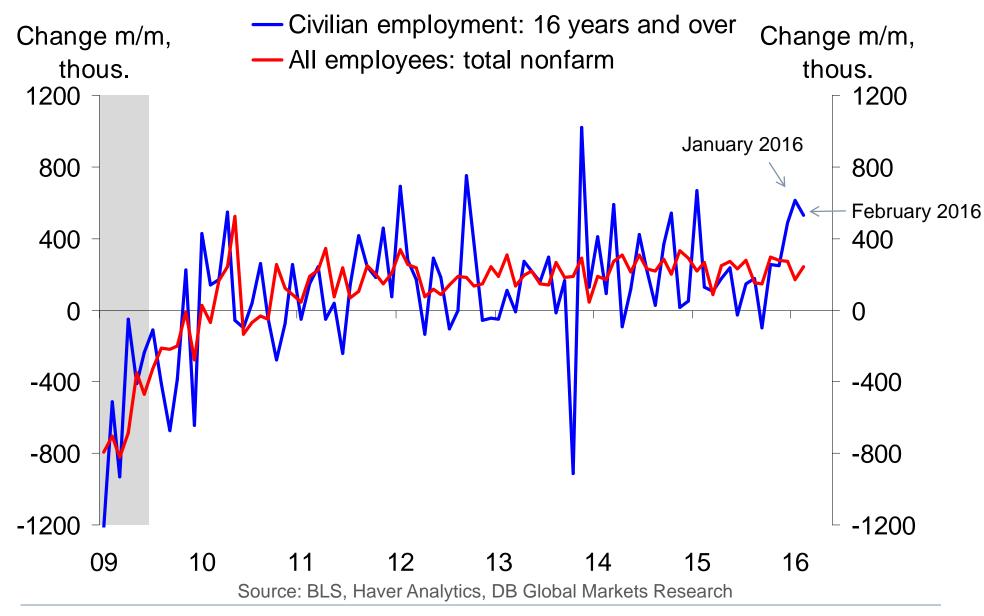


Fed rate hikes coming



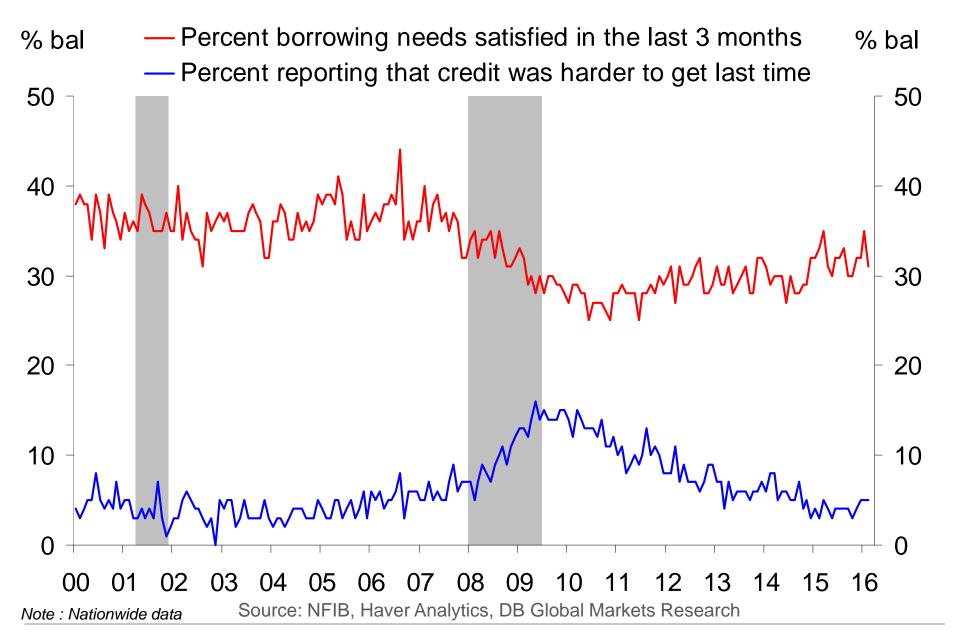
Where is the slowdown?





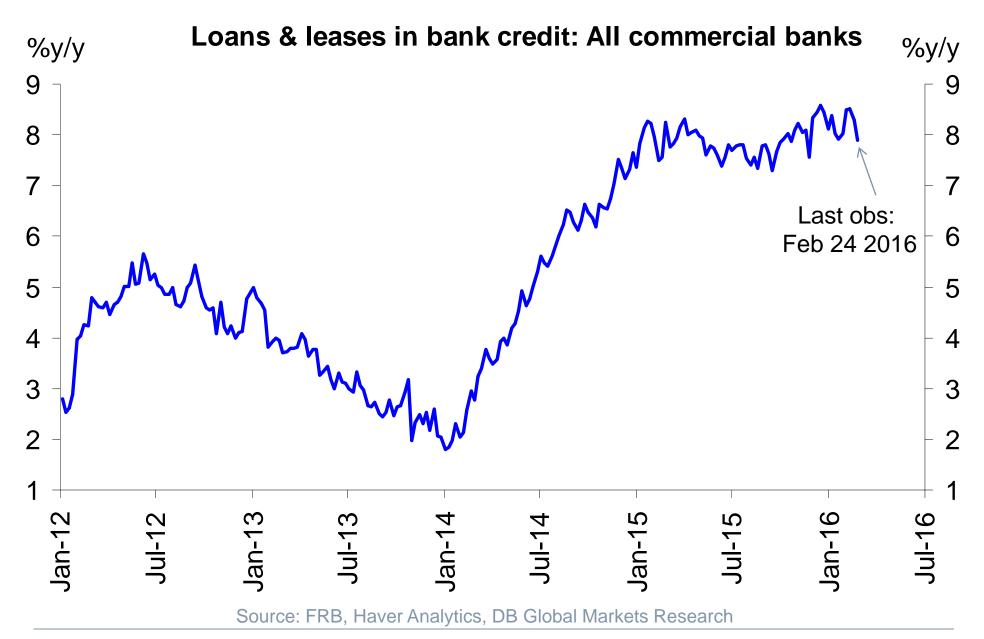
No signs of a US credit crunch for small businesses





Weekly data shows no signs of a US credit crunch



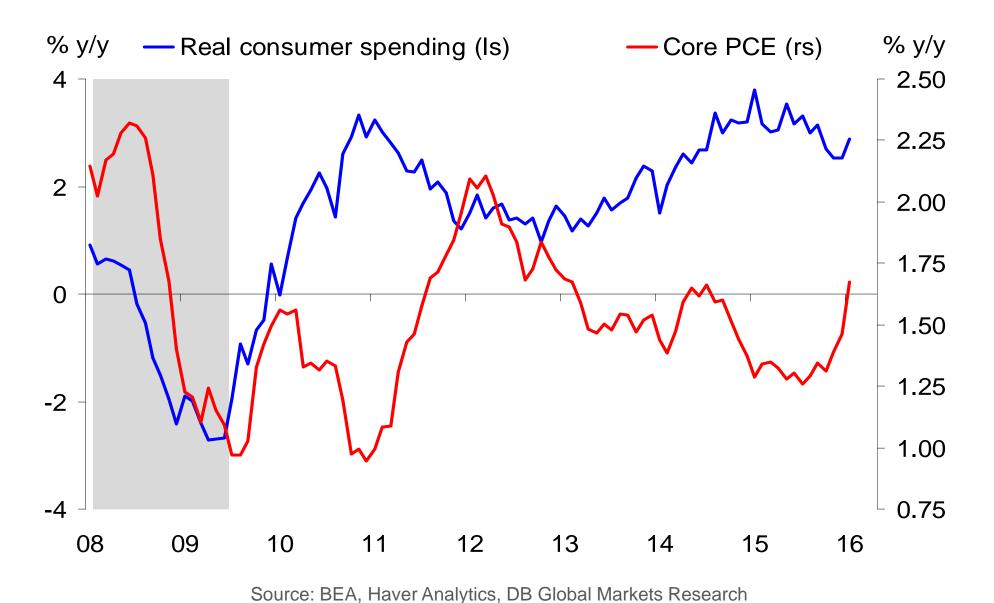




US Overview: No signs of a recession

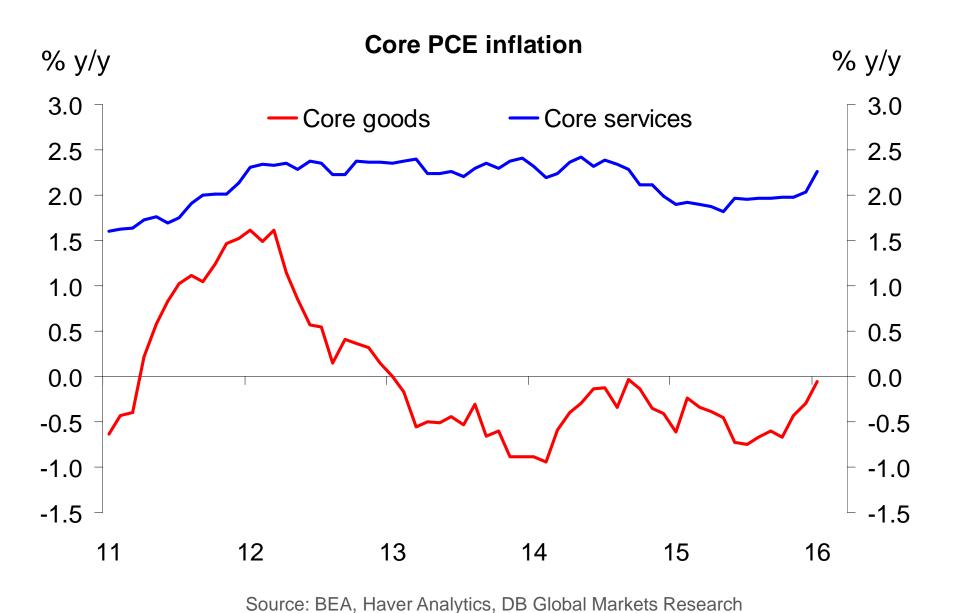
Consumer spending and inflation accelerating





