

The Property/Casualty Landscape Challenges and Disruptions?

October 6, 2016

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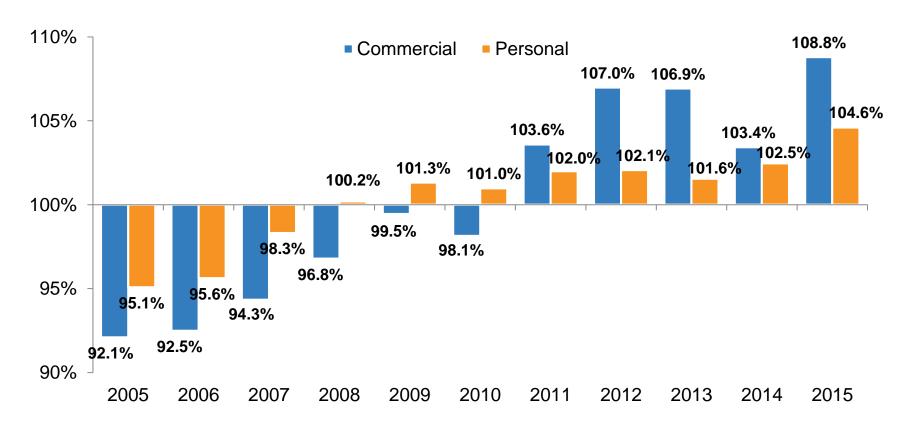
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Auto Insurance

Rising Frequency, Severity Pinching the Largest P/C Line

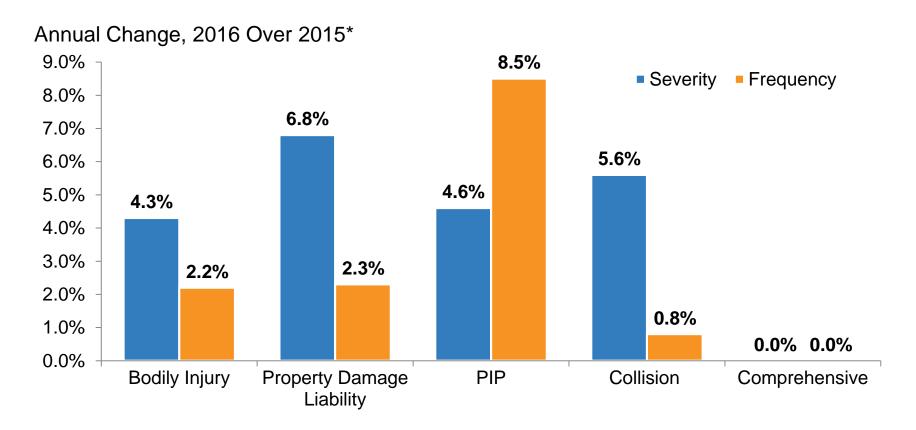
Net Combined Ratio, 2005-2015



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



Why Personal Auto Loss Ratios are Rising: Severity & Frequency by Coverage, 2016 vs. 2015



Across All Personal Coverage Types (Except Comprehensive) in 2015, Frequency and Severity Rose. This Pattern is Continuing in 2016.

