

**BigPictureTrading**  
macro . technical . options

# MACRO MASTERS



Tutorial 2  
Modules 6-10



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# Module 6

## Global Institutions

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The G20 logo is displayed against a blue background. It features a stylized globe graphic on the left and the letters 'G20' in large, bold, white font on the right. The 'G' and '2' are connected by a horizontal line.

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- Forum for Governments and Central Bank Governors
- Aim to study, review and promote high-level discussion in organizing international financial stability
- Started in 1999 and represents 85% of the gross world production

# G20 Group of Twenty

Argentina	Australia	Brazil	Canada	China
France	Germany	India	Indonesia	Italy
Japan	South Korea	Mexico	Russia	Saudi Arabia
South Africa	Turkey	United Kingdom	United States	European Union (EU)

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The image shows the official logo for the G20. It consists of a blue banner at the top with the letters "G20" in large white font. Behind the letters is a stylized globe showing continents in green and blue. Below the banner is a green horizontal bar.

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The logo of the International Monetary Fund (IMF) is a circular emblem. The word "INTERNATIONAL" is written vertically along the top inner edge, and "MONETARY FUND" is written vertically along the bottom inner edge. Between these words is a stylized globe with two hemispheres. A laurel wreath surrounds the globe, and a five-pointed star is positioned above the left side of the globe.

- Created in 1945 during Bretton Woods
- 188 countries
- Promote global monetary cooperation
- Promote financial stability
- Facilitate international trade
- Promote full global employment, sustainable growth and reduce poverty

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# IMF's SDR (Special Drawing Rights)

- Created in 1969 as a supplementary international reserve asset
- Essentially “world money”
- Created because “gold and U.S. dollar – proved inadequate for supporting the expansion of world trade and financial flows”
- Essentially trying to wean the world off U.S. dollars to promote rather a basket of global currencies

A stylized graphic of a banknote featuring the letters "SDR" prominently in large, bold, serif capital letters. Below them, the word "INTERNATIONAL" is partially visible at the top, and "BANK" is at the bottom. The background has faint, repeating patterns of stars and leaves.

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**THE  
WORLD  
BANK**

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- International financial institution that provides loans to developing countries for capital programs
  - Their official goal is to reduce poverty
  - Criticism is that they are in fact the instrument that is spreading modern Neoliberalism
  - Driving privatization, fiscal austerity, deregulation and free trade to the developing countries



BETTER POLICIES FOR BETTER LIVES

- Organization for Economic Co-operation and Development
  - Intergovernmental economic organization with 35 member countries
  - To stimulate economic progress and world trade
  - Provides statistics and data to assess global economic conditions



BANK FOR  
INTERNATIONAL  
SETTLEMENTS

- Private international company which shares are owned by central banks of the developed world
  - Established in 1930 by Germany, Belgium, France, UK, Italy, Japan, Switzerland and the United States
  - BIS was owned by both central banks and private individuals and was traded on the stock exchange
  - 1999 bought out all private share holders making it exclusively owned by central banks





BANK FOR  
INTERNATIONAL  
SETTLEMENTS

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- 60 member central banks today
- Make global monetary policy more predictable and transparent
- Regulate capital adequacy
- Encourage reserve transparency
- Since 2004 has been publishing its accounts in terms of SDRs

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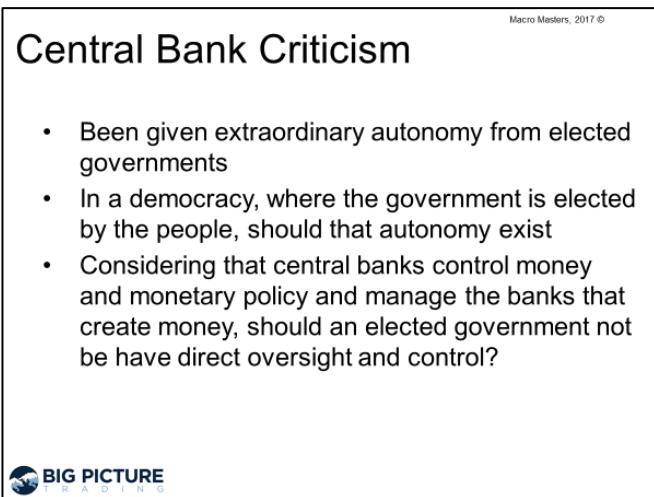
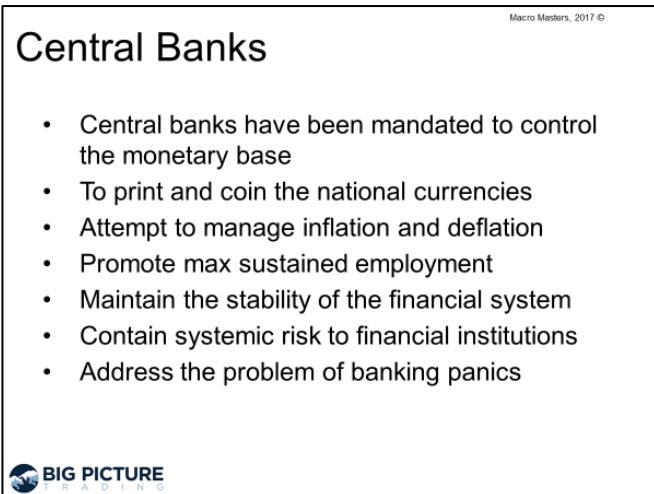
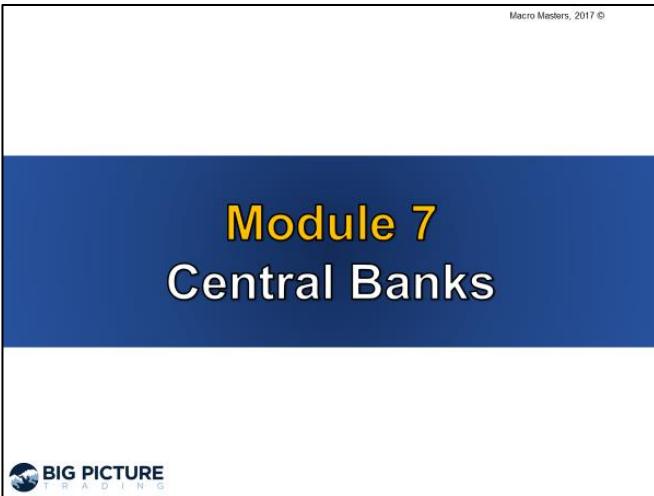
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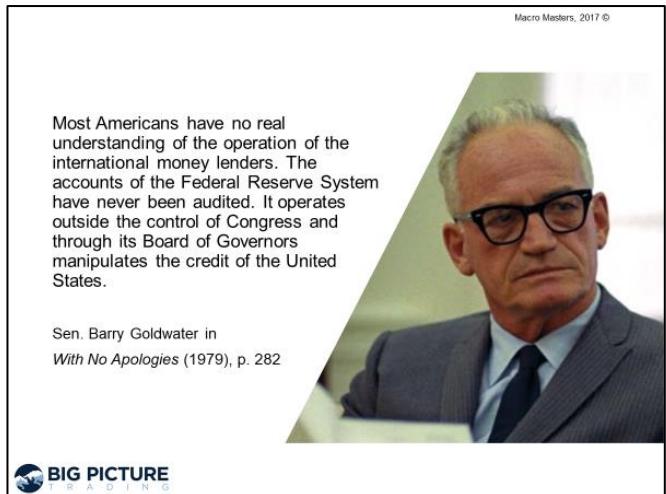