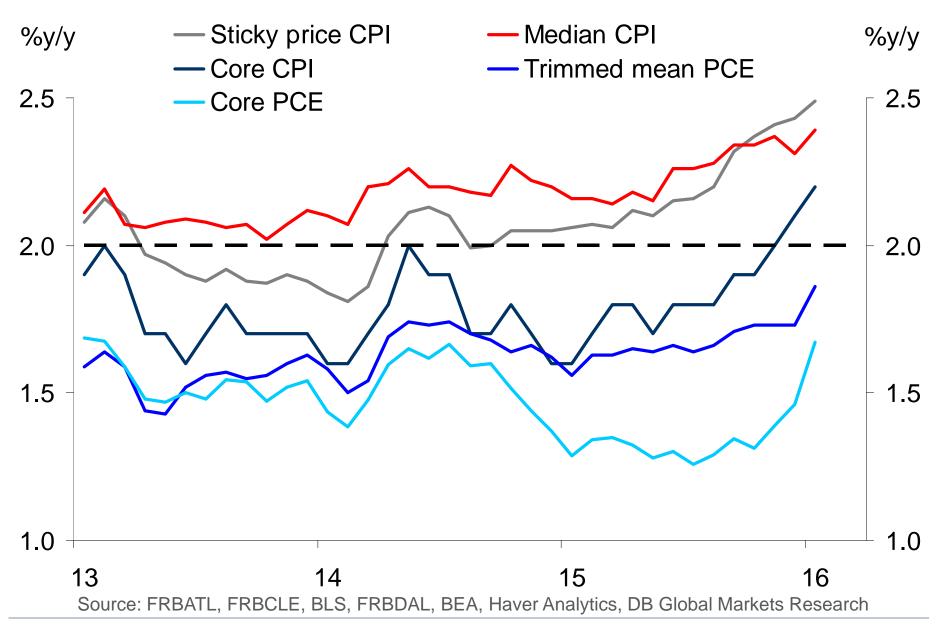
Inflation trending higher for both goods and services





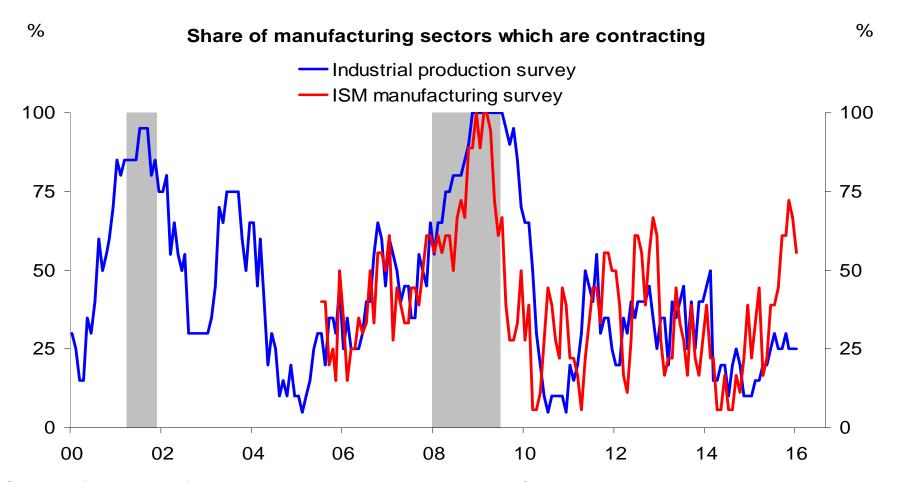
US inflation trending higher





Share of manufacturing sectors in recession



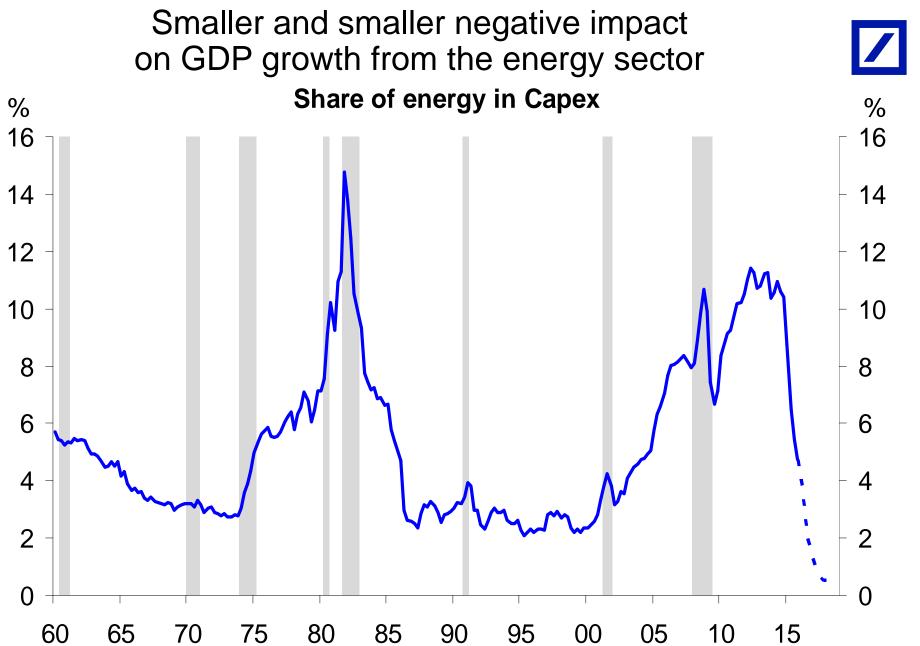


Sectors which are expanding: Wood products; Nonmetallic mineral products; Computer and electronic products; Electrical eqpt, appliance & components; Motor vehicles & parts; Aerospace & other misc transportation eqpt; Furniture & related products; Miscellaneous; Food, beverage & tobacco products; Textile & product mills; Printing & related support activities; Chemical; Petroleum & coal products; Plastics & rubber products; Other manufacturing

Sectors which are contracting: Primary metal; Fabricated metal products; Machinery; Apparel & leather goods; Paper

Note: Share of sectors contracting in ISM Survey = 100 – percent of industries reporting growth

Source: FRB, Haver Analytics, DB Global Markets Research

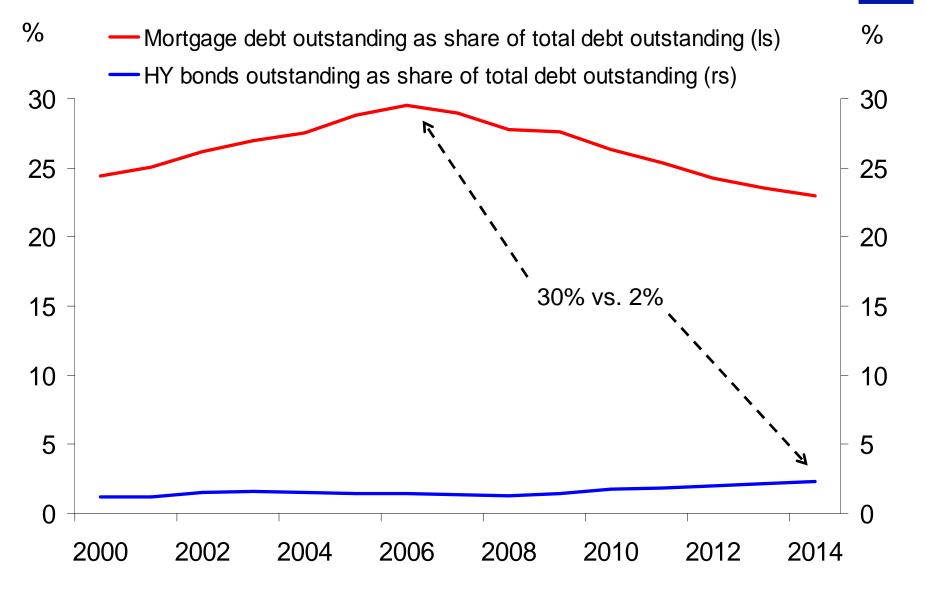


Private fixed investments in petroleum and natural gas explore/wells and mining & oilfield machinery in total non residential fixed investments in equipments and structures

Source: BEA, Haver Analytics, DB Global Markets Research

Today is very different from 2006

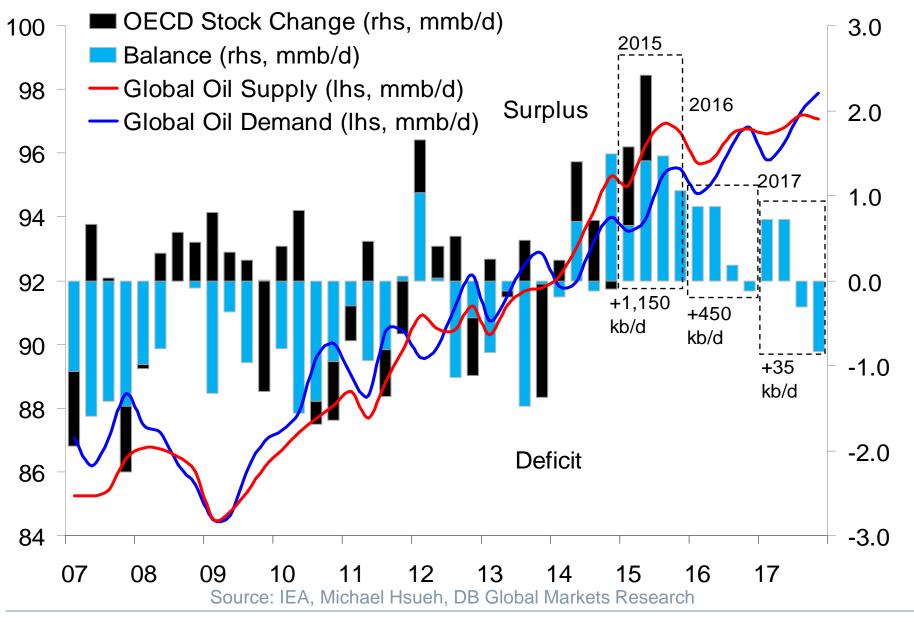




Source: FRB, DB US Credit Strategy, Haver Analytics, DB Global Markets Research

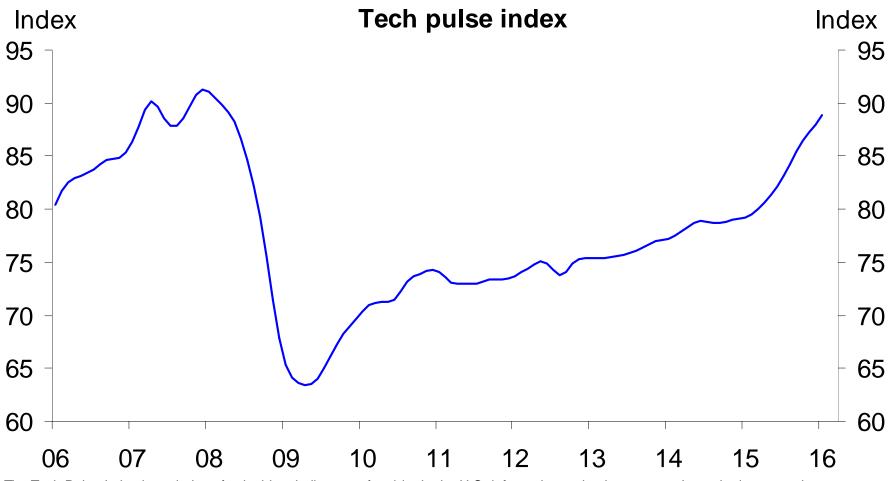
Oil demand and supply imbalance will continue for most of 2016





Tech sector doing well





The Tech Pulse Index is an index of coincident indicators of activity in the U.S. information technology sector. It can be interpreted as a summary statistic that tracks the health of the tech sector in a timely manner. The indicators used to compute the index are investment in IT goods, consumption of personal computers and software, employment in the IT sector, as well as industrial production of and shipments by the technology sector. The index extracts the common trend that drives these series.

