

# 10 Years After the Great Recession: How Have We Recovered? What Have We Learned?

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President & CEO

## Agenda

#### **Introduction**

### ➤ Hindsight is 20/20

- Causes of the Global Financial Crisis "GFC"
- Results: The Fallout From GFC
- Fixes: What Repairs Were Done

#### ➤ Where Are We Now – 10 Years Later

- Market Performance
- Investment Returns and Funding

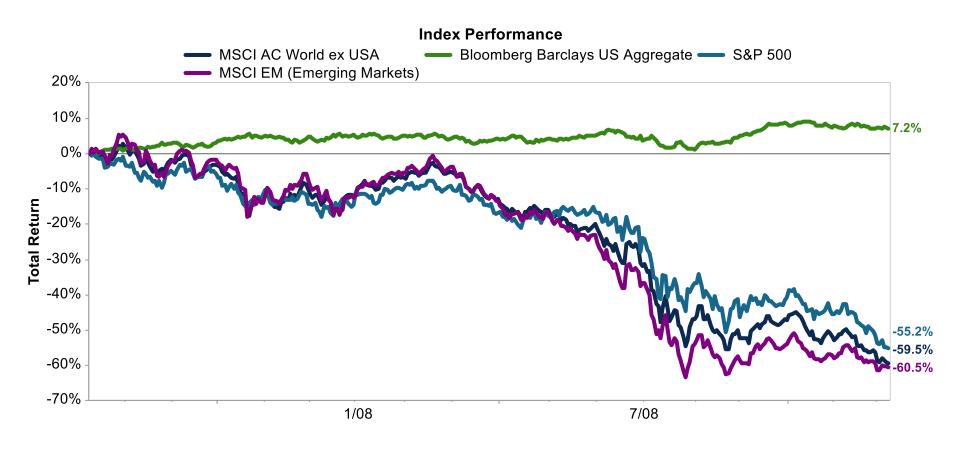
### >Future Impacts

Risks and Opportunities

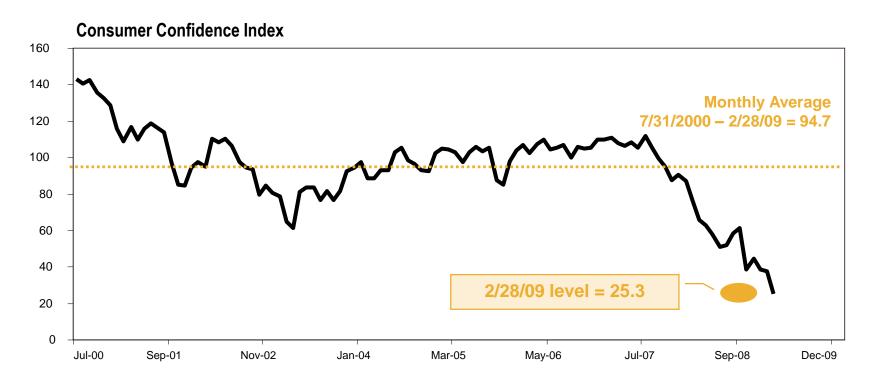
# Early 2009 Headlines...



# October 10, 2007 to March 9, 2009



## **Consumer Confidence**



Source: The Conference Board (via Bloomberg). Consumer Confident Index through 2/28/2009.

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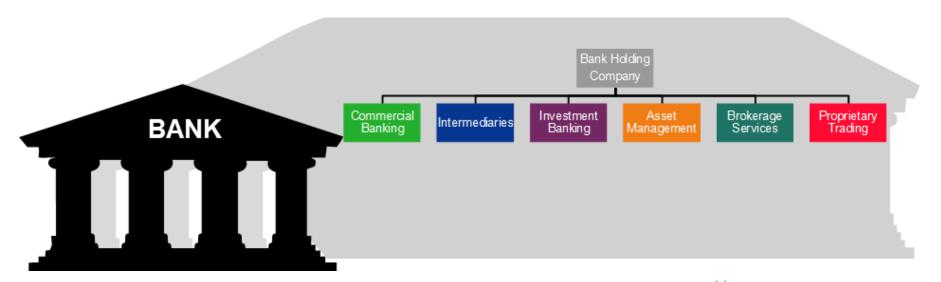
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# **Causes: Bank Deregulation**

- ➤ Gramm Leach Biley Act (1999) repealed sections of Glass-Steagall that prohibited banks from engaging in underwriting and trading in securities markets
- ➤ Risk and Leverage are embedded within the banking system
- ➤ Created
  - Institutions "Too Big to Fail"
  - Complex derivatives
  - "Shadow Banking System"

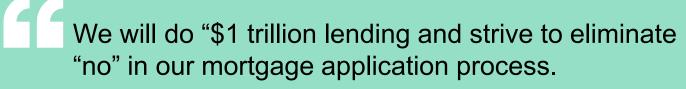


# **Causes: Deregulation of Mortgage Market**

- ▶1991: Affordable Housing Initiative
  - Government Sponsored Enterprises "GSE" (Fannie Mae and Freddie Mac) lowered lending targets for low and moderate income qualifiers
- ▶1992: Federal Housing Enterprise Financial Safety and Soundness Act
  - Act sets targets and goals for expanding loans and turbo charges sub-prime loans

#### >RESULT:

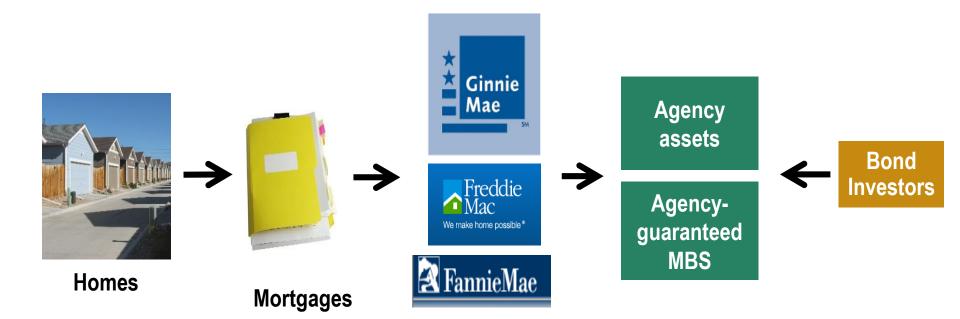
GSE's share of mortgage market rose to 60% from 30% in 2000



