

Claims, Concerns and Kool Aid: Personal Lines Insurance in 2017 & Beyond

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P/C Financial Overview

- Profitability & Growth Environment
- Personal Lines Performance

Claim Trends

- Adverse Auto Claim Trends
- Causes, Concerns and Consequences
- Catastrophe Claim Trends in Homeowners Insurance

Disruptors, Technology & the Insurance Industry Value Chain

P/C Industry Net Income After Taxes 1991–2016:Q2

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•ROE figures are GAAP; ¹Return 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 – 2016:H1

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mortgage and financial guaranty insurers.

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

ROE: Property/Casualty Insurance by Major Event, 1987–2016:H1



* Through 2016:H1. Excludes Mortgage & Financial Guarantee in 2008 – 2014. Sources: ISO, *Fortune*; Insurance Information Institute.

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P/C Insurance Industry Combined Ratio, 2001–2016:Q2*





* 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 (2014-2015); Figure for 2010-2013 is from A.M. Best P&C Review and Preview, Feb. 16, 2016.

Policyholder Surplus, 2006:Q4–2016:Q2





The industry now has \$1 of surplus for every \$0.76 of NPW, close to 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 2016 in very strong financial condition.

Sources: ISO, A.M .Best.

Net Premium Growth (All P/C Lines): Annual Change, 1971—2016:Q2



Sources: A.M. Best (1971-2013), ISO (2014-16).

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



(1) Includes transactions where a U.S. company was the acquirer and/or the target.

Source: Conning proprietary database.



INVESTMENTS: THE NEW REALITY

Investment Performance is a Key Driver of Profitability

Depressed Yields Will Necessarily Influence Underwriting & Pricing

Property/Casualty Insurance Industry Investment Income: 2000–2016:Q2¹



Due to persistently low interest rates, investment income fell in 2012, 2013 and 2014 but showed a small (1.9%) increase in 2015 another drop in 2016 seems likely.

*Annualized figure based on actual Q2:2016 net investment income earned of \$22.067B.

¹ 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*



*Monthly, constant maturity, nominal rates, through August 2016.

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

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



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

Sources: A.M. Best; 2015E-2016P figures from A.M. Best P/C Review and Preview, Feb. 2016; Insurance Information Institute

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

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

Sources: US Bureau of Labor Statistics; Blue Chip Economic Indicators, 10/16 (forecasts).

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

*Based on 2008 Invested Assets and Earned Premiums

**US domestic reinsurance only

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



THE ECONOMY

The Strength of the Economy Will Greatly Influence Insurer Exposure Base Across Most Lines

US Real GDP Growth*





Demand for Insurance Should Increase in 2016 as GDP Growth Continues at a Steady, Albeit Moderate Pace and Gradually Benefits the Economy Broadly

* Estimates/Forecasts from Blue Chip Economic Indicators.

Source: US Department of Commerce, Blue Economic Indicators 10/16; Insurance Information Institute.

US Unemployment Rate Forecast





= actual; = forecasts

Sources: US Bureau of Labor Statistics; Blue Chip Economic Indicators (10/16 edition); Insurance Information Institute.



Profitability & Politics

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



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



Auto & Home Insurance: State of the Personal Lines Market

Auto Frequency and Severity Are an Immediate Challenge

Dearth of Major CATs (Until Recently), Pricing Discipline Has Helped Home

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

*Latest available.

**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 Homeowners Insurance, 2005-2014 Average: Highest 25 States



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



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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

Sources: A.M. Best (1990-2014); Conning (2015E-17F); Insurance Information Institute.

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

Sources: A.M. Best (1990-2014); Insurance Information Institute (2015E-17F).



Claim Trends in Private Passenger Auto Insurance

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

Auto Insurance Net Combined Ratios, Yearly, 2005-2015



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

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

Return on Net Worth: Personal Auto, 2005–2014





Auto Insurance Profitability Has Been Stuck at Low Levels.

Source: National Association of Insurance Commissioners.

A Half Century of Auto Insurance: Frequency vs. Severity



In the Long Run, Frequency Falls. Severity Increases.



Sources: Insurance Institute for Highway Safety, Insurance Services Office, Insurance Information Institute.

Collision Claims: Frequency Trending Higher in 2015



For a Long Time, Claim Frequency Was Falling, But Since 2010 This Trend Seems to Have Reversed.

Source: ISO, a Verisk Analytics company; Insurance Information Institute.