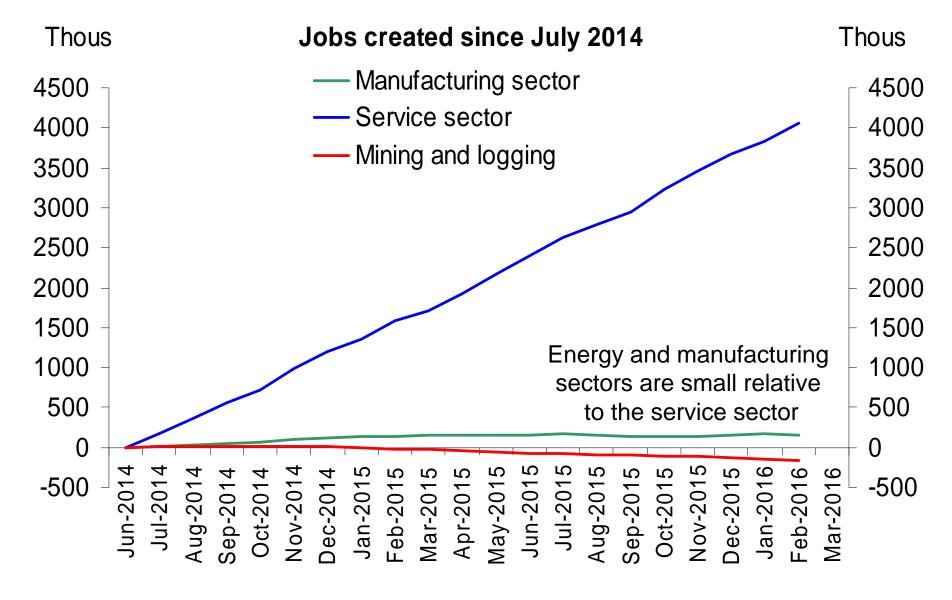
Source: FRBSF, Haver Analytics, DB Global Markets Research



US labor market

Job creation since the summer of 2014 when oil prices started falling, the dollar started rising, and credit spreads started widening

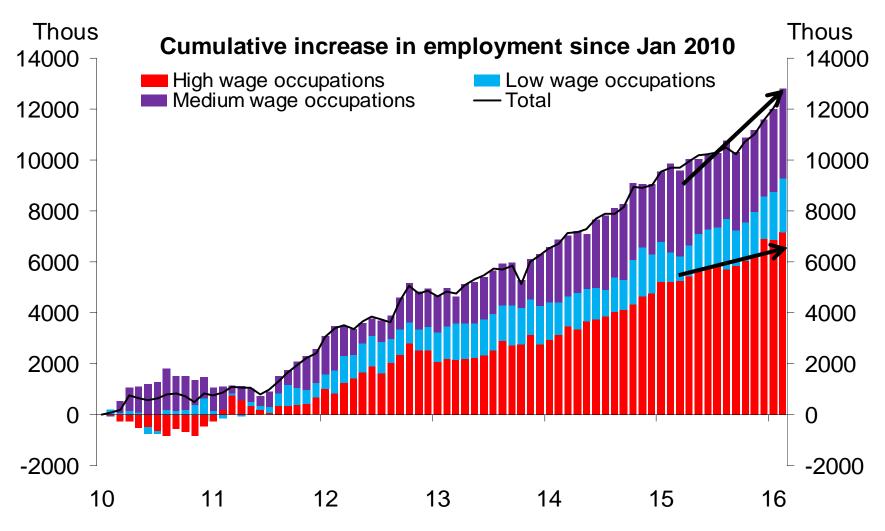




Source: BLS, Haver Analytics, Deutsche Bank Research

At first, this was a high wage/long education expansion. Now the expansion is broadening out to also benefit low and middle-income workers



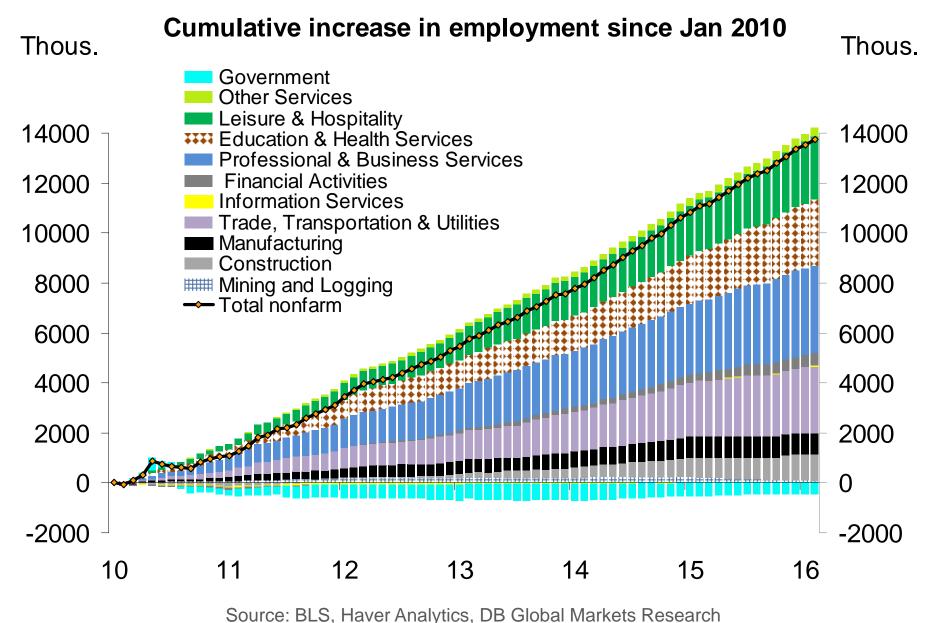


High wage occupational categories are management, professional and related occupations. Medium wage categories are sales and office occupations; construction and extraction occupations; installation, maintenance and repair occupations; and production/transportation and material moving occupations. Low wage occupations are service occupations and farming, fishing, and forestry.

Source: BLS, Haver Analytics, DB Global Markets Research

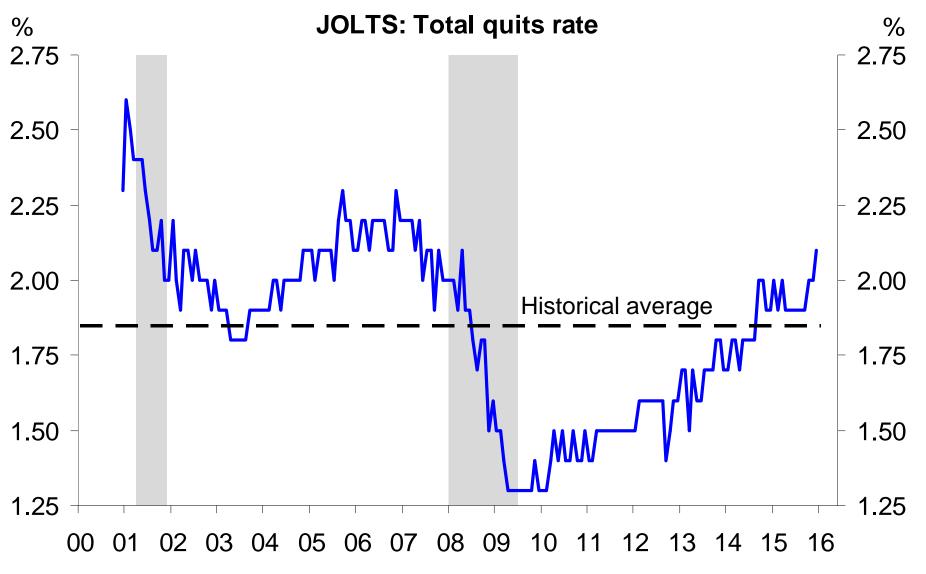
Employment growth during this recovery





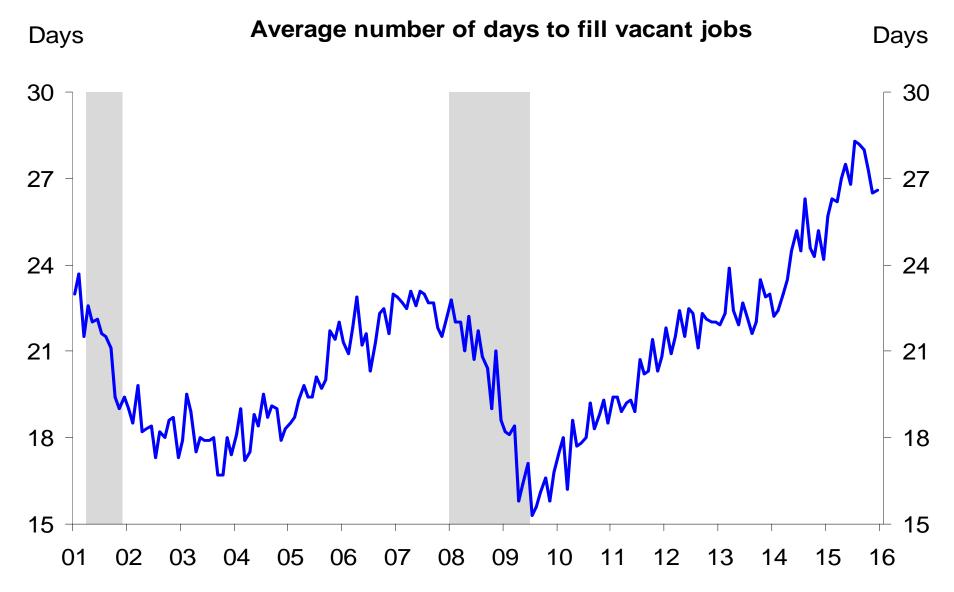
More and more workers are voluntarily quitting their jobs





It currently takes 27 days to fill a vacant job, up from 23 days in 2006





Source: Dice Holdings, Haver Analytics, DB Global Markets Research

Less slack in the labor market: Number of available people per job opening is now at 2006-2007 levels