—Fannie Mae press release

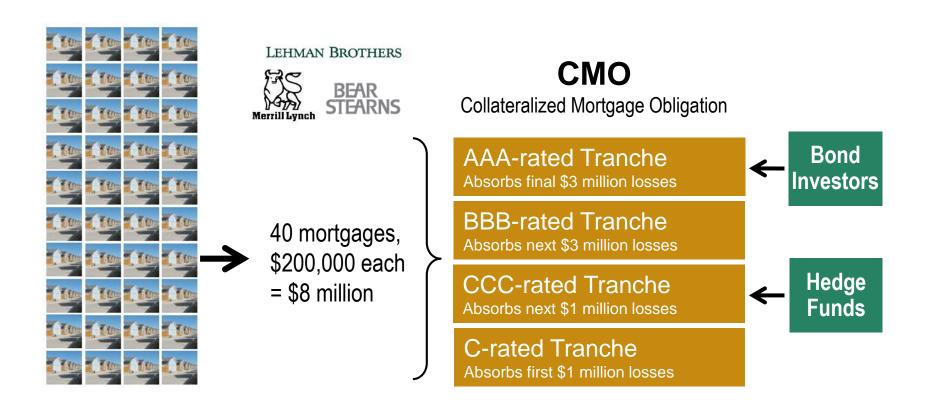


# Causes: Mortgage Loans Repackaged



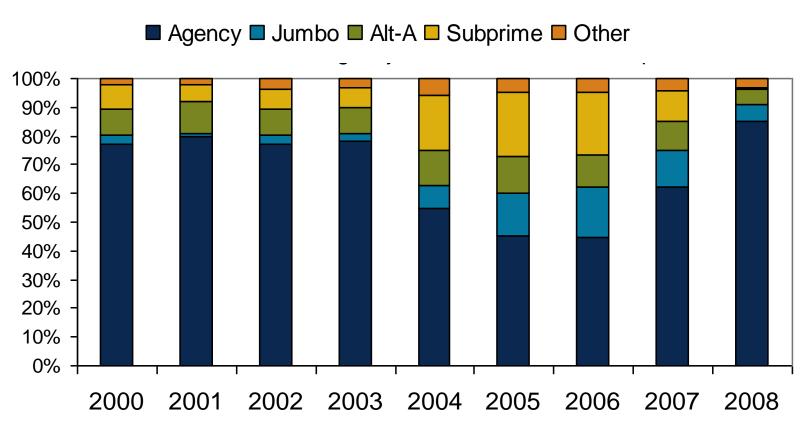
#### **Causes: Structured Product Proliferation**

