely to remain, for some time, below levels that are expected to prevail in the longer run. However, the actual path of the federal funds rate will depend on the economic outlook as informed by incoming data.

The Committee is maintaining its existing policy of reinvesting principal payments from its holdings of agency debt and agency mortgage-backed securities in agency mortgage-backed securities and of rolling over maturing Treasury securities at auction, and it anticipates doing so until normalization of the level of the federal funds rate is well under way. This policy, by keeping the Committee's holdings of longer-term securities at sizable levels, should help maintain accommodative financial conditions.

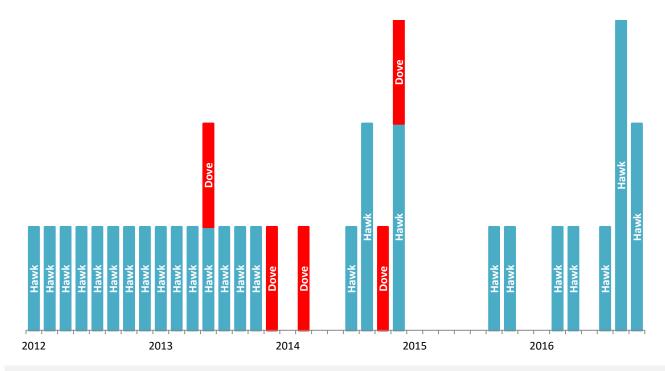
Voting for the FOMC monetary policy action were: Janet L. Yellen, Chair; William C. Dudley, Vice Chairman; Lael Brainard; James Bullard; Stanley Fischer; Jerome H. Powell; <u>Eric Rosengren</u>; and Daniel K. Tarullo. Voting against the action were: Esther L. George, and Loretta J. Mester, and Eric Rosengren, each of whom preferred at this meeting to raise the target range for the federal funds rate to 1/2 to 3/4 percent.

Source: FOMC, TrendMacro analysis

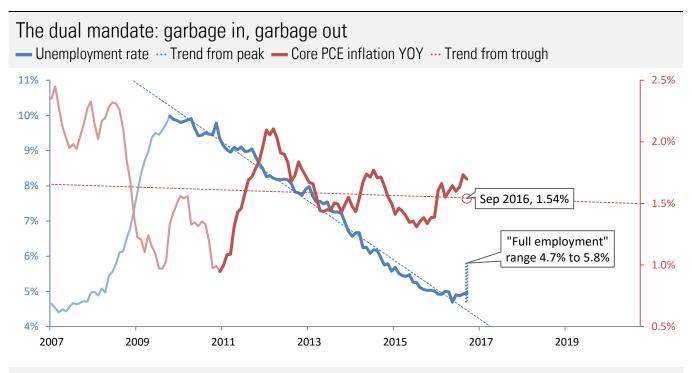


Source: FOMC, Federal Reserve, BLS, BEA, TrendMacro calculations

Other voices: number and direction of FOMC decision dissents

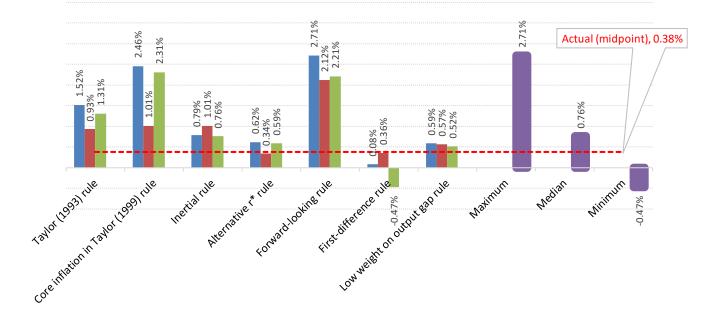


Source: FOMC, TrendMacro calculations

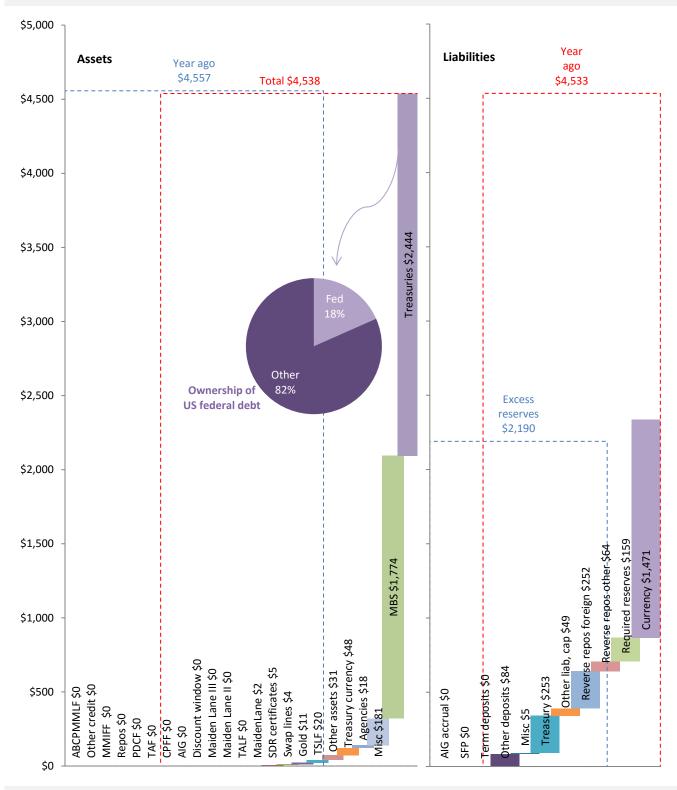


Source: BLS Current Population Survey, TrendMacro calculations



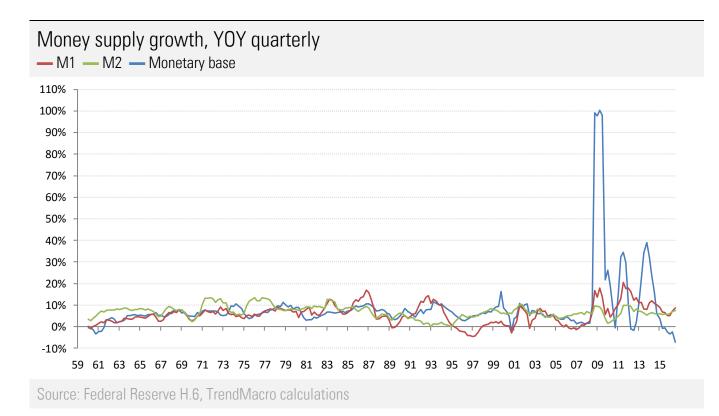


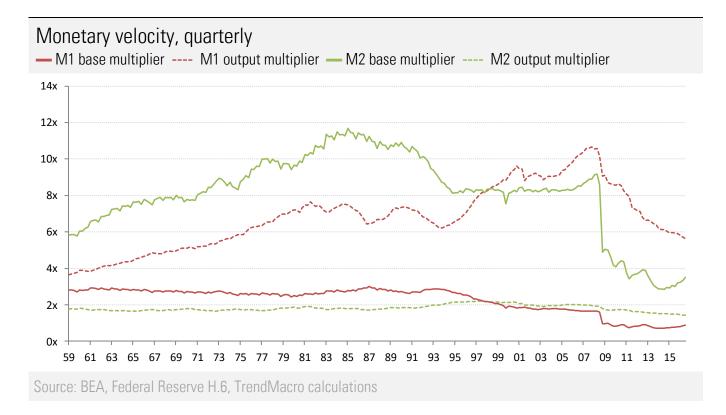
Source: Cleveland Fed, TrendMacro calculations



The Fed's assets, and how they are funded (USD billions) Assets do not perfectly match liabilities because we include unsettled MBS purchases and sales

Source: Federal Reserve H.4, US Treasury, TrendMacro calculations







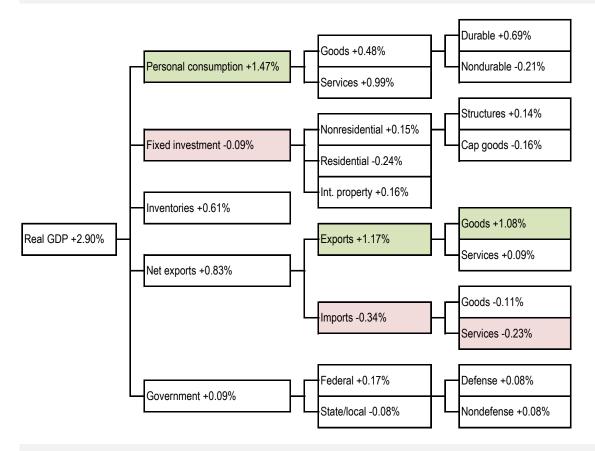
Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

Data Insights: GDP

Friday, October 28, 2016

Today's GDP data: what you need to know -- where did the growth come from?

Contributions to real, sequential quarter change, SAAR Biggest change per detail-level: positive negative

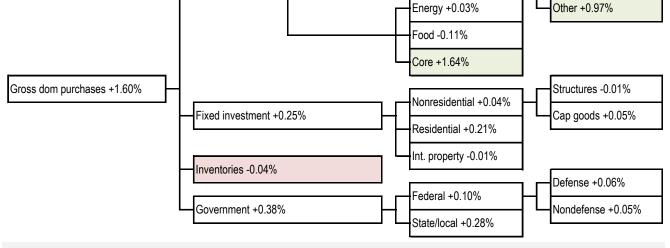


Source: Bureau of Economic Analysis

For more information contact us: Donald Luskin: 312 273 6766 don@trendmacro.com Thomas Demas: 704 552 3625 tdemas@trendmacro.com

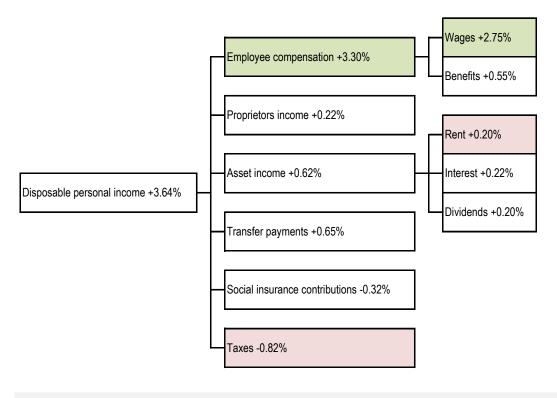
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Price index data: what you need to know -- where did the inflation come from? Contribution to sequential quarter change, SAAR Biggest change per detail-level: positive negative negative

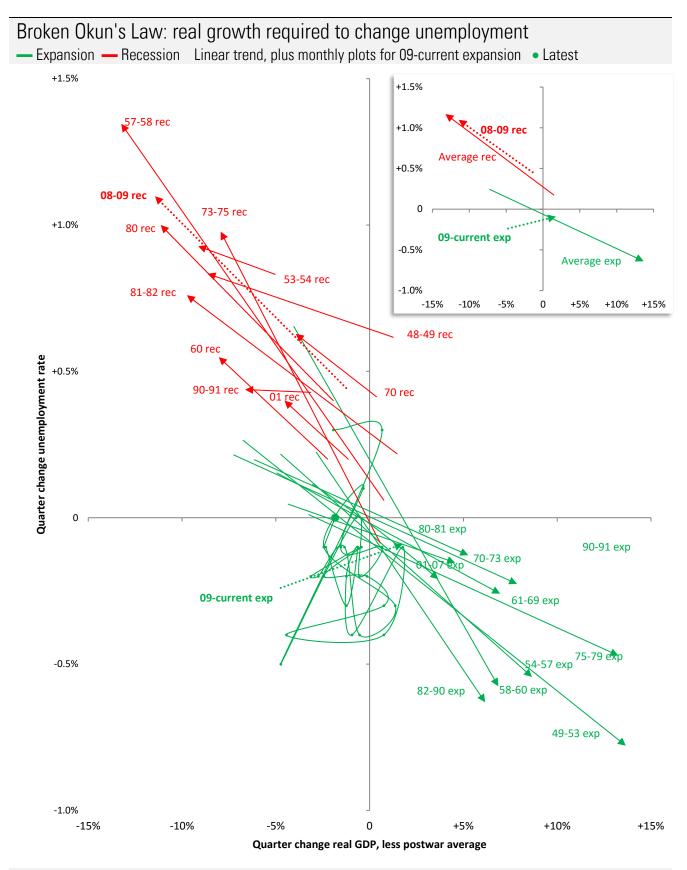


Source: Bureau of Economic Analysis, TrendMacro calculations

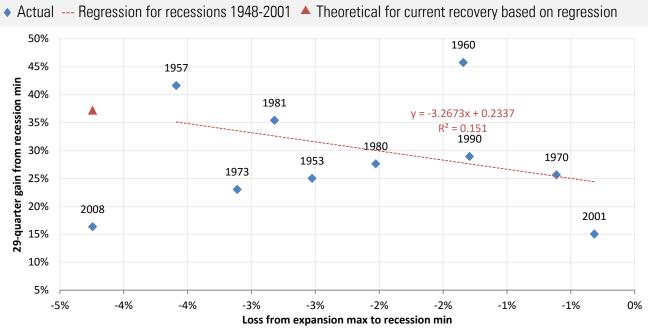
Personal income data: what you need to know -- where did the growth come from? Contribution to nominal, seq quarter change, SAAR Biggest change per detail-level: positive negative



