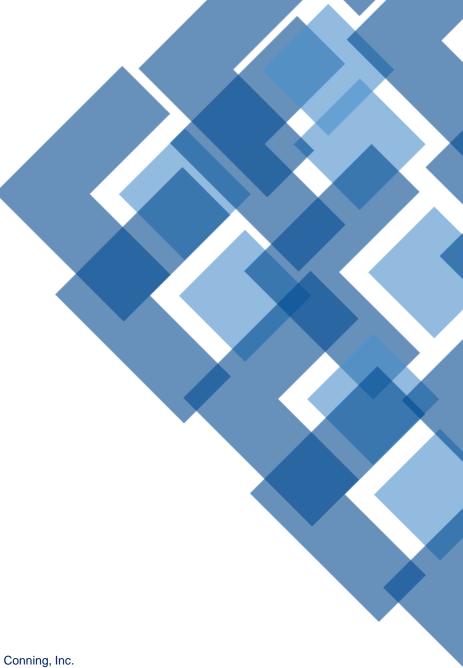


Property-Casualty Insurance— Confronting Cyclical and Structural Changes

Casualty Actuaries of New England (CANE) Fall Meeting

Sturbridge, MA

September 30, 2015



Agenda

About Conning

Cyclical Change

- Economic and Insurance Market Conditions
- Conning Forecast
- Loss Reserves

Structural Pressures

- Demographic Change
- Technology and Economic Trends

Not Your Father's Insurance Industry

- Alternative Capital
- Emerging Risks and New Technologies

Implications

- Focus on Customer
- Going Beyond Risk Transfer to More Value-Added Services

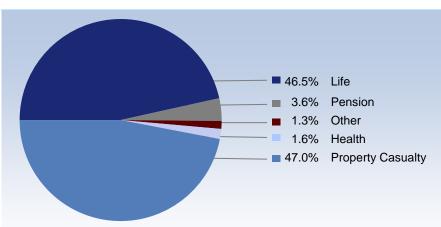


Conning®

Who we are...

- Founded in 1912; insurance specialists for more than 50 years; investing insurance assets for nearly three decades
- Managing \$94.8 billion for 150 clients*
- 296 employees with locations in Hartford, New York, London, Cologne, and Hong Kong*
- Independently owned by Aquiline Capital Partners, Conning employees, and Cathay Financial Holdings
- On November 12, 2014, Cathay Financial Holdings announced that its subsidiary, Cathay Life Insurance Co, Ltd., approved the acquisition of Conning

Assets by Client Type*



Prepared by Conning, Inc. *As of 3/31/2015 Includes Conning, Inc., Conning Asset Management Limited, Cathay Conning Asset Management Limited, Goodwin Capital Advisers, Inc., and Conning Investment Products, Inc.

 Company founded by William S. Conning; provides investment advice to high net worth individuals 	1912
 Began providing insurance stock research and advice to institutional investors 	1950
 Expanded into consulting and strategic industry research for senior insurance executives 	1970
 Formed asset management group to manage investments for insurance companies 	1988
 Acquired insurance asset management business of TCW Group 	1999
 Acquired insurance asset management business of Charter Oak Asset Management 	2000
 Acquired assets of DFA Capital Management, a leading provider of risk modeling software 	2010
 Launched High Dividend Equity strategy (Jan 2011) Established Hong Kong investment center though joint venture with Cathay Financial Holdings 	
Acquired Goodwin Capital Advisors	2011
 Launched European investment center 	2012
 Launched new Liquid Alternatives and Equity MLP offerings 	2013
 Acquired certain assets of Brookfield Investment Management Inc.'s Core Fixed Income Insurance Business 	2014

Conning Insurance Research & Consulting Solutions

Published Research	Consulting	Tools
 Strategic Studies on Key Industry Issues Forecasts of Line of Business and Industry Performance Line of Business Market Assessment Reports 	 Strategy Development and Review Proprietary Analysis & Surveys Business Development Support Rating Agency Support Peer & Competitor Analyses State Level Premium Forecasting 	 Proprietary Models Market Share Analyses Midsized Insurer Analyses Presentations Webinars on Demand

Experienced Research Professionals

Backgrounds: Actuarial, underwriting, equity research, strategic planning, investment banking, insurance operations, consulting



Conning's Online Insurance Research Portal

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Insurance Segment Series 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, Data, Presentations	Insurance Segment Series 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, Data, Presentations	Insurance Segment Series 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, Data, Presentations
Strategic Studies 1995: 1996: 1997: 1998: 1999: 2000: 2001. 2002. 2003. 2004: 2005. 2006: 2007. 2008: 2009: 2010: 2011. 2012: 2013: 2014. 2015. Presentations. Webinars on	Strategic Studies 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015.	Mid-Sized Insurer Analyses 2013, 2014, 2015, Data
Demand	Data. Presentations. Webinars on Demand	Strategic Studies 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, Data, Presentations, Webinars on Demand
Regulatory/Economic/Investment/ERM	Total Insurance Industry	
Accounting & Regulatory Notes 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015	Conning Commentary 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015	
Asset Management 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015	Insurance Trends 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013.	
Economic Outlook 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015	2014. 2015 Presentations	
	2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015	
Enterprise Risk Management 2012, 2013, 2014, 2015	<u>2007. 2009. 2009. 2009. 2009. 2019. 2019. 2019. 2019. 2019</u> . 2019	
	AND AND AND AND AND AND AND AND	