#### ...created structured products to sell to others

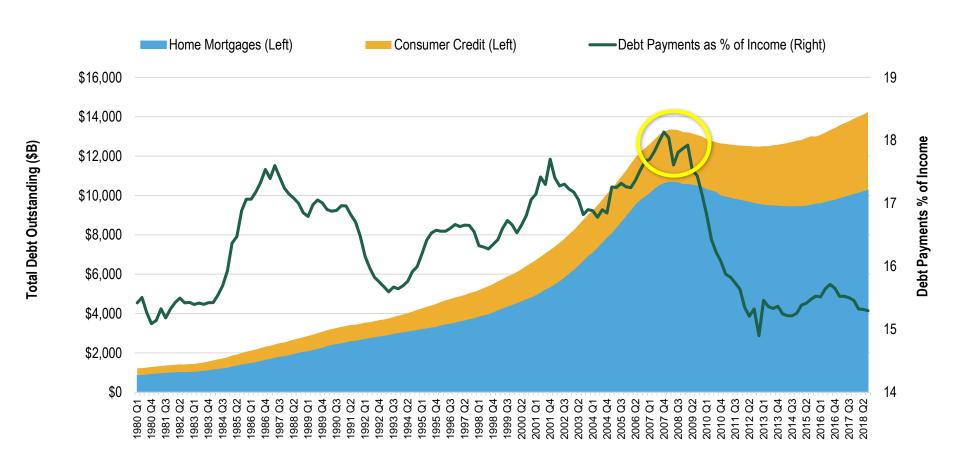


# Result: Risky Mortgages Made Riskier

#### **Types of Mortgages Issued**

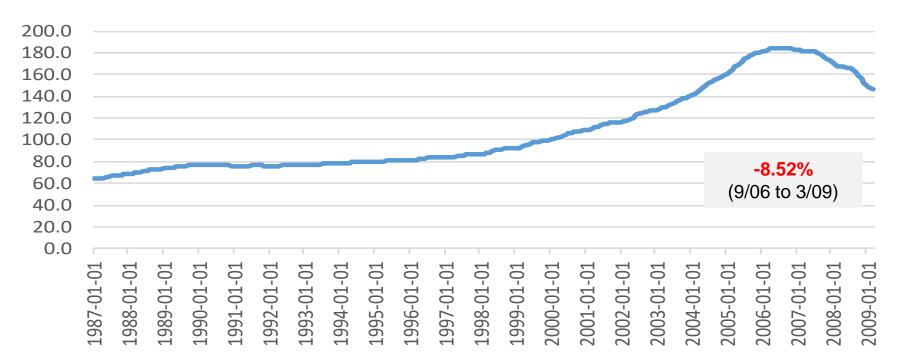


### Result: Overextended Homeowners...



## **Result: Housing Decline**

S&P Case Shiller Home Price Index: 1987 to March 2009



Source: FRED

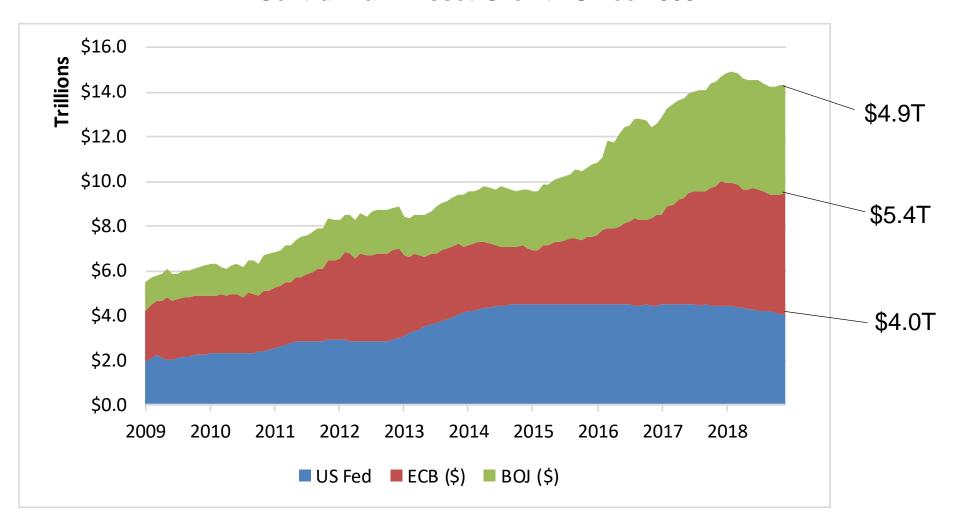
### **Result: Overextended Banks**

Decreased risk in the financial system

Bank risk-weighted-capital ratio	2007
U.S.	8.5%
Europe	8.0%
Bank liquid assets as % of short term liabilities	2007
U.S.	41.0%
Europe	35.0%
Bank loan-to-deposit ratio	2007
U.S.	97.0%
Europe	139.0%

# **Fixes: Monetary Stimulus Worldwide**

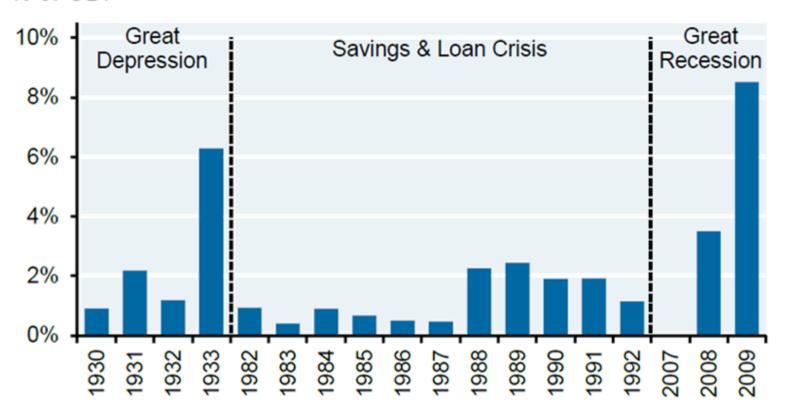
#### **Central Bank Asset Growth Since 2009**



#### **Fixes: Asset Bailout**

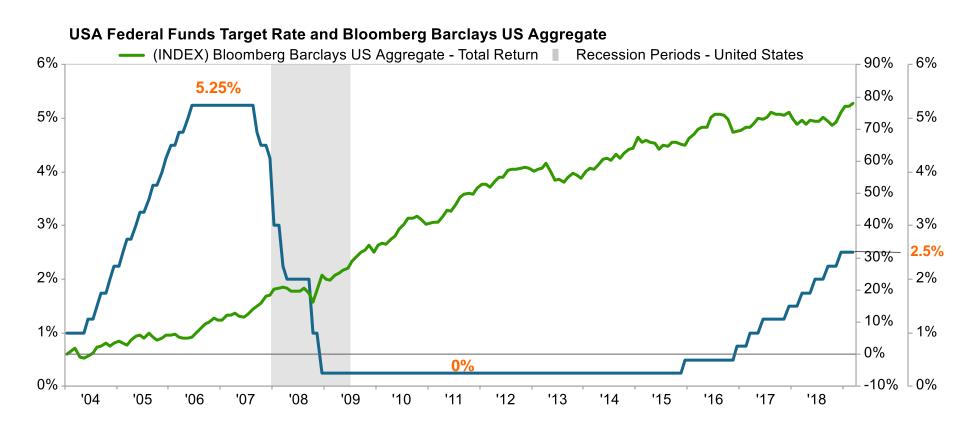
#### Deposits in failed and assisted US banks

