

# The Little Inflation with the Big Bite



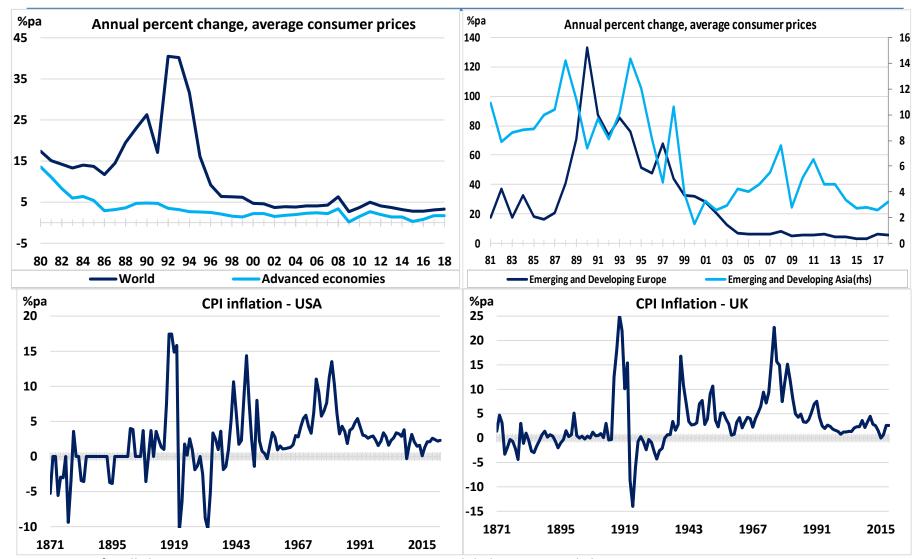
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Assisted by Yvan Berthoux, Liseth Galvis-Corfe and Tom Traill
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#### Introduction

- Historically, DM and EM inflation rates look wellbehaved: the immediate prospect is for the Little Inflation to grow a little larger
- Inflation volatility has almost evaporated, lowering the threshold for surprise
- Yet, the tide of global inflation turned in early 2016
- Global annual nominal GDP growth has lifted from 4 per cent to 6 per cent
- Asia and Europe have led the way in the inflationary turn, with North America catching up and Latin America stabilising



## Consumer price inflations: Little and Large

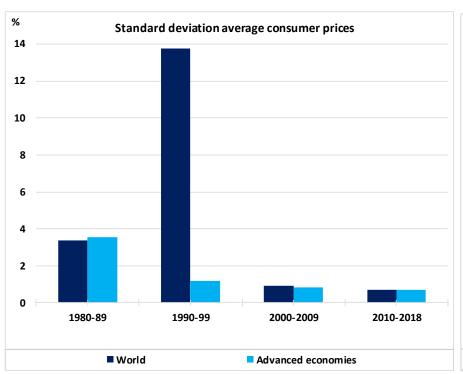


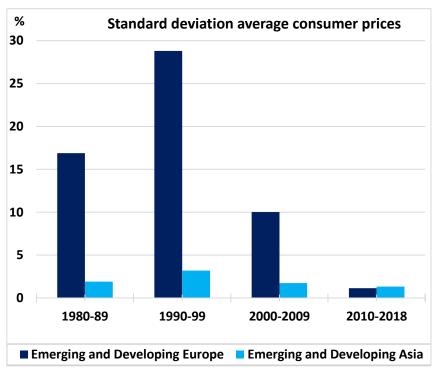
Data sources for all charts: CBO, CEIC, EC, FRED, IEA, IMF, McKinsey Global Institute and Thomson Reuters Datastream



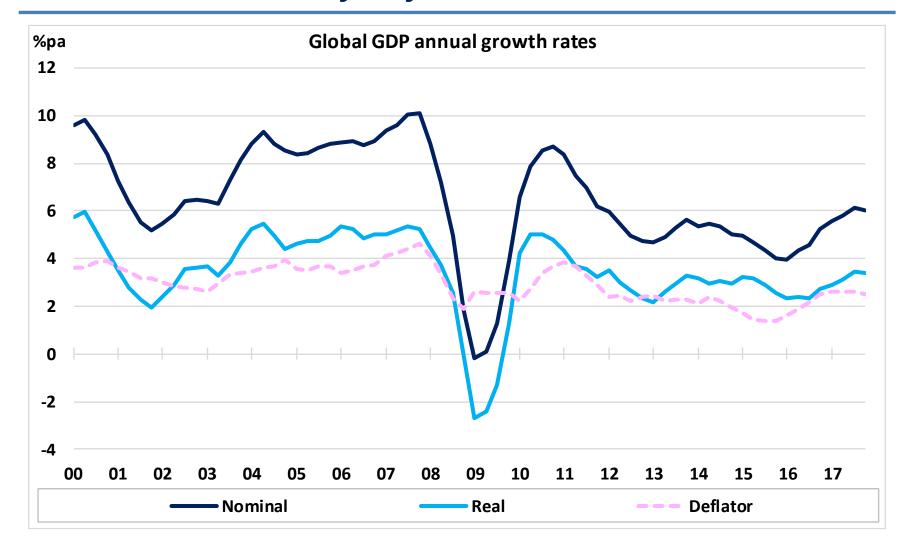
## Declining inflation volatility lowers the surprise threshold

