



**INSURANCE  
INFORMATION**  
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# Property/Casualty 2017: An Overview of the Industry

Western States Surplus Lines Conference  
Las Vegas, NV  
June 12, 2017

James Lynch, Chief Actuary

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212.346.5533 ♦ jamesl@iii.org ♦ [www.iii.org](http://www.iii.org)

# The P/C Insurance Industry: Financial Update & Outlook

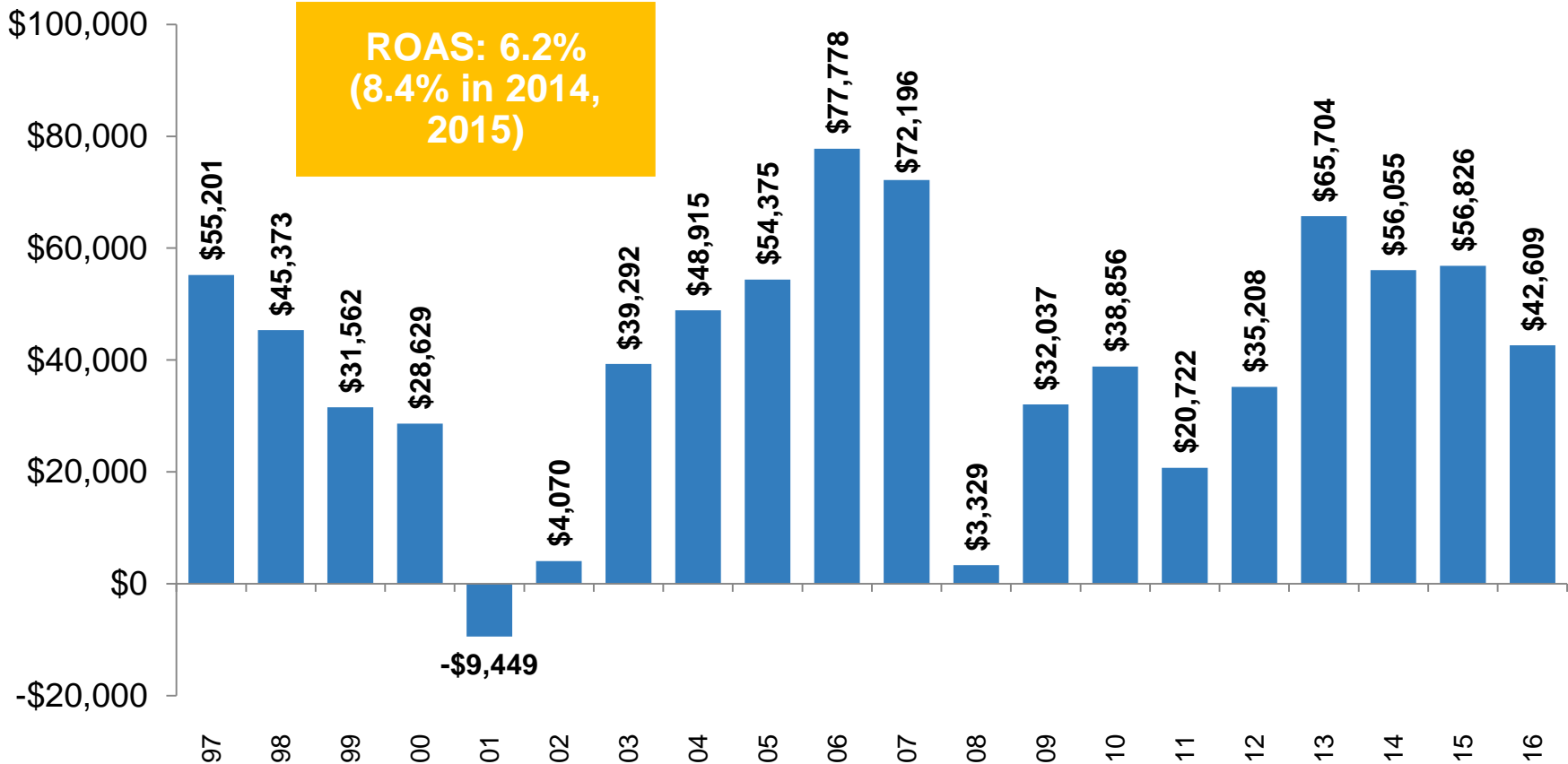
Higher Cats Create Slight U/W Loss

# P/C Industry Net Income After Taxes\*

## 1997-2016

\$ Millions,  
2016 dollars

The median profit for this 20-year period is about \$40 billion.

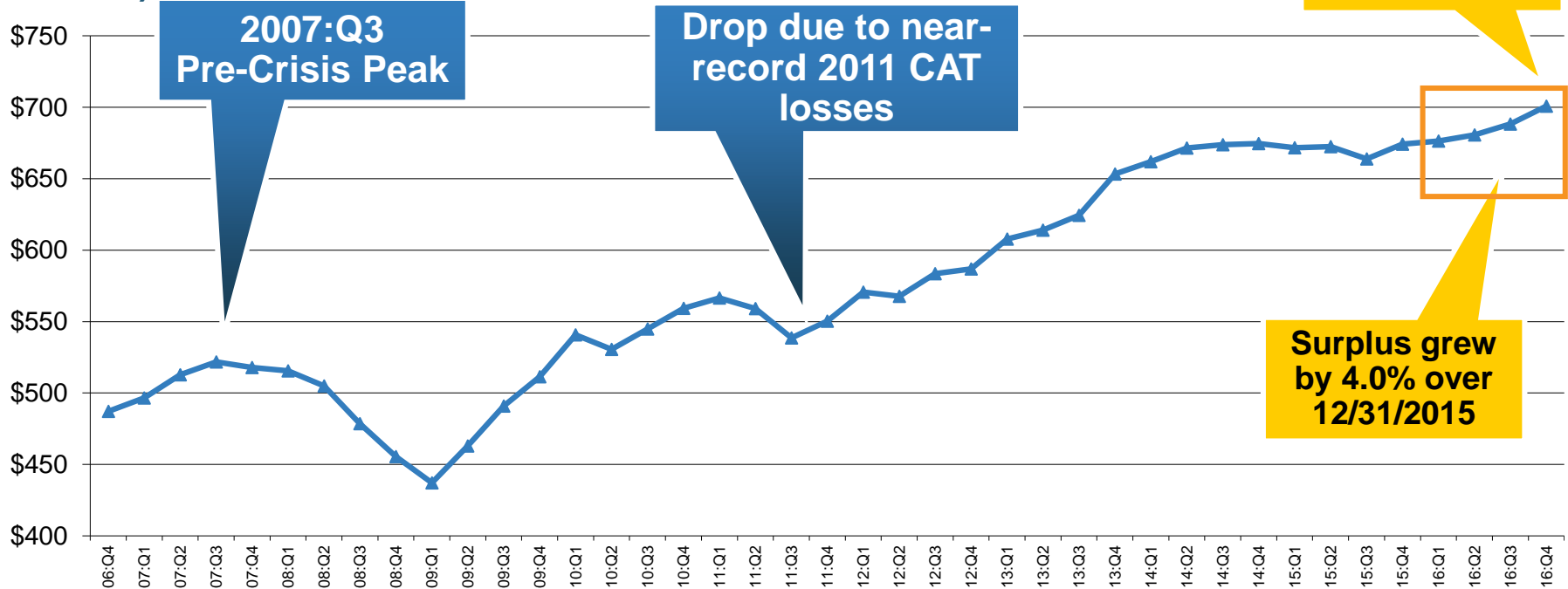


\*adjusted for inflation using the BLS CPI calculator, to 2016 dollars

Sources: A.M. Best; ISO, a Verisk Analytics company; Insurance Information Institute.

# Policyholder Surplus, Quarterly, 2006:Q4–2016:Q4

(\$ Billions)



**The industry now has \$1 of surplus for every \$0.75 of NPW, the strongest claims-paying status in its history.**

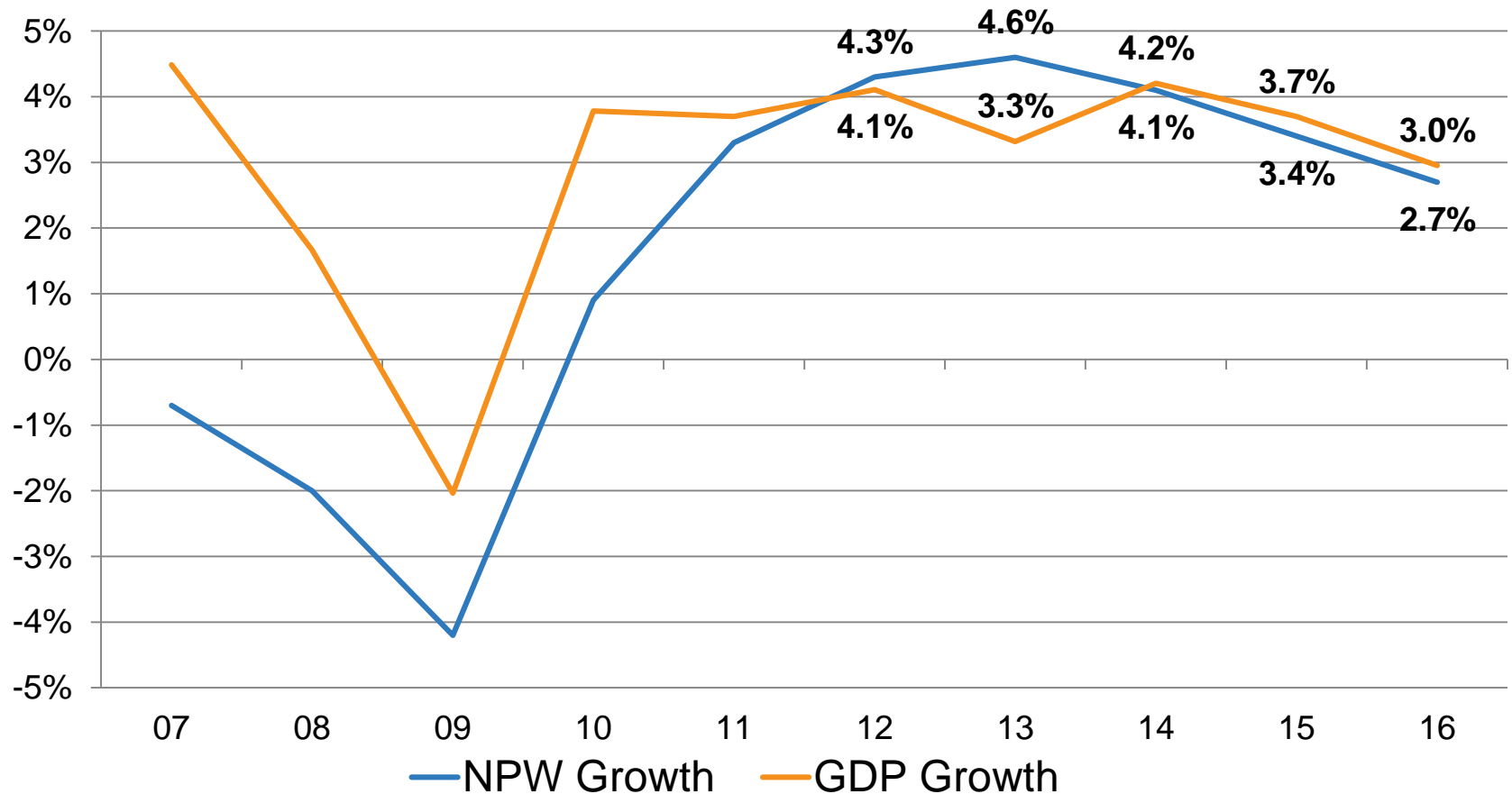
2010:Q1 data includes \$22.5B of paid-in capital from a holding company parent for one insurer's investment in a non-insurance business.

**The P/C insurance industry entered 2017 in very strong financial condition.**



Sources: ISO, A.M. Best.

# Net Premium Growth (All P/C Lines): Annual Change, 2007-2016

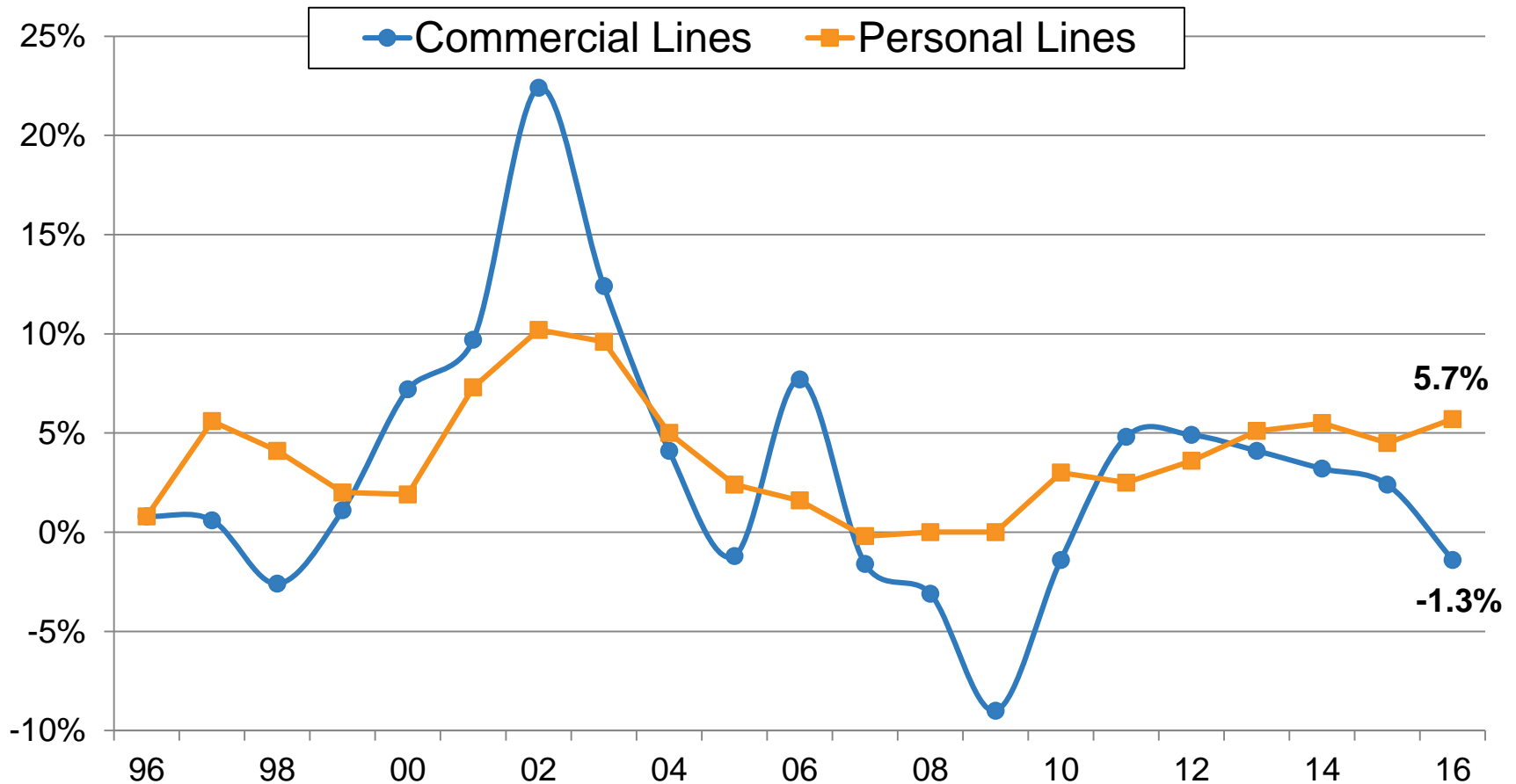


**Premium Growth Has Followed Economic Growth, Inflation.**



SOURCES: A.M. Best (2007-2013), ISO (2014-16), Federal Reserve Bank of St. Louis (FRED), Insurance Information Institute.