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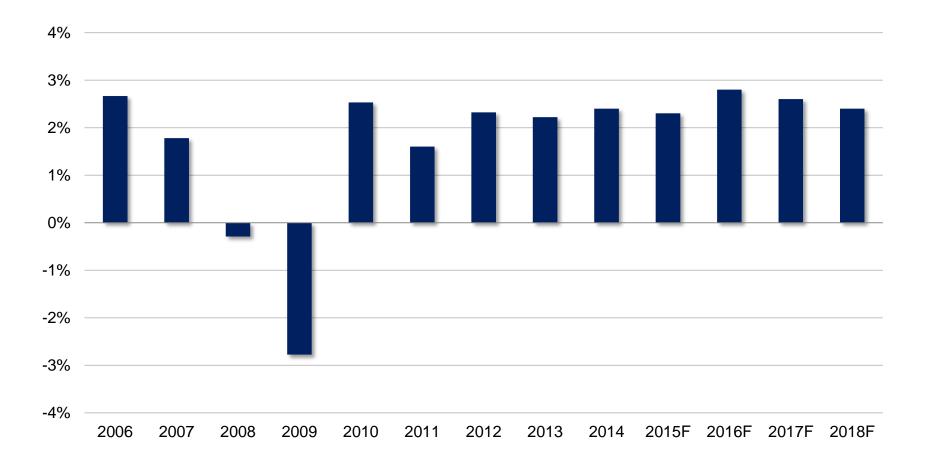


Search Title & Summary V

CYCLICAL CHANGES

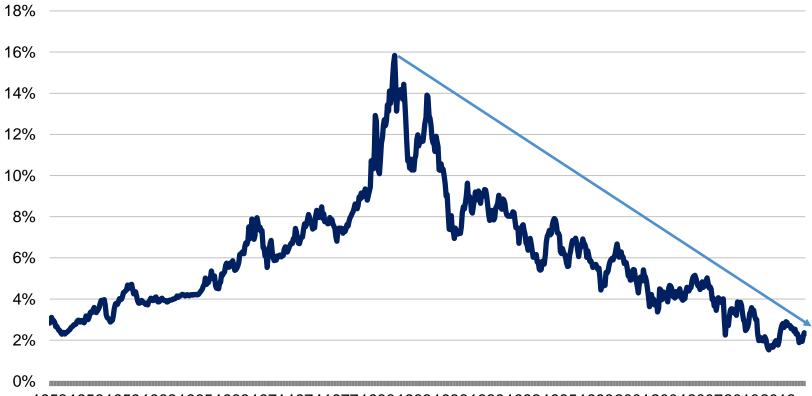


U.S. Real GDP Growth



Prepared by Conning, Inc. Source: Federal Reserve Bank of Philadelphia, Survey of Professional Forecasters (https://www.philadelphiafed.org/research-and-data/real-time-center/survey-of-professional-forecasters) (2006-2015).

U.S. 10-Year Treasury Rates

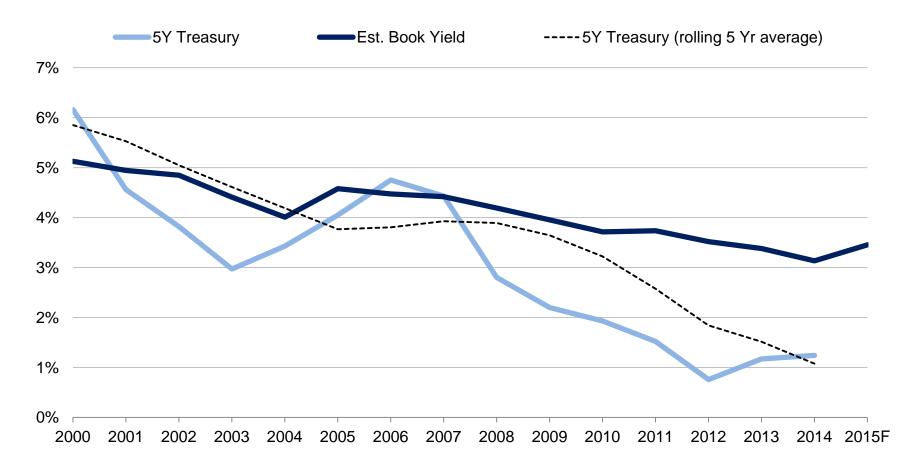


195319561959196219651968197119741977198019831986198919921995199820012004200720102013

Prepared by Conning, Inc. Source: U.S. Department of the Treasury (1953-2015).