Source: Bureau of Economic Analysis, TrendMacro calculations

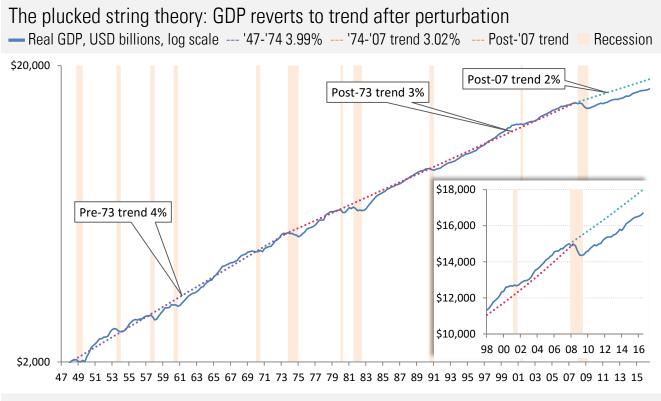


Source: Bureau of Economic Analysis, BLS Current Population Survey, TrendMacro calculations

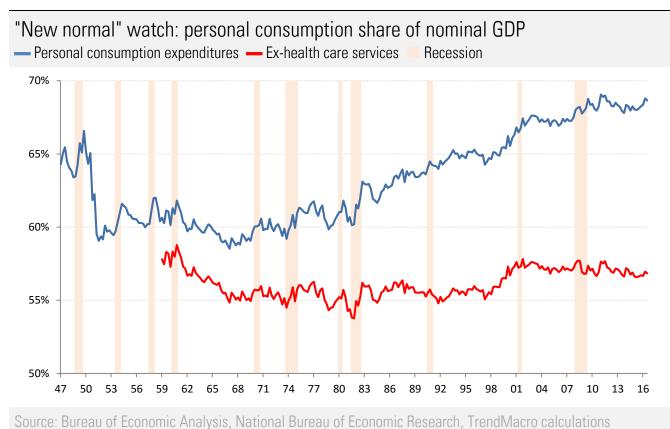


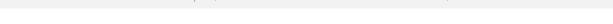
The Zarnowitz Law: severity of output loss in recession, versus vigor of recovery

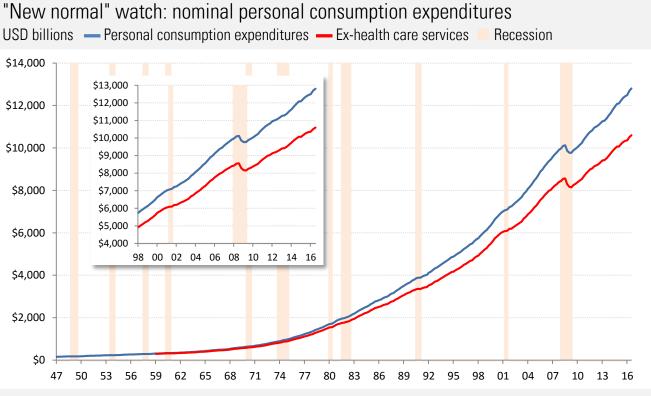
Source: Bureau of Economic Analysis, National Bureau of Economic Research, TrendMacro calculations



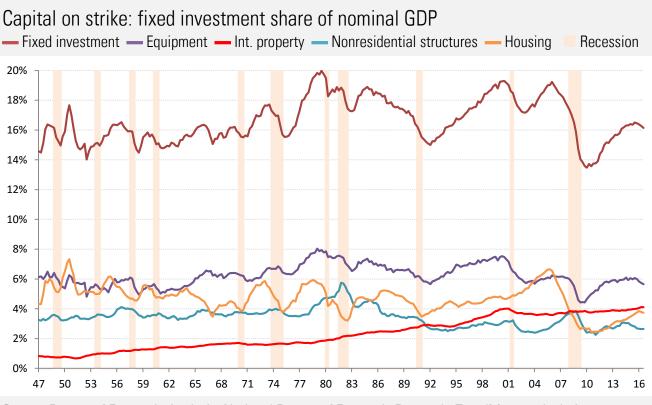
Source: Bureau of Economic Analysis, National Bureau of Economic Research, TrendMacro calculations



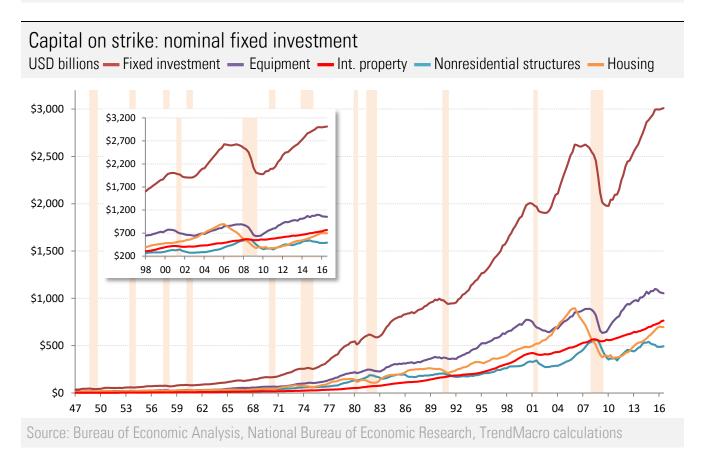




Source: Bureau of Economic Analysis, National Bureau of Economic Research, TrendMacro calculations



Source: Bureau of Economic Analysis, National Bureau of Economic Research, TrendMacro calculations





Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

Data Insights: Jobs

Friday, November 4, 2016

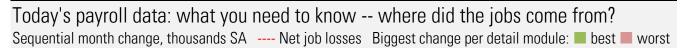
Today's jobs data: what you need to know								
Non-farm payrolls	Change Oct:	+161	Revision Sep:	+35	Revision Aug: +9	lhts lbs		
Private payrolls	Change Oct:	+142	Revision Sep:	+21	Revision Aug: -12	lhin lhi		
Employment	Change Oct:	-43						
Unemployment	Change Oct:	-152						
Long -term unemployment	Change Oct:	-45				ւութեւր		
Civilian labor force	Change Oct:	-195	4.72 million belo	ow trend	77.9% of leavers unemployed	allin ana		
Unemployment rate	Oct:	4.88%	Change Oct:	-0.09%				
Underemployment rate	Oct:	9.5%	Change Oct:	-0.2%				
Participation rate	Oct:	62.8%	Change Oct:	-0.1%				
UE adjusted for participation	Oct:	9.5%	Change Oct:	+0.06%				
Average weeks unemployed	Oct:	27.2	Change Oct:	-0.3				
% longterm unemployed	Oct:	25.2%	Change Oct:	+0.3%				
Aggregate hours worked index	Oct:	106.0	Change Oct:	+0.2%	Revision Sep: unch	~~~~		
Average hourly earnings	Oct:	+0.4%	Change Oct:	+0.1%	Revision Sep: +0.1%			
Aggregate weekly earnings	Oct:	131.3	Change Oct:	+0.5%	Revision Sep: +0.1			
Monthly job-finding probability	Oct:	32.1%	Change Oct:	+0.5%				
Monthly separation probability	Oct:	1.9%	Change Oct:	-0.1%				
% involuntary part-time	Oct:	3.9%	Change Oct:	-0.0%				
"Household" vs "Payroll" jobs	Change Oct:	-244				ang dar		

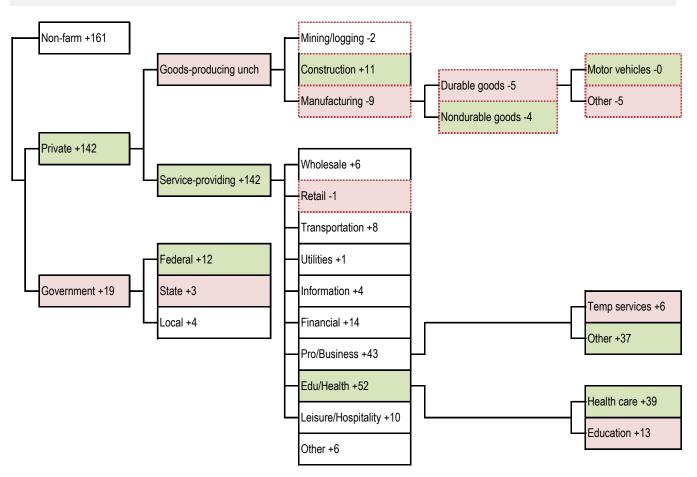
Source: Bureau of Labor Statistics, TrendMacro calculations

For more information contact us:

Donald Luskin: 312 273 6766 <u>don@trendmacro.com</u> Thomas Demas: 704 552 3625 <u>tdemas@trendmacro.com</u>

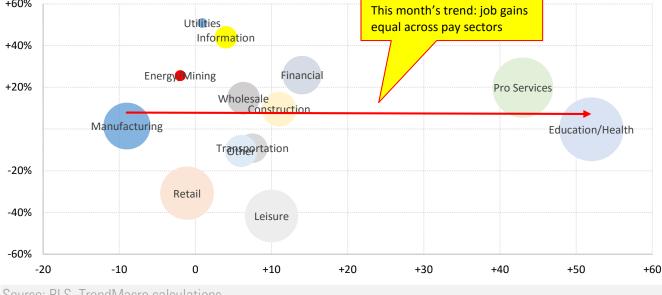
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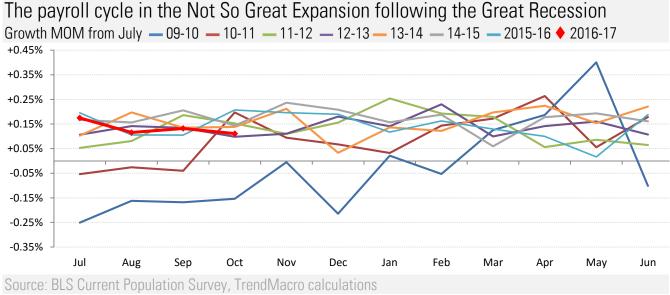


Where is the pay coming from?

