

Increasing incidence of asset bubbles and financial crisis since the 1980s. A common link ?

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eabh Conference

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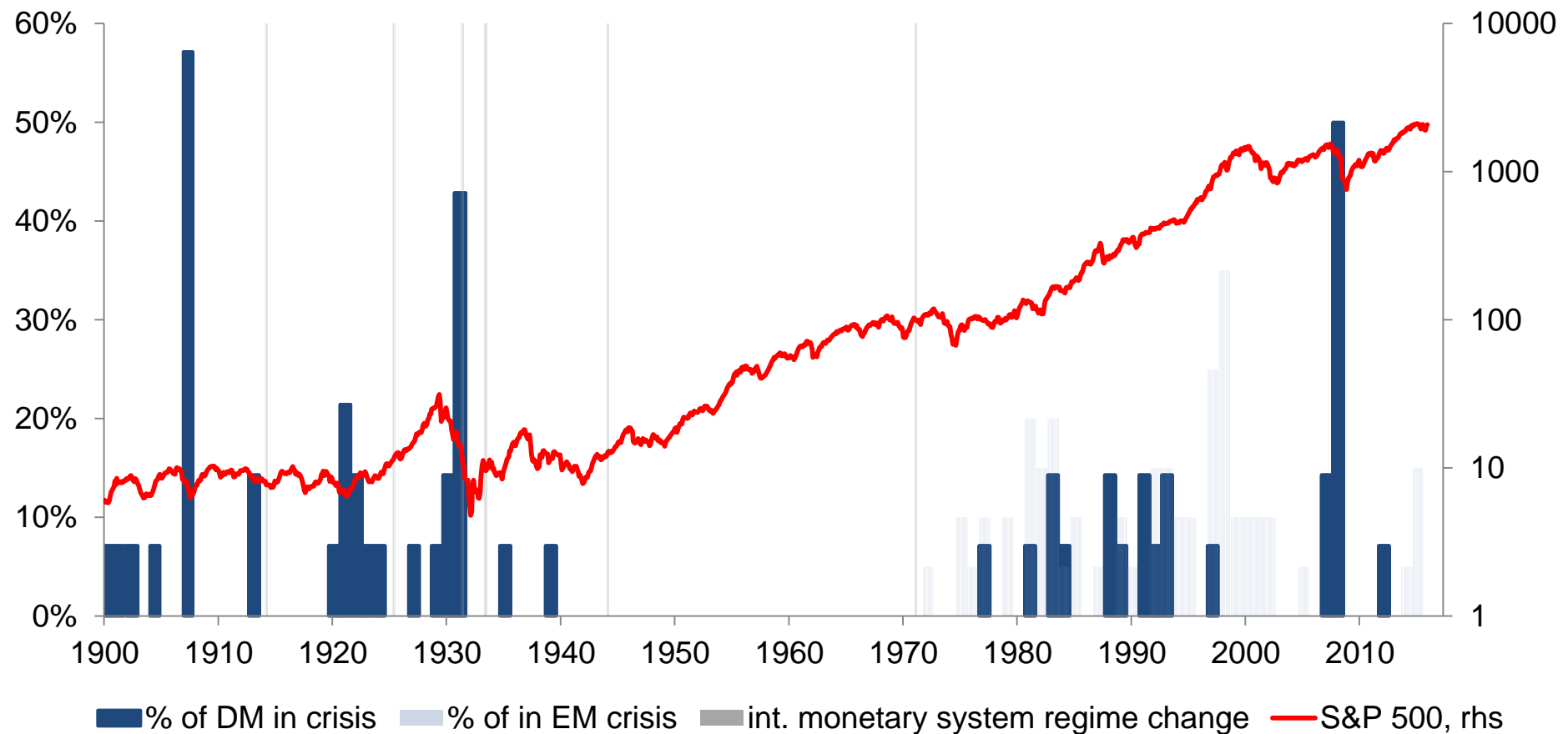
Allianz 
Global Investors

“The monetary history has been replete with financial crises. The pattern was that the rate of growth of credit increased and economic growth accelerated, and individuals began to invest for short-term capital gains”

Charles Kindleberger

Increasing incidence of financial crisis and asset bubbles since the end of Bretton-Woods

Share of countries in crisis since 1900

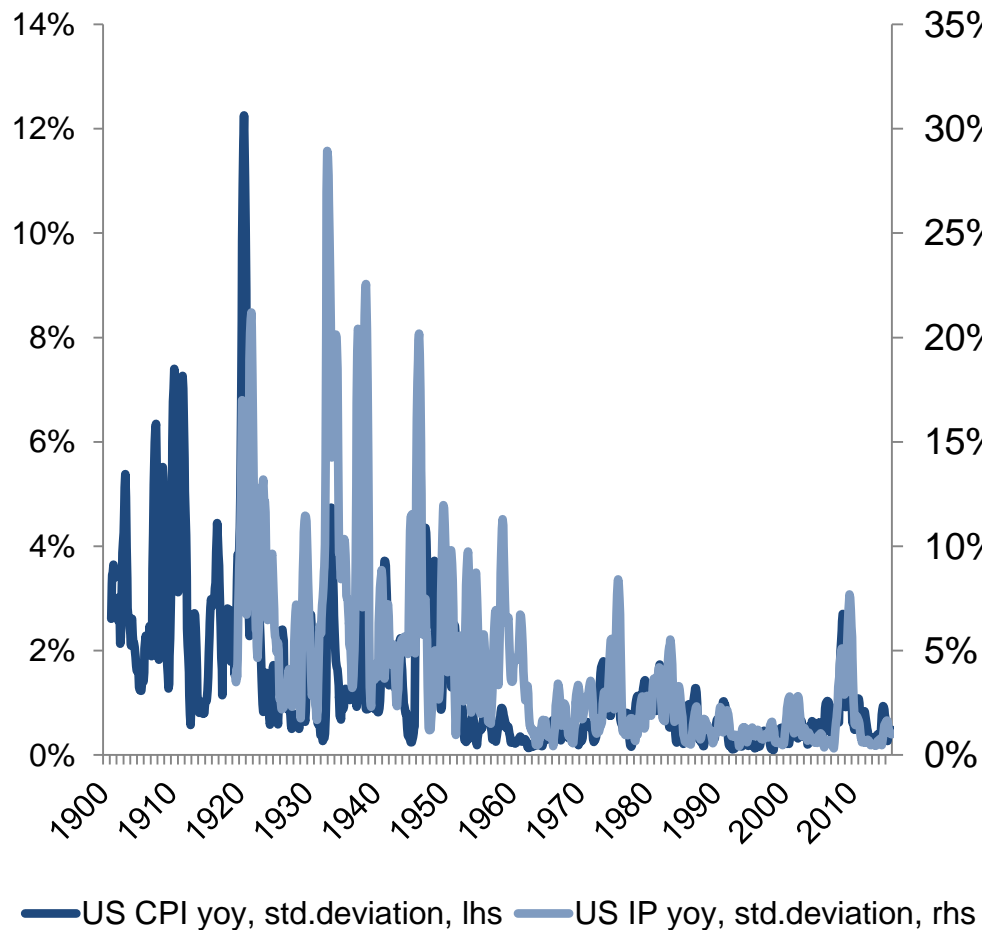


Source: AllianzGI, Datastream. M.Schularick and A.Taylor (2009): „Credit Booms Gone Bust: Monetary Policy, Leverage Cycles and Financial Crisis, 1870-2008“; L.Laeven and F.Valencia; IMF WP/08/224 „Systemic Banking Crisis Database“; definition of crisis years according to Schularick/Taylor (1900-2010) and Laeven/ Valencia (1970-2008) ; own estimates for years since 2008
DM: G7, Australia, Sweden, Norway, Denmark, Spain; EM: BRICS, Turkey, Poland, Hungary, Turkey, Israel, Kuwait, Hong Kong, Singapore, Thailand, Philippines, Indonesia, Korea, Malaysia, Mexico, Argentina, Chile; grey bars: 1914 WW1 related end of gold standard; 1925: UK returns to gold standard; early 1930s: UK and US off gold standard; 1944 Bretton Woods; 1971 collapse of Bretton Woods