2% inflation does not exert a magnetic force



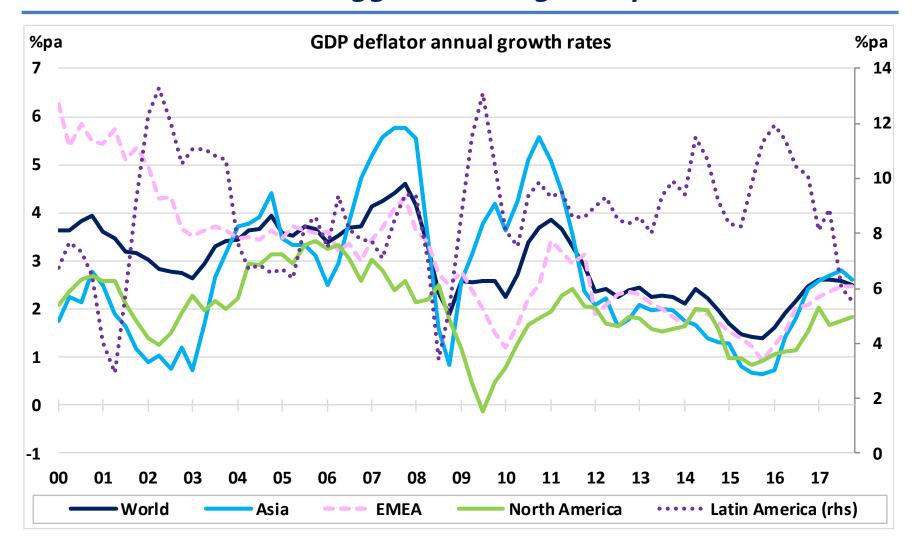


## Global nominal GDP: lifted from a 4% to a 6% world





## North America is the laggard in the global procession





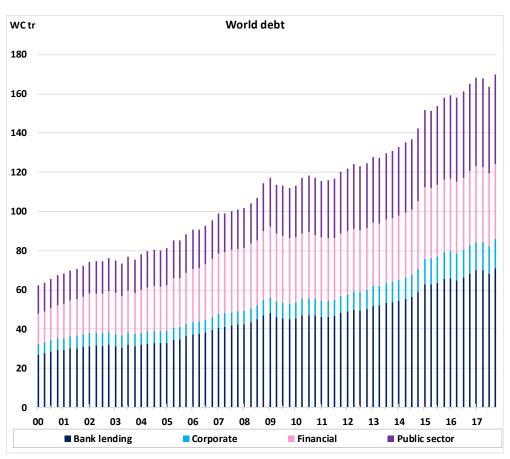
## Observe the nominal framework

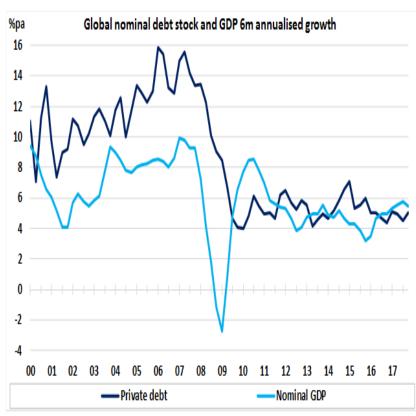
- Global debt is growing at a moderate pace, underpinning nominal GDP growth
- Weakening broad money growth reflects greater corporate use of capital markets
- Government bond yields adapt to the nominal framework of the domestic and international economy
- The widest gap since 1979, suggests that bond yields have some catching up to do
- This would tend to steepen yield curves and stress credit spreads (as investors switch to 'safety')