# Commercial & Personal Lines NPW Growth: 1996-2016



**Commercial Lines is Prone to Much More Cyclical Volatility Than Personal Lines.**



Note: Data include state funds beginning in 1998.  
Sources: A.M. Best; Insurance Information Institute.

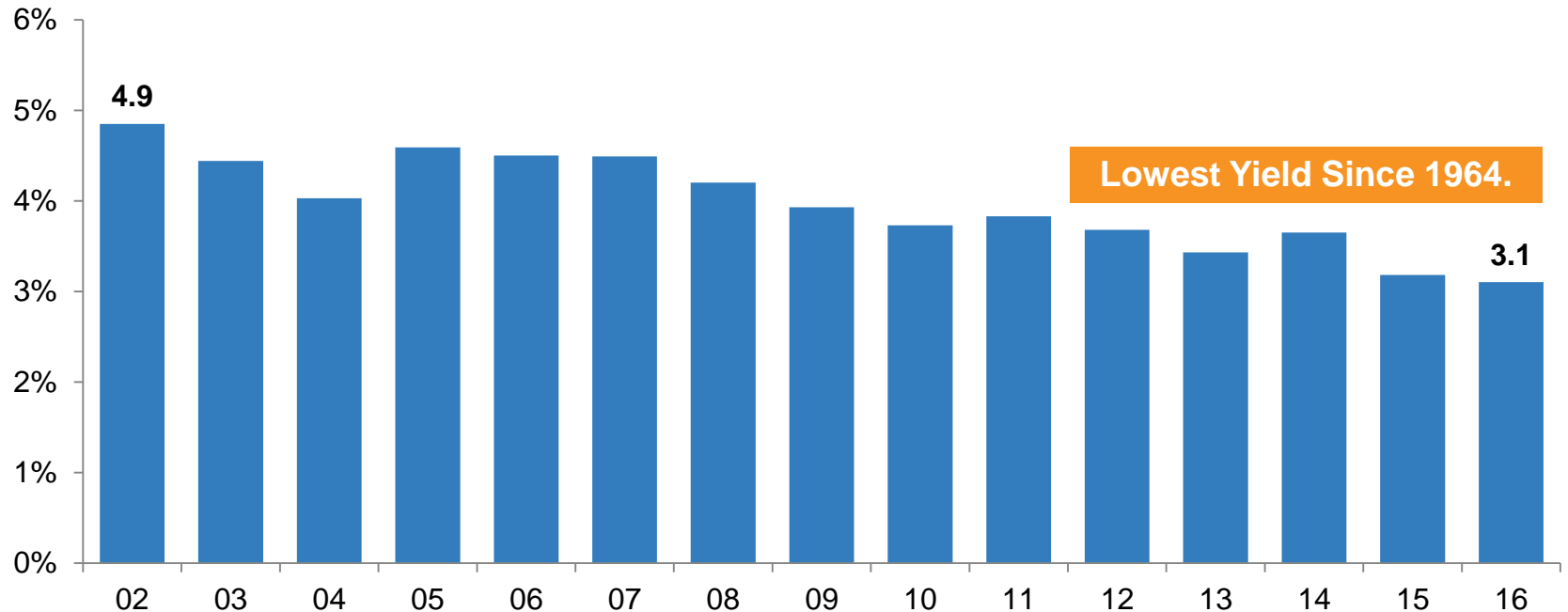
# Investments

Investment Performance is a  
Key Driver of Profitability

Depressed Yields Will Necessarily  
Influence Underwriting & Pricing

# P/C Insurer Portfolio Yields, 2002-2016

(Yield on Invested Assets)



**P/C Carrier Yields Have Been Falling for Over a Decade, Reflecting the Long Downtrend in Prevailing Interest Rates.**

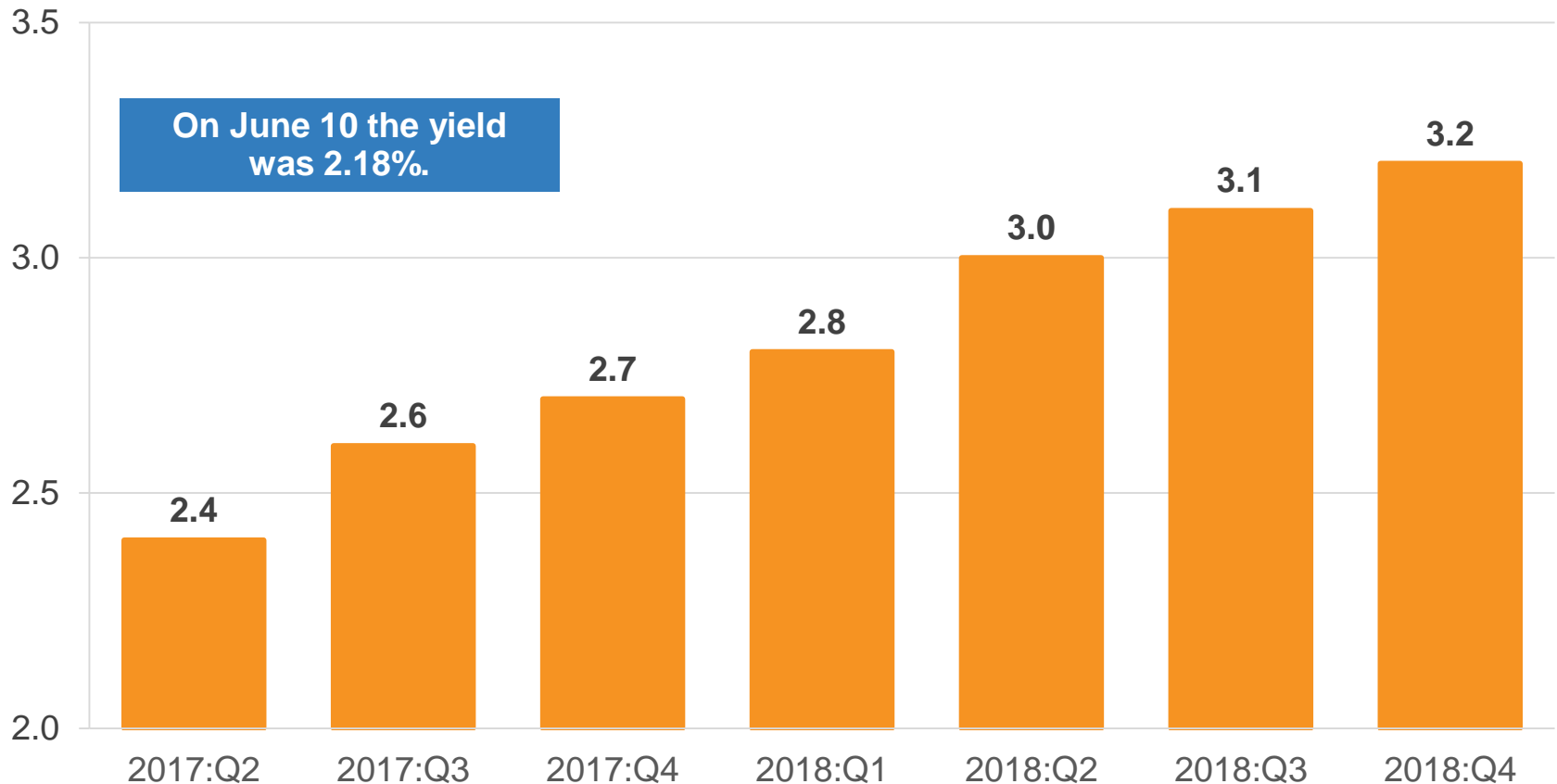


Sources: NAIC data, sourced from S&P Global Market Intelligence; ISO, a Verisk Analytics company; Insurance Information Institute.



# 10-Year Treasury Forecast

Yield (%)

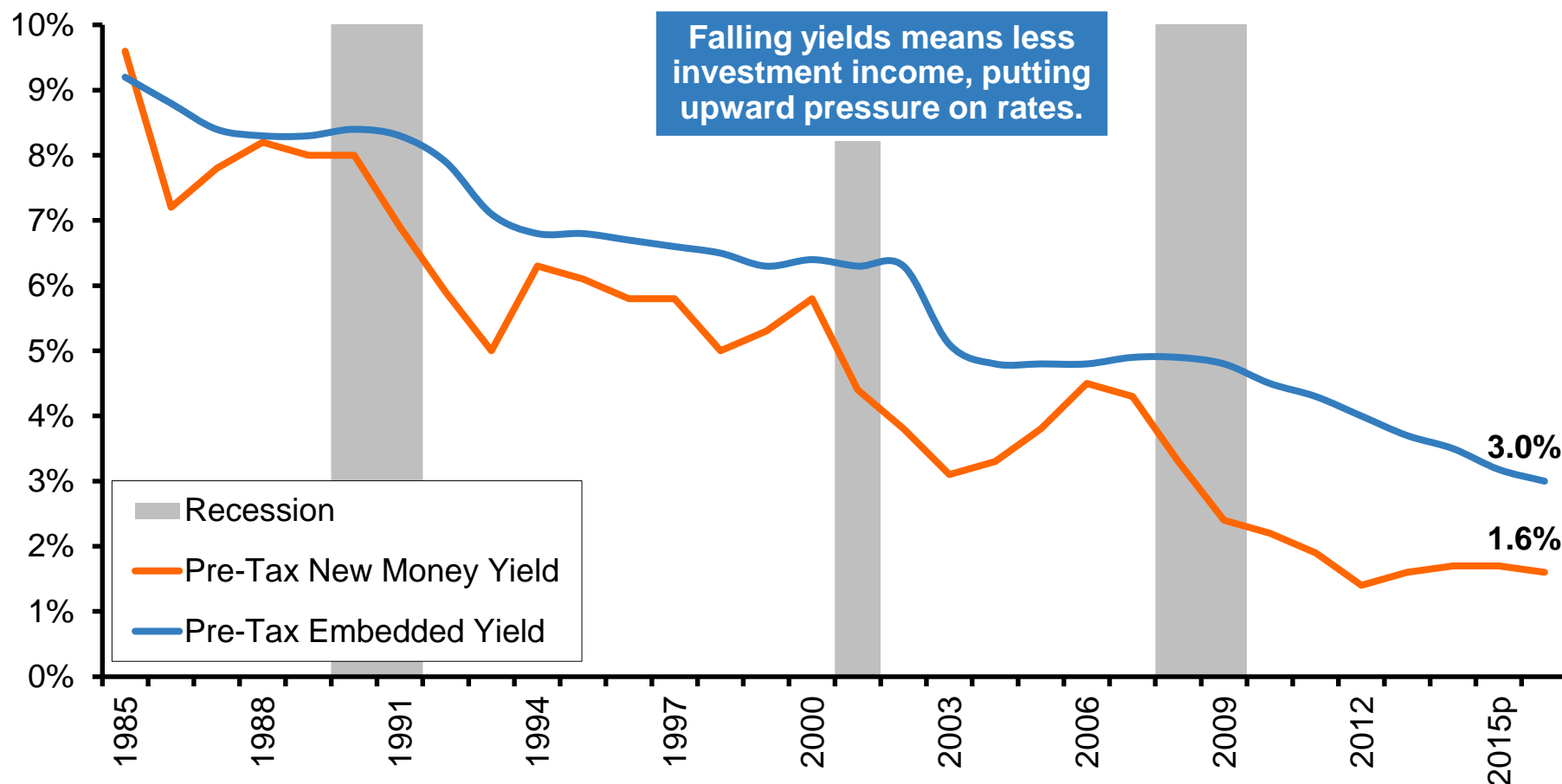


**Virtually all of the 53 forecasts in the Blue Chip survey expect continual increases in the yield of long-term bonds in 2017-18.**



Sources: Blue Chip Economic Indicators (6/10); CNBC.com (June 10 yield); Insurance Information Institute.