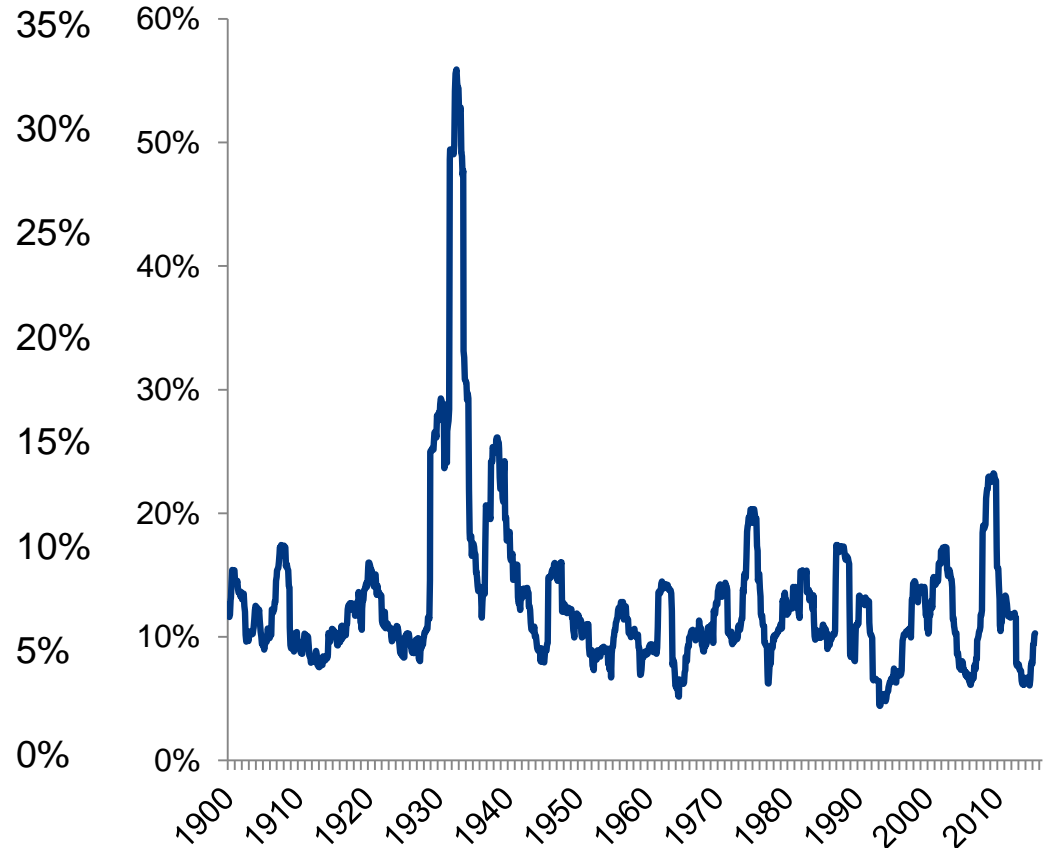
Has the world economy been too good to be true ?

Volatility of macro data and market prices has decreased since WW2, ...

Standard deviation of US CPI (yoy) IP (yoy)

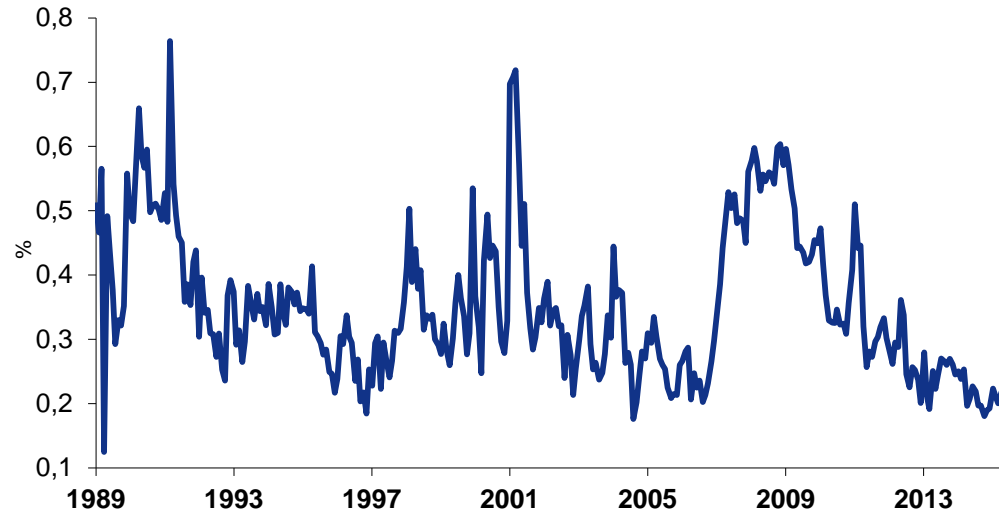


S&P 500 ex-post volatility

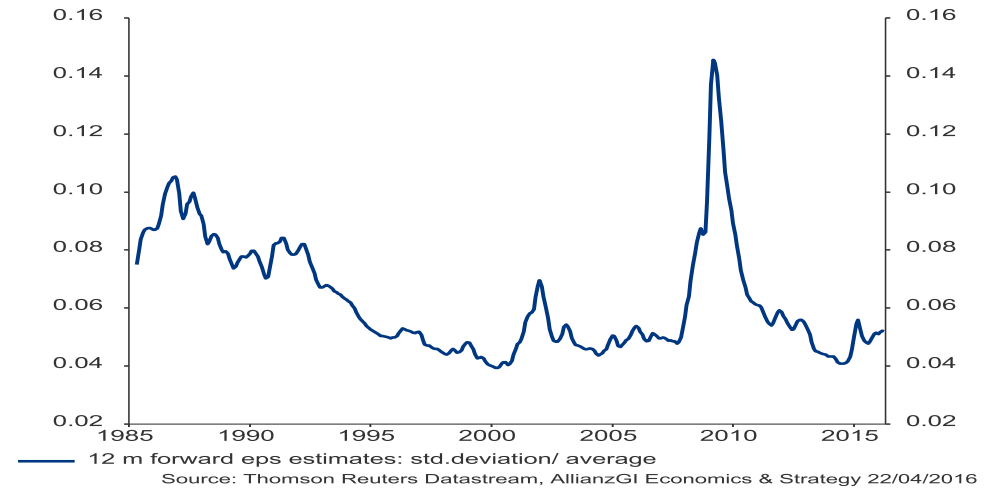


...so has the dispersion of economists' estimates since the 1980s.