## The nominal framework: debt growth unabated

Delays in normalising interest rates will be costly

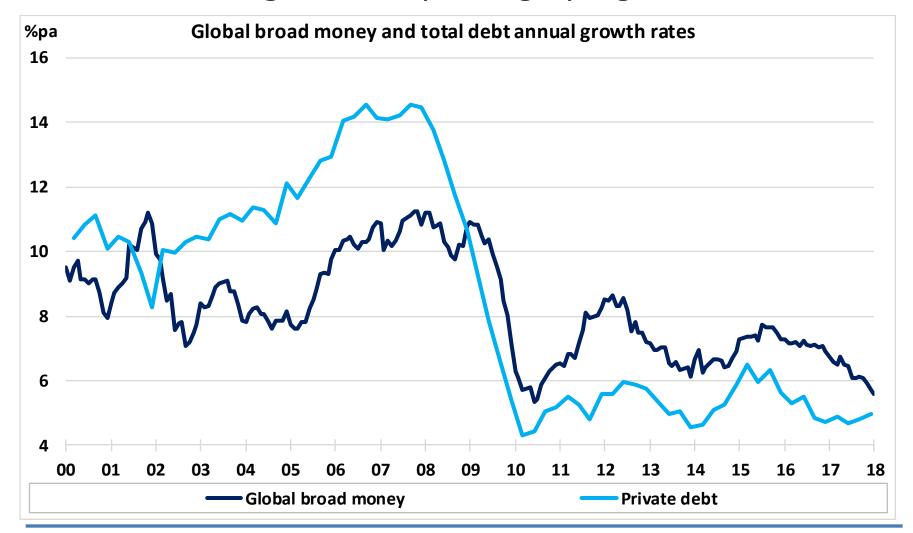






#### Debt and money growth have sustained a steady pace

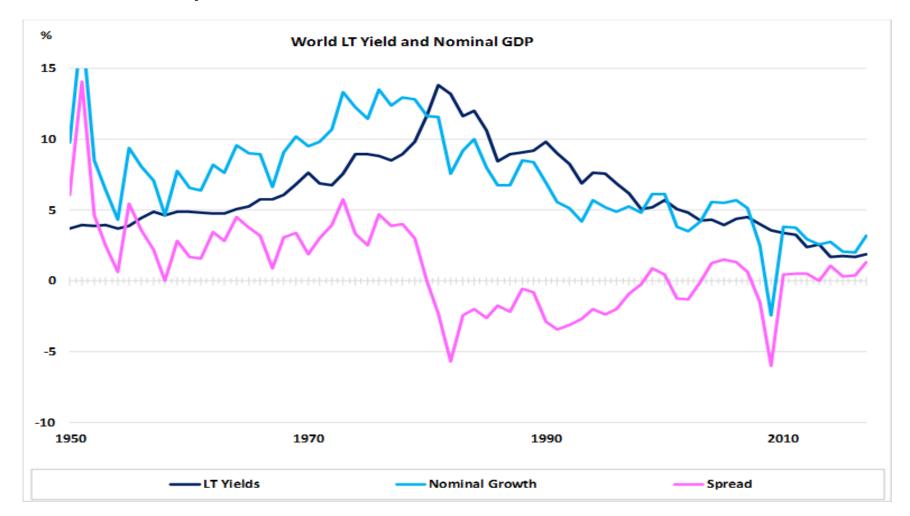
Private debt growth is picking up again





## Benchmark bond yields adapt to nominal GDP growth

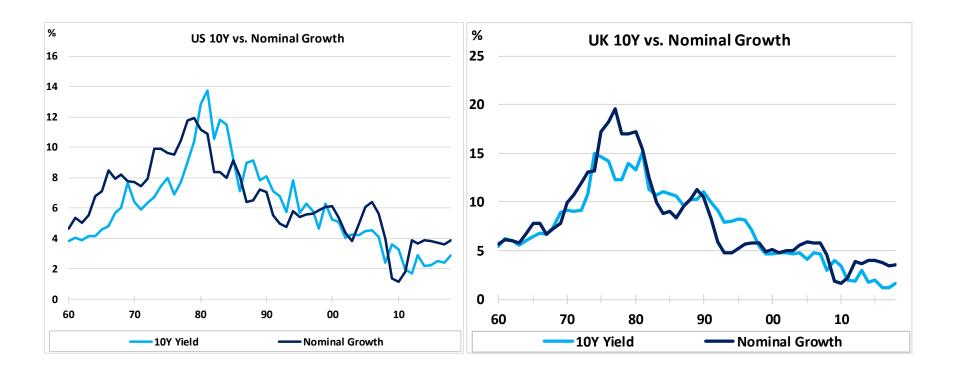
Widest spread since 1979





## Government bond yields and nominal GDP growth: US, UK

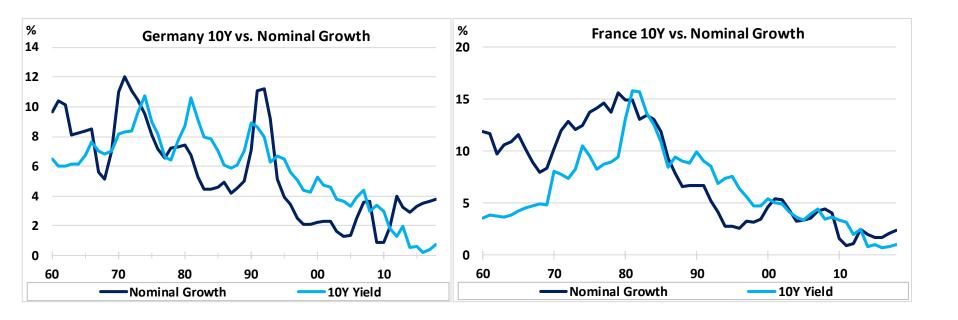
How confident that yields have adjusted?