Collision Claims: Severity Trending Higher in 2009-2015



The Great Recession and High Fuel Prices Helped to Temper Claim Severity, But These forces Have Clearly Reversed, Consistent with Experience from Past Recoveries.

Source: ISO, a Verisk Analytics company; Insurance Information Institute.

Some Comments on Frequency and Severity Trends and Insurance Markets



- Over the long run, falling frequency and rising severity are the norm in auto insurance (personal and commercial)
- The phenomenon of falling frequency and rising severity is not confined to auto lines
- It is almost a "Law of Insurance Physics"
- The same trends have been observed in many lines for decades:
 - Workers Comp
 Aviation
 Marine
 - Fire Life
- Lines of insurance that do not follow this pattern tend to manifest/suffer from certain economic defects:
 - Adverse Selection and Moral Hazard (e.g., Health, Flood, some Coastal Property markets, Social Security Disability)
 - Some of these defects are attributable to subsidies, others to informational asymmetries (less of an issue in auto)
Why Personal Auto Loss Ratios are Rising: Severity & Frequency by Coverage, 2016* vs. 2015 Image: District of the second sec



Frequency and Severity Rose Are Rising Across All Personal Coverage Types in 2016

*Data are for the 4 quarters ending in 2016:Q2. Source: ISO/PCI *Fast Track* data; Insurance Information Institute.

Collision Coverage: Severity & Frequency Trends Are Both Higher in 2016

Annual Change, 2005 through 2016*



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

*Four quarters ending with 2016 Q2. Source: ISO/PCI *Fast Track* data; Insurance Information Institute

Collision Loss Ratio Trending Upward: Private Passenger Auto, 2010 – 2016*

Loss Ratio



Collision Loss Ratios are Trending Steadily Upward

*2016 figure is for the 4 quarters ending in 2016:Q2. Source: ISO/PCI *Fast Track* data; Insurance Information Institute

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

Annual Change, 2005 through 2016*



Cost Pressures Will Increase if BI Frequency and Severity Trends Persist

*2016 figure is for the 4 quarters ending 2016:Q2. Source: ISO/PCI *Fast Track* data; Insurance Information Institute

Property Damage Liability: Severity and Frequency Are Up





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

*2016 figure is for the 4 quarters ending 2016:Q2. Source: ISO/PCI *Fast Track* data; Insurance Information Institute

Comprehensive Coverage: Frequency and Severity Trends Are Volatile



Weather Creates Volatility for Comprehensive Coverage

*2016 figure is for the 4 quarters ending 2016:Q2. Source: ISO/PCI *Fast Track* data; Insurance Information Institute



A Few Factors Driving Adverse Private Passenger Auto Loss Trends

More People Driving, More Miles Driven, Lower Gas Prices, Higher Speed Limits...

America is Driving More Again: 2000-2016

Percent Change, Miles Driven*



Tremendous Growth In Miles Driven. The More People Drive, The More Frequently They Get Into Accidents.

*2000-2015: Moving 12-month total vs. prior year. 2016 data through July 2016, the latest available, vs. July 2015. Sources: <u>Federal Highway Administration</u>; National Bureau of Economic Research (recession dates); Insurance Information Institute.

Why Are People Driving More Miles? Is it Jobs? 2006-2016:Q2



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

Sources: <u>Federal Highway Administration</u>; Seasonally Adjusted Employed from Bureau of Labor Statistics (Series ID CES000000001); Insurance Institute for Highway Safety; Insurance Information Institute.

More Miles Driven → More Collisions, 2006-2016:Q2





The More Miles People Drive, the More Likely They are to Get in an Accident, Helping Drive Claim Frequency Higher.

Sources: <u>Federal Highway Administration</u>; Rolling four-quarter average frequency from ISO, a Verisk Analytics company; Insurance Institute for Highway Safety; Insurance Information Institute.

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





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.

Comparing Gas Prices, Employment on Collision Frequency Through 2015



Gas Price vs. Collision Frequency

Number Employed vs. 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.

Severity: Driving Fatalities are Rising

On Track for 18% Increase in Two Years

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Driving Has Been Getting Safer for Decades, But Recent Trend is Discouraging—38,300 Deaths in 2015.

Sources: National Safety Council, Insurance Information Institute.

What About Distractions?



It's A Problem. But Is It Growing?

What We Do Behind The Wheel

But Impact Is Not Clear



Percentage of Crashes Involving Distraction



* Property Damage Only.