Property-Casualty Industry Historical Book Yield



Prepared by Conning, Inc. Source: Conning, Inc. Property-Casualty Forecast & Analysis by Line of Insurance, 2015Q2 Edition

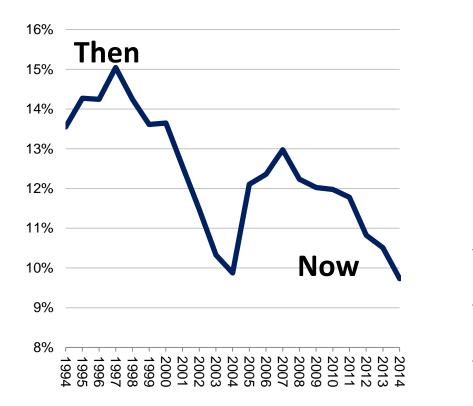


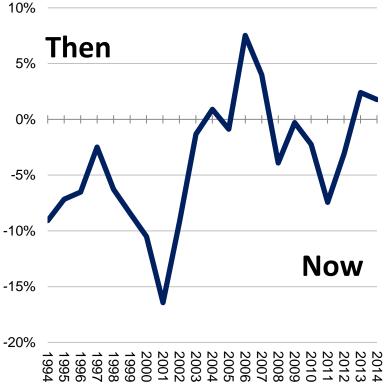
Lower Interest Rates Put Pressure on Underwriting

Comparison Between Underwriting and Investment Income as a % of Net Premiums Earned

Investment Income as a % of Earned Premium

Underwriting Income as a % of Earned Premium



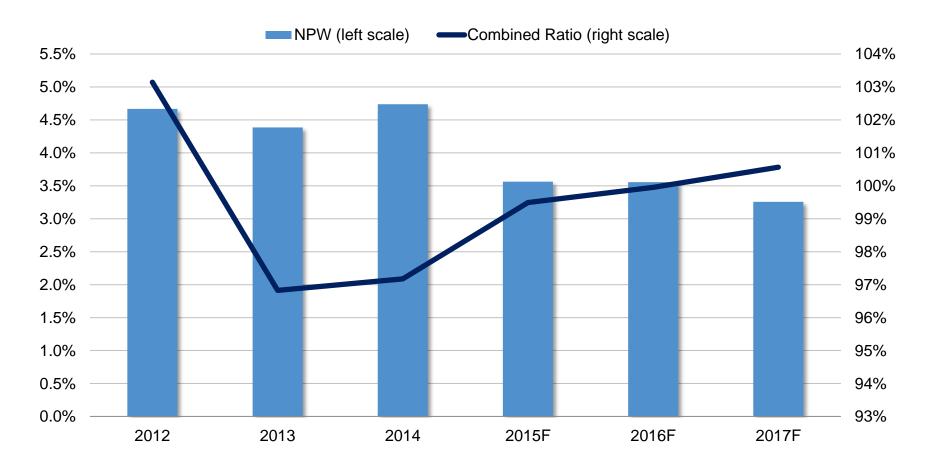


Prepared by Conning, Inc. Source: ©1994-2014 A.M. Best Company used by permission.



Forecast Slowing Industry Premium Growth, Rising Combined Ratio

Change in Net Premiums Written & Combined Ratios, Total All Lines

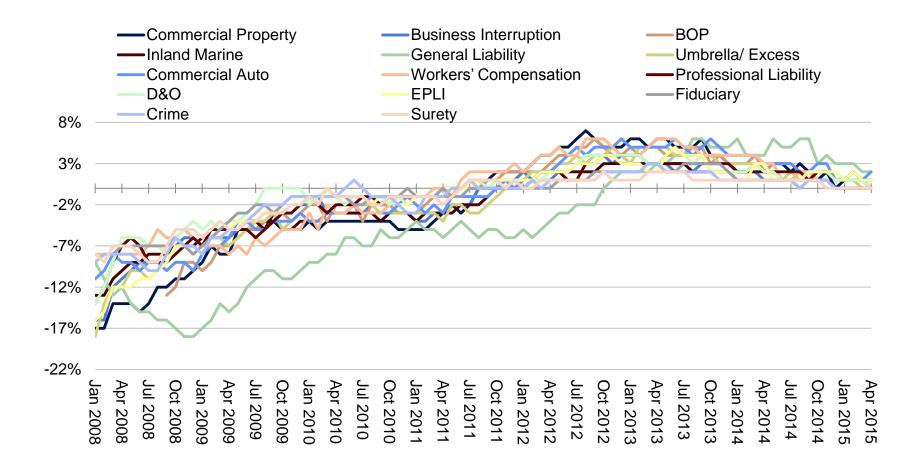


Prepared by Conning, Inc. Source: Conning, Inc. Property-Casualty Forecast & Analysis by Line of Insurance, 2015Q2 Edition



Insurance Rates—Entering the Soft Market Phase

Average Renewal Rate Change, Commercial Lines



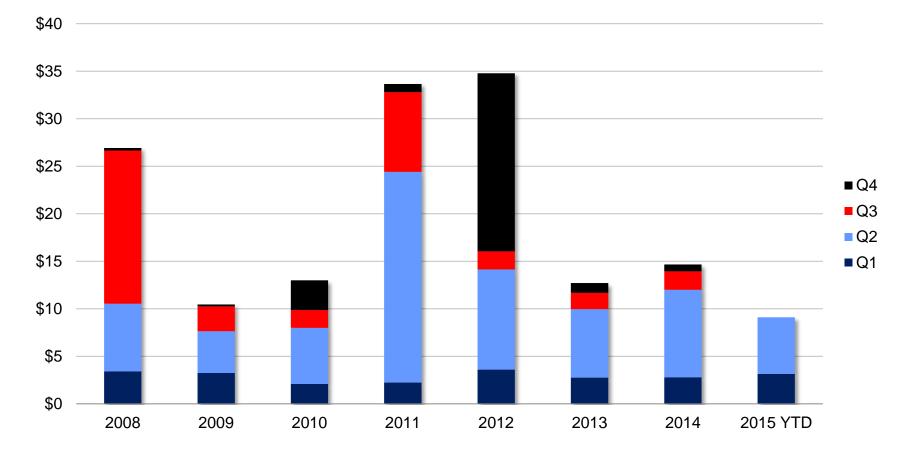
Prepared by Conning, Inc. Source: information from MarketScout.com.