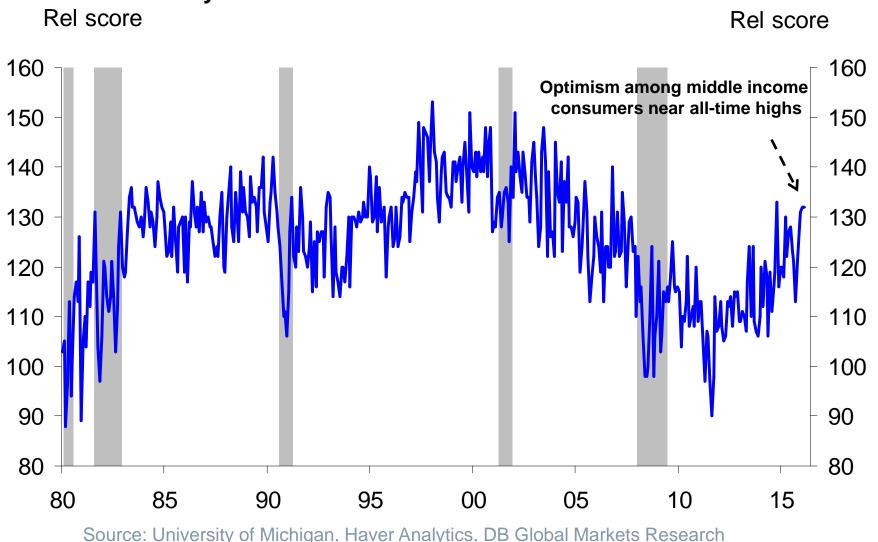


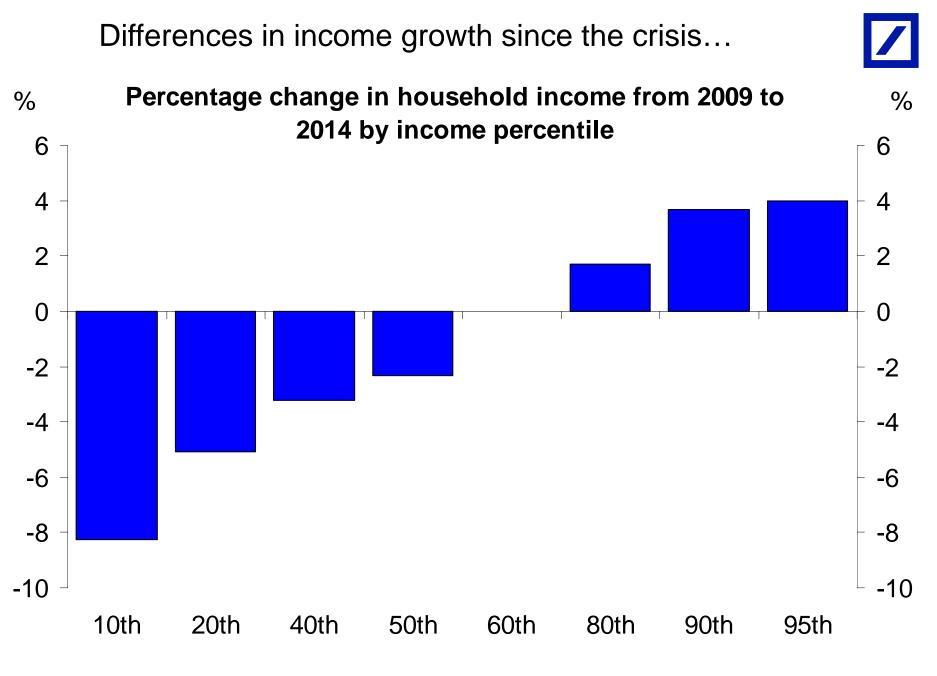
Source: BLS, JOLTS, Haver Analytics, DB Global Markets Research

Lower gas, more jobs, higher minimum wages: Middle income groups more optimistic about the future than in 2005-2006



Expected change in financial situation in a year for the middle 33% household income

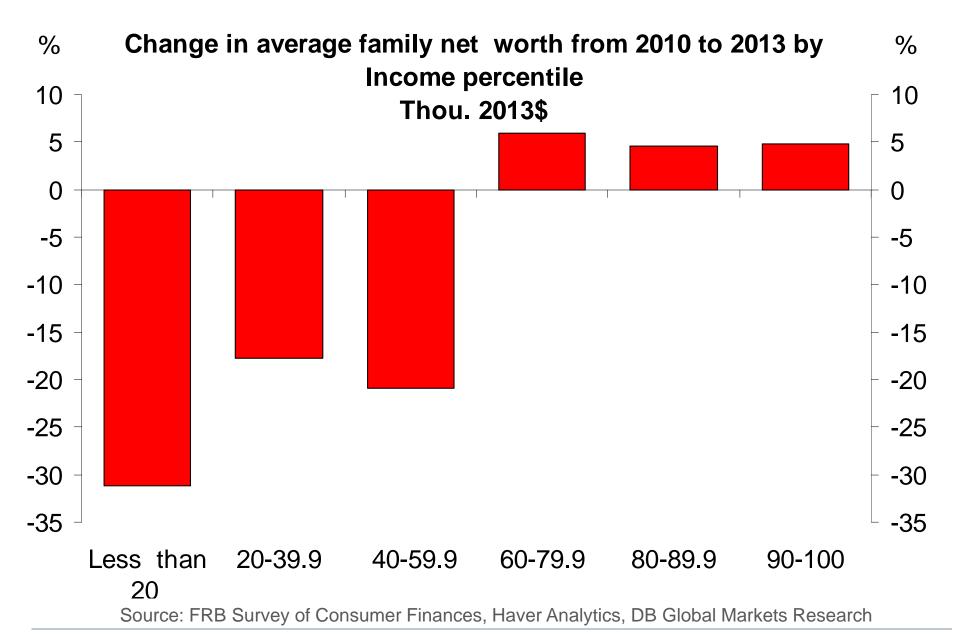




Source: US Census, DB Global Markets Research

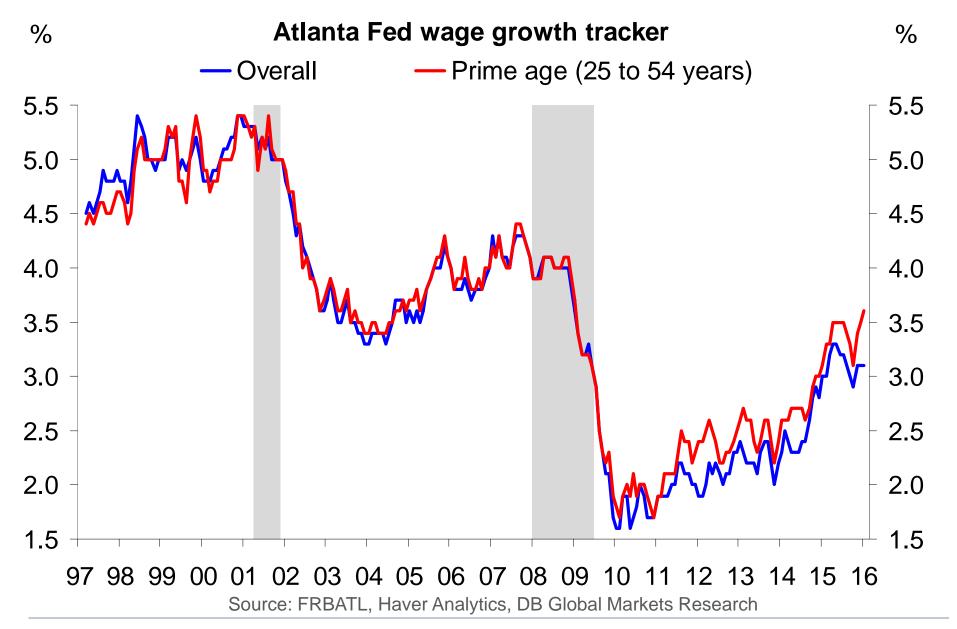
...differences in wealth gains since the crisis





Wage growth for prime age workers at highest level since crisis







US rates:

Domestic forces vs global forces



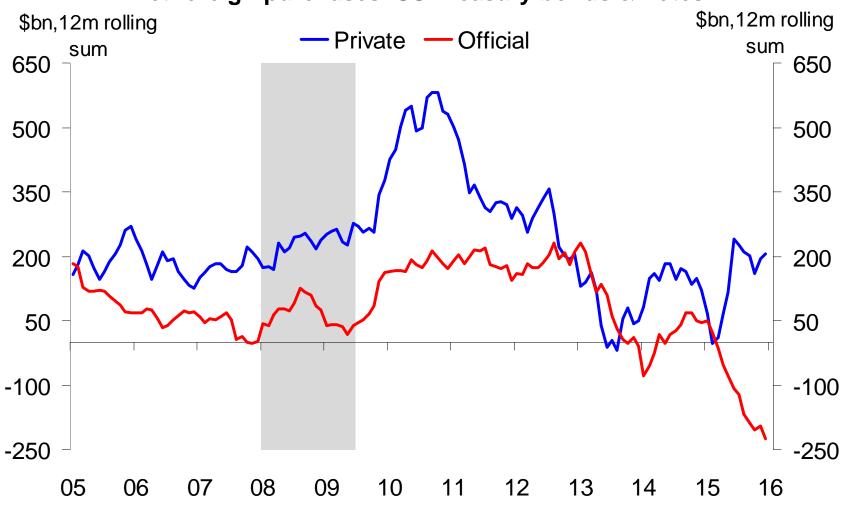
Forces driving rates at the moment

- Fed expectations
- Quantitative tightening (pushing front-end rates up)
- Foreign private demand (pushing rates down)
- ECB and BoJ QE (pushing rates down)
- Fed hiking slowly (pushing long rates down)

Foreign official sector became a net seller of Treasuries in March 2015



Net foreign purchases: US Treasury bonds & notes

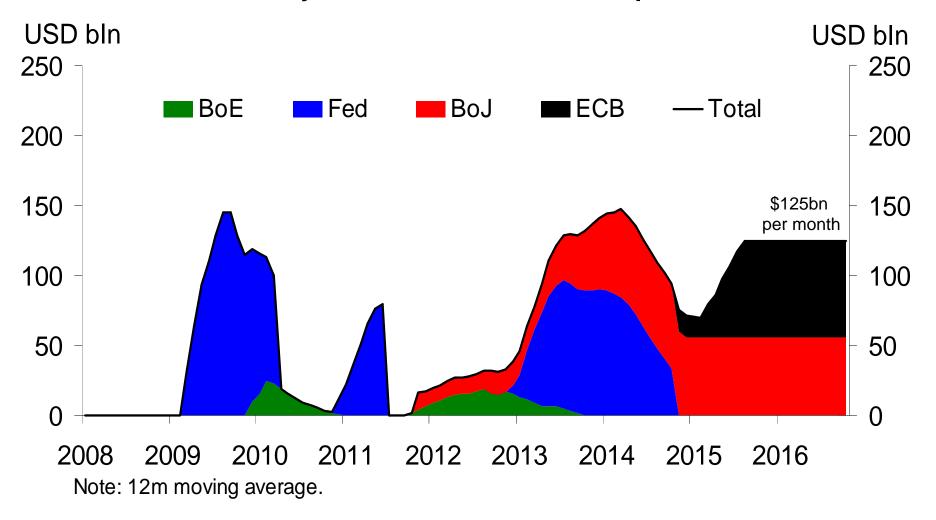


Source: Treasury, Haver Analytics, DB Global Markets Research

Still plenty of liquidity being added to markets: ECB and BoJ buying a combined \$125bn every month