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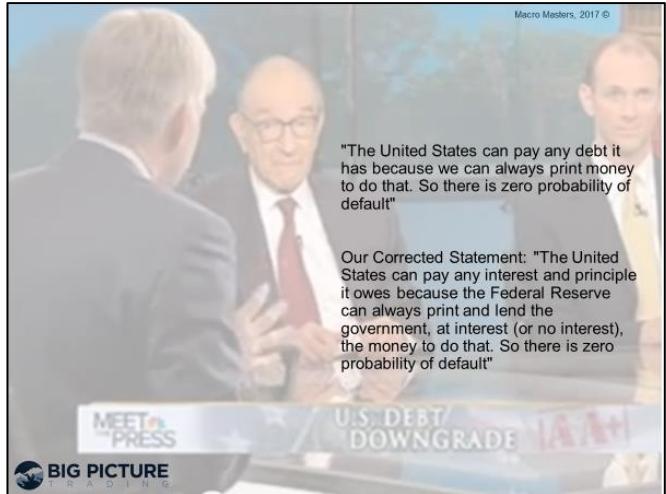
**“The Federal Reserve is answerable to no one.”**

Ronald Reagan



Most Americans have no real understanding of the operation of the international money lenders. The accounts of the Federal Reserve System have never been audited. It operates outside the control of Congress and through its Board of Governors manipulates the credit of the United States.

Sen. Barry Goldwater in  
*With No Apologies* (1979), p. 282

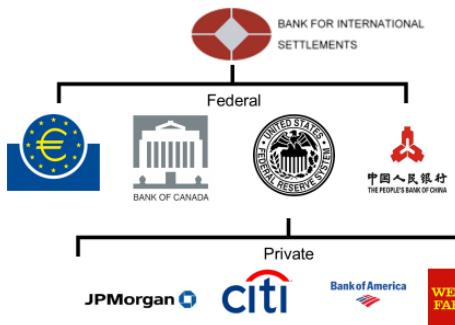


"The United States can pay any debt it has because we can always print money to do that. So there is zero probability of default"

**Our Corrected Statement:** "The United States can pay any interest and principle it owes because the Federal Reserve can always print and lend the government, at interest (or no interest), the money to do that. So there is zero probability of default"

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## Global Financial Hierarchy



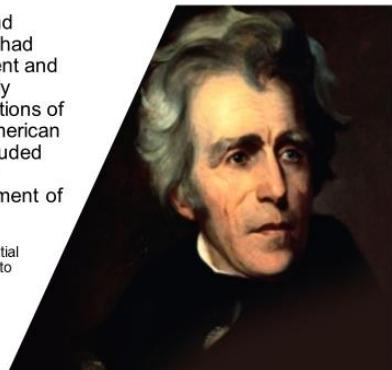
## Federal Reserve System

- Two attempts to form a central bank occurred in the prior centuries
- In 1791, under Alexander Hamilton, they chartered a bank. Its charter was assigned a limited life of 20 years and in 1811 congress failed by 1 vote to extend
- 1816 the Second Bank of United States was chartered for again 20 years



"The bold effort the Second National Bank of the U.S. had made to control government and the distress it has wantonly produced are but premonitions of the fate that awaits the American people should they be deluded into a perpetuation of this institution or the establishment of another like it."

1836, President Jackson's presidential campaign was based on a platform to abolish the bank



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"If Congress has the right to issue paper money currency, it was given to them to be used by the government and not to be delegated to individuals or corporations."

President Andrew Jackson, Vetoed Bank Bill of 1836

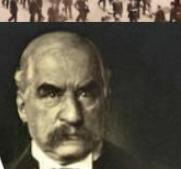
A portrait painting of President Andrew Jackson, showing him from the chest up. He is an older man with white hair, wearing a dark suit and white shirt. The portrait is set against a dark background and is partially cut off by a diagonal black line.

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# Creation of the Federal Reserve

- In 1907 was a massive market collapse and subsequent run on the banks
- There was a full-scale liquidity crisis
- J.P. Morgan himself had to summon the financiers to his home to orchestrate the rescue plan



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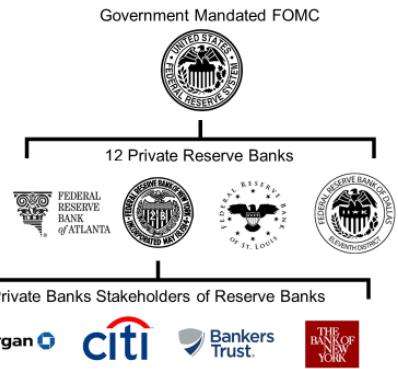
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# Federal Reserve System

- In November 1910, representatives of the major banks converged at Jekyll Island
- Recognized that managing panics needed central planning
- Pushed for a National Reserve Bank
- 1913 the Federal Reserve System was created

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## Federal Reserve System



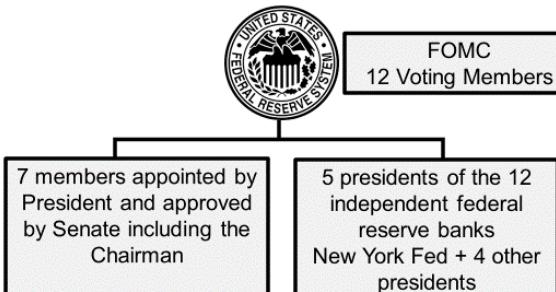
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"The regional Federal Reserve banks are not government agencies ... but are independent, privately owned and locally controlled corporations."

Lewis vs. United States, 680 F. 2d 1239 9th Circuit 1982



## Federal Open Market Committee



Board of Governors of the Federal Reserve System

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## Current FAQs

Informing the public about the Federal Reserve

**Who owns the Federal Reserve?**

The Federal Reserve System fulfills its public mission as an independent entity within government. It is not "owned" by anyone and is not a private, profit-making institution.

As the nation's central bank, the Federal Reserve derives its authority from the Congress of the United States. It is considered an independent central bank because its monetary policy is not subject to influence by either the executive or legislative branches of government. While it does not receive funding appropriated by the Congress, and the terms of the members of the Board of Governors span multiple presidential and congressional terms.

However, the Federal Reserve is subject to oversight by the Congress, which often reviews the Federal Reserve's activities and can alter its responsibilities by statute. Therefore, the Federal Reserve can be more accurately described as "independent within the government" rather than "independent of government."

The 12 regional Federal Reserve Banks, which were established by the Congress as the agent of the Federal Reserve System, are owned by member commercial banks. These member corporations—possibly leading to some confusion about "ownership." For example, the Reserve Banks issue shares of stock to member banks. However, owning Reserve Bank stock is quite different from owning stock in a private company. The Reserve Banks are not open to the general public; ownership of a share of stock is, by law, a condition of membership in the System. The shares may not be sold, traded, or pledged as security for a loan; dividends are, by law, 6 percent per year.

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## Federal Reserve Act

[Section 7. Division of Earnings](#)

**(a) Dividends And Surplus Funds Of Reserve Banks.**

1. Stockholder Dividends

A. In General. After all necessary expenses of a Federal reserve bank have been paid or provided for, the stockholders of the bank shall be entitled to receive an annual dividend of 6 percent on paid-in capital stock.  
B. Dividend Cumulative. The entitlement to dividends under subparagraph (A) shall be cumulative.

2. Deposit Of Net Earnings In Surplus Fund. That portion of net earnings of each Federal reserve bank which remains after dividend claims under subparagraph (1)(A) have been fully met shall be deposited in the surplus fund of the bank.