# New Money vs. Embedded Yields, U.S. Insurers, 1985-2016



**As long as new money rates are below the rates of maturing bonds, the portfolio yield will continue to sink.**

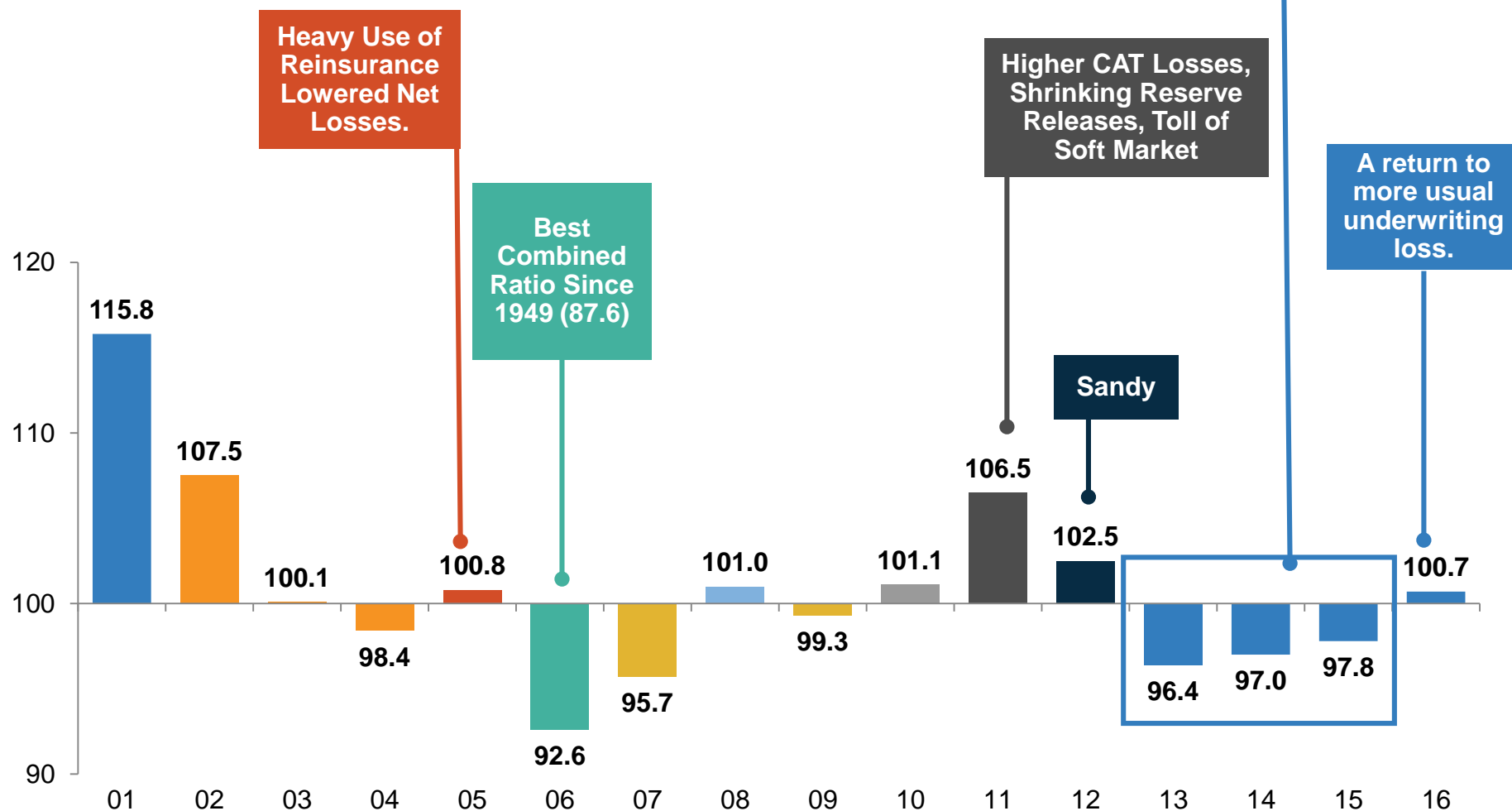
p: Preliminary

Sources: NCCI, ISO, a Verisk Analytics company, U.S. Treasury (5-year note as proxy for new money yield for 2016); Insurance Information Institute.



# Underwriting Performance

# P/C Insurance Industry Combined Ratio, 2001-2016\*



\*Excludes Mortgage & Financial Guaranty insurers 2008-2014.

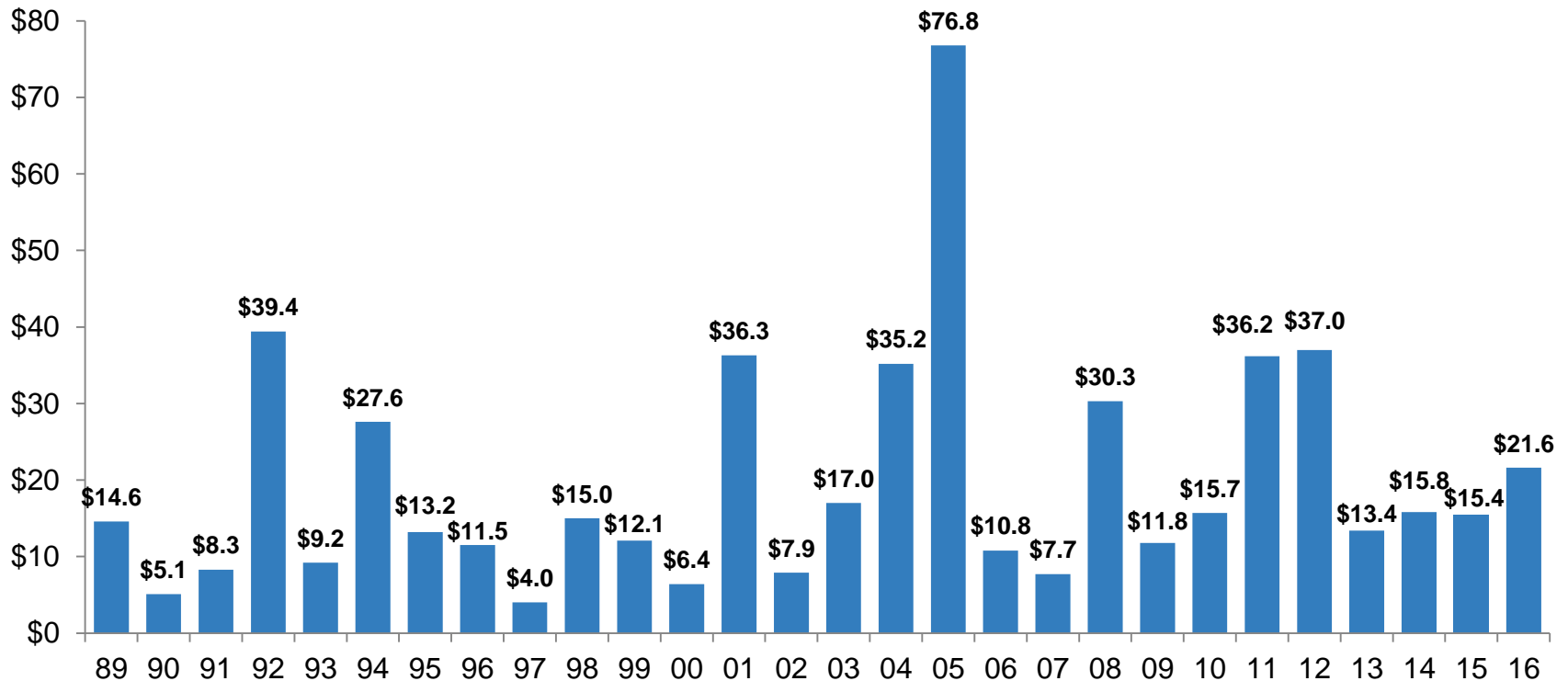
Including M&FG, 2008=105.1, 2009=100.7, 2010=102.4, 2011=108.1; 2012:=103.2; 2013: = 96.1; 2014: = 97.0.

Sources: A.M. Best; ISO, a Verisk Analytics company; I.I.I.



# U.S. Insured Catastrophe Losses, 1989-2016

(\$ billions, 2016 dollars)



**2013/14/15 Were Welcome Respite from 2011/12, Which Were Among the Costliest Years for Insured Disaster Losses in U.S. History. Longer-term Trend is for More – Not Fewer – Costly Events.**

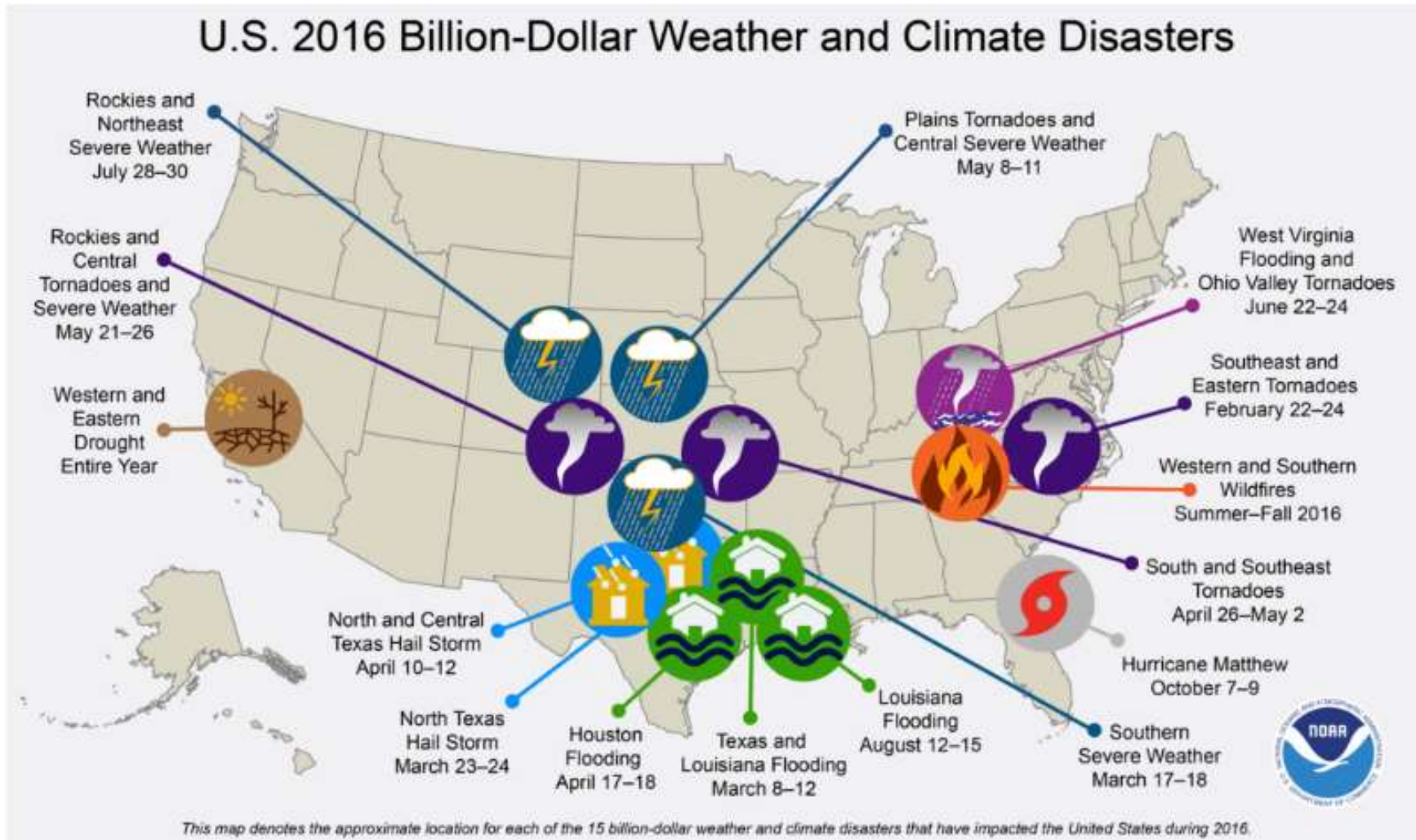
\*2016 estimate is subject to change

Note: 2001 figure includes \$20.3B for 9/11 losses reported through 12/31/01 (\$25.9B 2011 dollars). Includes only business and personal property claims, business interruption and auto claims. Non-prop/BI losses = \$12.2B (\$15.6B in 2011 dollars).

Sources: Property Claims Service, a Verisk Analytics business; Insurance Information Institute.

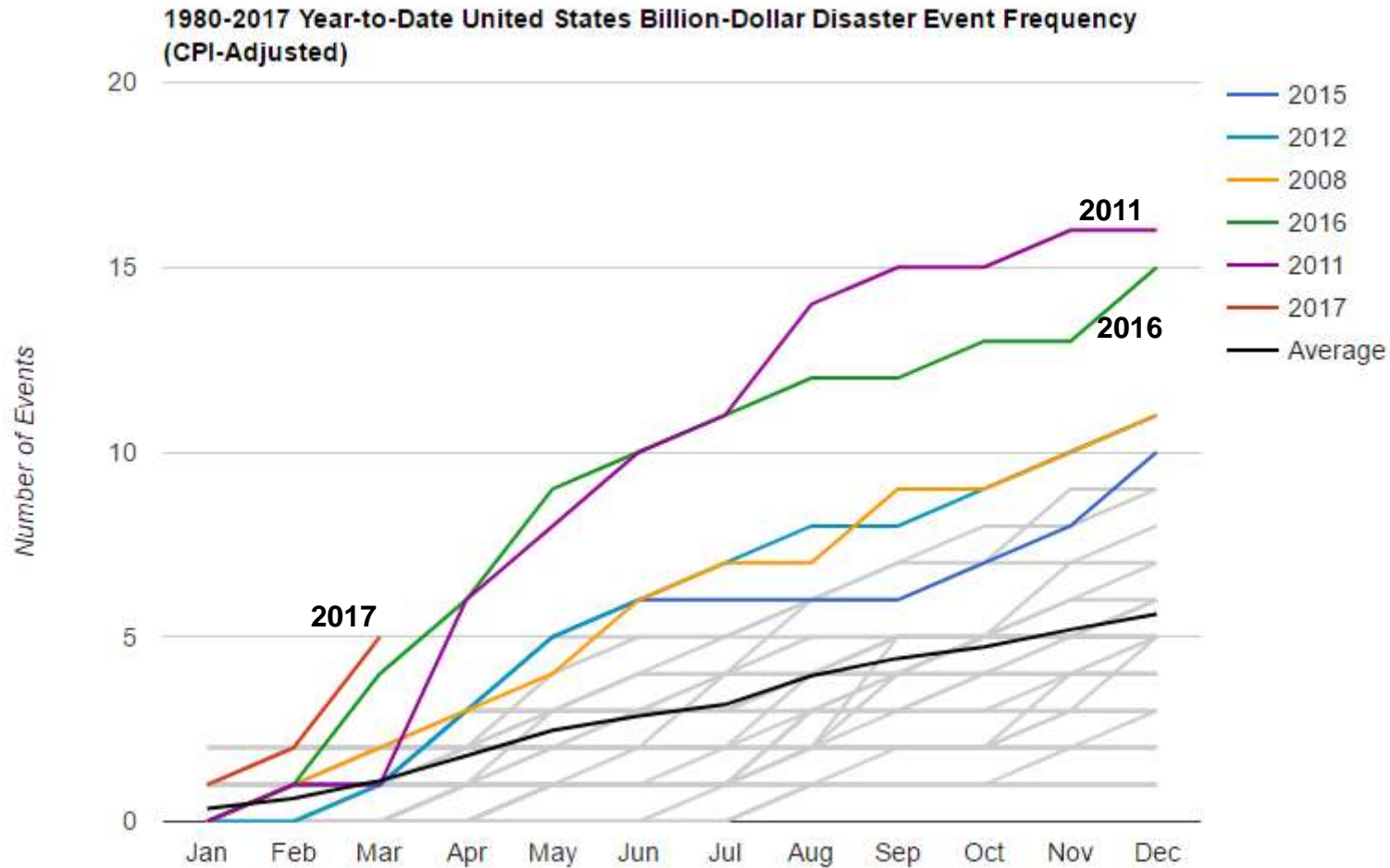


# Billion-Dollar Events



Events with economic costs greater than \$1 billion.  
SOURCE: National Oceanic and Atmospheric Administration.

# Billion-Dollar Events



*Event statistics are added according to the date on which they ended. Statistics valid as of April 6, 2017.*



Events with economic losses greater than \$1 billion, adjusted for inflation.  
SOURCE: National Oceanic and Atmospheric Administration.