## Bond yields and nominal GDP growth: Germany & France

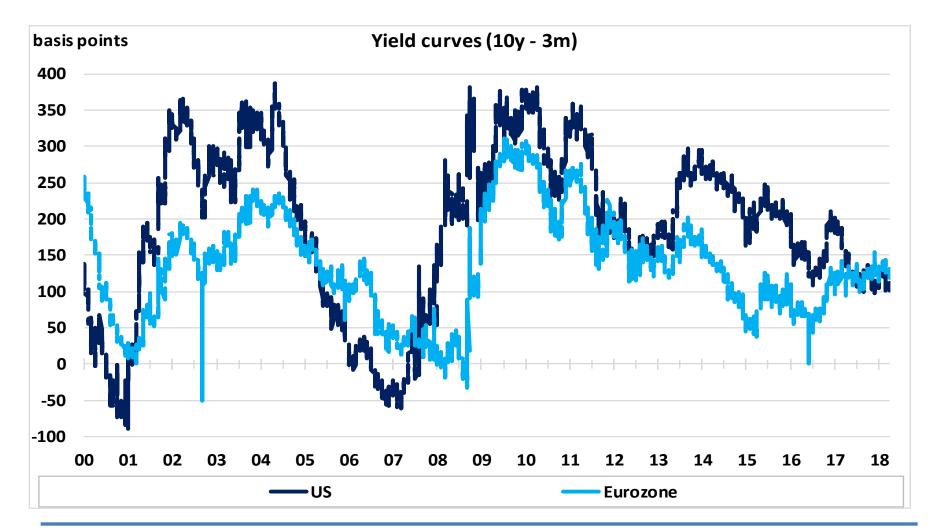
Waiting for the end of QE





## Market consensus believes 10y yields are capped!

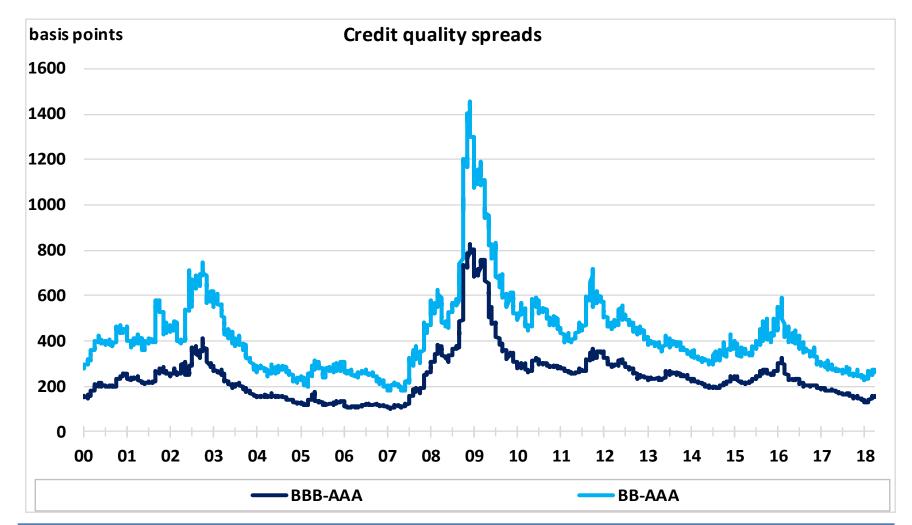
EZ to flatten, US to steepen?





## Credit spreads will feel the pinch from QT

The inklings of an end to spread tightening





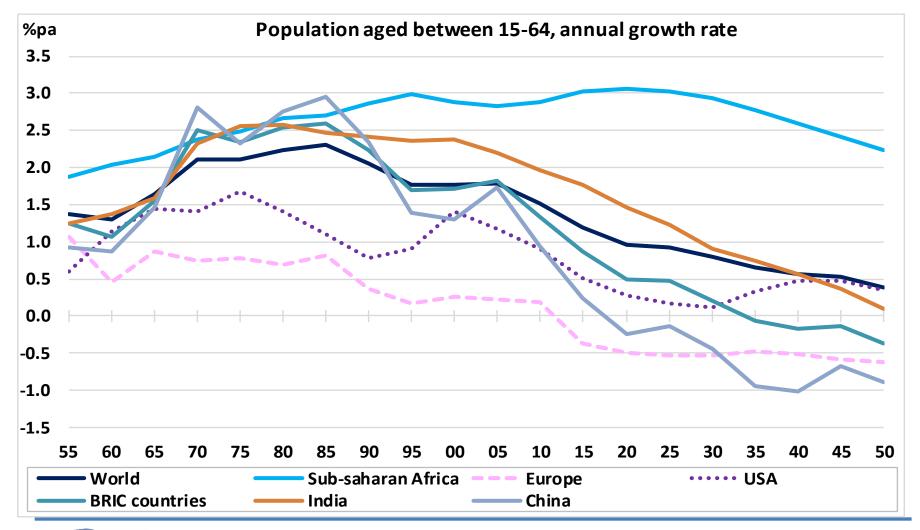
## Supply-side constraints are at work

- We're running out of working-age adults!
- The robots are coming but not fast enough
- The GFC has prompted a significant lengthening of asset lives of capital goods
- DMs have lost interest in maintaining the "dull and boring" economic infrastructure – and have no idea how to finance it
- Capex drought in energy and natural resources bodes ill for supply capabilities
- Increasing market dominance restricts supply



## Supply-side obstacles: slowing working-age population

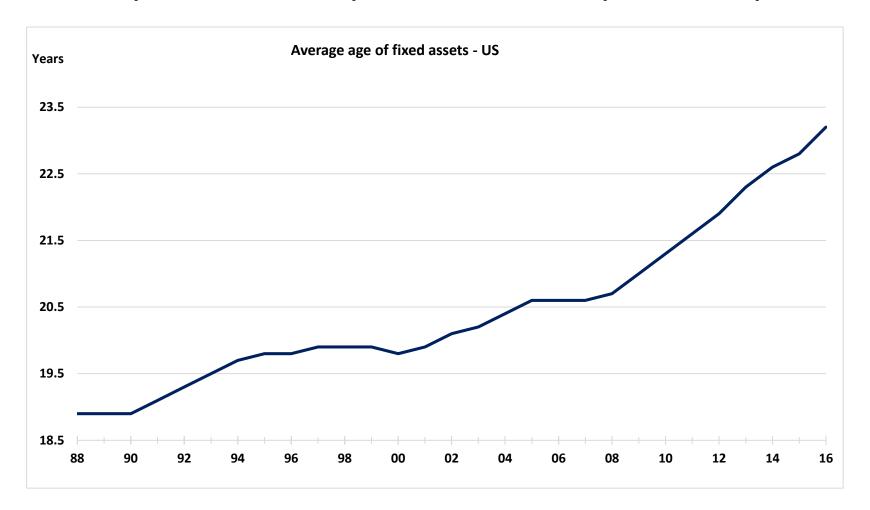
Bring on those robots!





