

# Trends, Challenges and Opportunities in Personal Lines Insurance in 2016 & Beyond

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Robert P. Hartwig, Ph.D., CPCU, President & Economist Insurance Information Institute ◆ 110 William Street ◆ New York, NY 10038

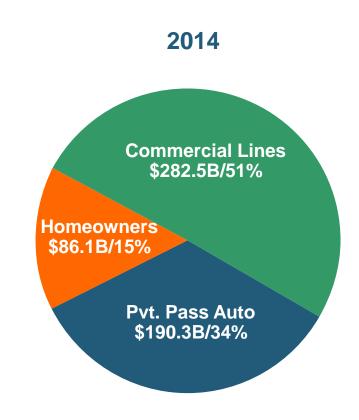
Tel: 212.346.5520 ♦ Cell: 917.453.1885 ♦ bobh@iii.org ♦ www.iii.org

## Distribution of Direct Premiums Written by Segment/Line, 2014



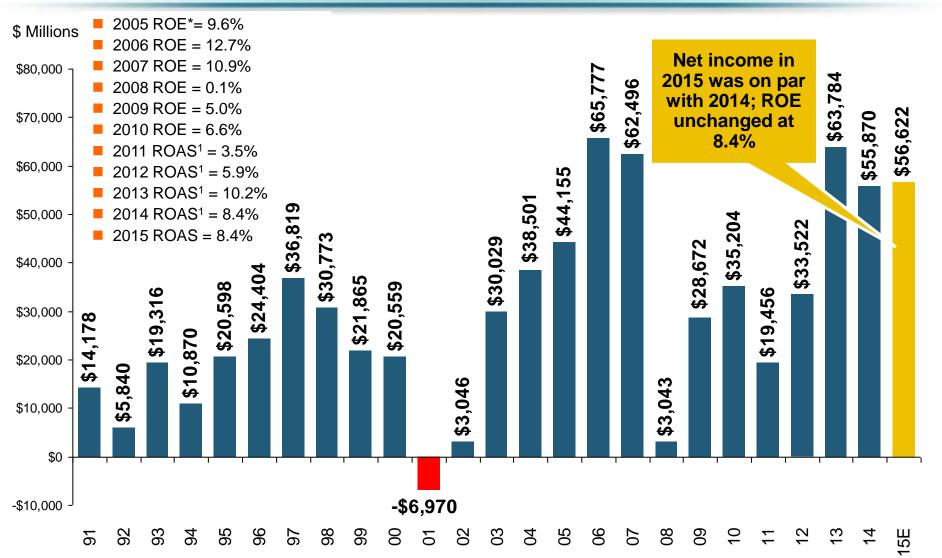
#### **Distribution Facts**

- Personal/Commercial lines split has been about 50/50 for many years
- Pvt. Passenger Auto is by far the largest line of insurance and is currently the most important source of industry profits
- Billions of additional dollars in homeowners insurance premiums are written by staterun residual market plans



#### P/C Industry Net Income After Taxes 1991-2015

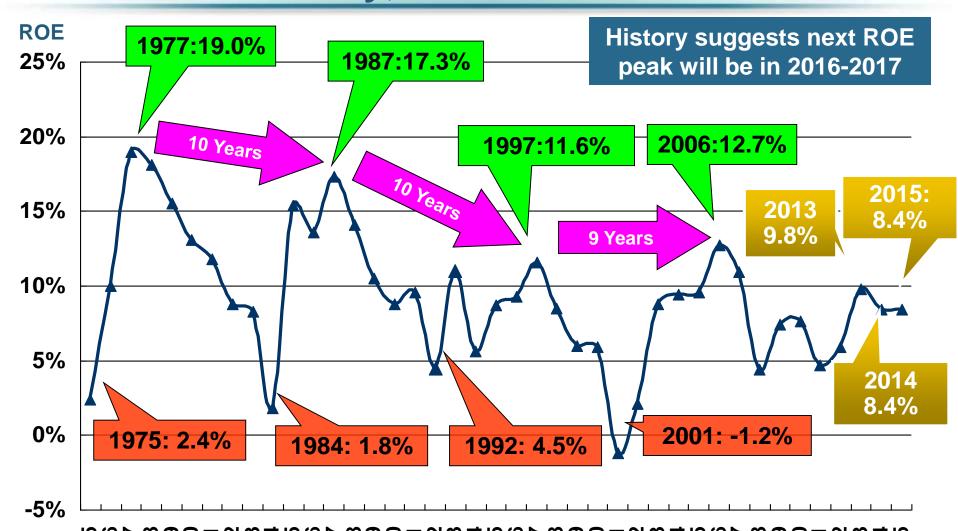




•ROE figures are GAAP; <sup>1</sup>Return on avg. surplus. Excluding Mortgage & Financial Guaranty insurers yields a 8.2% ROAS in 2014, 9.8% ROAS in 2013, 6.2% ROAS in 2012, 4.7% ROAS for 2011, 7.6% for 2010 and 7.4% for 2009; 2015E is annualized figure based actual figure through Q3 of \$44.0 Sources: A.M. Best, ISO: Insurance Information Institute

## Profitability Peaks & Troughs in the P/C Insurance Industry, 1975 – 2015





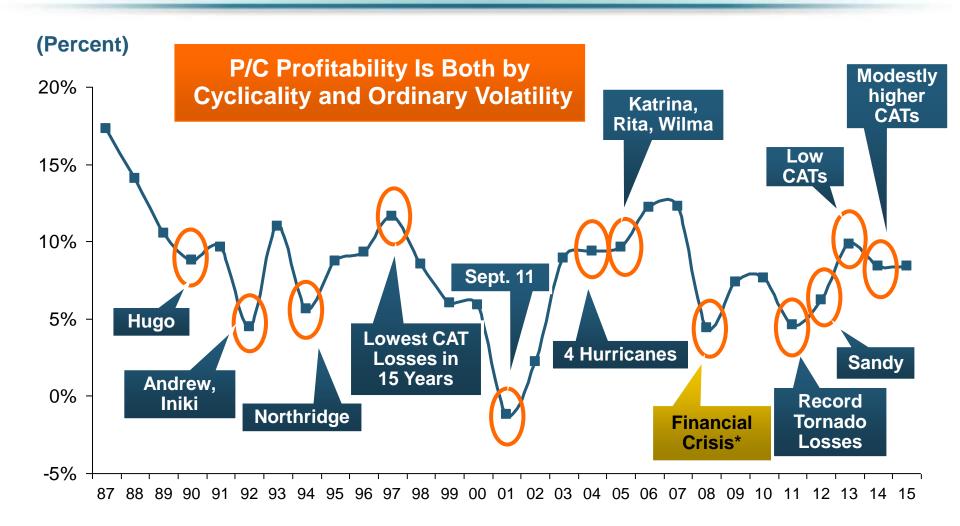
\*Profitability - P/C insurer ROEs 2011-15 figures are estimates based on ROAS data. Note: Data for 2008-2014 exclude

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Source: Insurance Information Institute; NAIC, ISO, A.M. Best, Conning

## ROE: Property/Casualty Insurance by Major Event, 1987–2015

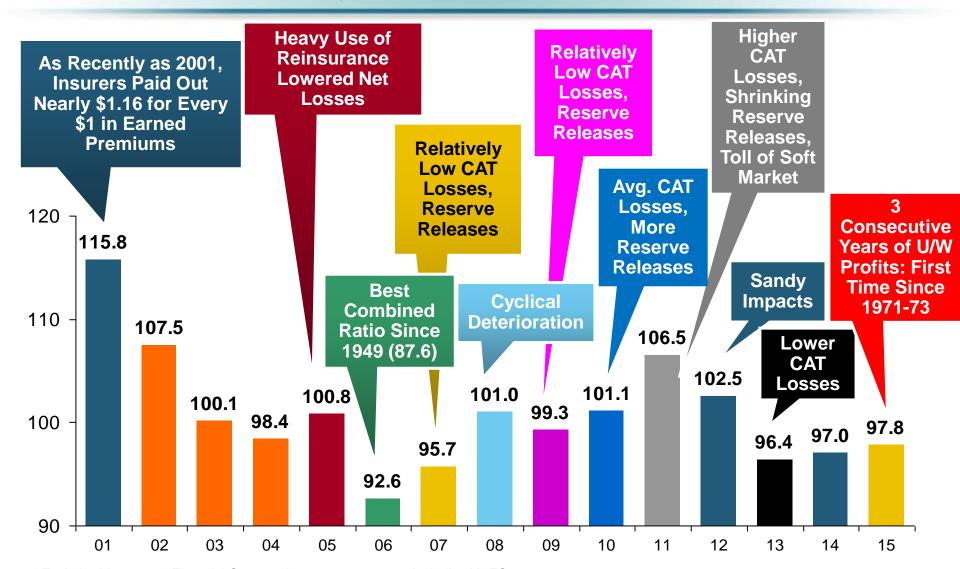




<sup>\*</sup> Excludes Mortgage & Financial Guarantee in 2008 – 2014. Sources: ISO, *Fortune*; Insurance Information Institute.

## P/C Insurance Industry Combined Ratio, 2001–2015\*

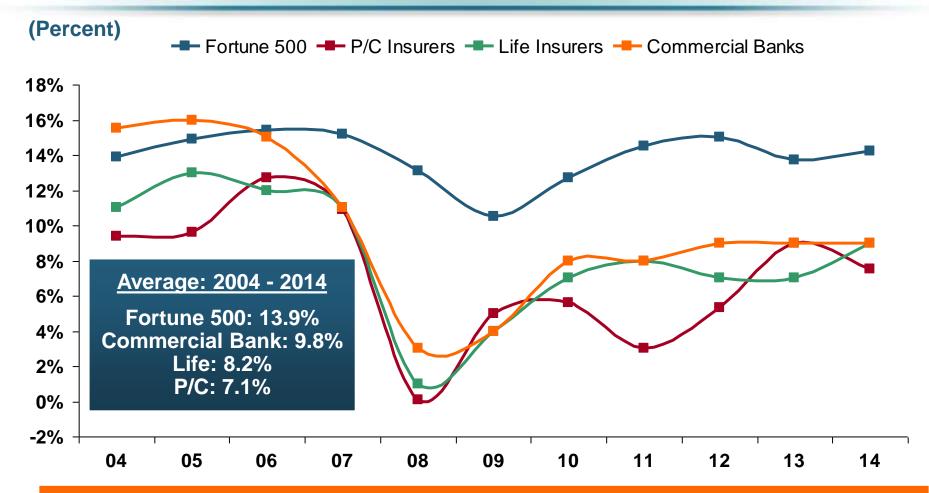




<sup>\*</sup> Excludes Mortgage & Financial Guaranty insurers 2008--2014. Including M&FG, 2008=105.1, 2009=100.7, 2010=102.4, 2011=108.1; 2012:=103.2; 2013: = 96.1; 2014: = 97.0.

## Return on Equity by Financial Services Sector vs. Fortune 500, 2004-2014\*



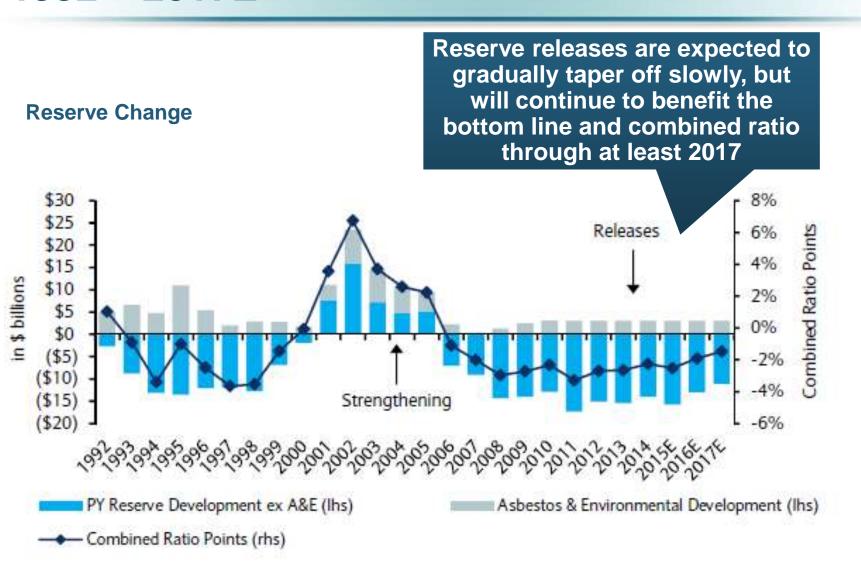


Banks and Insurers Have Substantially Underperformed the Fortune 500 Since the Financial Crisis

<sup>\*</sup>GAAP basis.

## P/C Insurance Loss Reserve Development, 1992 – 2017E\*





Source: A.M. Best; Barclays research for estimates.



# Top Insurance Issues: What's Hot, What's Not

# Eclectic Mix of Issues Garnered Media Attention So Far in 2016 Interest in Tech Issues Remains High

## Top Issues, P/C, First Five Months 2015 vs. First Five Months\* 2016<sup>1</sup>



	Top Issues	2015	2016	% Increase/Decrease
1	Auto	12,506	15,872	27%
2	Solvency	5,944	13,174	122%
3	Driverless Cars	3,138	8,909	184%
4	Homeowners	5,755	8,113	41%
5	Cyber Insurance	4,048	7,489	85%
6	Wildfires	614	5,961	871%
7	Market Conditions	4,122	5,716	39%
8	Tort	2,536	5,081	100%
9	Earthquakes	3,502	4,854	39%
10	Insurance Fraud	4,582	4,764	4%
11	Terrorism	7,815	4,247	-46%
12	Climate Change	1,879	4,151	121%
13	Pay-As-You Go/Telematics	2,162	4,104	90%
14	Tornadoes	2,257	2,953	31%
15	Hurricanes	1,451	2,576	78%
16	Flood Insurance	2,223	2,437	10%
17	Workers Comp	1,350	1,843	37%
18	Sharing Economy	503	1,352	169%
19	Drones and Insurance	409	709	73%
20	Price Optimization	329	690	110%
21	Winter Storms & Insurance	522	666	28%
22	Aviation	241	416	73%
23	Gun Liability	98	314	220%
24	Systemic Risk	189	236	25%
25	Auto Affordability & CFA	247	155	-37%
26	Credit Scoring	84	152	81%
27	Riots	944	143	-85%
	Total	69,041	106,368	54%

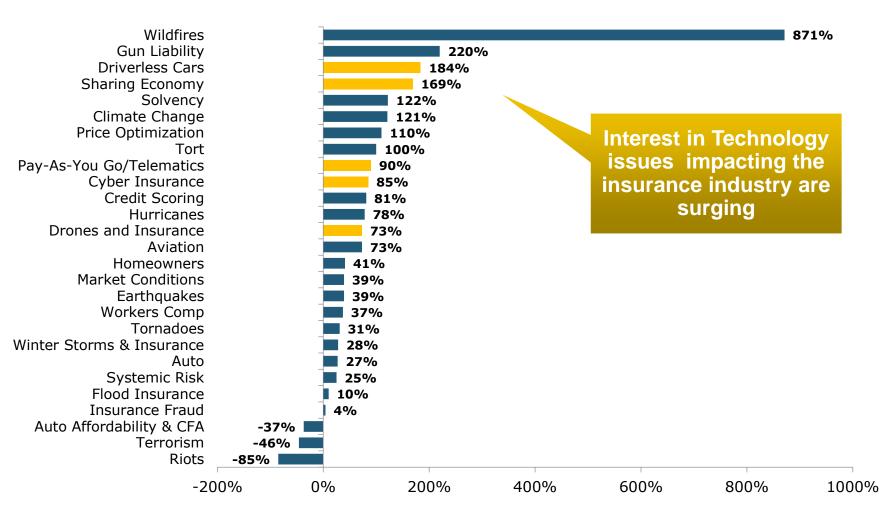
<sup>\*</sup>Through May 15.

<sup>&</sup>lt;sup>1</sup>Based on a search of Meltwater News

## I.I.I. Media Index, P/C, First Five Months 2015 vs. First Five Months\* 2016<sup>1</sup>



#### Percent Increase/Decrease from Previous Year



<sup>\*</sup>Through May 15.

<sup>&</sup>lt;sup>1</sup>Based on a search of Meltwater News



# Auto & Home Insurance: State of the Personal Lines Market

Results Have Been Fairly Strong and Stable in Recent Years

Dearth of Major CATs, Pricing Discipline Has Helped

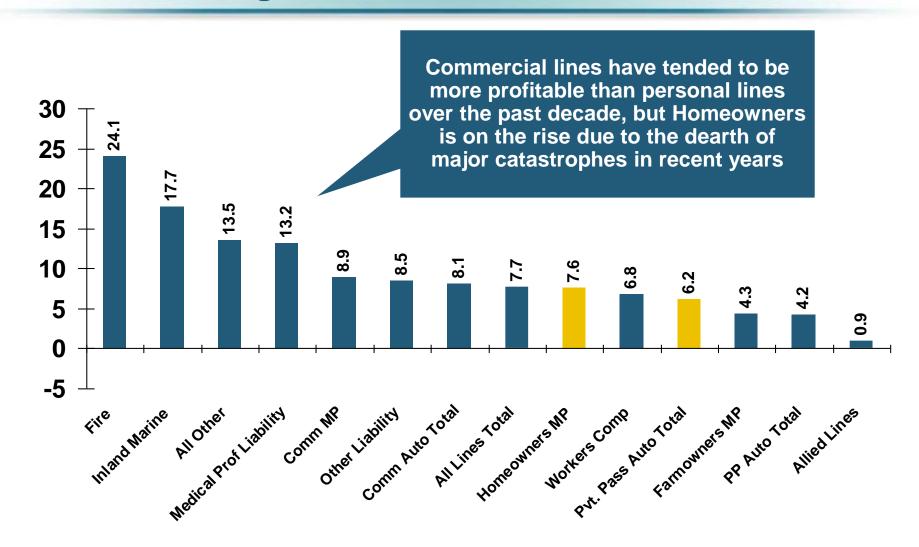


#### **Personal Lines Profitability**

Profitability of Auto and Homeowners Lines Varies
Tremendously Over Time and Across States

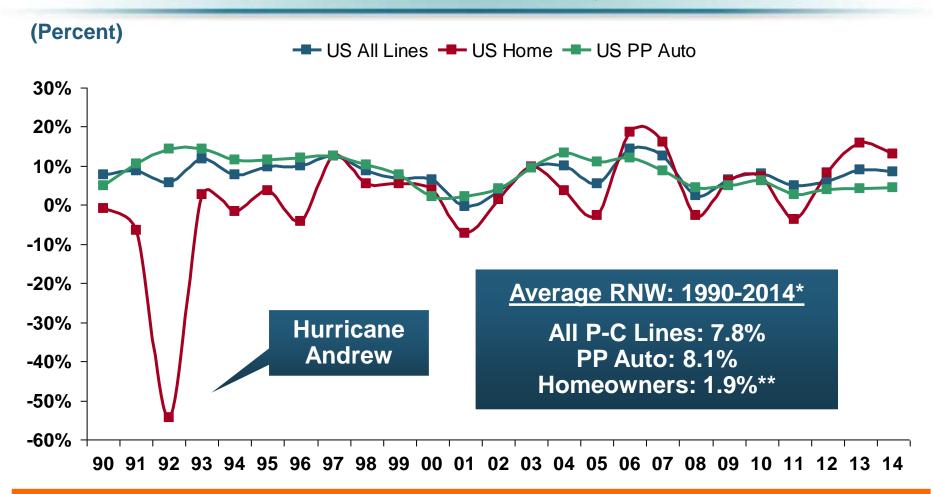
### Return on Net Worth (RNW) All Lines: 2005-2014 Average





## Return on Net Worth: All P-C Lines vs. Homeowners & Pvt. Pass. Auto, 1990-2014\*



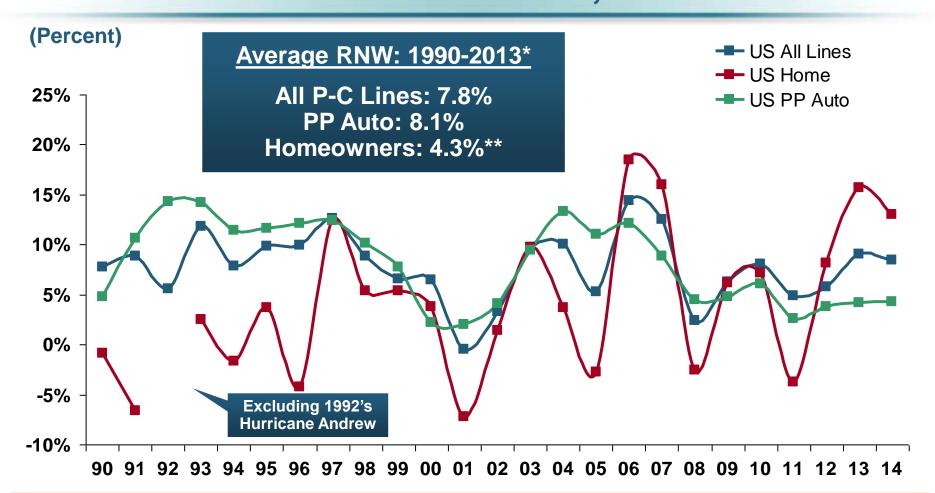


Pvt.Pass. Auto Has Consistently Outperformed the P-C Industry as a Whole. Homeowners Volatility is Associated Primarily With Coastal Exposure Issues

<sup>\*</sup>Latest available.

<sup>\*\*</sup>If 1992, the year of Hurricane Andrew is excluded, the resulting homeowners RNW is 4.3%. Sources: NAIC; Insurance Information Institute.

## Return on Net Worth: All P-C Lines vs. Homeowners & Pvt. Pass. Auto, 1990-2014\*



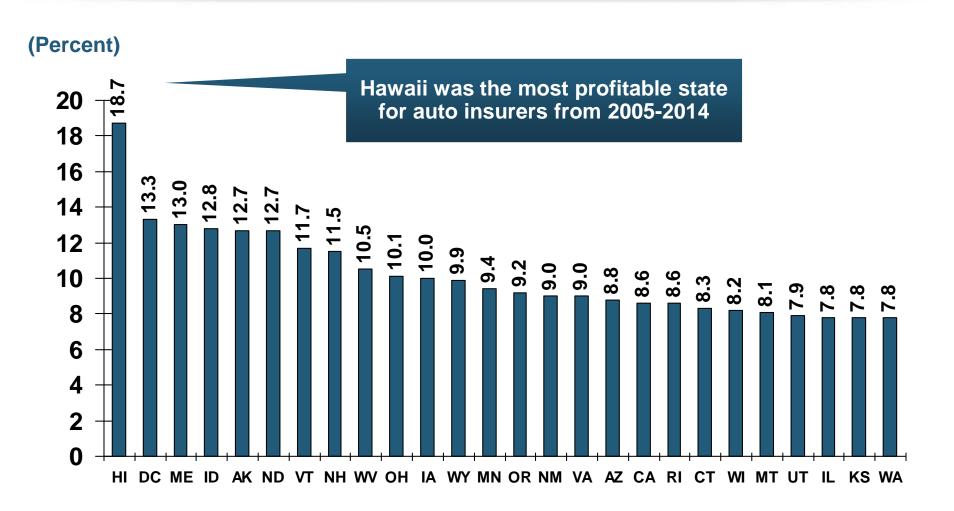
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<sup>\*</sup>Latest available.