Vertical: Hourly wages vs average Horizontal: Payrolls change this month Circle size: Share of all employment



Source: BLS, TrendMacro calculations



The ultimate jobless recovery is becoming jobful Unemployment: thousands Short-term = <27 weeks Long-term = >27 weeks Income inflation adjusted to today's USD 20,000 \$60,000 Total unemployed + dropouts \$59,000 18,000 \$58,000 16,000 \$57,000 14,000 Total unemployed \$56,000 12,000 Short-term \$55,000 unemployed 10,000 \$54,000 8,000 Median real \$53,000 household income 6,000 \$52,000 Long-term unepoployed \$51,000 2,000 \$50,000 Labor force drop-outs 0 \$49,000

3

2012

2013

2014

2015

2016

2008

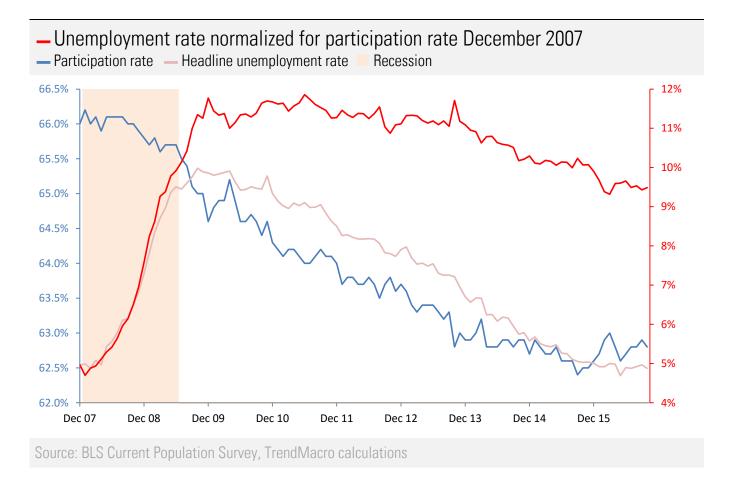
2007

2009

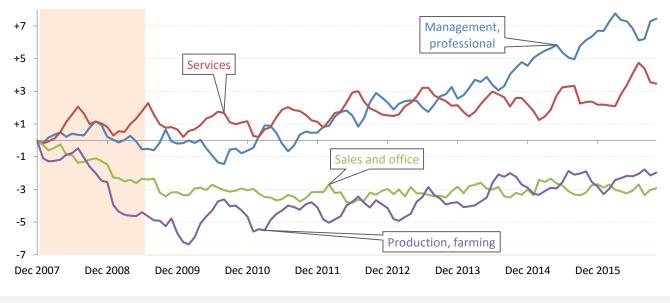
Source: BLS Current Population Survey, TrendMacro calculations

2010

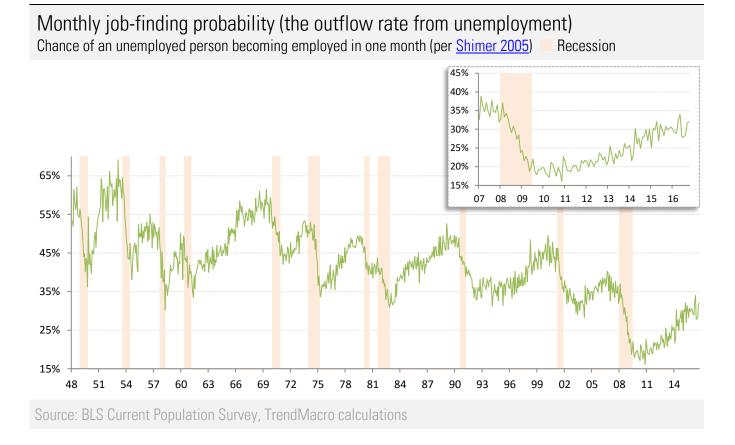
2011



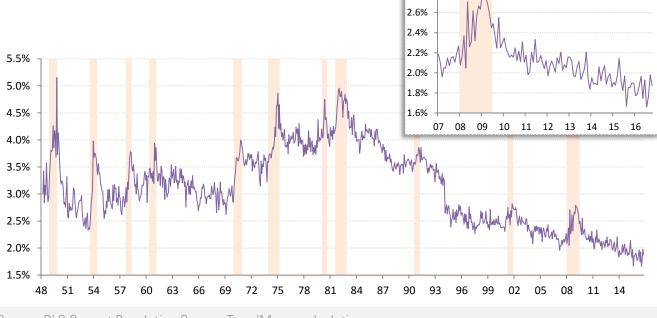
Winner and losers in the Not So Great Expansion following the Great Recession Change in total payrolls from prior business cycle peak, millions



Source: BLS, NBER, TrendMacro calculations

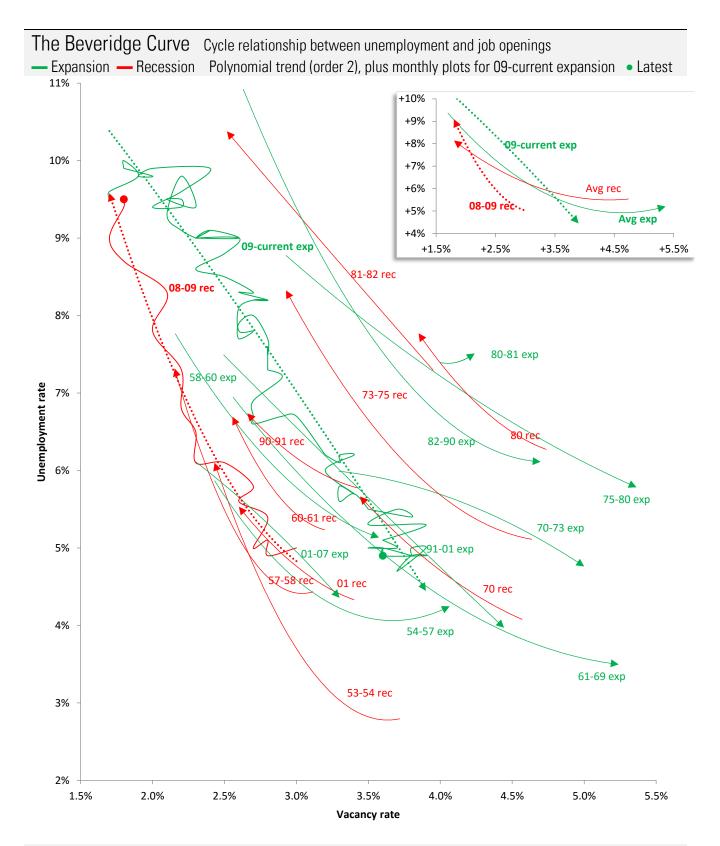


Monthly job-separation probability (the inflow rate to unemployment) Chance of an employed person becoming unemployed in one month (per <u>Shimer 2005</u>) Recession



2.8%

Source: BLS Current Population Survey, TrendMacro calculations

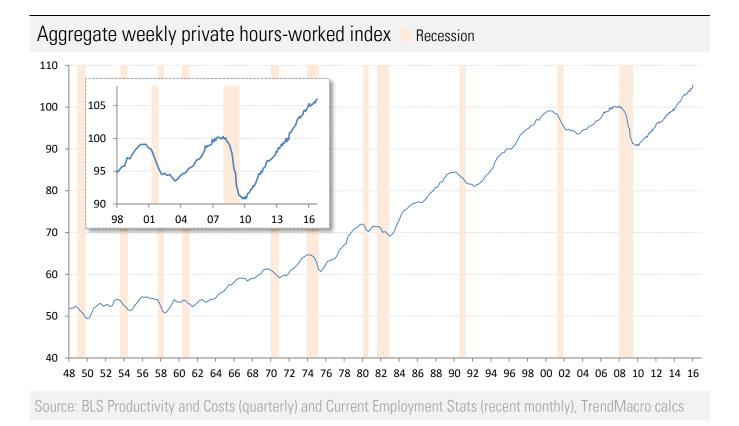


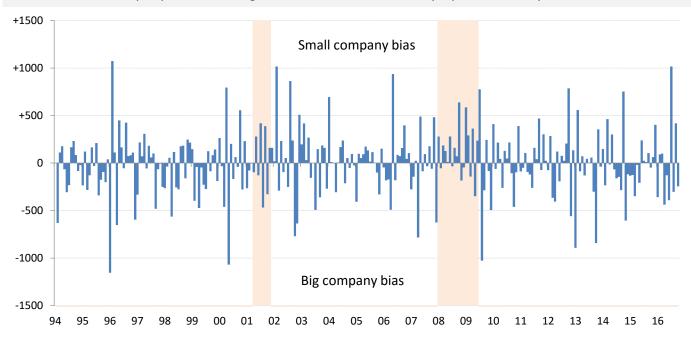
Source: BLS Current Population Survey & JOLTS. Pre-2000:Conference Board normalized per <u>Valletta (2005)</u>, TrendMacro calculations





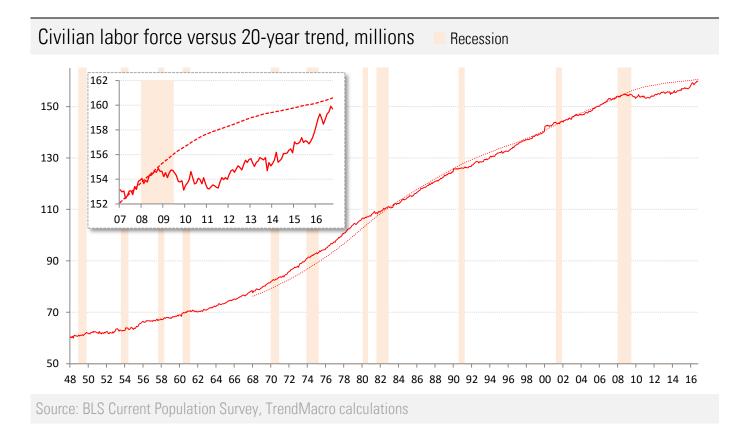
Source: BLS Current Population Survey, TrendMacro calculations





Difference in employment change: "household" minus "payroll" surveys **—** Recession

Source: BLS Current Population Survey and Current Employment Statistics, TrendMacro calculations



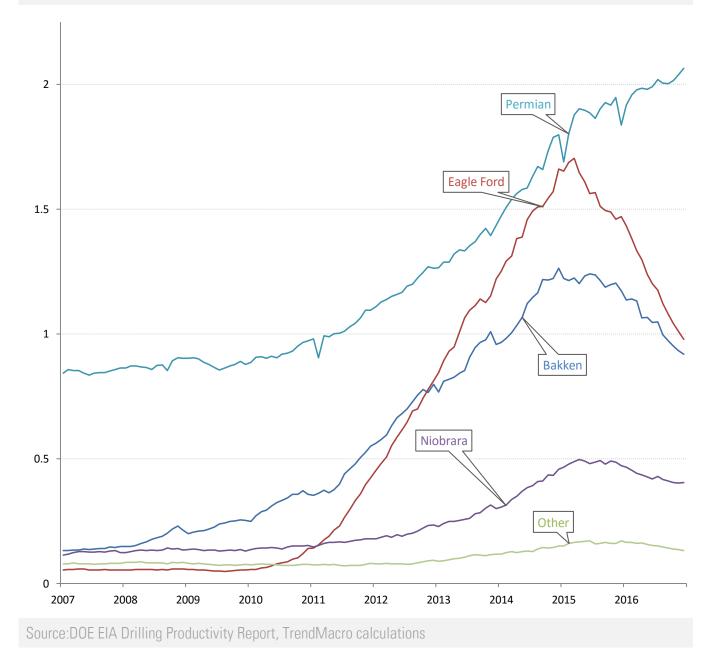


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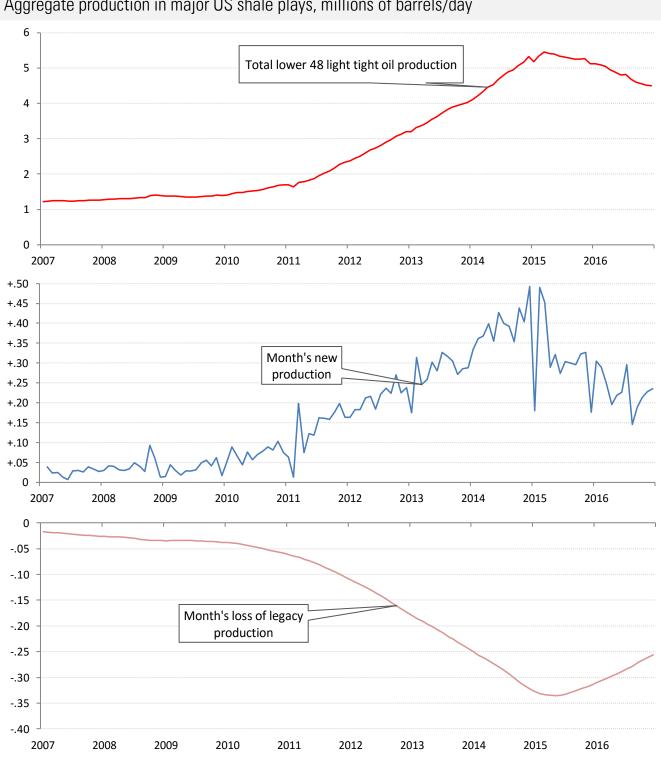
Data Insights: Oil