% of GDP

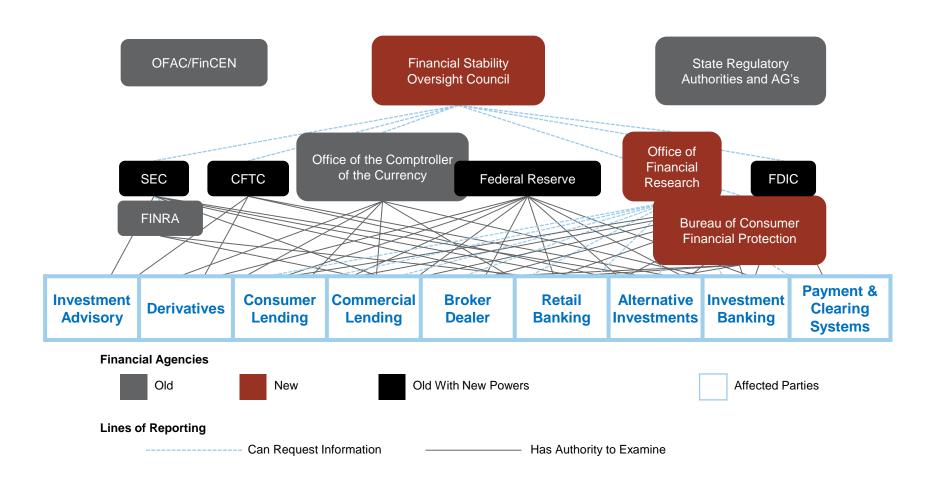


Source: FDIC, BEA, JPMAM, January 2016

# Fixes: U.S. Interest Rates



# **Fixes: Reregulation, Dodd Frank**



Source: Wall Street Journal; JPMorgan Chase

# Fixes: Reregulation Outside U.S.: Basel Accords



- ➤ Basel 1: focused primarily on credit risk
- ➤ Basel 2: focused on credit risk, operational risk, and market risk (Never adopted in US)
- ➤ Basel 3: focuses on lending risks, balance sheet risk, and liquidity risk

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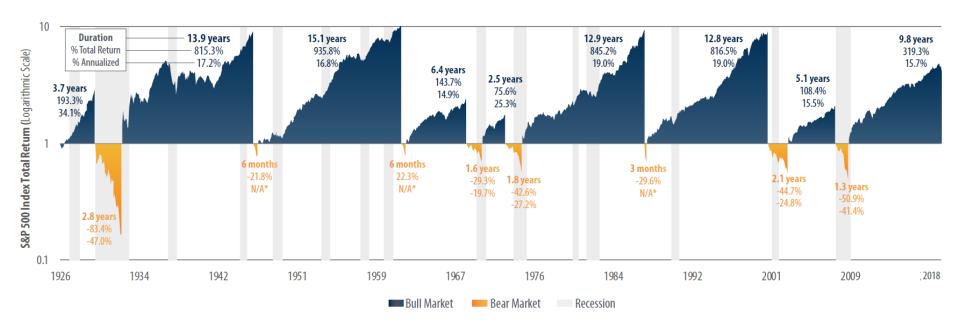
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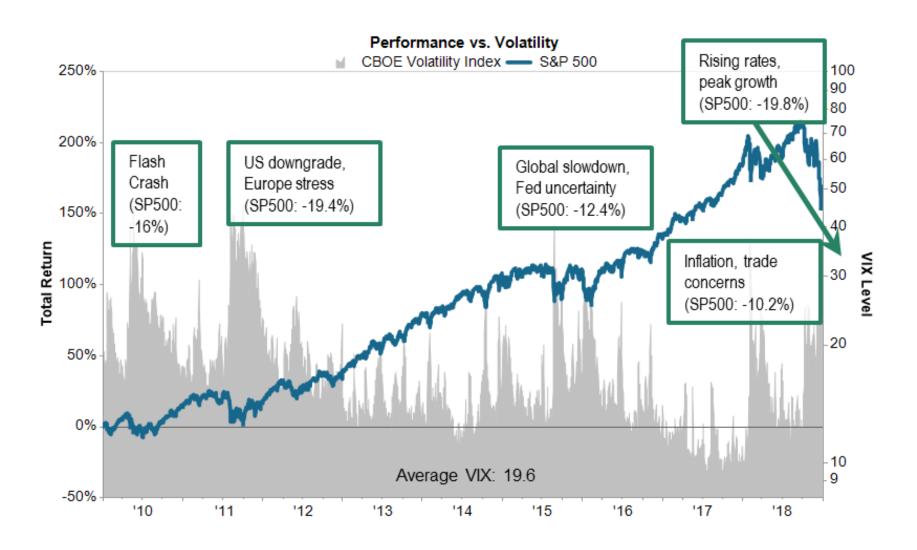
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# **Current Market Cycle**

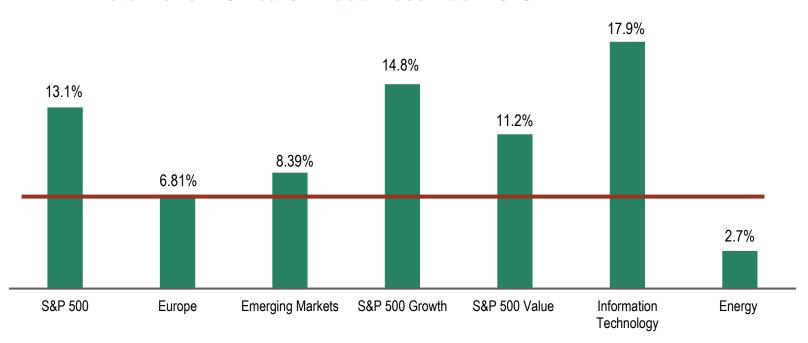


# **U.S. Equity Market Volatility**



# **U.S. Equity Market Dominance**





Long Term Average U.S. Equity Returns 7%

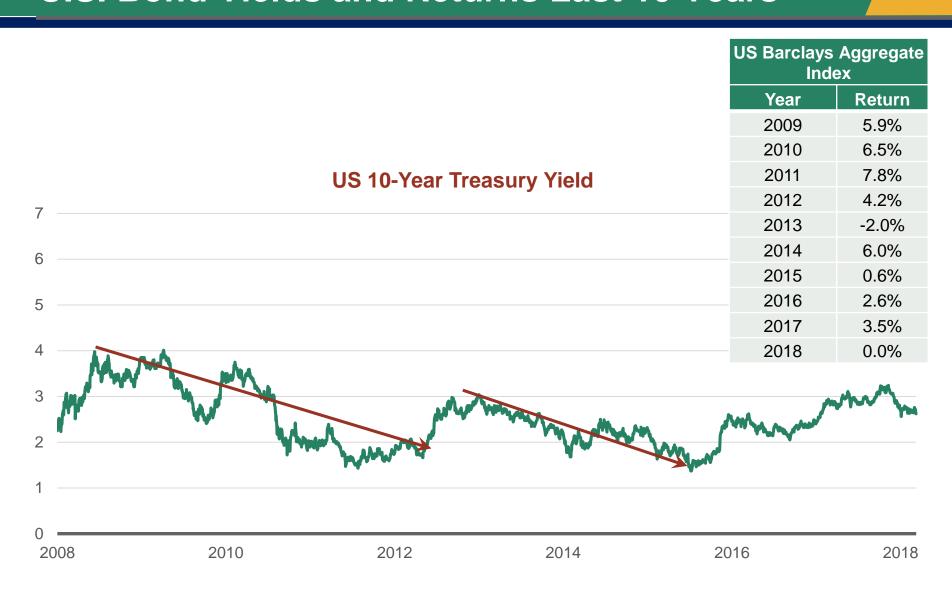
# **Equity Markets Rolling 10-Year Returns**