<sup>\*\*</sup>Excludes 1992, the year of Hurricane Andrew. If 1992 is included the resulting homeowners RNW is 1.9% Sources: NAIC; Insurance Information Institute.

#### RNW Pvt. Passenger Auto, 2005-2014 Average: Highest 25 States

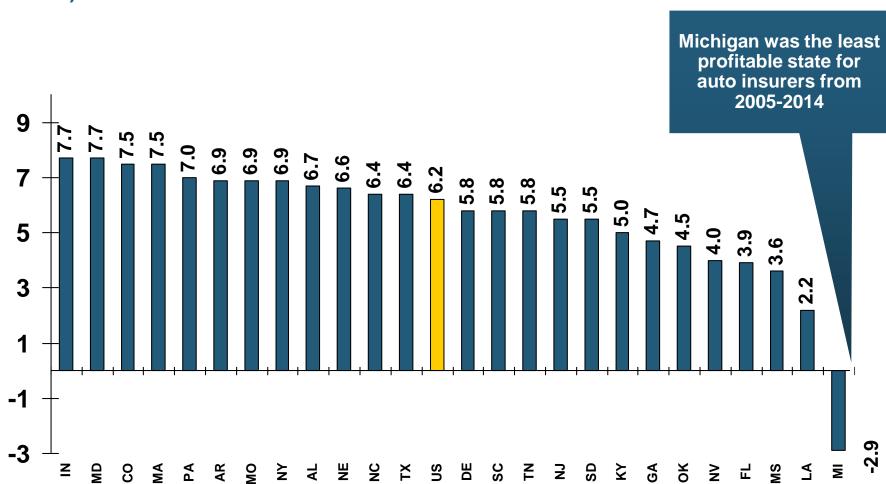




#### RNW Pvt. Passenger Auto, 2005-2014 Average: Lowest 25 States



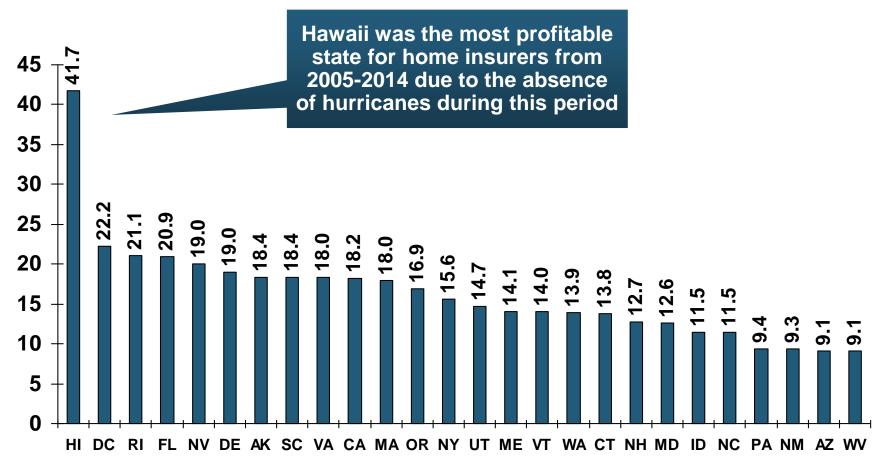
(Percent)



#### RNW Homeowners Insurance, 2005-2014 Average: Highest 25 States

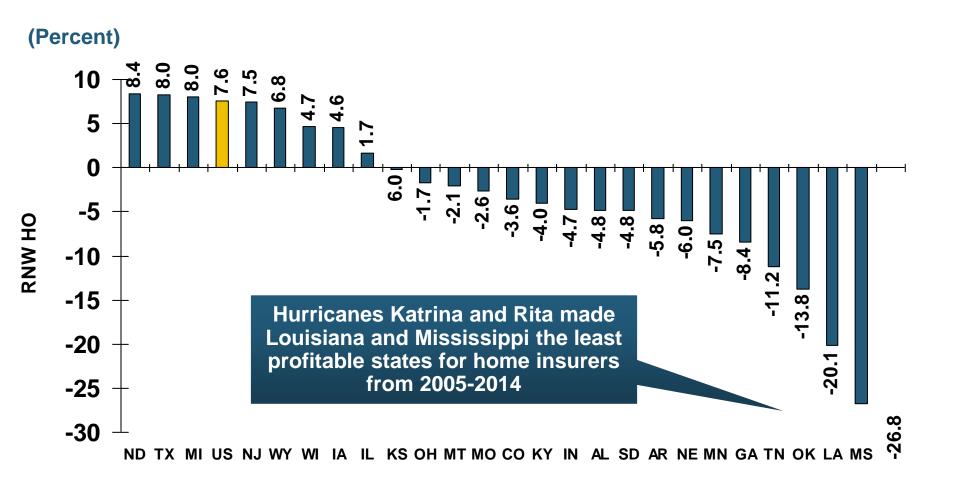






#### RNW Homeowners Insurance, 2005-2014 Average: Lowest 25 States







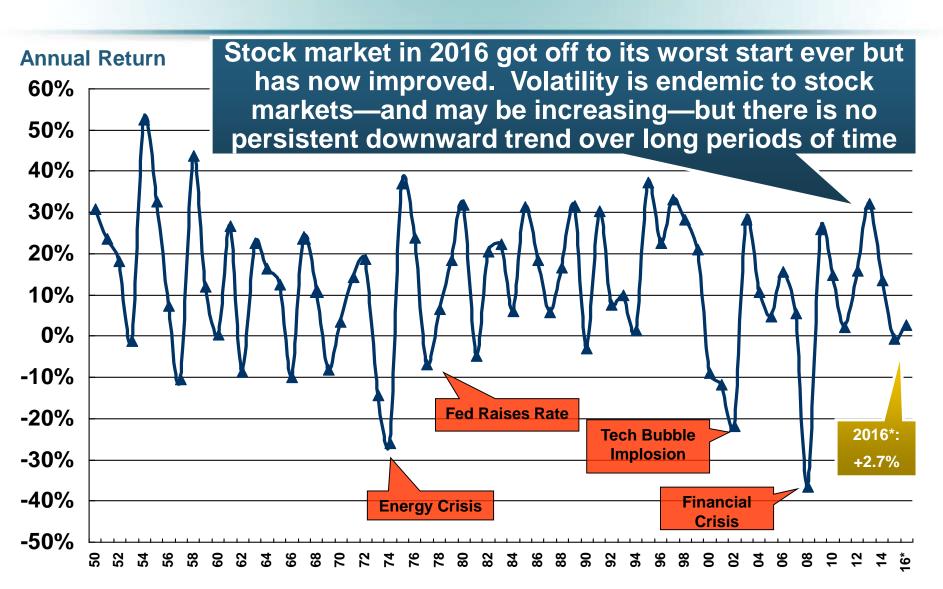
#### INVESTMENTS: THE NEW REALITY

Investment Performance is a Key Driver of Profitability

Depressed Yields Will Necessarily Influence Underwriting & Pricing

#### **S&P 500 Index Returns, 1950 – 2016\***



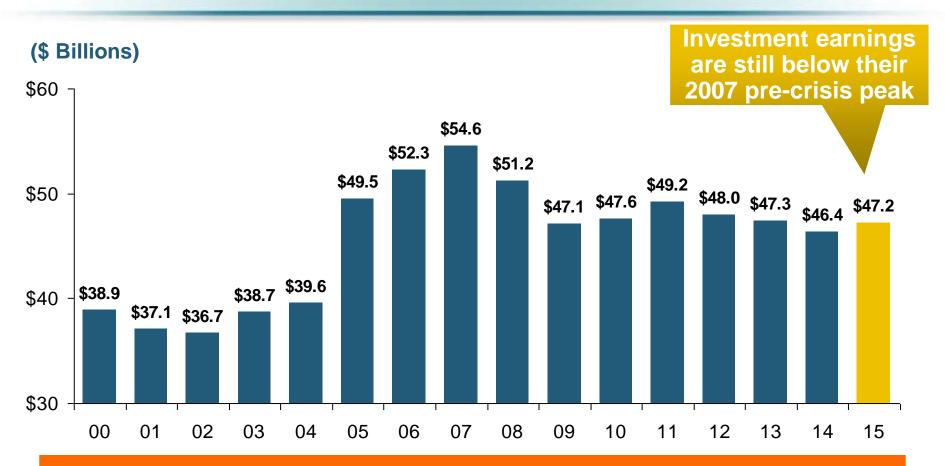


<sup>\*</sup>Through June 5, 2016.

Source: NYU Stern School of Business: http://pages.stern.nyu.edu/~adamodar/New\_Home\_Page/datafile/histretSP.html Ins. Info. Inst.

## Property/Casualty Insurance Industry Investment Income: 2000–2015<sup>1</sup>



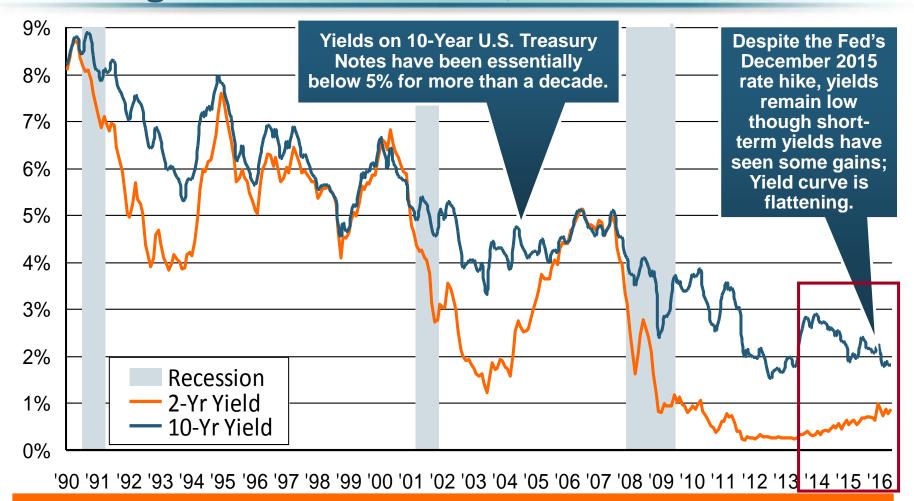


Due to persistently low interest rates, investment income fell in 2012, 2013 and 2014 but showed a small (1.9%) increase in 2015—a trend that may continue.

<sup>&</sup>lt;sup>1</sup> Investment gains consist primarily of interest and stock dividends. Sources: ISO; Insurance Information Institute.

## U.S. Treasury Security Yields: A Long Downward Trend, 1990–2016\*





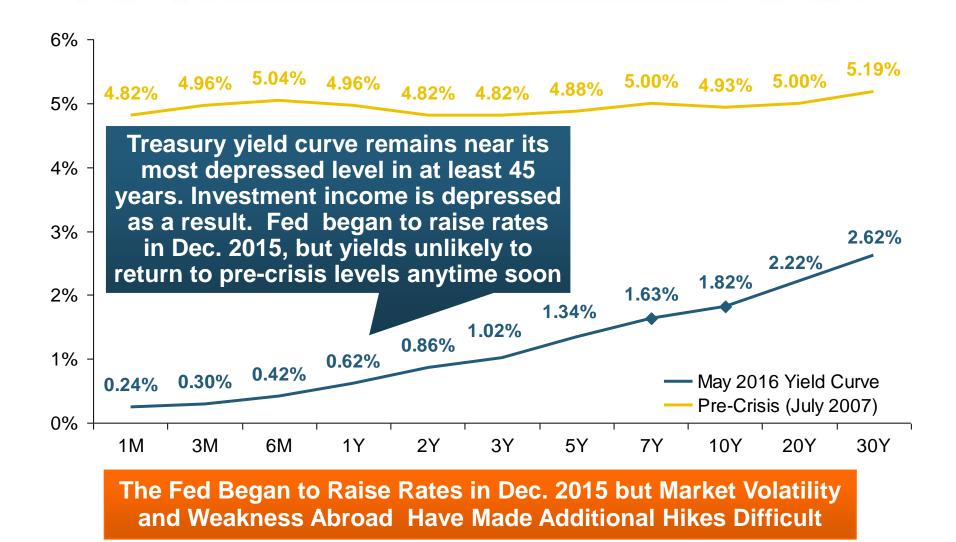
Since roughly 80% of P/C bond/cash investments are in 10-year or shorter durations, most P/C insurer portfolios will have low-yielding bonds for years to come.

Sources: Federal Reserve Bank at <a href="http://www.federalreserve.gov/releases/h15/data.htm">http://www.federalreserve.gov/releases/h15/data.htm</a>. National Bureau of Economic Research (recession dates); Insurance Information Institute.

<sup>\*</sup>Monthly, constant maturity, nominal rates, through May 20, 2016.

## Treasury Yield Curves: Pre-Crisis (July 2007) vs. May 2016\*

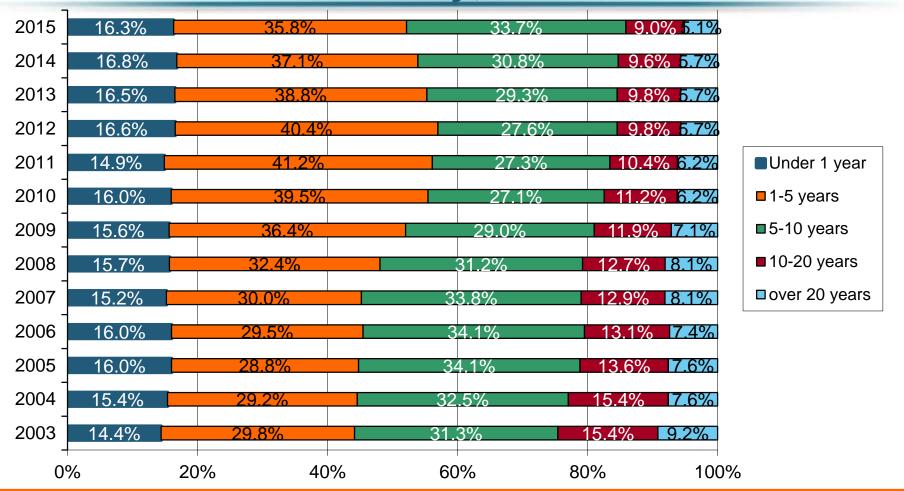




<sup>\*</sup>As of May 20, 2016.

## Distribution of Bond Maturities, P/C Insurance Industry, 2003-2015



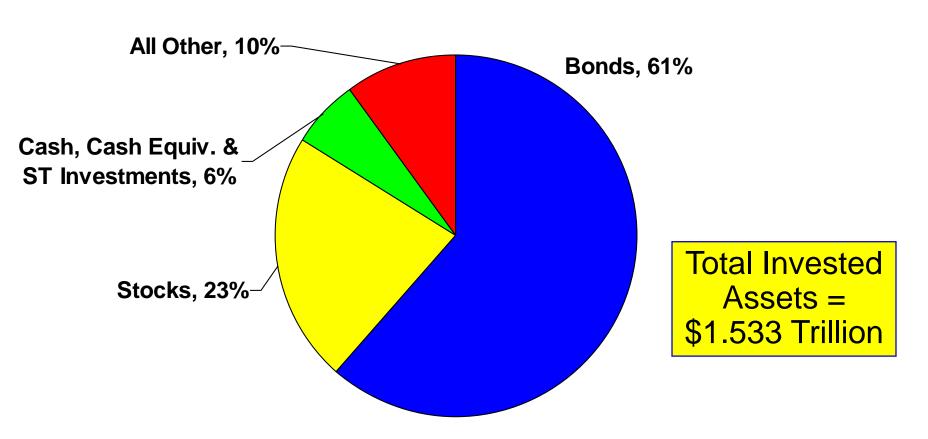


Two main shifts over these years. From 2008 to 2011-12, from bonds with longer maturities to bonds with shorter maturities. But beginning in 2013, the reverse. Note, however, that the percentages in bonds with maturities over 10 years continues to drop.

## Distribution of Invested Assets: P/C Insurance Industry, 2014



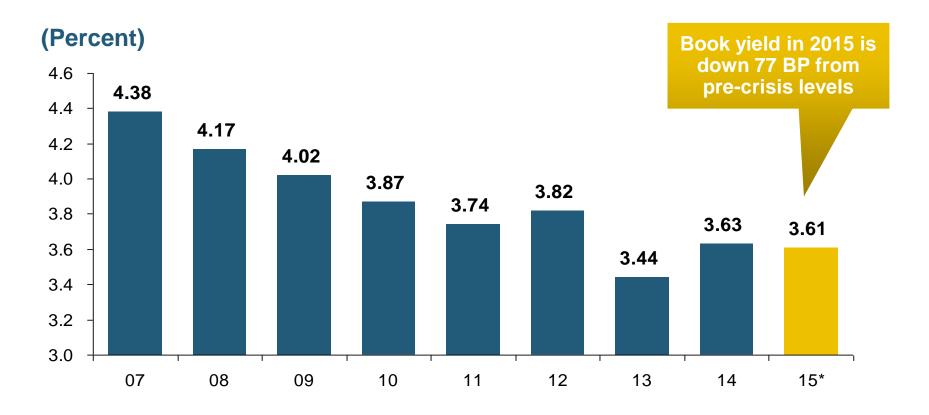
#### \$ Billions



Source: Insurance Information Institute Fact Book 2016, A.M. Best.

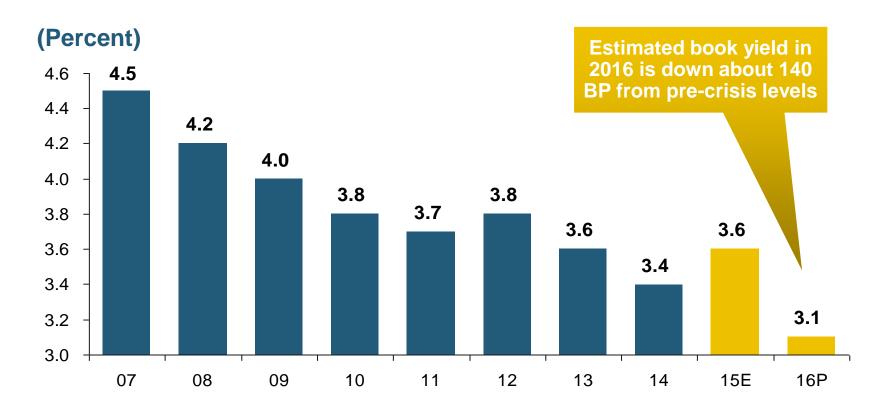
## Net Yield on Property/Casualty Insurance Invested Assets, 2007–2015\*





The yield on invested assets remains low relative to pre-crisis yields. The Fed's plan to raise interest rates in late 2015 has already pushed up some yields, albeit quite modestly.

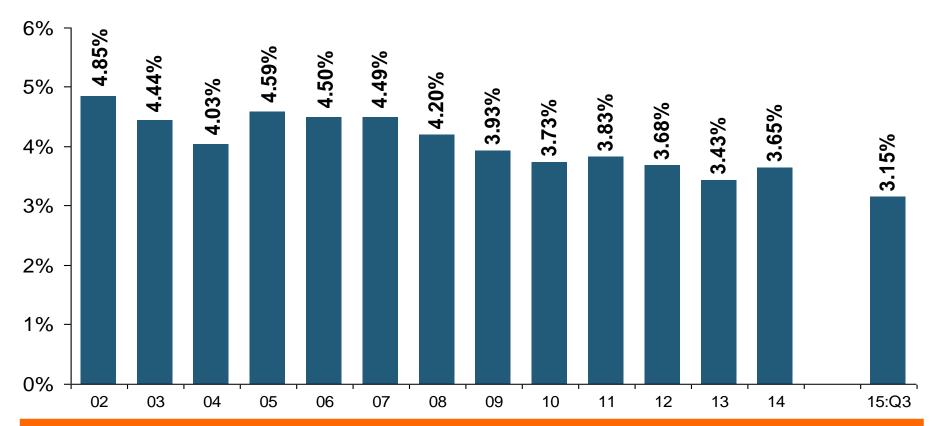
## Net Investment Yield on Property/ Casualty Insurance Invested Assets, 2007–2016P\*



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## P/C Insurer Portfolio Yields, 2002-2015:Q3

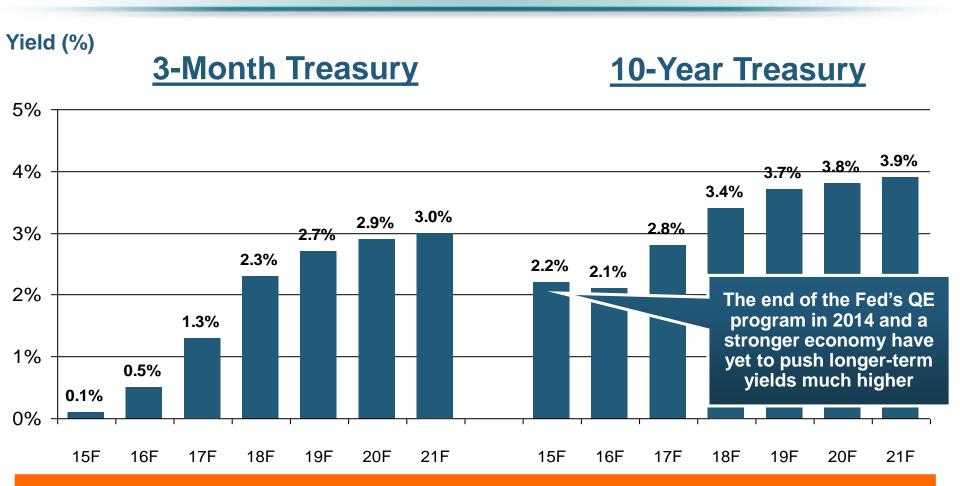




P/C carrier yields have been falling for over a decade, reflecting the long downtrend in prevailing interest rates. Even as prevailing rates rise in the next few years, portfolio yields are unlikely to rise quickly, since low yields of recent years are "baked in" to future returns.

#### Interest Rate Forecasts: 2016 - 2021



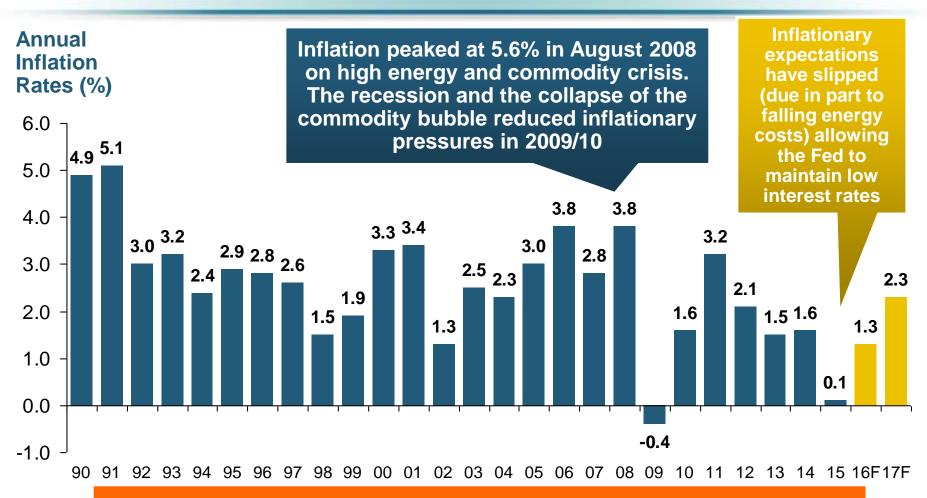


A full normalization of interest rates is unlikely until 2019, more than a decade after the onset of the financial crisis.