Tuesday, November 15, 2016

The light tight oil revolution -- and the rollover Production in major US shale plays, millions of barrels/day

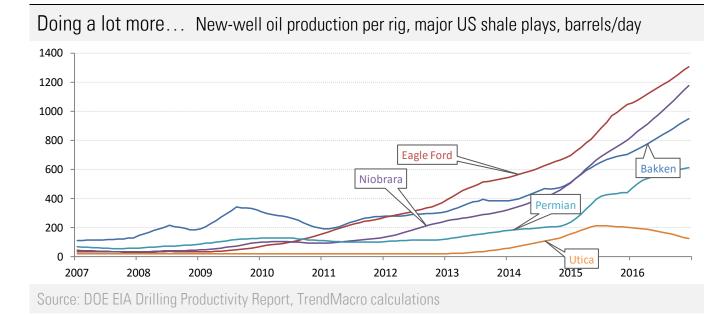


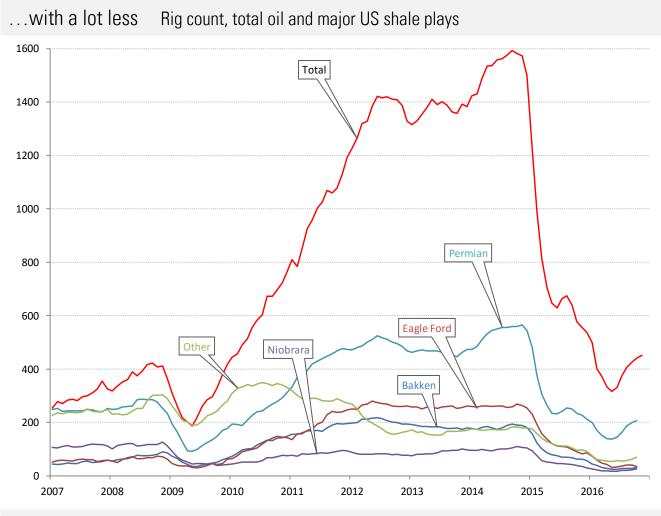
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Inside the rollover: depleting legacy, diminishing new production Aggregate production in major US shale plays, millions of barrels/day

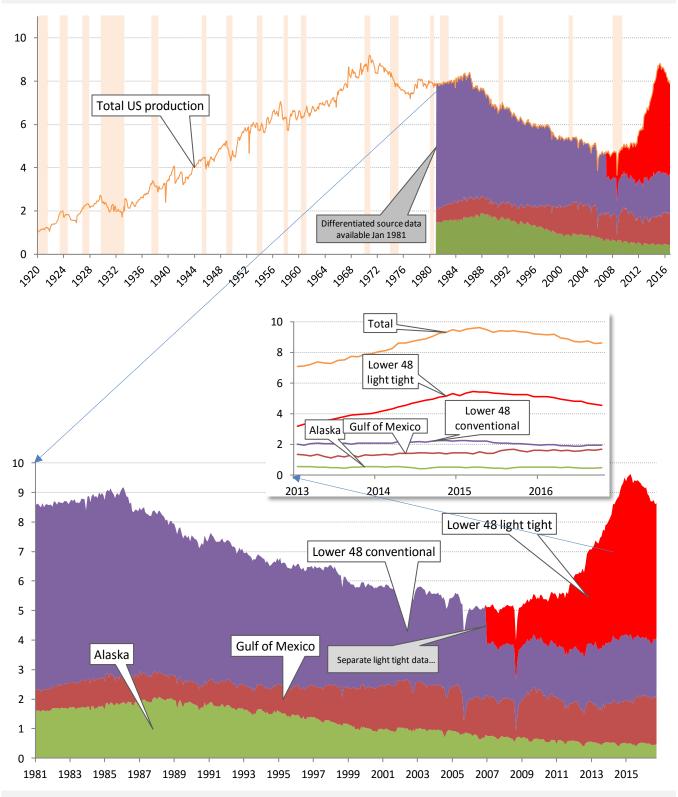
Source: DOE EIA Drilling Productivity Report, TrendMacro calculations



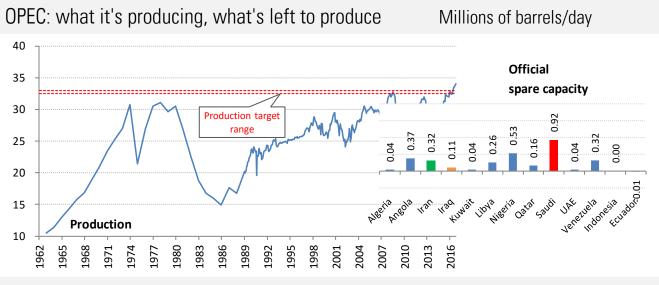


Source: DOE EIA Drilling Productivity Report, Baker Hughes, TrendMacro calculations

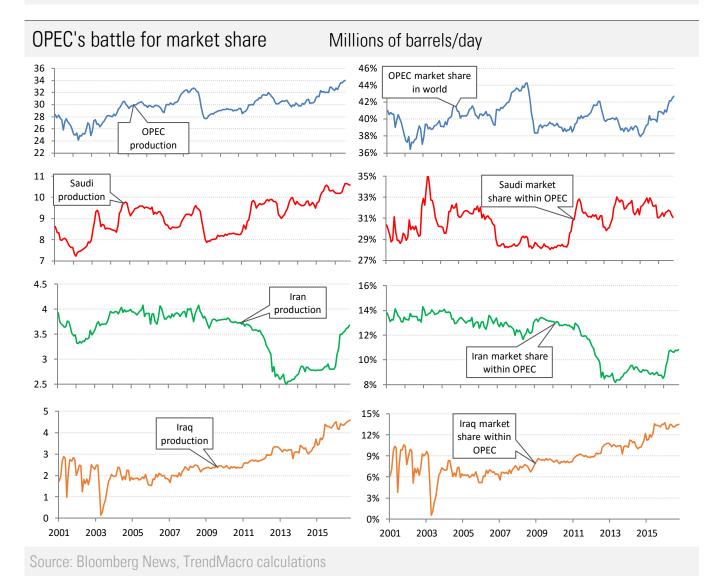
US crude oil production -- deep history, and the modern transformation of sources Millions of barrels/day Recession



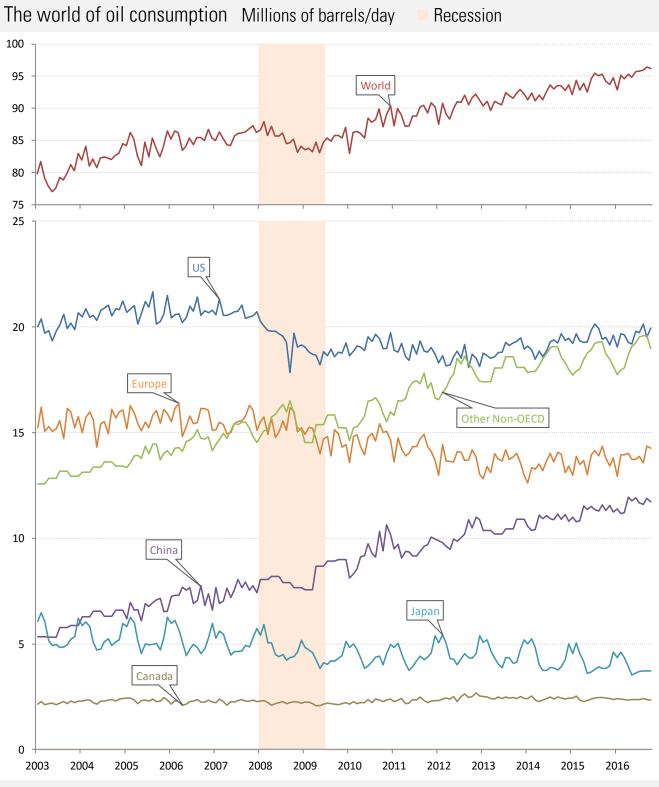
Source: DOE EIA Short Term Energy Outlook, Drilling Productivity Report, TrendMacro calculations



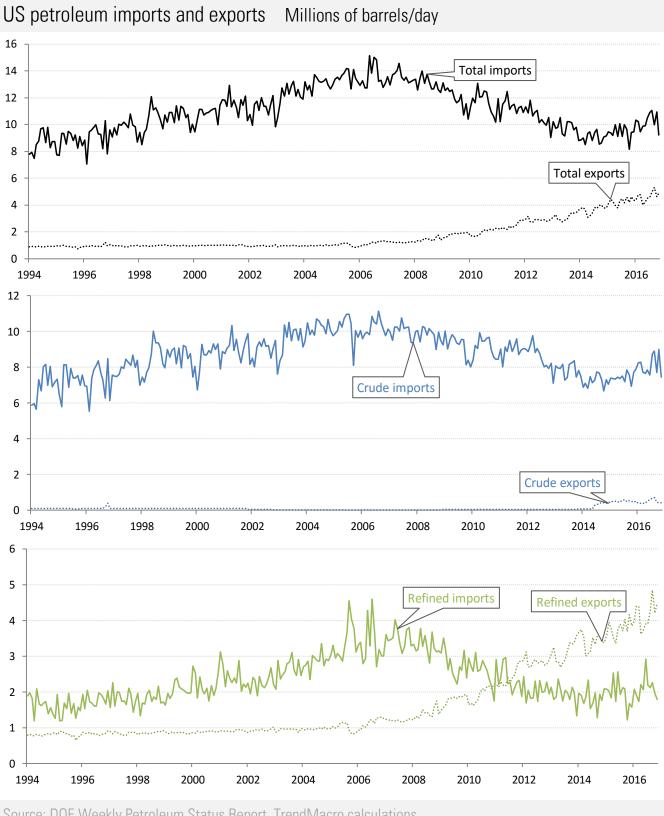
Source: Bloomberg News, TrendMacro calculations



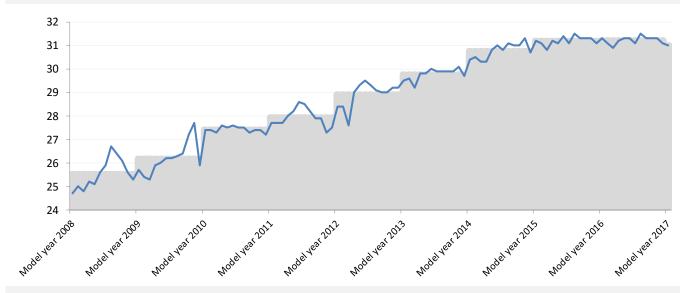
5



Source: DOE EIA Short Term Energy Outlook, TrendMacro calculations

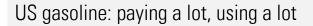


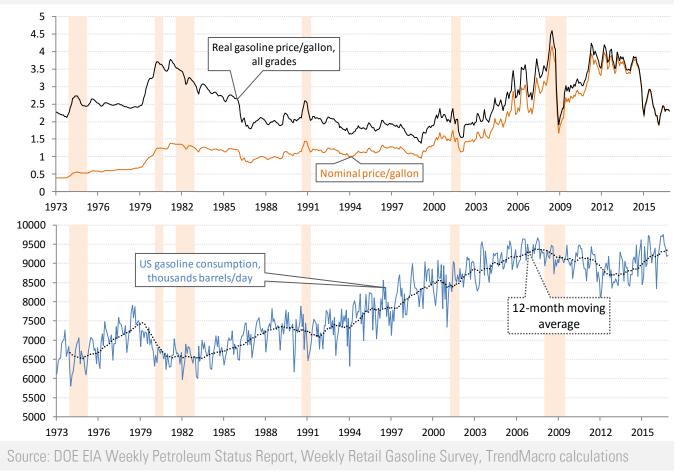
Source: DOE Weekly Petroleum Status Report, TrendMacro calculations