Nine Years Since FL Hurricane—Longest Hiatus Since 1951...

Insured Catastrophe Losses by Quarter

\$ in billions

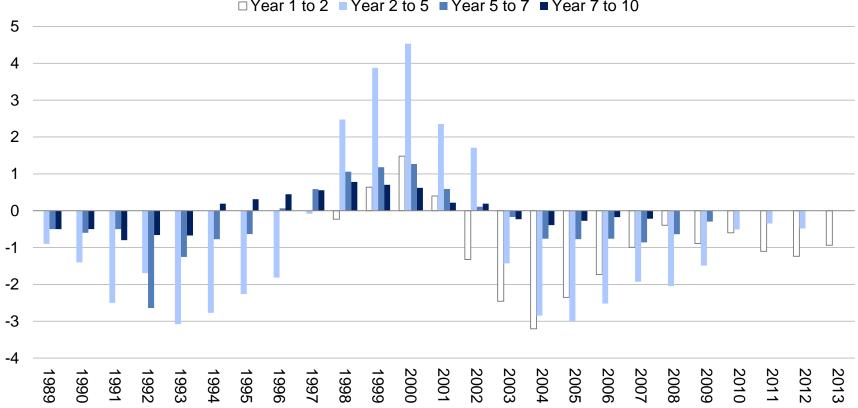


Prepared by Conning, Inc. Source: Property Claim Services Unit of ISO, a division of Verisk Analytics, Inc.



Loss Reserve Cycle—The Gift That Kept on Giving

Point Changes in Accident-Year Incurred Loss Ratio, Total All Lines



 \Box Year 1 to 2 \blacksquare Year 2 to 5 \blacksquare Year 5 to 7 \blacksquare Year 7 to 10

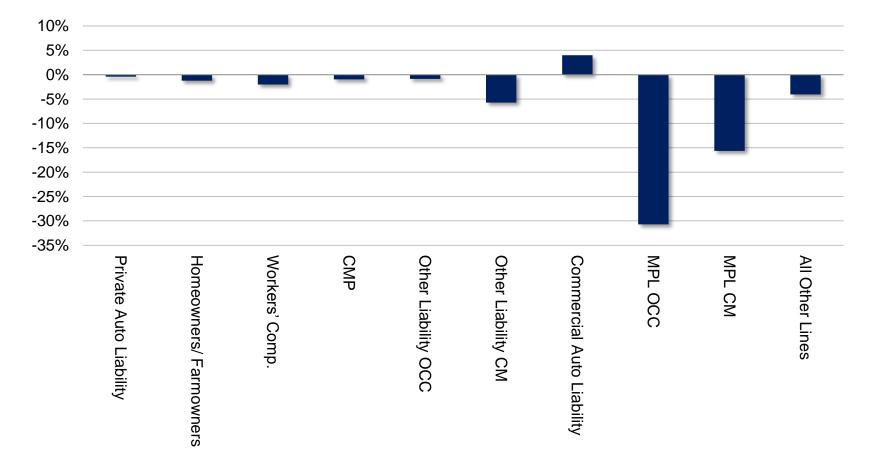
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Strongest Reserve Releases in Long-Tailed Lines

Change in Prior-Year Incurred Losses by Line During 2014 Calendar Year

% of Net Premiums Earned



Prepared by Conning, Inc. Source: ©2014 A.M. Best Company - used by permission.



Historical Reserve Redundancy/(Deficiency) as a % of Reserves by Line of Business— Including Tail Deficiency

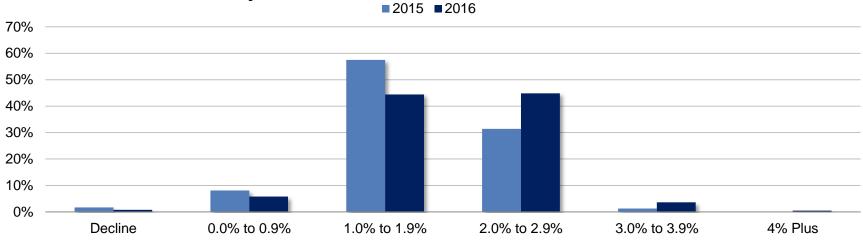
\$ in millions

						\$ Redundancy/
Line	2010	2011	2012	2013	2014	(Deficiency), 2014
Private Passenger Auto Liability/Medical	6.5%	7.1%	7.2%	6.3%	5.9%	\$5,392
Homeowners/Farmowners	0.0%	2.2%	10.2%	5.4%	5.5%	1,004
Workers' Compensation	(4.2%)	(6.4%)	(1.2%)	1.0%	2.4%	3,099
Commercial Multiperil	(2.7%)	(3.7%)	(0.5%)	(0.3%)	1.2%	386
Other Liability (Occurrence)	4.7%	6.6%	7.3%	5.8%	0.0%	24
Other Liability (Claims-Made)	(0.9%)	2.5%	(3.3%)	5.9%	11.2%	4,279
Commercial Auto/Truck Liability/Medical	5.4%	2.7%	0.5%	3.0%	(4.5%)	(1,102)
Medical Professional Liability (Occurrence)	26.9%	28.3%	28.3%	31.1%	22.5%	2,407
Medical Professional Liability (Claims-Made)	32.3%	33.9%	32.2%	29.8%	24.5%	3,877
Total Study Lines	3.1%	2.6%	4.2%	5.0%	4.4%	\$19,366