(b) Transfer For Fiscal Year 2000.

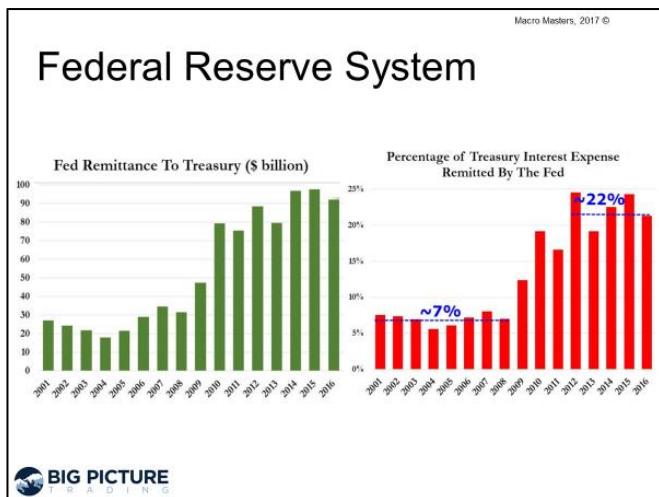
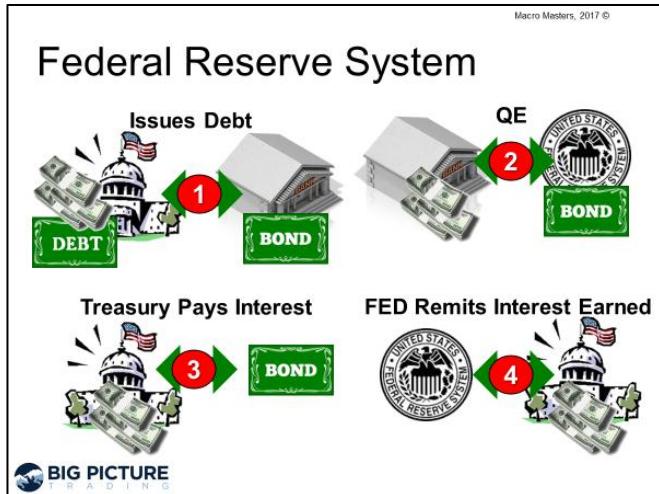
1. In General. The Federal reserve banks shall transfer from the surplus funds of such banks to the Board of Governors of the Federal Reserve System for transfer to the Secretary of the Treasury for deposit in the general fund of the Treasury, a total amount of \$3,752,000,000 in fiscal year 2000.  
2. Allocation of Funds. Of the total amount required to be paid by the Federal reserve banks under paragraph (1) for fiscal year 2000, the Board shall determine the amount each such bank shall pay in such fiscal year.  
3. Repayment Of Surplus Fund Prohibited. During fiscal year 2000, no Federal reserve bank may replenish such bank's surplus fund by the amount of any transfer by such bank under paragraph (1).

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## Federal Reserve and Government

- While the fed is autonomous, to continue to exist, it makes concessions to the government
- The Fed now remits a part of the interest earned on treasuries back to the government

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Bank of Canada

- Created in 1934 as a private corporation with shareholders **to promote the economic and financial welfare of Canada**
  - In 1938, the Bank became a Crown corporation belonging to the federal government
  - Special type of Crown corporation. The Bank has considerable autonomy to carry out its responsibilities. The Bank of Canada was created to be the sole issuer of bank notes and to facilitate management of the country's financial system

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## Bank of Canada

- The revenues derive from the Bank of Canada's role as the issuer of bank notes to Canada's financial institutions
- Institutions pay the Bank when they withdraw bank notes from it. The Bank then invests these funds in government bonds and treasury bills
- The interest earned on these investments is the Bank's main source of revenue
- Profits paid to the government



## Bank of Canada

Speaking to reporters following the rate decision and release of the MPR on Wednesday, Poloz dismissed any suggestion that the central bank takes forecasting directions from the ministry.

"The Finance Minister, sorry, is not my boss," he said.

"The Bank of Canada is a fully independent policymaker, and we operate with independence under a five-year agreement with the government on the inflation target," Poloz added.

"Technically, the bank is a Crown corporation and the shares are owned by the Minister of Finance. So as the main shareholder, it could force some decision," St-Arnaud said in an interview.

"But in real life, central banks have fought for their independence, which is widely recognized as sound policy and means that the finance minister does not interfere in the bank's affairs and allows the bank to be independent."

Financial Post April 13, 2016

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## Central Bank Monetary Policy Tools



## Tightening vs. Easing



- Conventional method of tightening or easing has been through increasing or decreasing short-term interest rates
  - QE is an unconventional way of further stimulating when interest rates are insufficient stimulus

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## What is Quantitative Easing?

- Implemented in mass after the 2008 financial crisis
  - Process of aggressively expanding the monetary base
  - Used to recapitalize and repair commercial banks
  - Relies on the banks to start lending again to drive credit growth

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## Example of Quantitative Easing



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## What is Helicopter Money?

- Monetization of budget deficits (expand base money and directly inject into government)
- Can be passed on through tax cuts and big capital expenditure
- Alternatively can be direct allocations of base money to the private sector (also coined citizens dividend)



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## QE vs. Helicopter Money

- QE is about recapitalizing the commercial banks and having the private sector stimulate the economy with new credit creation
- Helicopter money is distribution of the monetary base directly to main street without going through the private banking sector



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# Module 8

## Money Center Banks

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# Private Commercial Banks

- Banks exist to facilitate the movement of money from those who have excess to those that need it
- Credit and debt is a critical part of the existence of capitalism and entrepreneurship
- Without banks, excess capital would not be efficiently allocated and therefore hinder growth, economic expansion and the very existence of world we know today

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# Fractional Reserve Banking

- Commercial banks are only required to maintain a fraction of deposits to credit
- They can create new credit money based on the excess reserves
- This permits the money supply to grow beyond original money base

The logo for BIG PICTURE TRADING features a stylized globe icon on the left and the company name in a bold, sans-serif font to its right.

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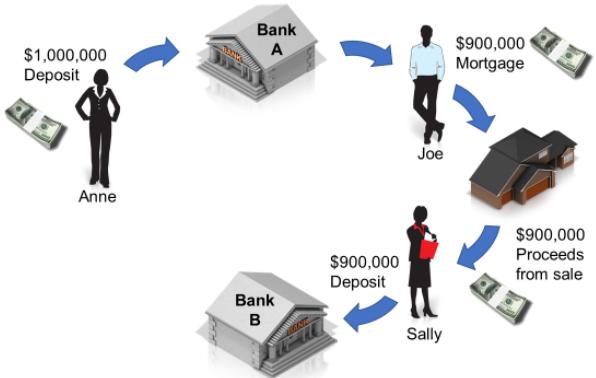
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## Problems with Fractional Reserve

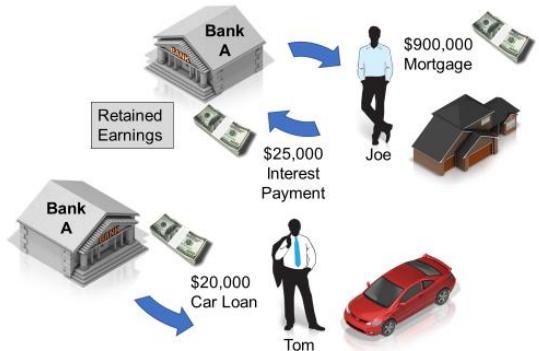
- Steady inflation needs uninterrupted growth in credit (debt)
- Any credit crisis cuts off credit growth and spurs on deflation
- Therefore bank solvency and healthy bank reserves are essential
- Arguably the real mandate of central banks is to keep the banks lending

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## Fractional Reserve Lending



## Fractional Reserve Lending



## Fractional Reserve Lending

- Eventually through the cycle there is \$10,000,000.00 of loans lent out
- The bank virtually created \$9,000,000.00 of money that did not exist and is earning interest on it
- Excess money, leads to inflation
- What happens when the first depositor asks for his \$1,000,000.00 back?