# P/C Direct Written Premium by Line

(Billions of Dollars)

LOB	2015	2016	% Chg From Year Earlier
Personal Auto	199.9	214.6	7.3%
Homeowners	93.3	95.7	2.5%
GL (incl Products)	65.7	66.9	1.9%
WC	57.6	58.5	1.6%
Fire & Allied Lines	42.2	40.6	-4.0%
CMP	39.7	39.9	0.6%
Comm Auto	31.3	33.1	5.5%
Other	61.9	63.0	1.8%
<b>Total</b>	<b>591.8</b>	<b>612.3</b>	<b>3.5%</b>

**Auto  
Premiums  
Rising;  
Property  
Falling.**



Sources: NAIC Data, sourced from S&P Global Market Intelligence, Insurance Information Institute.



# P/C Direct Incurred LR by Line

(Billions of Dollars)

LOB	2015	2016	Pt Chg From Year Earlier
Personal Auto	68%	73%	4
Homeowners	50%	53%	3
GL (incl Products)	56%	60%	4
WC	57%	55%	(3)
Fire & Allied Lines	46%	54%	8
CMP	45%	51%	6
Comm Auto	66%	69%	3
Other	43%	46%	3
<b>Total</b>	<b>57%</b>	<b>60%</b>	<b>4</b>

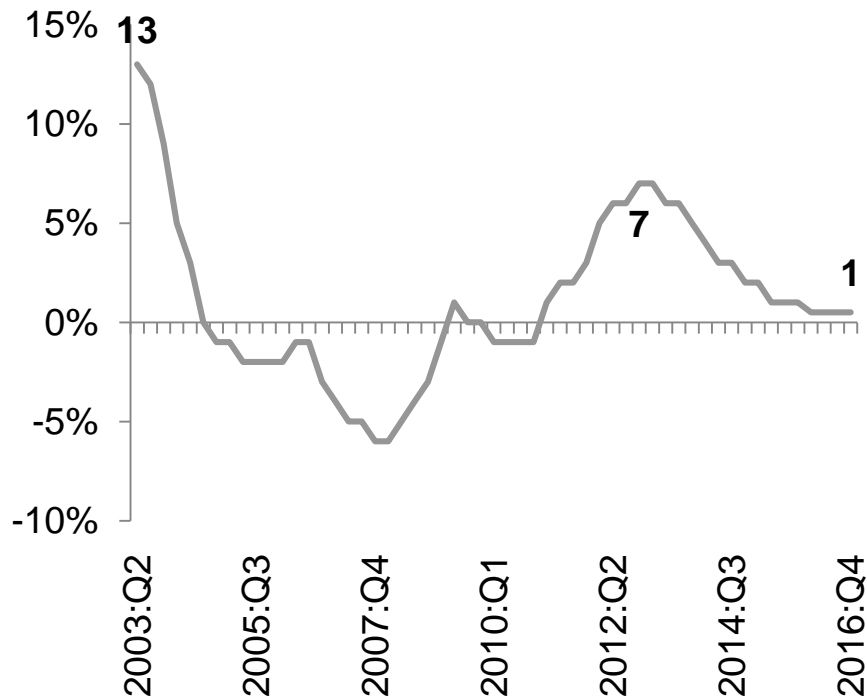
Auto Costs,  
Cats Drive  
Loss Ratios  
Higher.

# Commercial Lines Rates

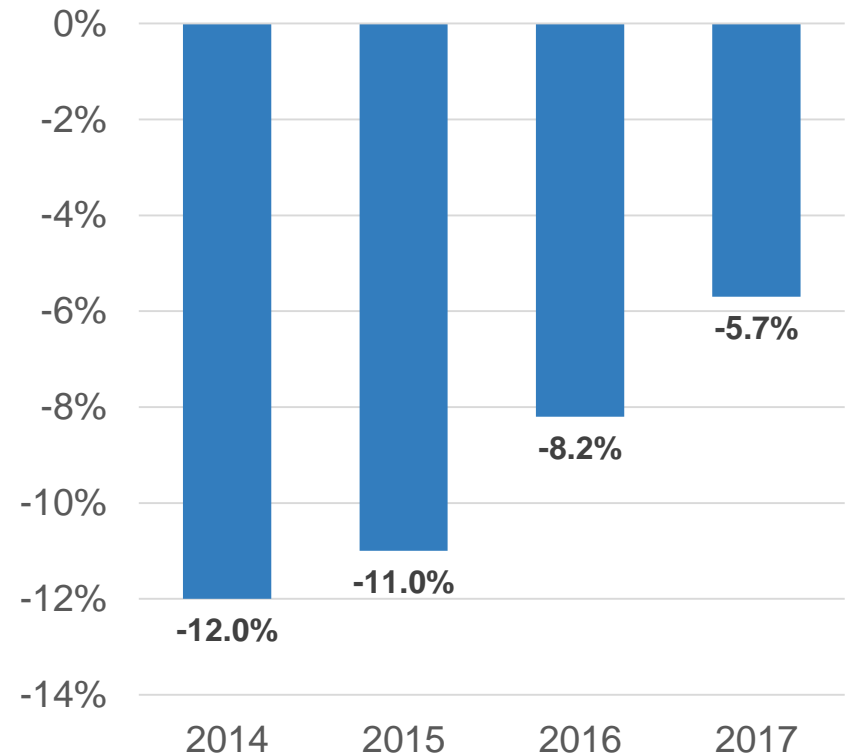
# Rate Changes

Rates Soft/Flat, Especially in Reinsurance

## U.S. Commercial Thru Q4 2016



## Global Reinsurance January Renewals

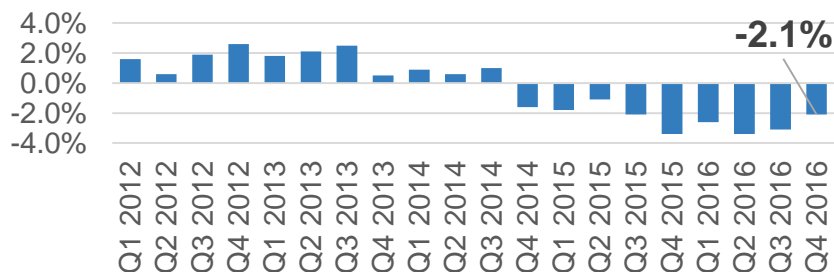


Sources: Willis Towers Watson Commercial Lines Insurance Pricing Survey, Marsh Insurance Market Index, Q4 2016, Insurance Information Institute.

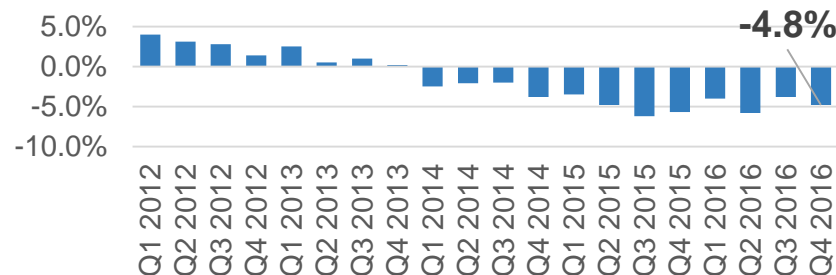
# Rate Changes by LOB Thru Q4 2016

Slight Softening, Though Local Markets Vary

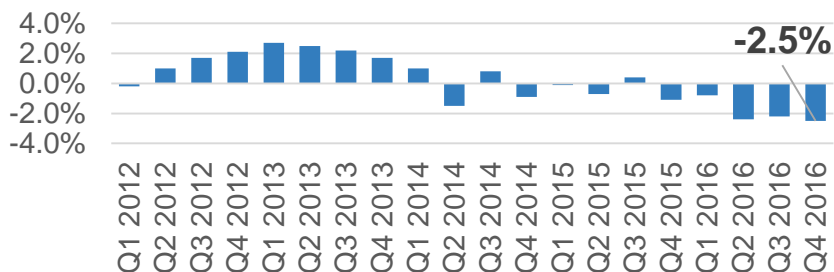
## U.S. Casualty



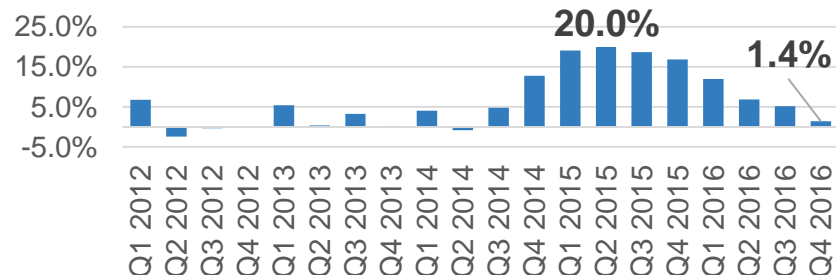
## U.S. Property



## U.S. Financial and Prof Liab



## U.S. Cyber



SOURCE: Marsh Insurance Market Index, Q4 2016

# Commercial Rates (Pacific NW), Q1 2017

## By Account Size

	Down > 10%	Down 1-10%	No Change	Up 1-10%	Up > 10%
Small (<25K)	0%	38%	38%	15%	0%
Medium (25-100K)	0%	36%	43%	14%	0%
Large (100K+)	15%	46%	23%	8%	0%

## By Line of Business

	Down > 10%	Down 1-10%	No Change	Up 1-10%	Up > 10%
Commercial Auto	0%	7%	14%	43%	29%
Commercial Property	0%	50%	36%	14%	0%
Cyber	7%	43%	43%	7%	0%
D&O	0%	15%	62%	8%	8%
General Liability	0%	36%	64%	0%	0%
Terrorism	0%	0%	77%	0%	0%
Umbrella	0%	14%	57%	14%	7%
Workers Compensation	0%	43%	50%	7%	0%

**Rate Changes Can Vary Significantly Within States, Lines of Business or Individual Markets.**



SOURCE: Council of Insurance Agents & Brokers, Insurance Information Institute.

# Politics

Divisions Make Progress Difficult

# Disruption is Everywhere

Catastrophes – Increases in frequency and severity

## Natural Catastrophes



Earthquake

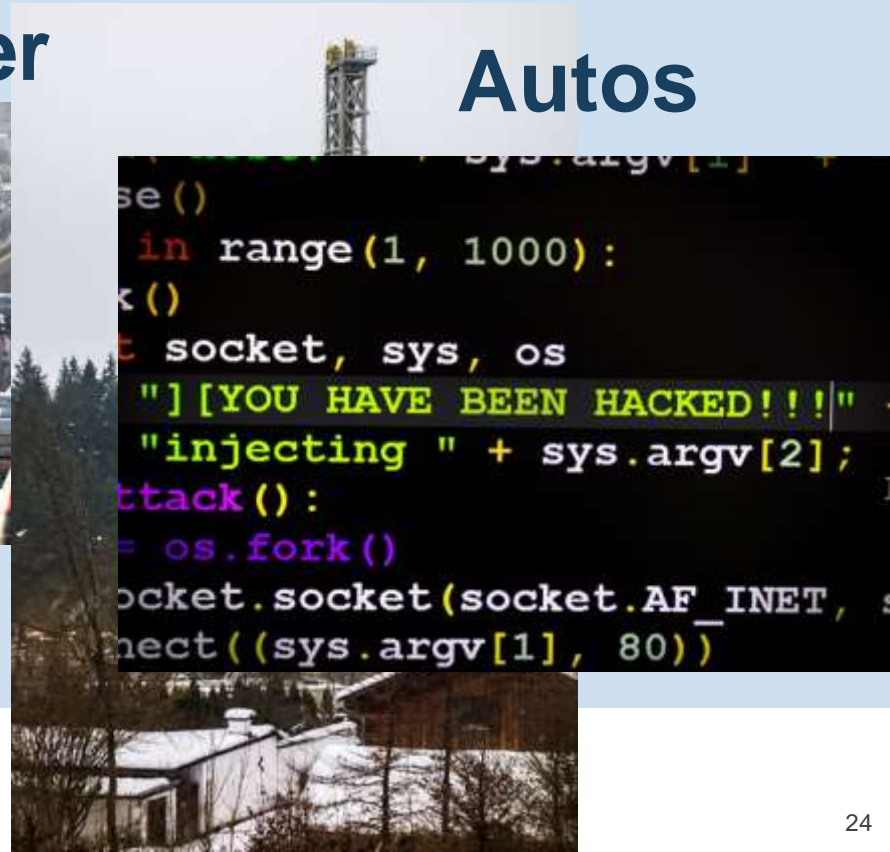
# Disruption is Everywhere

Catastrophes – Increases in frequency and severity

## Man-Made Catastrophes

Cyber

Autos



```
se()  
in range(1, 1000):  
k()  
socket, sys, os  
"[YOU HAVE BEEN HACKED!!!"  
"injecting " + sys.argv[2];  
ttack():  
= os.fork()  
socket.socket(socket.AF_INET, s  
nect((sys.argv[1], 80))
```



**Globalization**

**Geopolitical Polarization**

**Rise of Nationalism**

**Regional  
Tensions**

**Global Trends  
Impacting  
Domestic Market**



**Regulatory Trends**

"Conduct of Business"

Capital/Solvency

Dodd-Frank



\* Mainland purchases of insurance and related investment policies in the nine months ended September 2016 surged to a record high.

# Economic Uncertainty

## Global Growth...

\*Since **2008** we've had the **longest period of relative trade stagnation** since **World War II**...



