

The End of Globalization?

What to Expect Going Forward How to Invest in a New Era

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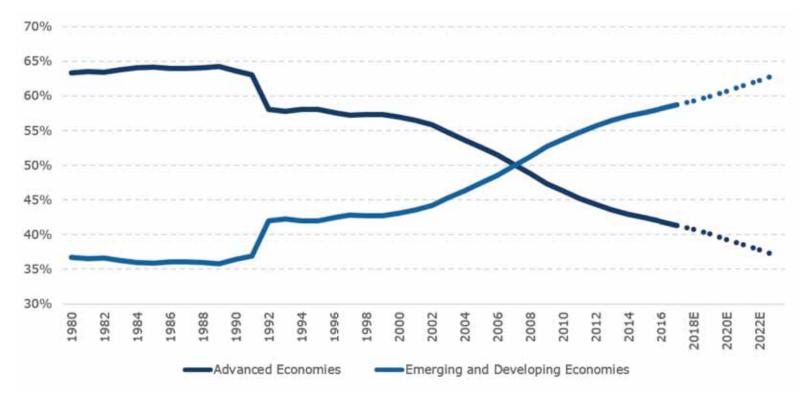
Introduction

- The intersection of globalization, demographics, and technology
- Nearing the end of the post-WWII and Cold War globalization era
- Entering a more antagonistic phase of globalization
- The end of quantitative easing
- Last innings of the post Global Financial Crisis (GFC) investment cycle
- The new environment will bring new challenges and new opportunities



A New Era

Global Share of GDP Based on Purchasing Power Parity Annual Historical and Projected (1980 – 2023E)





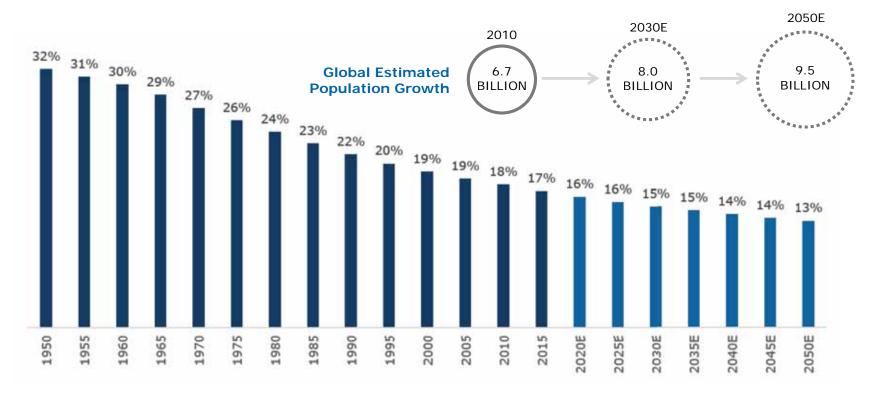
Demographic Trends

- Exploding global population growth
- Transformational shift: Growth of emerging markets/decline of developed market populations
- Dependency ratios: Graying developed markets and young emerging markets
- Generational differences: savings rates and indebtedness
- Super cycles: Urbanization, commodities, and migration



The World is Growing - and Changing

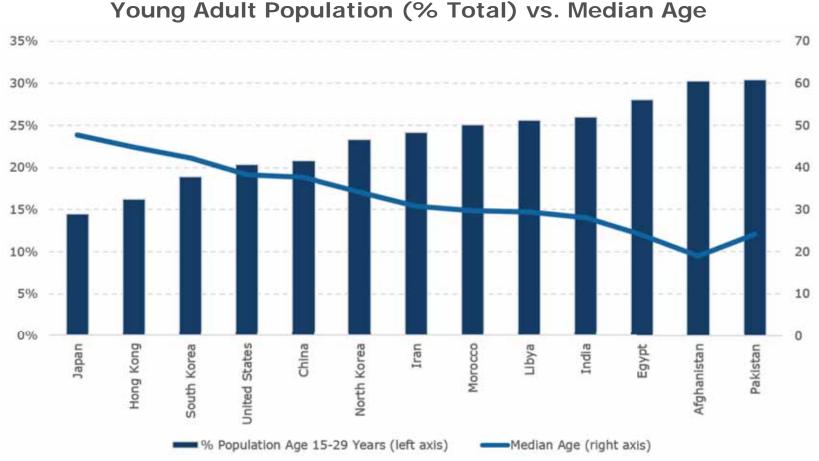
Developed World Population as a % of Total *Historical and Projected (1950 – 2050E)*



Source: United Nations, Department of Economic and Social Affairs, Population Division (2018). World Urbanization Prospects: The 2018 Revision, custom data.



Graying of the Developed World and an Emerging Market Youth Bulge

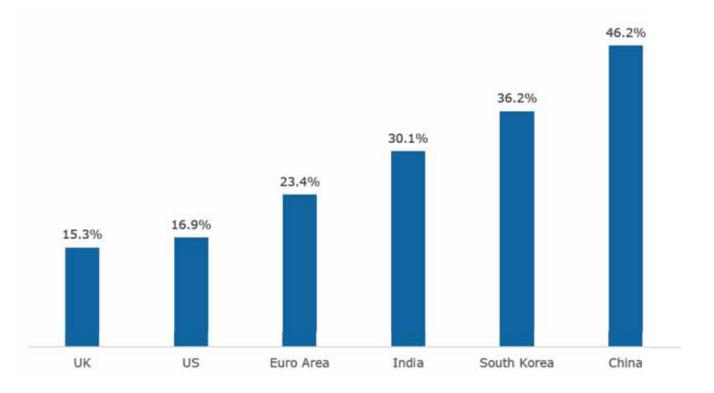


Source: International Data Base, US Census. 2018 population projections based on the 2014 National Projections