Sources: Blue Chip Economic Indicators (4/16 for 2016 and 2017; for 2018-2021 3/16 issue); Insurance Info. Institute.

## Annual Inflation Rates, (CPI-U, %), 1990–2017F

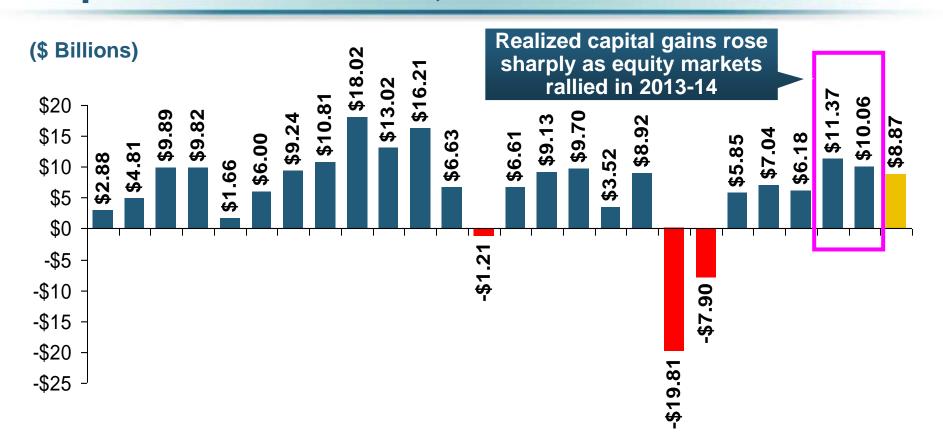




Slack in the U.S. economy and falling energy prices suggests that inflationary pressures should remain subdued for an extended period of times

## P/C Insurer Net Realized Capital Gains/Losses, 1990-2015:Q3\*





90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15\*

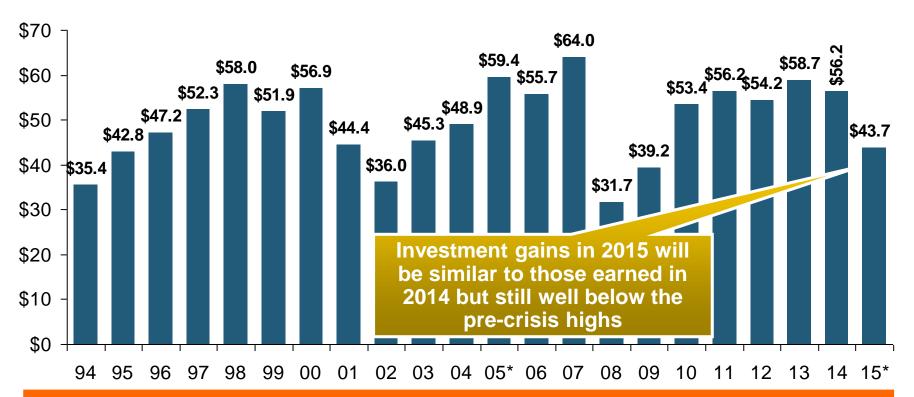
Insurers Posted Net Realized Capital Gains in 2010 - 2014 Following Two Years of Realized Losses During the Financial Crisis. Realized Capital Losses Were a Primary Cause of 2008/2009's Large Drop in Profits and ROE.

<sup>\*</sup>Through Q3 2015.
Sources: A.M. Best, ISO, SNL, Insurance Information Institute.

## Property/Casualty Insurance Industry Investment Gain: 1994–2015:Q3<sup>1</sup>



#### (\$ Billions)



Total Investment Gains Were Down Slightly in 2014 as Low Interest Rates
Pressured Investment Income but Realized Capital Gains Remained
Robust

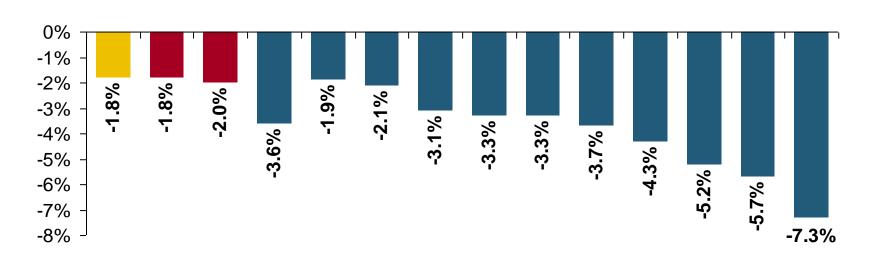
<sup>&</sup>lt;sup>1</sup> Investment gains consist primarily of interest, stock dividends and realized capital gains and losses.

<sup>\* 2005</sup> figure includes special one-time dividend of \$3.2B; 2015 figure is through Q3 2015. Sources: ISO, SNL; Insurance Information Institute.

## Reduction in Combined Ratio Necessary to Offset 1% Decline in Investment Yield to Maintain Constant ROE, by Line\*







Lower Investment Earnings Place a Greater Burden on Underwriting and Pricing Discipline

Source: A.M. Best; Insurance Information Institute.

<sup>\*</sup>Based on 2008 Invested Assets and Earned Premiums

<sup>\*\*</sup>US domestic reinsurance only

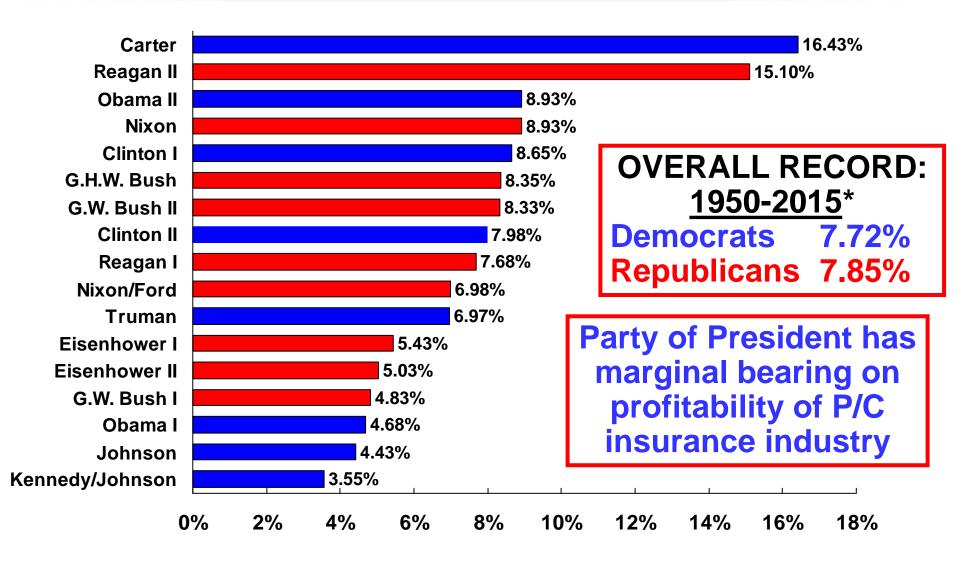


#### **Profitability & Politics**

## How Is Profitability Affected by the President's Political Party?

### P/C Insurance Industry ROE by Presidential Administration, 1950-2014\*

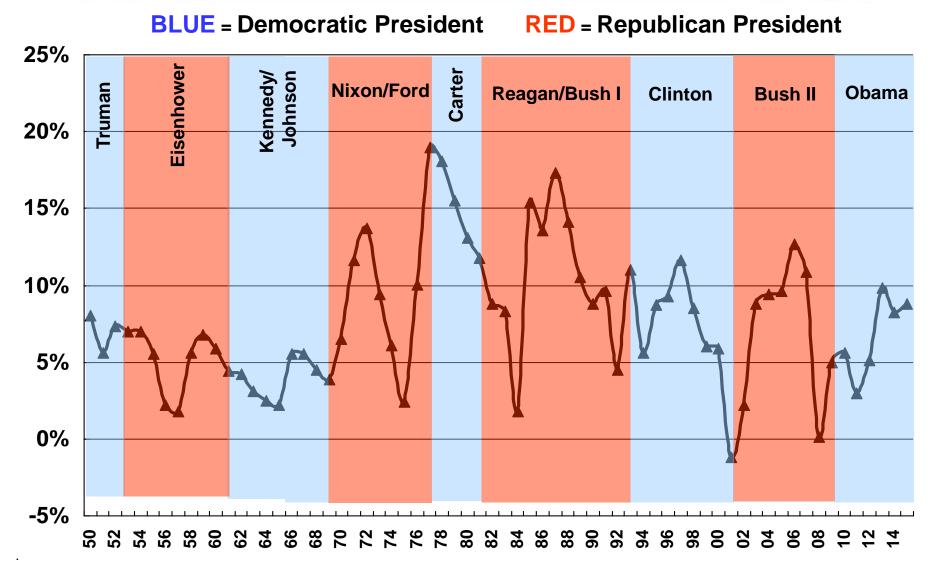




<sup>\*</sup>Truman administration ROE of 6.97% based on 3 years only, 1950-52;. Source: Insurance Information Institute

### P/C insurance Industry ROE by Presidential Party Affiliation, 1950- 2015\*





Source: Insurance Information Institute

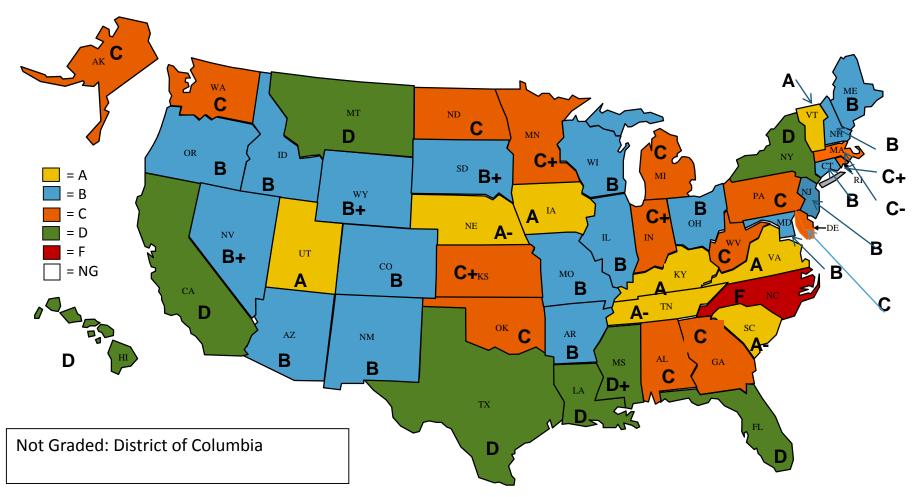
### Trump vs. Clinton: Issues that Matter to P/C Insurers



Issue	Trump	Clinton
Economy	Supply Side-Like Philosophy: Lower taxes→Faster real GDP growth; Deficits likely grow as tax cuts are combined with targeted increased spending on Homeland Security, Defense, etc.	Keynesian Philosophy: More government spending on infrastructure, education, social services; Deficits likely increase as tax increases likely difficult to pass
Interest Rates	May trend higher with larger deficits; Shift from monetary policy to fiscal focus (tax cuts, government spending)	Status quo at the Fed; Net impact on interest rates unclear
Taxes	Favors lower tax rates for corporate and personal income tax rates; Tax code overhaul?	Unlikely to reduce taxes or embark on major overhaul of tax code
International Trade	Protectionist Tendencies (appeal primarily to manufacturing sector)	Has criticized Trans-Pacific Partnership but is a realist on international matters
Tort System	Doesn't like trial lawyers but seems to like filing lawsuits	Status Quo
Health Care	ACA should be repealed & replaced	Incremental Change

### 2015 Property and Casualty Insurance Regulatory Report Card





Source: R Street Insurance Regulation Report Card, December 2015

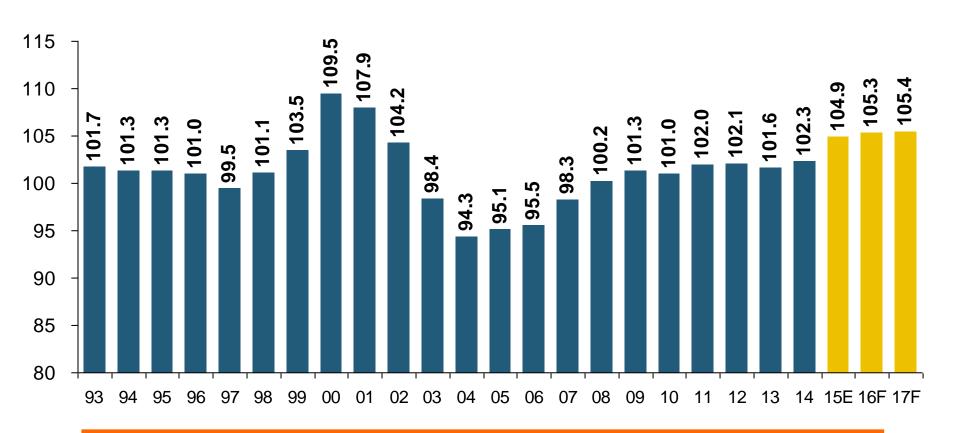


## Personal Lines Underwriting Performance

Auto, Home Underwriting Performance Exhibit Periods of Both Stability and Volatility

#### Private Passenger Auto Combined Ratio: 1993–2017F

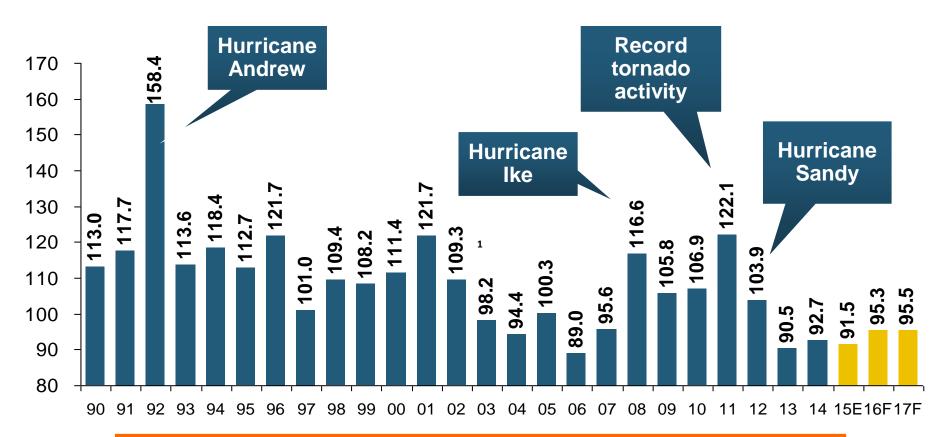




Private Passenger Auto Underwriting Performance Is Showing the Strains of Rising Frequency (and Severity) Trends in Many States

### Homeowners Insurance Combined Ratio: 1990–2017F

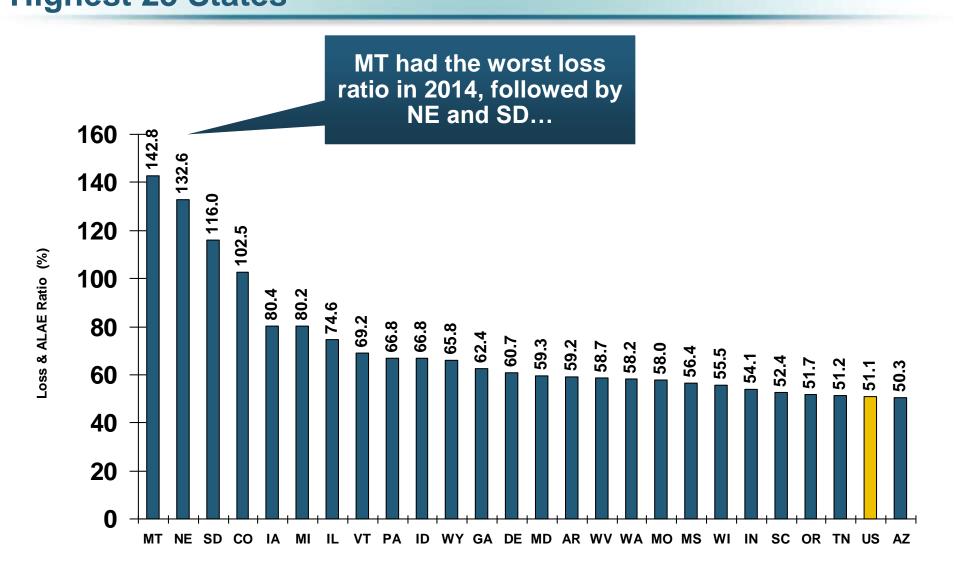




Homeowners Performance Has Improved Markedly Since the 2011/12's Large Cat Losses. Extreme Regional Variation Can Be Expected Due to Local Catastrophe Loss Activity. Results in 2016 Will Be Impacted by Severe Spring Weather

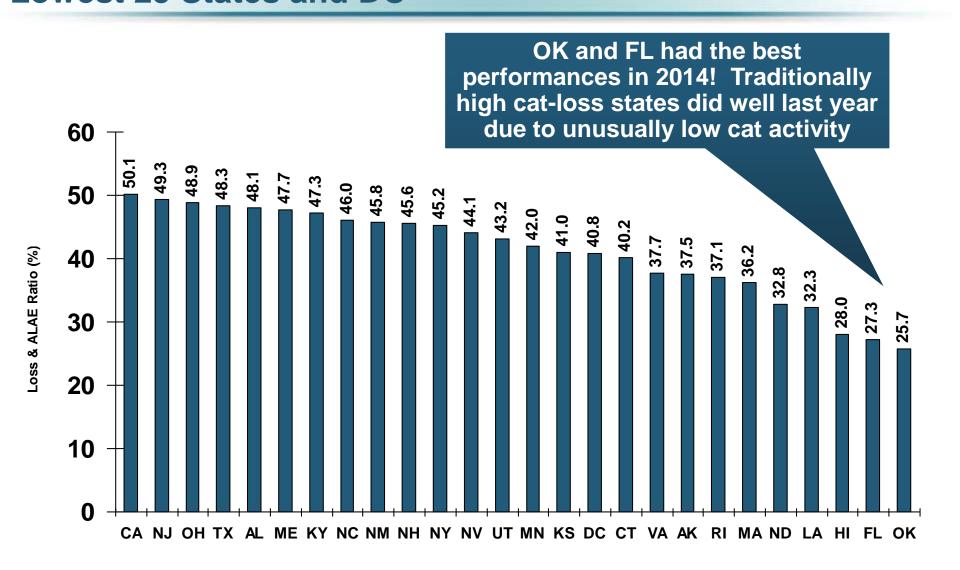
#### Homeowners Multi-Peril Loss & ALAE Ratio, 2014: Highest 25 States





#### Homeowners Multi-Peril Loss & ALAE Ratio, 2014: The Lowest 25 States and DC





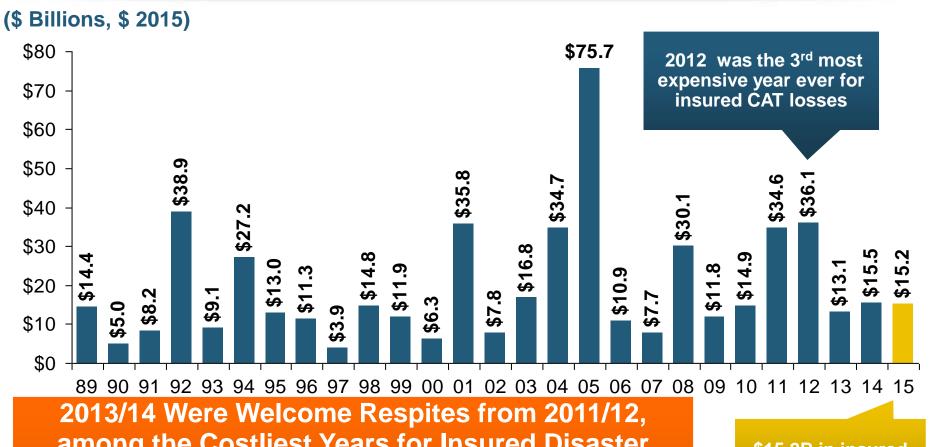


#### **Insured Catastrophe Losses**

2013/14 and YTD 2015 Experienced Below Average CAT Activity After Very High CAT Losses in 2011/12 Winter Storm Losses Far Above Average in 2014 and 2015

#### **U.S. Insured Catastrophe Losses**





2013/14 Were Welcome Respites from 2011/12, among the Costliest Years for Insured Disaster Losses in US History. Longer-term Trend is for more—not fewer—Costly Events

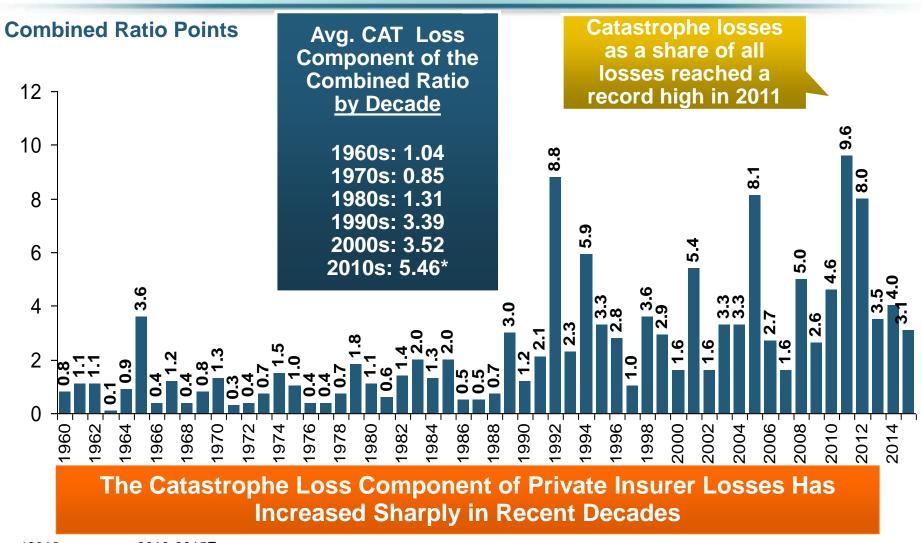
\$15.2B in insured CAT losses though 12/31/15

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/ISO; Insurance Information Institute.

### Combined Ratio Points Associated with Catastrophe Losses: 1960 – 2015E\*





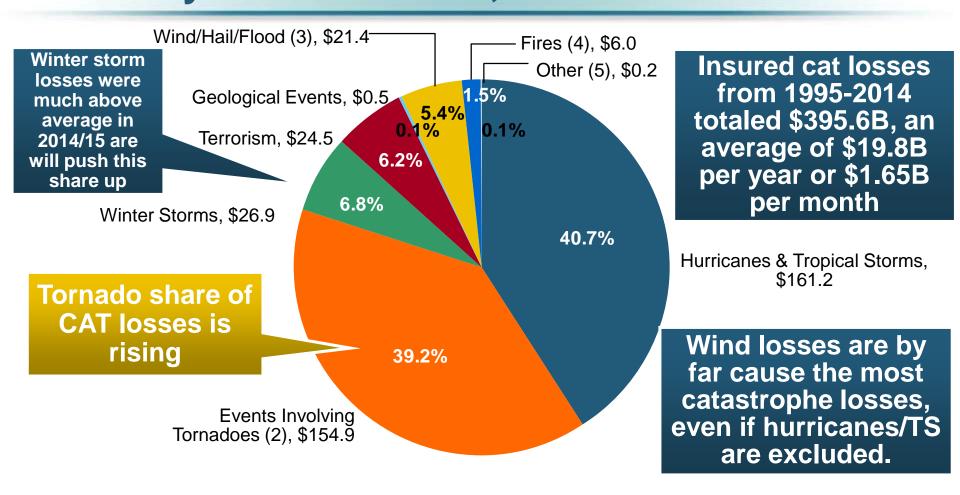
<sup>\*2010</sup>s represent 2010-2015E.