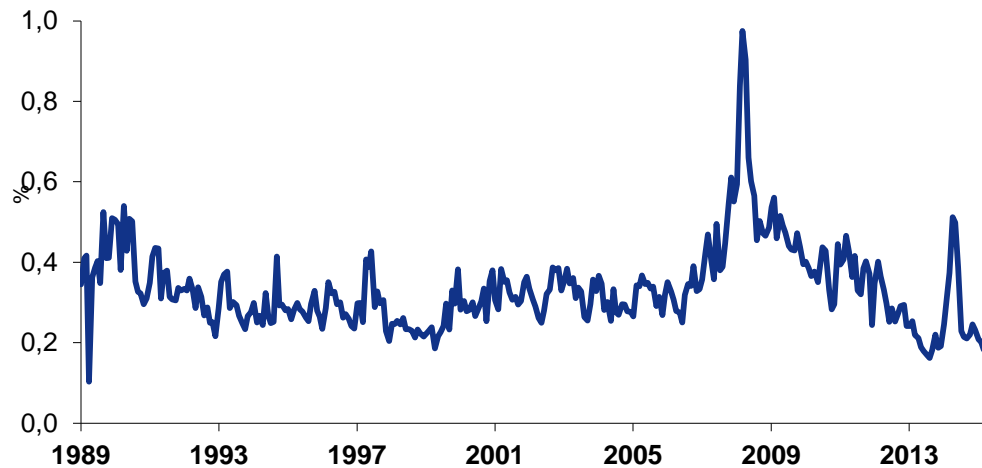
Standard deviation of US GDP (yoy) estimates