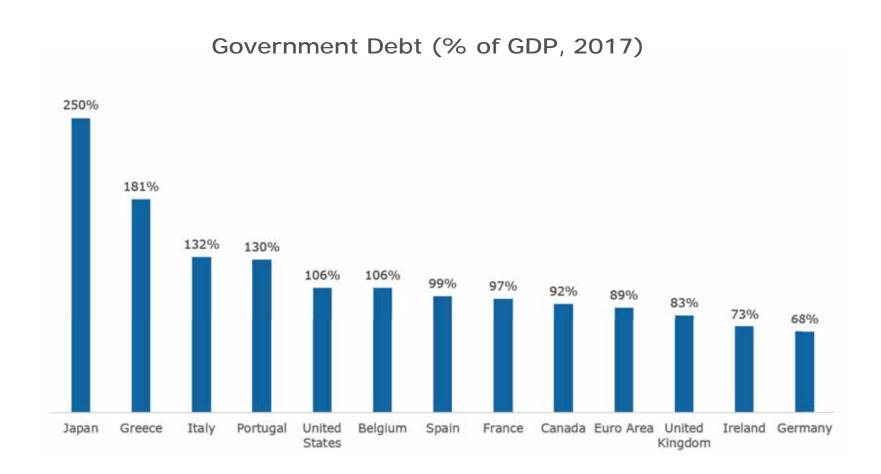
Imbalances...Household Savings Rates

Gross Domestic Savings (% of GDP, 2016)





Imbalances...Government Debt of Developed Economies

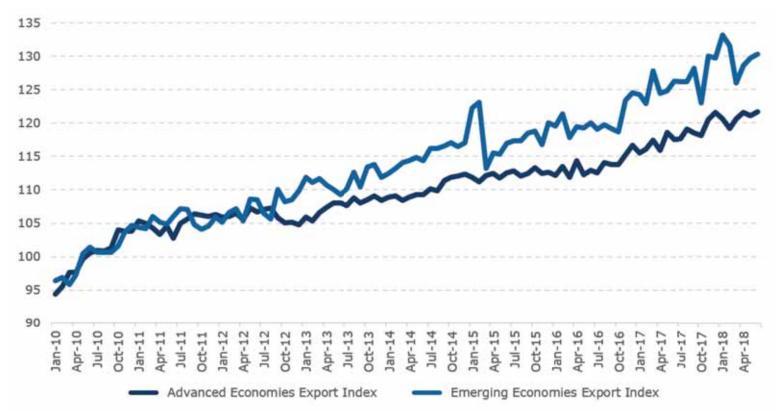


Source: National Accounts Sources-Ministry of Finance Japan, National Statistical Service of Greece, National Institute of Statistics (Italy), Banco De Portugal, US Bureau of Public Debt, Eurostat, Bank of Spain, INSEE France, Department of Finance Canada, Office For Budget Responsibility UK, Central Statistics Office Ireland



Exports Outpace in the Emerging Markets

Developed Economies vs. Emerging Economies—Export Index Monthly, Indexed to January 2010 (1/2010 – 6/2018)

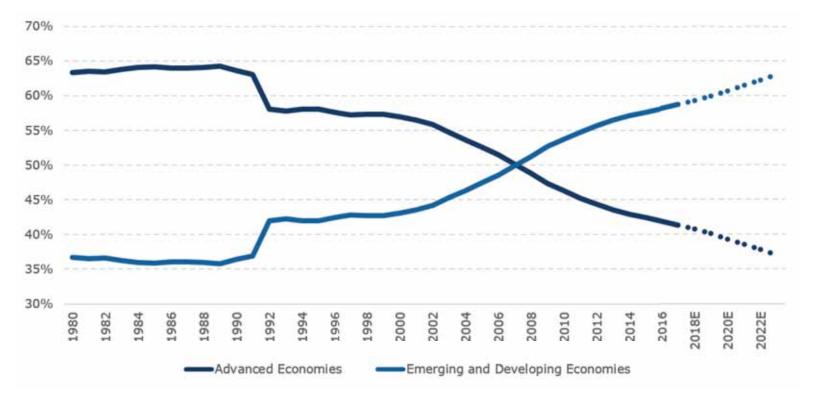


Source: CPB Netherlands Bureau for Economic Policy Analysis



Changing of the Guard

Global Share of GDP Based on Purchasing Power Parity Annual Historical and Projected (1980 – 2023E)





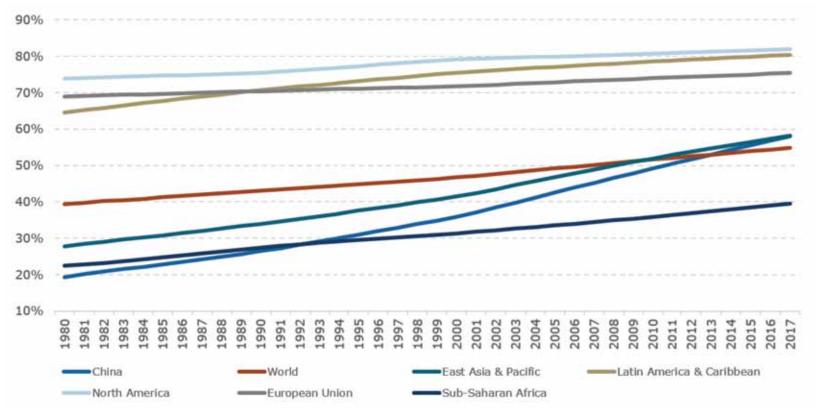
Globalization

- Movement of goods and services (trade)
- Deployment of capital (investment)
- Movement of people (migration)
- Dissemination of knowledge (technology)
- Creating both winners and losers



A Rapidly Urbanizing World

World Urbanization Rates (1980 – 2017)