Notes: Private carrier losses only. Excludes loss adjustment expenses and reinsurance reinstatement premiums. Figures are adjusted for losses ultimately paid by foreign insurers and reinsurers.

Source: ISO (1960-2009); A.M. Best (2010-15E) Insurance Information Institute.

### Inflation Adjusted U.S. Catastrophe Losses by Cause of Loss, 1995–2014<sup>1</sup>





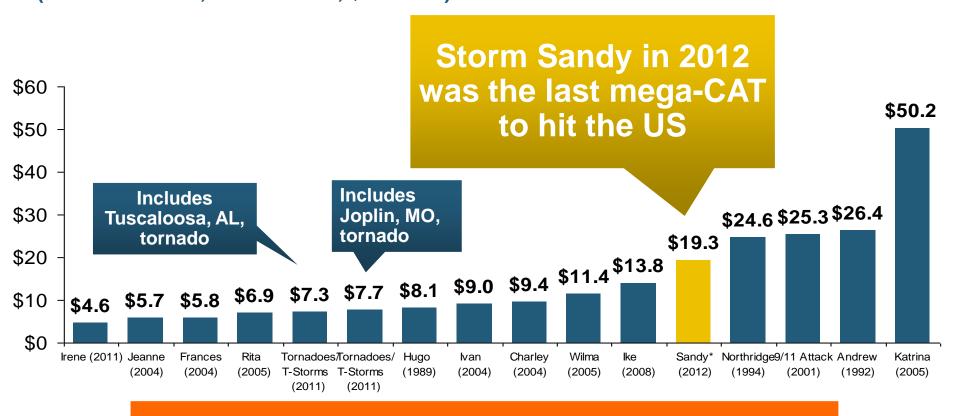
- 1. Catastrophes are defined as events causing direct insured losses to property of \$25 million or more in 2014 dollars.
- 2. Excludes snow.
- Does not include NFIP flood losses
- 4. Includes wildland fires
- 5. Includes civil disorders, water damage, utility disruptions and non-property losses such as those covered by workers compensation.

Source: ISO's Property Claim Services Unit.

### Top 16 Most Costly Disasters in U.S. History—Katrina Still Ranks #1



(Insured Losses, 2014 Dollars, \$ Billions)

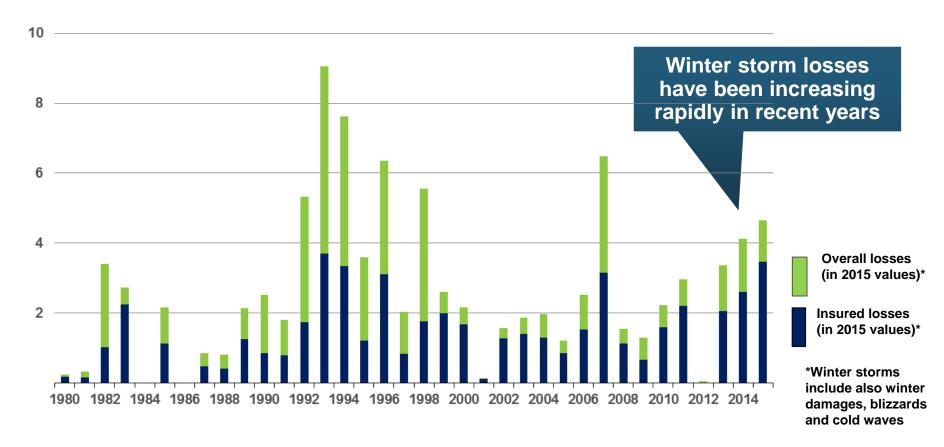


12 of the 16 Most Expensive Events in US History
Have Occurred Since 2004

### Winter Storm Losses in the US 1980 – 2015 (Overall and Insured Losses)\*



#### \$ Billions

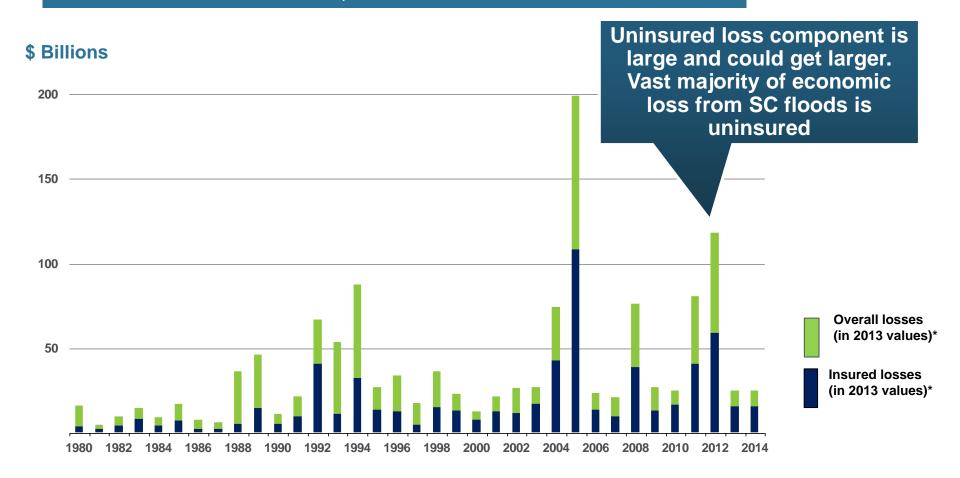


#### Loss Events in the US, 1980 – 2014



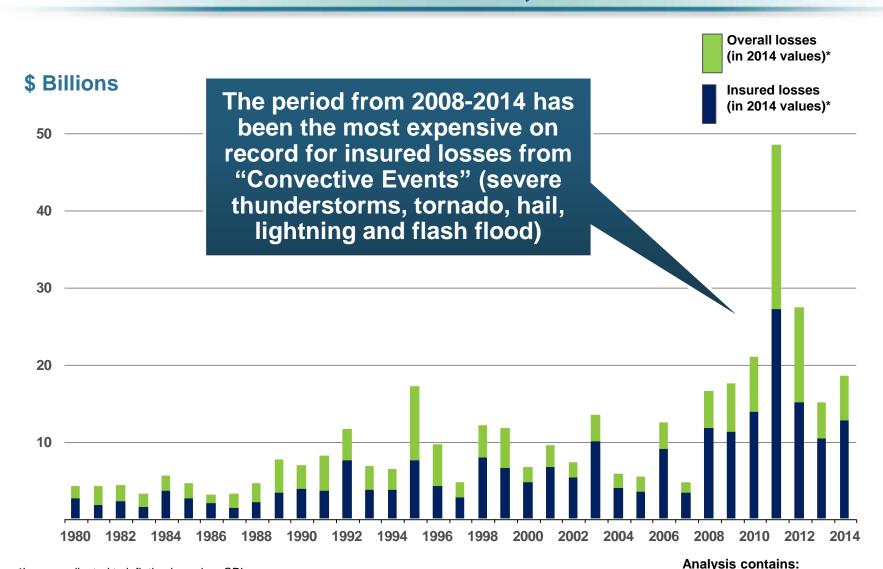
**Overall and Insured Losses** 

#### Overall losses totaled \$25bn; Insured losses totaled \$15.3bn



#### Convective Loss Events in the US Overall and insured losses, 1980 – 2014





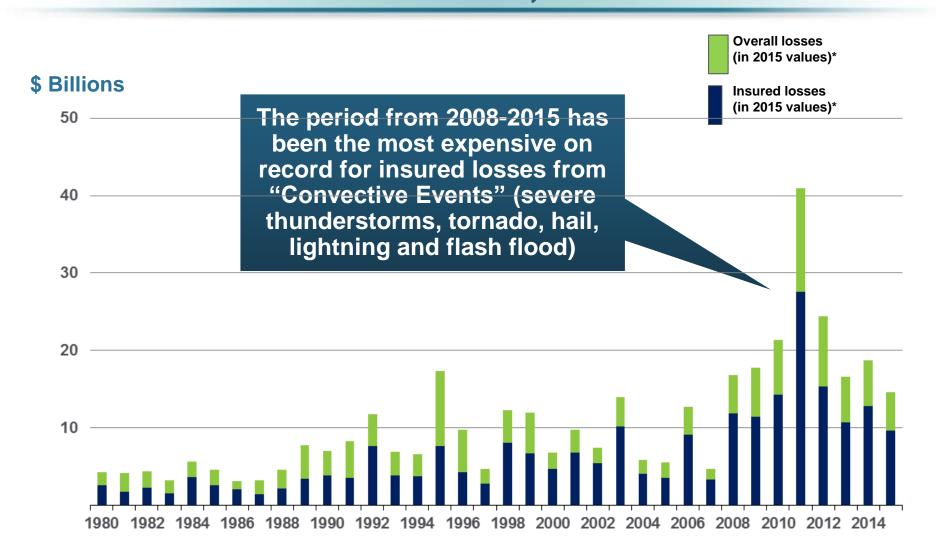
\*Losses adjusted to inflation based on CPI

Source: Geo Risks Research, NatCatSERVICE

severe storm, tornado, hail, flash flood and lightning

#### Convective Loss Events in the US Overall and insured losses, 1980 – 2015





<sup>\*</sup>Losses adjusted to inflation based on CPI

severe storm, tornado, hail, flash flood and lightning

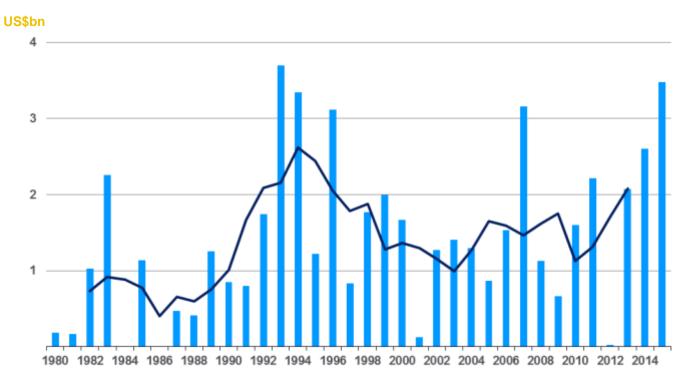
**Analysis contains:** 



#### INSURANCE INFORMATION INSTITUTE

#### Loss events in the U.S. 1980 - 2015

#### Insured losses of winter storms\*





5 year Mean

\*Winter storms include also winter damages, blizzards and cold waves

\*\*Losses adjusted to inflation based on country CPI

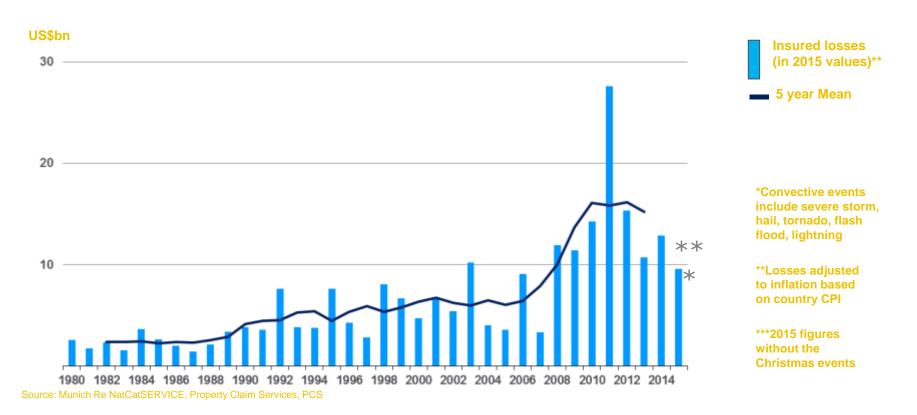
 $Source: Munich \ Re \ Nat Cat SER VICE, \ Property \ Claim \ Services, \ PCS$ 



#### INSURANCE INFORMATION INSTITUTE

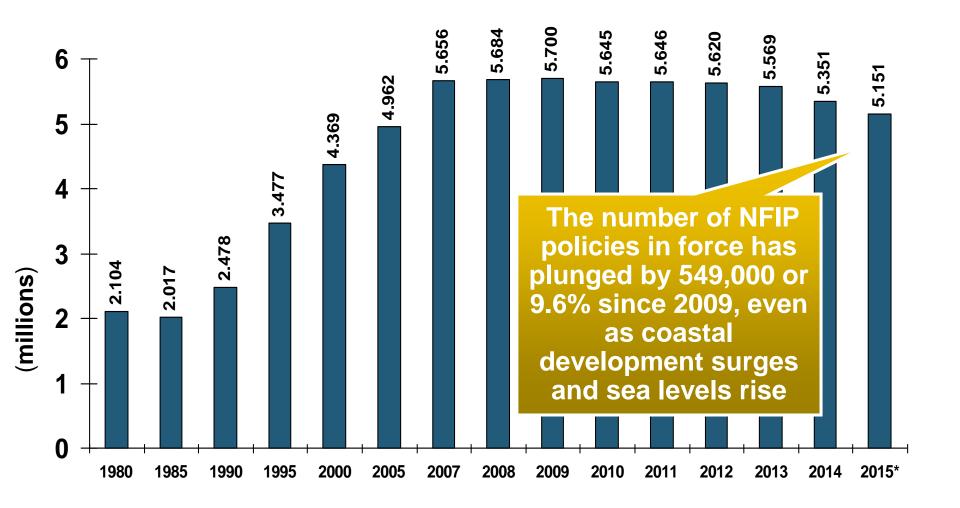
#### Loss events in the U.S. 1980 - 2015

#### Insured losses of convective events\*



#### Number of National Flood Insurance Program Policies in Force at Year-End, 1980-2015\*





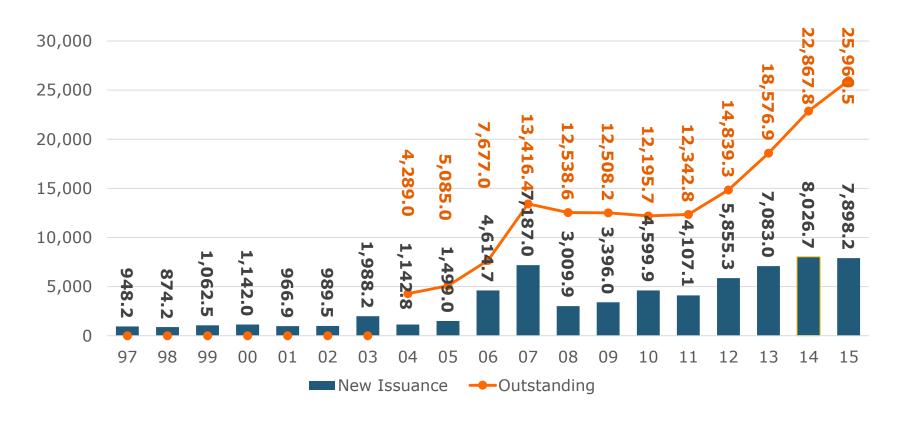
Source: National Flood Insurance Program.

<sup>\*</sup> As of July, 2015

### Catastrophe Bond Issuance and Outstanding: 1997-2015



#### **Risk Capital Amount (\$ Millions)**



Cat Bond Issuance Declined Slightly in 2015 from 2014's Record Pace.

Lower Yields on Bonds Explain Some of the Contraction.

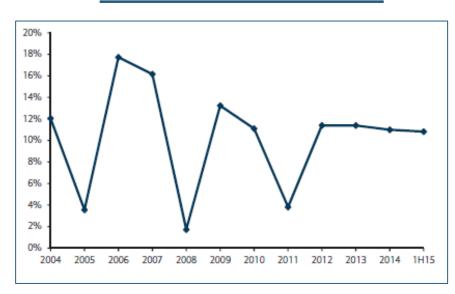
### US Property CAT Rate on Line Index & Global Reinsurance ROE



#### **US Property CAT ROL**



#### **Global Reinsurance ROE**

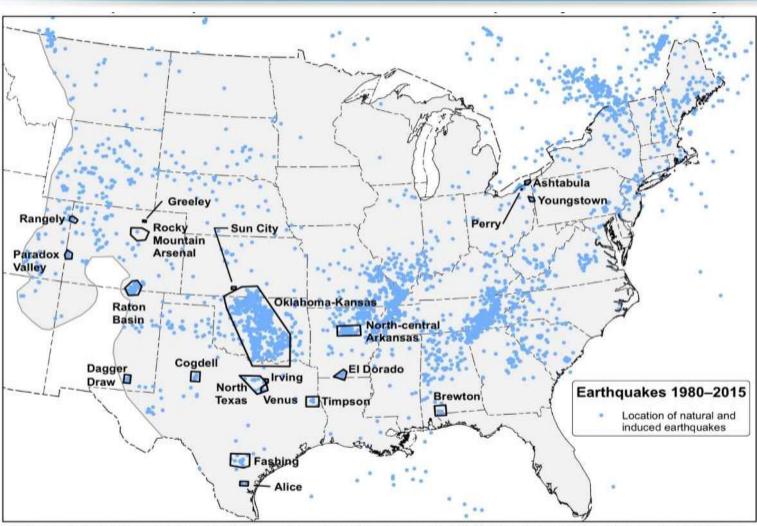


Record traditional capacity, alternative capital and low CAT activity have pressured reinsurance prices; ROEs are own only very modestly

Source: Barclays PLC from Guy Carpenter; Insurance Information Institute.

### Earthquakes Since 1980 and Recent Area Impacted by Induced Seismicity





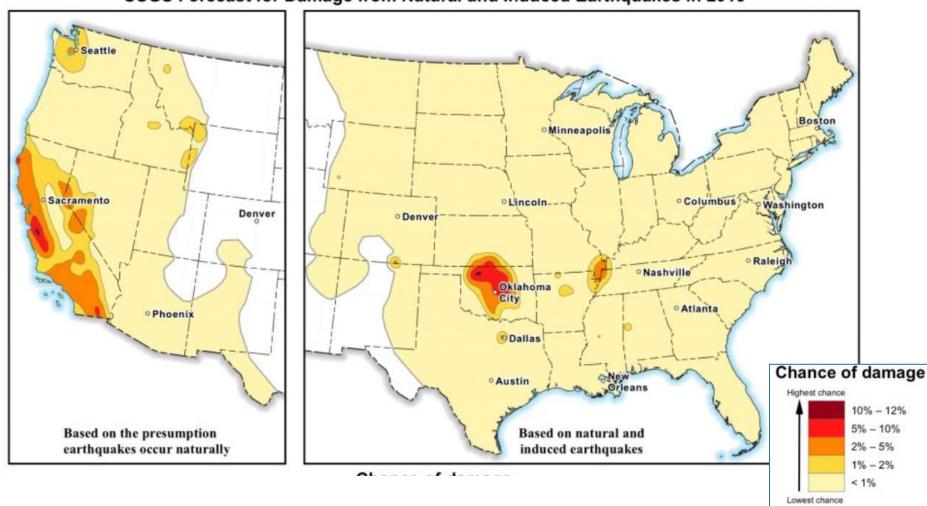
USGS map displaying 21 areas where scientists have observed rapid changes in seismicity that have been associated with wastewater injection. The map also shows earthquakes—both natural and induced—recorded from 1980 to 2015 in the central and eastern U.S. with a magnitude greater than or equal to 2.5.

Sources: <a href="http://www.usgs.gov/blogs/features/usgs">http://www.usgs.gov/blogs/features/usgs</a> top story/induced-earthquakes-raise-chances-of-damaging-shaking-in-2016/?from=title; Insurance Information Institute.

### 2016 Natural and Induced Earthquake Damage Forecast

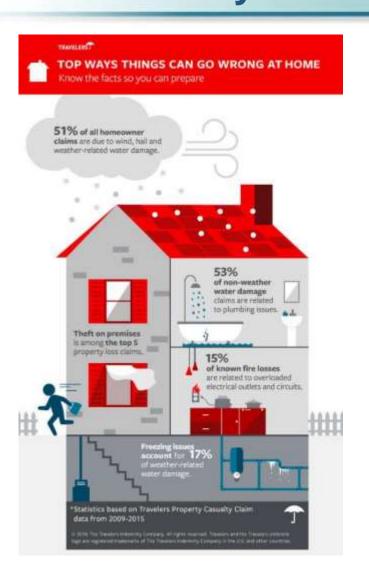


#### USGS Forecast for Damage from Natural and Induced Earthquakes in 2016



### Effective Use of Data, Infographics to Get Out a Key Message





#### **Top 5 Most Common Causes of Homeowners Insurance Claims**

- Exterior wind damage 25 percent of all losses.
- Non-weather-related water damage (e.g., plumbing or appliance issues) – 19 percent.
- Hail 15 percent.
- Weather-related water damage (e.g., rain, melting ice, snow) – 11 percent.
- Theft 6 percent.

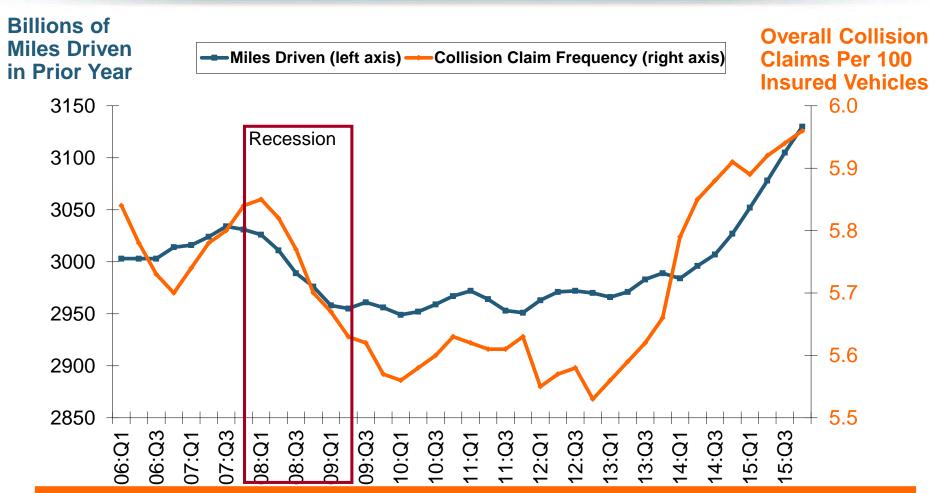


### A Few Factors Driving Adverse Private Passenger Auto Loss Trends

## More People Driving, Lower Gas Prices, Higher Speed Limits...

#### More Miles Driven => More Collisions, 2006–2015:Q4



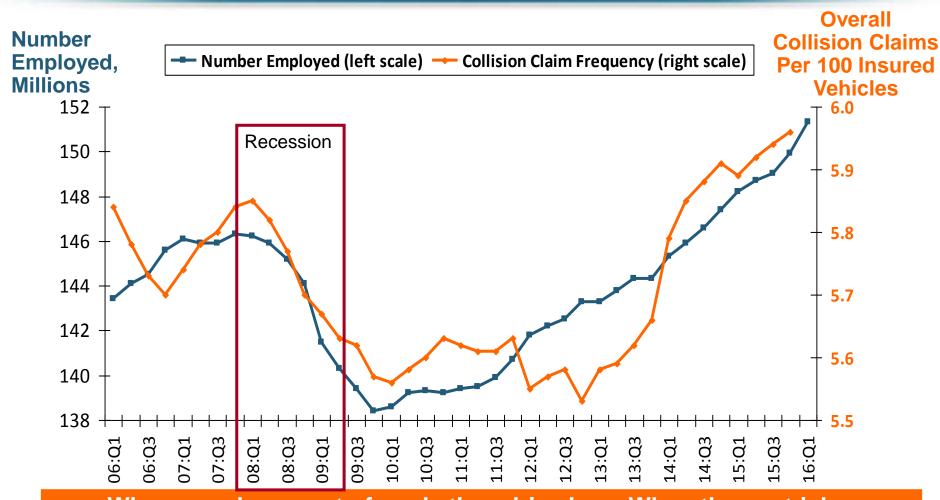


The more miles people drive, the more likely they are to get in an accident, helping drive claim frequency higher.