Monthly Fed, ECB, and BoJ asset purchases



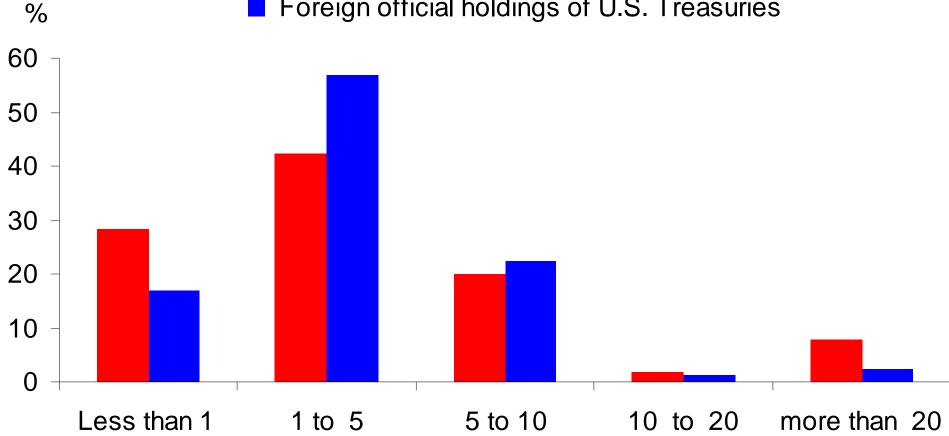
Source: BoE, DB Global Markets Research

Foreign central banks are overweight the belly of the Treasury curve



Maturity structure of:

- Privately held marketable public debt
- Foreign official holdings of U.S. Treasuries

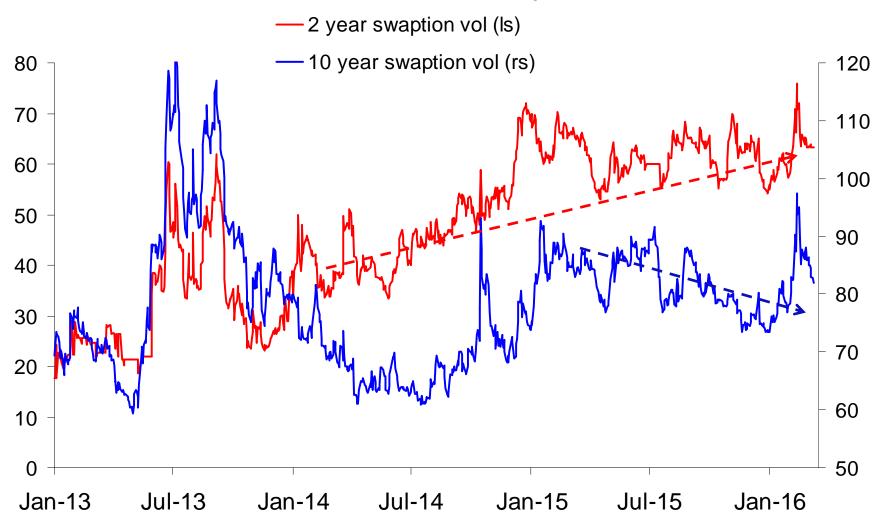


Source: U.S.. Treasury, Haver Analytics, Deutsche Bank Research

More uncertainty about front-end rates and the pace of rate hikes. Less uncertainty about long rates



3MoX2Yr and 3MoX10Yr swaption vol



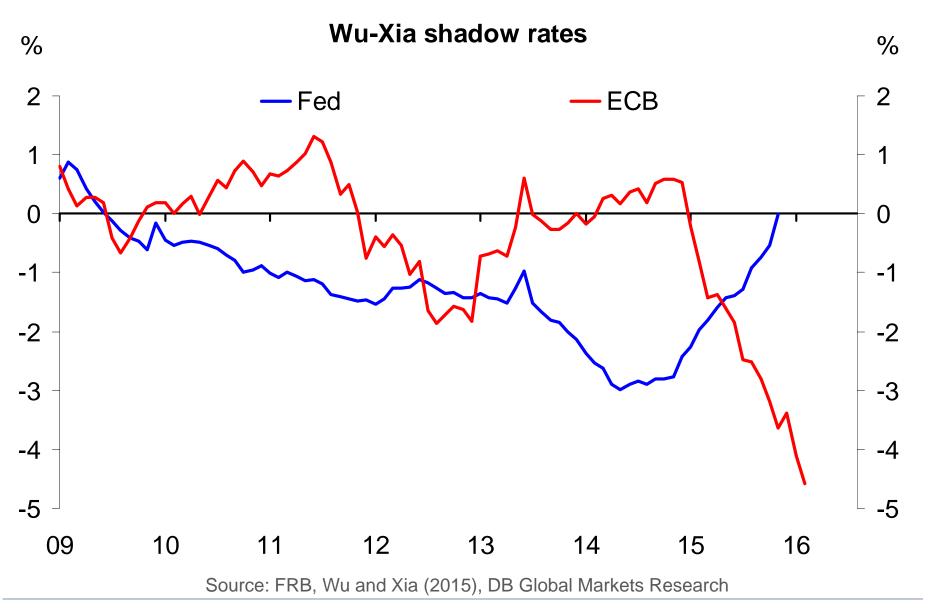
Source: Bloomberg (USSN0C2 Curncy and USSN0C10 Curncy), DB Global Markets Research



Europe and China

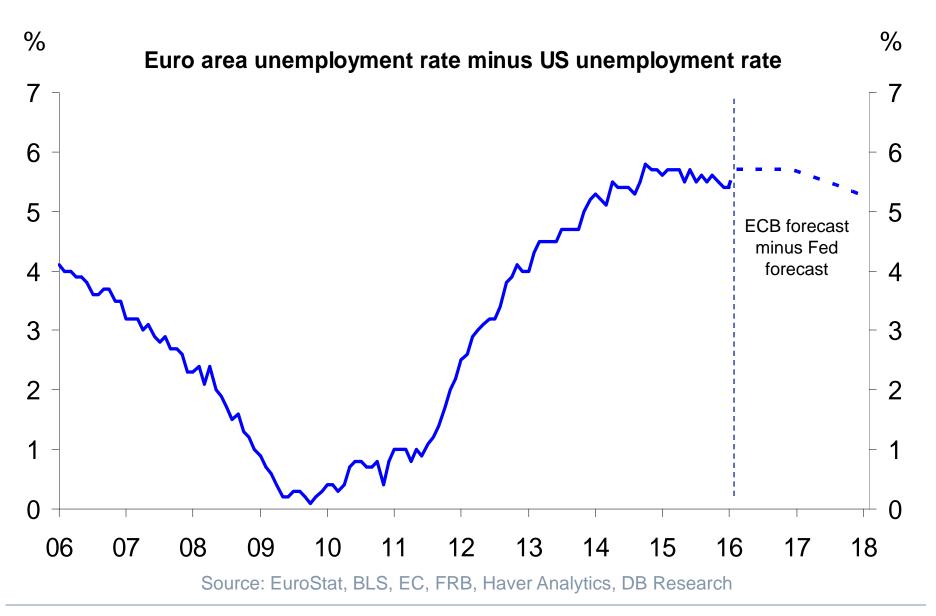
Divergence between Fed and ECB





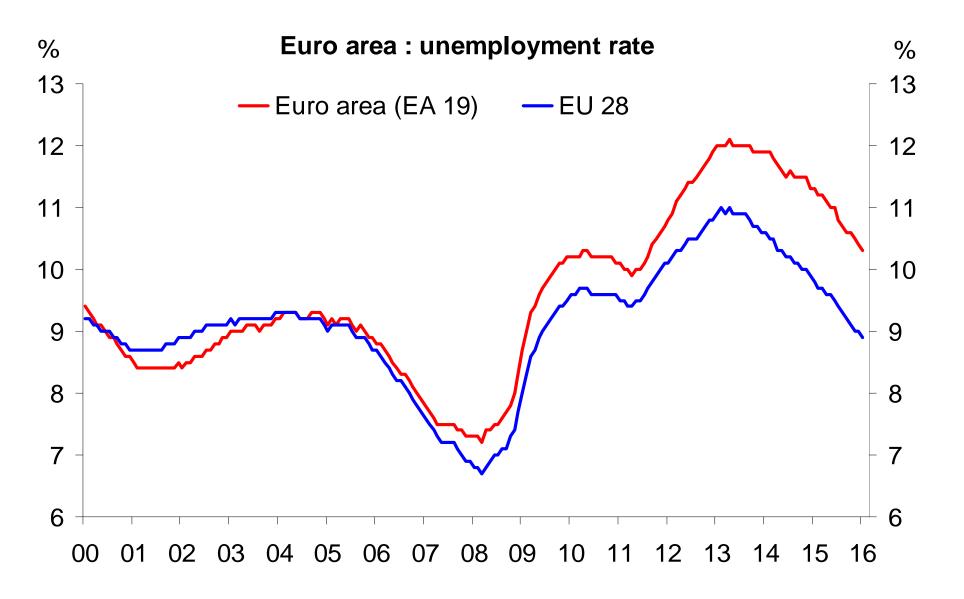
Peak divergence between the Fed and the ECB has implications for European and US rates and EUR/USD