## US Growth...



Investment  
Growth



## ...Monetary vs. Fiscal Policy

- ♦ **Monetary:** Low interest rates mean insurers are struggling to meet interest rate guarantees for life insurance and annuities must diversify their investment portfolios
- ♦ **Fiscal:** Supply-side debate heating up, i.e., tax reform

# The Trust Gap

## Largest Gaps



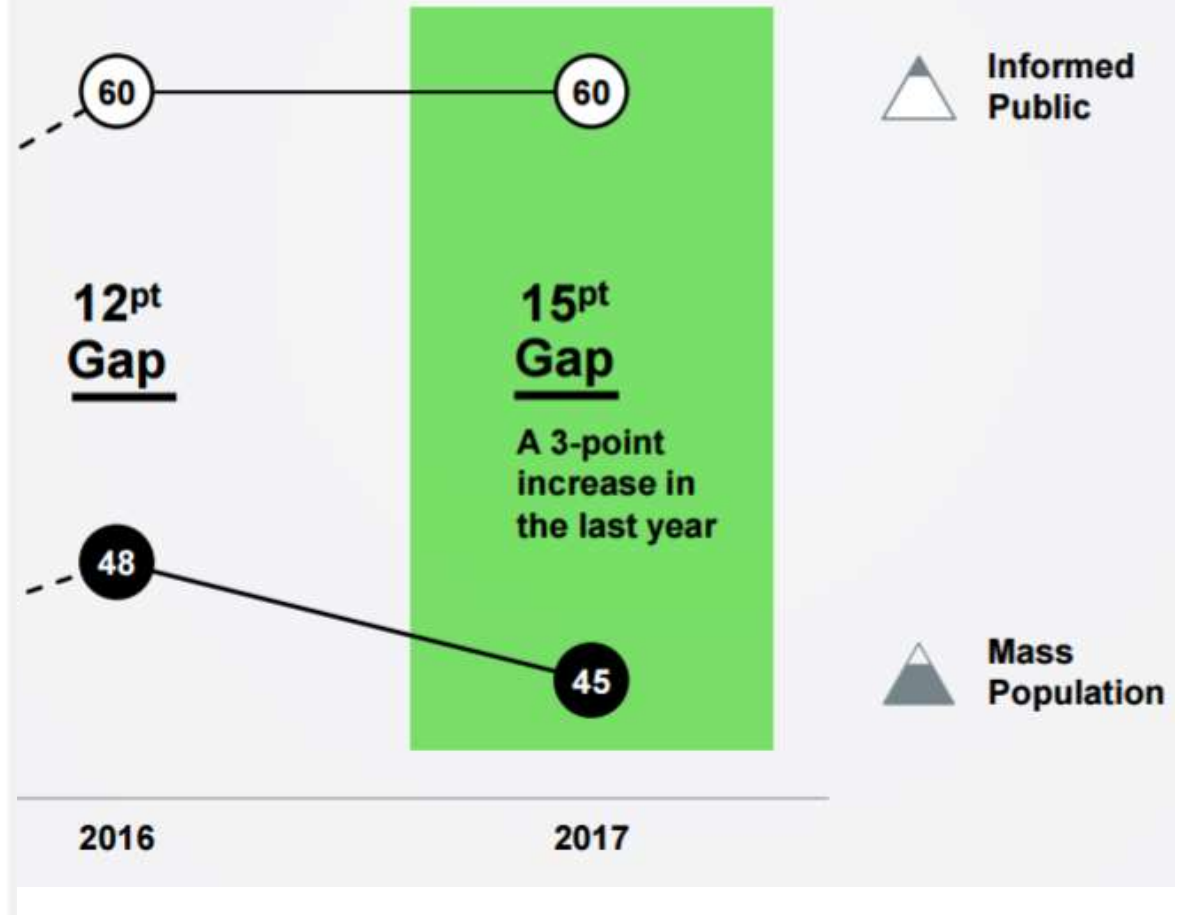
21 pts



19 pts



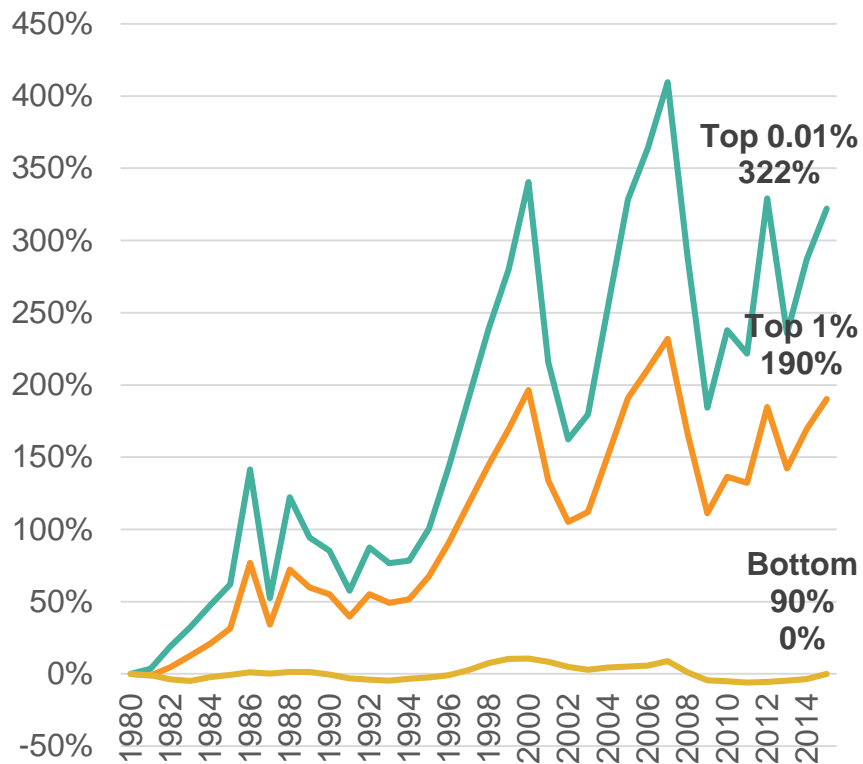
18 pts



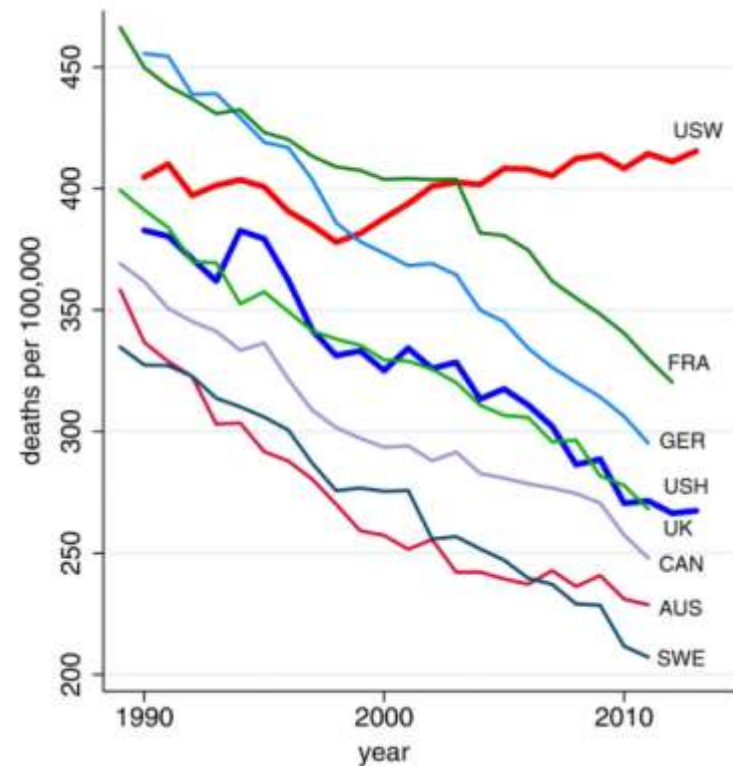
Average of trust in Government, NGOs, Media and Business.  
SOURCE: Edelman Trust Barometer, 2017

# Stagnation's Toll

## Cumul Chg in Real Avg Income

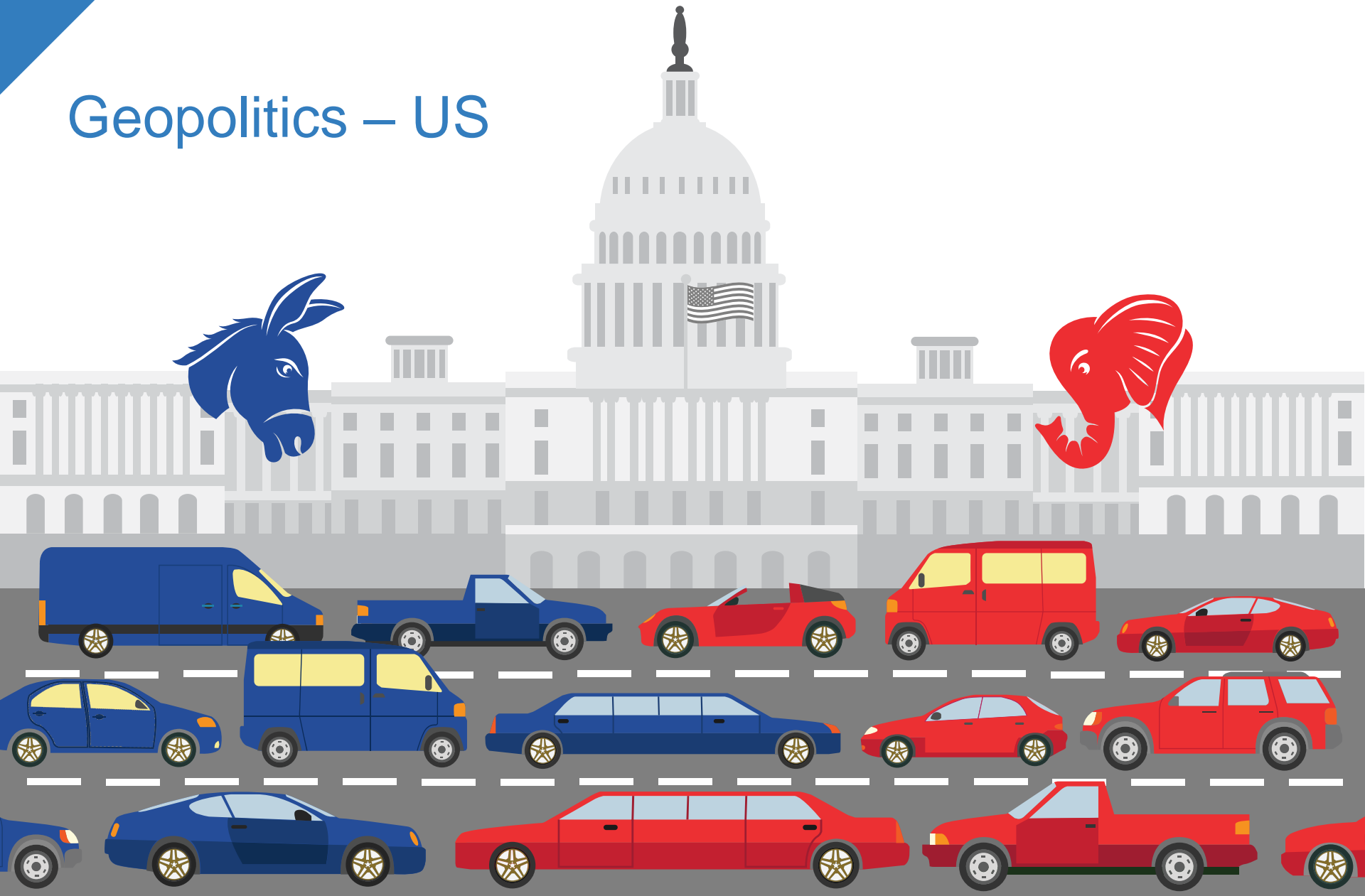


## Death Rates, 45-64



SOURCES: World Wealth and Income Database (from motherjones.com), Insurance Information Institute; Washington Post (from Proceedings of National Academy of Sciences).

# Geopolitics – US



# The 'Bully Pulpit' Evolution

Trump has potential to change the game...



SHARE THIS:



TWITTER



FACEBOOK



EMAIL

FOLLOW US:



TWITTER



FACEBOOK



INSTAGRAM



Donald J. Trump  
@realDonaldTrump

TWEETS 34.3K FOLLOWING 42 FOLLOWERS 19.8M LIKES 46



Follow



Messages

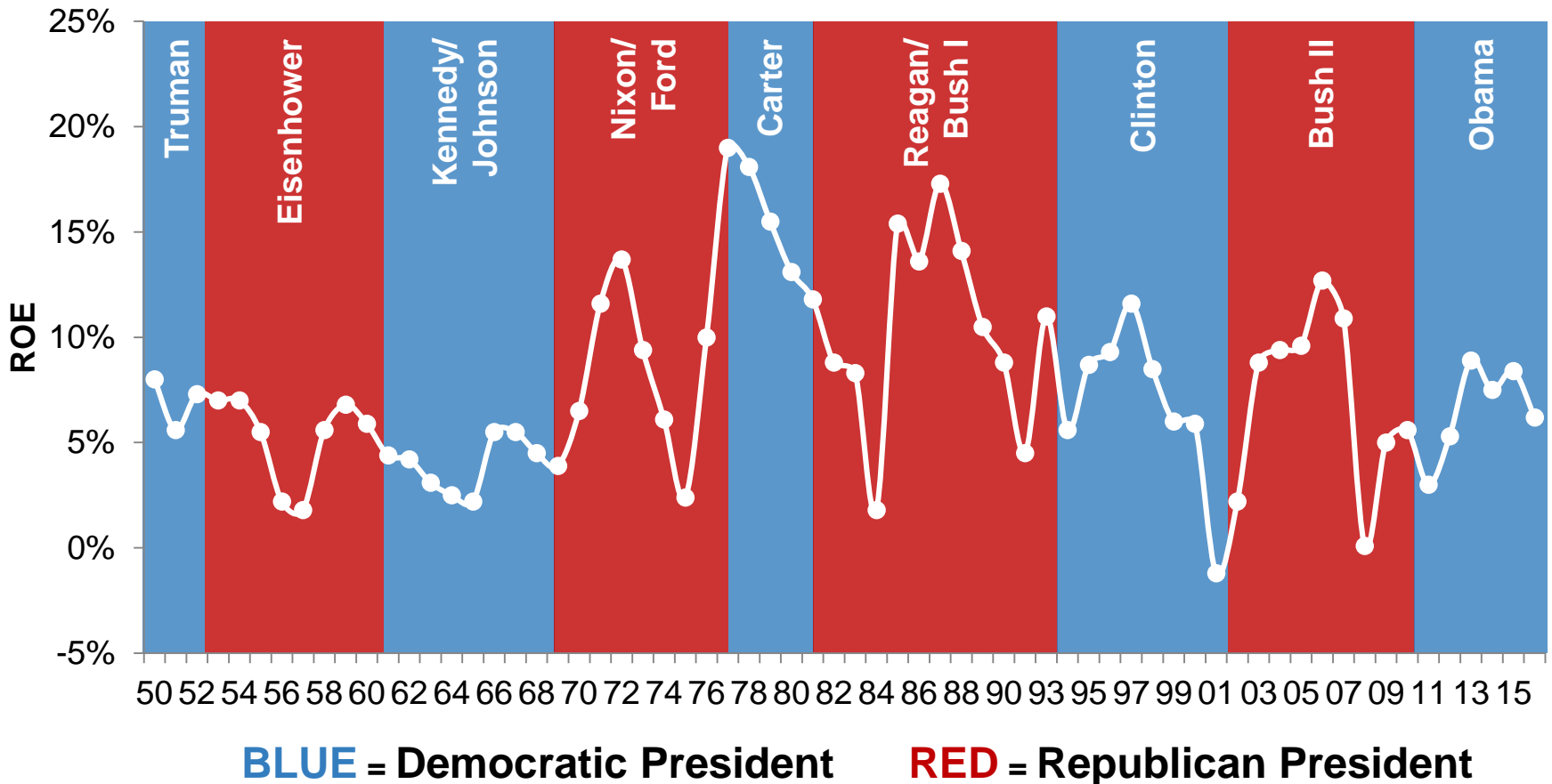


@USTreasSec where is  
#TaxReform? Get R done!