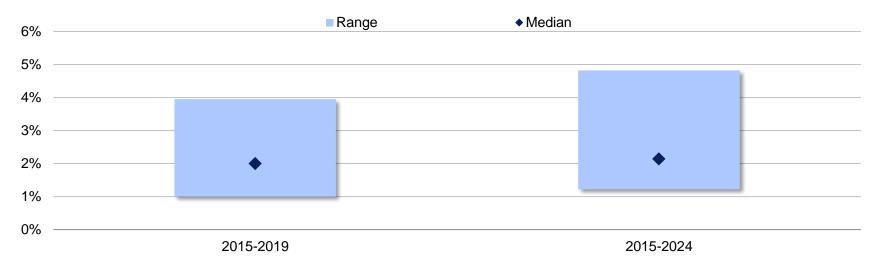
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Mild Inflation, but Upward Bias for Future

Distribution of Core CPI Projections



Probabilities for Core CPI Inflation

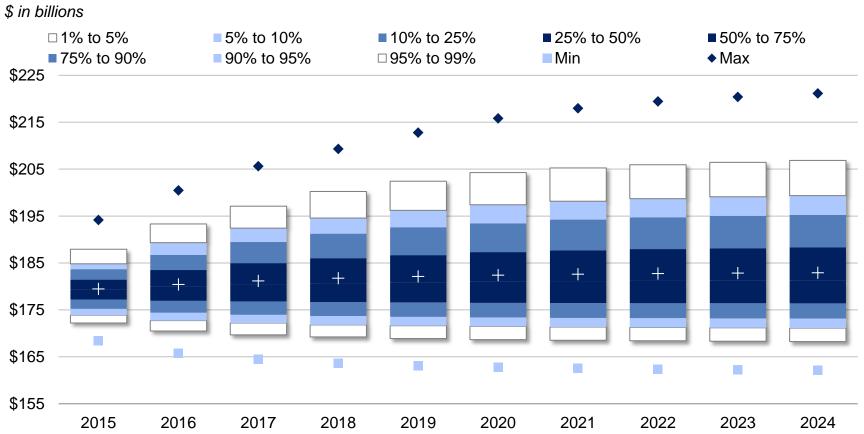


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Inflation Rise Would Challenge Workers' Comp Reserve Adequacy

Sample of Stochastic Analysis of Ultimate Loss, Top Workers' Compensation Writers



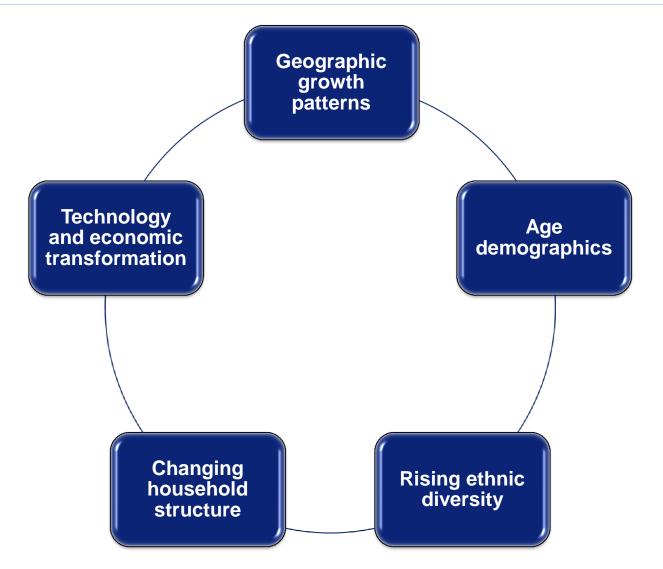
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STRUCTURAL CHANGES AFFECTING THE INDUSTRY