## Supply-side obstacles: physical capital is aging

US experience is replicated in Europe and Japan

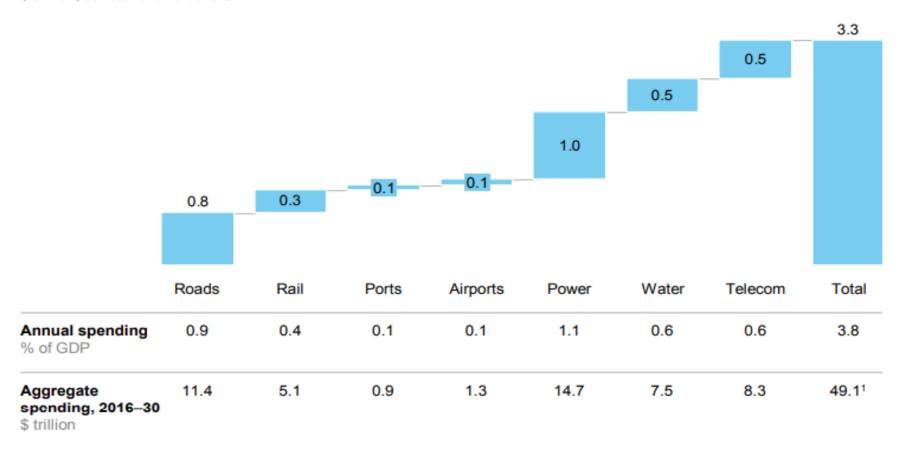




## Supply-side obstacles: failing to renew infrastructure

The world needs to invest \$3.3 trillion in economic infrastructure annually through 2030 to keep pace with projected growth

Average annual need, 2016–30 \$ trillion, constant 2015 dollars

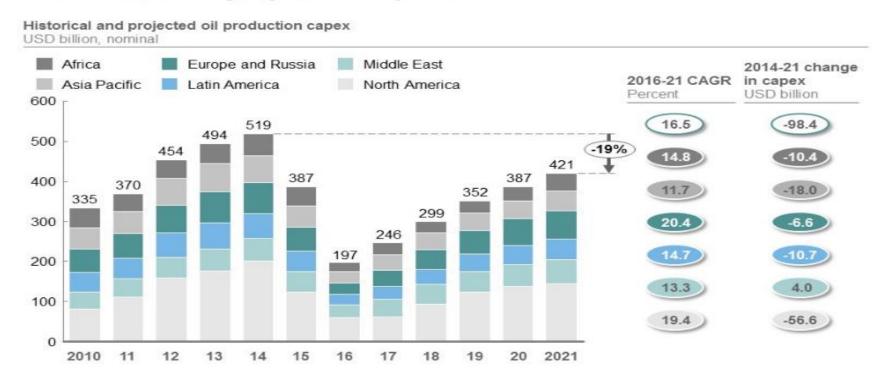




## Supply-side obstacles: still reeling from oil price plunge

## Global energy investment has plunged

Oil production capex<sup>1</sup> is projected to grow by 16% through 2021 driven by rebound in the Americas, but stay depressed compared to 2014



1 Includes capital spending in oil development and production, both greenfield and brownfield, excludes exploration spending

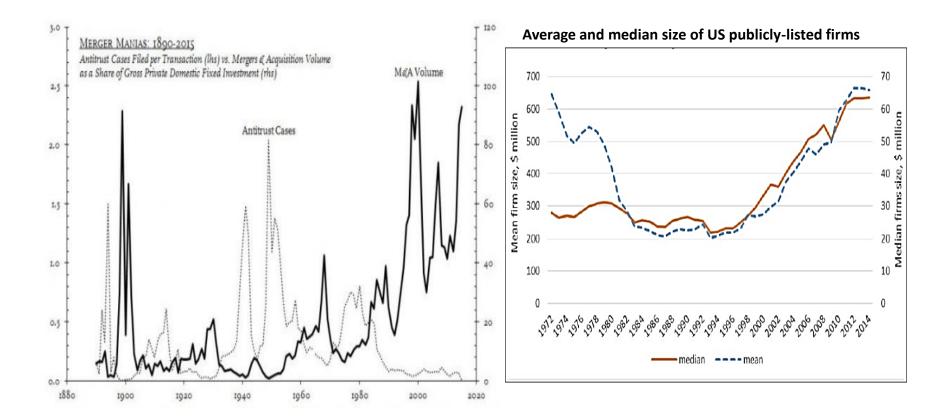
SOURCE: McKinsey Energy Insight's Global Liquids and North American supply models, Rystad Energy





## Supply-side obstacles: rising industrial concentration

• The number of US listed firms has dropped by more than half, from 7,322 in 1996 to roughly 3,200. Grullon et al. (2017) study the increase in concentration in the US across most industries over the past two decades, which has had a positive implication to firm performance in terms of profitability, innovation and returns to investors (RoA, market reaction to M&A announcements or abnormal stock returns).



