

Navigating uncharted waters

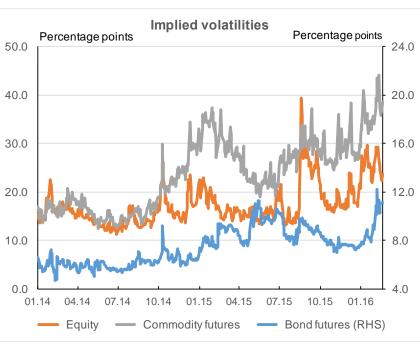
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13rd Annual Roundtable of Chief Risk Officers (ART of CROs)
"Risk Management beyond Solvency II"

14-15 April 2016, Copenhagen



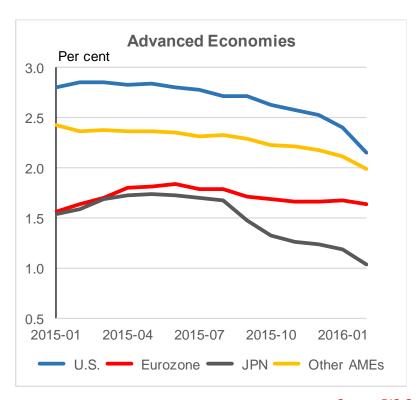


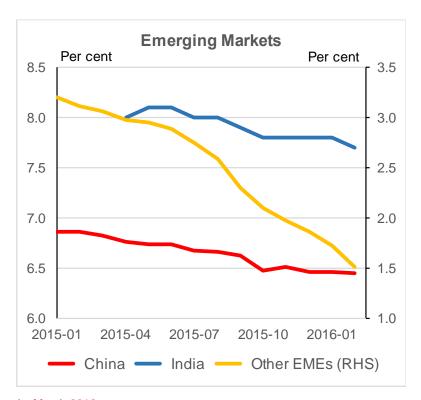


Source: Stock exchanges

➤ The worst beginning in two decades







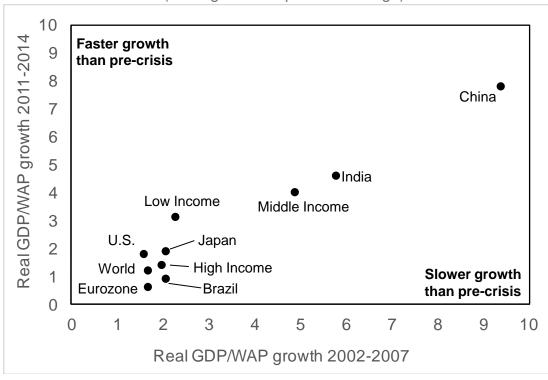
Source: BIS Quarterly, March 2016

Diminishing expectations across the board



Real GDP per working age population; pre- vs. post crisis





Source: World Development Indicators

➤ Central banks have lost their lustre (but monetary policy is no panacea)



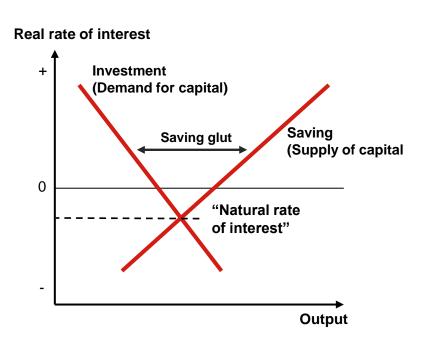
- What is mere trend?
- What is cyclical?
- What is structural?

- An eclectic framework
- Six leading paradigms
- Reach and relevance
- Implications for insurance



Leading proponents: Lawrence Summers (2016), "The Age of Secular Stagnation"

Ben Bernanke (2005), "The global saving glut and the U.S. current account deficit"



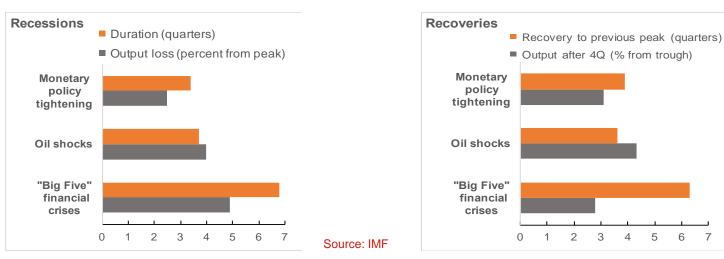
Economic and policy implications

- Protracted stagnation
- Protracted low interest rate environment
- Policy pressure on exchange rates
- Growing protectionism

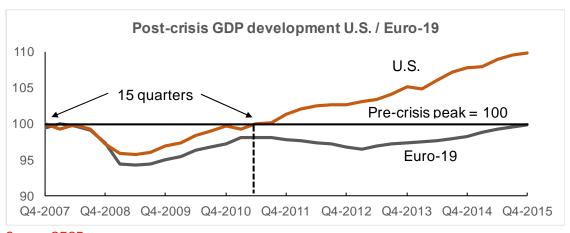
- Subdued growth in life and non-life
- Declining investment income and
- Pressure to search for yield
- Erosion of profitability (mainly life)
- And growing solvency challenges
- Hail "Mary Passes" into EMEs