@USAG #Waterboarding  
will #MakeAmericaGreat!

# P/C Insurance Industry ROE by Presidential Party Affiliation

1950-2016\*



\*2016 data is through Q3.

Source: Insurance Information Institute

# Federal and State Issues



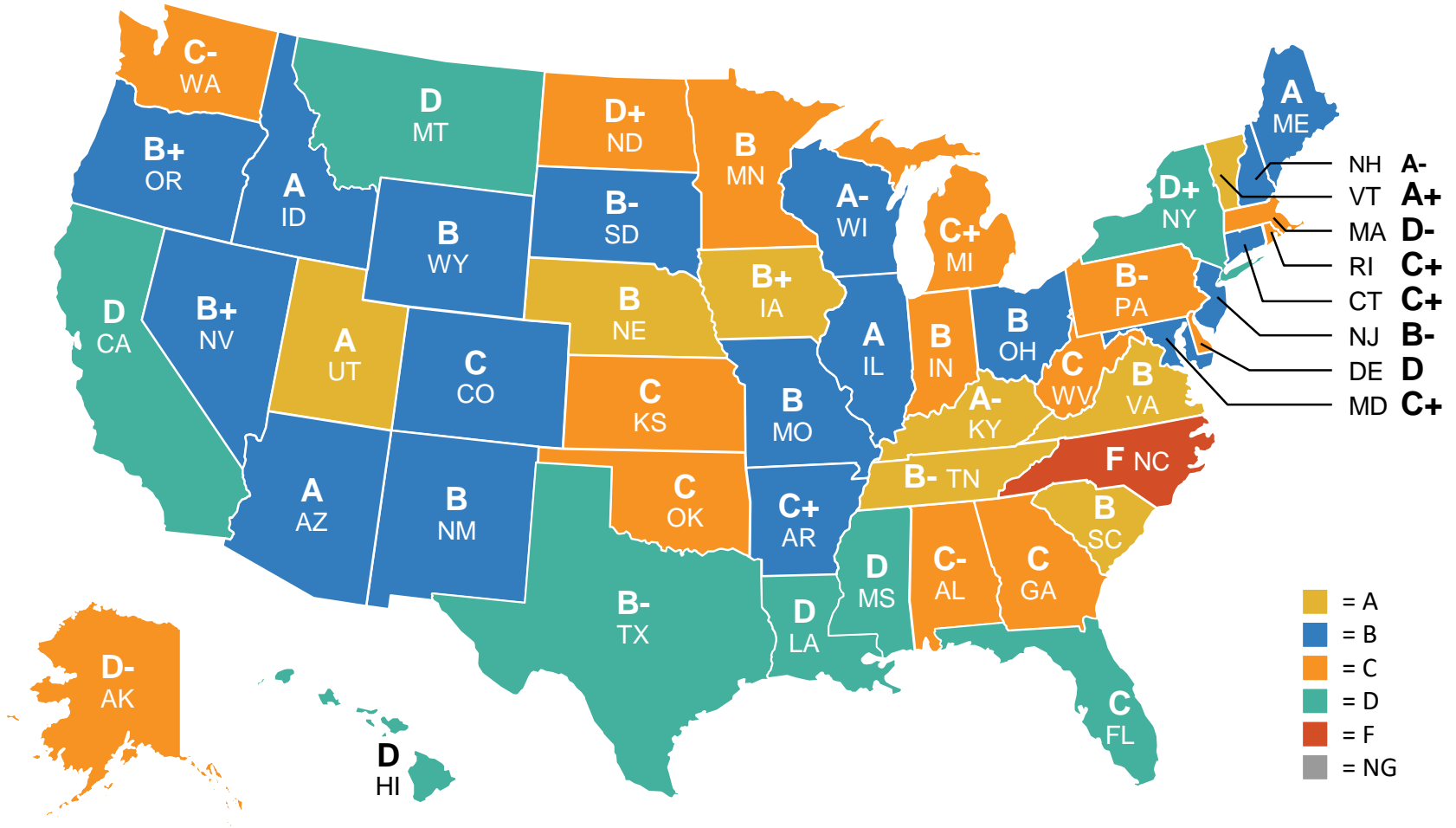
# Affordable Care Act

Going .... Going ... Maybe Not Going Anywhere



# But State Politics Drives Insurance

And Every State is Different



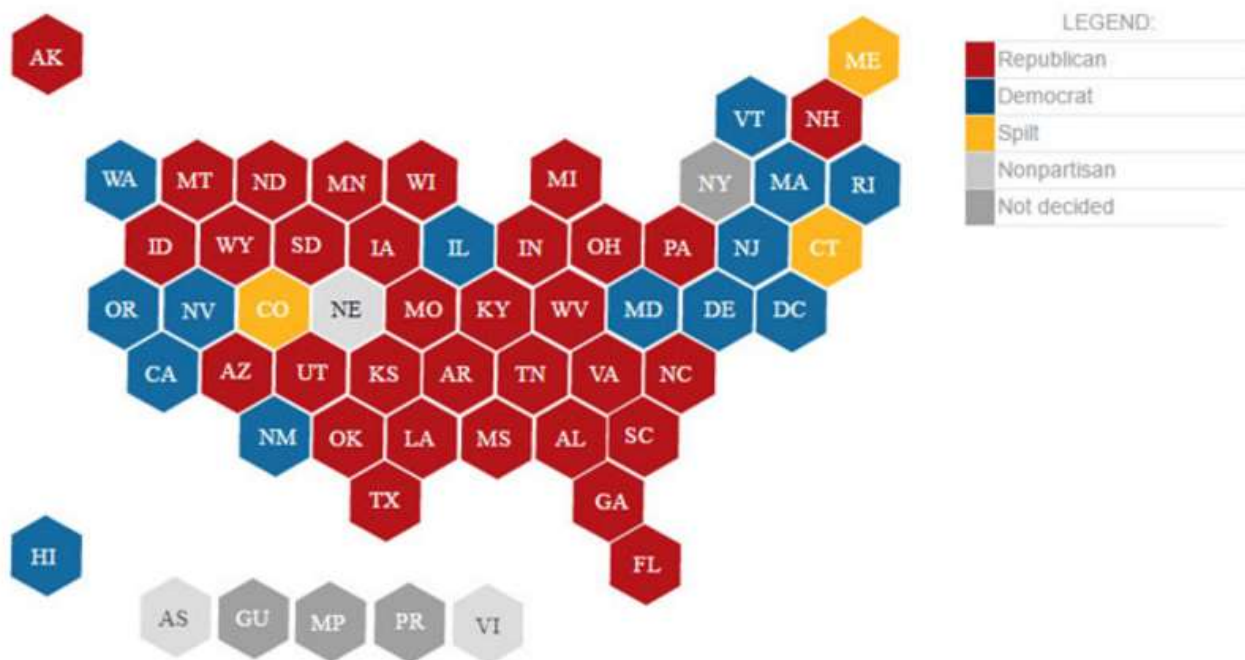
Not Graded: District of Columbia



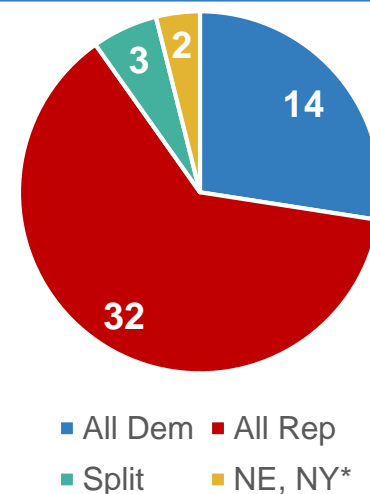
Source: R Street Insurance Regulation Report Card, December 2016

# Republicans Control Most States . . .

In The November Election They Lost One Legislature Overall



## Makeup Today

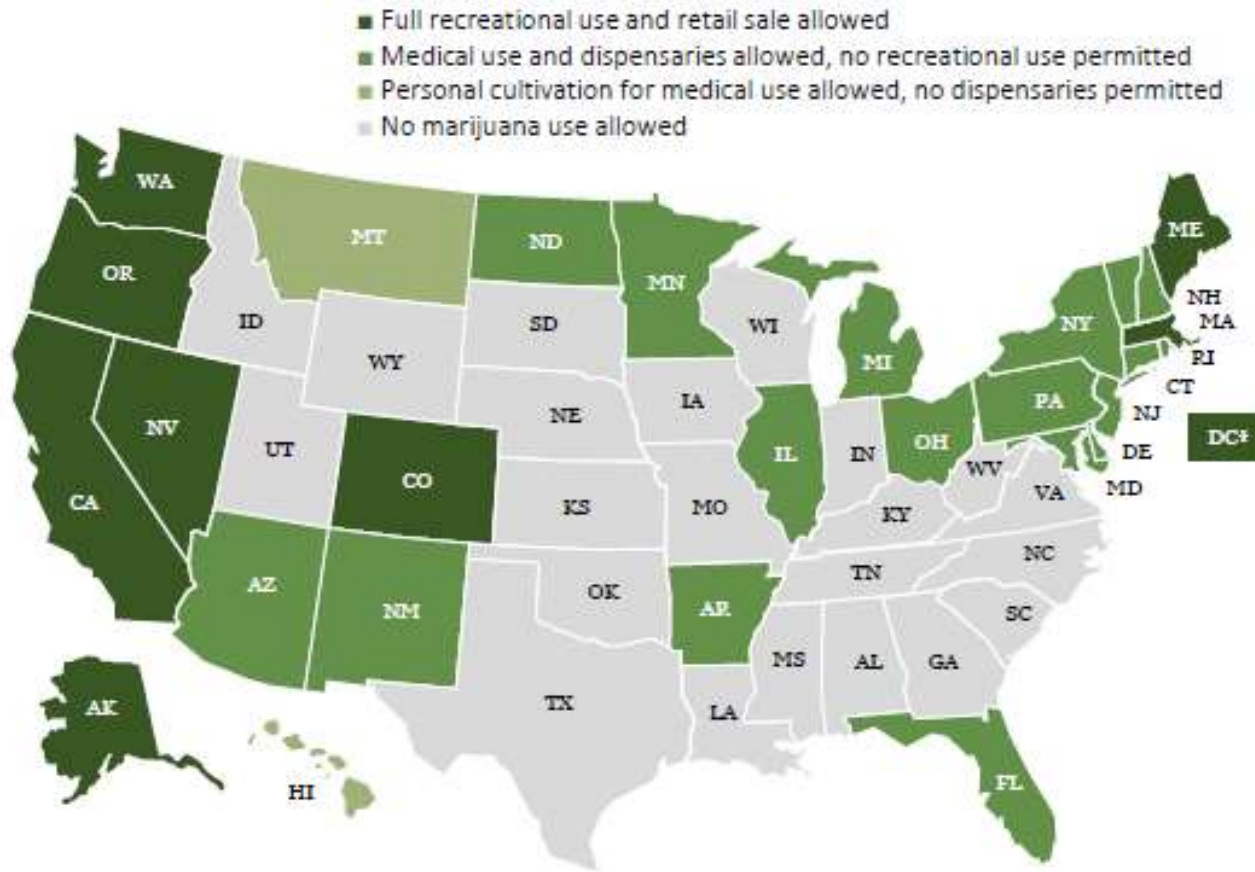


**Seven chambers flipped control after the November 2016 elections.**



\* Nebraska: Unicameral, nonpartisan, Republican dominated. New York: not decided.  
Source: National Conference of State Legislatures, Ballotpedia, Insurance Information Institute.

# Comp Caught in the Middle



# Congressional Cannabis Caucus

Rohrbacher  
(CA)Blumenauer  
(OR)