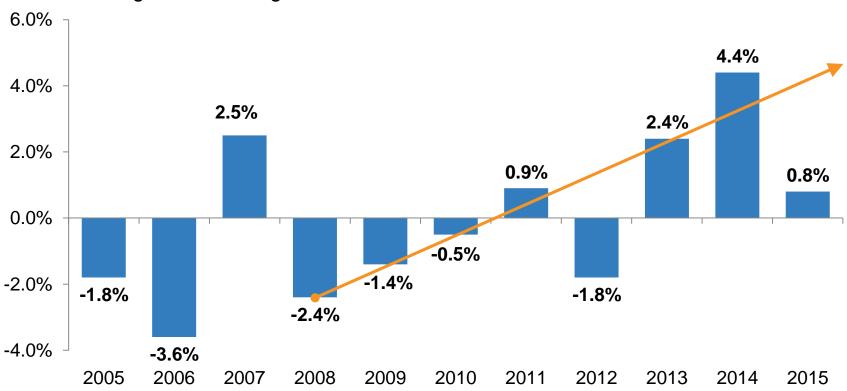


Claim Trends by Coverage

Focus on Collision

Collision Claims: Frequency Trending Higher in 2015

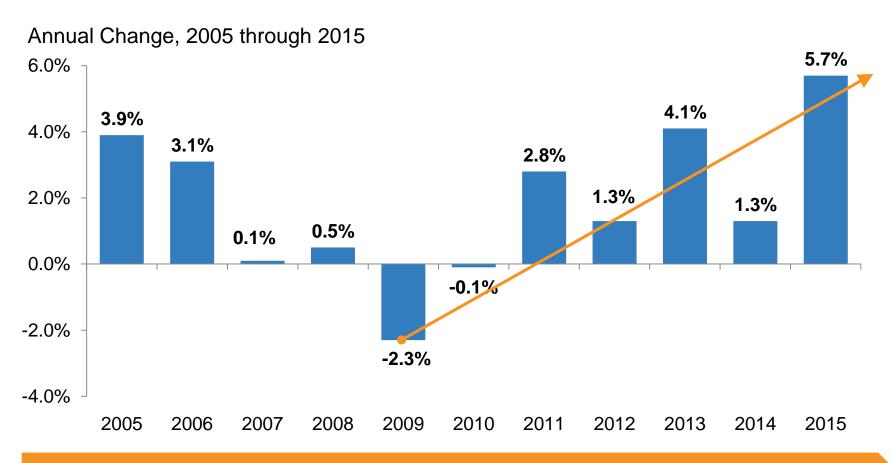
Annual Change, 2005 through 2015



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



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.

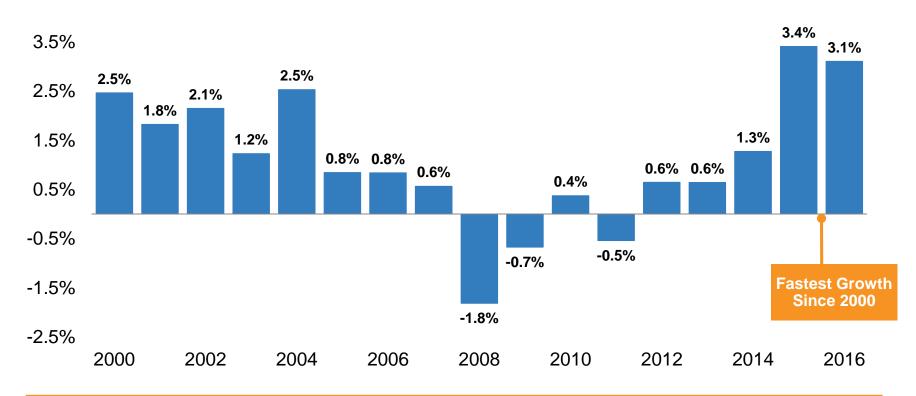


What's Driving These Trends?