Coefficient of variation of S&P 500 eps estimates

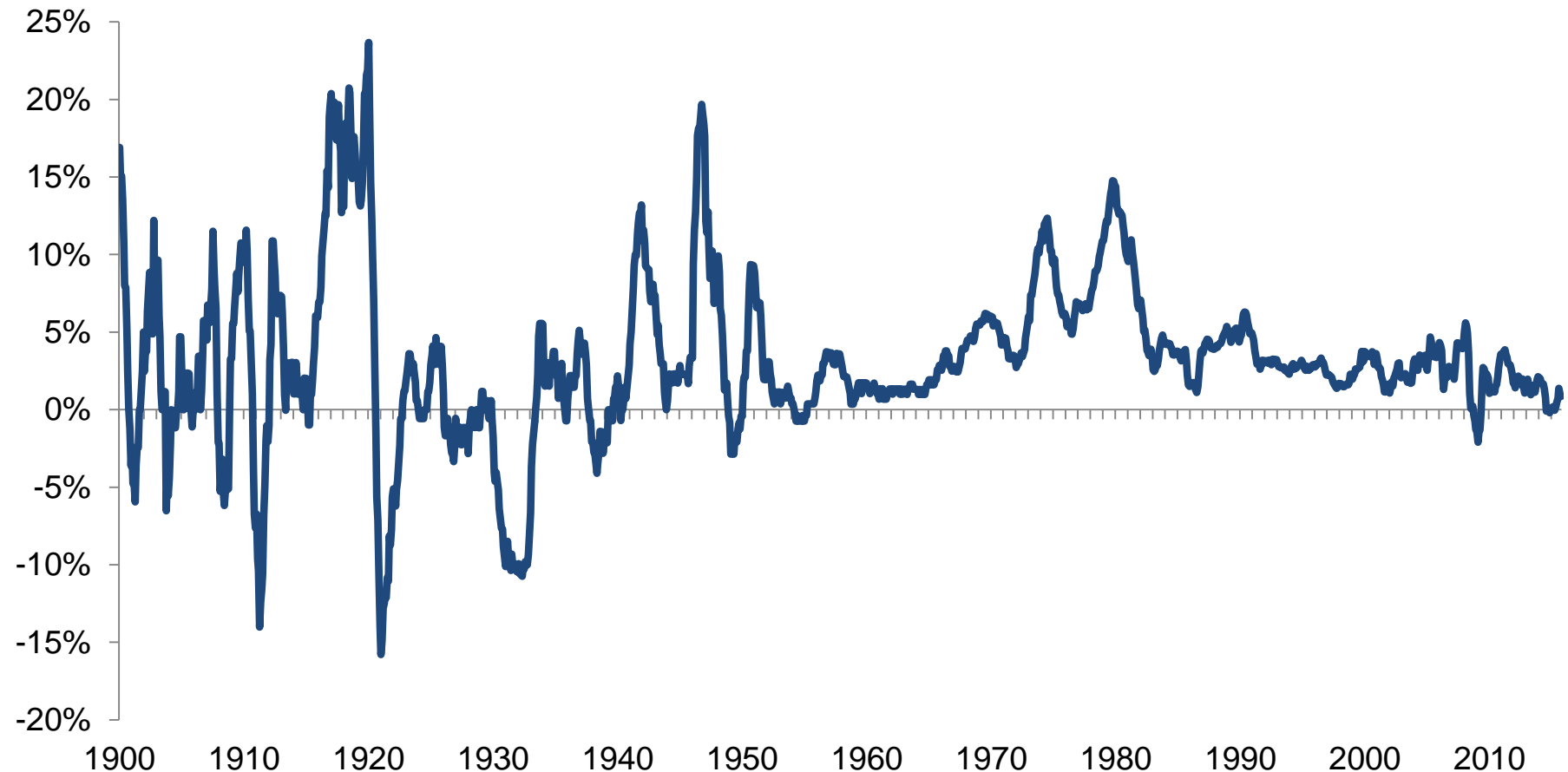


Standard deviation of US CPI (yoy) estimates



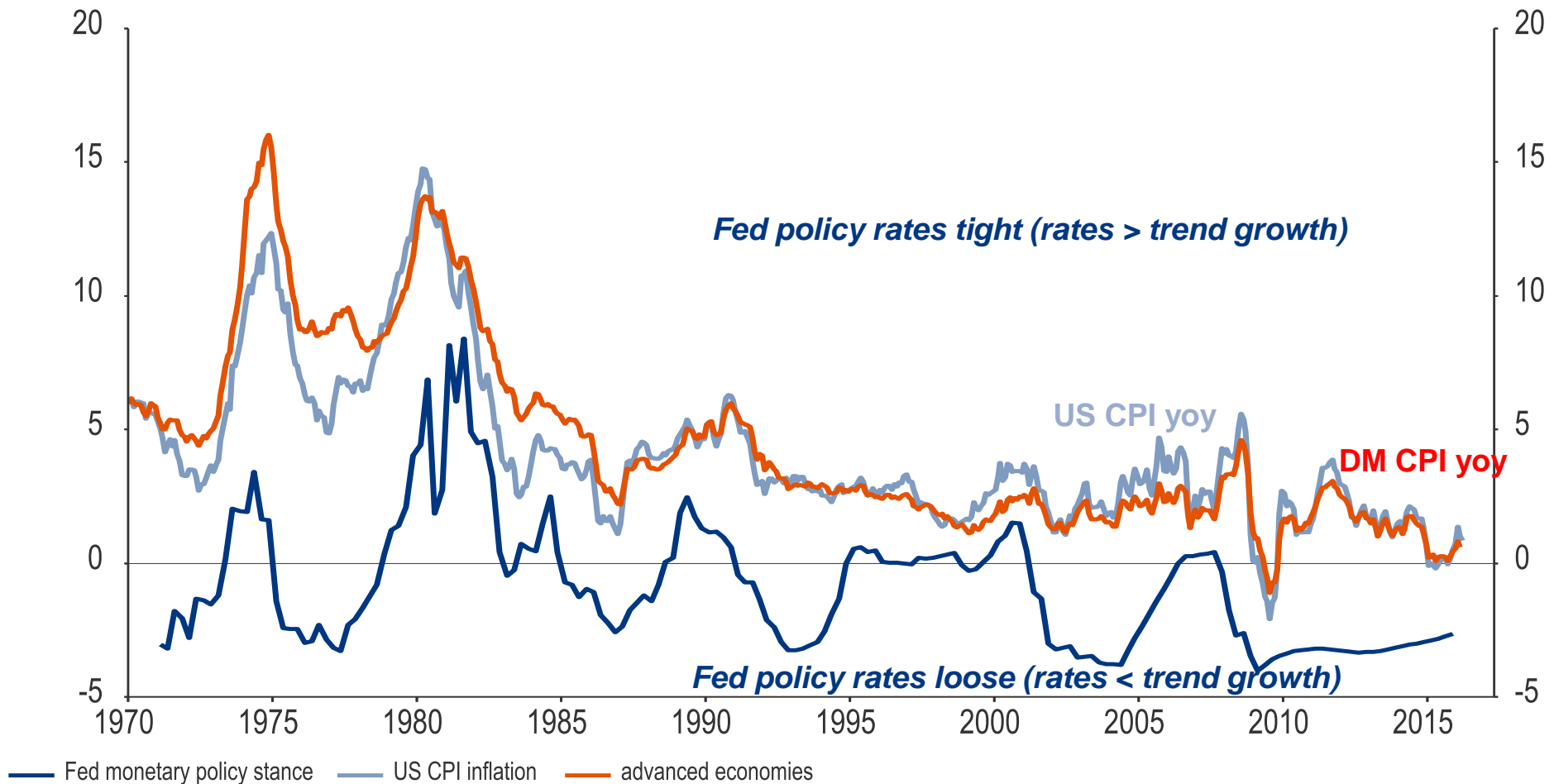
Inflation rates have declined since 1980.
Central banks have lived up to their mandate of price stability

US CPI (yoy)



Monetary policy has tended to be too loose since the mid 1980s, starting with the „Greenspan-Put“

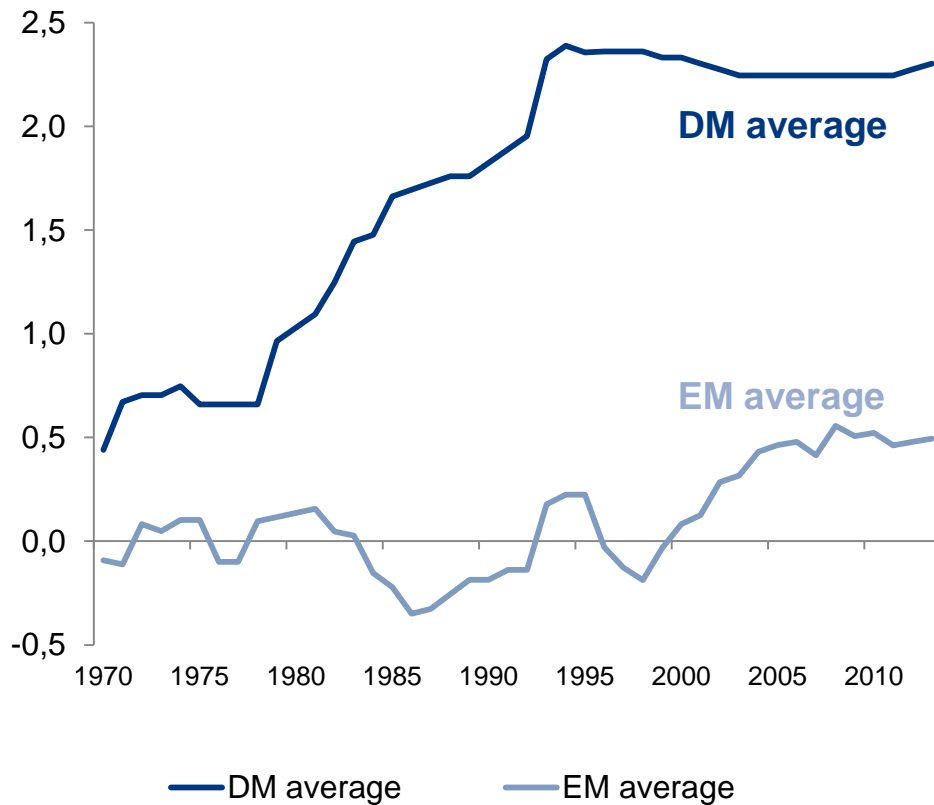
Estimate of Fed policy stance vs US and global developed economies CPI (yoy)



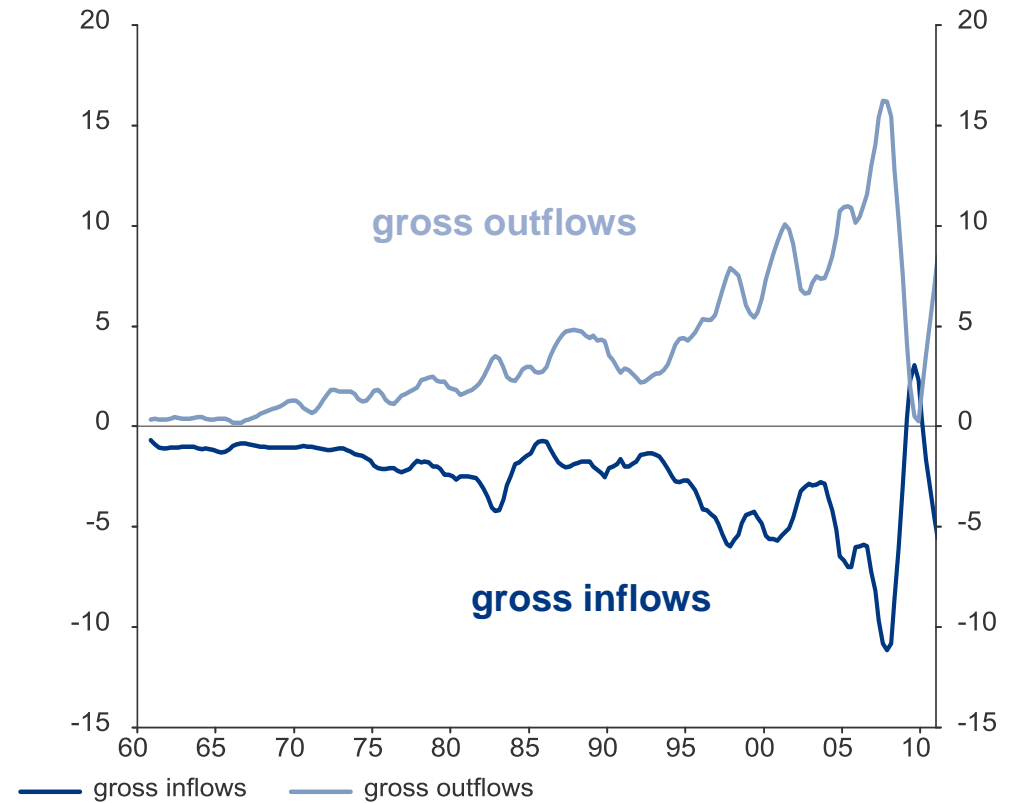
Source: Thomson Reuters Datastream, AllianzGI Economics & Strategy 22/04/2016

Easy monetary policy has been exported to the rest of the world and...