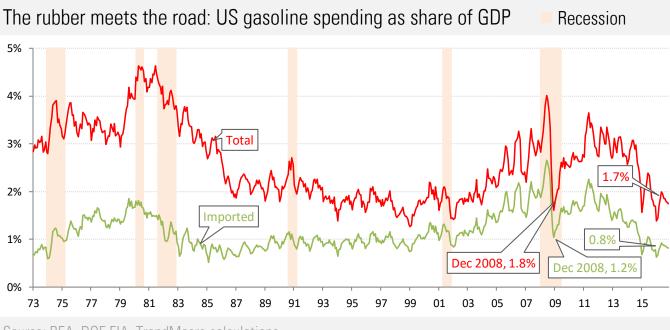


Guzzle that gas! New-car fleet fuel-efficiency by MPG

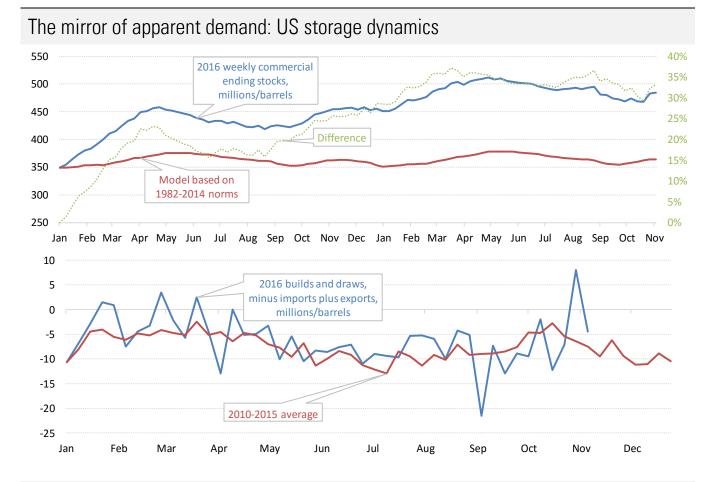
Source: University of Michigan, TrendMacro calculations







Source: BEA, DOE EIA, TrendMacro calculations



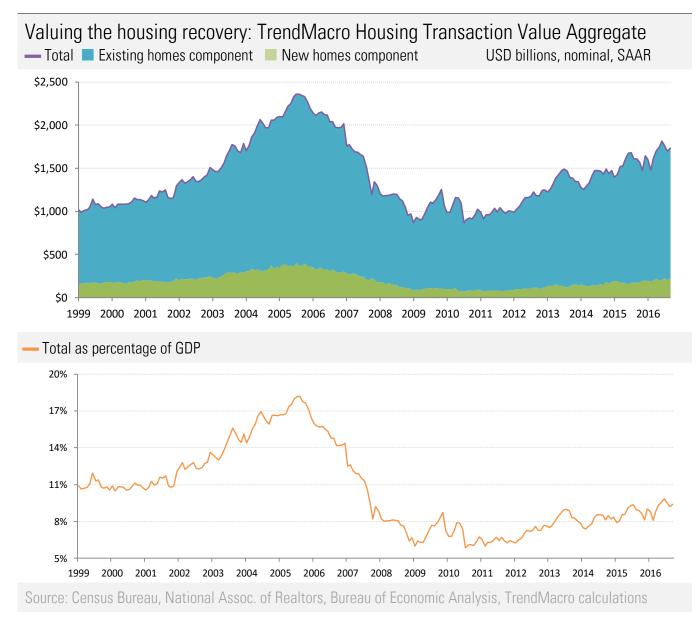
Source: DOE EIA Weekly Petroleum Status Report, TrendMacro calculations



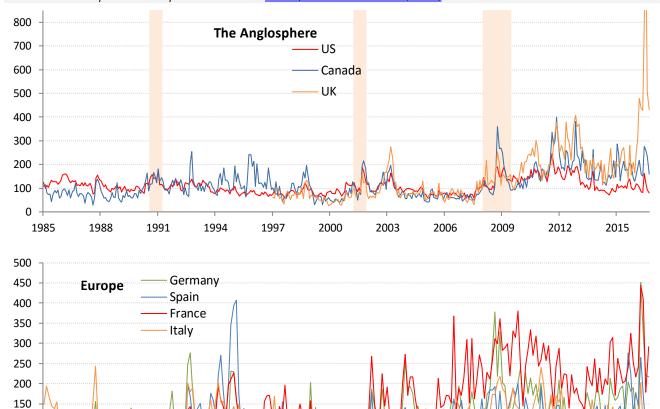
Data Insights: A Few of Our Favorite Things

Thursday, October 27, 2016

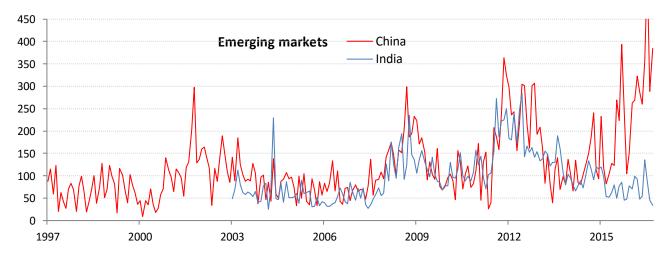
Mid-frequency growth indicators not already covered in other regular reports.



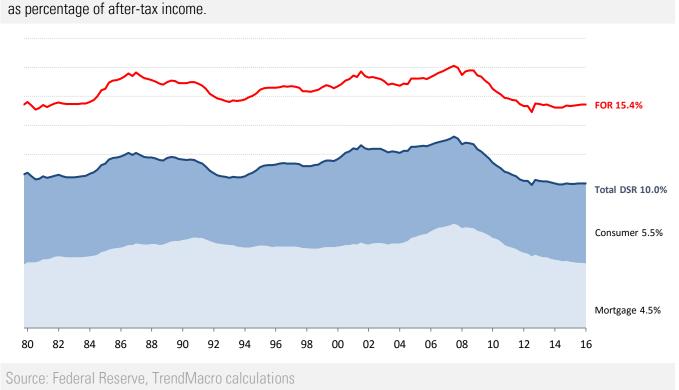
For more information contact us: Donald Luskin: 312 273 6766 <u>don@trendmacro.com</u> Thomas Demas: 704 552 3625 <u>tdemas@trendmacro.com</u>



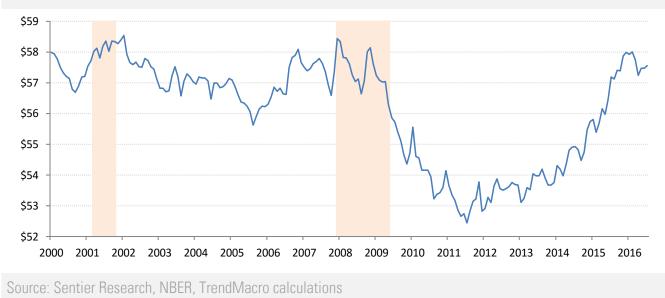
The drag on animal spirits: tracking the burden of economic policy uncertainty Economic Policy Uncertainty indices After Baker, Bloom and Davis (2015)



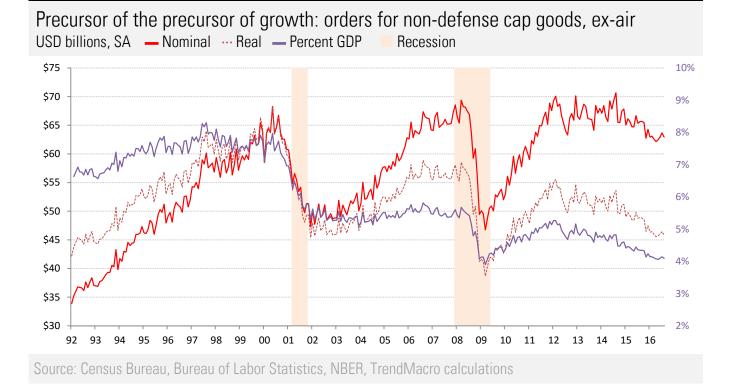
Source: Baker, Bloom and Davis, TrendMacro calculations

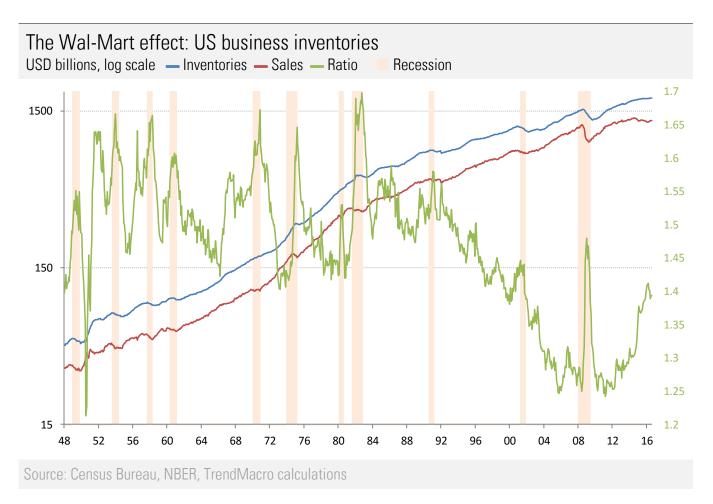


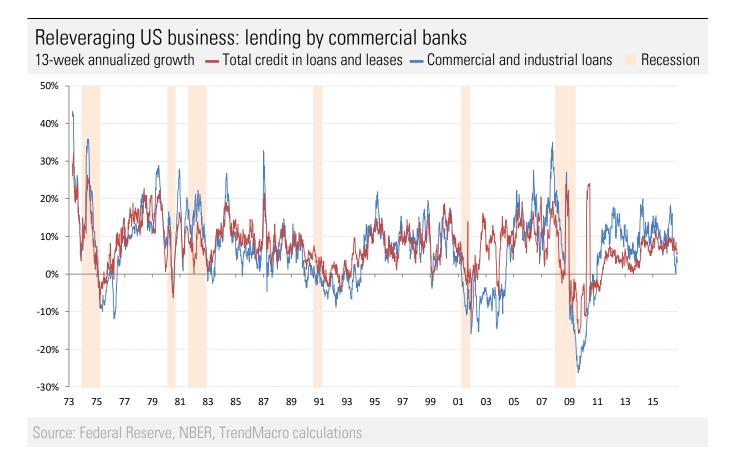
The human face of the output gap: Real median annual household income Recession



The deleveraging consumer: Financial obligation and debt service ratios Payments of mortgage and consumer debt, automobile leases, home rental and insurance, and property taxes







Risk-on for small growth companies: Merrill Lynch High-yield Master Index - Spread to Treasuries, basis points --- Average Recession



Source: Merrill Lynch, NBER, TrendMacro calclations



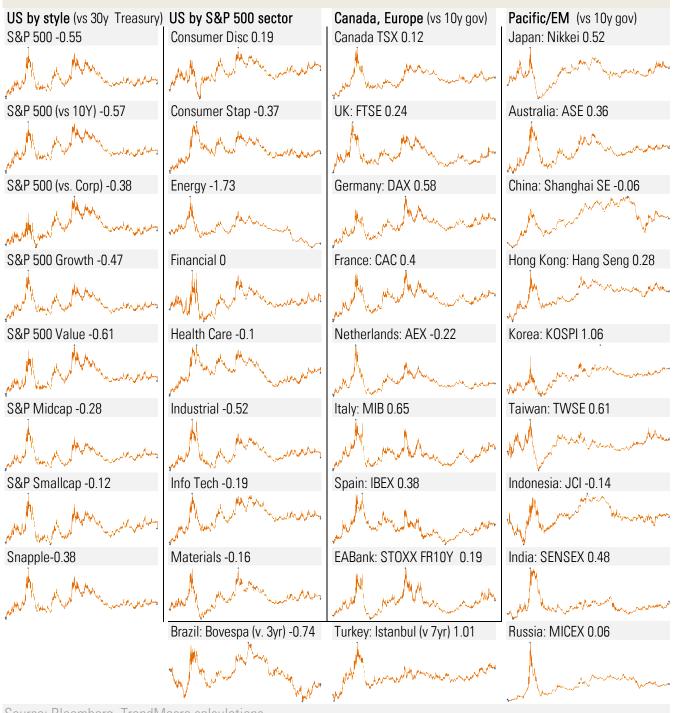
Data Insights: Global Equity Risk Premia