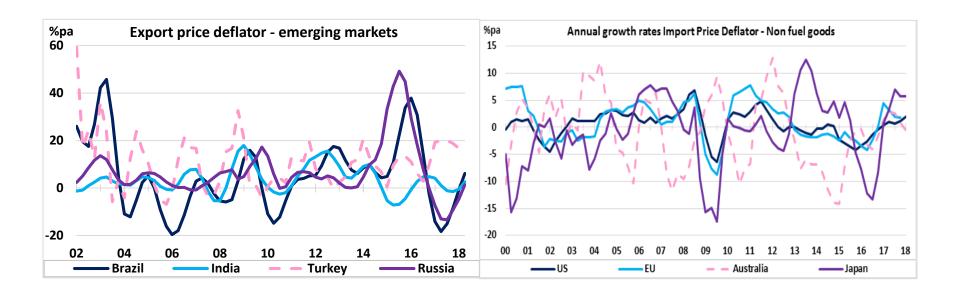
## The multifaceted inflationary process

- Global supply chains are laden with higher EM inflation: showing up as increasing import price inflation in DM
- DM labour market overheating is materialising as faster wage inflation – at last
- Increasing pressures for fiscal relaxation
- Industrial commodity prices reacting to stronger nominal demand and supply bottlenecks
- Food and energy are inflation wild cards



## Supply chain inflation pressures

EM inflation transmitted to DM via export prices





## Labour market overheating almost everywhere

## Significant headwinds, but some wage acceleration

		Employment level	Av weekly hours	Total hours	Nominal wages	Real wages	Vacancy ratio*	Skills shortages*
USA	growth							
	acceleration							
UK	growth							
	acceleration							
Germany	growth							
	acceleration							
China	growth		Х	Х			×	
	acceleration		х	х				
Japan	growth		x				×	
	acceleration		Х					
Eurozone	growth			х				
	acceleration			х				
Above average				Below average				
							Х	*
≤ 5%	5% ≤ 10%	10% ≤ 15%	70%	10% ≤ 15%	5% ≤ 10%	≤ 5%	no data	ratios

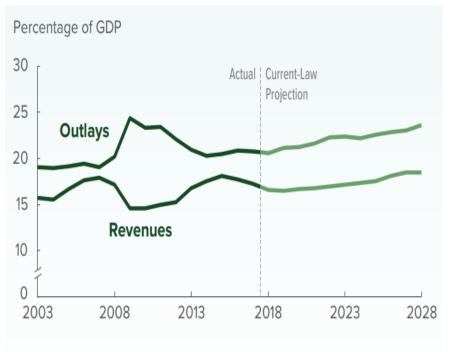
NB Heatmap uses the most recently available data point