Chinn-Ito Index of capital account openness



US gross international capital flows in % of GDP



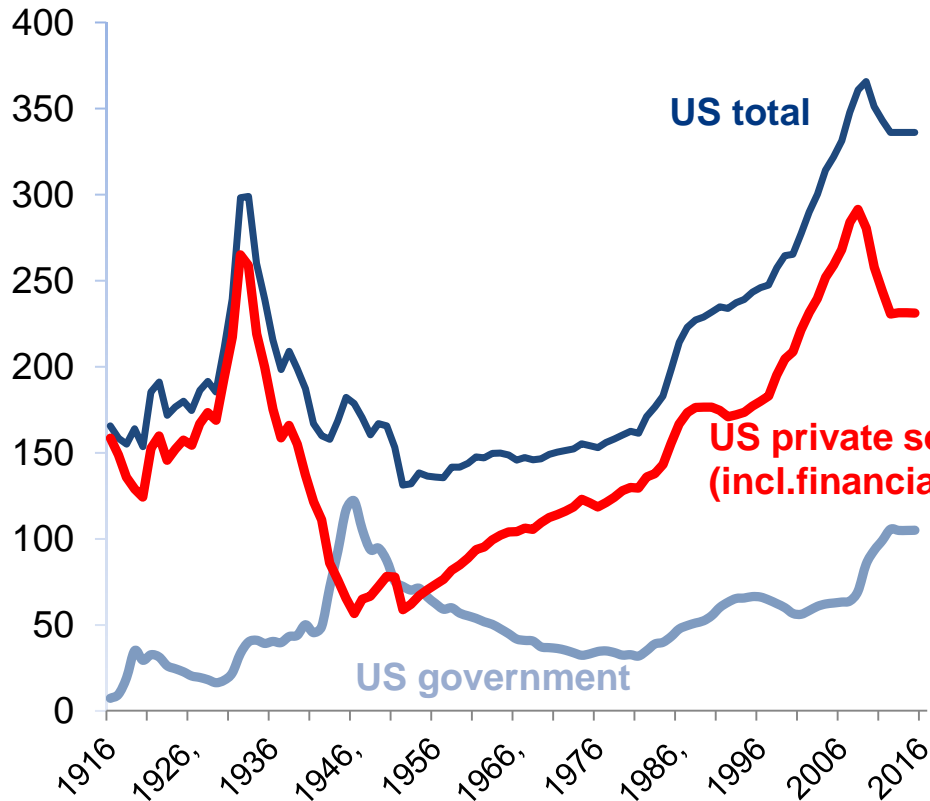
Source: Thomson Reuters Datastream, AllianzGI Economics & Strategy 22/04/2016

Source: Chinn-Ito, Allianz GI

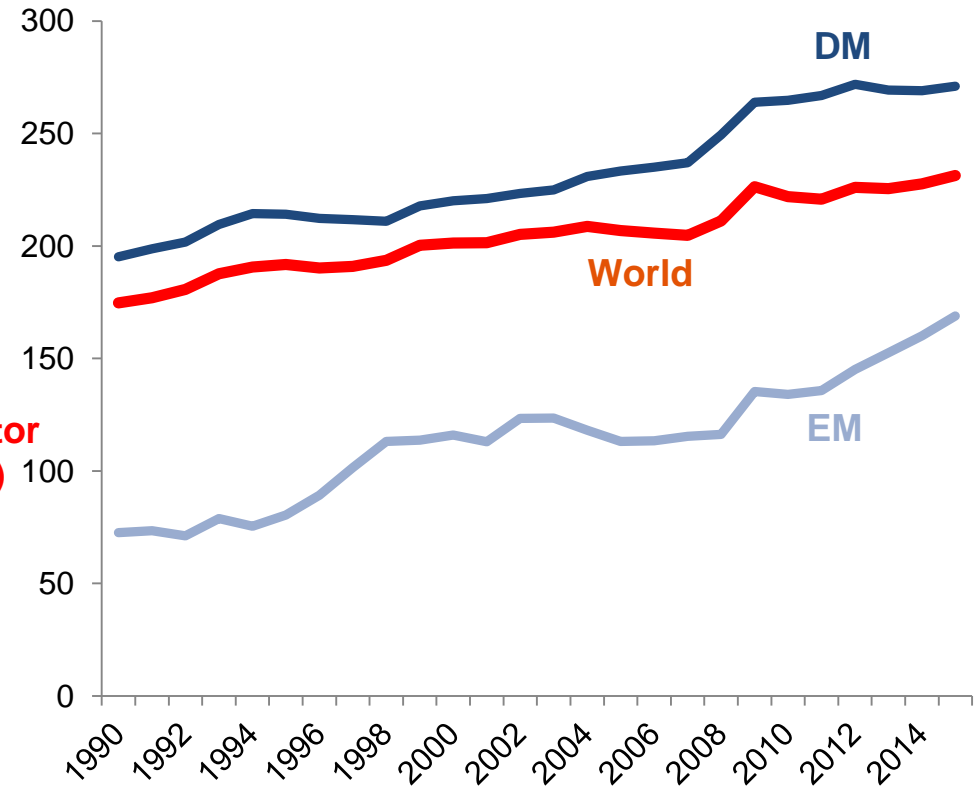
Legend: DM: G7, Australia, Switzerland; EM: BRICS, Hungary, Poland, Mexico, Saudi Arabia, Israel, Indonesia, Thailand, Korea, Singapore, Hong Kong; simple averages