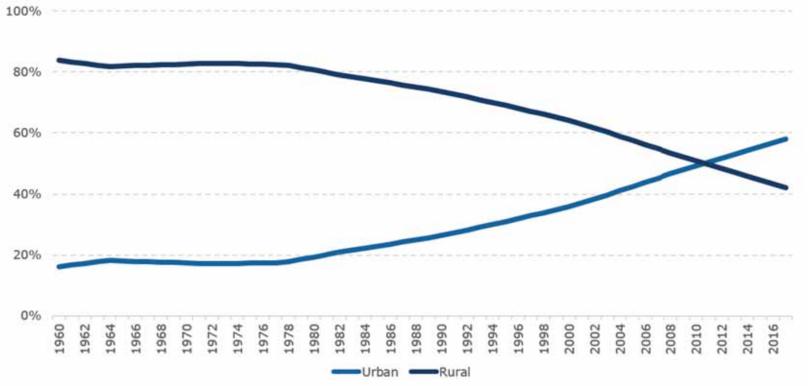


Source: The World Bank



Megatrends and Super Cycles: China's Urbanization Rate

China's Urban vs. Rural Populations, % of Total (1960 – 2017)



Source: The World Bank



Back to the Future: China's Return to the World Stage

China's Share of Global GDP

| Year | % |
|------|------|
| 1000 | 26.2 |
| 1500 | 22.7 |
| 1600 | 25.0 |
| 1700 | 29.2 |
| 1820 | 22.3 |
| 1870 | 32.9 |
| 1913 | 17.2 |
| 1950 | 8.9 |
| 1973 | 4.5 |
| 1998 | 11.5 |
| 2017 | 18.3 |

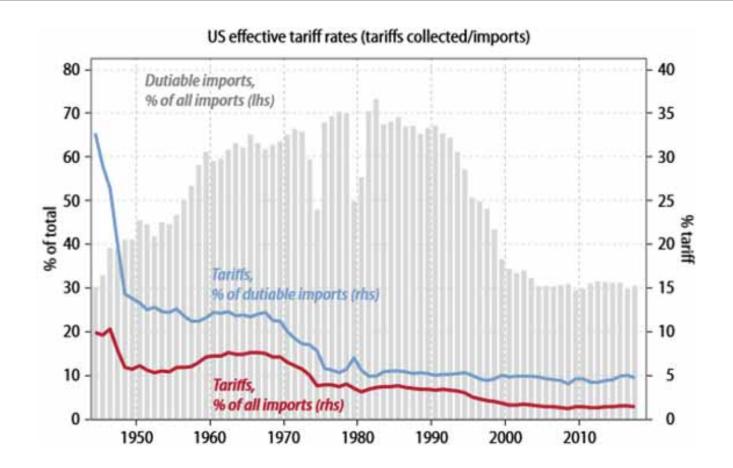


Trade

- Theory
- Short history
- The post WWII era: Bretton Woods
- GATT and the World Trade Organization (WTO)
- Explosion in global trade
- Emergence of China (joining WTO in 2002)
- U.S./China co-dependency
- Current account deficits



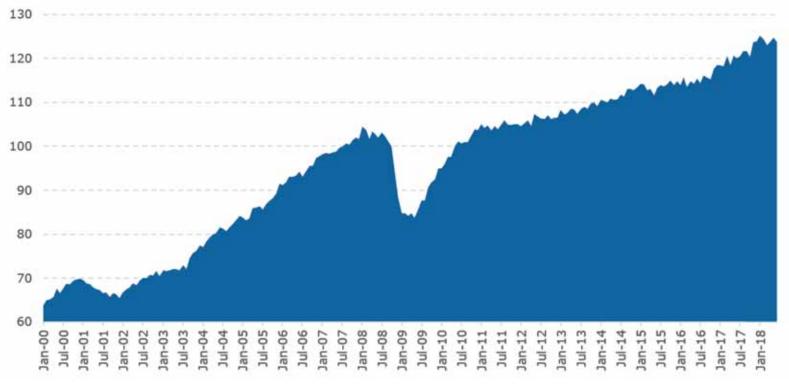
Trade Barriers Fell Steadily Since WWII





Global Trade Keeps Expanding, But...

CPB World Trade Monitor: Merchandise Volumes Index (1/2000 – 6/2018, 2010 Base Year)

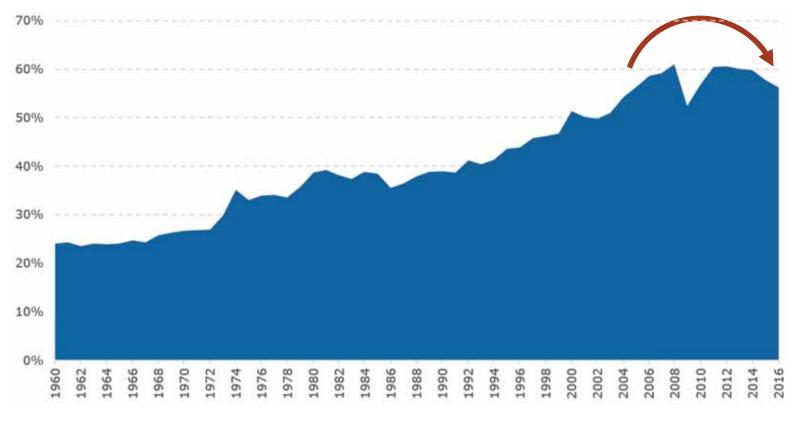


Source: CPB Netherlands Bureau for Economic Policy Analysis



... Is Global Trade Peaking?

Trade, % of GDP (1960 – 2016)

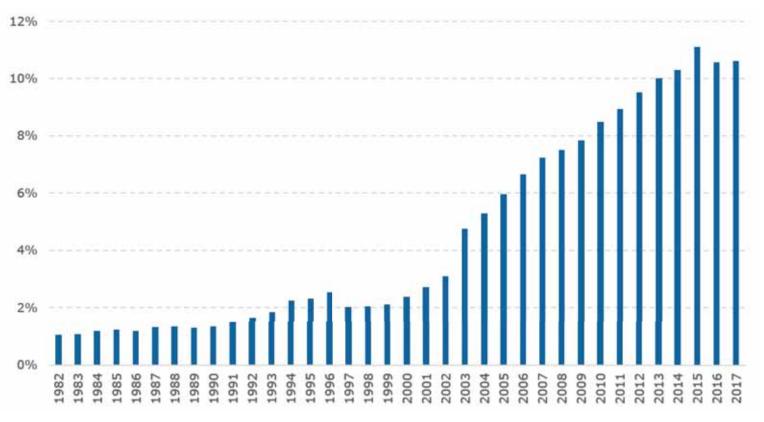


Source: The World Bank



China's Rise

China Exports, % of World Total (1982 – 2017)