WORLD  
ECONOMIC  
FORUM

COMMITTED TO  
IMPROVING THE STATE  
OF THE WORLD

**More Credit with Fewer Crises:**  
Responsibly Meeting the World's Growing Demand for Credit

**More Credit with Fewer Crises:**  
Responsibly Meeting the World's Growing Demand for Credit

**Challenges in meeting new demand for bank lending:** By 2020, some US\$ 28 trillion of new bank lending will be required in Asia, excluding Japan (a 265% increase from 2009 lending volumes) – nearly US\$ 19 trillion of it in China alone. The 27 EU countries will require US\$ 13 trillion in new bank lending over this period, and the US close to US\$ 10 trillion. Increased bank lending will grow banks' balance sheets, and regulators are likely to impose additional capital requirements on both new and existing assets, creating an additional global capital requirement of around US\$ 9 trillion (Exhibit vi). While large parts of this additional requirement can be satisfied by retained earnings, a significant capital gap in the system will remain, particularly in Europe.

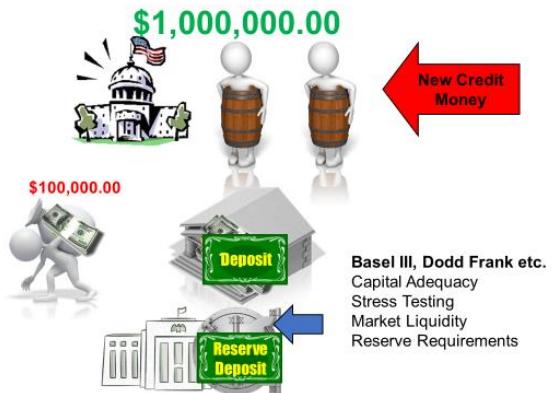
It appears that banks in the US will face the least difficulty in meeting the additional demand for bank lending – assuming US securitization markets for mortgage lending continue to fund future mortgage originations at similar rates as they do currently. (Between 65% and 90% of mortgage originations are financed through securitization, shifting US\$ 6 trillion of increased bank lending off balance sheet). Under the assumption that the Basel III reforms will increase target tier 1 capital ratios to 11% in the industry, US banks would need to grow their tier 1 capital by US\$ 1.2–1.6 trillion by 2020<sup>10</sup>. The analysis projects that the US banking industry as a whole would be able to raise a large part of this additional capital thanks to approximately US\$ 1.0–1.1 trillion in forecasted retained earnings, assuming a dividend payout ratio of 20.6% after 2012, in line with historical averages. However, if securitization levels dropped below 60–65% of mortgages, the US banking system would face an additional capital shortfall. Maintaining the rate of securitization may pose a challenge in itself.

approximately US\$ 1.0–1.1 trillion in forecasted retained earnings,

## Simpler (Cynical) Explanation



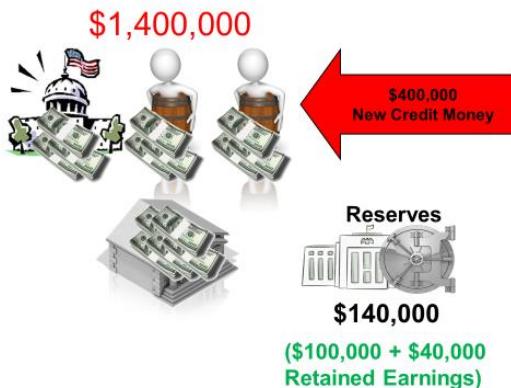
## Fractional Reserve Lending



## Fractional Reserve Lending



## Fractional Reserve Lending



## Credit and Liquidity Crisis



## Financial Institution “Bail-In”

- An alternate process of a bail out for financial institutions deemed to important to fail
- Bank creditors bear burden of saving the institution through restructuring (debt forgiveness)
- Depositors are considered creditors

## Cyprus Banks “Bail-In” 2012-13

- International bailout included complete failure of Cyprus Popular Bank and one time levy or all uninsured deposits there
  - Bank of Cyprus had 48% of uninsured deposits levied



## Canadian “Bail-In” Regime

The Government proposes to implement a —**bail-in** regime for systemically important banks.

This regime will be designed to ensure that, in the unlikely event that a systemically important bank depletes its capital, the bank can be recapitalized and returned to viability through the very rapid conversion of certain bank liabilities into regulatory capital.

This will reduce risks for taxpayers. The Government will consult stakeholders on how best to implement a bail-in regime in Canada. Implementation timelines will allow for a smooth transition for affected institutions, investors and other market participants.

*Economic Action Plan 2013 pg. 154*



## Canadian “Bail-In” Regime 2016

The main focus of the post-crisis reform agenda has been financial stability, including implementing reforms that emerged out of the G20, the Financial Stability Board and international standard-setting bodies. Canada participated actively in developing these standards, and has led in implementing certain key stability-focused reforms, such as Basel III capital and liquidity standards for banks. Adjustments to Basel III to promote a level playing field are still in progress.



## Canadian “Bail-In” Regime 2016

Canada has also pursued a number of other supervisory reforms in line with international standards and best practices, including with respect to stress testing, financial disclosures and corporate governance. Other examples include the development of recovery plans setting out how domestic systemically important banks would recover from severe stress, and resolution plans setting out how they could be resolved in the unlikely event that recovery actions fail.



## Canadian “Bail-In” Regime 2016

Most recently, the Budget Implementation Act, 2016, No. 1 introduced a legislative framework for a bail-in regime for Canada's domestic systemically important banks. This regime will protect Canadian taxpayers in the unlikely event of a large bank failure by reinforcing that bank shareholders and creditors are responsible for the bank's risks.<sup>10</sup> Regulations and guidelines setting out further features of the bail-in regime are being developed for consultation.

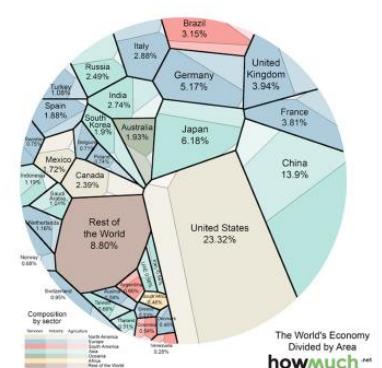


# Module 9

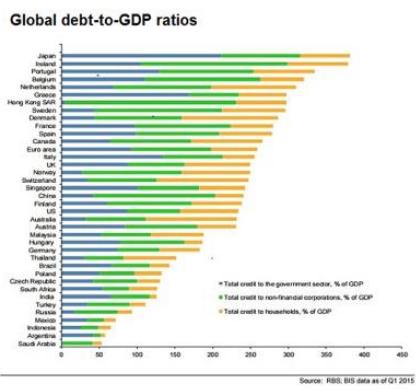
## Countries



## Global GDP



## Debt to GDP



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# America

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# American Economy

A graphic of the United States flag, rendered in red, white, and blue, waving slightly to the left. It is positioned in the top right corner of the slide.