Frequency; Severity

America is Driving More Again: 2000-2016

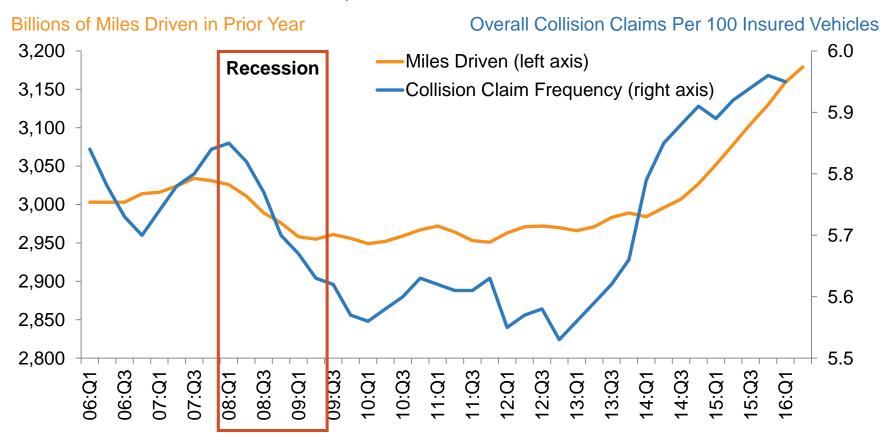
Percent Change, Miles Driven*



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



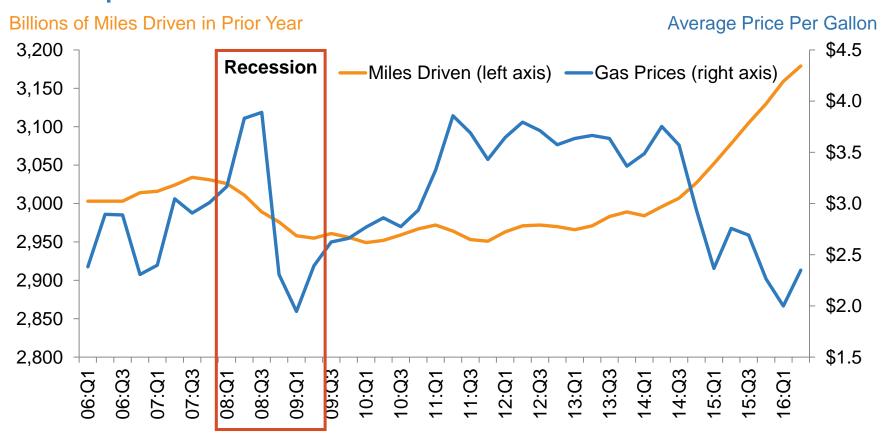
More Miles Driven => More Collisions, 2006-2016



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



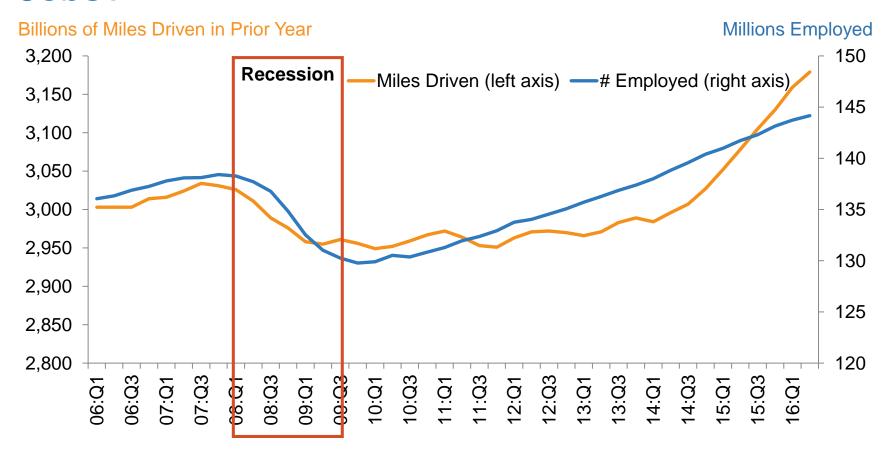
Why Are People Driving More Miles? Cheap Gas?



Gas Prices Don't Seem Correlated With Miles Driven.



Why Are People Driving More Miles? Jobs?

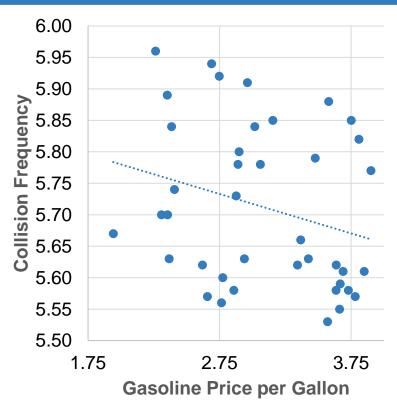


People Drive to and from Work and Drive to Entertainment.
Out of Work, They Curtail Their Movement.