Five Critical Trends Reshaping Consumer Markets

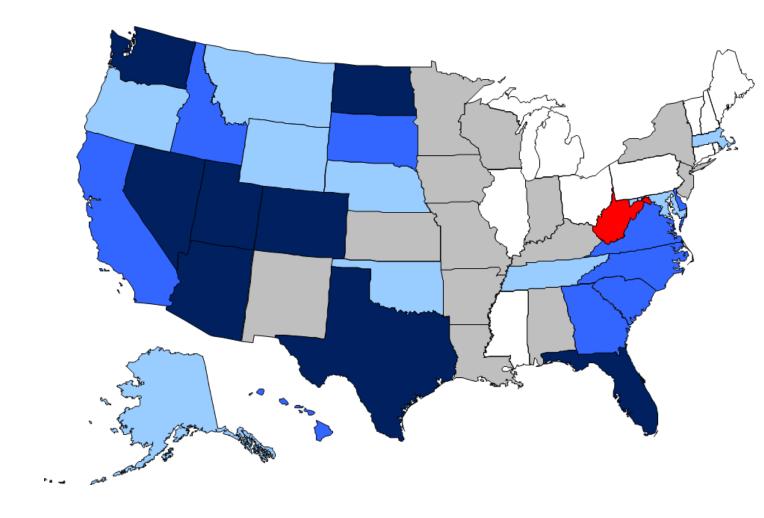




Uneven U.S. Population Growth Geographically

State Population Growth 2010-2014

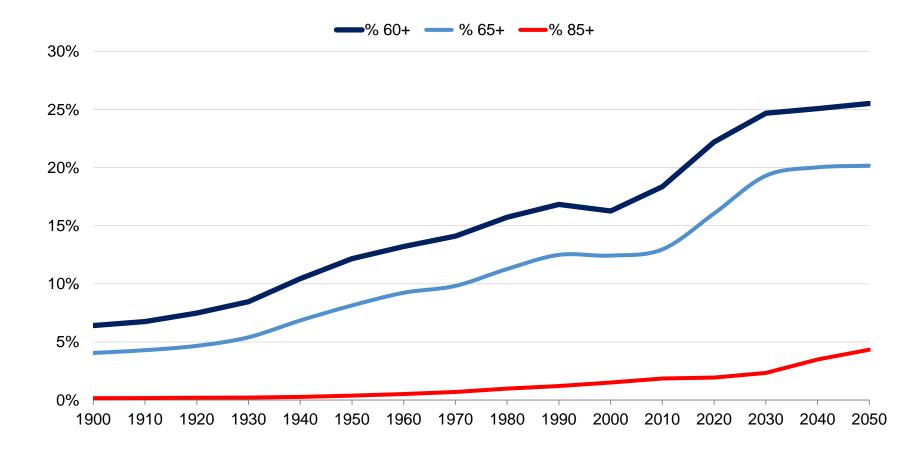
<0%
0%-1%
1%-3%
3%-4%
4%-5%
>5%



©2015 Conning, Inc. Source: U.S. Census Bureau (U.S. Department of Commerce (2010-2014).



Older Population by Age as a % of Total Population

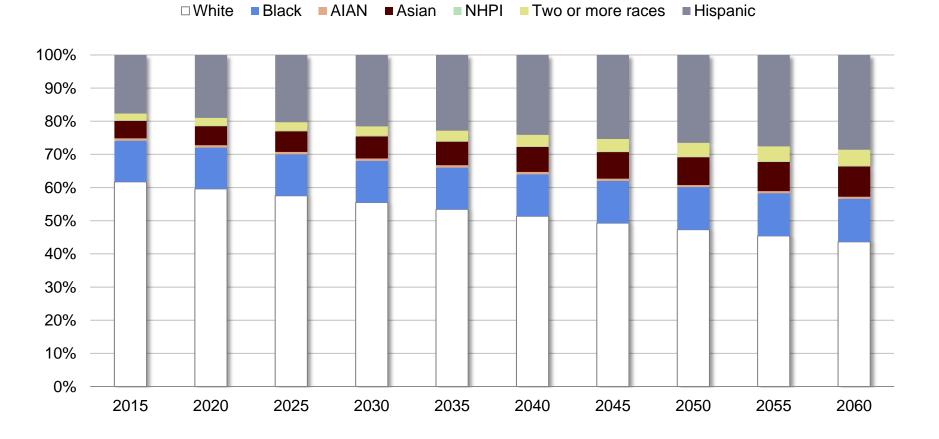


Prepared by Conning, Inc. Source: U.S. Department of Health & Human Services (1900-2015)

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U.S. Population Is Approaching "Majority Minority"

U.S. Population Estimates and Projections

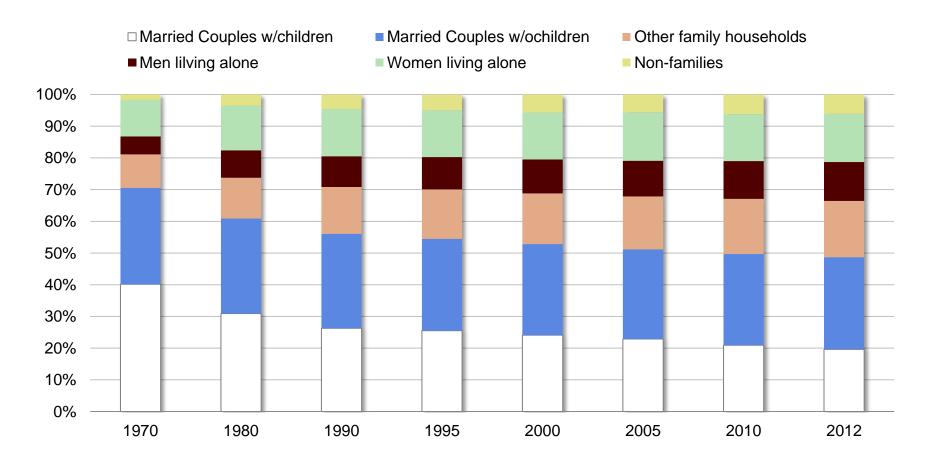


Prepared by Conning, Inc. Source: U.S. Census Bureau, U.S. Department of Commerce (2015).



Family Structure of the U.S. Household Changing

Share of Households by Type, U.S.