Leading proponents: Carmen Reinhart and Kenneth Rogoff (2009), "This time is different"

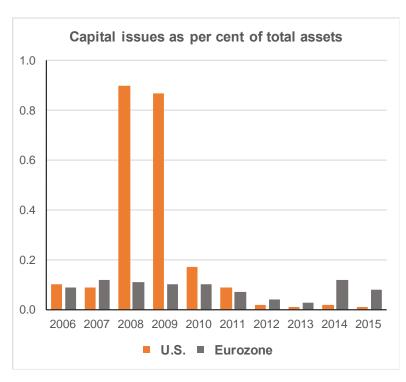


"Big Five": Finland (1990-93), Japan (1993), Norway (1988), Spain (1978-79), Sweden (1990-93)



Source: OECD





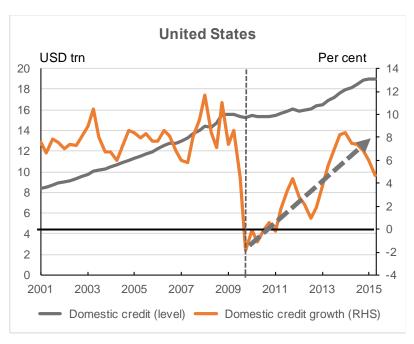
Non-performing loan ratios in selected EU countries Per cent 18 15 12 9 Full sample (5.6%) 6 3 ITA **ESP** BEL FRA LUX GER NED GBR SWE

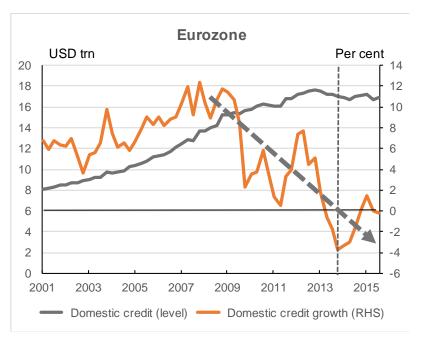
Source: ECB, Thomson Reuters

Source: BIS Quarterly March 2016

➤ European banks are ill prepared to cope with financial headwinds







Source: BIS Quarterly March 2016

- ➤ Eurozone banks penalised with six-year handicap
- ➤ Adverse consequences for the economic recovery



Economic and policy implications

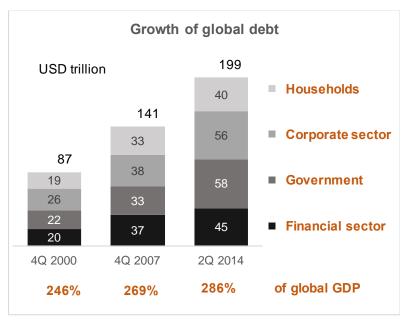
- Distressed financial intermediation
- Fragile zombie banks
- Costly rights issues
- Protracted low interest rate environment
- Subdued economic growth (mainly Eurozone)

- Subdued growth prospects for life and non-life and
- Pressure on European insurers to expand geography
- Declining investment income
- Erosion of profitability and solvency pressure
- Zombie insurers?



Leading proponents: BIS research department

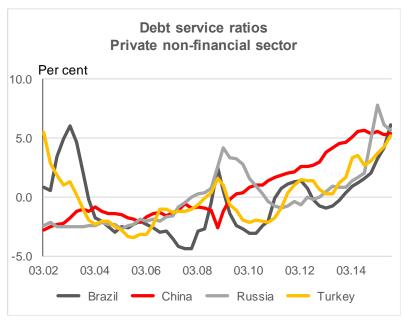
If debt was the problem...



Source: McKinsey

- ➤ Will debt be monetised?
- ➤ Will sovereigns default?

...will more debt be the solution?



Source: BIS Quarterly March 2016



Economic and policy implications

- Continued financial market volatility in AMEs and EMEs
- New bubbles (mainly in EMEs)
- Growing financial crisis potential in EMEs and Eurozone
- Risk of run-away inflation
- Regulatory over-stretch

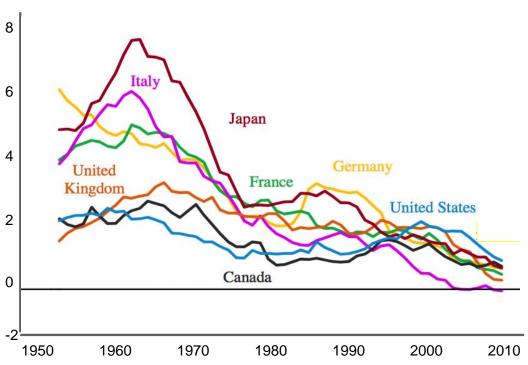
- Challenge for investment management
- Risk of double hit (mainly life)
- Risk of financial market induced regulation