Unemployment rate coming down in Europe

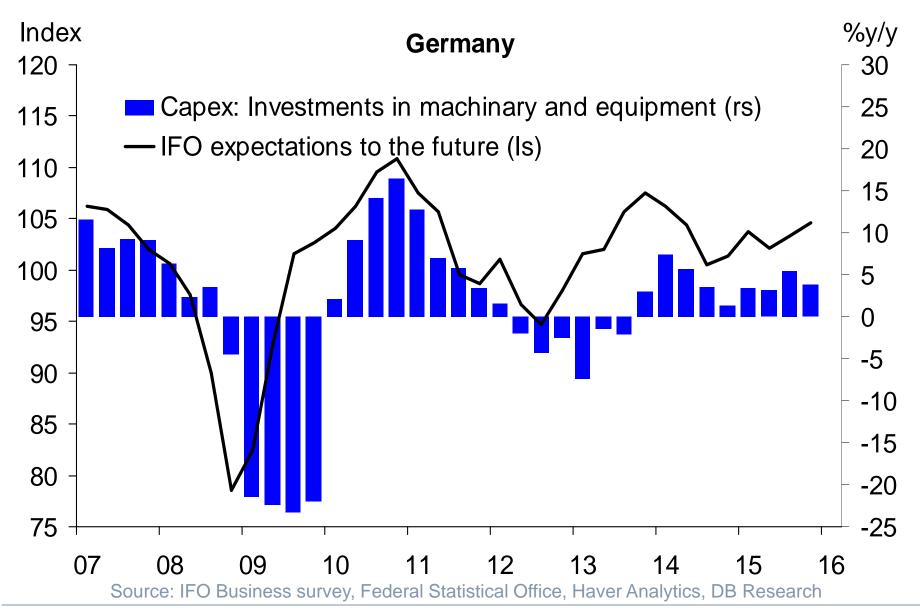




Source: Eurostat, Haver Analytics, DB Global Markets Research

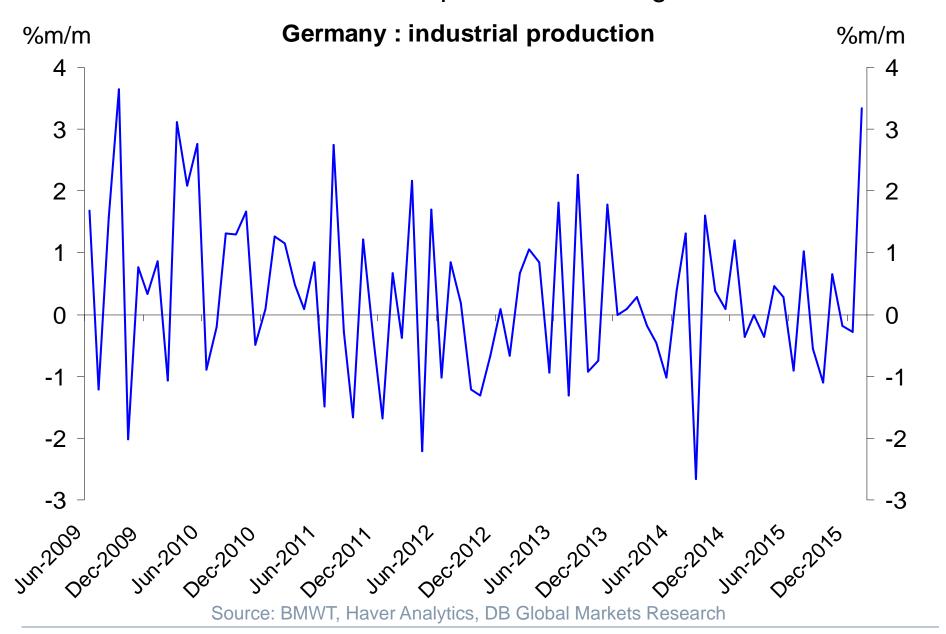
Europe in better shape than market pricing suggests





/

German industrial production strong



Target 2 balances widening out again



350

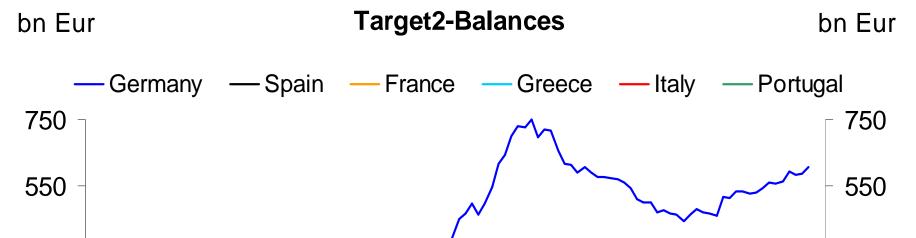
150

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16



Source: BBK,BdE,BdF,BoG, BdIt,BdP, Haver Analytics, DB Global Markets Research

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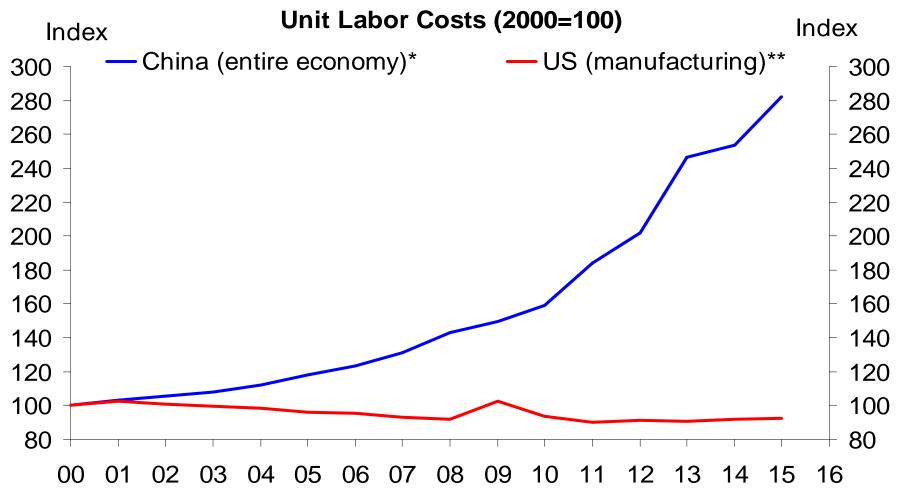
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Labor costs have grown much faster in China than in the US





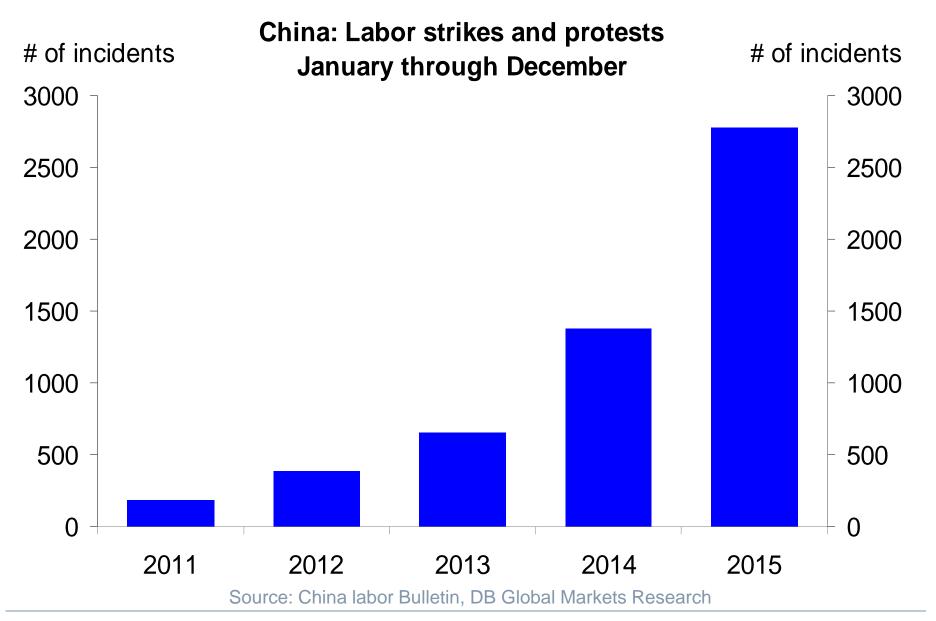
^{* 2015} value for China has been calculated by taking the average growth rate of the past five years.

Source: CNBS, BLS, Haver Analytics, DB Global Markets Research

^{** 2015} value for the US is the average of the first three quarters.



Social unrest picking up in China

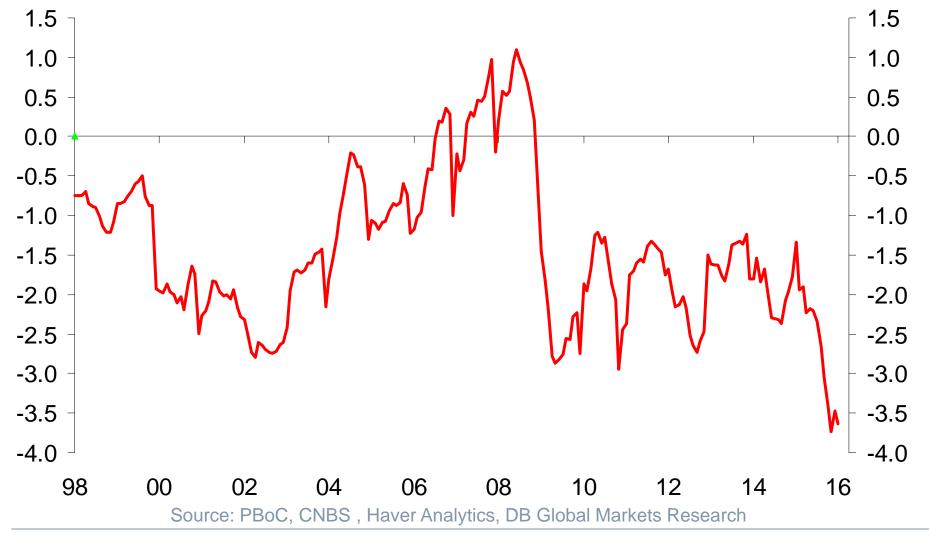


China stimulus efforts increasing



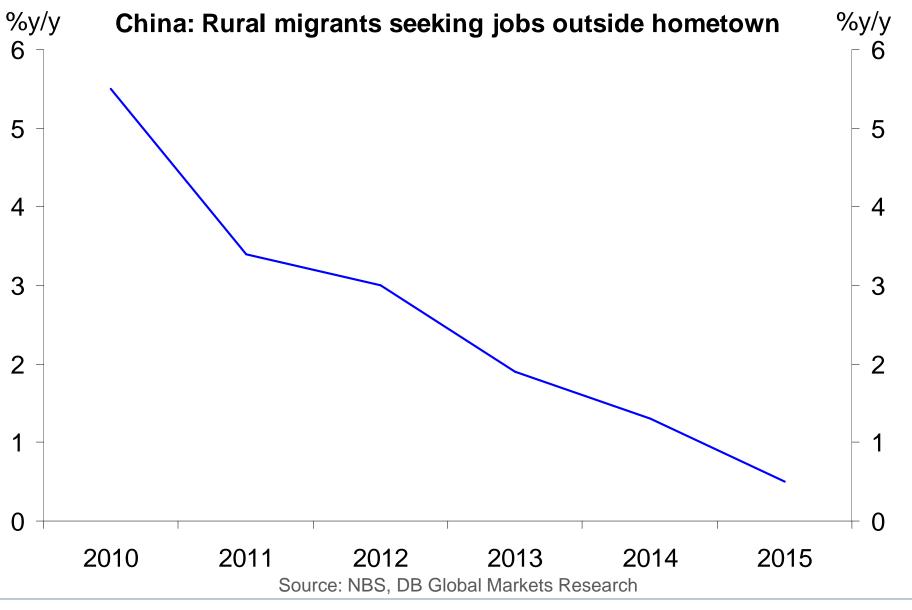






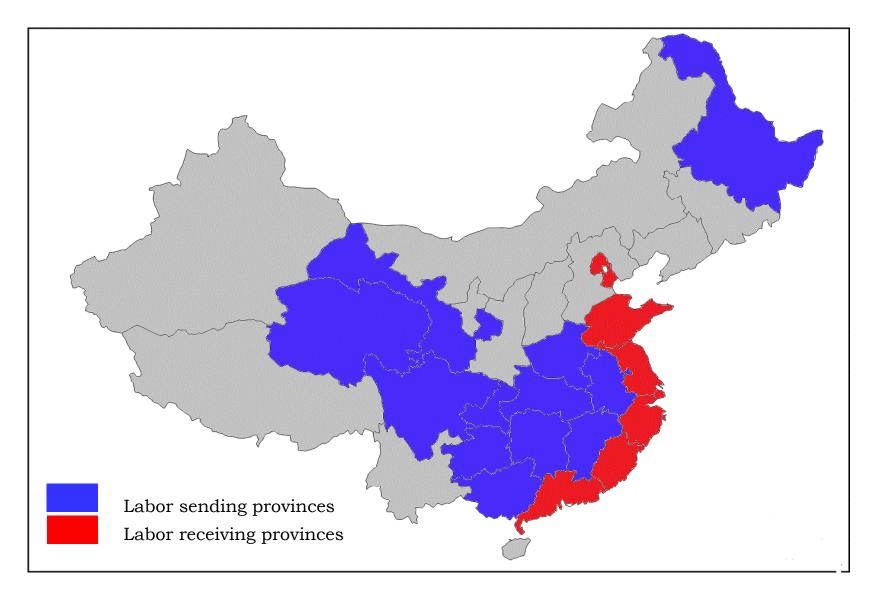
China: Essentially no migration from rural to urban areas