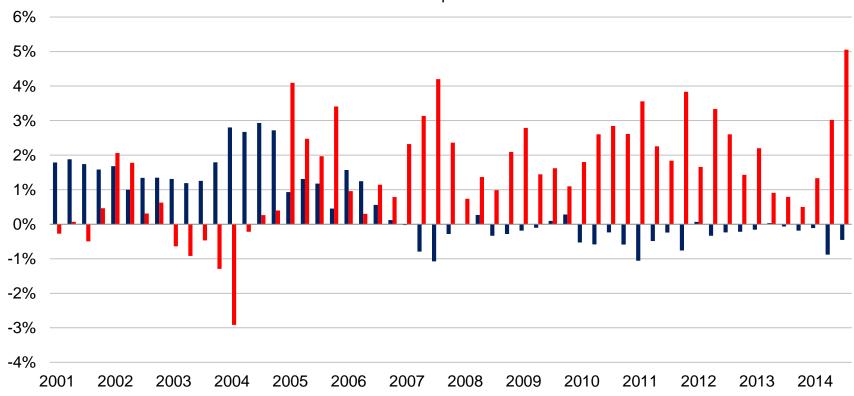


Prepared by Conning, Inc. Source: U.S. Census Bureau, U.S. Department of Commerce (1970-2012).



Implications of Demographic Shifts: More Renters

% Change in Owner vs. Renter Housing



■ Owner-Occuped ■ Renter

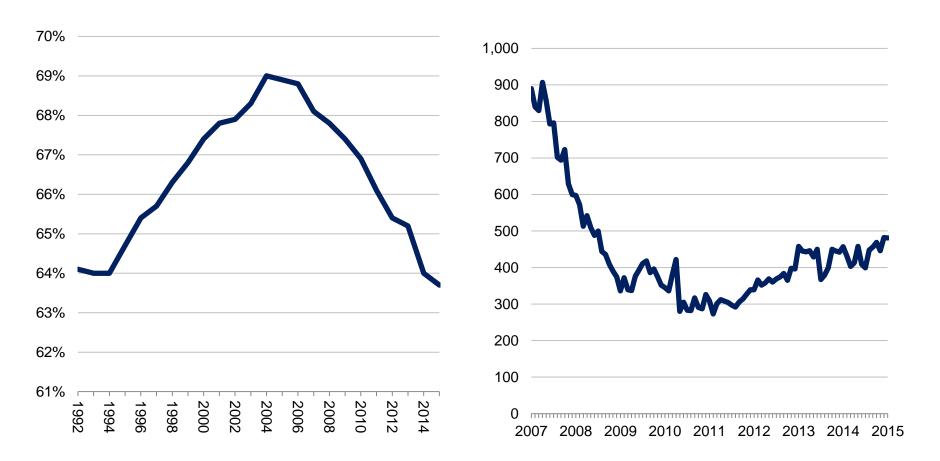
Prepared by Conning, Inc. Source: U.S. Census Bureau, U.S. Department of Commerce (2001-2014).

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Falling Homeownership Affects HO Insurance Potential

Home Ownership Rate

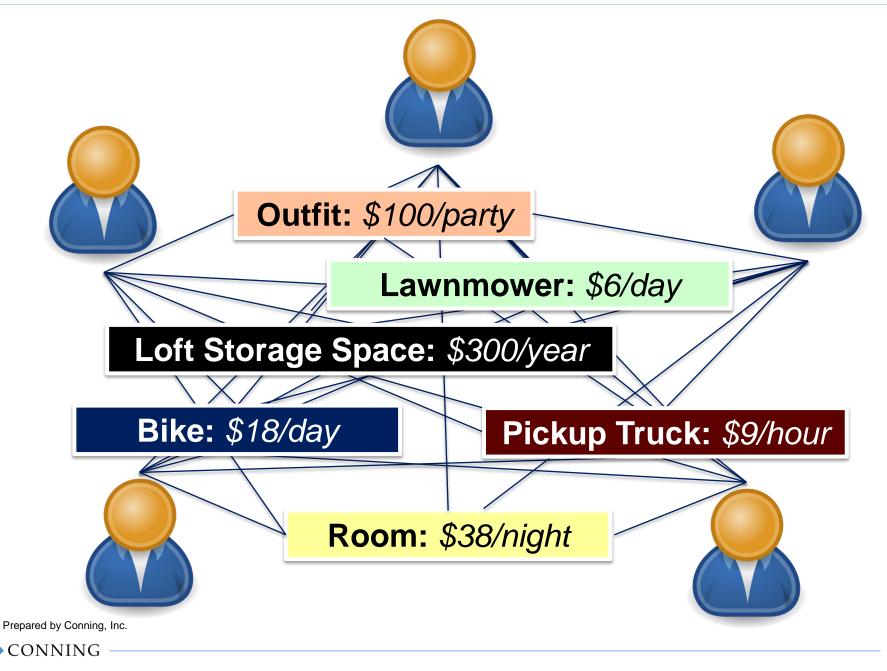
New Single-Family Home Sales



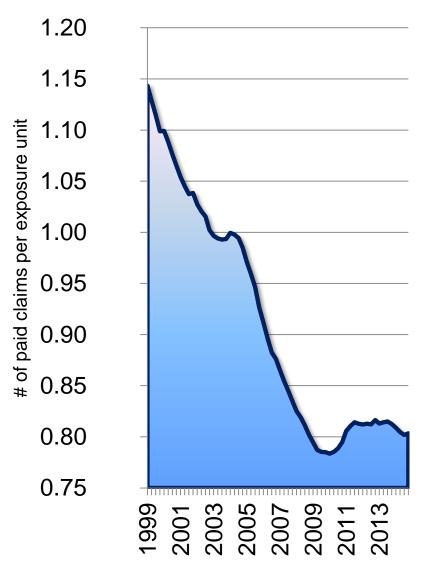
Home sales = seasonally adjusted rate, in thousands

Prepared by Conning, Inc. Source: U.S. Census Bureau, U.S. Department of Commerce (1992-2015).