- World's largest economy
- American dollar remains the world reserve currency
- World most influential financial markets

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# Triffin's Paradox

- Tension between national and global monetary policy
- Imbalance in balance of payments and current account
- Dilemma that the reserve country must be willing to supply world with extra supply of currency to fulfill world demand for reserves
- Achieved through trade deficits



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America

- \$20.53 trillion U.S. National Debt
  - \$68.06 trillion U.S. Total Debt
  - \$2.59 trillion in Total Interest Payments
  - \$108.97 trillion in Unfunded Liabilities
  - Money Supply Growth: 5.75% (2008-2015)
  - Rate of Debt Growth: 4.00% (2008-2015)
  - Average GDP Growth: 3.10% (2008-2015)



America

- In order to keep the system inflating, new debt has to be created at an exponential rate
  - The debt ceiling and fiscal cliff issues are just political games
  - Federal Reserve can continue to create an infinite amount of debt to ensure government can always make its interest payments



America

- Fed is going through a tightening cycle
  - The world will likely continue to be starved for U.S. dollars driving continued dollar strength
  - Global growth will continue to contract, potentially into a global recession that will eventually impact earnings of all American conglomerates



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## Interest Rates and U.S. Debt

Year	Total U.S. Credit Stock	Est. Interest Paid on all U.S. Debt	Average Interest
1980	\$4,553,557,607,229	\$631,393,857,229	13.87%
1990	\$13,483,661,750,949	\$1,845,569,698,374	13.68%
2000	\$26,480,184,484,644	\$2,479,673,709,708	9.36%
2008	\$50,509,543,199,108	\$3,866,109,170,993	7.65%
2014	\$61,580,513,315,189	\$2,548,741,647,446	4.14%

Source: usdebtclock.org



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## China



### China



- Socialist market economy
- World's second largest economy
- World's largest economy based on purchasing power parity
- World's fastest- growing "major" economy
- Central planning controlled (top down)



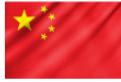
## China Criticism



- Closed capital accounts
  - Economy generally closed to foreigners
  - Uncertainty of accuracy of economic numbers
  - Trust in the Chinese rule of law

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China



- \$10.02 Trillion (USD) National Debt
  - \$34.0 Trillion (USD) Total Debt (\$7.0T in 2007)
  - Rate of Debt Growth: 22.00% (2008-2015)
  - Average GDP Growth: 13.00% (2008-2015)
  - Current GDP Growth down to 6.70% (Feb2016)

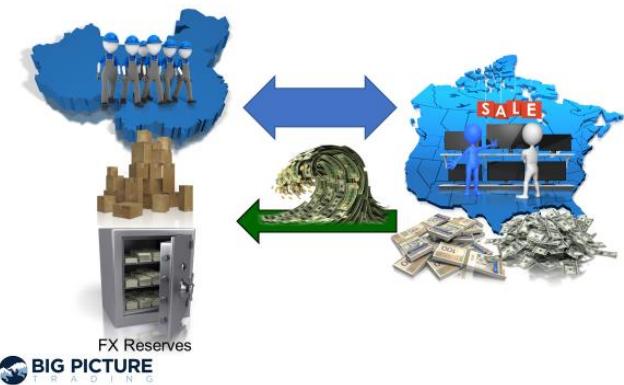
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China in Context

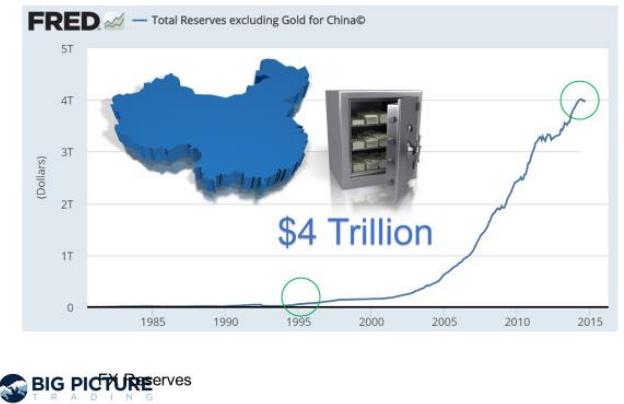


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## China Builds Trade Surplus



## China Builds Trade Surplus



## China Goes Debt Crazy

- Averaging a 20% annual compound growth of debt credit stock



## Comparing Situation

2007-2008 Crisis



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2015-present Crisis

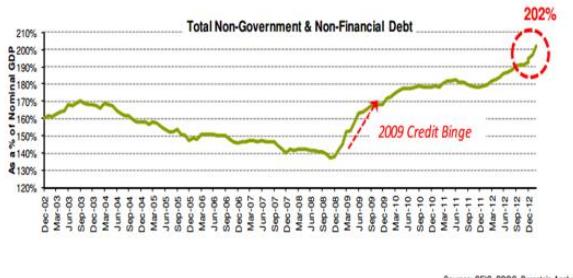


## Largest Banks By Assets

		Billions
1	Industrial & Commercial Bank of China	China
2	China Construction Bank Corp	China
3	Agricultural Bank of China	China
4	Bank of China	China
5	Mitsubishi UFJ Financial Group	Japan
6	HSBC Holdings	UK
7	JPMorgan Chase & Co	US
8	BNP Paribas	France
9	Bank of America	US
10	Deutsche Bank	Germany

**BIG PICTURE**

## China Debt to GDP



**BIG PICTURE**

## China Credit Bubble Bursting

- Severe misallocation of capital
- China is suffering from significant overcapacity
- Credit driven growth cycle over
- China economy slowing down rapidly
- Rapid build of non-performing loans that are stressing the Chinese banks



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### CORPORATE DEBT

IMF says China's growing corporate debt pile could become a systemic risk

Saturday, 11 Jun 2016 | 4:27 AM ET

 REUTERS

China must act quickly to address mounting corporate debt, a major source of worry about the world's second-largest economy, a senior International Monetary Fund (IMF) official said on Saturday.

## China



Demolition of a never used high-rise building is completed successfully at 7 a.m. on November 15, 2015 in Xi'an, in northwestern China's Shaanxi province.



Empty city in Kangbashi, Ordos



Paris of the East, Tianducheng, in China's Zhejiang district

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## China

- Running up against its debt capacity
- Potential that its investment-heavy growth model is exhausted
- Not yet started a credit-fueled consumer consumption
- GDP growth slowing and unreliable

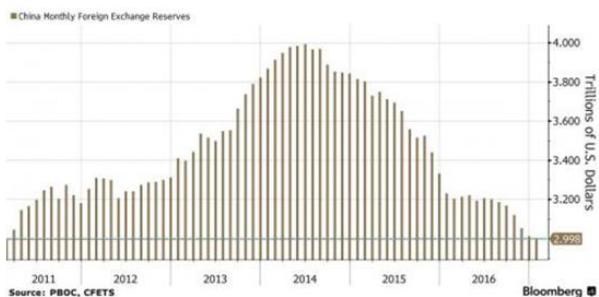


## China's Currency Peg

- The currency is pegged to a basket of currencies
- In order to maintain a peg, the PBOC has to be the buyer or seller of any imbalance of the Renminbi
- Therefore they need to be willing to adopt similar monetary policies to the pegged currency or risk divergences



## Capital Outflow



## China's Currency Peg

- Argument: China will have to expand its monetary base to bail out the system
  - An expansion of a countries monetary base relative to the other countries is currency negative
  - The current question – can China orchestrate a soft landing?



## Japan



Japan



- 3<sup>rd</sup> largest economy in the world
  - 2<sup>nd</sup> largest developed economy
  - Shrinking population
  - Limited immigration policy
  - Demographic aging population



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# Japan

A small graphic of the Japanese flag, featuring a white field with a red circle in the center.