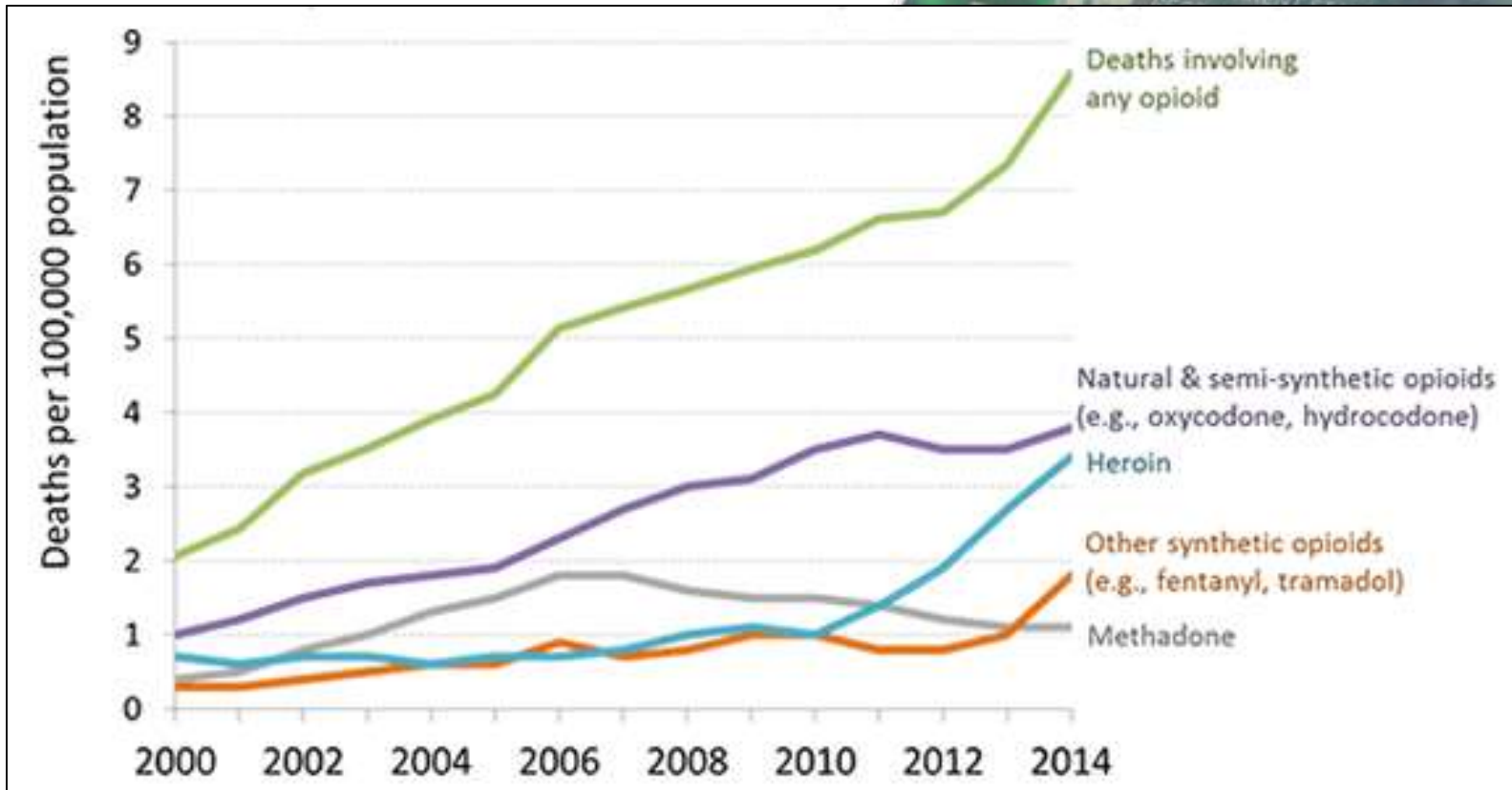
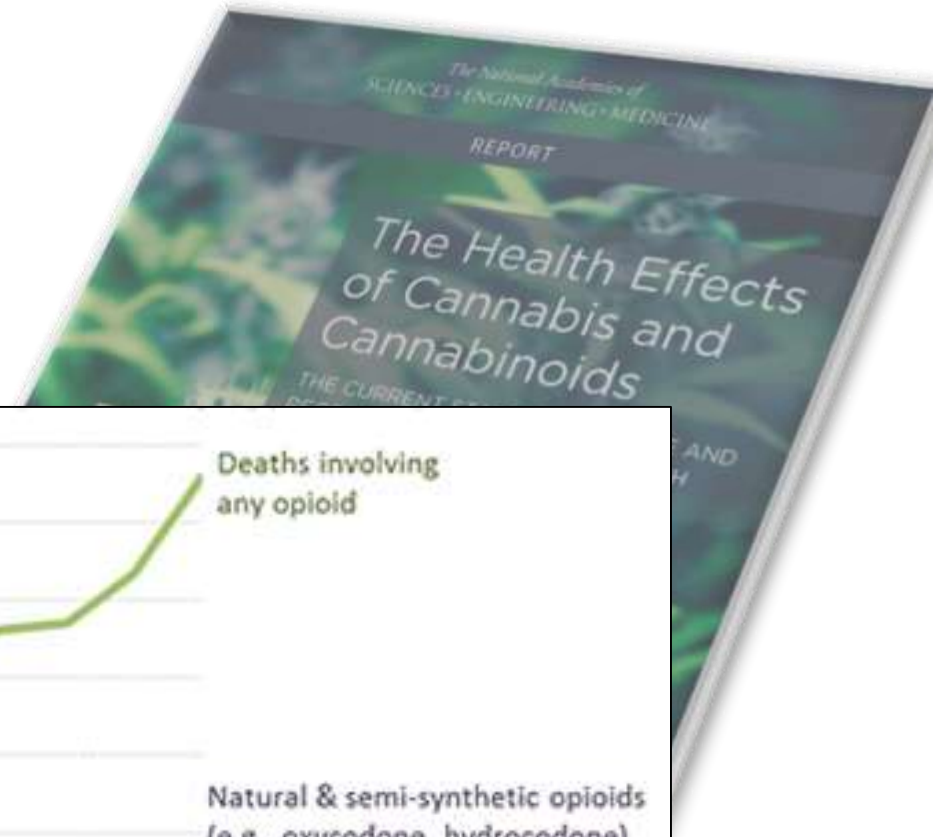
Young  
(AK)

Polis  
(CO)

# Medical Marijuana

Comp Caught in the Middle

Opioid Alternative?



<https://www.nap.edu/catalog/24625/the-health-effects-of-cannabis-and-cannabinoids-the-current-state>

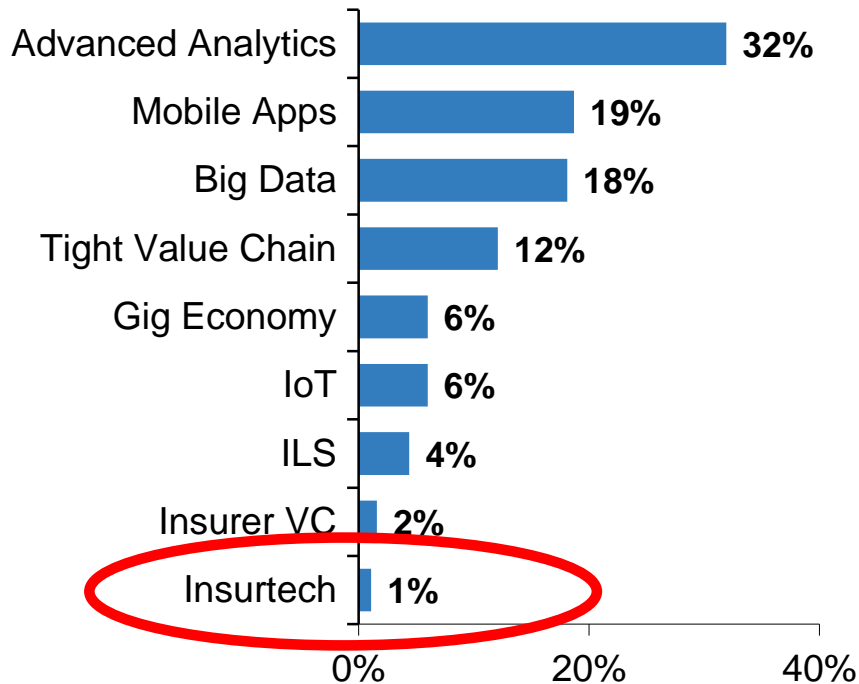
# On the Horizon

Sharing Economy and Disruption

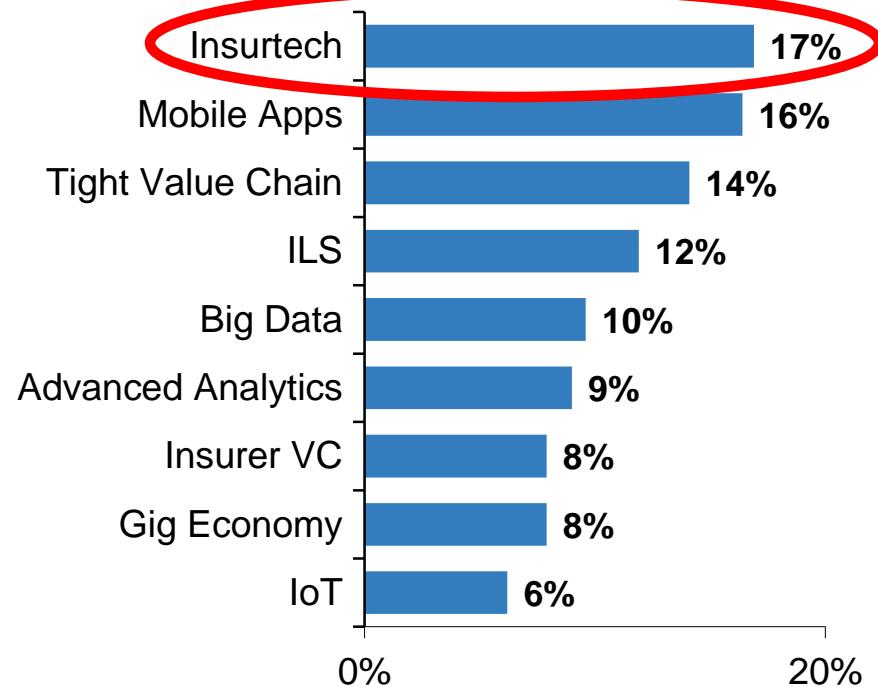
# Greatest Threats, Opportunities

## Whither Silicon Valley?

### Greatest Opportunity



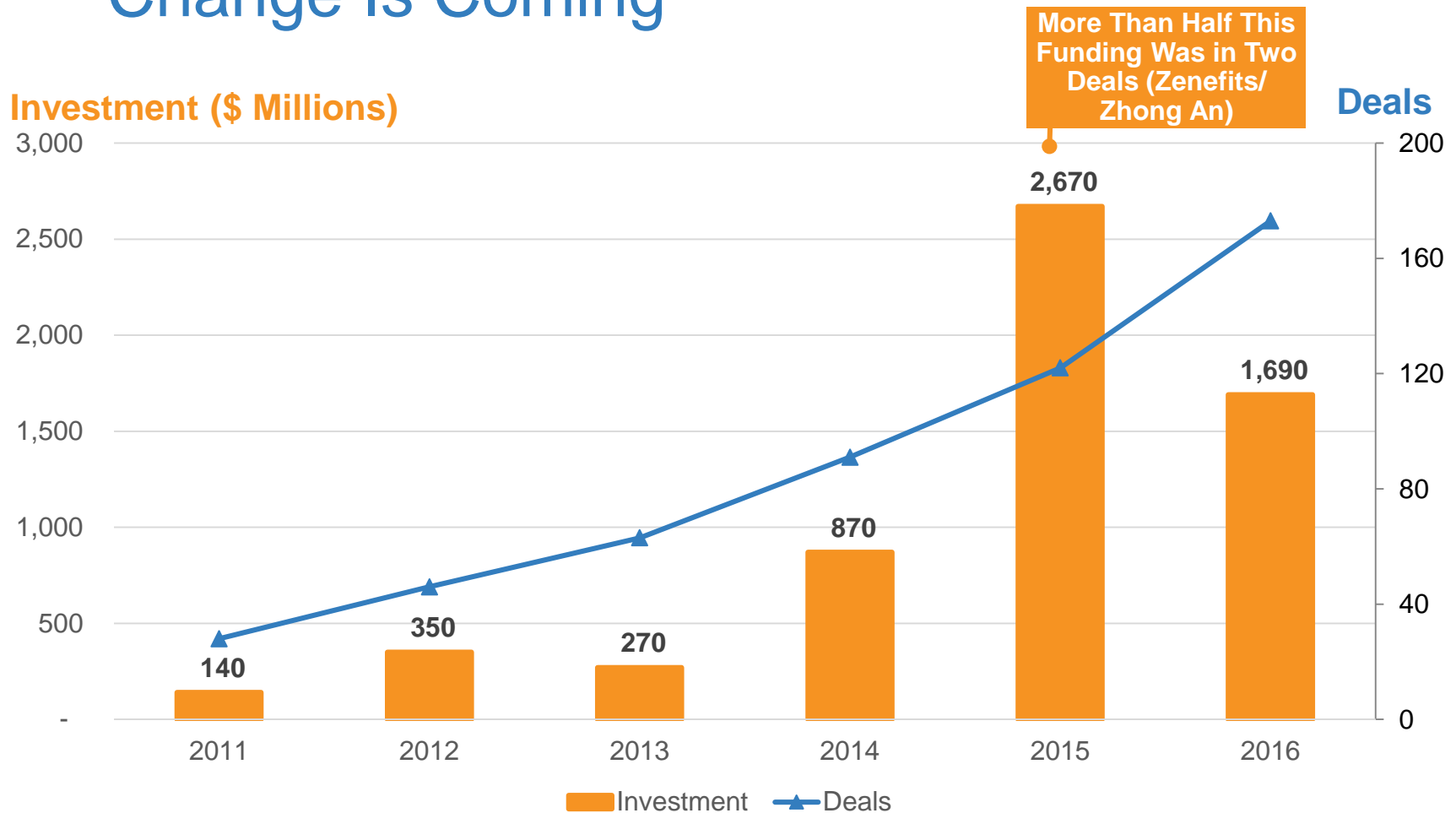
### Greatest Threat



SOURCE: A.M. Best Winter 2016-17 Insurance Industry Survey.



# Insurance Technology Financing – Change Is Coming



**Investment In Insurance Tech Is Rising. Number of Deals Set A Record Last Year.**

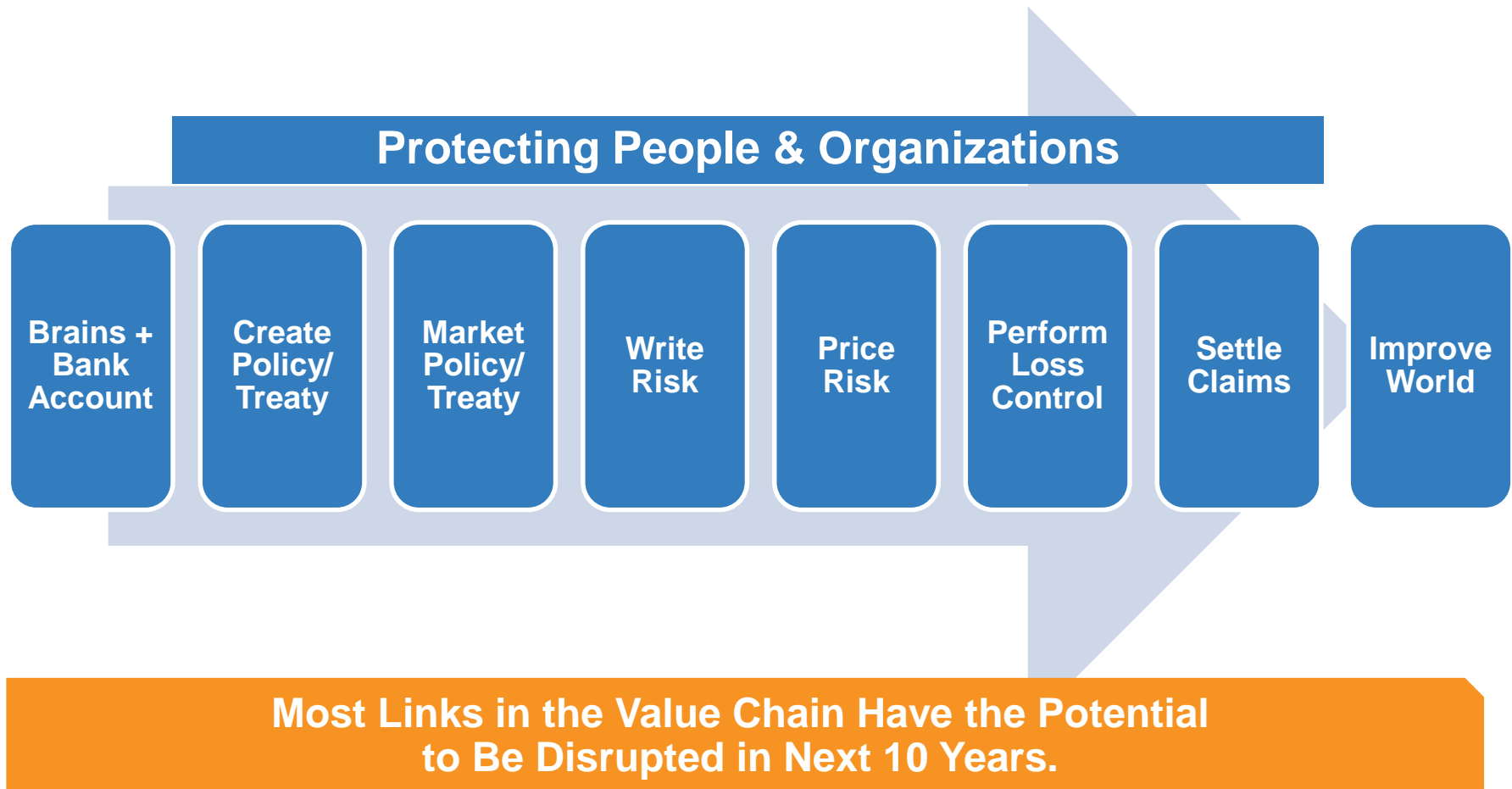


SOURCES: CB Insights, Insurance Information Institute.