Sources: Federal Highway Administration (<a href="http://www.fhwa.dot.gov/policyinformation/travel\_monitoring/tvt.cfm">http://www.fhwa.dot.gov/policyinformation/travel\_monitoring/tvt.cfm</a>); Rolling Four-Qtr Avg. Frequency from Insurance Services Office; Insurance Institute for Highway Safety; Insurance Information Institute.

### More People Working and Driving => More Collisions, 2006-2016



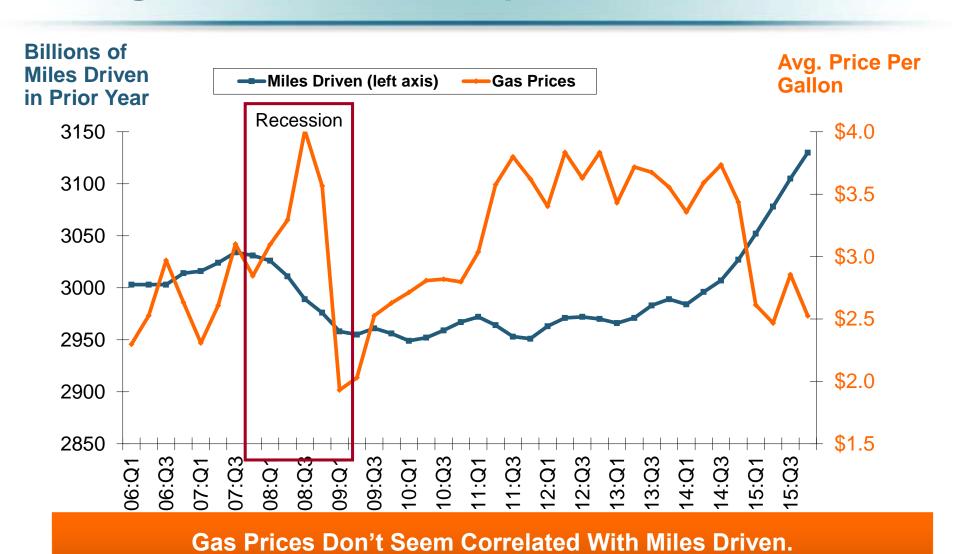


When people are out of work, they drive less. When they get jobs, they drive to work, helping drive claim frequency higher.

Sources: Seasonally Adjusted Employed from Bureau of Labor Statistics; Rolling Four-Qtr Avg. Frequency from Insurance Services Office; Insurance Information Institute.

### Why Are People Driving More Miles? Cheap Gas?

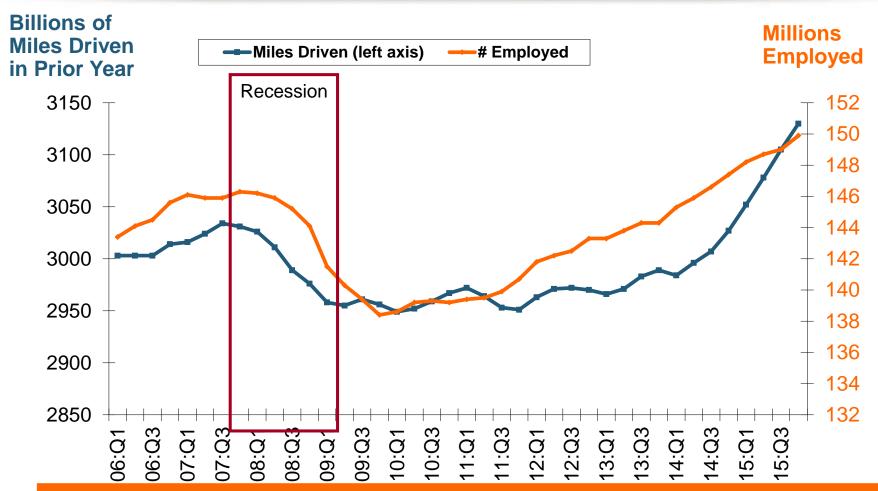




Sources: Federal Highway Administration (<a href="http://www.fhwa.dot.gov/policyinformation/travel\_monitoring/tvt.cfm">http://www.fhwa.dot.gov/policyinformation/travel\_monitoring/tvt.cfm</a>); <a href="mailto:Energy Information-notation">Energy Information</a> (<a href="http://www.fhwa.dot.gov/policyinformation/travel\_monitoring/tvt.cfm">http://www.fhwa.dot.gov/policyinformation/travel\_monitoring/tvt.cfm</a>); <a href="mailto:Energy Information-nota

### Why Are People Driving More Miles? Jobs?



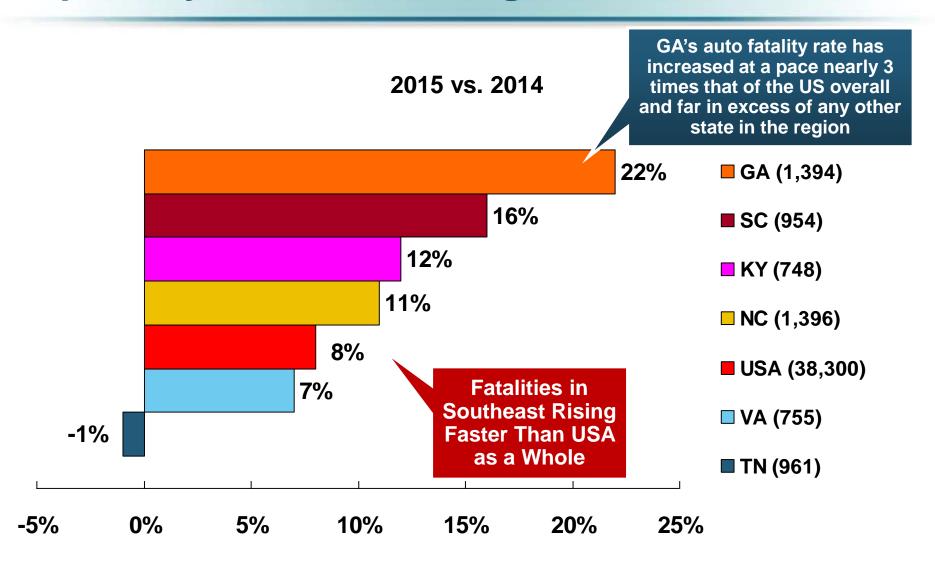


People Drive To and From Work and Drive to Entertainment. Out of Work, They Curtail Their Movement.

Sources: Federal Highway Administration (<a href="http://www.fhwa.dot.gov/policyinformation/travel\_monitoring/tvt.cfm">http://www.fhwa.dot.gov/policyinformation/travel\_monitoring/tvt.cfm</a>); Seasonally Adjusted Employed from Bureau of Labor Statistics; Insurance Institute for Highway Safety; Insurance Information Institute.

### Change in Auto Fatalities by State: Especially Severe in Georgia

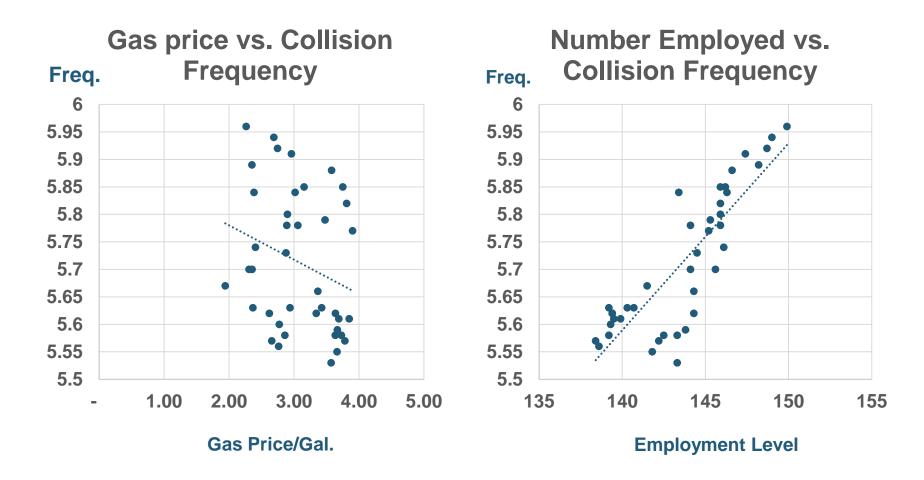




SOURCE: Estimates from National Safety Council.

### Comparing Gas Prices, Employment on Collision Frequency





Sources: Seasonally Adjusted Employed from Bureau of Labor Statistics; Energy Information Administration; Rolling Four-Qtr Avg. Frequency from Insurance Services Office; Insurance Information Institute.

#### Return on Net Worth: Personal Auto, 2005-2014

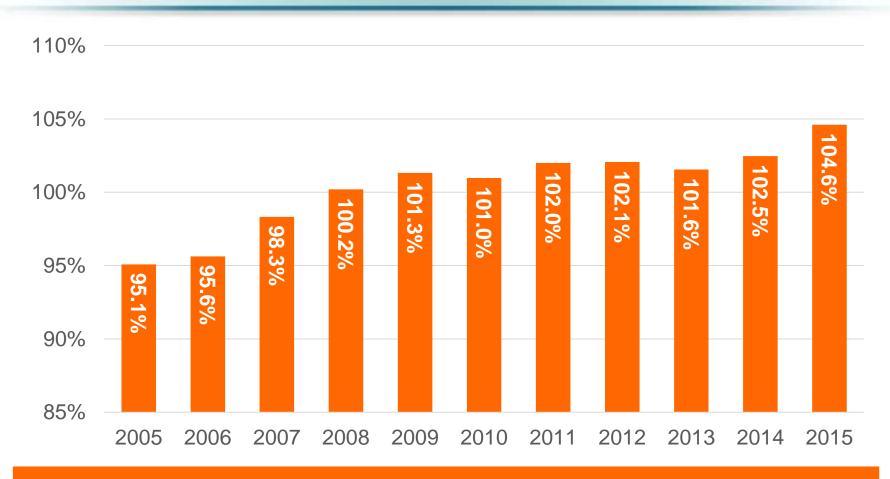




Auto Insurance Profitability Has Been Falling for A Decade.

#### Net Combined Ratio, 2005-2015





Loss Ratios Have Been Rising for A Decade. 2015 Return on Net Worth Is Likely Close to Zero or Negative.

SOURCE: National Association of Insurance Commissioners data, sourced from S&P Global Market Intelligence; Insurance Information Institute.



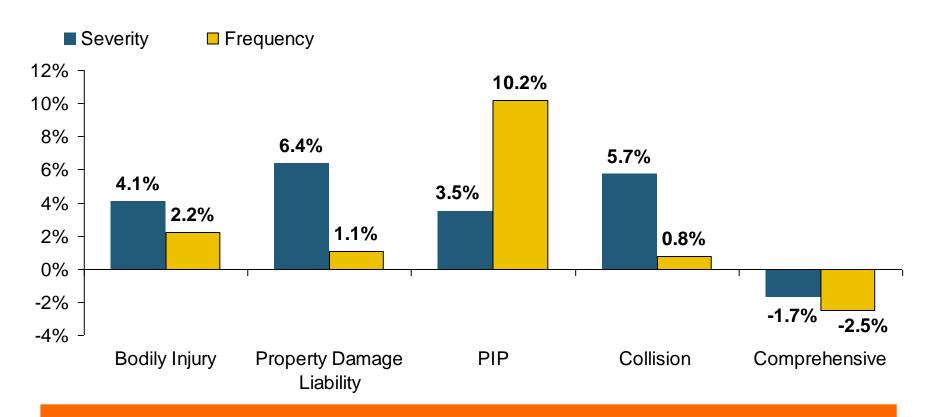
## Claim Trends in Private Passenger Auto Insurance

# Rising Frequencies and Severities in Many Coverages Will that Pattern Be Sustained?

# Auto Severity & Frequency by Coverage: Trending Up in 2015



#### Annual Change, 2015 Over 2014

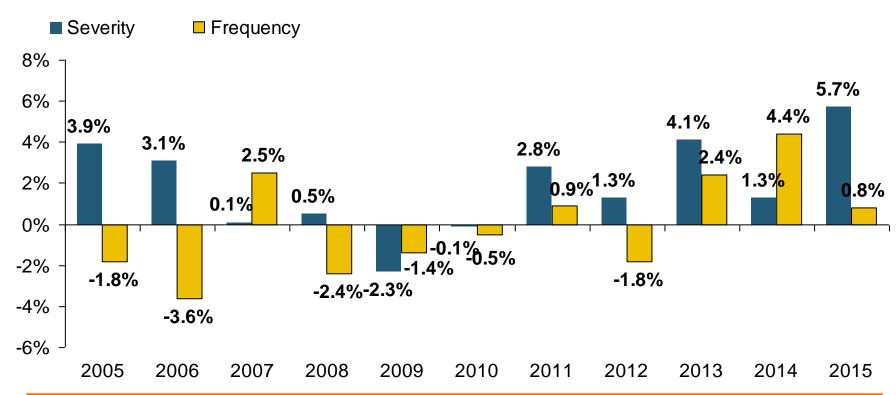


Frequency and Severity Were Up Across Most Coverage Types in 2015; A Trend Likely to Continue in 2016

### Collision Coverage: Severity & Frequency Trends Are Both Higher in 2015



#### Annual Change, 2005 through 2015

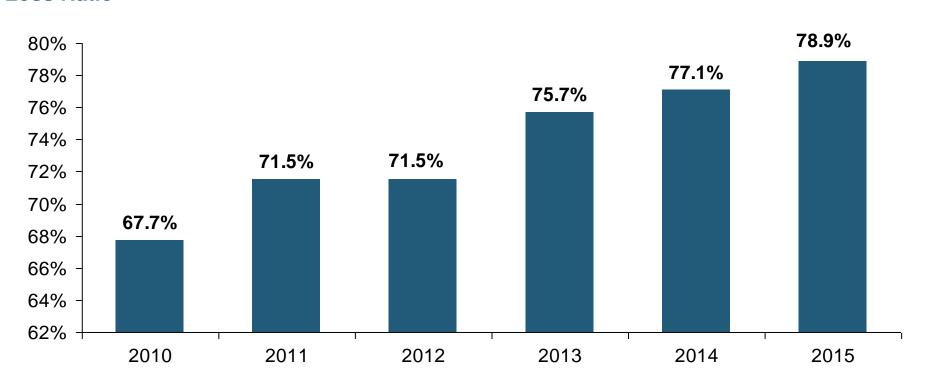


The Recession, High Fuel Prices Helped Temper Frequency and Severity, But this Trend Has Clearly Reversed, Consistent with Experience from Past Recoveries

# Collision Loss Ratio Trending Upward: Private Passenger Auto, 2010 – 2015



#### **Loss Ratio**

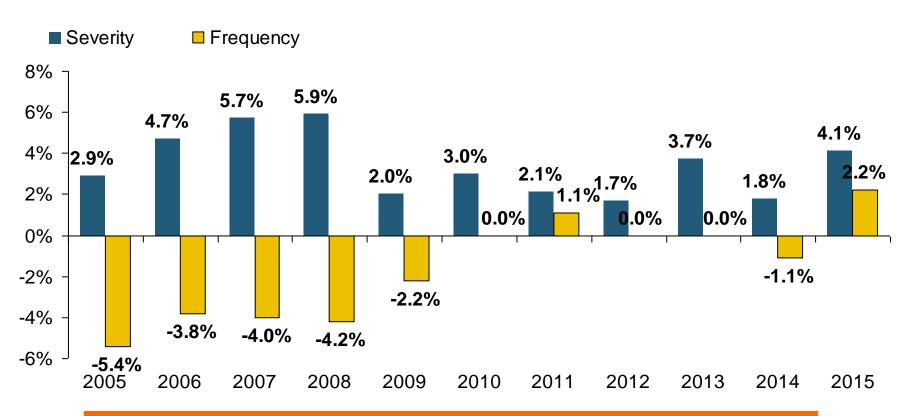


**Collision Loss Ratios are Trending Steadily Upward** 

# Bodily Injury: Severity Trend Is Up, Frequency Decline Has Ended—Rising?



#### Annual Change, 2005 through 2015

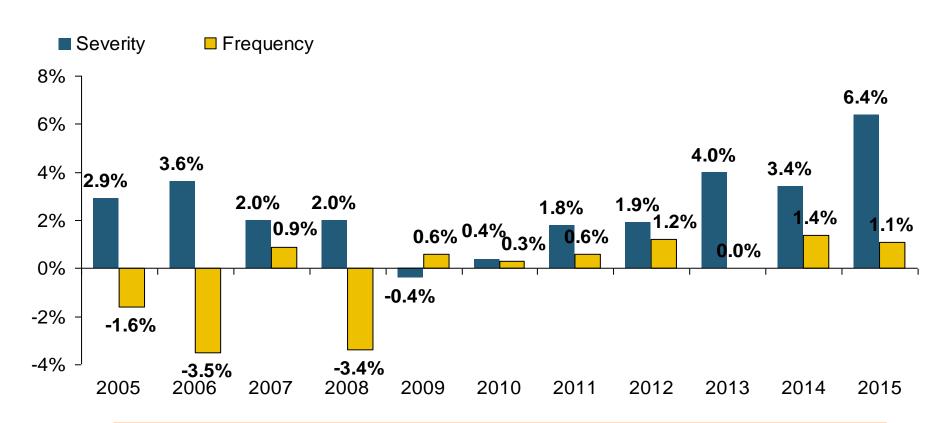


Cost Pressures Will Increase if BI Frequency and Severity Trends Persist

# Property Damage Liability: Severity and Frequency Are Up



#### Annual Change, 2005 through 2015

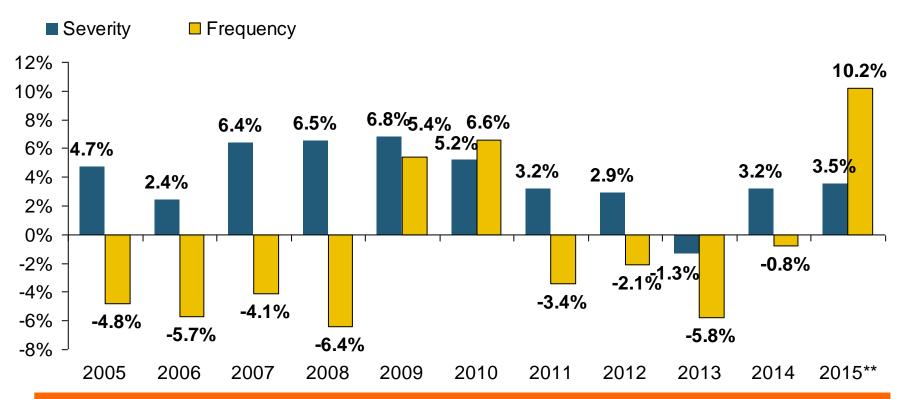


Severity/Frequency Trends Have Been Volatile, But Rising Severity since 2011 Is a Concern

### No-Fault (PIP) Liability: Severity is Up, Frequency Relatively Flat\*



#### Annual Change, 2005 through 2015

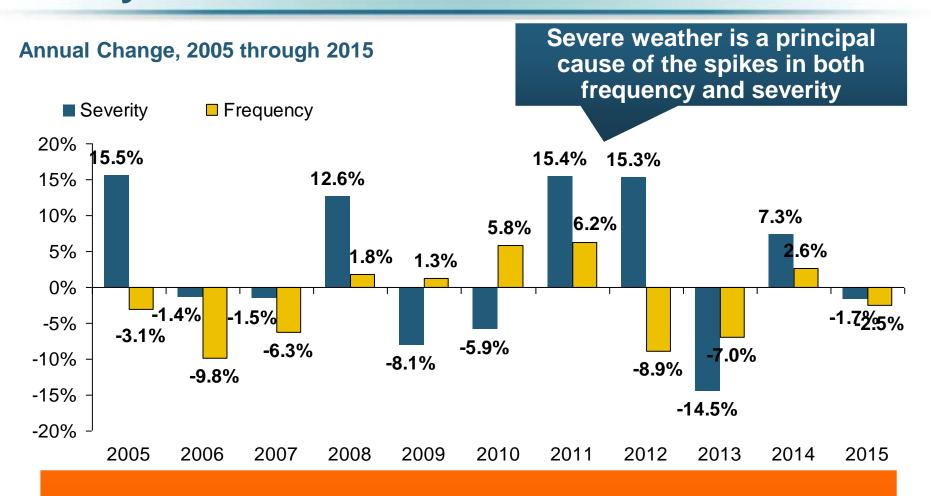


No-Fault Systems Are Less Problematic in Some States but Still of Concern in Some, Such as MI

\*No-fault states included are: FL, HI, KS, KY, MA, MI, MN, NY, ND and UT. Source: ISO/PCI *Fast Track* data: Insurance Information Institute

### Comprehensive Coverage: Frequency and Severity Trends Are Volatile

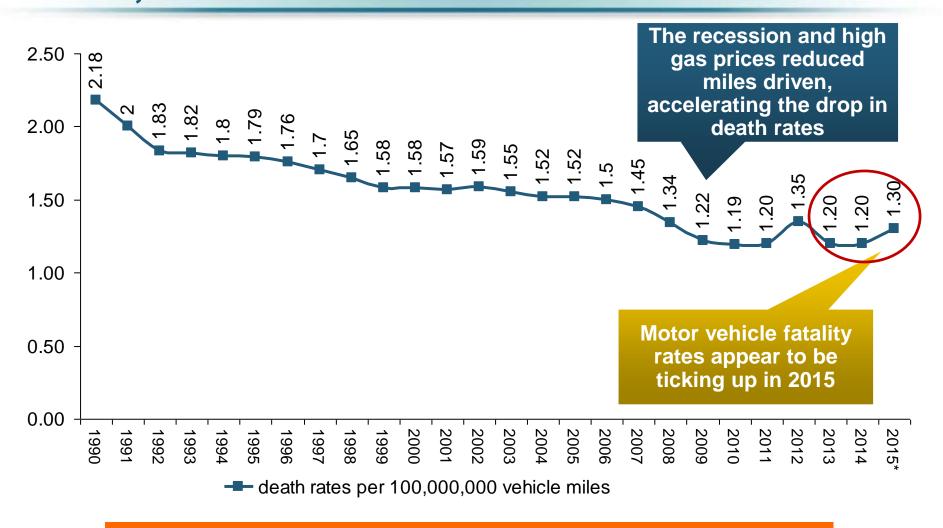




**Weather Creates Volatility for Comprehensive Coverage** 

# Death Rates per 100,000,000 Vehicle miles, 1990-2015\*





Vehicle death rates fell by nearly half between 1990 and 2010

<sup>\*</sup>Projected rate for 2015 based on date through June 2015. Source: National Safety Council; Insurance Information Institute.