Leading proponent: Robert J. Gordon (2016), "The Rise and Fall of American Growth"

Labour productivity growth 1955-2010

10-year centred moving average of annual per cent growth in output/hour



Economic and policy implications

- Low income growth; mainly in AMEs
- Protracted low interest rates
- Fear of globalisation
- Growing protectionism

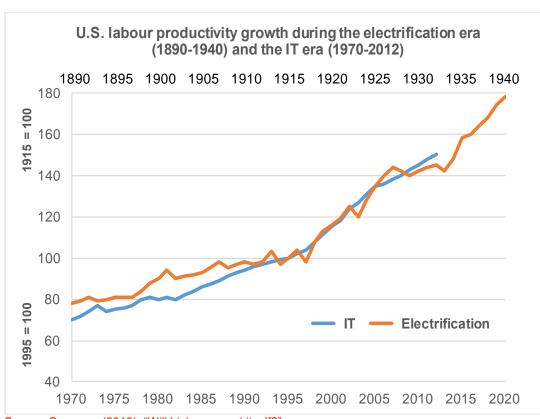
Implications for insurance

- Subdued demand in AMEs
- Declining investment income and
- Erosion of profitability (mainly life)
- Global business models at risk

Source: Council of Economic Advisers, Annual Report 2016



Leading proponents: Erik Brynjolfsson and Andrew McAfee (2014), "The Second Machine Age" Klaus Schwab (2016), "The Fourth Industrial Revolution"



Source: Syverson (2013), "Will history repeat itself?"

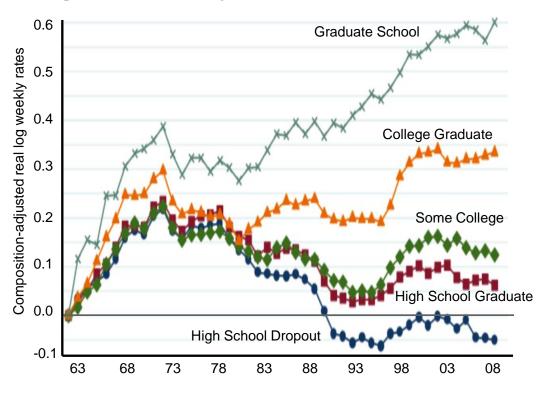
Economic and policy implications

- Golden Age of growth ahead
- Faster income growth for some
- Divisive IT gaps across the world

- New bundling of financial services
- Traditional business models at risk
- New competitors at the horizon
- Margin pressure, mainly non-life
- Growing demand for new solutions
- Costly and risky IT investments



Wages for full-time, full-year male U.S. workers, 1963-2008



Economic and policy implications

- War for talent
- Skewed income distribution leads to politics of redistribution
- Fear of globalisation
- Political backlash for centre parties

Implications for insurance

 Challenge for global business models

Source: Açemoglu and Autor (2010), "Skills, tasks, and technologies"





Putin, Vladimir

"Politics must take precedence over economics"

V.I. Lenin



Erdogan,Recep Tayyip



Le Pen, Marine



Orban, Viktor



Trump, Donald

Economic and policy implications

- Confrontation over political cooperation
- Political fundamentalism and nationalism
- Protectionism; anti-migration
- Sceptical view of multilateralism (Brexit)
- Fear of, and backlash to, globalisation

- Growth retarding if implemented
- Global business models at risk



Leading paradigm	Key driver(s)	Economic impact	Relevance	Impact on insurance
Secular stagnation	Excess savings	Stagnation	Many AMEs	 Subdued demand for L and NL Declining investment income and erosion of profitability
Wake of global financial crisis	Weak banks; Deleveraging cont.	Stagnation; Banking crisis	Mainly Europe	 Subdued demand for L and NL Declining investment income and erosion of profitability
Financial market fragility	Excessive monetary stimulus; lack of debt consolidation	Market turbulence; Eurozone crisis; EME crisis	Eurozone; Many EMEs	Challenge for investment managementRisk of FM-induced regulation
Growth pessimism	Low productivity	Anaemic growth	Most AMEs	 Subdued demand for L and NL Declining investment income and erosion of profitability
Digital economy	Digital transformation	Growth acceleration	Global	 Pressure on traditional business New competitors Challenge for global business Costly IT investments New growth opportunities
Rise of PELOTs	Populism and protectionism	Growth retarding	Global	 Growth retarding if implemented Global business models at risk



Outcome	Nature	Occurrence	
Financial market turbulence and new financial crisis	Long cycle Paradigms 2 + 3	Likely	20%
Prolonged growth stagnation and low interest rates	Structural and long cycle Paradigms 1 + 4	Highly likely	80%
Globalisation setback	Very long cycle Paradigms 5 + 6	Possible	10%
Onset of Golden Age fuelled by IT	Structural (medium term) Paradigm 5	Possible	5%



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