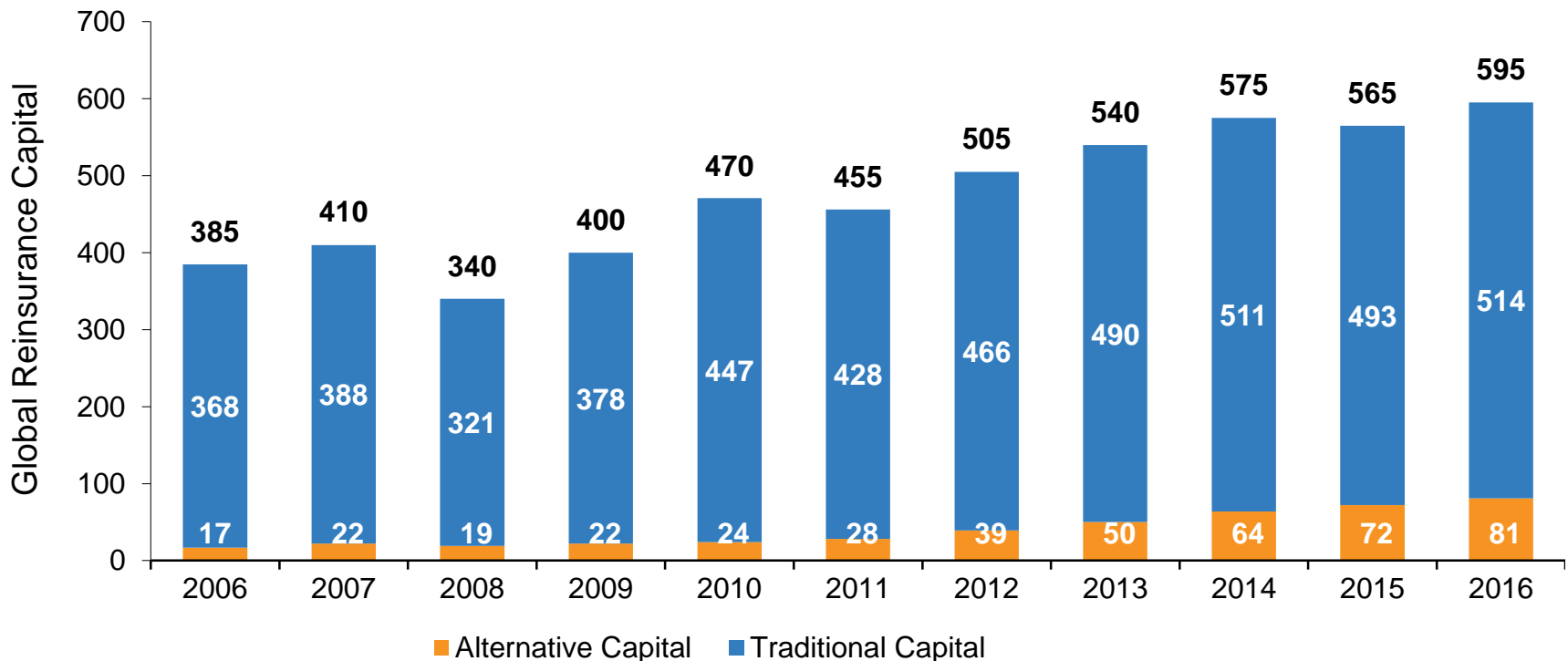
# The (Re)Insurance Value Chain

Where Could Disruption Lie?



# Alternative Capital Potentially Disrupting the Bank Account

(Billions of USD)



**Alternative capacity has grown 350% since 2006. It has more than tripled in the past six years.**



Source: Aon Benfield Analytics; Insurance Information Institute.

# The Internet

## Will It Disrupt Marketing?

### ▲ Lead Generators

- ◆ InsWeb, NetQuote, Insurance.com
- ◆ Site allows comparison shopping, sells lead to insurer

### ▲ Call Center Agencies

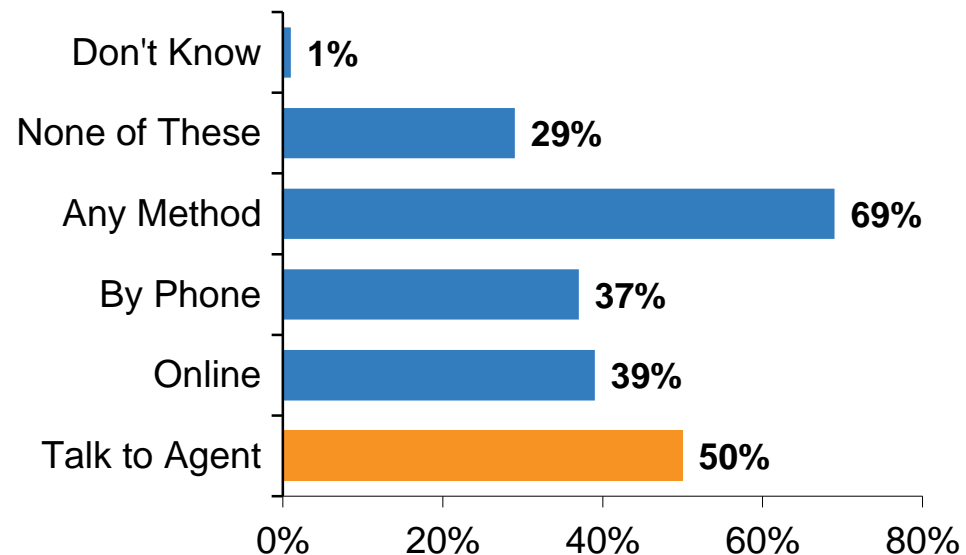
- ◆ SelectQuote, Goji
- ◆ Call center employs agents

### ▲ Digital agencies

- ◆ Esurance, Policy Genius
- ◆ Quote and buy online

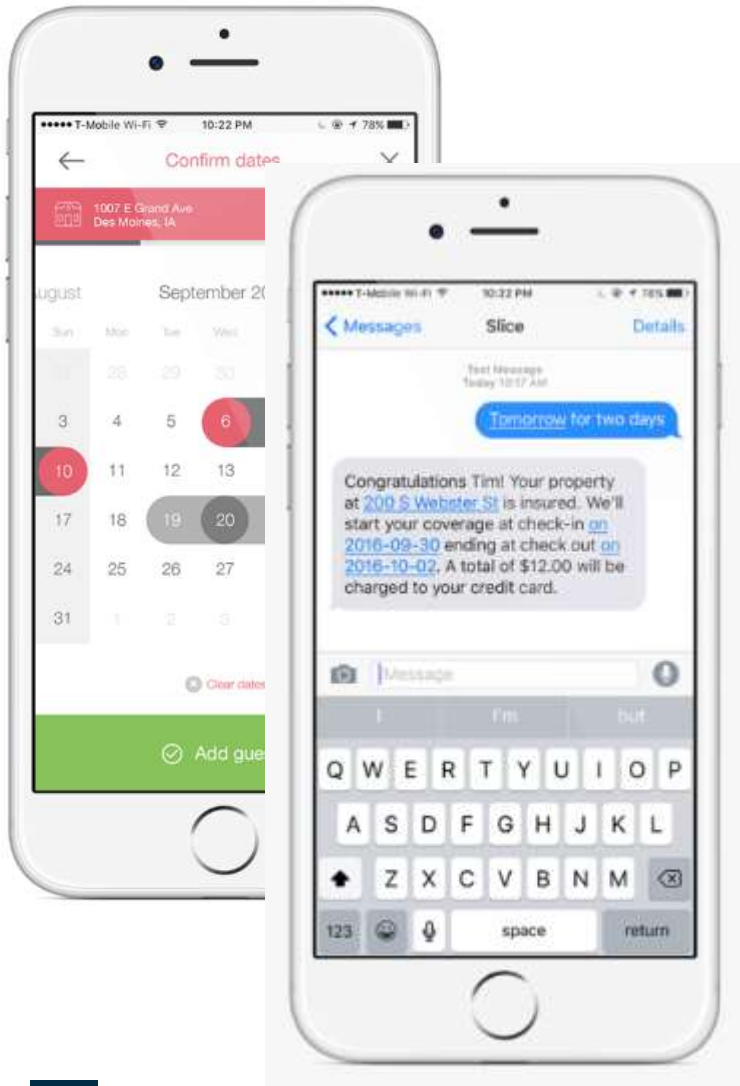
## But Customers Still Like Agents

### ▲ Did You Compare Prices When Your Auto Policy Was Up for Renewal?



SOURCES: The New Age of Insurance Aggregators, <http://insurancethoughtleadership.com/the-new-age-of-insurance-aggregators/>; Insurance Information Institute November 2015 Pulse Survey.

# Pricing Disruptor: The Fragmented Risk



# One-Day Auto Insurance



Read  
QR Code  
(agency code  
embedded)



Register

- Name
- Birthday
- Address
- e-mail address
- Driver's License No.
- License expiry date



Input

- License plate No.
- Date of driving

Premium is added  
on the monthly  
mobile phone bill

# Loss Control Disruptor

## The Internet of Things

### Telematics Today



### Telematics Tomorrow

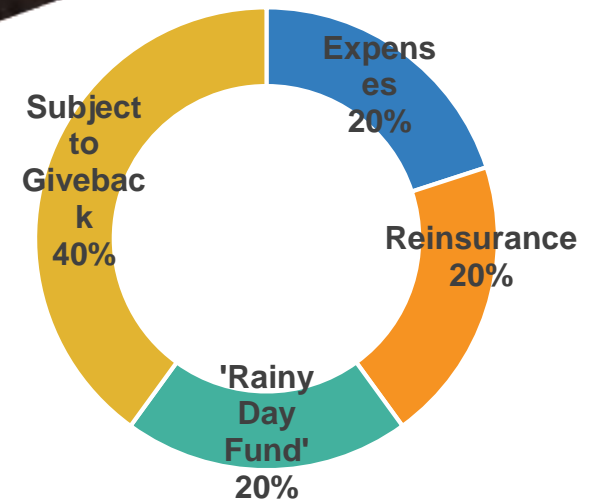
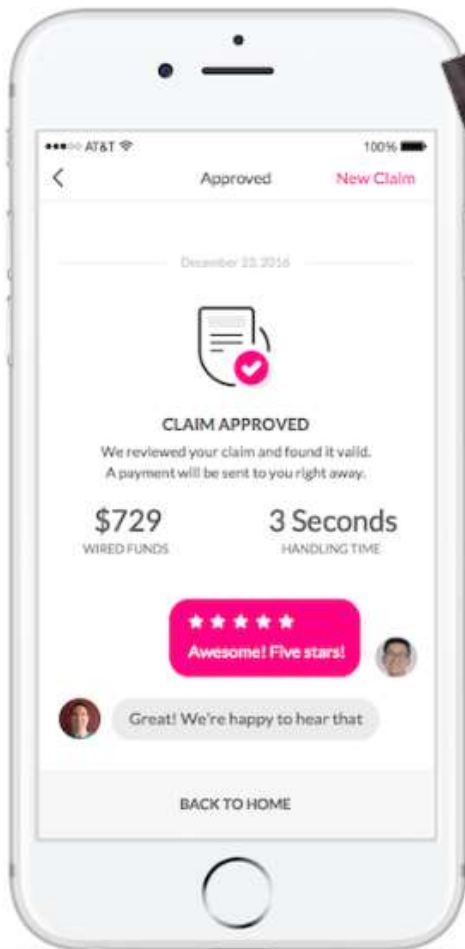


 iWatch

# Claims Disruptor

Artificial Intelligence + Behavioral Economics

Lemonade





# Peer-to-Peer (P2P) Insurance

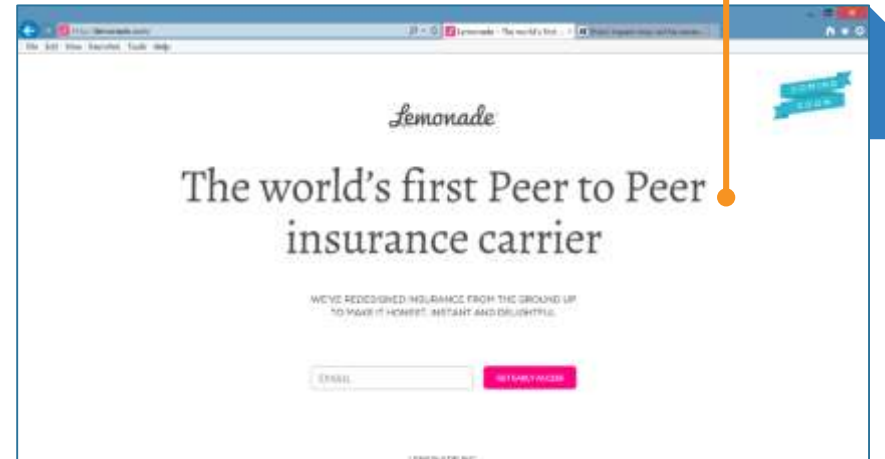
Taking on the Entire Value Chain

## A Typical P2P Model

- ▲ Resembles Mutuals/Reciprocal
- ▲ People Join Small Group of Friends to Prefund Deductible or Bear Other Small Risk.
- ▲ Leftover Deductible \$\$ Rolled Forward.
- ▲ May Deter Fraud – You Wouldn't Cheat Your Friends!

Source: "UberX-ing Insurance : Is Peer-to-Peer Insurance Viable?", presentation by Jay Sarzen, Aite Group at Drinker Biddle Insurance Conference, June 21, 2016.

Lemonade's Model:  
Unknown



## CEO Daniel Schreiber

- ▲ Our Chief Behavioral Officer, Professor Dan Ariely, says that "If you tried to create a system to bring out the worst in humans, it would look a lot like the insurance of today."





# Summary

- ▲ Higher catastrophe losses caused industry profits to deteriorate.
- ▲ Low interest rates continue to dog industry results.
- ▲ Commercial rates may be softening.
- ▲ Political leaders face a complex, disruptive environment.





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# Thank you for your time and your attention!

Read our auto [White Paper](http://www.iii.org) on Rising Personal Auto Costs at  
[www.iii.org](http://www.iii.org)