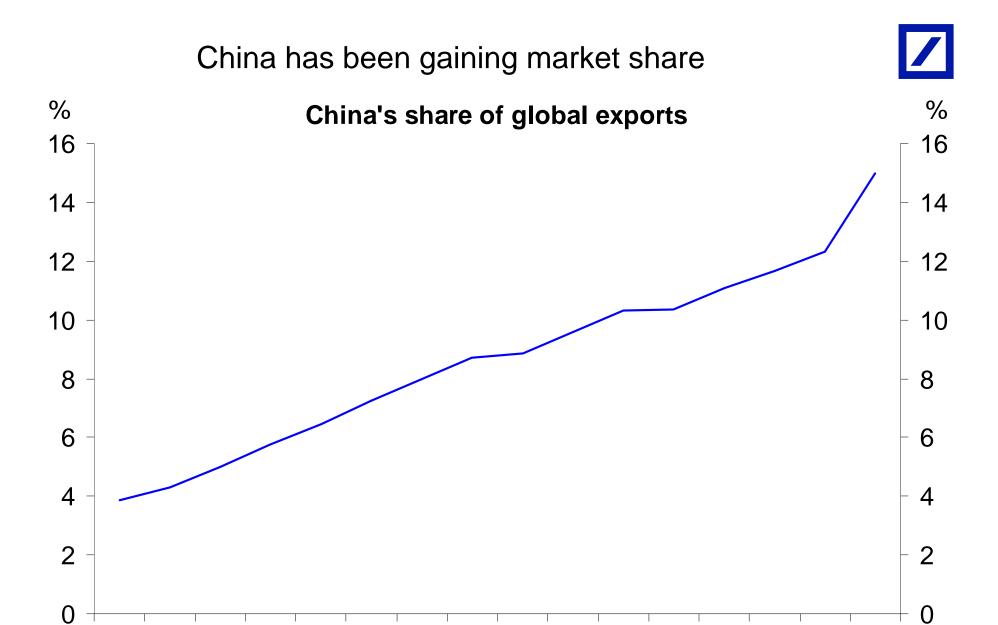


China: Rural migrant labor sending and labor receiving areas





Source: NBS, DB Global Markets Research



*For 2015, we have aggregated the monthly data as annual figures for 2015 has not been published yet

05

Source: WTO, DB Global Markets Research

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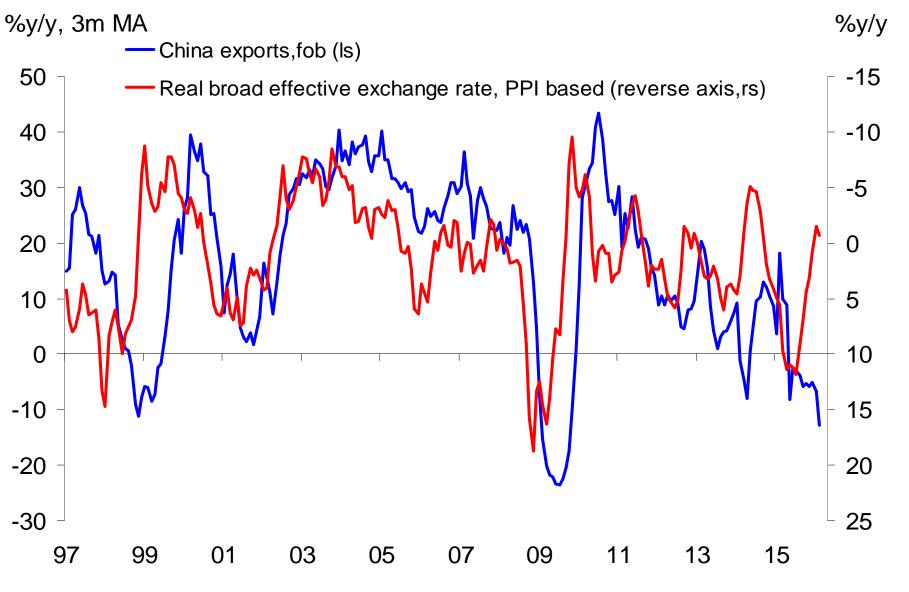
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Chinese exports will benefit from lower RMB

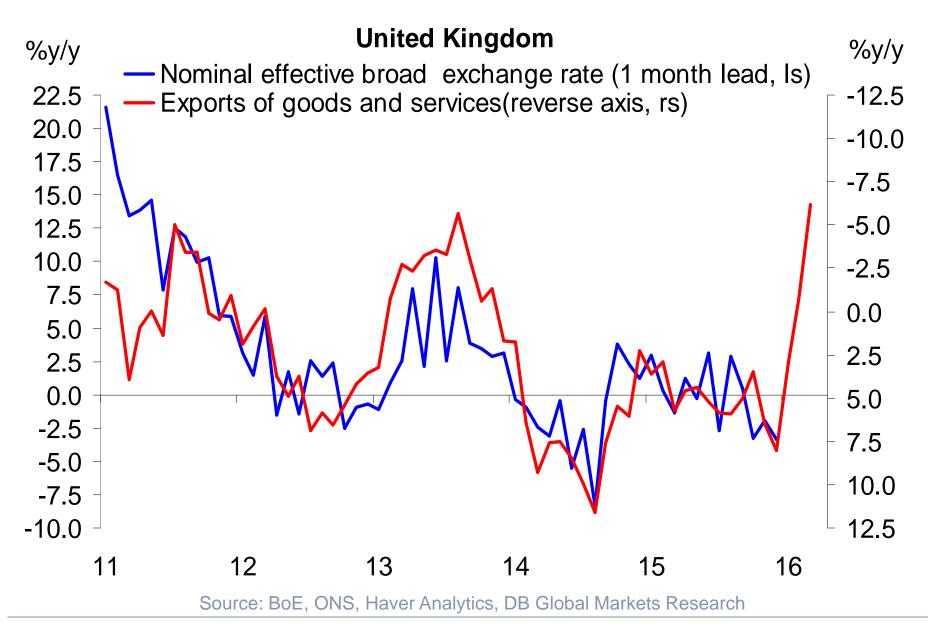




Source: CC, JPM, Haver Analytics, DB Global Markets Research

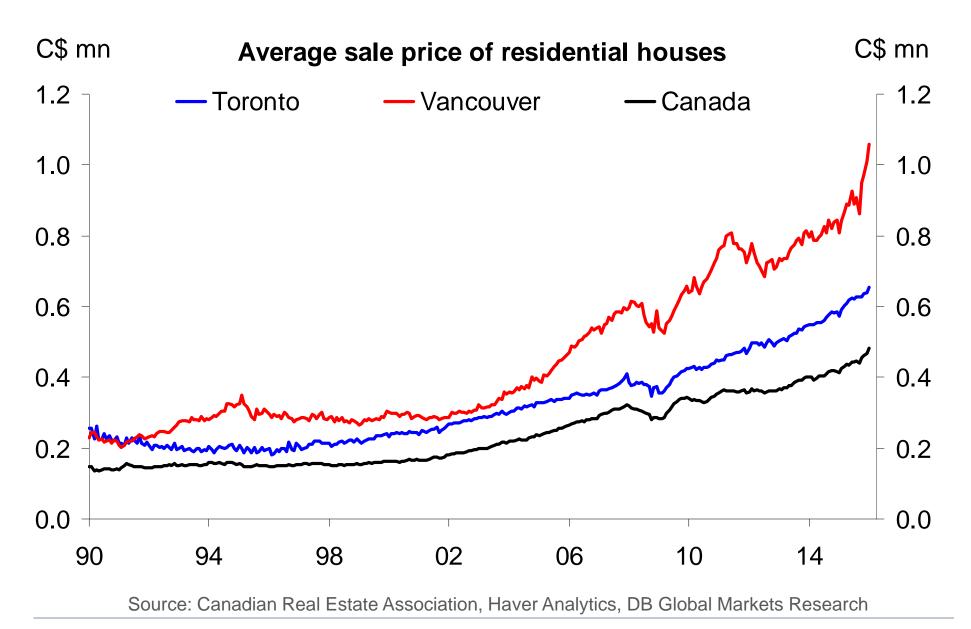


GBP depreciation boosting UK growth



Canadian housing needs higher, not lower interest rates





How over/undervalued are home prices today relative to historical averages of home price/rent and home price/income?

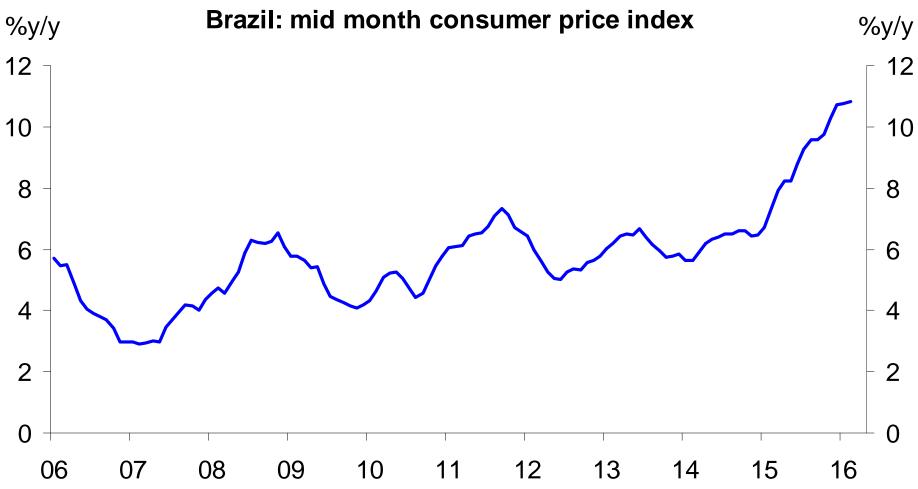


Country	1) Home price/income (% above historical average)	2) Home price/rent (% above historical average)	Current average over/undervaluation of home prices (=average of column 1) and 2) (%)
New Zealand	48	99	73
Canada	38	91	64
Sweden	50	67	59
Australia	47	70	59
Norway	25	69	47
Belgium	40	44	42
U.K	30	49	40
France	21	26	24
Denmark	15	26	21
Ireland	9	31	20
Spain	15	21	18
Finland	-4	29	13
Netherlands	15	4	10
Switzerland	-8	3	-2
U.S	-10	5	-2
Italy	0	-6	-3
Germany	-7	-5	-6
Greece	-2	-18	-10
Korea	-38	6	-16
Japan	-29	-22	-26

Source: OECD, DB Global Markets Research

Brazilian inflation above 10%





Note: The Extended National Consumer Price Index-15 (IPCA-15) has a collection period that goes approximately from the 15th day of the previous month to the 15th day of the reference month.