Monday, November 14, 2016

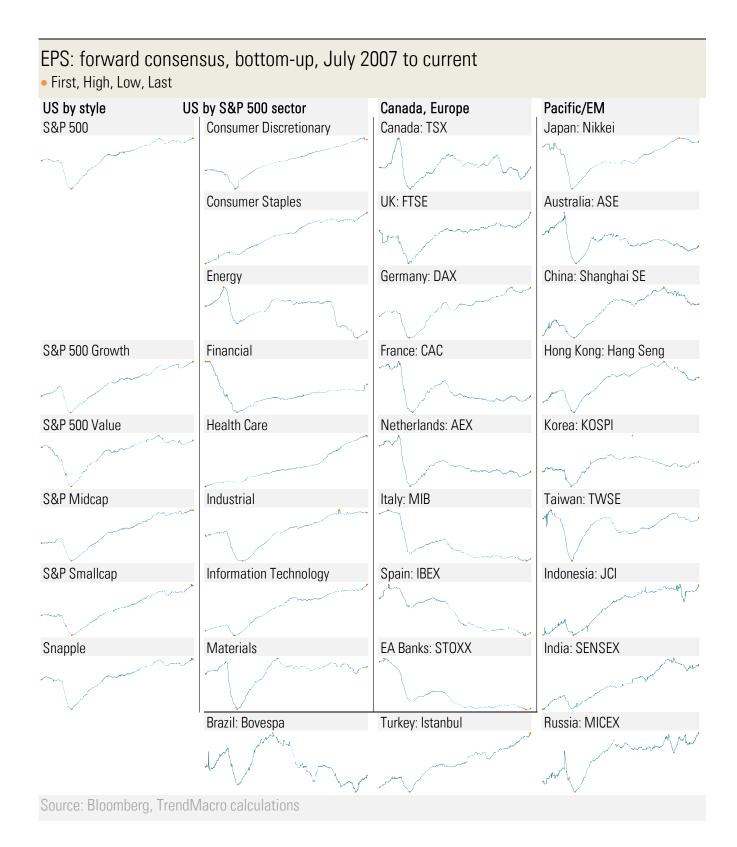
Glob	Global leader-board: by equity risk premium, value, and growth 📃 Best 📕 Worst									
Rank	Equity risk premium		Forward PE ratio		Fwd earnings upgra	de rate	Fwd sales upgrade rate			
	By SD from crisis era r				Trailing 90 days, AR		Trailing 90 days, AR			
	By country		By country		By country		By country			
1	Korea: KOSPI	+1.07	Russia: MICEX	6.3	Russia: MICEX	+41%	Netherlands: AEX	+70%		
2	Turkey: Istanbul	+1.01	Turkey: Istanbul	7.7	Indonesia:JCI	+30%	India: SENSEX	+21%		
3	Italy: MIB	+0.66	Korea: KOSPI	10.0	UK: FTSE	+29%	Indonesia:JCI	+18%		
4	Taiwan:TWSA	+0.61	HK: Hang Seng	11.5	Italy: MIB	+27%	Canada:TSX	+14%		
5	Germany: DAX	+0.58	Italy: MIB	12.1	Canada:TSX	+26%	Turkey: Istanbul	+14%		
6	Japan: Nikkei	+0.52	Germany: DAX	12.5	Taiwan:TWSA	+21%	Taiwan:TWSA	+13%		
7	India: SENSEX	+0.48	Brazil: Bovespa	12.8	Brazil: Bovespa	+19%	UK: FTSE	+9%		
8	France: CAC	+0.40	Spain: IBEX	12.9	Netherlands: AEX	+18%	Australia: ASE	+8%		
9	Spain: IBEX	+0.38	Taiwan:TWSA	13.2	Spain: IBEX	+17%	US: S&P 500	+7%		
10	Australia: ASE	+0.36	China: Shanghai SE	13.5	India: SENSEX	+13%	France: CAC	+5%		
11	HK: Hang Seng	+0.29	France: CAC	13.6	France: CAC	+13%	Japan: Nikkei	+0%		
12	UK: FTSE	+0.24	UK: FTSE	14.4	Korea: KOSPI	+13%	HK: Hang Seng	-1%		
13	Canada:TSX	+0.12	Indonesia:JCI	14.7	Australia: ASE	+13%	Korea: KOSPI	-1%		
14	Russia: MICEX	+0.06	Netherlands: AEX	15.0	Turkey: Istanbul	+12%	Spain: IBEX	-3%		
15	China: Shanghai SE	-0.07	India: SENSEX	15.8	HK: Hang Seng	+10%	Italy: MIB	-4%		
16	Indonesia:JCI	-0.15	Australia: ASE	15.9	US: S&P 500	+8%	Brazil: Bovespa	-4%		
17	Netherlands: AEX	-0.23	Canada:TSX	16.2	Germany: DAX	+8%	Russia: MICEX	-5%		
18	US: S&P 500	-0.56	Japan: Nikkei	16.6	China: Shanghai SE	+3%	China: Shanghai SE	-6%		
19	Brazil: Bovespa	-0.75	US: S&P 500	16.7	Japan: Nikkei	+2%	Germany: DAX	-19%		
	US, by style		US, by style		US, by style		US, by style			
1	S&P Smallcap	-0.13	S&P 500 Value	15.6	S&P Smallcap	+12%	S&P Smallcap	+32%		
2	S&P Midcap	-0.28	S&P 500	16.7	S&P 500 Value	+9%	S&P 500 Value	+8%		
2 3	S&P 500 Growth	-0.48	S&P 500 Growth	18.0	S&P 500 Growth	+9%	S&P 500 Growth	+8%		
4	S&P 500	-0.56	S&P Midcap	19.0	S&P 500	+8%	S&P 500	+7%		
5	S&P 500 Value	-0.62	S&P Smallcap	19.6	S&P Midcap	+3%	S&P Midcap	-10%		
	US, by sector		US, by sector		US, by sector		US, by sector			
1	Telecom	+1.32	Telecom	12.3	Energy	+144%	Financial	+94%		
2	Consumer Disc	+0.19	Financial	13.4	Financial	+89%	Energy	+30%		
3	Financial	+0.01	Health Care	14.8	Info Tech	+19%	Industrial	+20%		
4	Health Care	-0.10	Utilities	16.2	Consumer Stap	+8%	Info Tech	+7%		
5	Materials	-0.17	Info Tech	16.3	Materials	+6%	Consumer Stap	+5%		
6	Info Tech	-0.20	Materials	16.7	Health Care	+3%	Consumer Disc	+1%		
7	Utilities	-0.26	Industrial	17.5	Utilities	+0%	Health Care	-0%		
8	Consumer Stap	-0.38	Consumer Disc	17.5	Telecom	-0%	Telecom	-1%		
9	Industrial	-0.52	Consumer Stap	18.8	Industrial	-2%	Utilities	-1%		
10	Energy	-1.74	Energy	33.6	Consumer Disc	-8%	Materials	-19%		
Source	Bloomberg Trend	Macro	algulations							

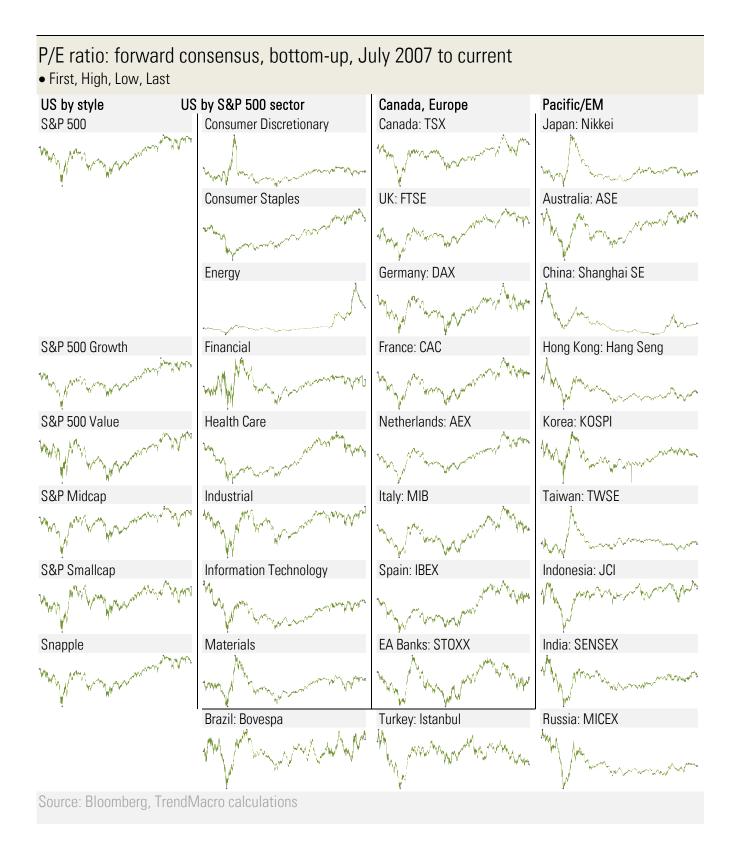
Source: Bloomberg, TrendMacro calculations

Equity risk premium: forward earnings yield minus bond yield, July 2007 to current Standard deviations from crisis-era mean • First, High, Low, Last



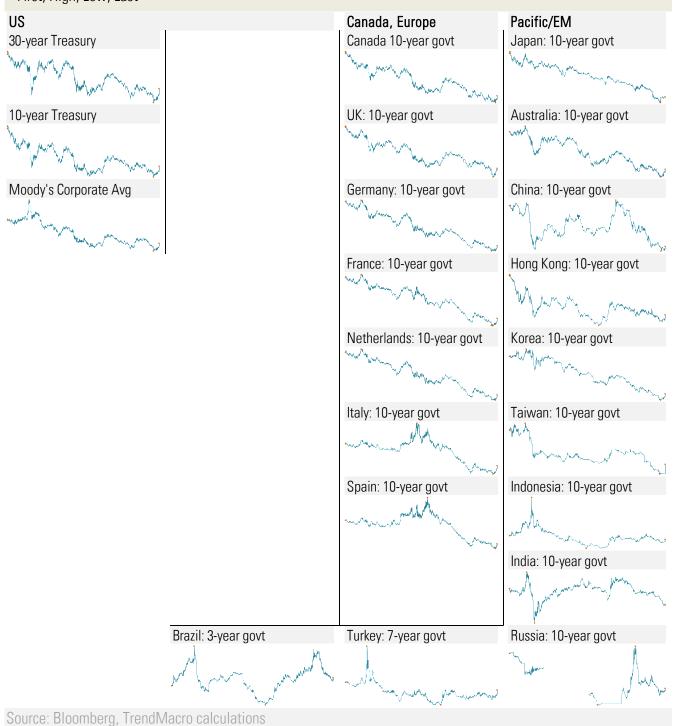
Source: Bloomberg, TrendMacro calculations