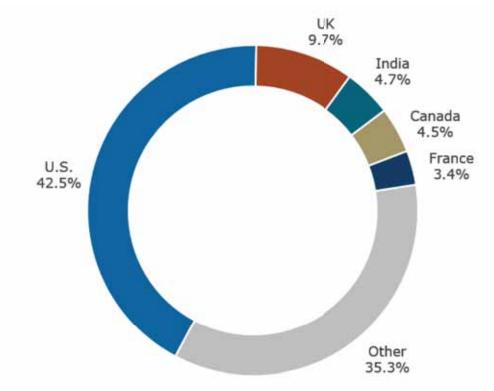


Source: The World Bank



Imbalances...in Trade

Share of Global Current Account Deficit (2017)





Technology

- Moore's Law
- Automation
- A powerful deflationary force
- The sharing economy
- Blockchain and AI
- Disruption
- Recent outperformance of technology
- History of market-sector dominance



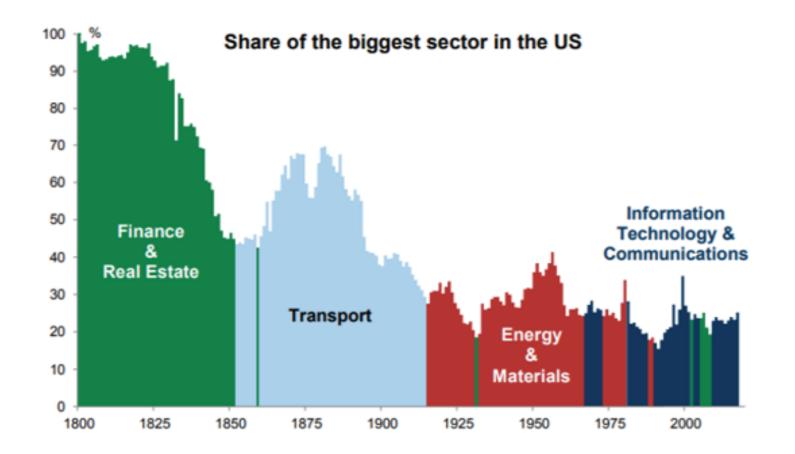
Recent Technology-Sector Dominance



Source: FactSet, Goldman Sachs Investment Research



Sector Dominance Changes Over Time





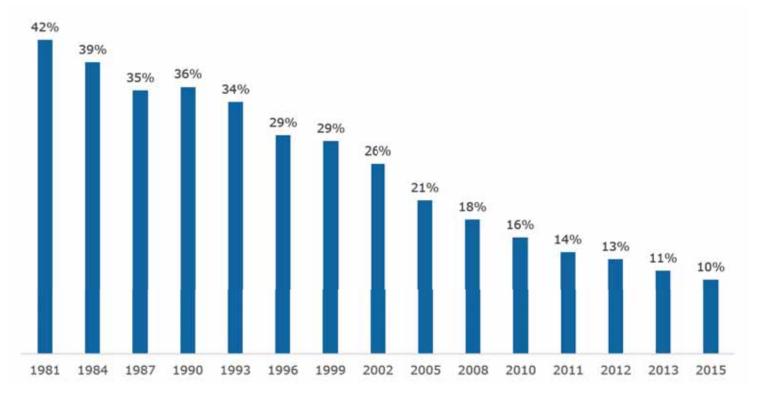
What Globalization/Trade/Technology Have Meant to the World

- World output of goods and services quadrupled from 1970 2008
- Proportion of people living in extreme poverty plummeted from 42% of the global population in 1993 to 18% in 2008
- A large middle class arose across the emerging markets, particularly in China
- The number of electoral democracies increased from 35 to 110 between 1970 and 2008
- Global manufacturing moved steadily from the developed markets to the emerging markets
- The middle class suffered in the developed world
- Economic inequality increased between and within countries
- Many societies underwent rapid social change



The World is Getting Richer

Poverty Headcount Ratio (% of World Population) *Measured at \$1.90 per Day, 2011 Purchasing Power Parity*





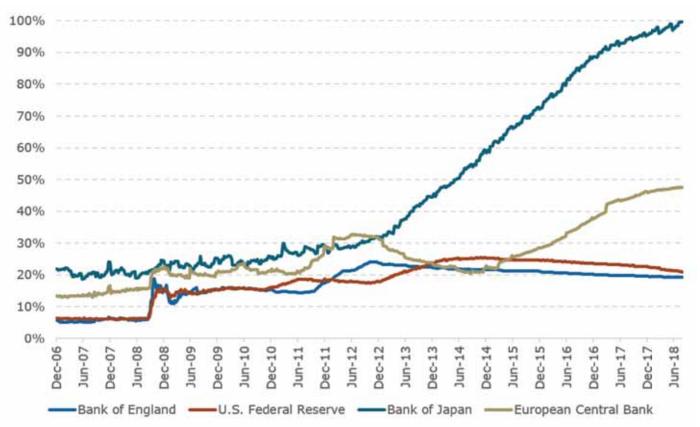
The 2008 Global Financial Crisis: 10 Years On

- Massive global central bank intervention and balance sheet expansion
- Transfer of financial system debt to public debt
- Several subsequent cycles of deflation kept central banks accommodative
- Financial repression did not create intended reflation
- Inability to reduce debt burdens; debt remains cheap
- Resulting in low costs of capital, depressed wages, anemic credit growth, and weak capital investment
- Capital/real estate win as labor loses in the high-cost developed markets
- Deflationary oversupply of global products after long investment boom in the emerging markets leads to depressed profitability
- Led to ruling class loss of credibility particularly in the developed world
- Further leading to illiberal tendencies across the globe