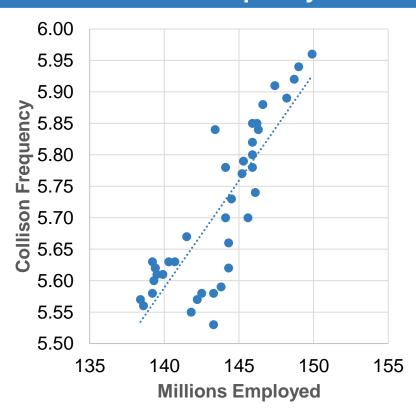


Comparing Gas Prices, Employment on Collision Frequency Through 2015

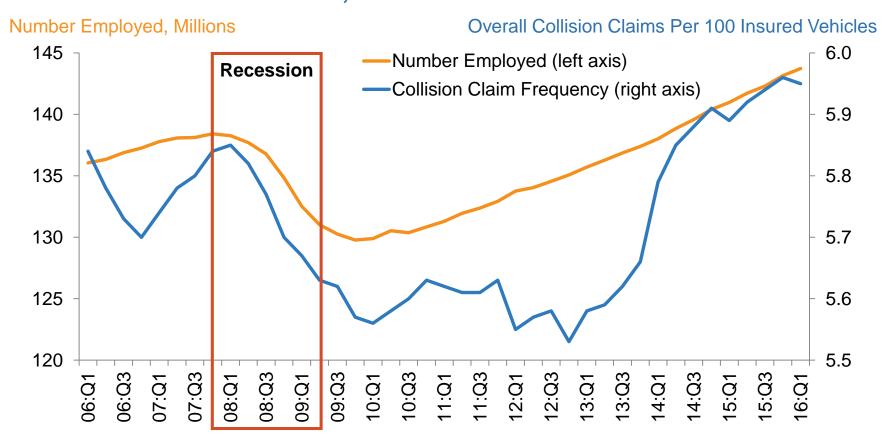
Gas Price vs. Collision Frequency



Number Employed vs. Collision Frequency

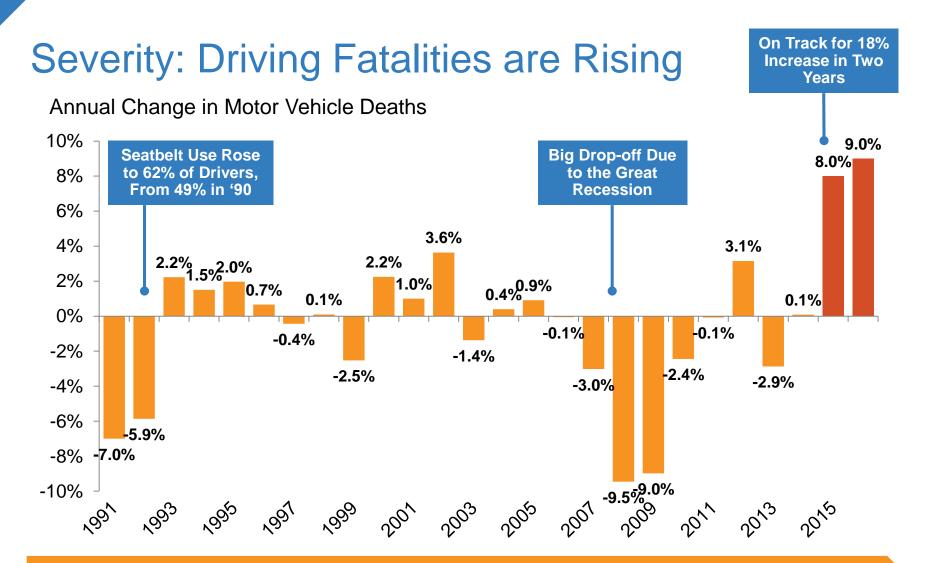


More People Working and Driving => More Collisions, 2006-2016



When People are Out of Work, They Drive Less. When They Get Jobs, They Drive to Work, Helping Drive Claim Frequency Higher.





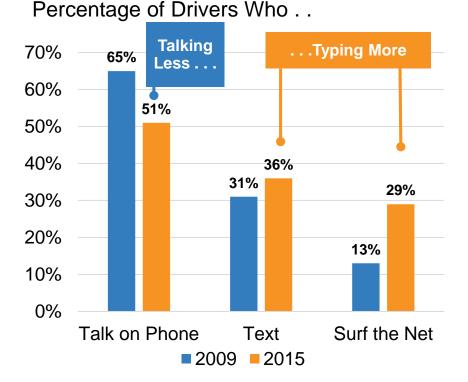
Driving Has Been Getting Safer for Decades, But Recent Trend is Discouraging—38,300 Deaths in 2015.



What About Distractions?

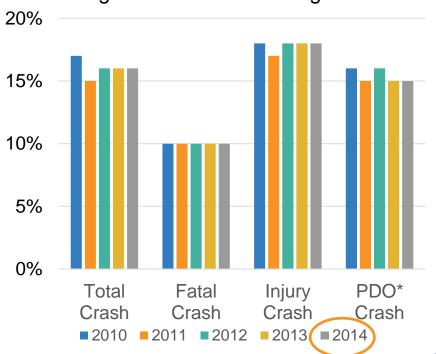
It's A Problem. Is It Growing?

What We Do Behind The Wheel



But Impact Is Not Clear

Percentage of Crashes Involving Distraction



Most Recent Year



* Property Damage Only.

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

On the Horizon

Sharing Economy and Disruption

What Is A Value Chain?