PERIOD ENDED	WORLD	U.S.	NON-U.S.	EME
June 30, 2017	4.0%	7.3%	1.0%	1.9%
September 30, 2017	4.2%	7.6%	1.3%	1.3%
December 31, 2017	5.0%	8.6%	1.9%	1.7%
March 31, 2018	5.9%	9.6%	2.7%	3.0%
June 30, 2018	6.3%	10.2%	2.8%	2.3%
September 30, 2018	8.6%	12.0%	5.4%	5.4%
December 31, 2018	9.7%	13.2%	6.3%	8.0%
March 31, 2019	12.4%	16.0%	9.0%	8.9%

# **U.S. Equity Market Over the 10-Year Period**

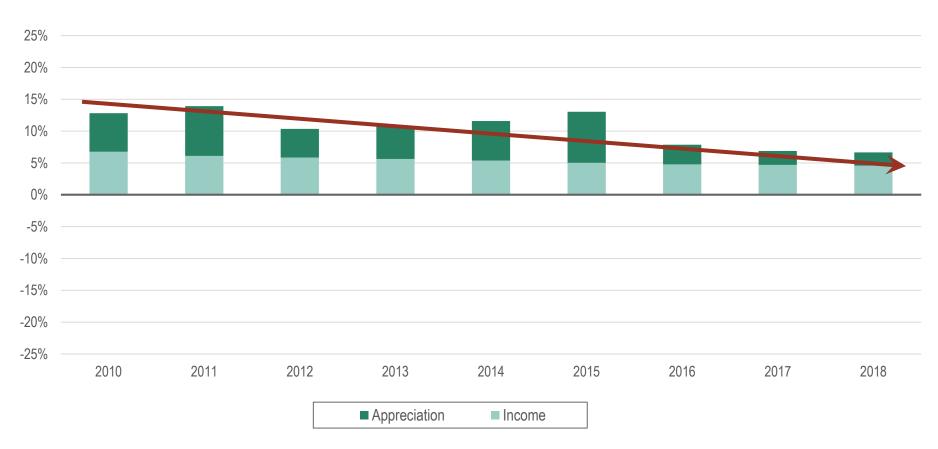


### U.S. Bond Yields and Returns Last 10 Years



# Real Estate Market (2010—2018)

#### **NCREIF Property Index**



# **Historical Optimal Portfolio**

- ➤ Overweight U.S. Large Cap Stocks
- Protection and consistency in U.S. Bond Market
- Solid income and appreciation in the U.S. Real Estate market



## U.S. Portfolio vs. Global Portfolio

#### **U.S. Portfolio**

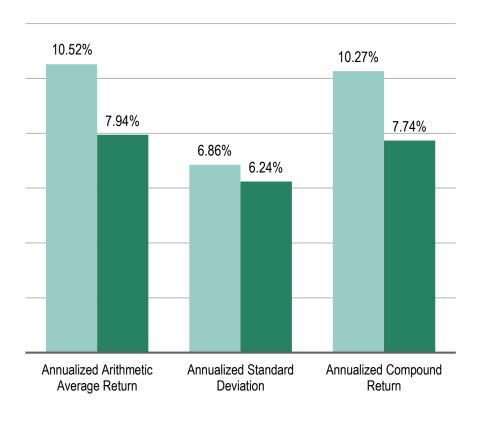
Asset Class	Proxy	Weight
U.S. Equity	S&P 500	60%
Core Fixed Income	Bloom/Barc US AGG	30%
Direct Real Estate	NCREIF Property	10%

#### **Global Portfolio**

Asset Class	Proxy	Weight	
Global Equity	MSCI ACWI	42%	
Global Fixed Income	Bloom/Barc Global Agg	28%	
Direct Real Estate	NCREIF Property	15%	
Private Equity	CA Buyout Index	7.5%	
Hedge Funds	HFRX Global	7.5%	

## Results: 2010 - 2018

#### **Return Risk**

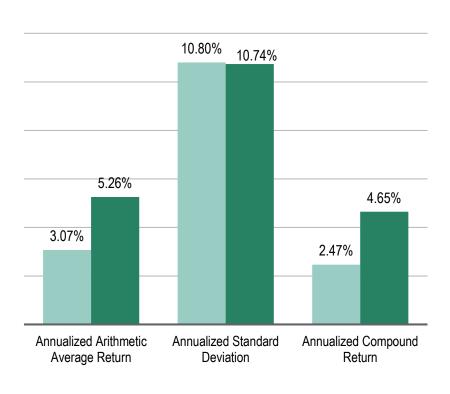


■ U.S. Portfolio ■ Global Portfolio

Source: MSCI, SMA

### Results: 2000 - 2009

#### **Return Risk**



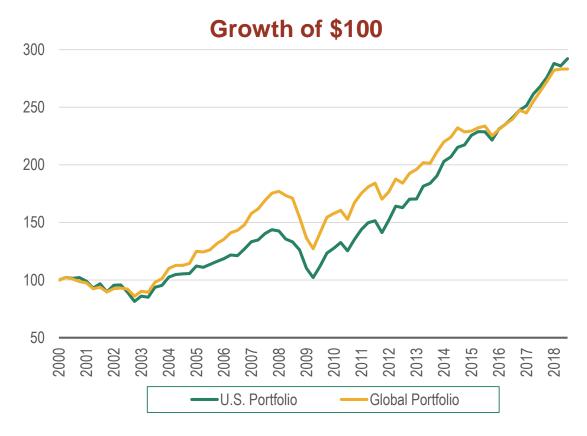
U.S. Portfolio

■ Global Portfolio

Source: MSCI, SMA

Performance period: January 1, 2000 – December 31, 2009.