- Japan is slowly approaching critical mass in debt and has been in a deflationary cycle for 20 years
- Japan national debt hit 1 quadrillion yen in 2014
- It's debt is 236% of the countries GDP
- 4<sup>th</sup> largest economy in the world
- The current 10 year note is issued at 0.44% because the debt will become unserviceable at higher rates

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**Japan**

**DEBT-TO-GDP RATIO**

Top 10 Countries\*

Rank	Country	Ratio (%)
1	Japan	229%
2	Greece	177%
3	Italy	133%
4	Portugal	129%
5	Cyprus	109%
6	Belgium	106%
7	Singapore	105%
8	United States	104%
9	Spain	99%
10	France	96%

\*Developed Nations

Off the charts!!!

money.visualcapitalist.com

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# Japan Abenomics

- Implemented Abenomics in 2013
  - Massive Monetary Easing (1.4 trillion)
  - Accommodative Fiscal Policy
  - Pro-Growth Policies
- Was a failure in turning the Japanese economy
- Japan needs to break deflationary cycle
- Still no meaningful growth in spite of over a year of stimulus

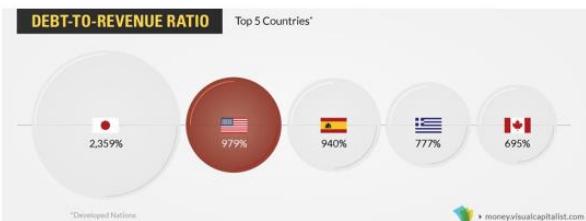
The logo consists of a stylized globe icon followed by the text "BIG PICTURE" in a bold, sans-serif font, with "TRADING" in a smaller font below it.

## Japan Abenomics 2.0

- Implemented Abenomics in 2015
    - Strengthen Japanese Economy
    - Increase Birthrate
    - More Social Security
  - This shift in policy is a clear indication that the first version was a failure and since these are now long term goals rather than plans, Japan has real issues



Japan



Japan

"Japan is heading for a full-blown solvency crisis as the country runs out of local investors and may ultimately be forced to inflate away its debt in a desperate end-game."

Olivier Blanchard (Former Chief Economist at the IMF)



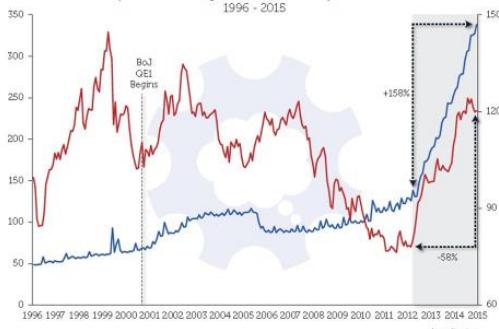
## Japan

- Japan is at the most developed stage of the debt super cycle
- It is trying some of the most experimental monetary theories
- It is currently expanding the Bank of Japan's balance sheet at an unprecedented rate

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## Japan

Japan Monetary Base (¥tn) vs Japanese Yen



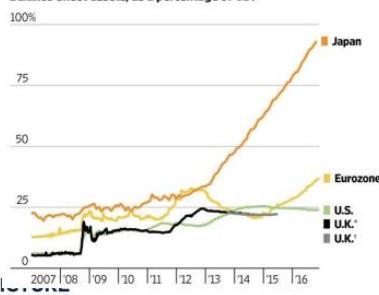
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## Bank of Japan QE Buying

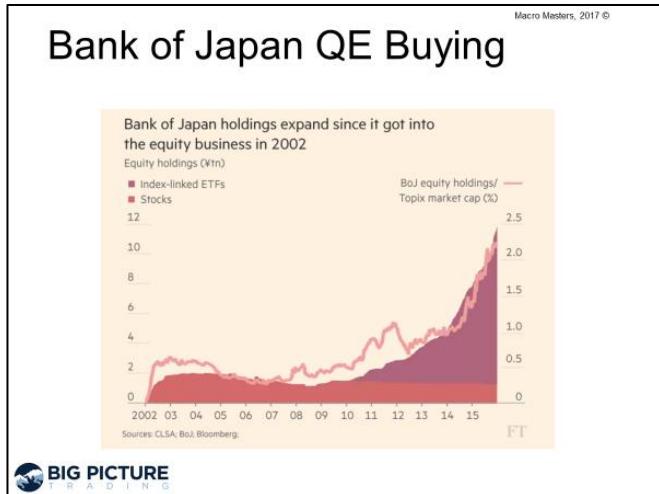
### Overstimulated?

Central banks have bought trillions of dollars of assets over the past eight years in an effort to stimulate growth and inflation.

Balance-sheet assets, as a percentage of GDP



 BIG PICTURE



- Macro Masters, 2017 ©
- ## Japan
- There is no reason not to believe that Japan will be the first of the major G7 developed nations to suffer a failed currency. Just when?
  - At current pace, it will completely nationalize their stock markets within years
  - Therefore it is untenable to perpetually last
  - Will likely be the first country to implement helicopter money
  - Will likely be the first to risk hyperinflation
- BIG PICTURE**

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# United Kingdom

A waving flag of the United Kingdom, featuring the Union Jack design with red, white, and blue colors.

- Highly developed
- 5<sup>th</sup> largest economy in the world
- Large importer of goods
- London is the world's largest financial center

 **BIG PICTURE**  
GLOBAL ECONOMICS

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# United Kingdom

A 3D rendering of the Union Jack, the national flag of the United Kingdom, featuring the red cross of Saint George over the Saltire of Saint Patrick, which is itself overlaid on the Saltire of Saint Patrick.

- \$2.2 Trillion USD National Debt
- Rate of Money Supply Growth: 5.5% (2008-2015)
- Average GDP Growth: 1.03% (2008-2015)

The logo for BIG PICTURE, featuring a stylized globe icon next to the text "BIG PICTURE".

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## United Kingdom



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- Consumer debt at some of the highest levels in the developed world
- Running a 375 billion pound “Asset Purchase Facility”
- London is the center of global banking which makes its situation more unique than other countries



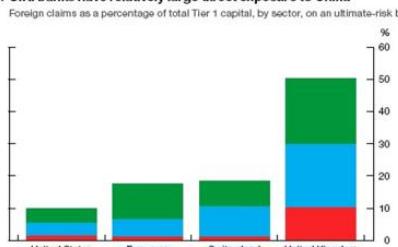
## United Kingdom Geopolitics (Brexit)

- Voted to leave the Euro economic union
- Short term risks:
  - Currency devaluation
  - Potentially higher borrowing costs
  - Reduced GDP from uncertainty of new future trade deals that have not been established



## UK Exposure to China

Chart 28: U.K. banks have relatively large direct exposure to China



Note: Direct exposure is defined as direct foreign claims only (and excludes other contingent or potential exposures).

Sources: Bloomberg and Bank for International Settlements

Last observations: 2013Q4 for U.S., euro-area and U.K. banks; 2013Q3 for Swiss banks

Source: Bank of Canada FSR June2014



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# European Union

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# Europe

- World's largest economic center
- German economy is the world's 4<sup>th</sup> largest economy by GDP
- France 6<sup>th</sup> largest economy in the world

The logo for BIG PICTURE TRADING features a stylized globe icon on the left, composed of blue and white dots. To the right of the icon, the word "BIG" is in bold capital letters, "PICTURE" is in a larger, regular font, and "TRADING" is in a smaller, regular font below it.