...has been conducive to a sharp rise in leverage globally

US debt/ GDP in %

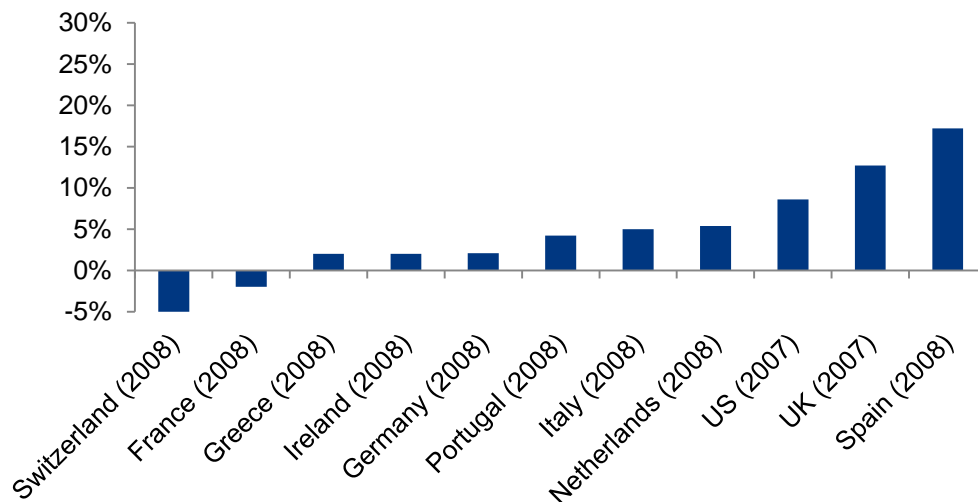


World non-financial public and private debt/GDP in %

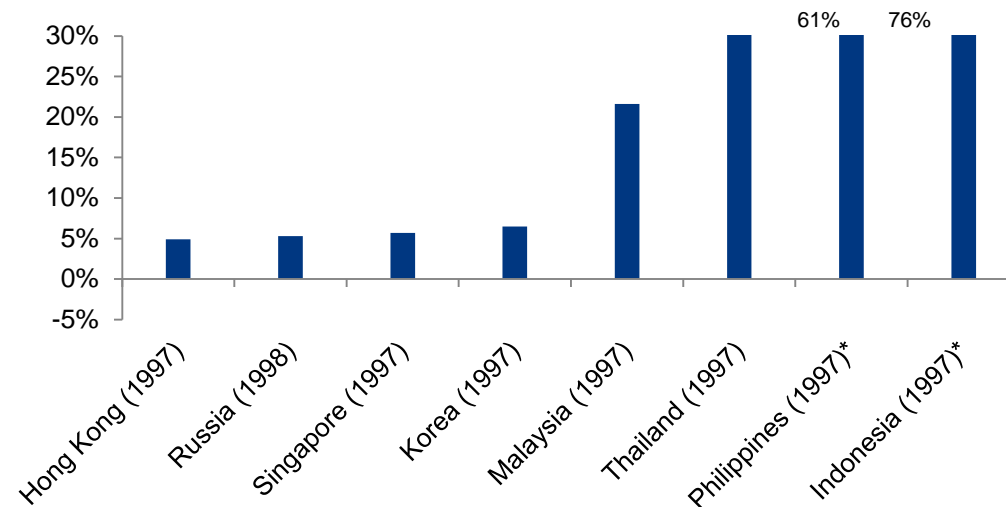


Credit gaps in % of GDP on the eve of a crisis since the 1980s

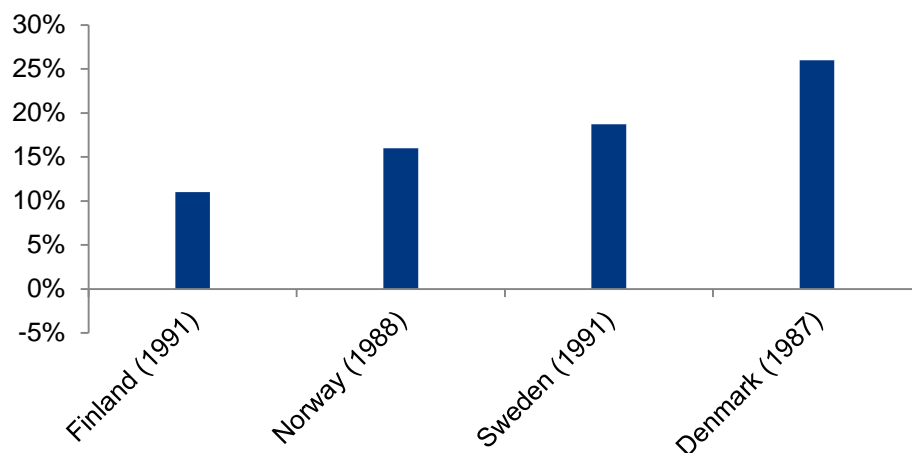
Global Financial Crisis (2007/08)



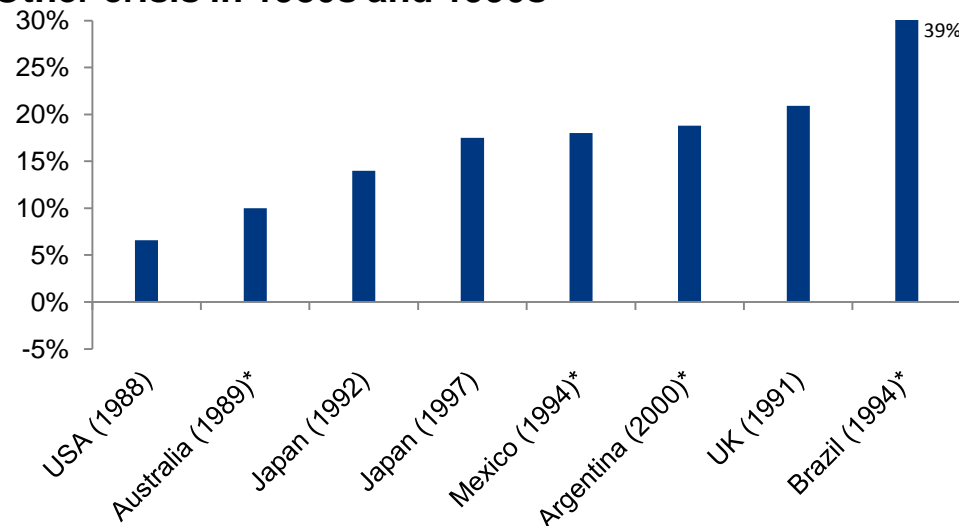
Asian/ EM crisis 1997/98



Nordic countries (late 1980s/early 1990s)