SOURCES: State Farm, National Highway Transportation Safety Administration (distraction.gov)

Change in Auto Fatalities by State: Especially Severe in Georgia





SOURCE: Estimates from National Safety Council.



Personal Lines Growth Drivers

Rate and Exposure are Both Presently Important Growth Drivers

Monthly Change in Auto Insurance Prices, 1991–2016*



'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 '16

*Percentage change from same month in prior year; through Sept. 2016; seasonally adjusted

Note: Recessions indicated by gray shaded columns.

Sources: US Bureau of Labor Statistics; National Bureau of Economic Research (recession dates); Insurance Information Institutes.

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.

* 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.

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



Sources: A.M. Best (1990-2014); Conning (2015-17F); Insurance Information Institute.

Homeowners Insurance Net Written Premium, 2000–2016F





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



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 (9/16 for 2016-17; 3/16 for 2018-21F; Insurance Information Institute.

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%.

Source: U.S. Department of Commerce; Blue Chip Economic Indicators (9/16 for 2016-17; 3/16 for 2018-21F; Insurance Information Institute. 59

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



Sources: Bureau of Transportation Statistics; Barclays Capital estimates, August 2015.

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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



*Through 10/20/16. 2016 figure stated in 2016 dollars. Figure includes \$17 in known loss plus an estimate of \$4.4B for Hurricane Matthew. 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.

Cat No.	Period	States	Storm Family	Estimated Loss \$
1625	Apr 10 - 15	FL, TX	Wind and Thunderstorm Event	2,995,100,000
1621	23-Mar	ТХ	Wind and Thunderstorm Event	1,688,500,000
1628	Apr 29 / May 3	AR, GA, IL, IN, MD, MO, NC, OK, TX, VA, WV	Wind and Thunderstorm Event	1,187,040,000
1644	Aug 11 - 15	LA, MS	Wind and Thunderstorm Event	1,058,870,000
1620	Mar 17 - 18	AL, AR, FL, LA, MS, TX	Wind and Thunderstorm Event	920,105,000

*As of Oct. 20. No official estimate for Hurricane Matthew was yet available from PCS. Source: Property Claim Services division of Verisk Analytics as of Oct. 20, 2015.

Inflation Adjusted U.S. Catastrophe Losses by Cause of Loss, 1996–2015¹



- 1. Catastrophes are defined as events causing direct insured losses to property of \$25 million or more in 2015 dollars.
- 2. Excludes snow.
- 3. 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 3 States for Insured Catastrophe Losses, 1996-2015 (in 2015 Dollars)



Texas, Florida and New York lead the country in insured catastrophe losses over the past 20 years. These 3 states accounted for nearly 1/3 of all insured catastrophe losses over the past two decades

Source: PCS/Verisk for 2016 Insurance Fact Book, Insurance Information Institute.

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

Sources: PCS; Insurance Information Institute inflation adjustments to 2014 dollars using the CPI.

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



*Losses adjusted to inflation based on CPI

Source: Geo Risks Research, NatCatSERVICE

Analysis contains:

severe storm, tornado, hail, flash flood and lightning

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



\$ Billions



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Regional Property Catastrophe ROL Index: 1990 – 2016



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

Source: Guy Carpenter; Insurance Information Institute.

Alternative Capital Potentially Disrupting the Bank Account

(Billions of USD)



Alternative capacity has grown 263% since 2008. It has more than tripled in the past six years.

Source: Aon Benfield Analytics; Insurance Information Institute.



INDUSTRY DISRUPTORS

Technology, Society and the Economy Are All Changing at a Rapid Pace *Reality vs. Drinking the Silicon Valley Kool Aid*

The Sharing Economy Has Grown **And Attracted Political Scrutiny**



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





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.*

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



AUTO TECHNOLOGY & THE FUTURE OF AUTO INSURANCE

The Road to Fully Autonomous Vehicles: Long, Dark and Full of Potholes

Tales of the Death of Auto Insurance Are Greatly Exaggerated

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



Source: Boston Consulting Group.



Source: Autonomous Consulting as cited in the Financial Times: "Cost of Car Insurance to Plunge With Rise of Driverless Vehicles, June 28, 2016.



Q. Would you be willing to ride in a driverless car?



The Percentage Willing to Ride in a Driverless Car Remains at 43%; 71% of People Over 64 Were Unwilling to Ride.

Source: Insurance Information Institute Annual Pulse Survey.