Massive Global Central Bank Firepower

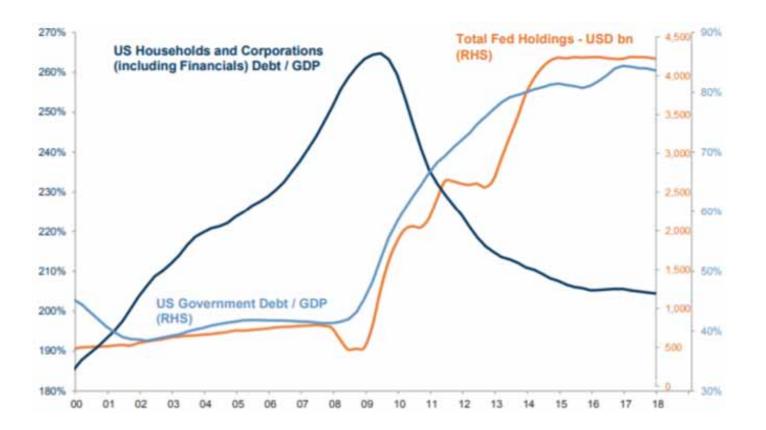
Central Bank Balance Sheet Assets (% of GDP)



Source: FactSet



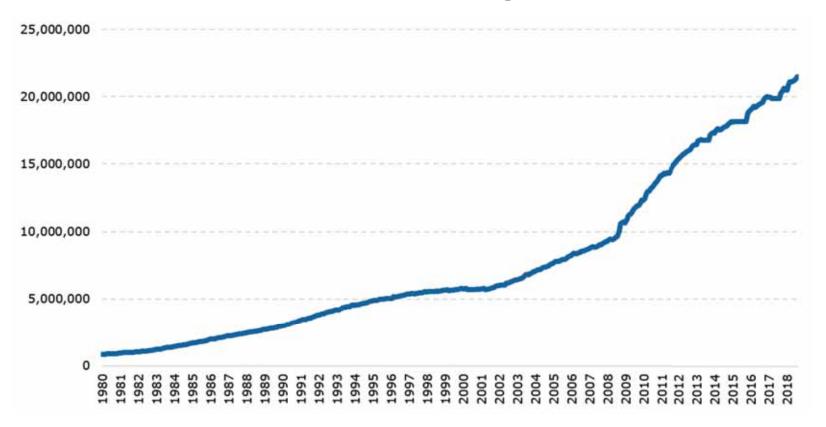
Higher Public Debt





Debt Rises Further with Cheap Capital

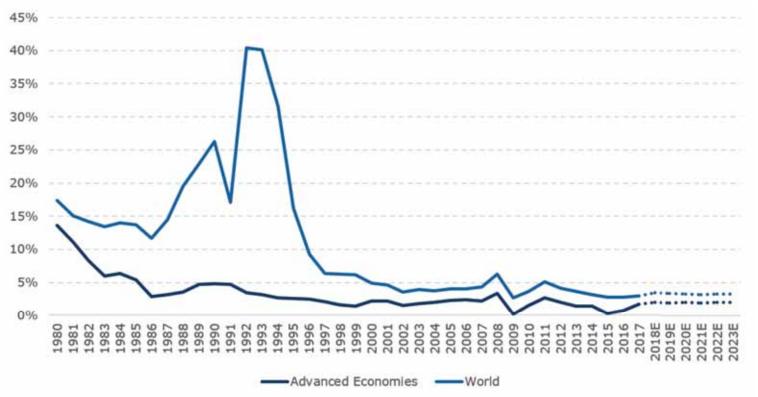
U.S. Federal Debt Outstanding (\$ Millions)





Inflation Trending Down Over Time

Inflation Rate, Average Consumer Prices (Annual % Change) Historical and Projected (1980 – 2023E)



Source: International Monetary Fund



Wages Have Been Restrained

U.S. Average Hourly Earnings of All Private Employees Year-Over-Year % Change, Seasonally Adjusted



Source: Federal Reserve Bank of St. Louis

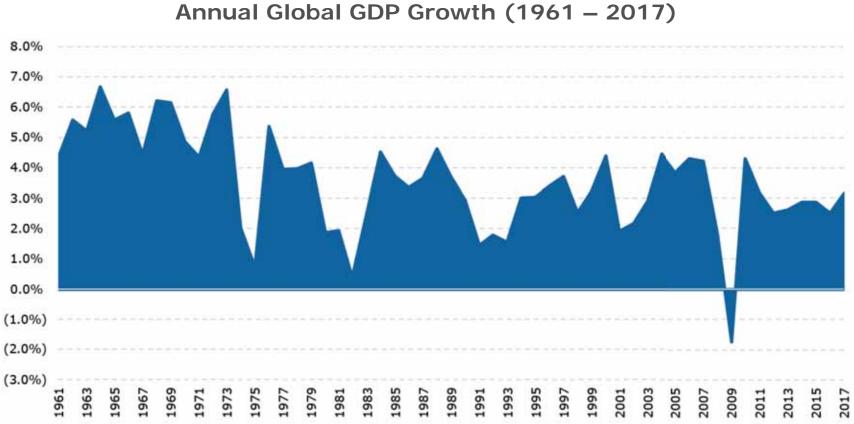


Populism and Protectionism: The Rise of Political Risk

- Confluence of forces and events
- The European Sovereign Debt Crisis and the Arab Spring
- Backlash against the establishment post-Global Financial Crisis: Brexit
- Declining rates of economic growth in the developed markets
- Further decline of labor's share of GDP in era of cheap capital
- Middle class angst and economic stagnation/falling behind
- Global phenomena: Fragmentation and polarization
- The rise of illiberal powers and authoritarian leaders
- Migration pressures
- Generational divergences
- Europe failing to deal with demographic decline and upsurge in migration