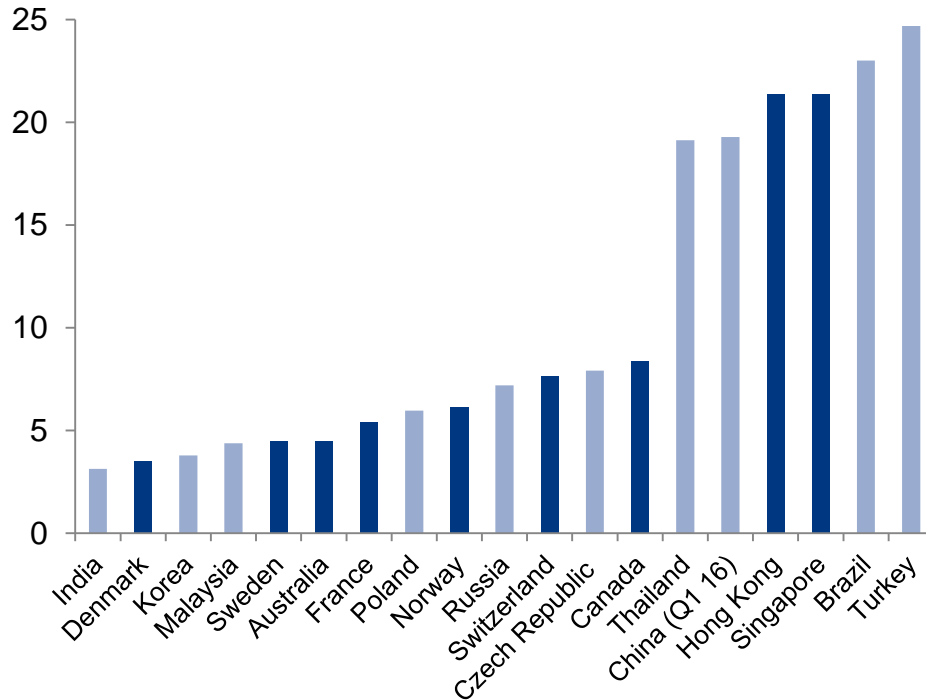


Other crisis in 1980s and 1990s

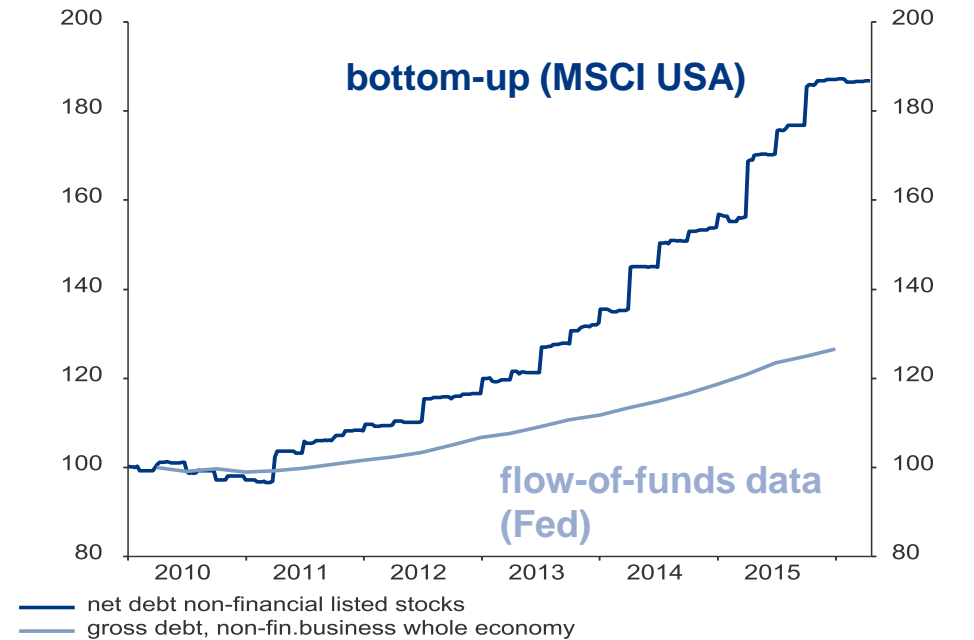


Credit gaps are wide in many countries also today

Private sector credit gap in % of GDP



Leverage US non-fin. corporate sector (2010=100)



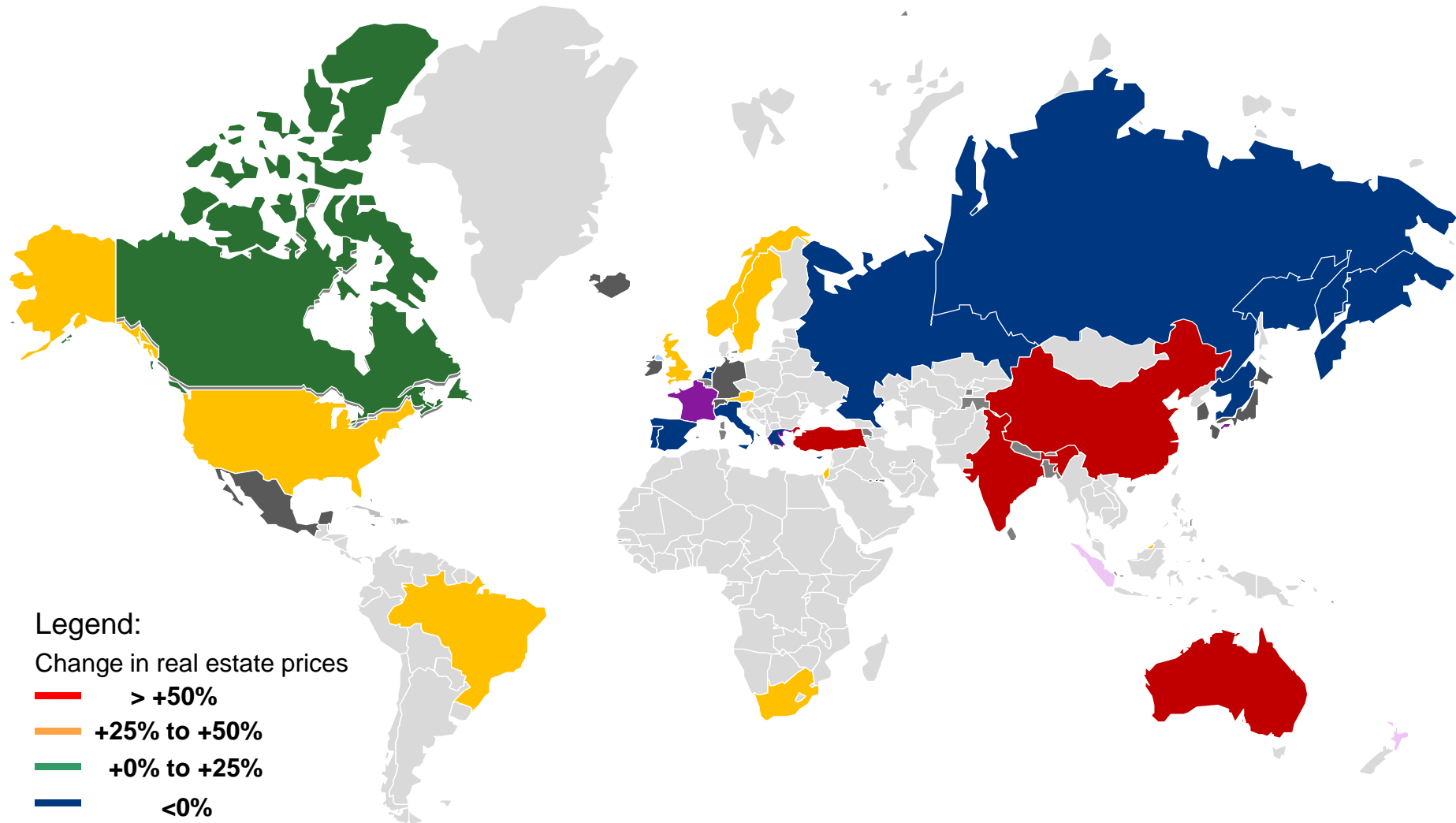
Source: Thomson Reuters Datastream, AllianzGI Economics & Strategy 22/04/2016

Source: BIS, AllianzGI. Trend calculation based on data starting in 1980 or later, depending on data availability; data as of Q3 2015, except for China (Q1 2016)