### **Auto Insurance: Claim Frequency Impacts of Energy Crisis of 1973/4**



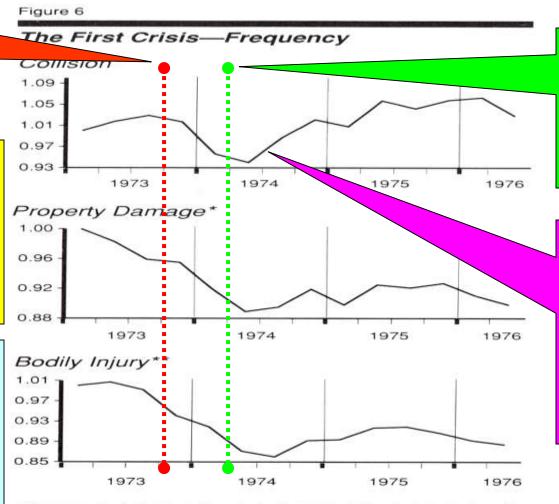
Oct. 17, 1973: Arab oil embargo begins

Frequency
<u>Impacts</u>
Collision: -7.7%

PD: -9.5% BI: -13.3%

**Driving Stats** 

- •Gas prices rose 35-40%
  - •Miles driven fell 6.7% in 1974



1974: Arab oil states announce end to embargo

March 17,

Frequency
began to
rebound
almost
immediately
after the
embargo
ended

\*\*ISO Paid Data, year-ended quarter indexed to First Quarter 1973.

Source: ISO, US DOT.

<sup>\*</sup>Seasonally Adjusted, Quarterly Paid Fast Track data indexed to First Quarter 1973.

#### Auto Insurance: Claim Severity Impacts of Energy Crisis of 1973/4



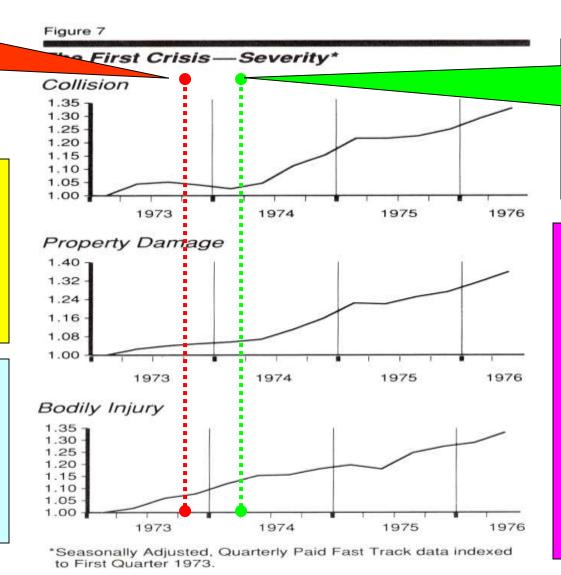
Oct. 17, 1973: Arab oil embargo begins

Severity
Impacts
Collision: 7.5%
PD: +15.9%

BI: N/A\*

Driving Stats
•Gas prices
rose 35-40%
•Miles driven
fell 6.7% in
1974

Source: ISO.



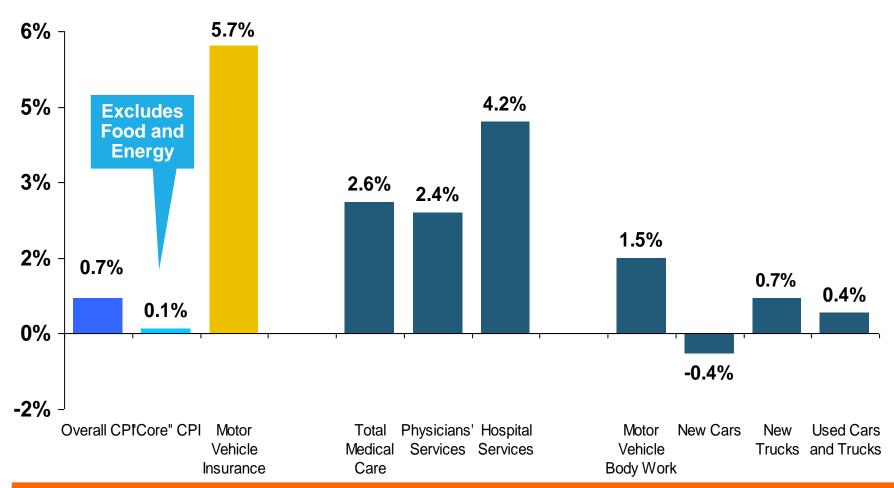
March 17, 1974: Arab oil states announce end to embargo

Collision
severity
began to
rebound
almost
immediately
after the
embargo
ended; PD
accelerated
as inflation
rose; No
discernable

#### Auto Insurance Claim Cost Drivers Continue to Grow Faster than CPI



Price Level Change: December 2015 vs. December 2014



Healthcare costs are a major cost driver and are expected to accelerate in the years ahead

#### Defense Costs and Cost Containment Expenses as a Percent of Incurred Losses, 2011 – 2013\*



#### (\$000)

	2011		2012		2013	
	Amount	As a percent of incurred losses	Amount	As a percent of incurred losses	Amount	As a percent of incurred losses
Products liability	\$1,140,230	72.0%	\$873,860	114.7%	\$1,166,236	75.1%
Medical malpractice	1,793,296	57.5	1,686,009	45.7	1,656,049	53.3
Commercial multiple peril (2)	1,896,935	37.6	2,022,739	46.0	2,096,543	37.7
Other liability	4,464,140	25.0	4,959,838	24.8	4,914,106	25.4
Workers compensation	3,087,836	12.6	3,071,093	12.3	3,012,719	12.3
Commercial auto liability	960,961	10.3	1,091,434	10.4	1,207,596	10.7
Private passenger auto liability	3,960,967	6.2	4,353,427	6.7	4,600,395	6.8
All liability lines	\$17,304,365	13.8%	\$18,058,400	13.9%	\$18,653,644	14.0%

Net of reinsurance, excludes state funds.

Defense and Cost
Containment expenses in
Pvt. Passenger Auto
Liability have edged up
slightly in recent years,
from 6.2% of incurred
losses to 6.8%

Source: SNL Financial; Insurance Information Institute.

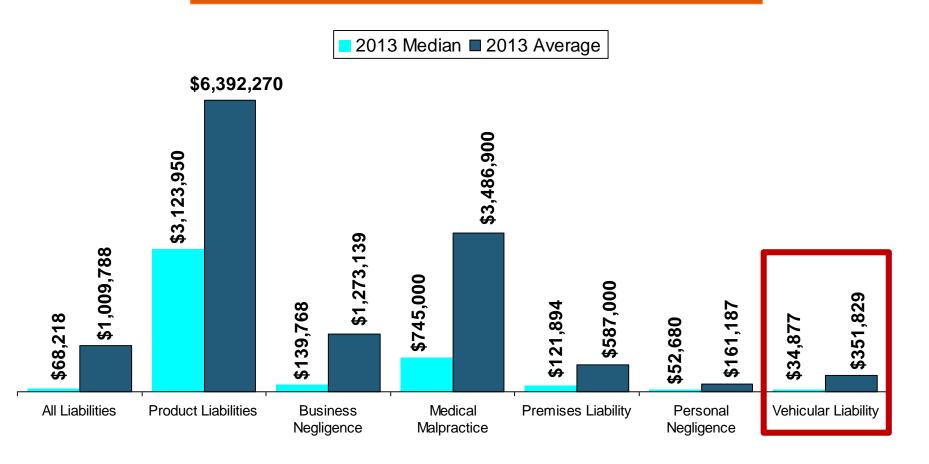
<sup>(2)</sup> Liability portion only.

<sup>\*</sup>Latest available.

# Median and Average Personal Injury Jury Award by Type of Liability, 2013



Porducts Liability and Medical Malpractice cases tend to have among the highest jury awards



Source: Current Award Trends in Personal Injury, 54th Edition; Insurance Information Institute.

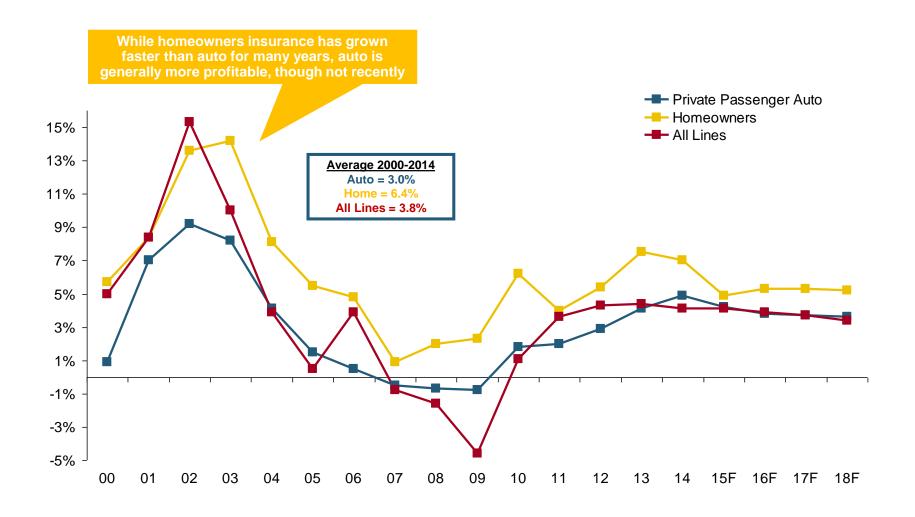


#### Personal Lines Growth Analysis

# Growth Trajectories Differ Substantially by State and Over Time

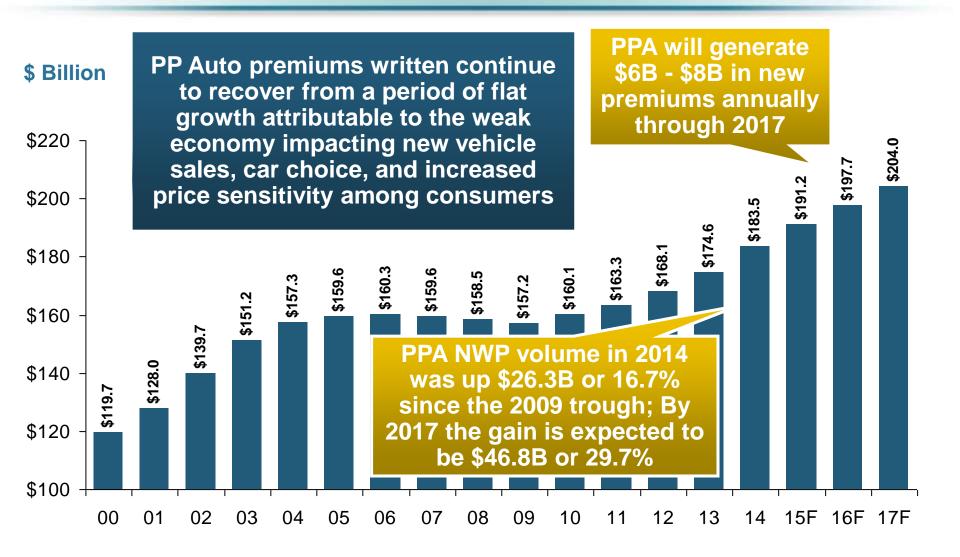
### Auto & Home vs. All Lines, Net Written Premium Growth, 2000–2018F





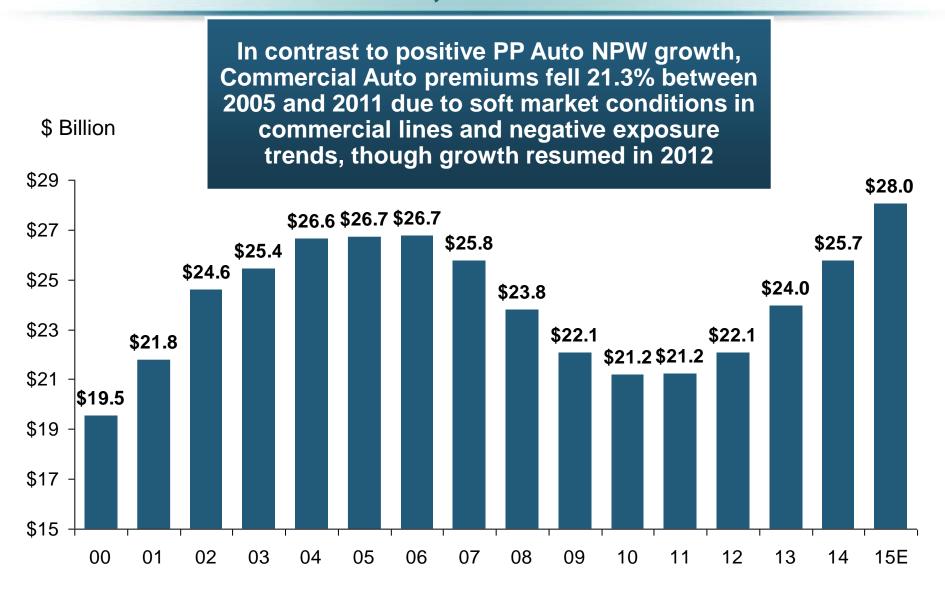
#### Private Passenger Auto Insurance Net Written Premium, 2000–2017F





#### Commercial Auto Insurance Net Written Premium, 2000–2015F





### Direct Premiums Written: PP Auto Percent Change by State, 2007-2014



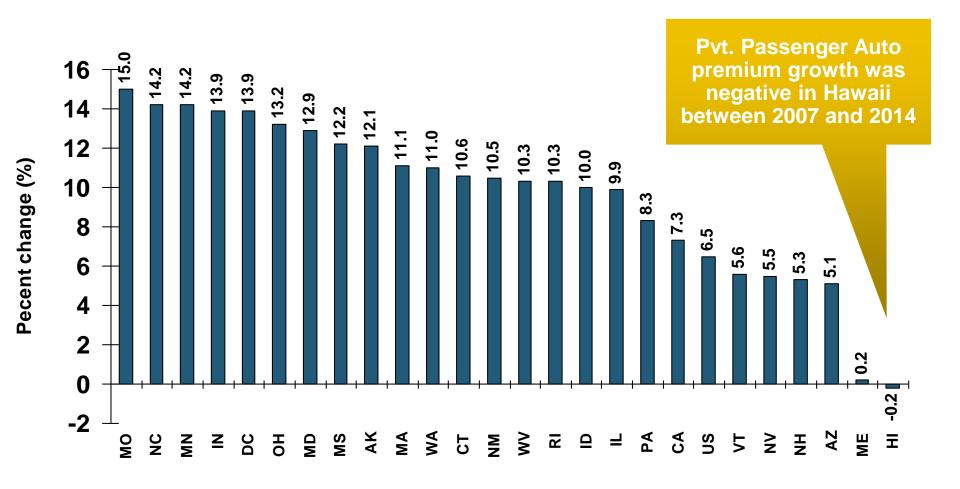




### Direct Premiums Written: PP Auto Percent Change by State, 2007-2014

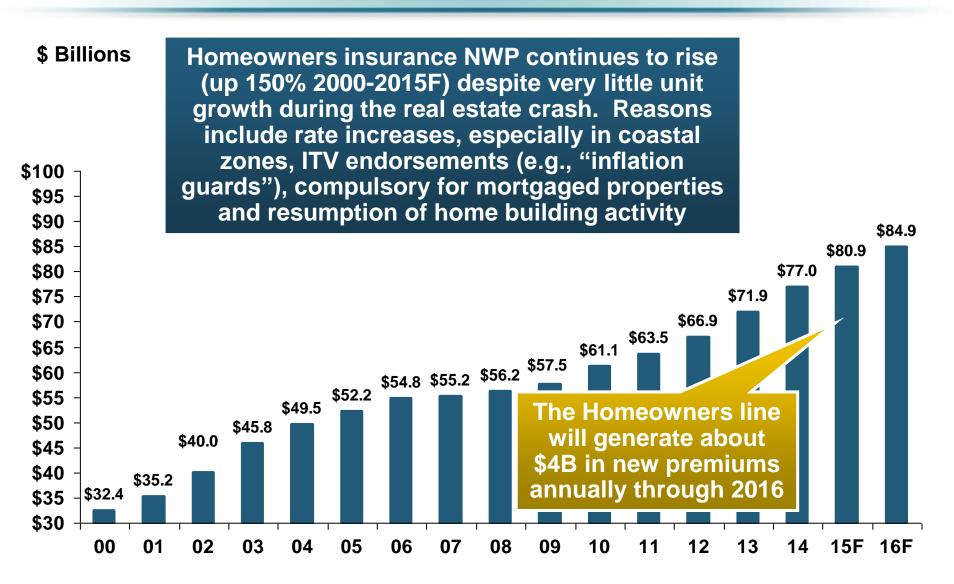


#### **Bottom 25 States**



#### Homeowners Insurance Net Written Premium, 2000–2016F





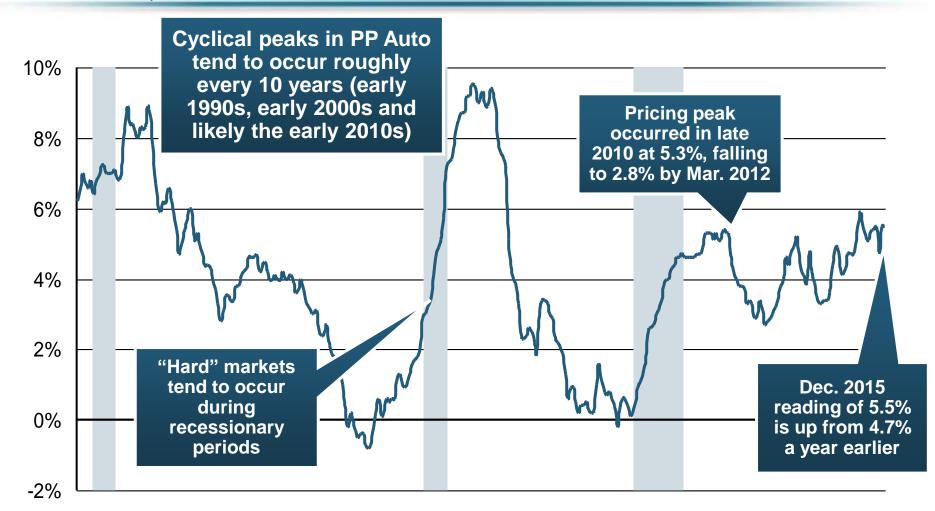


#### Personal Lines Growth Drivers

# Rate and Exposure are Both Presently Important Growth Drivers

### Monthly Change in Auto Insurance Prices, 1991–2015\*



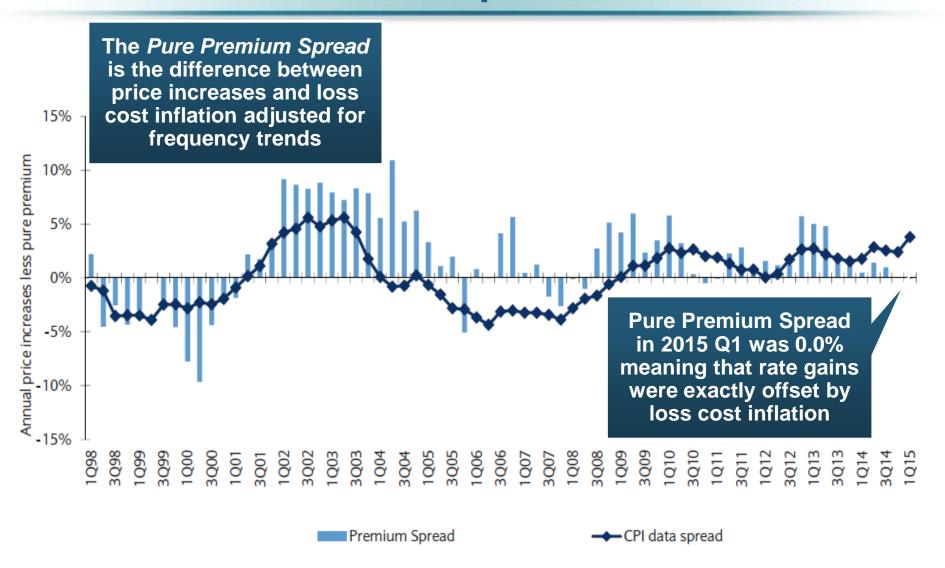


'90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15

<sup>\*</sup>Percentage change from same month in prior year; through Dec. 2015; seasonally adjusted Note: Recessions indicated by gray shaded columns.

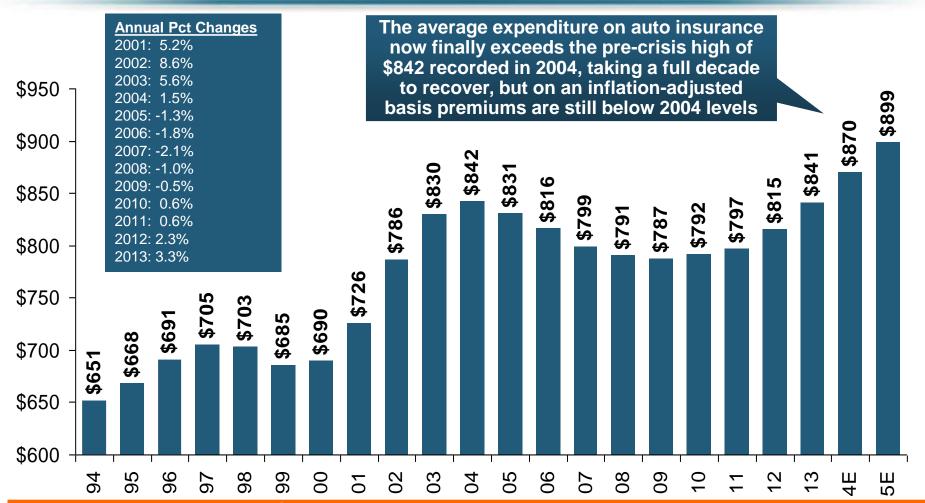
# Private Passenger Auto: Premium Growth vs. Loss Cost Spread





#### **Average Expenditures\* on Auto Insurance**, 1994-2015E





Across the U.S., auto insurance expenditures fell by 0.8% in 2008 and 0.5% in 2009 but rose 0.5% in 2010, 0.8% in 2011, 2.3% in 2012 and 3.3% in 2013; I.I.I. estimate is for +3.4% in 2014 and 2015.

<sup>\*</sup> The NAIC data are per-vehicle (actually, per insured car-year)
Sources: NAIC for 1994-2013; Insurance Information Institute estimates for 2014-2015 based on CPI and other data.