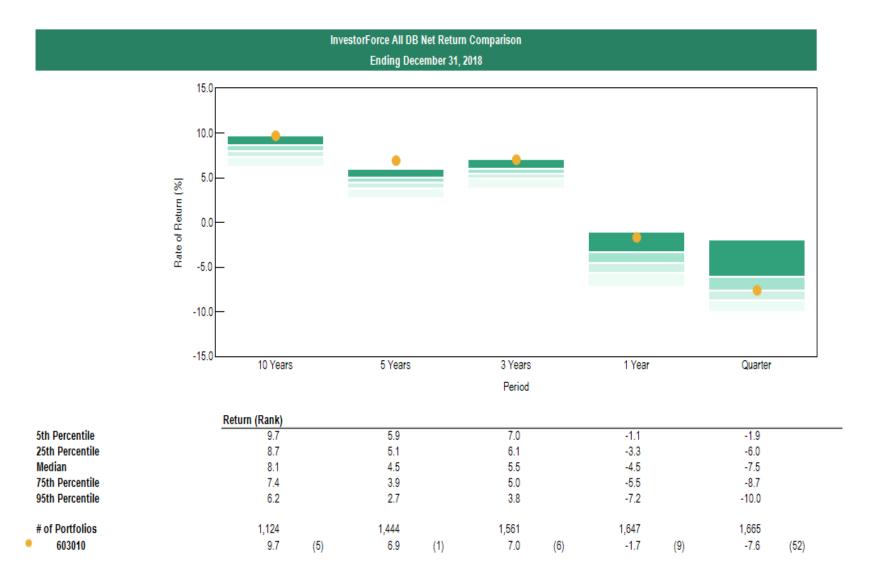
# 2000 to 2018 – Market Snapshots



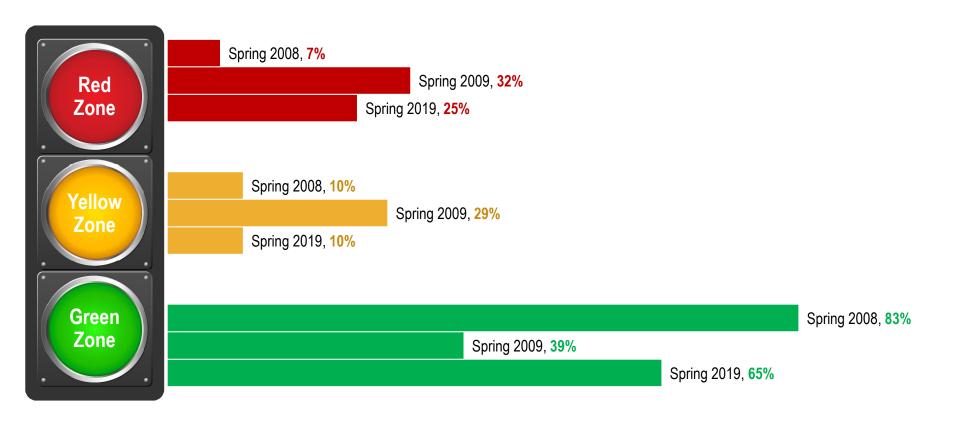
- Overall, Global portfolios and U.S. portfolios performed comparably, over the past 20 years, entering 2019
- However, while their paths were directionally similar, the absolute paths were different

Source: MSCI, SMA.

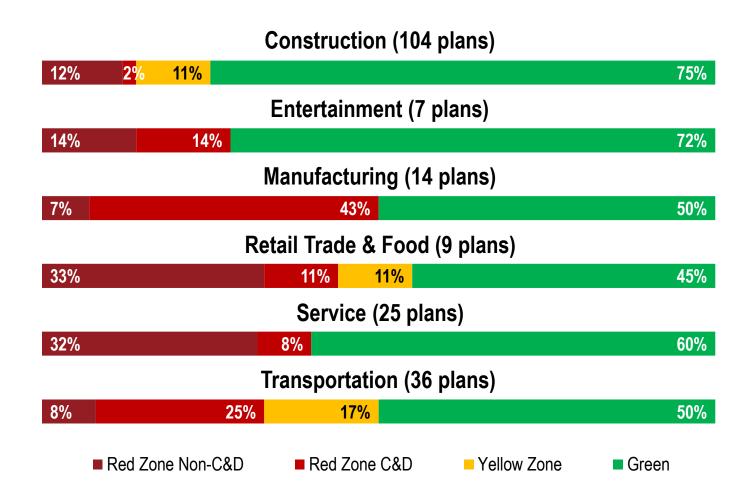
### **Investment Results – Defined Benefit Plans**