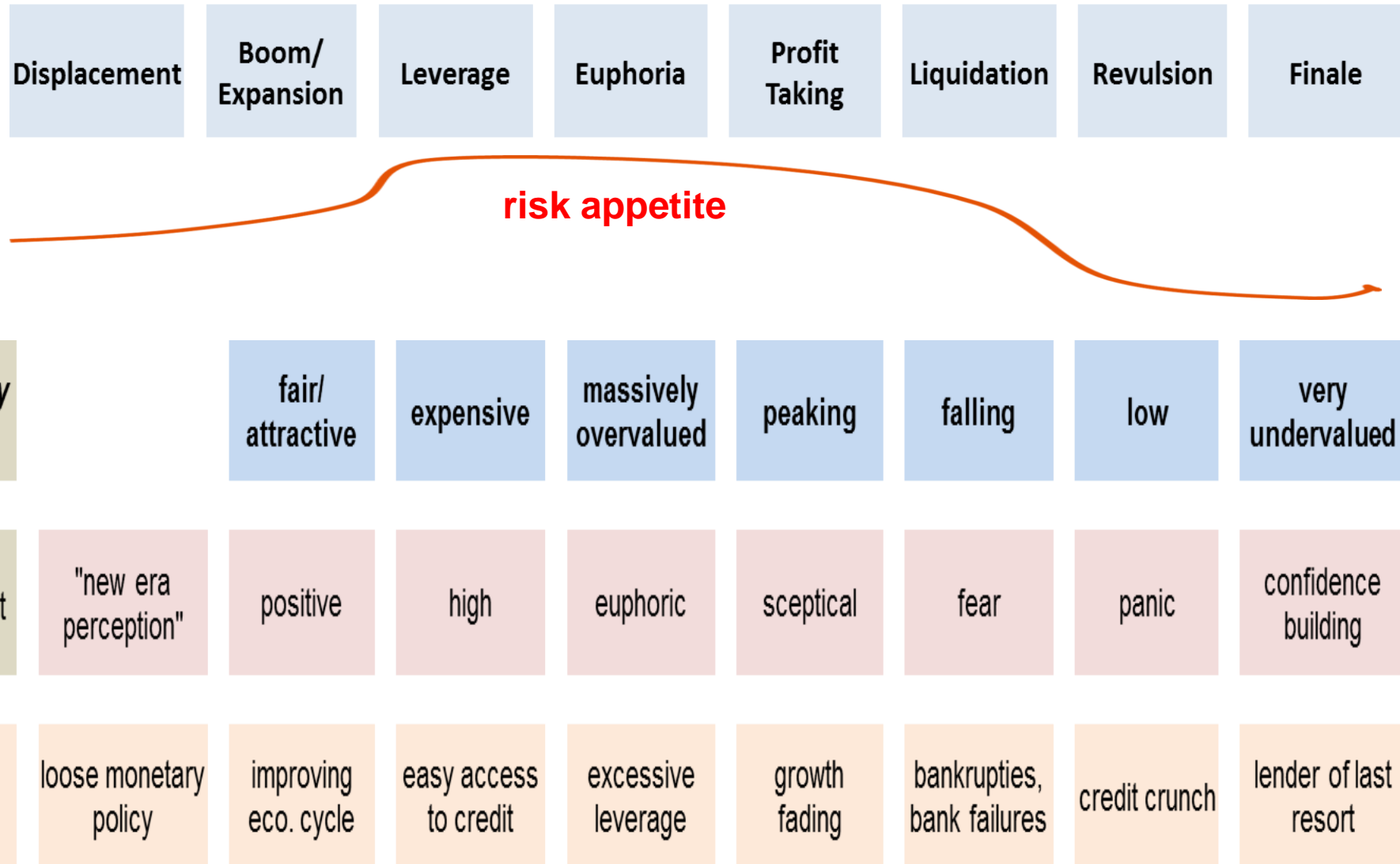
Legend: DM countries in dark blue, EM in light blue

Booming real estate markets explain the recent rise in leverage in many countries

Change in real estate prices between 2010 and 2015

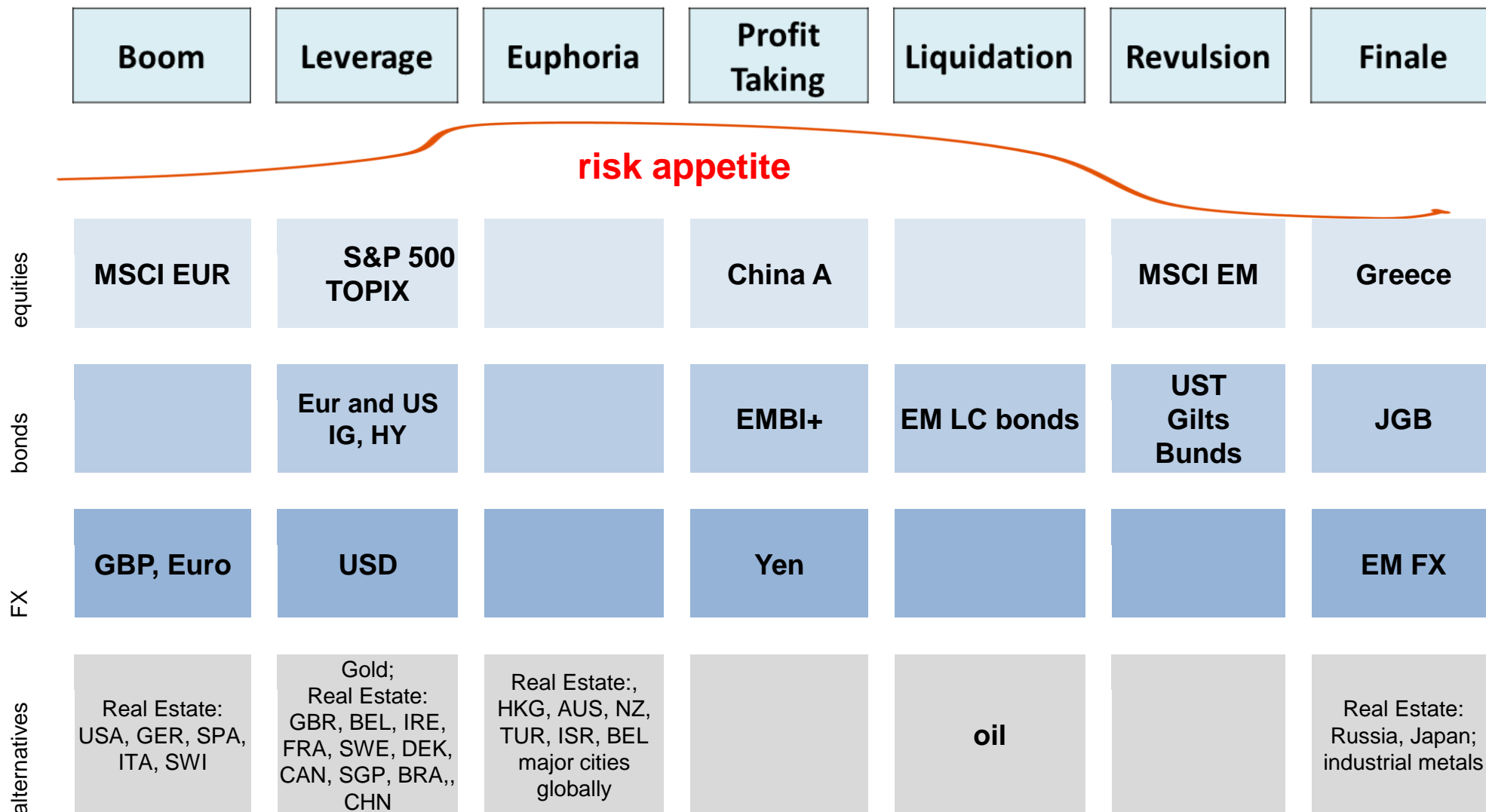


The Minsky/Kindleberger framework for asset price booms/ busts



Several asset markets are (red) hot again

Asset classes in a Minsky/ Kindleberger framework



Understand. Act.

- Increasing incidence of financial crisis, credit and asset bubbles since the end of BW
- Easy monetary policy, financial market deregulation, low vola in macro data and „displacements“ are at the roots of the crisis
- Rapid increase in private sector leverage – especially in combination with a booming real estate market - is an early warning signal for crisis
- Currently, we identify again excess private sector credit and expensive asset markets around the world
- Price stability and financial stability are interlinked
- ‚Leaning against the wind‘ and policy coordination may reduce the risk of crisis. Is macropru sufficient ?

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