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# Europe

- Europe has had near zero growth for 3 years and seeing recessionary numbers in a number of countries
- ECB is implemented QE style programs
- Including an unprecedented negative interest rate for deposits at the central bank

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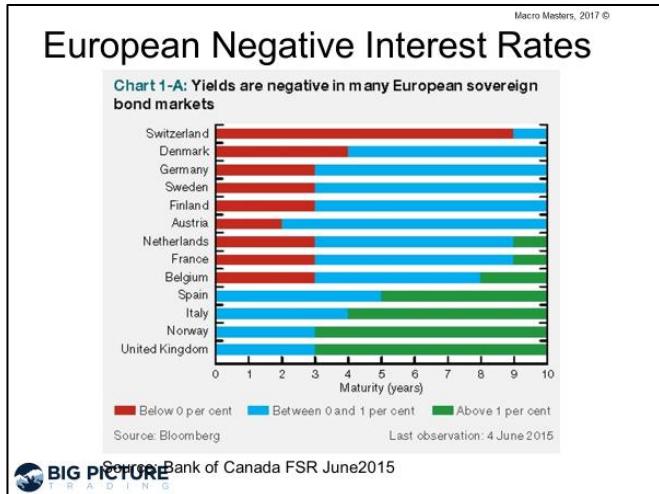
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# Emerging Markets

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## Global Economic Conditions

- Global central bank QE programs are running at an accelerating pace
- Money is internationally mobile
- World starved for dollars and drawing heavily on reserves
- Tightening in the U.S. will continue to hurt the world economies

The logo for BIG PICTURE TRADING features a stylized globe icon on the left and the company name "BIG PICTURE" in bold capital letters above "TRADING" in a smaller font.

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# Emerging Market Sensitivity

- Emerging markets need U.S. dollars
- Global growth requires commodities and commodities are globally traded only in U.S. dollars
- There are two primary ways emerging markets acquire U.S. dollars:
  - America buying imports
  - America exporting capital for investment

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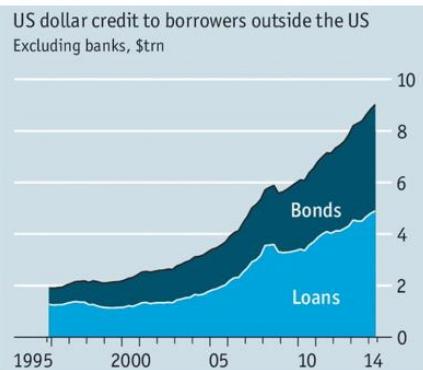
## Emerging Market Crisis

Two precipitating factors:

- Shale revolution changed the global landscape forever as the importing of oil was a crucial provider of dollars
- Divergent global monetary policies driving impactful dollar rally



## Emerging Market Sensitivity



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# Canada

A Canadian flag is displayed in the top right corner, showing the red and white colors with the red maple leaf in the center.

- 10<sup>th</sup> largest economy by GDP
- 4<sup>th</sup> highest estimated value of natural resources, valued at \$33 trillion dollars
- Oil, lumber and real estate some of Canada's most important sectors
- Commodity sensitive currency

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The figure consists of four separate line charts arranged in a 2x2 grid. Each chart plots the value of a specific currency against the U.S. Dollar from January 2000 to December 2017. The y-axis for each chart represents the exchange rate, with major tick marks at 0.8, 1.0, and 1.2. The x-axis shows years from 2000 to 2017 in two-year increments. The Canadian Dollar chart shows a steady decline from approximately 1.0 in 2000 to about 0.75 in 2017. The Brazilian Real chart shows a similar decline from around 1.0 in 2000 to 0.75 in 2017. The Australian Dollar chart shows a decline from about 1.0 in 2000 to 0.75 in 2017. The New Zealand Dollar chart shows a more volatile decline from approximately 1.0 in 2000 to about 0.75 in 2017.

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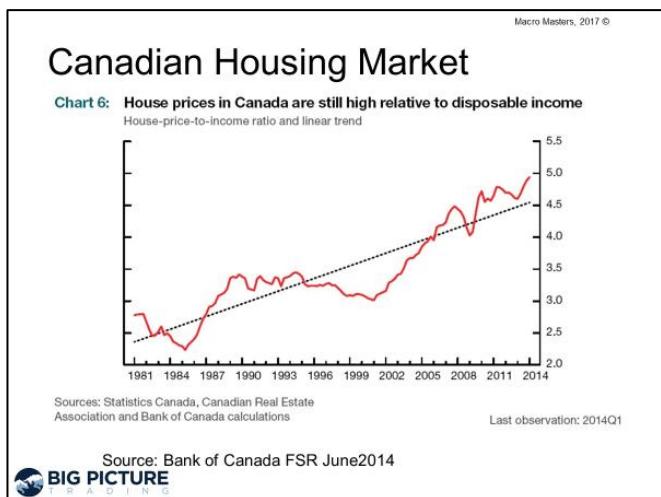
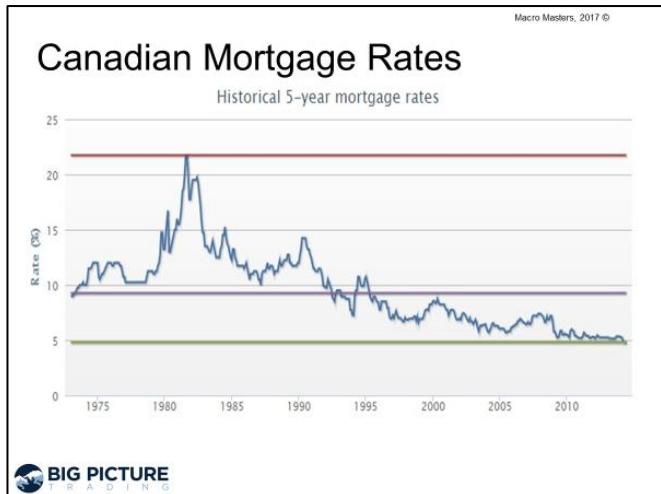
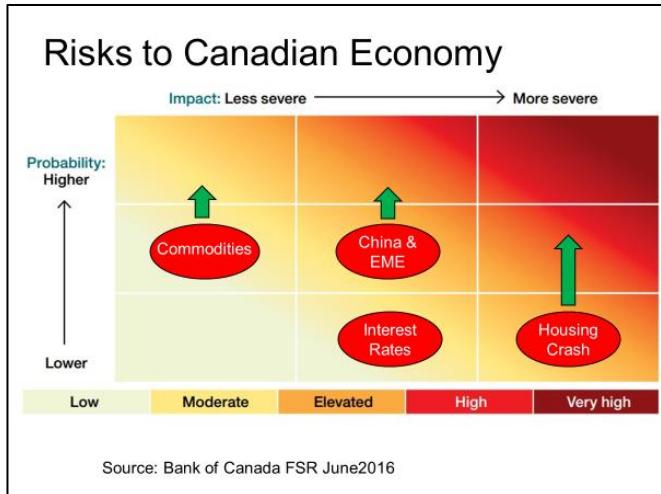
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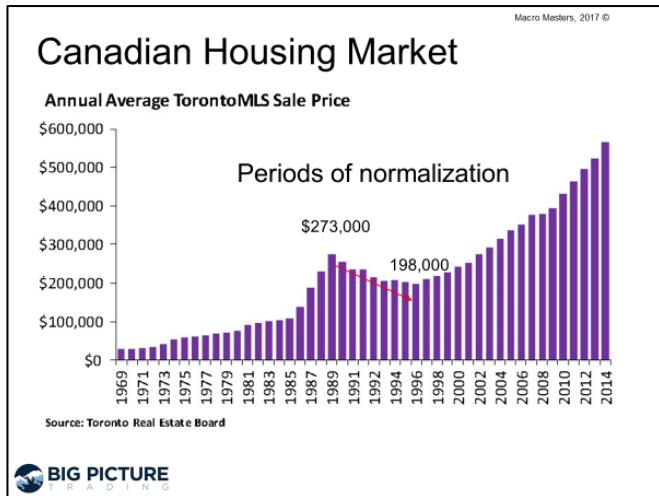
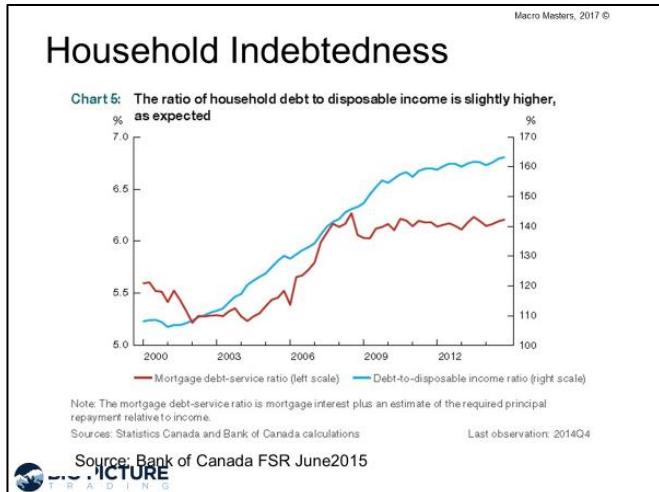
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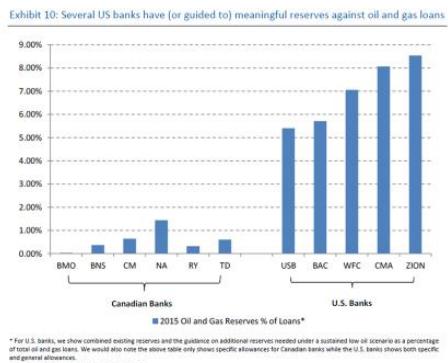
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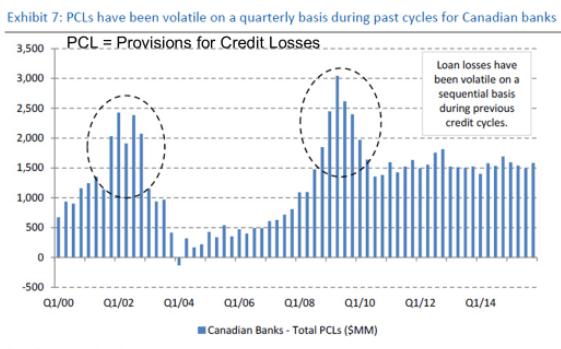