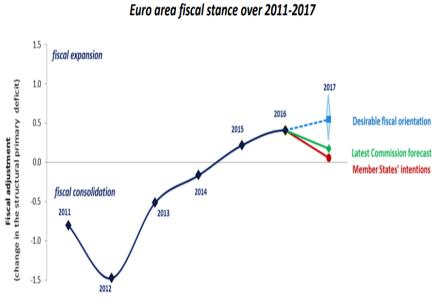


## US fiscal relaxation despite a structural deficit

Increasing pressure for EZ fiscal relaxation

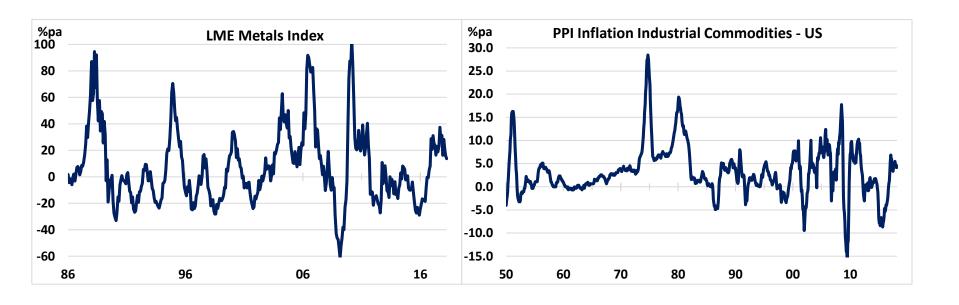
USA





## Industrial commodities – prices can also rise

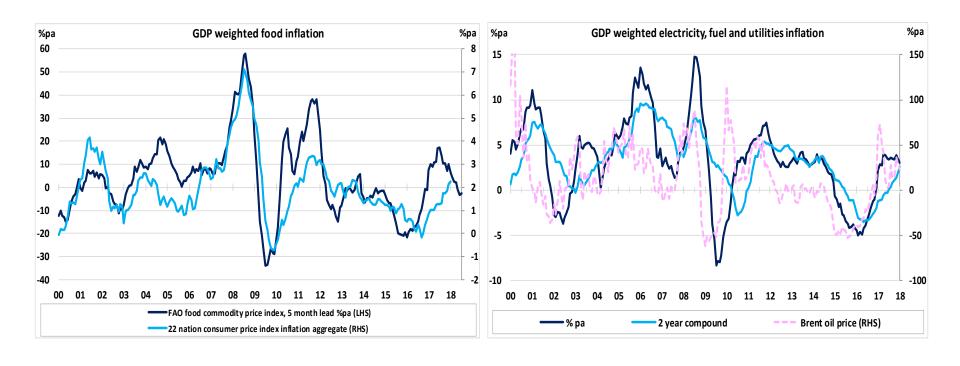
Still sceptical about China slowing





## Food and energy inflation is a wild card

Not the main event, but a disruptive influence





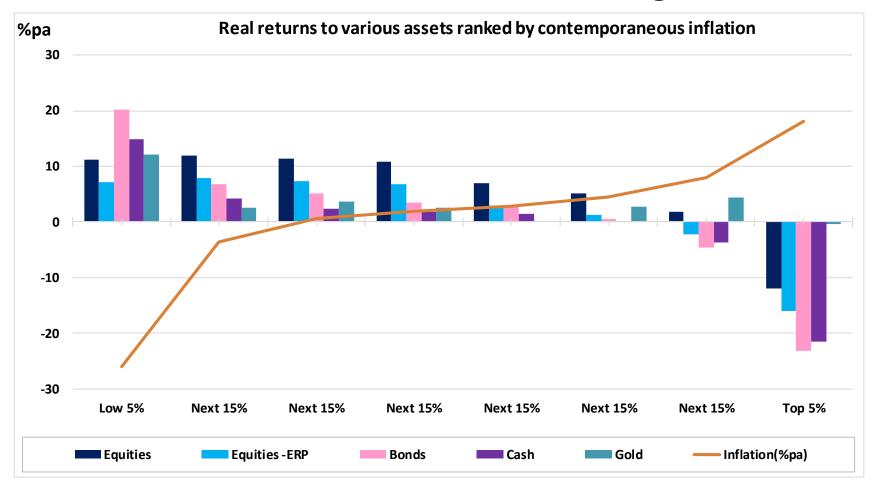
## Who cares about a Little Inflation?

- If it is (largely) unanticipated, then everyone should care
- Central banks have fostered false notions of precision in policy-making
- Inflation doesn't have a favourite number!
- Models gravitate to 2 per cent, but real life can wander
- Inflation is Kryptonite to fixed income investments
- Equities may suffer a cliff-edge correction if core inflation exceeds 3 per cent



## Bonds have the strongest (inverse) inflation correlation

Even a Little Inflation will wreak carnage



Source: Credit Suisse Global Investment Returns Yearbook, 2013

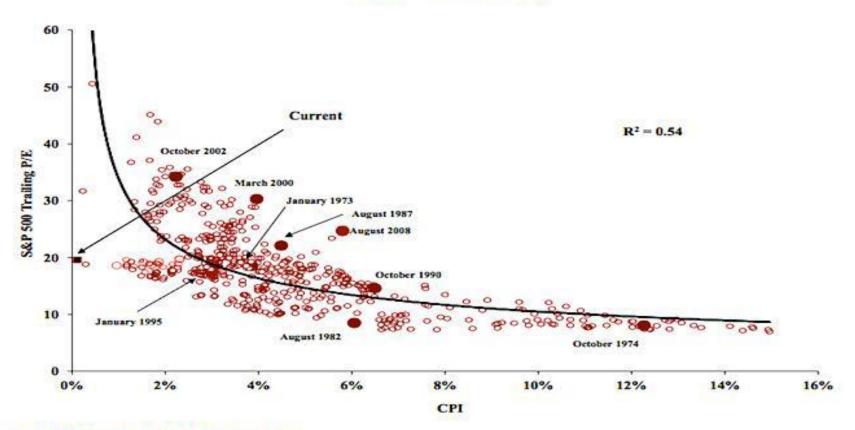


## Inflation and P/E: a negative non-linear relationship

The sting is in the tail

Inflation vs. P/E Model (1965 to Present)





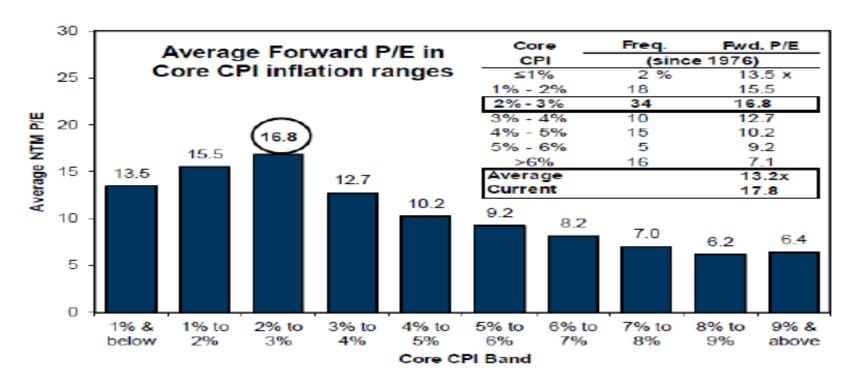
Source: BofA Merrill Lynch US Quantitative Strategy



## Forward-looking P/E versus US core CPI inflation

Mind the gap, above 3% core!