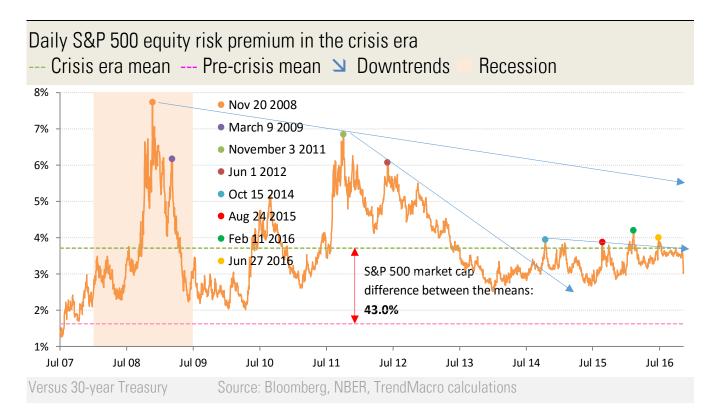


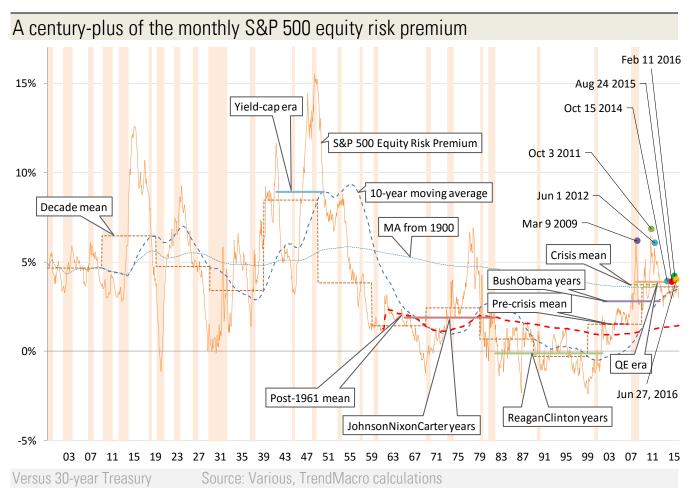


Benchmark bond yields, July 2007 to current

• First, High, Low, Last









Data Insights: Global PMI

Thursday, November 3, 2016

<i>Manu</i> Oct Pre	v 13-m	onth history	Serv	Oct	Prev	13-month history	Сотр	Oct	Prev 13-month history	
Index 52.0 51.0) ~~	\sim	Index	53.2	51.6		Index	53.3	51.7	
Source: JPMorga	n, Trend	Macro calcu	llations			,				
US data: at a	glanc	е								
Manufacturing	Oct	Prev	13-moi	nth hist	tory	Services	Oct	Prev	v 13-month history	
Index	51.9	51.5			\bigvee	Index	54.8	57.1		
Prices paid	54.5	53.0		$\overline{}$	\smile	Prices paid	56.6	54.0		
Employment	52.9	49.7 /	\searrow			Employment	53.1	57.2		
Inventories	47.5	49.5		\checkmark	\sim	Inventories	52.0	51.5		
Orders	52.1	55.1	_]		\mathbb{V}	Orders	57.7	60.0		
Source: Institute	of Suppl	y Managem	ent, Tre	endMa	cro cal	culations				
Japan data: a	at a gla	ance								
Manufacturing	Oct	Prev	13-mo	nth his	tory	Services	Oct	Prev	/ 13-month history	
Index	51.4	50.4			/	Index	50.5	48.2		
Source: Markit/N	Source: Markit/Nomura, TrendMacro calculations									

Thomas Demas: 704 552 3625 tdemas@trendmacro.com

Europe data:	at a g	lance							
Manufacturing	Last	Prev	13-month history	Services	Last	Prev	13-month history		
Eurozone Oct	53.5	52.6		Eurozone Oct	52.8	52.2			
UK Oct	54.3	55.5	$\overline{\mathbf{A}}$	UK Oct	54.5	52.6			
Germany Oct	55.0	54.3	\sim	Germany Oct	54.2	50.9			
France Oct	51.8	49.7		France Oct	51.4	53.3			
Italy Oct	50.9	51.0		Italy Oct	51.0	50.7			
Spain Oct	53.3	52.3		Spain Oct	54.6	54.7			
Ireland Oct	52.1	51.3		Ireland Oct	54.6	56.2			
Netherlands Oct	55.7	53.4							
Austria Oct	53.9	53.5							
Greece Oct	48.6	49.2							
Czech Rep Oct	53.3	52.0							
Source: Markit, Various TrendMacro calculations									

Eastern Europe data: at a glance										
Manufacturing	Last	Prev	13-mo history	Services	Last	Prev	13-mo history			
Russia Oct	52.4	51.1		Russia Oct	52.7	53.0				
Poland Oct	50.2	49.8								
Turkey Oct	52.2	48.3								
0 84 15 7	- 10.4		1							

Source: Markit, TrendMacro calculations

China data: a	at a gla	ance						
Manufacturing	Oct	Prev	13-month history	Services	Oct	Prev	13-month history	
China	51.2	50.4		China	54.0	53.7		
Prices paid	62.6	57.5						
Employment	48.8	48.6		Employment	50.0	49.7		
Orders	52.8	50.9		Orders	50.9	51.4		
Source: China Ecderation of Logistics and Durchasing, Trand Magra calculations								

Source: China Federation of Logistics and Purchasing, TrendMacro calculations

Asia data: at	Asia data: at a glance									
Manufacturing	Last	Prev	13-mo history	Services	Last	Prev	13-mo history			
Hong Kong Oct	48.2	49.3	$\overline{}$							
Taiwan Oct	52.7	52.2								
S. Korea Oct	48.0	47.6								
Vietnam Oct	51.7	52.9	$\overline{\mathbf{x}}$							
India Oct	54.4	52.1	$\overline{ \mathbf{x}} = \mathbf{x} = x$	India Oct	54.5	52				
Indonesia Oct	48.7	50.9								
Source: Markit, TrendMacro calculations										
Americas data: at a glance										

Services

Brazil Oct

Last

43.9

Prev

45.3

13-mo history

Canada Oct	51.1	50.3	\sim
Source: Markit	TrendMa	cro calc	ulations

Last

46.3

51.8

Prev

46.0

51.9

13-mo history

Manufacturing

Brazil Oct

Mexico Oct

Middle East/Africa data: at a glance								
Manufacturing	Last	Prev	13-mo history					
Saudi Arabia Oct	53.2	55.3						
UA Emirates Oct	53.3	54.1						
Egypt Oct	42.0	46.3						
S. Africa Oct	50.5	50.7						
Source: Markit, TrendMacro calculations								

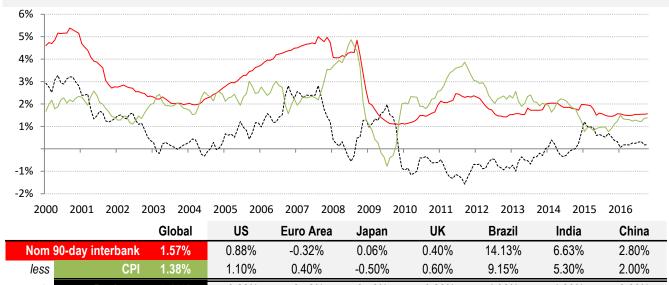


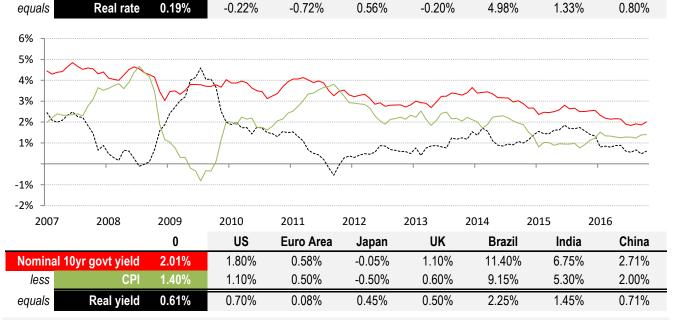
Data Insights: Global Real Rates and Long-term Yields

Tuesday, October 17, 2016

The world-wide average inflation-adjusted cost of debt

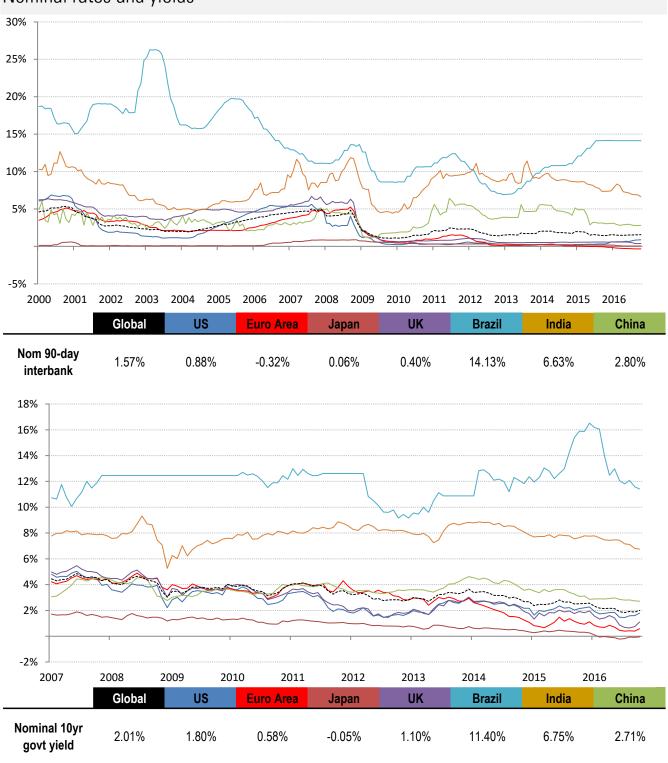
US, Euro Area, Japan, UK, Brazil, India and China rates and yields weighted by nominal GDP at official USD *(For 10-year, Euro Area is capital-key weighted average of DE, FR, IT, ES, ND, BE)*



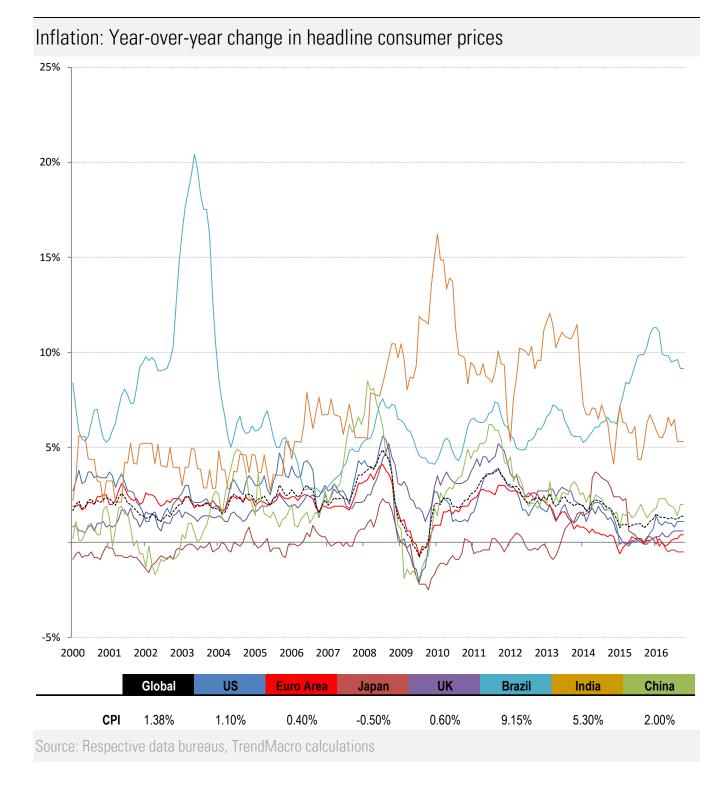


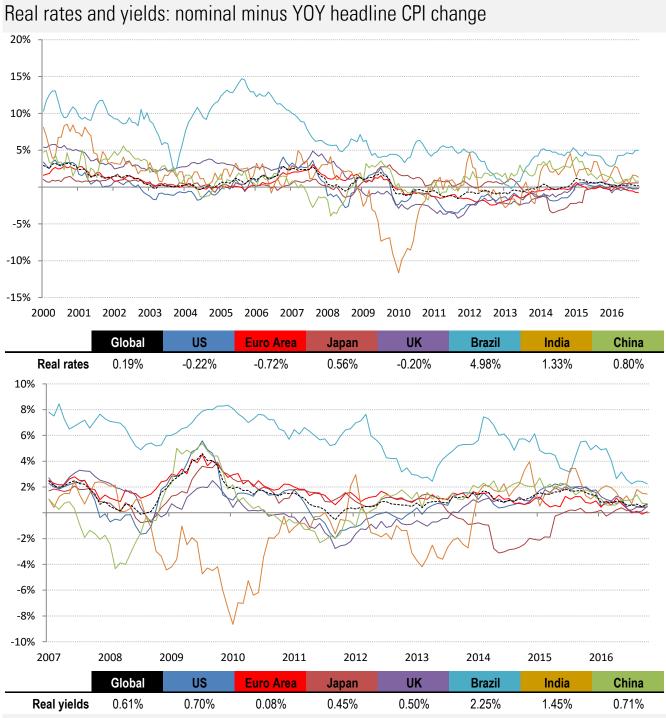
Source: Respective data bureaus, TrendMacro calculations