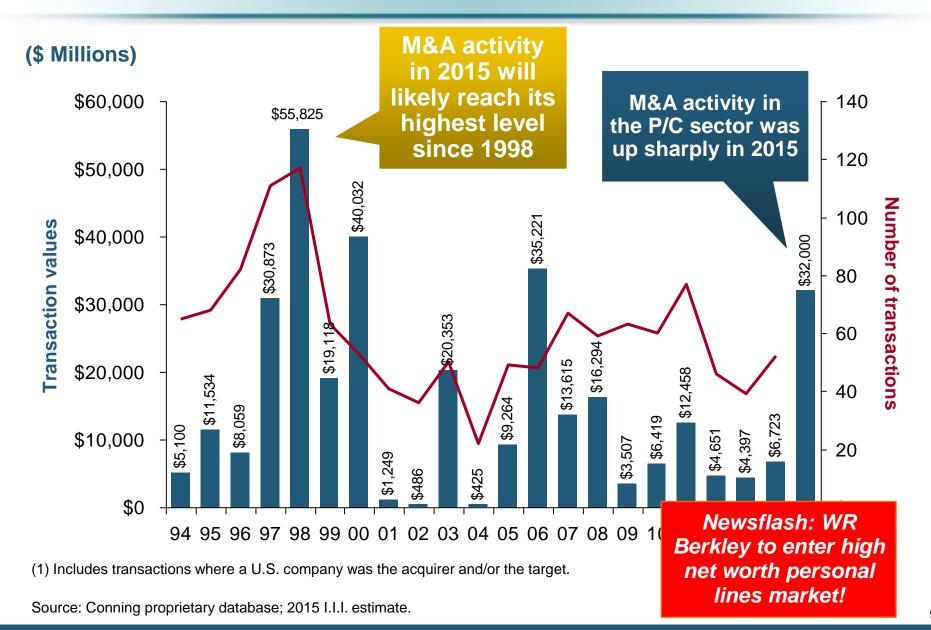
# M&A UPDATE: A PATH TO GROWTH?

Are Capital Accumulation, Drive for Growth and Scale Stimulating M&A Activity?

Not Currently Focused on Personal Lines

#### U.S. INSURANCE MERGERS AND ACQUISITIONS, P/C SECTOR, 1994-2015E (1)





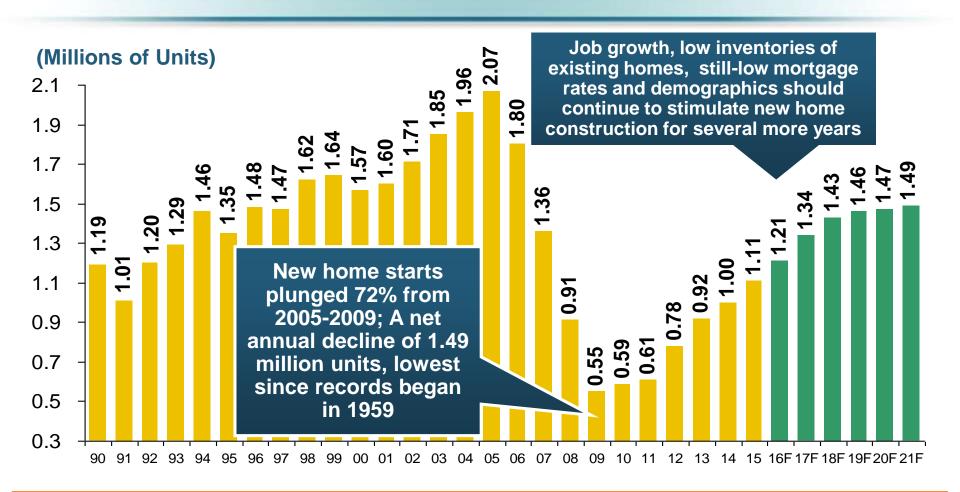


# Personal Lines: Economic and Demographic Considerations

#### Auto, Home Are Sensitive to Underlying Economic Conditions

#### New Private Housing Starts, 1990-2021F



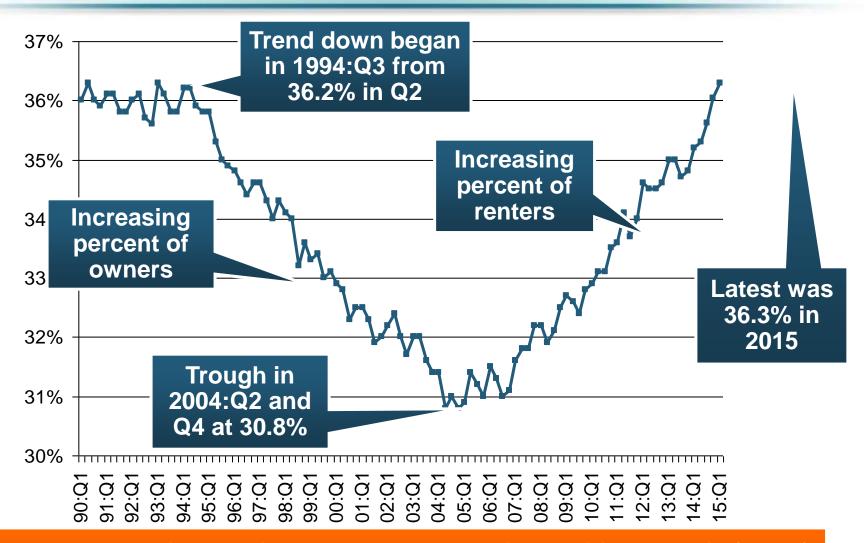


Insurers Are Continue to See Meaningful Exposure Growth in the Wake of the "Great Recession" Associated with Home Construction: Construction Risk Exposure, Surety, Commercial Auto; Potent Driver of Workers Comp Exposure

Source: U.S. Department of Commerce; Blue Chip Economic Indicators (5/16 for 2016-17; 3/16 for 2018-21F; Insurance Information Institute.

#### Rental-Occupied Housing Units as % of Total Occupied Units, Quarterly, 1990:Q1-2015\*





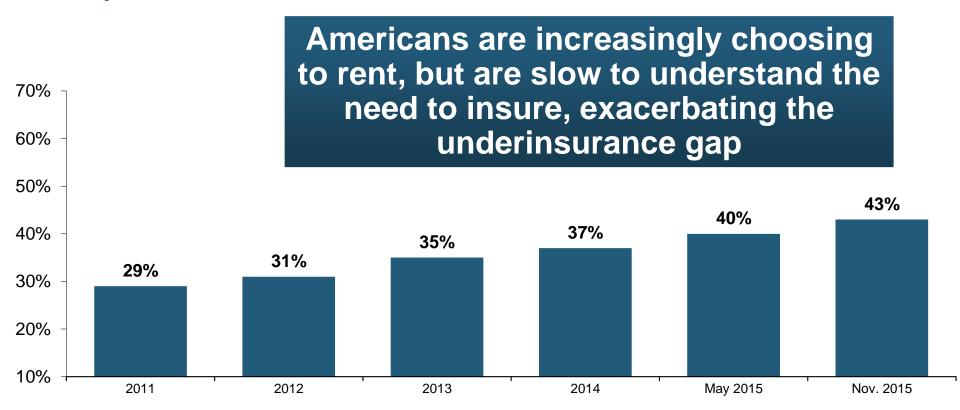
Since the Great Recession ended in June 2009, renters occupied 5.7 million more units (+15.6%).

Sources: US Census Bureau, Residential Vacancies & Home Ownership in the First Quarter of 2015 (released April 28, 2015) and earlier issues; Insurance Information Institute. Next Census Bureau report to be released on July 28, 2015. \*As of Q1.

#### I.I.I. Poll: Renter's Insurance



#### Q. Do you have renters insurance? 1



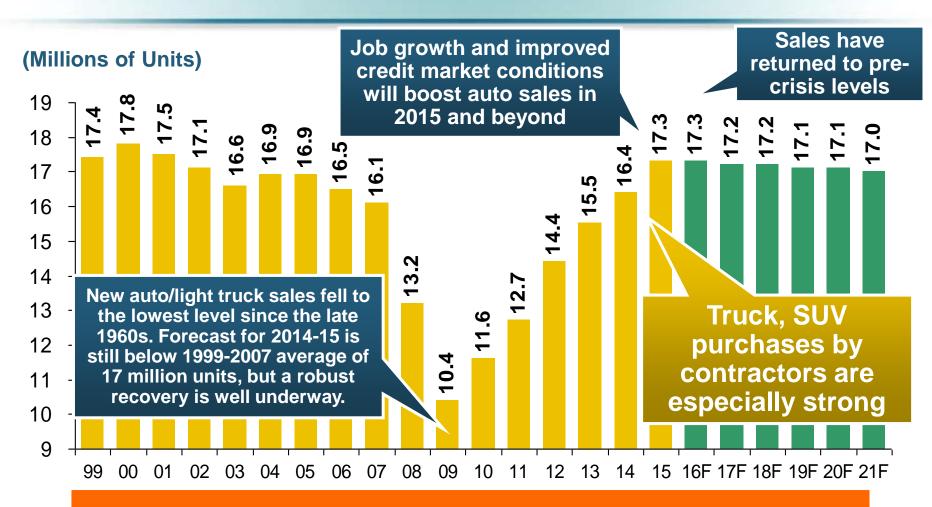
The Percentage of Renters Who Have Renters Insurance Has Been Rising Since 2011.

Source: Insurance Information Institute Annual *Pulse* Survey.

<sup>&</sup>lt;sup>1</sup>Asked of those who rent their home.

#### Auto/Light Truck Sales, 1999-2021F

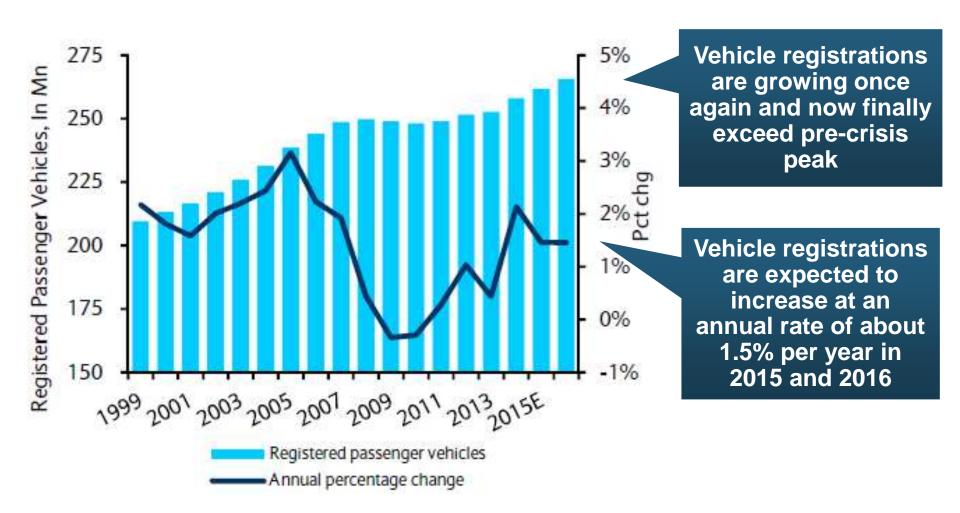




Yearly car/light truck sales will likely continue at current levels, in part replacing cars that were held onto in 2008-12. PP Auto premium might grow by 3.5% - 5%.

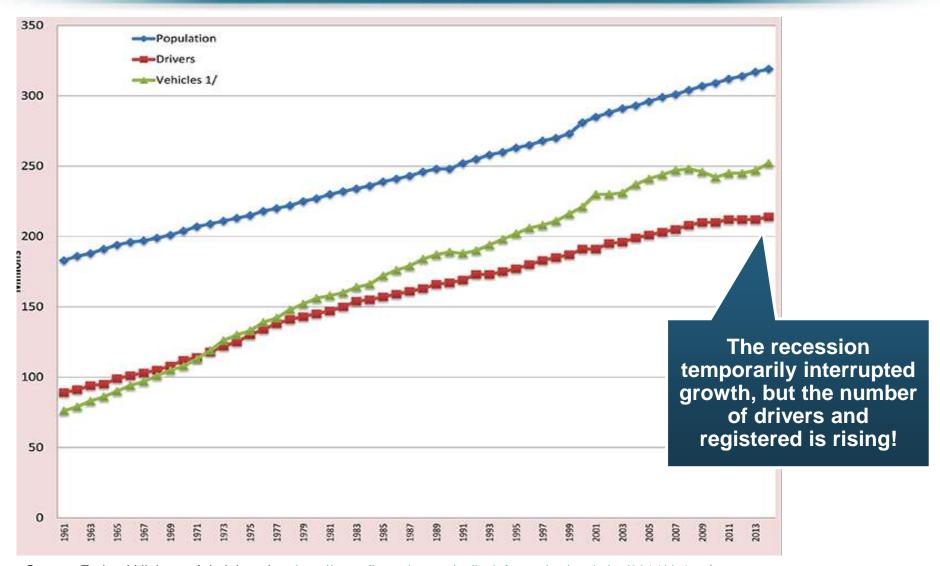
### Number of Registered Passenger Vehicles in US, 1999 – 2015E





### Licensed Drivers, Vehicle Registrations and Resident Population: All UP!

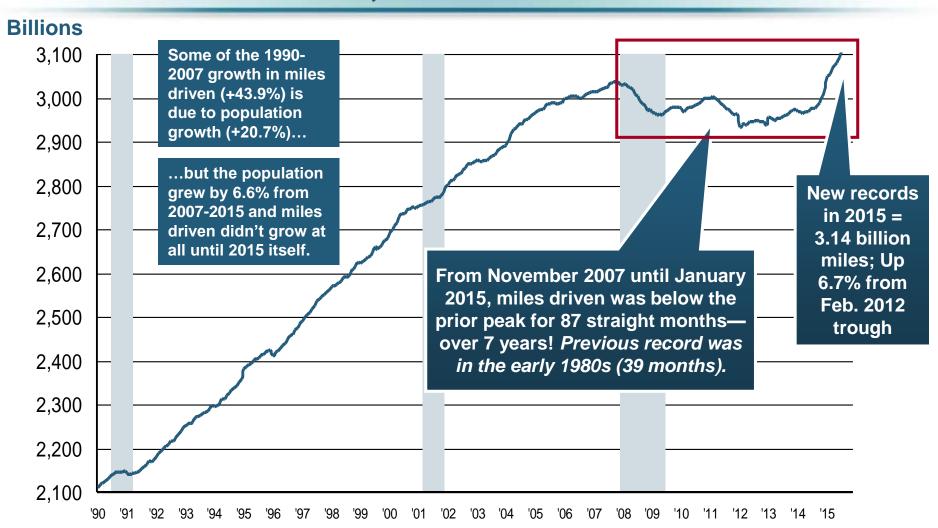




Source: Federal Highway Administration: <a href="http://www.fhwa.dot.gov/policyinformation/statistics/2014/dv1c.cfm">http://www.fhwa.dot.gov/policyinformation/statistics/2014/dv1c.cfm</a> accessed 2/1/16; Insurance Information Institute.

### America is Driving More Again (Finally!): Total Miles Driven\*, 1990–2015\*





<sup>\*</sup>Moving 12-month total. The 2015 data are through November 2015, the latest available. Note: Recessions indicated by gray shaded columns.

Sources: Federal Highway Administration (<a href="http://www.fhwa.dot.gov/policyinformation/travel\_monitoring/tvt.cfm">http://www.fhwa.dot.gov/policyinformation/travel\_monitoring/tvt.cfm</a>); National Bureau of Economic Research (recession dates); Insurance Information Institute.

#### Change in Proportion of Persons with Driver Licenses in the US, by Age, 1983-2014



Age	Change from 1983 to 2014	Change from 2008 to 2014	Change from 2011 to 2014
16	-47.0%	-21.2%	-10.9%
17	-34.8%	-10.2%	-0.2%
18	-25.2%	-8.1%	-0.3%
19	-21.0%	-8.6%	-0.4%
20-24	-16.4%	-6.5%	-3.8%
25-29	-11.0%	-1.4%	-2.7%
30-34	-10.3%	-4.4%	-2.8%
35-39	-7.4%	-4.1%	-2.5%
40-44	-3.4%	-3.0%	-2.7%
45-49	-2.2%	-2.7%	-1.5%
50-54	-0.2%	-3.2%	-1.1%
55-59	+4.1%	-3.3%	-1.5%
60-64	+9.9%	-4.0%	-0.6%
65-69	+15.4%	-2.8%	-1.7%
≥70	+43.6%	+0.8%	-0.3%

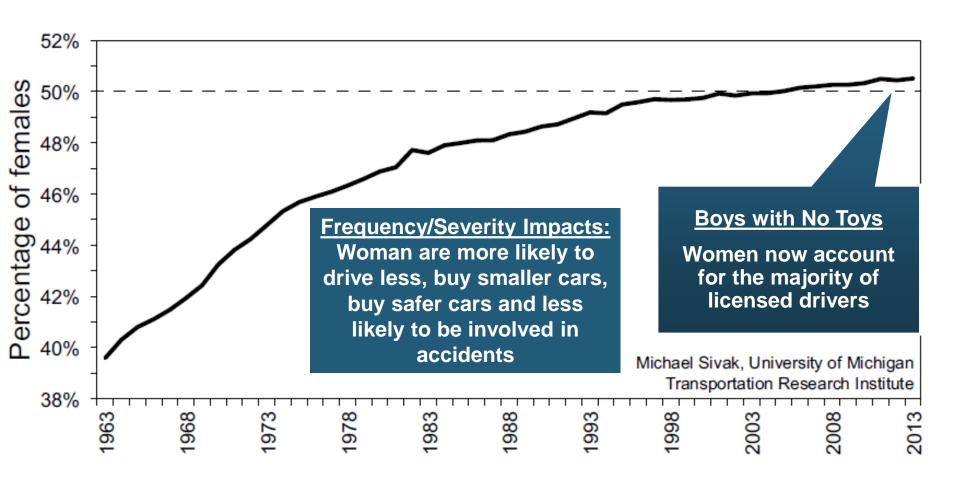
Smaller proportions of younger drivers have licenses but not because they're all taking Uber.

The AARP crowd can't be pried away from the cars

Source: University of Michigan Transportation Research Institute, "Recent Decreases in the Proportion of Persons with a Driver's License Across All Age Groups," M. Sivak and B. Schoettle., Jan. 2016; Insurance Information Institute.

#### Girl Power: Females with a Driver's License as a % of All Licensed Drivers

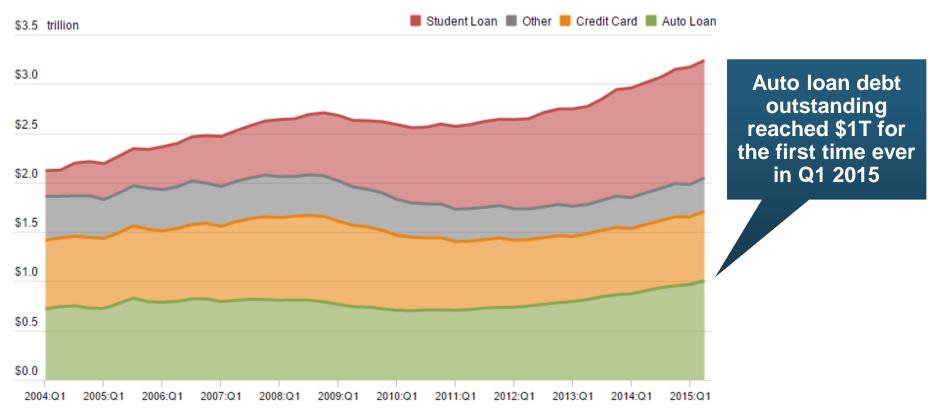




# Auto Loans and Other Non-Housing Debt, 2004 – 2015\*



#### Non-Housing Debt Balance



Banks are becoming increasingly aggressive in marketing auto loans

\*As of Q1 2015.

Source: Federal Reserve Bank of NY Consumer Credit Panel/Equifax; I. I.I.



## INDUSTRY DISRUPTORS

Technology, Society and the Economy Are All Changing at a Rapid Pace Thoughts on the Future

# Media is Obsessed with Driverless Vehicles: Often Predicting the Demise of Auto Insurance



### Hands-Free

Projected global unit sales of autonomous vehicles over the next 20 years

32m

Partially autonomous 24m Fully autonomous Autonomous vehicles will challenge auto insurers, but they won't 16m obliterate them 8m 2035 DATA: BOSTON CONSULTING GROUP: GRAPHIC BY BLOOMBERG BUSINESSWEEK

By 2035, it is estimated that 25% of new vehicle sales could be fully autonomous models

#### **Questions**

- Are auto insurers monitoring these trends?
- How are they reacting?
- Will Google take over the industry?
- Will the number of auto insurers shrink?
- How will liability shift?

Source: Boston Consulting Group.