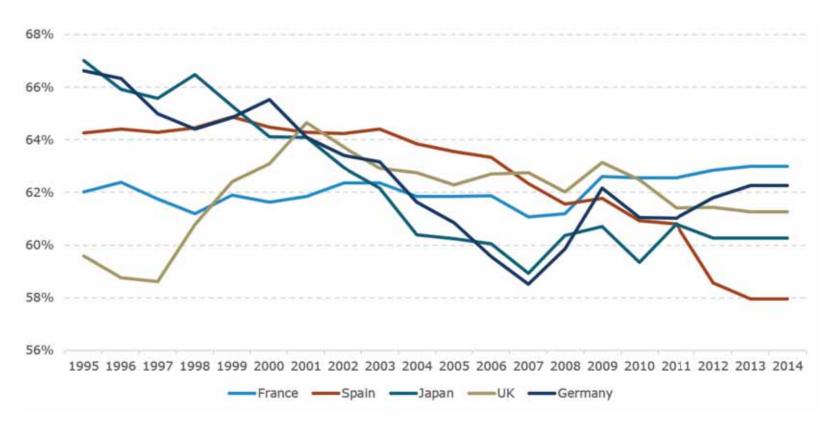
Slowing Economic Growth Over Time





Labor Loses as Capital Gains

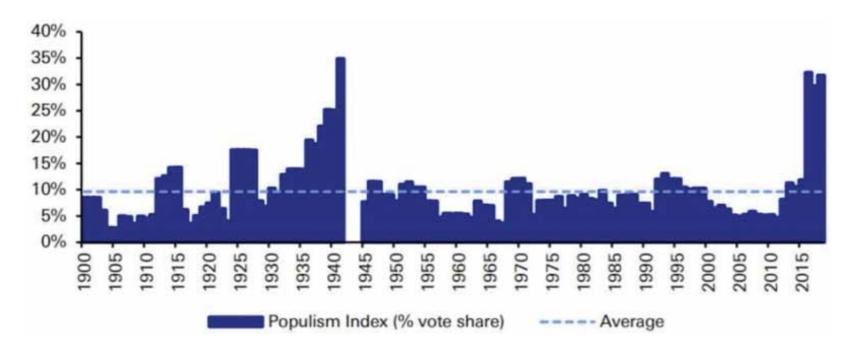
Labor Share as a % of GDP (1995 – 2014)





Back to The 1930s

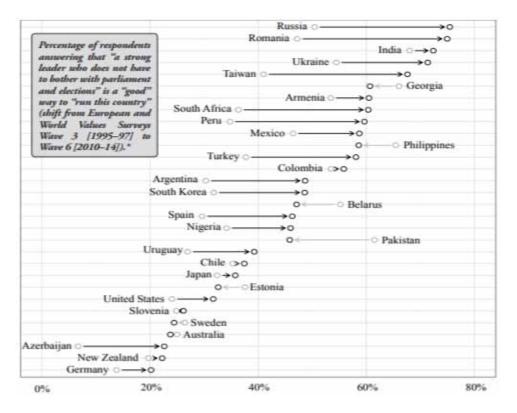
Populism % of Vote Across Key Countries Population-Weighted (1900 – 2017)





Greater Tolerance for Authoritarianism

Growth in Share of Citizens Wishing for a Strong Leader "Who Does Not Have to Bother with Elections"

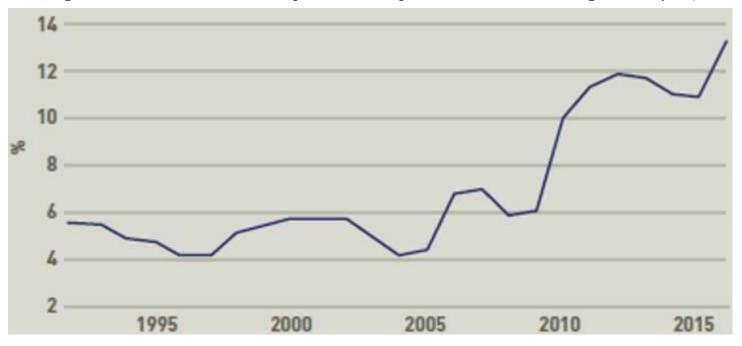


Source: "The Signs of Deconsolidation" by R.S. Foa and Y. Mounk, Journal of Democracy, January 2017



Support for Anti-Establishment Parties Grows

Seats Held by Non-Centrist Parties in European Parliament (% of Total Seats including Austria, Belgium, Finland, France, Germany, Greece, Italy, the Netherlands, Portugal, and Spain)



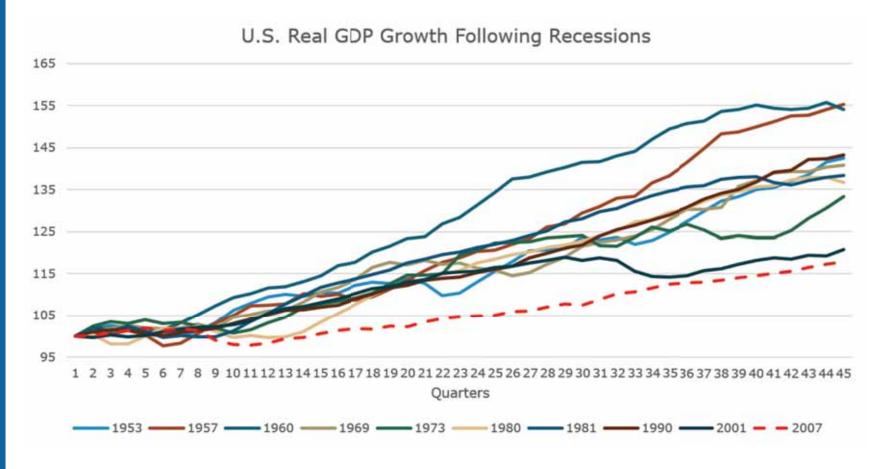


Current Economic Backdrop: Where Are we now?