Example: Local Newspapers

Provide Information to Local Audience

Printing Press

Gather Information (News, Ads)

Create
Product
(Publish the
Newspaper)

Distribute Product (Deliver the Newspaper)

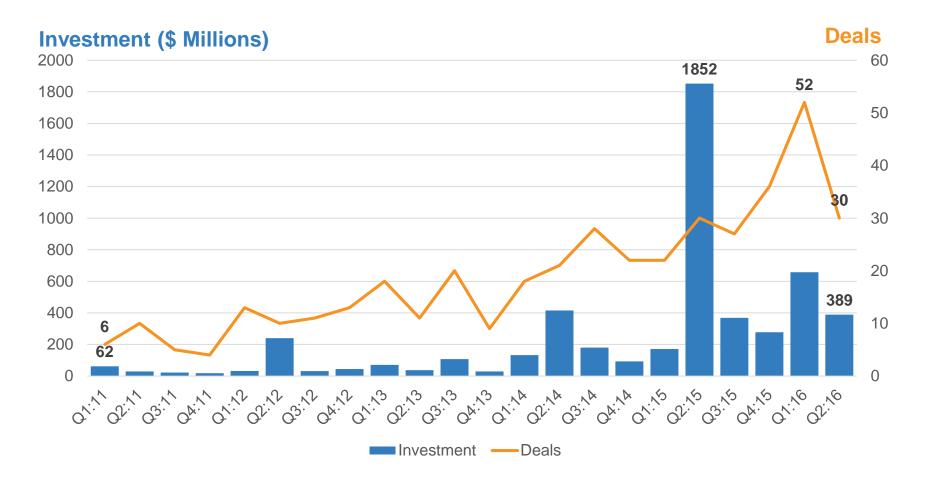
Improve World

This Industry Was Radically Disrupted by the Internet. Its Barriers to Entry Were Destroyed. Is Insurance Next?





Insurance Technology Financing – Change Is Coming



Investment In Insurance Tech Is Rising. Number of Deals Reached A Record in First Quarter.

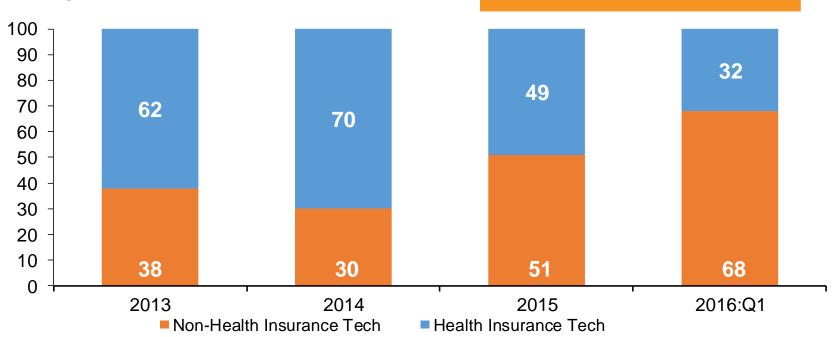


Insurance Tech Activity by Area of Interest,

2013 - 2016:Q1

With the ACA in the rear view window, non-health insurance tech accounts for the majority of investment

(Percent)



Silicon Valley, Venture Capitalists Have Insurance Industry in Their Sights. Most Will Fail. Some Will Succeed.



The (Re)Insurance Value Chain

Where Could Disruption Lie?



Brains + Bank Account

Create Policy/ Treaty Market Policy/ Treaty Underwrite, Price Risk

Perform Loss Control

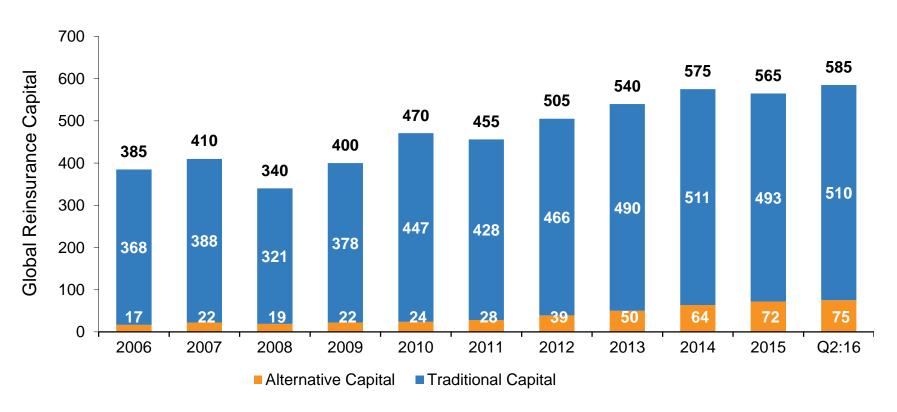
Settle Claims Improve World

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



Alternative Capital Potentially Disrupting the Bank Account

(Billions of USD)