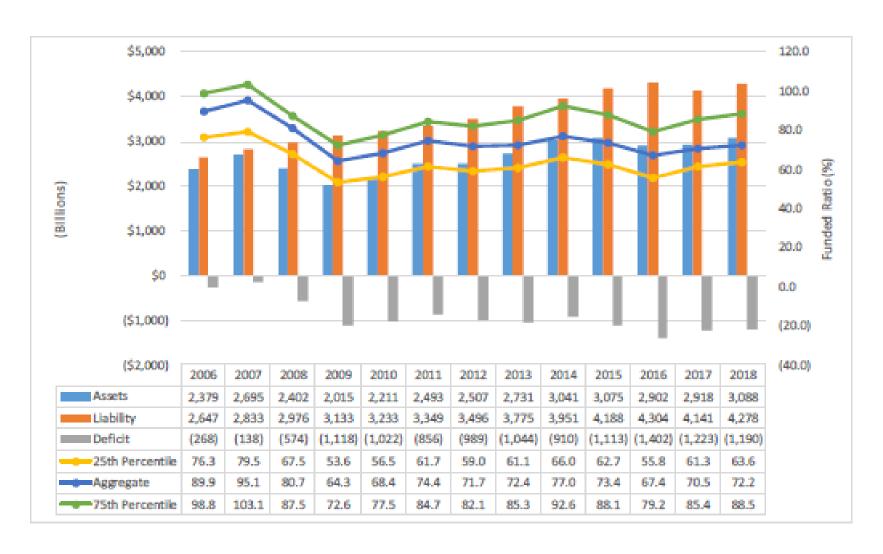
# **Zone Status – Multiemployer Calendar Year Plans**



# **Zone Status – Calendar Year Plans By Industry**



# State Retirement Systems Funding Level



Source: 2019 Wilshire Report on State Retirement Systems: Funding Levels and Asset Allocation

# **Pension Fund Investing**

#### ➤ Overall

- More transparency banks taking less risk
- Rise of alternative lenders shadow banking
- Less liquidity banks less willing to use balance sheet for support
- Increase in compliance and oversight
- Changes to money market regulation and securities lending risk management

#### ➤ Governance

- More de-risking and ultra-"risk" awareness
- Increased interest in outsourcing and discretionary solutions
- Greater attention in reducing actuarial assumption rates
- More legal and due diligence scrutiny

# **Pension Fund Investing**

#### ➤ Portfolio Structure

- Return on capital vs. return of capital
- Lower yield environment led to more diversified fixed income portfolios
- Lack of downside protection led to more passive management in equities
- Focus on lower investment management fees
- Avoid complexity led to less interest in hedge fund investing
- Increased use of private markets
- Growth of Below Investment Grade Bond Market
- Search for more risk controls opportunistic, MACS
- Alternative source of financing private debt
- Cash flow management

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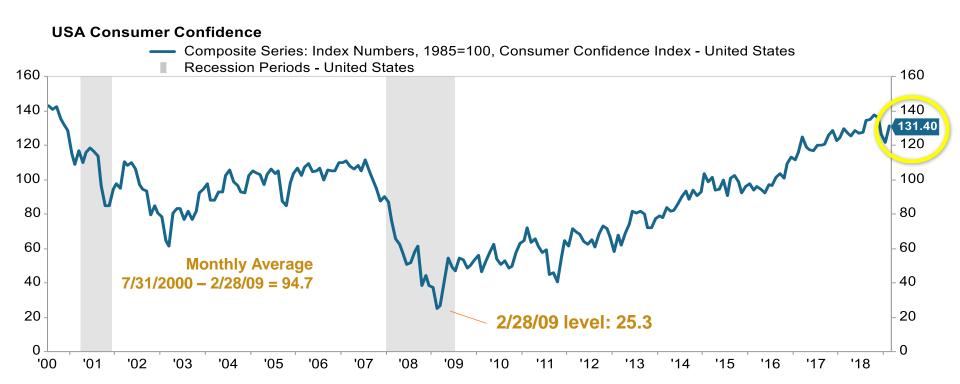
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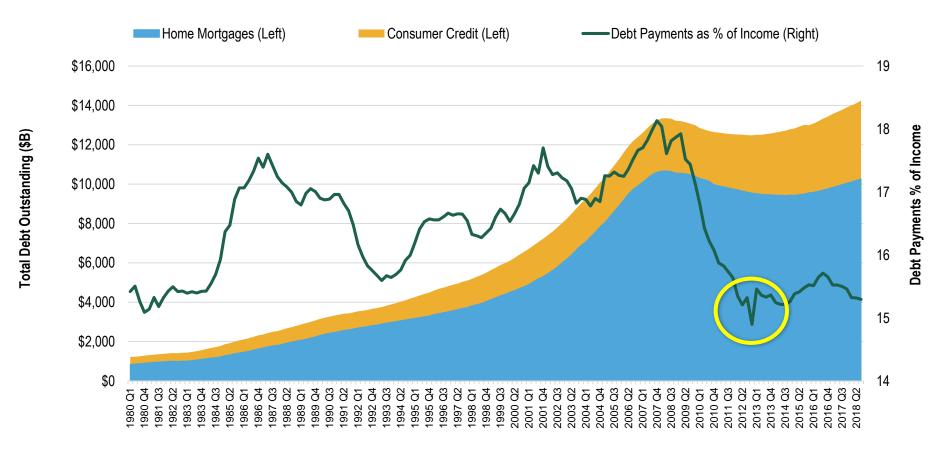
Risks and Opportunities

### **Consumer Confidence Rebounded**



Source: Conference Board, Factset

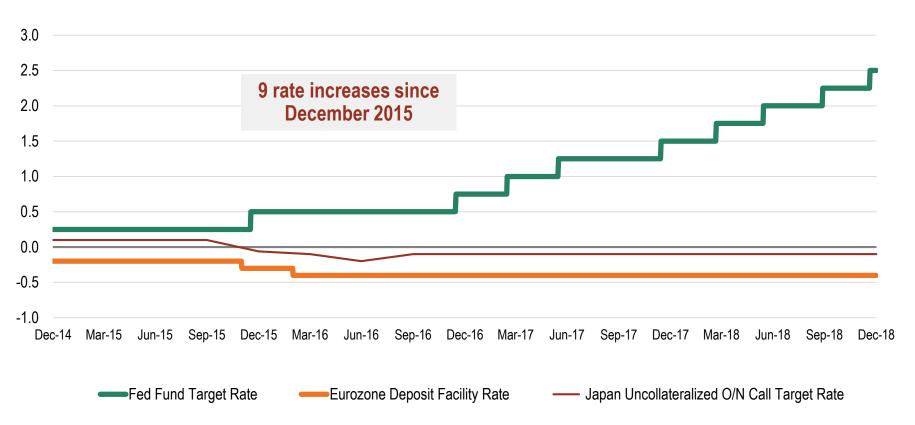
## **Consumer Balance Sheet Deleveraged**