- A different kind of cycle: weak economic growth yet strong markets
- Global economy growing, but OECD lead indicators falling
- Debt burdens not declining
- China rebalancing from an investment-led to a consumer-led economy
- Tax reform/deregulation provided massive late-cycle push to U.S. economy
- Strong U.S. profits and business confidence
- Global synchrony replaced by U.S. outperformance
- U.S. Fed draining the world of USD
- Higher interest rates/stronger dollar/elevated oil prices/trade frictions not supportive of emerging markets
- The emerging markets have entered a bear market

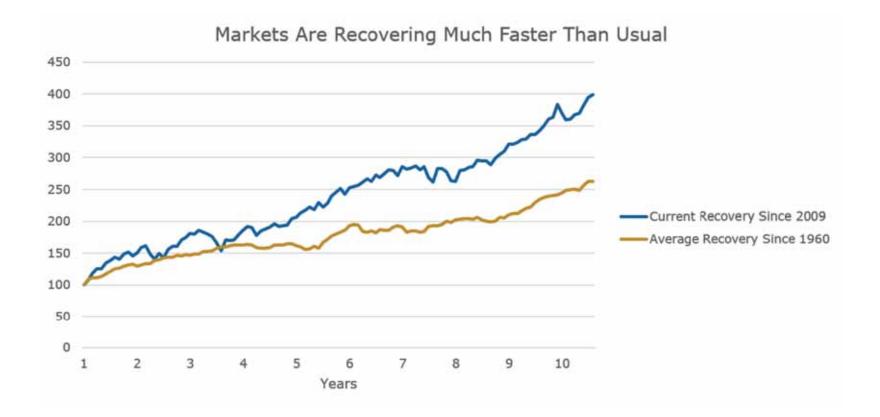


Real GDP Growth this Cycle Has Been Underwhelming...



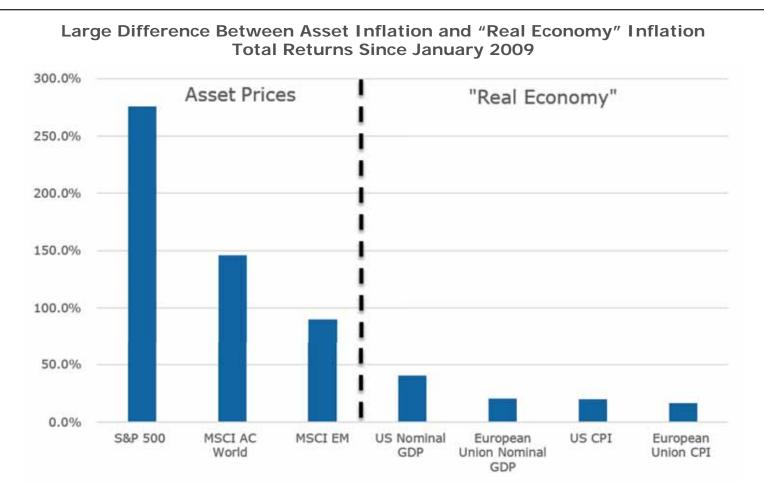


...But Markets Performing Better Than Usual





Real Assets Vs. Economic Performance





Growth Strong but Slowing...

Global Purchasing Managers Indexes (PMIs)

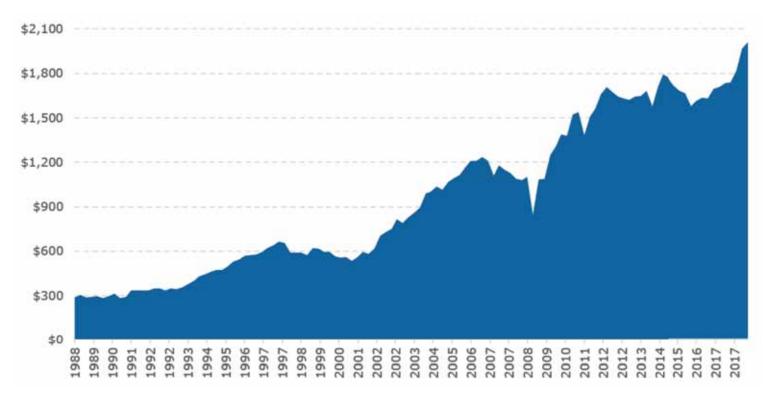


Source: FactSet



... Even as Corporate Profits Surge

Corporate Profits (\$ in Billions)* Seasonally Adjusted Annual Rate (1988 – 2018)

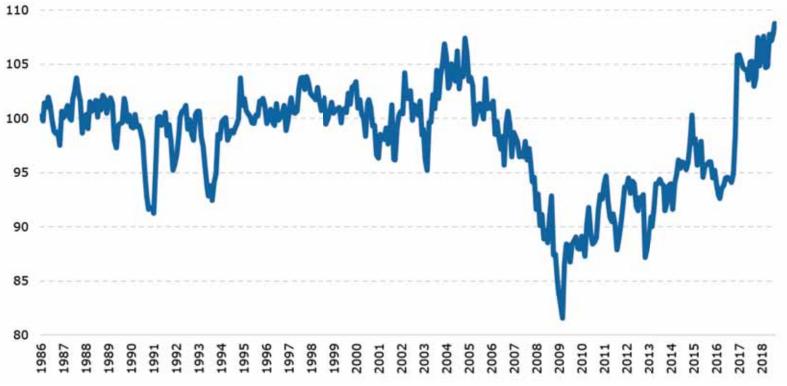


*Note: Inclusive of Inventory valuation adjustment and capital consumption adjustment Source: FactSet



U.S. Business Confidence All-Time Highs

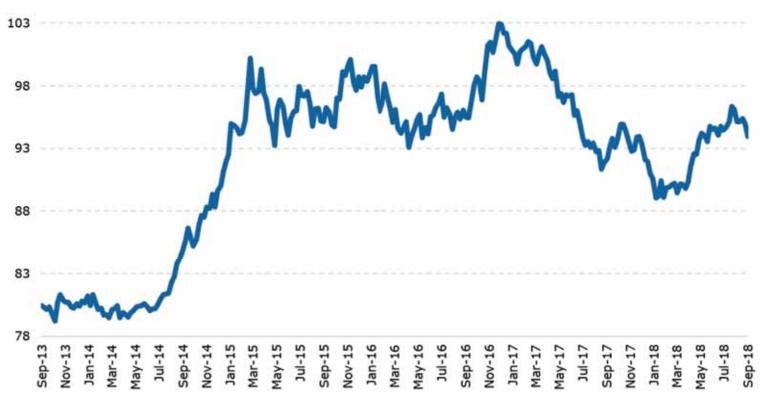
NFIB Small Business Optimism Index Seasonally Adjusted, Indexed to 1986





Is U.S. Dollar Strength Sustainable?