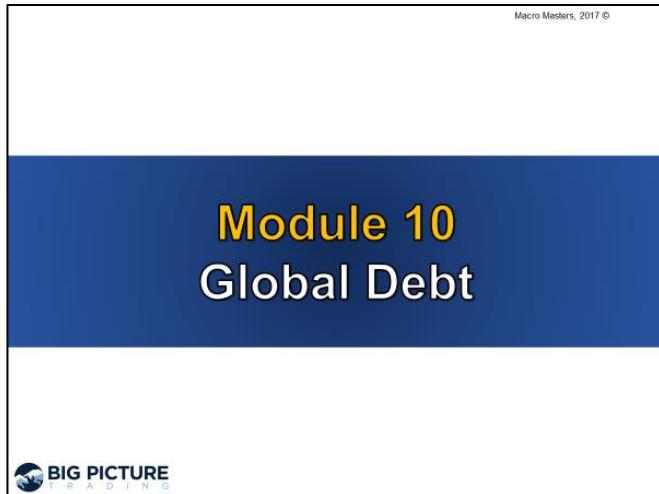


## Example of Vulnerabilities

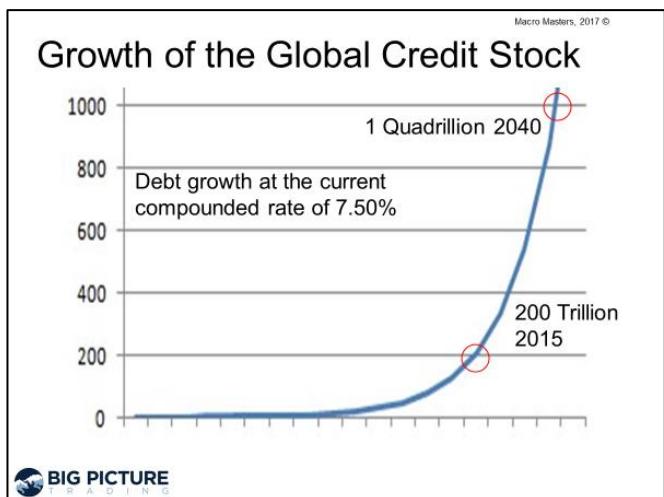
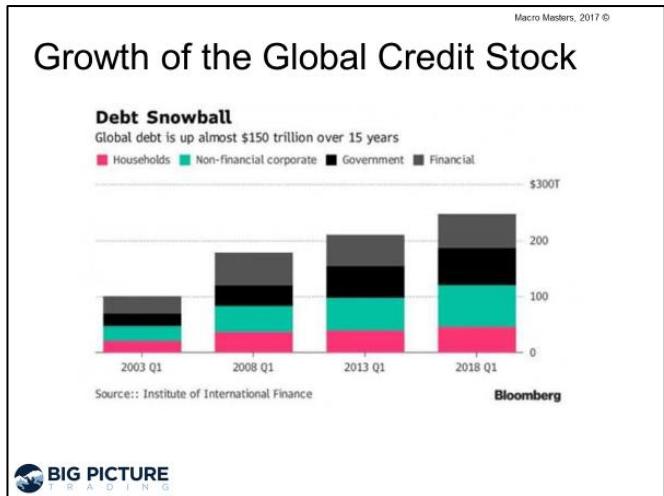
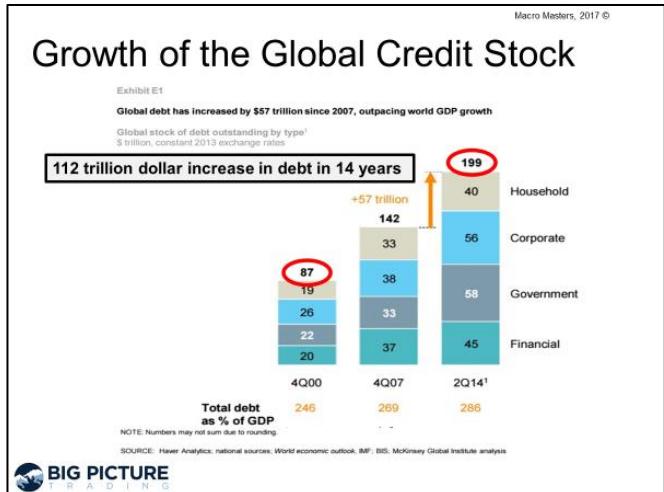


## Example of Vulnerabilities





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## The Global Monetary System

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- If debt growth rate decreases:
  - Will it hurt global GDP?
  - Will money supply contract ushering in a deflationary depression?
- The link between debt growth and economic growth are undeniable, how will the world deal with this structural flaw?



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