Source: FRED, Federal Reserve

#### **Fixed Income Environment**

#### **Central Bank Target Rates**



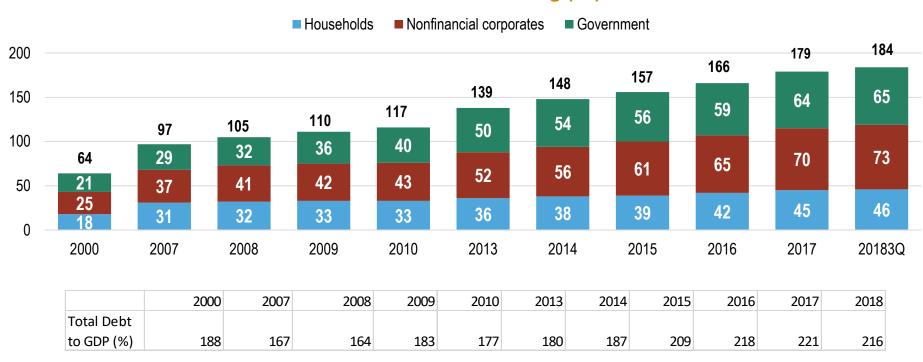
Source: FactSet

# **Current State of Central Banks – Interest Rates**

Central Bank	Rate	Last Change	Direction of Last Change
U.S. Fed	2.50%	12/19/18	
Royal of Australia	1.25%	6/5/19	
Bank of England	0.75%	8/2/18	
Bank of Canada	1.75%	10/24/18	
European Central Bank	0.00%	3/10/16	
Bank of Japan	-0.10%	2/1/16	
Peoples Bank of China	4.35%	10/23/15	

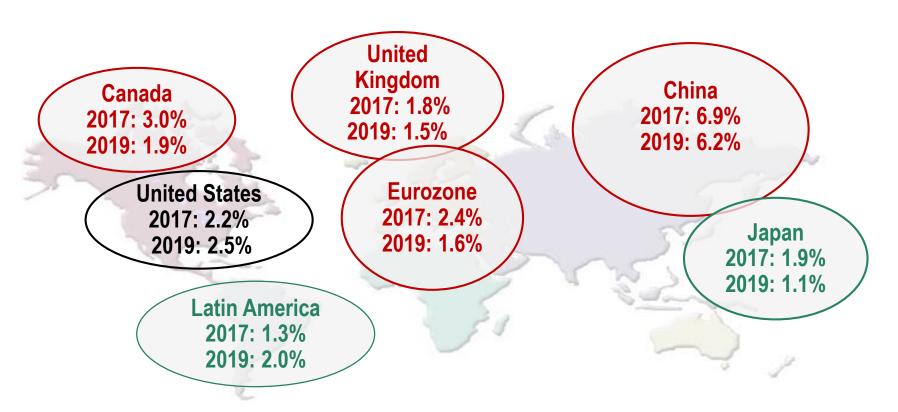
### **Global Debt Continues to Grow**

#### **Global Debt Outstanding (\$T)**



Source: Bank for International Settlements; McKinsey Global Institute

### **Slower GDP Growth Worldwide**



2019 World Economic Outlook with projections 2019

# **Segal Marco Advisors** 2006 vs. 2019 Capital Market Assumptions

	2006 Assumptions		2019 Assumptions		2006-2019 (Difference)	
Asset Class	Standard Deviation (Risk)	Geometric Return	Standard Deviation (Risk)	Geometric Return	Standard Deviation (Risk)	Geometric Return
Cash	2.8%	4.3%	2.5%	3.1%	-0.3%	-1.2%
Core US Fixed Income	8.5%	5.0%	5.5%	3.8%	-3.0%	-1.2%
US Inflation Linked Bonds	5.0%	5.0%	5.5%	3.8%	0.5%	-1.2%
Dev Mkt. Non-US FI	9.5%	4.8%	10.0%	2.9%	0.5%	-1.9%
Real Estate	9.5%	7.3%	11.8%	6.1%	2.3%	-1.2%
High Yield	13.0%	5.9%	10.0%	5.7%	-3.0%	-0.2%
REITs	13.0%	7.1%	17.5%	6.5%	4.5%	-0.6%
Broad US Equity	18.5%	7.9%	17.5%	7.0%	-1.0%	-0.9%
Dev Mkt. Non-US Eq.	22.5%	7.9%	19.0%	7.3%	-3.5%	-0.6%
Emerging Mkt Debt	19.4%	7.0%	11.0%	6.1%	-8.4%	-0.9%
Emerging Mkt Equity	33.5%	9.5%	24.0%	9.4%	-9.5%	-0.1%
Private Equity	35.0%	10.6%	22.5%	10.2%	-12.5%	-0.4%

# **Summary**

- ➤ Volatility is in, and can be our friend
- >Lower return environment
- Fixed income looks more like "fixed" income
- > Equities still command a long term risk premium vs. fixed income
- > Equities challenged to be "kicker" that we are familiar with historically
- The longer term emerging markets growth story is relevant for both equities and fixed income
- Alternatives can provide long term, uncorrelated sources of alpha, especially for those investors who can govern nimbly
- ➤ Real estate and hard assets can still play a role as diversifiers, and/or return enhancers for certain client specific objectives