Intercontinental Exchange U.S. Dollar Price Index





Emerging Markets' Currencies Weakening

Selected Foreign Exchange Rates vs. USD Indexed, 2 Years Ending September 2018





Clear Divergence: U.S. Outperforming International

MSCI All Country World Index ex US vs. S&P 500 Index



Past performance is not indicative of future results Source: FactSet



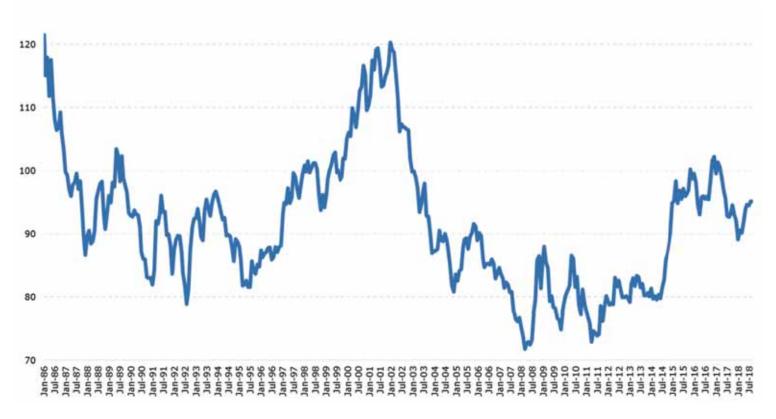
Potential Near and Long-term Investment Implications

- The post-WWII consensus is ending: the rise of political risk
- Trade frictions affect emerging markets, export economies, & specific sectors
- Globalization is not ending, but it is changing
- The question of European unity and fragmentation
- Post-2008 market and economic cycle is slowly ending
- Late-cycle attributes with a bear market on the horizon: Not if, but when
- U.S. dollar to decline longer term (the USD will pay the price for U.S. deficits)
- U.S. vs. international and growth vs. value
- Innovation to drive future technology adoption and sector resilience
- Buy select emerging market equities within 1-2 years



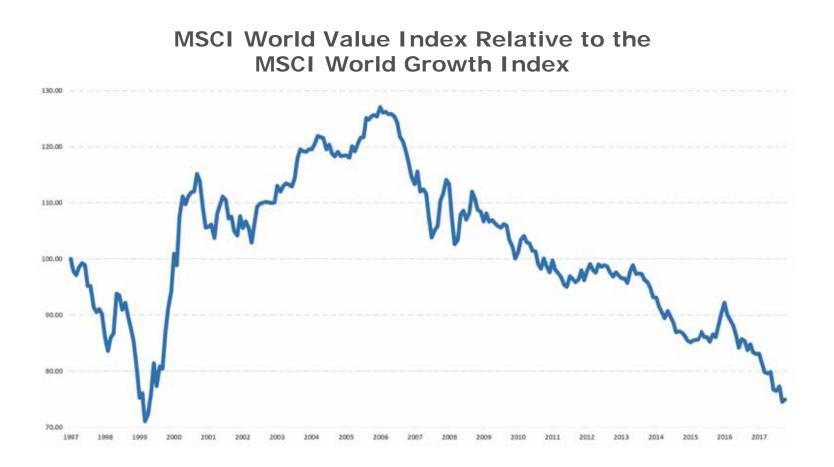
Is U.S. Dollar Strength Sustainable?

Intercontinental Exchange U.S. Dollar Price Index





Growth Has Outperformed Value





Technology Continues to Dominate

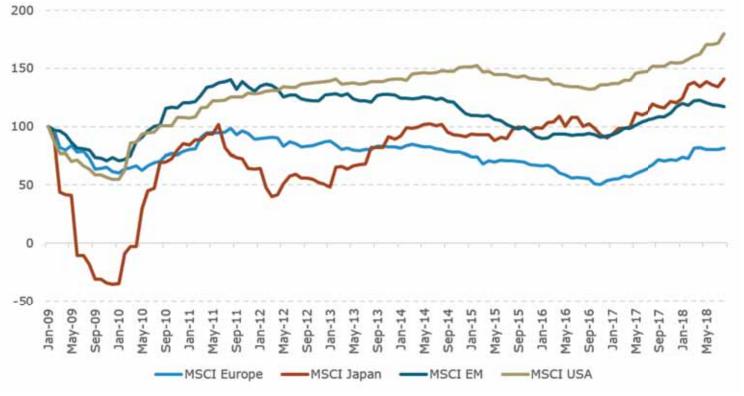


Source: FactSet, Goldman Sachs Investment Research



Global Profit Increase Led by U.S...



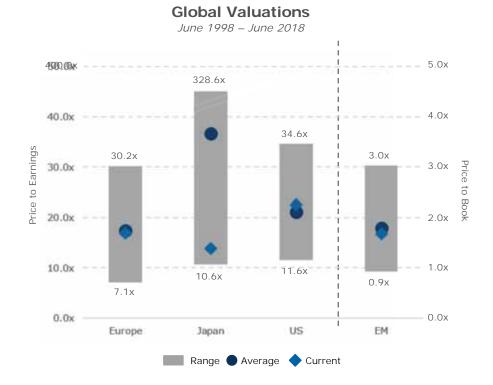


Past performance is not indicative of future results Source: FactSet



...Making the U.S. Expensive

Global Valuations





Positive Long-term Outlook for Emerging Markets



For illustrative purposes only Source: PNC Capital Advisors analysis



Questions?



Martin C. Schulz Managing Director, International Equity

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