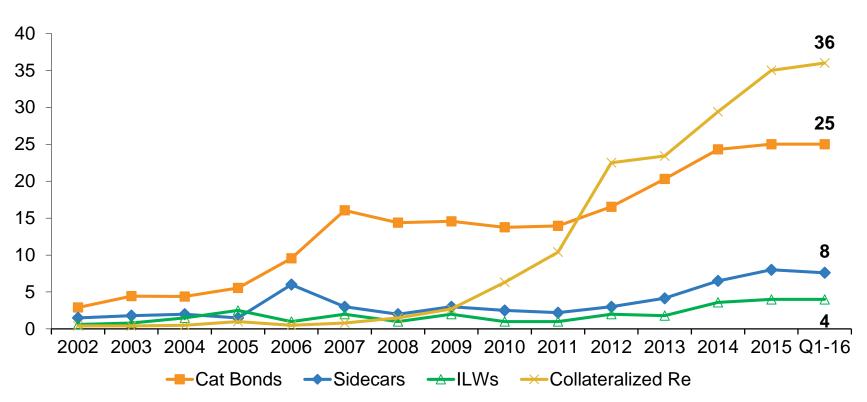


Alternative capacity has grown 263% since 2008. It has more than tripled in the past six years.



Alternative Capital Potentially Disrupting the Bank Account

(Billions of USD)



Collateralized Reinsurance and Catastrophe Bonds Currently Dominate the Alternative Capital Market.



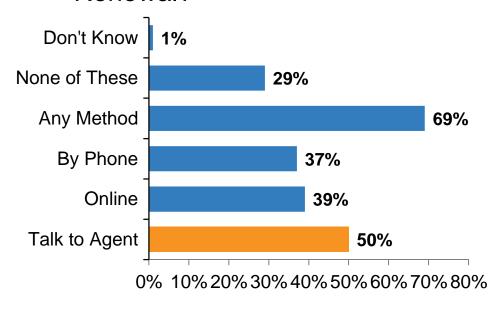
The Internet

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 Risk

- ▲ 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











The Internet of Things

- Gathering Big Data Affects
 - Underwriting
 - Pricing
- Monitoring Could Affect
 - Loss Control
 - Pricing?







The Insurers Investing in Internet of Things Startups



SOURCE: F6S.com, CB Insights.



As For The Future...



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!



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."

Lemonade's P2P Model

Example: Renters' Insurance (HO-4)

Attractive
 Graphics, Simple
 Explanations of a
 Basic ISO Form





HOMEOWNERS HO 00 04 05 11

HOMEOWNERS 4 – CONTENTS BROAD FORM

AGREEMENT

We will provide the insurance described in this policy in return for the premium and compliance with all applicable provisions of this policy.

DEFINITIONS

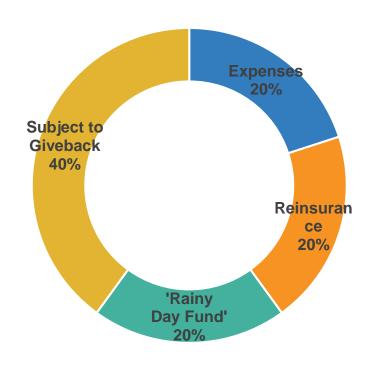
- A. In this policy, "you" and "your" refer to the "named insured" shown in the Declarations and the spouse if a resident of the same household. "We", "us" and "our" refer to the Company providing this insurance.
- "Bodily injury" means bodily harm, sickness or disease, including required care, loss of services and death that results.
- 3. "Business" means:
 - A trade, profession or occupation engaged in on a full-time, part-time or occasional hasis; or
 - b. Any other activity engaged in for money or other compensation, except the following:
 - (1) One or more activities not described in



Lemonade's P2P Model

Questions

Who Holds the Risk?



Other Questions

- How Are Charitable Pools Separated?
- - 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)

Summary

- Auto costs are rising (both frequency and severity)
 - People Are Driving More: Improving employment picture driving frequency higher
 - People Are Driving Faster: Fatalities have risen 16 percent in two years
- Disruption provides opportunities and challenges throughout the value chain





Thank you for your time and your attention!

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