Nominal rates and yields



Source: Bloomberg, TrendMacro calculations



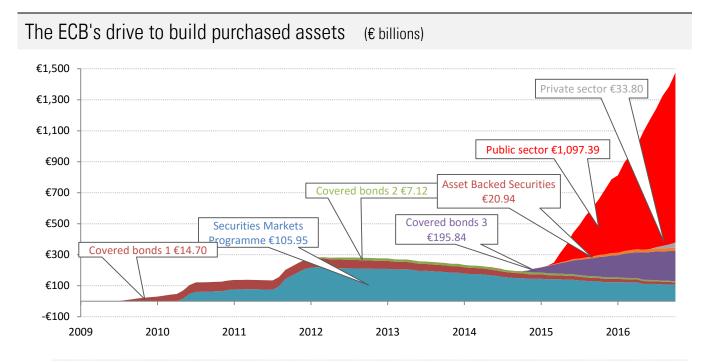


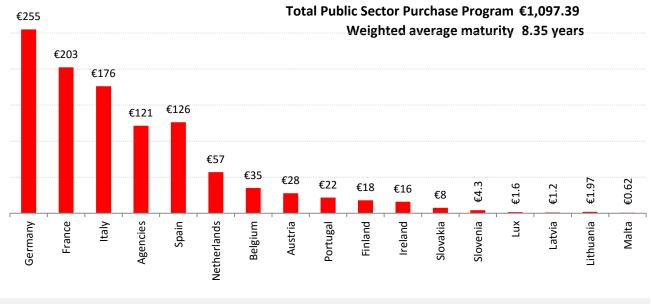
Source: Bloomberg, respective data bureaus, TrendMacro calculations



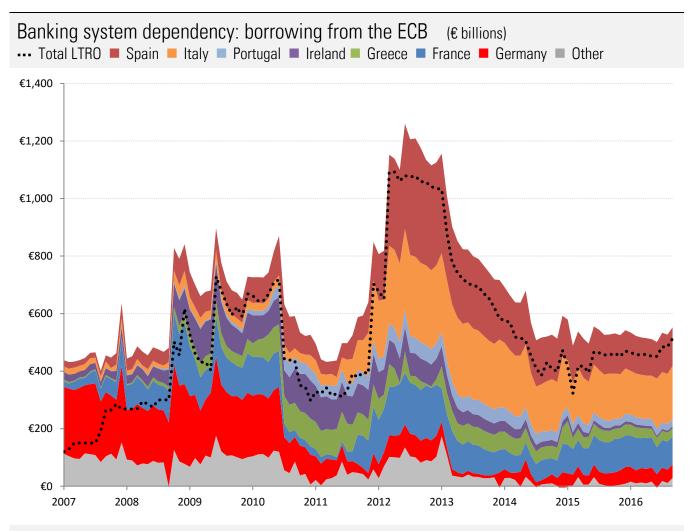
Data Insights: Euro Area Recovery Monitor

Thursday, October 20, 2016

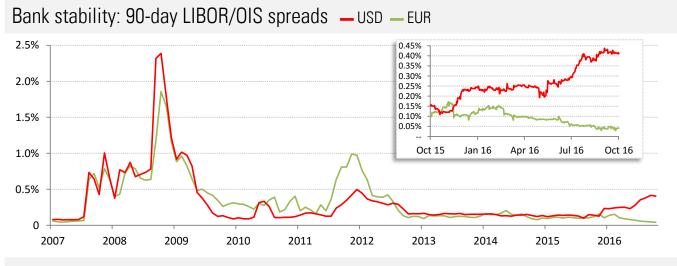




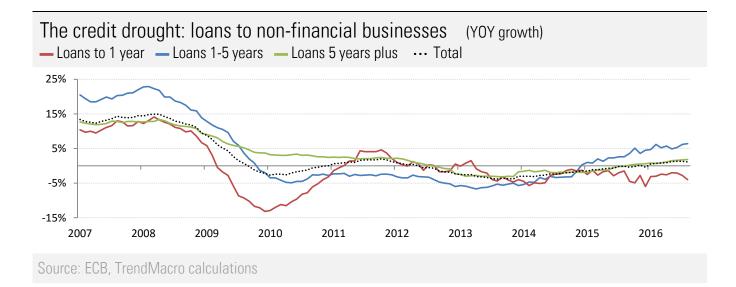
Source: ECB, TrendMacro calculations

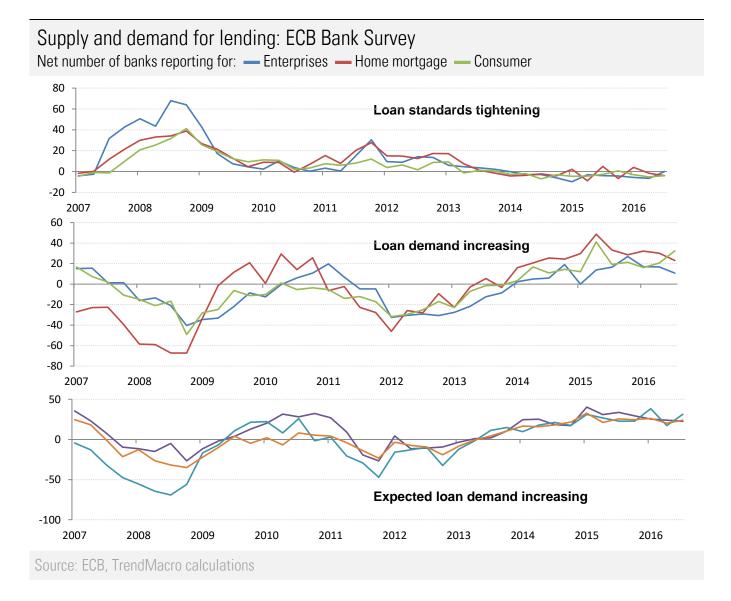


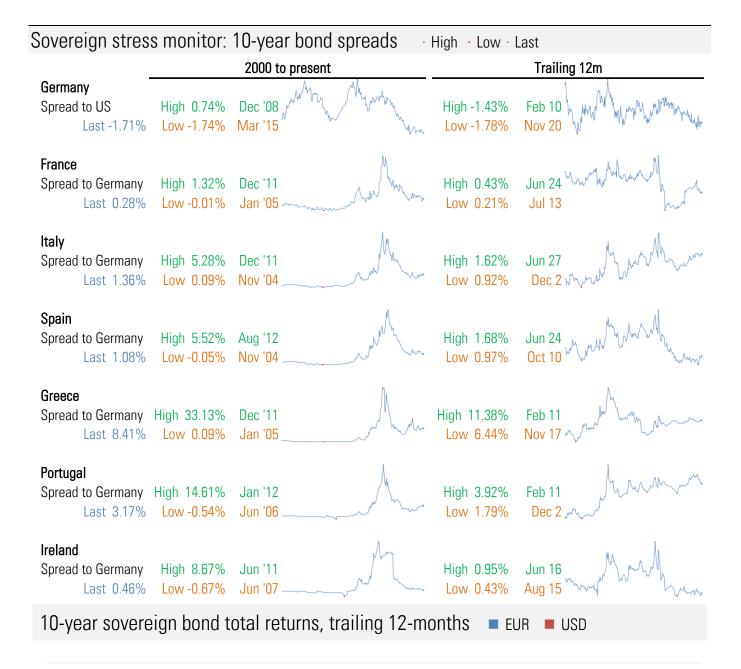
Source: ECB, National central banks, TrendMacro calculations



Source: Bloomberg, TrendMacro calculations



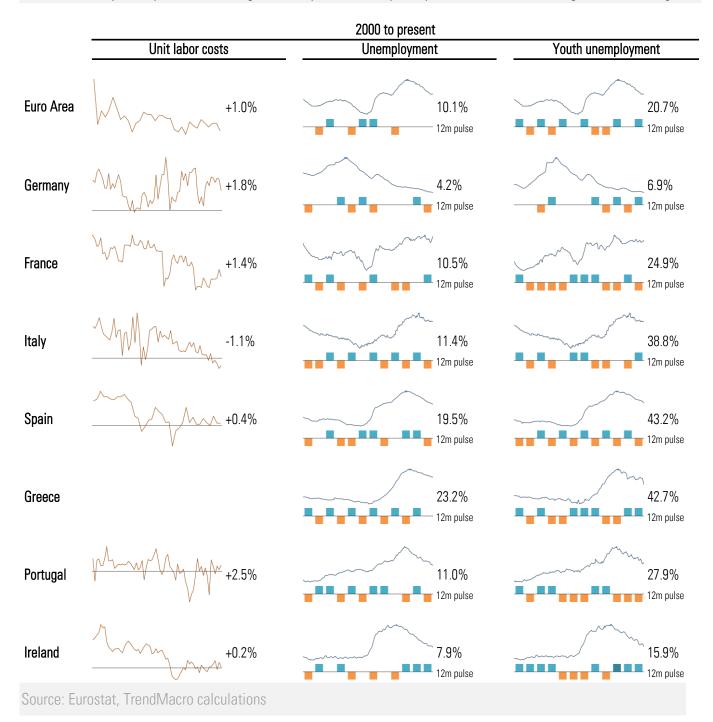




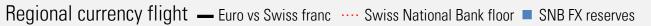


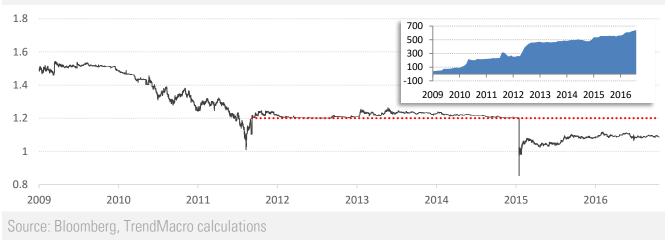
Labor market in intensive care

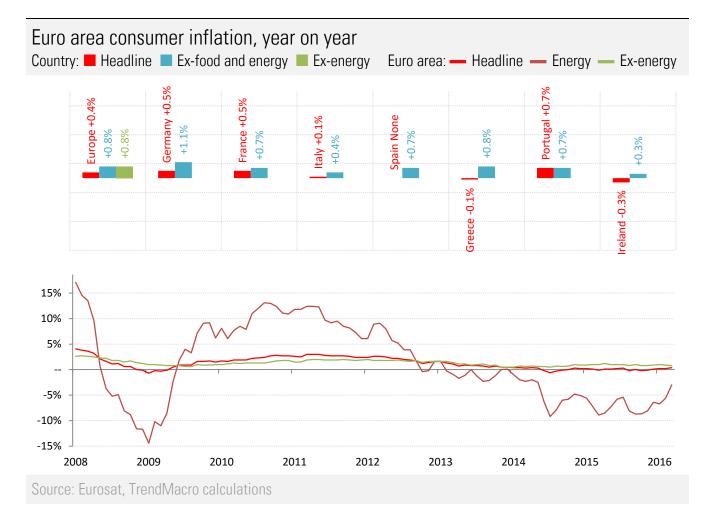
ULC: Nominal, quarterly YOY UE: · High 12m pulse: monthly improvement or involvement or involvement of change



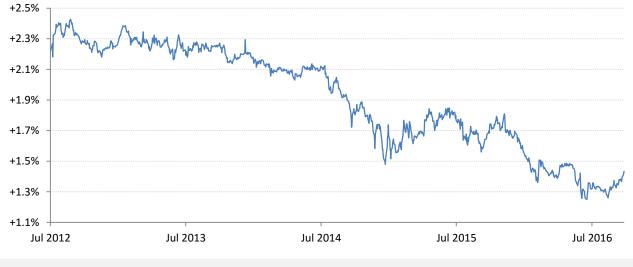
Purchasing Manager Indices									
Manufacturing	Last	Prev	13-month history	Services	Last	Prev	13-month history		
Eurozone Sep	52.6	51.7		Eurozone Sep	52.2	52.8			
UK Sep	55.4	53.4		UK Sep	52.6	52.9	$\overline{}$		
Germany Sep	54.3	53.6		Germany Sep	50.9	51.7			
France Sep	49.7	48.3		France Sep	53.3	52.3			
Italy Sep	51.0	49.8		Italy Sep	53.4	53.4			
Spain Sep	52.3	51.0		Spain Sep	54.7	56.0			
Ireland Sep	51.3	51.7	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ireland Sep	56.2	59.7			
Netherlands Sep	53.4	53.5							
Austria Sep	53.5	52.1							
Greece Sep	49.2	50.4							
Czech Rep Sep	52.0	50.1							
Source: Markit, TrendMacro calculations									







Draghi's dashboard: swap-implied inflation expectations since "Whatever it takes" - 5-year inflation-swap rate, 5 years forward



Source: Bloomberg, TrendMacro calculations