Source: IBGE, Haver Analytics, DB Global Markets Research

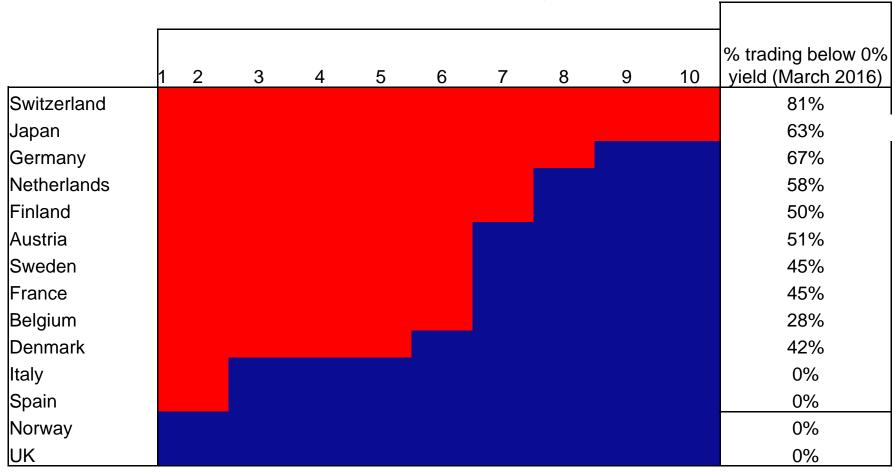


Investment implications

Getting harder and harder for fixed income investors





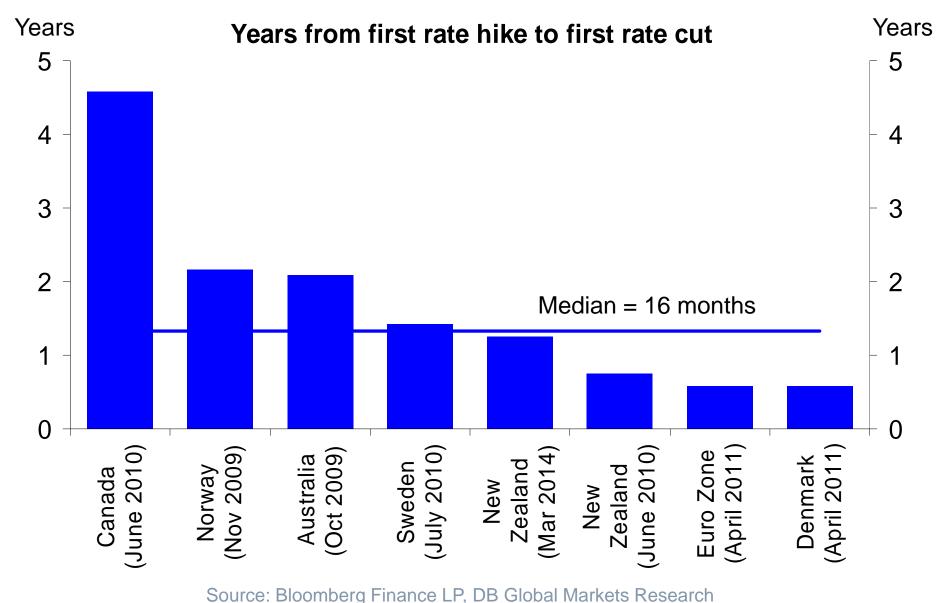




Source: Bloomberg Finance LP, DB Global Markets Research

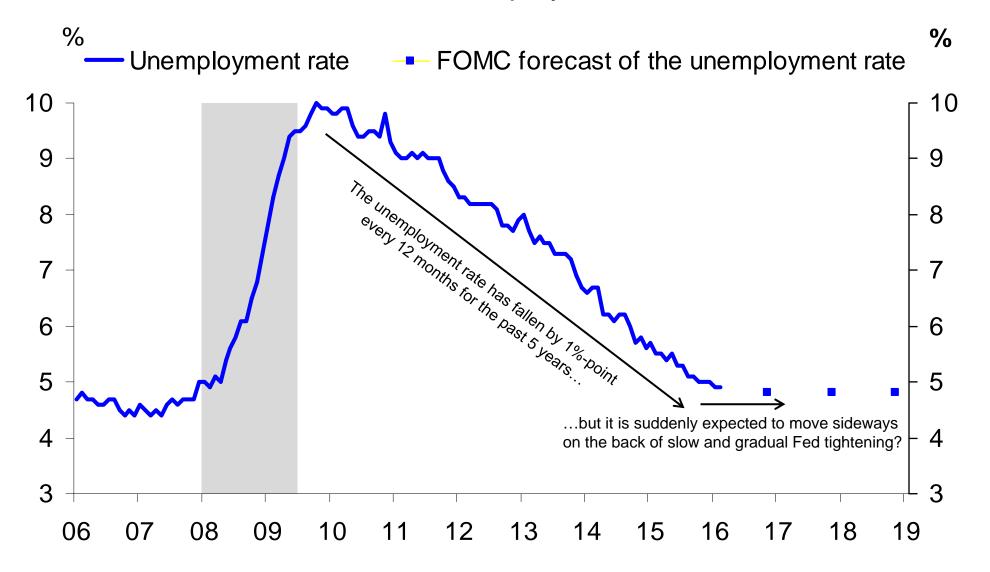
If the Fed hikes in December and follows the pattern seen elsewhere they will have to ease in early 2017





What is the thinking behind the FOMC's forecast of the unemployment rate?





Note: Median forecast used. Source: BLS, Conference Board, Haver Analytics, Deutsche Bank Research

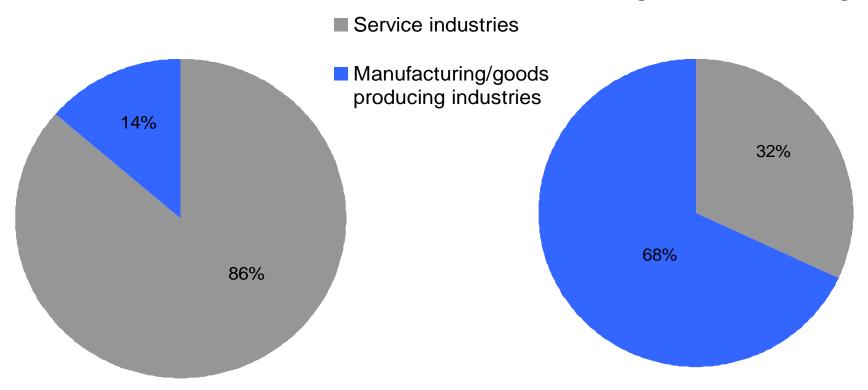
Impact of higher dollar and lower energy prices much bigger on S&P500 than on GDP.



As a result, we are having a profit recession without an economic recession

Share of US employment in:

Share of earnings in S&P500 coming from:



Note: Service industries are: Financials, Multiline Retail, Specialty Retail, Internet & Catalog Retail, Diversified Consumer Services, Hotels, Restaurants & Leisure, IT Services, and Health Care Providers & Services. Source: David Bianco, Ju Wang, Winnie Nip.

Investment implications summarized

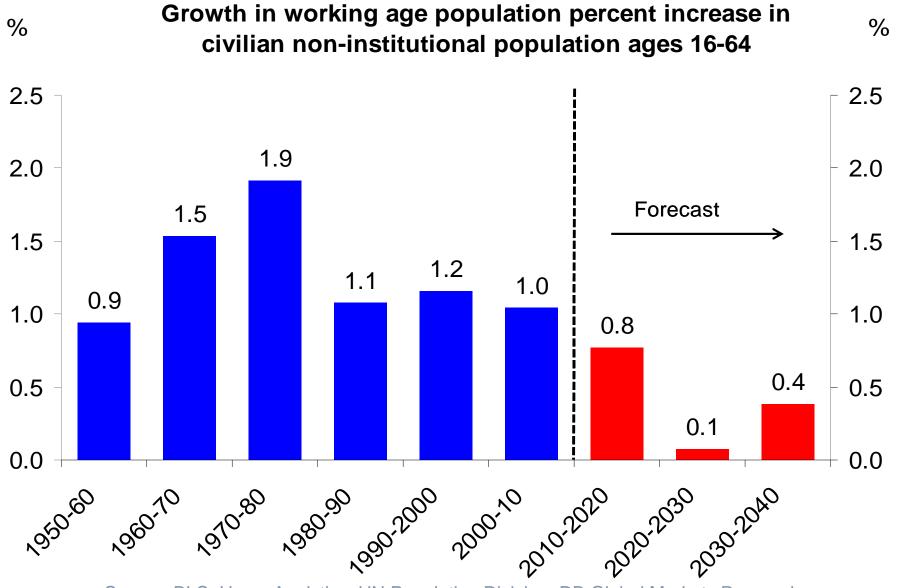


Fed outlook - Fed hikes coming	China and EM slowdown and higher dollar and wider credit spreads may be risks to the US economy but so far there are no signs of a broader slowdown in the domestic US economy.	
Bond markets - Rates modestly higher	ECB and BoJ QE holding US rates down. Foreign private buyers holding US rates down. Fed liftoff and quantitative tightening pushing rates up.	
Stock markets - Better private sector balance sheets	Corporate, household, and banking sector balance sheets continue to heal, macro momentum is solid, and the Fed continues to support risky assets. This all bodes well for equities.	
FX - USD lower?	Long USD trade feels very crowded and Europe benefiting from lower oil, lower euro, and solid US expansion. EUR/USD could rise in 2016.	
Commodities - Downside risks continue	Slowing Chinese growth likely to continue to put downward pressure on commodity prices. Falling commodity prices hitting Australia, Latam, and Canada.	
Emerging markets - Falling commodity prices a negative	Structural problems exposed in a number of emerging markets.	

Source: DB Global Markets Research



US labor force growth over time



Source: BLS, Haver Analytics, UN Population Division, DB Global Markets Research





Torsten Slok, Ph.D.

- Chief International Economist, Managing Director
- Deutsche Bank Securities, Inc.
- Torsten Slok joined Deutsche Bank Securities in the fall of 2005.
- Mr. Slok's Economics team has been top-ranked by Institutional Investor in fixed income and equities for the past five years. Slok currently serves as a member of the Economic Club of New York
- Prior to joining the firm, Mr. Slok worked at the OECD in Paris in the Money and Finance Division and the Structural Policy Analysis Division. Before joining the OECD he worked for four years at the IMF in the Division responsible for writing the World Economic Outlook and the Division responsible for China, Hong Kong, and Mongolia.
- Mr. Slok studied at University of Copenhagen and Princeton University. He has published numerous journal articles and reviews on economics and policy analysis, including in Journal of International Economics, Journal of International Money and Finance, and The Econometric Journal.



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