# On-Demand/Sharing/Peer-to-Peer Economy Impacts Many Lines of Insurance Insurance

- The "On-Demand" Economy is or will impact many segments of the economy important to P/C insurers
  - Auto (personal and commercial)
  - Homeowners/Renters
  - Many Liability Coverages
  - Professional Liability
  - Workers Comp
- Many unanswered insurance questions
- Insurance solutions are increasingly available to fill the many insurance gaps that arise



# TNC Ridesharing Arrangements: Insurance Applicability



Phase	TNC Coverage
Driver logged into TNC App but not "matched" with a passenger	Contingent liability coverage IF personal auto coverage declined/not available (\$50/100/25)*
A "match" is made but passenger is not in the driver's car	Primary liability, UM/UIM coverage at a higher limit (\$1M)*  Contingent comp/collision coverage
3. A passenger is in the driver's car	Same as Phase 2

The concern was that TNCs were seeking to offload risk on to personal auto insurers. An increasing number of personal auto insurers have developed solutions to ensure that coverage gaps are minimized

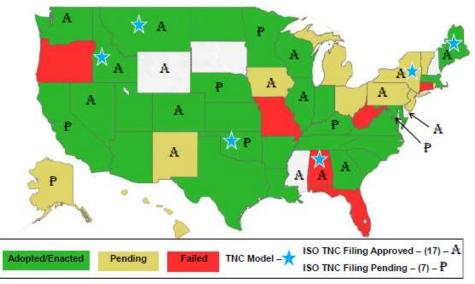
# Ridesharing Regulation/Legislation and Status of ISO Filings as of 9/30/15



#### Status Ride Sharing Legislation/Regulation



#### **Status of ISO Filings**



# Homesharing Arrangements: Potential <u>Host</u> Exposure Concerns (Receives Rental Income)



### Property

- Loss to host's property/furnishings
- Loss of use

### Liability

- Damage to property of traveler, traveler's guests
- Damage to landlord's property/furnishings
- Bodily injury to traveler, traveler's guests

#### Comment

- A landlord may act as a host (vacant unit)
- A Homeowners Policy may be issued to the owneroccupant(s) of a 1, 2, 3 or 4 family dwelling

## Homesharing Arrangements: Potential Traveler Exposure Concerns



### Property

Loss to traveler's property

### Liability

- Damage to property/furnishings of host and landlord
- Bodily injury to traveler's guests, other tenants and visitors to building
- Personal injury due to poor reviews

#### Comment

 Similar exposures currently exist for travelers at hotels, B & B's, guest houses

## Homesharing: ISO's Proposed Changes\*



### Policyholder Notice

Guidance for policyholder to contact insurer

#### Exclusion

- Explicit exclusion for loss/damage/injury arising out of homesharing
- Applicable to host, landlord
- To the extent possible, preserve existing coverage for rentals that do not originate from homesharing, such as that providing for roomers, boarders

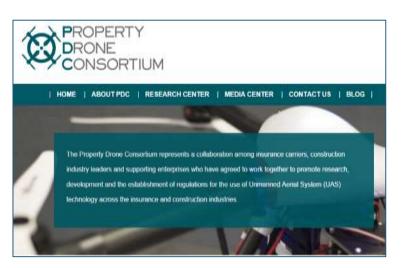
### Coverage option

- Property and liability coverage for loss/damage/injury arising out of homesharing
- Applicable to host, landlord

# Send in the Drones: Potential Rapid Adoption in Industry; Media Loves It





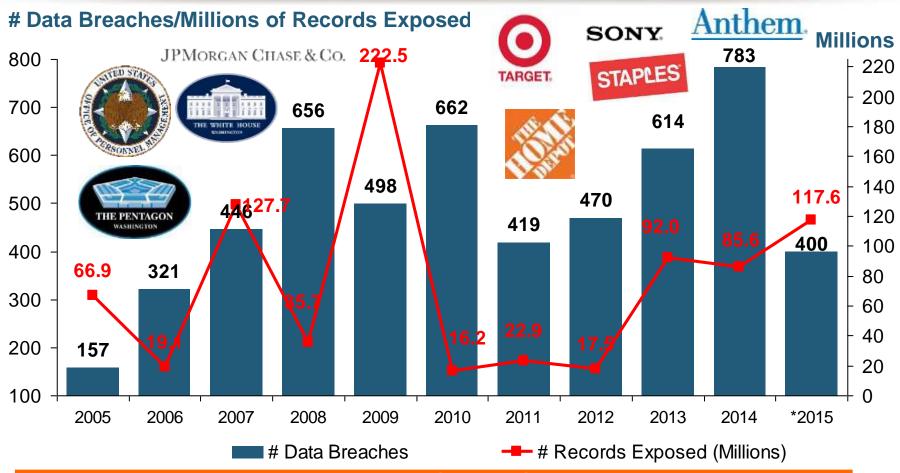


- Drones or Unmanned Aerial Vehicle (UAV) technology is seeing rapid adoption rate in many industries, including insurance
- ~700,000 drones in US by year-end
- FAA granting Section 333 exemptions for commercial use and testing of UAS
- FAA will require most drones to be registered by year-end 2015.
- At least 5 insurers have received permission to test
- Wide variety of applications: claims, preevent property inspections...
- Insurers partnering with construction industry to guide R&D and regulation of UAV use via Property Drone Consortium:

www.propertydrone.org

# Data Breaches 2005-2015, by Number of Breaches and Records Exposed



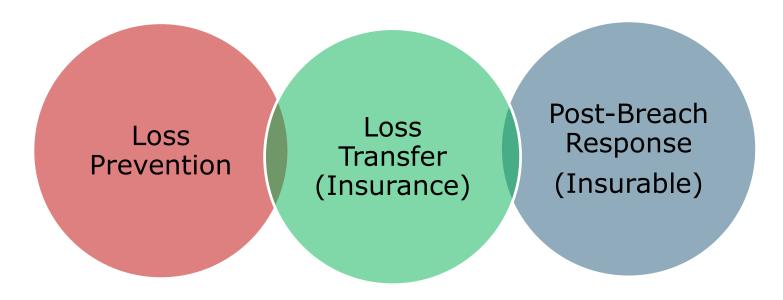


The total number of data breaches (+27.5%) hit a record high of 783 in 2014, exposing 85.6 million records. Through June 30, this year has seen 117.6 million records exposed in 400 breaches.\*

<sup>\*</sup>Figures as of June 30, 2015, from the Identity Theft Resource Center, http://www.idtheftcenter.org/images/breach/ITRCBreachReport2015.pdf

# The Three Basic Elements of Cyber Coverage: Prevention, Transfer, Response





Cyber risk management today involves three essential components, each designed to reduce, mitigate or avoid loss. An increasing number of cyber risk products offered by insurers today provide all three.



# AUTO TECHNOLOGY & THE FUTURE OF AUTO INSURANCE

Technology Promises Safer Cars and Highways, *BUT* Some Analysts, Media and Many in Silicon Valley Are Predicting Doom for Auto Insurers



### THE 'INTERNET OF THINGS'

# Capturing Economic Value Amid a Shifting Insurer Value Chain

## The Internet of Things and the **Insurance Industry**



The "Internet of

create trillions in

economic value

throughout the

opportunities,

challenges will

this create for

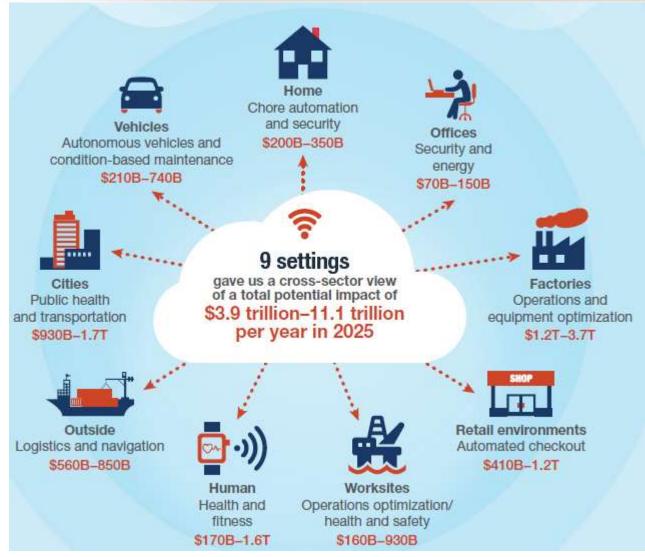
insurers?

global economy

Things" will

by 2025

What



June 2015: Insurance Information Institute.

- What are the impact on the insurance
- industry "value chain"? Sources: McKinsey Global Institute, The Internet of Things: Mapping the Value Beyond the Hype,

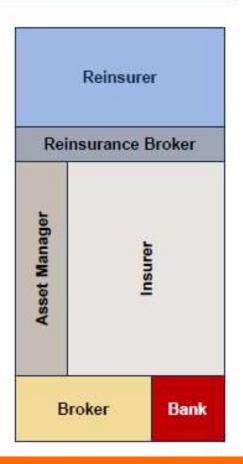
# The Internet of Things and the Insurance Industry Value Chain

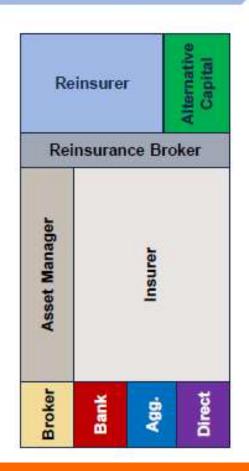


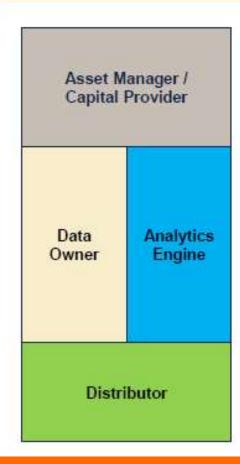
Historical value chain

Today's value chain

The Future?



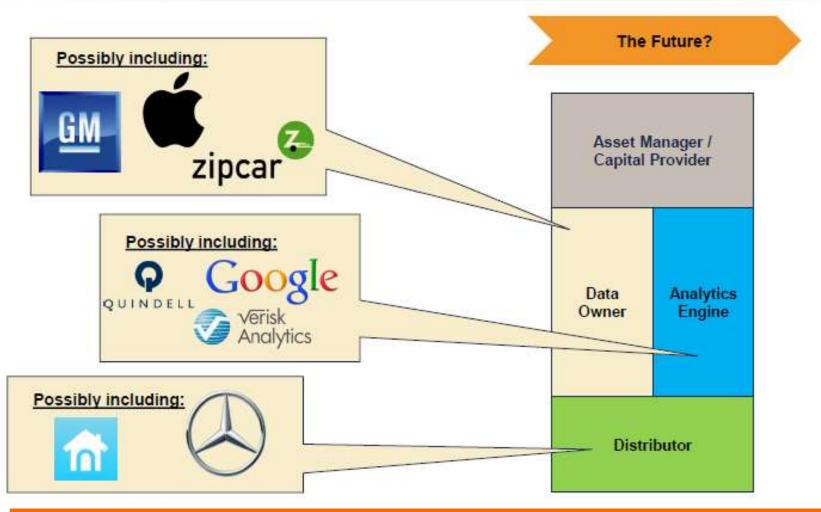




The Insurance Industry Value Chain Is Changing for Many Reasons

# The Internet of Things and the Insurance Industry Value Chain





Who owns the data? Where does It flow? Who does the analytics? Who is the capital provider?



## A NEST Case Study

Nest: A Leader in the "Internet of Things"

Collision Course or Cooperation with the Insurance Industry?



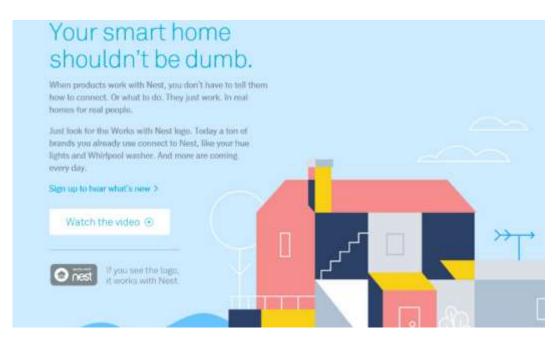
## **Telematics for Your Home:** The Internet of Things



- The home is the next frontier for telematics
- Rapidly becoming a crowded space
- How and with whom will insurers partner?
- Can control increasing array of household systems remotely
  - Heat, A/C
  - Fire, CO detection
  - Security Systems
  - Cameras/Monitors
  - Appliances
  - Lighting
- **Technology is adaptive**







# Partnerships with Insurers: Selling Safety and Savings Simultaneously



# Stay safe. Save money.

Your insurance company knows Nest Protect helps keep you safe. They know it saves lives.

So we've partnered with leading insurance companies to help you get a Nest Protect at no cost. Your insurance provider could also lower your premiums up to 5% because Nest Protect is special - it can connect to Wi-Fi and tell them it's working.

It's their business to know what keeps families safe. And they believe in Nest Protect.

Find out when a Nest insurance partner is coming to your area



Nest is actively seeking to partner with insurers. As of Jan. 10, 2016, Nest listed 2 insurance partners offering discounts in a number of states

Source: <a href="https://nest.com/insurance-partners/">https://nest.com/insurance-partners/</a> accessed 1/10/16; Insurance Information Institute research.



# Recent Attacks on the Insurance Industry

# Why Are Critics Suddenly More Aggressive?

# What's Driving Attacks on the Insurance Industry?



- Recent Surge in Attacks is Associated with Income Inequality Debate in the United States
  - Attacks not confined to auto insurance (e.g., Workers Comp, Health)
  - Not confined to insurance (banks, lending in general, student loans)
- Politics, Economics, Regulation & Demographics Are Principal Drivers
  - CFA/CR and others (ProPublica) emboldened in current environment
  - Dodd-Frank Act stuffed with income inequality mandates and studies
  - FIO now studying auto insurance affordability; Wants to create index.
  - Definition of "fairness" is shifting
- CFA Has Been Able to Attack Certain Rating Factors Based on New Perception of Fairness (which is independent of actual risk)
  - Education Occupation Marital Status Gender
  - Age Credit Profile Location "Price Optimization"
- All of These Are Vulnerable to Attack in the Current Environment
- Infinite Number of Quotes Online → CFA Uses to Highlight Perceived Inequities

## **Handout for Government Affairs Staff Attending NAIC Meeting**





#### The Truth about Auto Insurance? Driving records alone offer an incomplete picture

Rating factors used by auto insurers to price policies have come under attack in recent months. Consumer Reports (CR) and the

Consumer Federation of America (CFA) have made headlines by purporting to demonstrate U.S. auto insurers use certain rating factors unfairly, including a driver's credit-based insurance score, gender and marital status. They have also criticized the practice of "price optimization," a term defined

by the Casualty Actuarial Society (CAS) as "the supplementation of traditional actuarial loss cost models to include quantitative customer demand models for use in determining customer prices."

The CR and CFA analyses were misleading and overlooked the ways in which competition in auto insurance markets is enhanced and consumers benefit when a wide variety of rating factors beyond a person's driving record are used to determine risk

#### Key factors include:



#### Credit

- Regulators in 47 U.S. states allow the use of creditbased insurance scores.
- "Credit scores are effective predictors of risk under automobile policies." (2007 Federal Trade Commission
- 76 percent of consumers exhibit good or fair credit management behavior

#### Gender

- Women drivers tend to get into fewer and less serious accidents than men.
- Men were behind the wheel in nearly three of every four total crashes nationwide (2003-2012).

Moritot Status Married drivers tend to get Into fewer and less serious accidents than unmarried drivers, based on the claims experience U.S. auto insurers have complied over a period of decodes.

- Price Optimization allows insurers to rely on "more objective, quantitative information." about the judgmental aspects of the rate-setting process instead of reliance primarily on anecdotal evidence."
- ▶ Consumers benefit because, "Price optimization may improve rate stability and lower. an insurer's long-term cost for providing coverage and limit policyholder disruption. If consumers realize more stability through price optimization, policyholder discounts for longevity may increase over time.\*

(Maticala) Association of Insurance Commissioners' Casualty Actuanos and Statebasi Task Force draft. White popert.

#### Resources

Consumers who believe

or underserved by their

insurance company can-

and should-shop around

for a better deal. The U.S.

precisely because different insurers give different

auto insurance industry

is highly competitive,

weights to a variety of

underwriting criteria.

they are being overcharged

#### I.I.I. consumer education articles

- · What Determines the Price of My Auto Insurance Policy? www.li.org/article/what-determines-price-my-auto-insurance-
- How Can I Save Money on Auto Insurance? www.iii.org/article/how-can-i-save-money-auto-insurance

#### I.I.I. presentations and research

- · Price Optimization in Auto Insurance Markets: Actuarial, Economic. and Regulatory Considerations: www.ii.org/presentation/price-optimization-in-auto-Insurance-markets-actuarial-economic-and-regulatoryconsiderations-071715
- Facts & Statistics: Auto Insurance: www.ll.org/fact-statistic/auto-insurance
- Issues Update: Credit Scoring and Insurance: www.ll.org/issue-update/credit-scoring

The I's on Insurance—Auto Coverage: You're in the Driver's Seat: www.)ii.org/video/the-is-on-insurance-auto-coverage-youre-in-thedrivers-seat

#### LLL subject matter experts

- . Dr. Robert Hartwig, president & economist: bobh@iii.org
- · James Lynch, FCAS MAAA, chief actuary and director of Information Services: james@ill.org

#### I.I.I. medio contact

Michael Barru, vice president, Media Relations: michaelb@iii.org

For more information about insurance: www.lil.org



## PRICE OPTIMIZATION

Price Optimization Was the Sharpest Area of Attack the Industry Faced in 2015

## **Price Optimization: What Is It?**





320% Price Difference! Does It Cost \$18.25 to Unpack the Bottles and Keep Them Cold?

## **Price Optimization: What Is It?**



- Who Knows?
  - No One Has Successfully Defined It
  - At Least Seven Definitions From States, Vendors, NAIC, Others
  - Some Have Talked About
    - Price Elasticity of Demand
    - 'Loyalty Penalty'
  - Use of 'Sophisticated Tools and Models to Quantify Other Business Considerations' (profitability/retention) (NAIC/I.I.I.)

# Price Optimization: What Is The Objection?



- What Is the Objection? Detractors Say . . . .
  - 'Systematic Component to Rate Setting Unrelated to Expected Losses or Expenses' (It's a Rating Variable, and It's Not Based on Likelihood of Loss, So It's Illegal.)
  - 'Price Gouging'
    - Poor Get Overcharged
    - Most Loyal Customers Get Mistreated



# FOUR FACTS ABOUT PRICE OPTIMIZATION

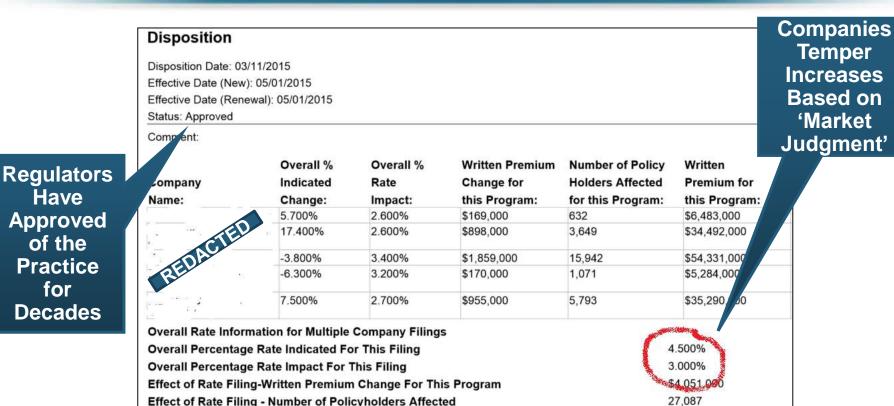
## 1. Insurers Have Always 'Optimized' – With Regulator Knowledge & Approval

Have

of the

for





Sources: System for Electronic Rate and Form Filing (SERFF) via SNL Financial; Insurance Information Institute.

Other Examples: Rate Capping, Teen Drivers

## 2. Optimization Is Not Price Gouging

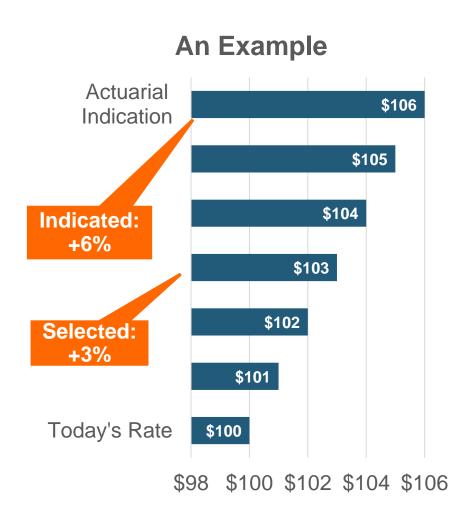


### Traditional Practice

 Used 'Seat-of-the-Pants' Judgment to Discount Off Indication

### What's New

- Software Informs the Judgment
- Never Exceeds Actuarial Indication

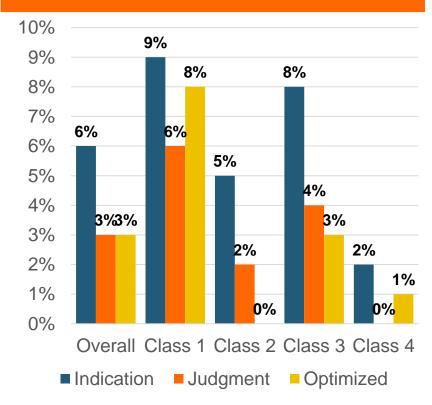


# 3. Optimization Doesn't Raise Rates; It Distributes the Rate Change



- As Practiced in U.S.
  - Remains True to Cost-Based Price
  - Applied to Classes,
     Not Individuals
- Rates Don't Exceed Actuarial Indication

Example (cont'd): There Are Many Reasonable Ways to Achieve Reasonable Rates.



### The Latest



### NAIC Task Force Concluded (November)

Force believes the following practices, at a minimum, are inconsistent with statutory requirements that "rates shall not be ... unfairly discriminatory:"

- a. Price elasticity of demand.
- b. Propensity to shop for insurance.
- c. Retention adjustment at an individual level.
- d. A policyholder's propensity to ask questions or file complaints.

Focus Appears
to Be On
Potential Use of
Tool on
Individuals

- Restrictions/bans in 16+ States, D.C.
- Illinois Declined to Issue Regulation

'Illinois has a highly competitive auto and homeowners' insurance market ... I would be delighted to host any members of ... consumer organizations to visit with me, in person, to share the data they cite as it is inconsistent with what I have reviewed.'

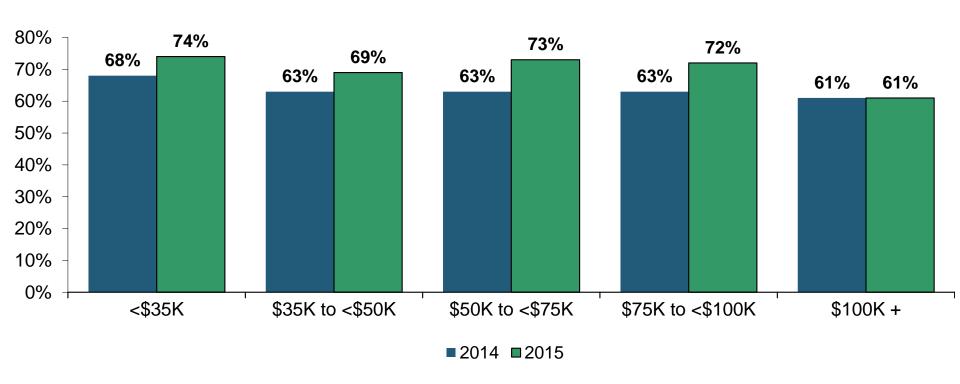
- Acting Insurance Director Anne Melissa Dowling

January 2016

# 4. Low Income Drivers Are Just as Likely to Shop As Anyone Else



Percent of Those With Auto Insurance Who Said They Compared Prices on Renewal, by Income, 2014-2015



Low- to Moderate-Income Respondents Were More Likely to Say They Compare Prices.

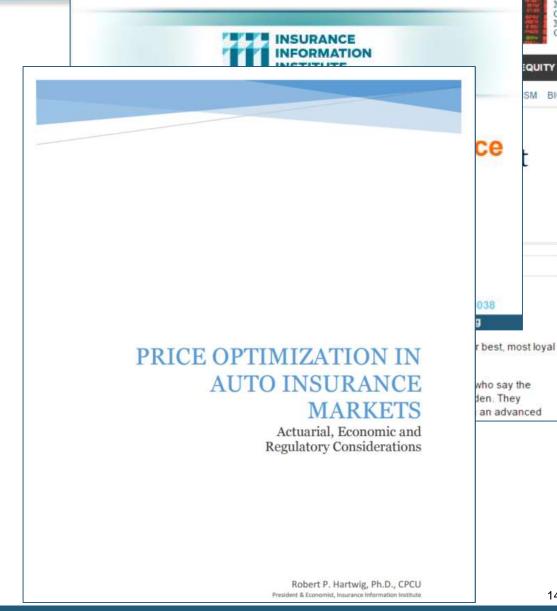
### What Has I.I.I. Done?

THE WALL STREET JOURNAL. ≡ **MARKETS & FINANCE** 

- Media
- Industry
- Policymakers
- The Message:
  - 'the optimal way ... is not through prohibitions but through observation, learning and studying the impacts on insurance markets and consumers and only then making recommendations as necessary.'

- Robert Hartwig,

NCOIL, July 17, 2015



Mo Ch Ma Glo

QUITY



### **Insurance Information Institute Online:**

# www.iii.org

Thank you for your time and your attention!

Twitter: twitter.com/bob\_Hartwig