Exhibit 16: Average forward P/E given level of inflation as of April 18, 2017



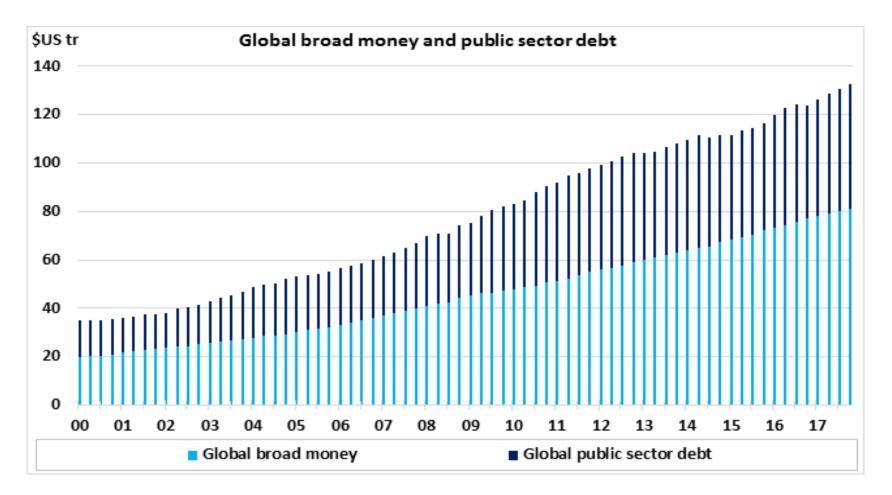
Source: Computstat, BLS, Goldman Sachs Global Investment Research



#### The Inflationists



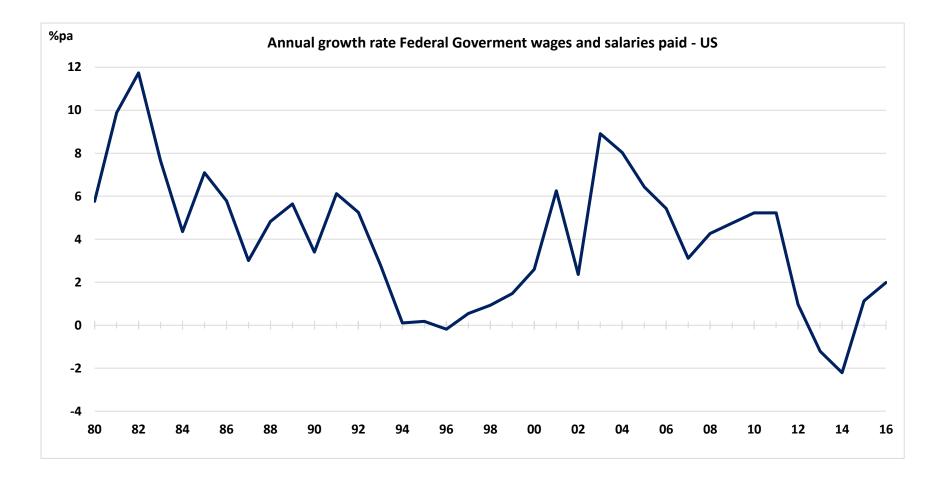
The risk of public debt monetisation



Data sources: CEIC, CIA, Thomson Reuters Datastream and national sources

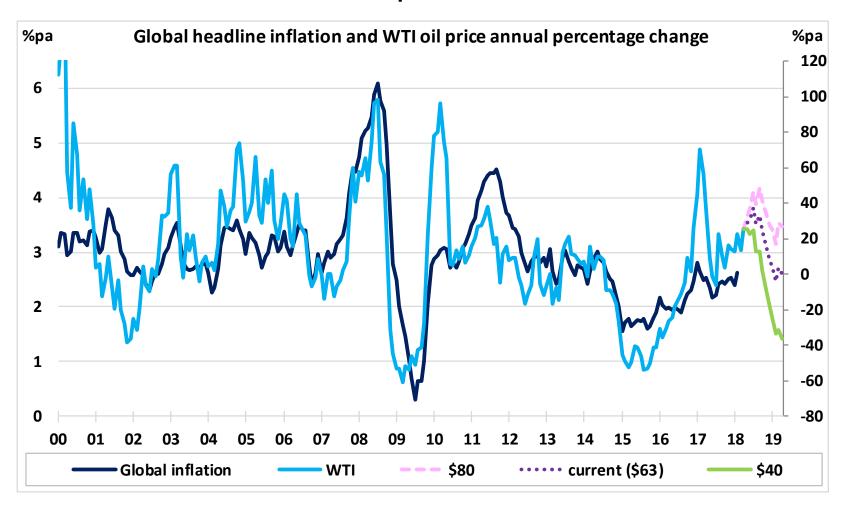


The risk of public sector-led pay acceleration





The risk of another oil price blowout





## Key messages

- We expect global inflation to keep rising over the next 12 months, but not by a huge amount
- It's a multifaceted inflation process, combining EM-to-DM supply chain pressures, tightening labour market pressures, fiscal relaxation and industrial commodity price inflation
- Supply constraints are also at work
- Nominal interest rates need to catch up to a faster nominal growth pace
- It's still a Little Inflation but it can take a Big Bite out of investment performance



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	Research Partnership Selections				
	Platinum	Gold	Silver		
Publications					
Our full publication library includes:					
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Global Inflation Perspective	✓	✓			
Global Credit Update	✓	✓			
Global Inflation Update	✓	✓			
UK Economic Perspective	✓	✓			
North America Economic Perspective	✓	✓			
Eurozone Economic Perspective	✓	✓			
Research Digest	✓	✓	✓		
Global Inflation Heatmaps	✓	✓			
GDP Heatmaps	✓	✓			
Research publication archive access	✓	✓			
Onsite meetings or conference calls	7 per year	3 per year			
Research Insight presentations	2 per year	1 per year	1 per year		
Private lunches with Dr Peter Warburton	✓	✓			
Response to ad-hoc requests	✓				
Seminar invitations	✓	✓	✓		
Bespoke Partnership Services	Available upon request				



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