I.I.I. Poll: Driverless Cars



Why Americans Would Not Want to Ride in a Driverless Car, May 2016¹



Safety Concerns Are Paramount Among Those Who Would Avoid Driverless Cars.

¹ Based on those who would not ride in a driverless car. Respondents could give more than one answer. Source: Insurance Information Institute Annual *Pulse* Survey.

I.I.I. Poll: Telematics— Consumers Still Hesitant





Would you allow your auto insurer to collect information about how and when you drive in order to set your auto insurance premium?



More Than Half of Auto Policyholders Would Allow Their Insurer to Collect Their Driving Information in Order to Set Premiums.

¹Asked of those who have auto insurance. Source: Insurance Information Institute Annual *Pulse* Survey.

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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
 - Uses sensors and algorithms to learn about you









THE 'INTERNET OF THINGS'

Capturing Economic Value Amid a Shifting Insurer Value Chain

The Internet of Things and the Insurance Industry

INSURANCE INFORMATION INSTITUTE



Sources: McKinsey Global Institute, *The Internet of Things: Mapping the Value Beyond the Hype*, June 2015; Insurance Information Institute.

The "Internet of Things" will create trillions in economic value throughout the global economy by 2025

What opportunities, challenges will this create for insurers?

What are the impact on the insurance industry "value chain"?

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?

Source: Willis Capital Markets & Advisory; Insurance Information Institute.

The (Re)Insurance Value Chain



Where Could Disruption Lie?

Protecting People & Organizations



Most Links in the Value Chain Have the Potential to Be Disrupted in Next 10 Years.



INSURANCE TECHNOLOGY: FIN TECH ZEROES IN

Number and Value of Deals Is Increasing

In Search of the Elusive Insurance 'Unicorn'

Insurance Technology Financing Trend: Change Is Coming





Source: CB Insights at https://www.cbinsights.com/blog/insurance-tech-overview-q1-2016/; 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?



Pricing Disruptor: The Fragmented Riskin INSURANCE

- The Insurance Contract Is Being Split into Tiny Pieces.
 - By-peril HO insurance Rate Water, Theft Liability Risk Separately
 - The Sharing/"On-Demand" Economy Personal Exposures Become Commercial Exposures, Then Switch Back
 - Pay By Mile Insurance Exposure Basis for Auto – Vehicle-Mile Replaces Vehicle-Year
 - Expect More As
 - Computers Get Stronger
 - Data Storage Gets Cheaper
 - Information Collection Grows





metromile



The Internet of Things



Gathering Big Data Affects

- Underwriting
- Pricing
- Claims
- Monitoring Could Affect
 - Loss Control
 - Pricing?





Swiss Re InsurTech Accelerator

Disrupt the world of Re/Insurance. Come be a part of InsurTech Accelerator

The Insurers Investing in Internet of Things Startups



As For The Future...





IoT Could (Will) Disrupt UW, Claims, Loss Control



Image sources, clockwise: Nest, Jawbone, Automatic, Lumo, Apple, PSFK

Peer-to-Peer (P2P) Insurance



Taking on the *Entire* Value Chain

The Business Model

- Resembles Mutuals/ Reciprocals
- 20% of Premium to Expenses, 80% to Cover Risk.



- Risk Pool for Each Charity
- Leftover Pool Money Goes to Charity.
- May Deter Fraud You Wouldn't Cheat Your Favorite Charity!

Lemonade Chief Behavioral Officer

Dan Ariely: "If you tried to create a system to bring out the worst in humans, it would look a lot like the insurance of today."

Source: "UberX-ing Insurance : Is Peer-to-Peer Insurance Viable?", presentation by Jay Sarzen, Aite Group at Drinker Biddle Insurance Conference, June 21, 2016; Financial Times; <u>www.lemonade.com</u>.

Lemonade's P2P Model



Example: Renters' Insurance (HO-4)



SOURCE: Lemonade.com, Insurance Information Institute.

Lemonade's P2P Model



Questions...



Other Questions

- How Are Charitable Pools Separated?
- Who Gets the Float?
 - Insurer, Reinsurer or Charity?
- Who Gets the Tax Deduction (Worth More Than the Float)?
- The Giveback Occurs on June 20

 4 Equal Payments Over 4
 Years (Active Policies Only)



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Thank you for your time and your attention! Twitter: twitter.com/bob_Hartwig Download at <u>www.iii.org/presentations</u>