Sharing Economy Affects First-Party Premium Potential



Vehicle Safety Technology Affects Demand for PPA Insurance



Bodily Injury Frequency

Prepared by Conning, Inc. Source: ISO, a division of Verisk Analytics, Inc.

ONNING

Vehicle Safety Developments

- Rear seat lap/shoulder safety belts
- Side impact protection airbags
- Integrated child safety seats
- Daytime running lights
- Backup cameras
- Tire pressure monitoring systems
- Object detection warning systems
- Forward collision warning systems

Road Safety Developments

- Graduate driver laws
- Mandatory seatbelt laws
- Stricter DUI enforcement

Demand Influences

Future Market Impact
 Reduced demand for underlying exposure units Shifting risk profile
 Reduced demand for underlying exposure units
 Reduced claim frequency Mixed impact on severity—net favorable

The net result of reduced demand likely to be a search for additional growth opportunities:

- Progressive acquisition of ASX
- Expansion into service offerings
- Broadening geographic reach
- Expand distribution



Technology Trends	Future Market Impact
Telematics	 Individual risks vs. pooled risks Increased opportunity to interact with customer Loss prevention strategies vs. post-loss payment
Advanced Analytics	 Causal data vs. correlated data Threat of entry from data-savvy organizations



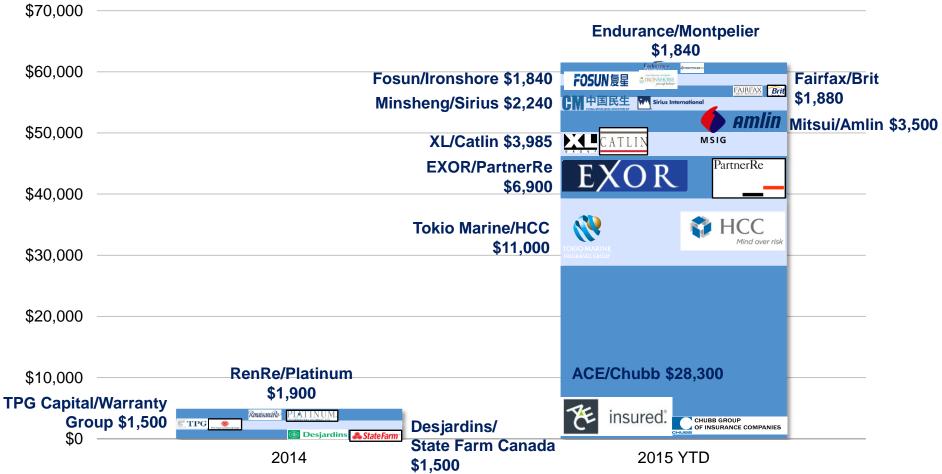
NOT YOUR FATHER'S INSURANCE INDUSTRY



M&A Explosion Creating a More Concentrated Industry

Transformational Mergers for Scale Dominate in 2015*

\$ in millions

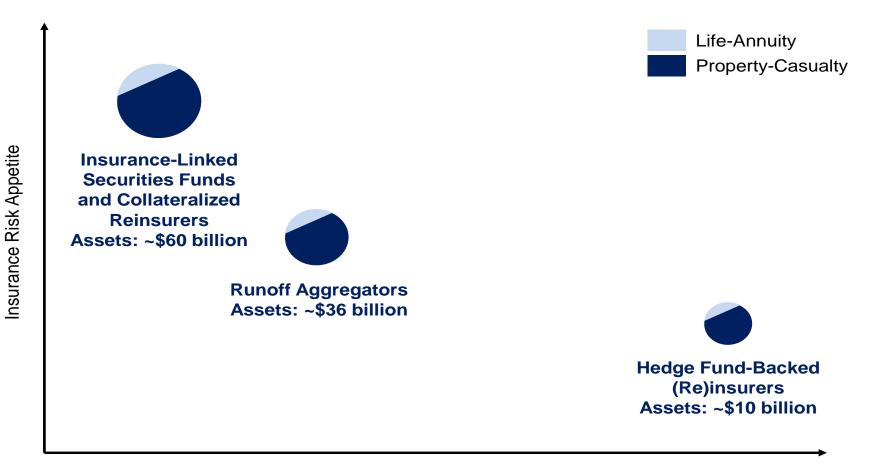


*Through September 11, 2015

Prepared by Conning, Inc. Sources: Publicly available company press releases and news articles.

Company logos provided for informational purposes only. Conning® does not promote or endorse in any way whatsoever any of the companies who are represented above.

New Insurance Formations, New Capital Sources



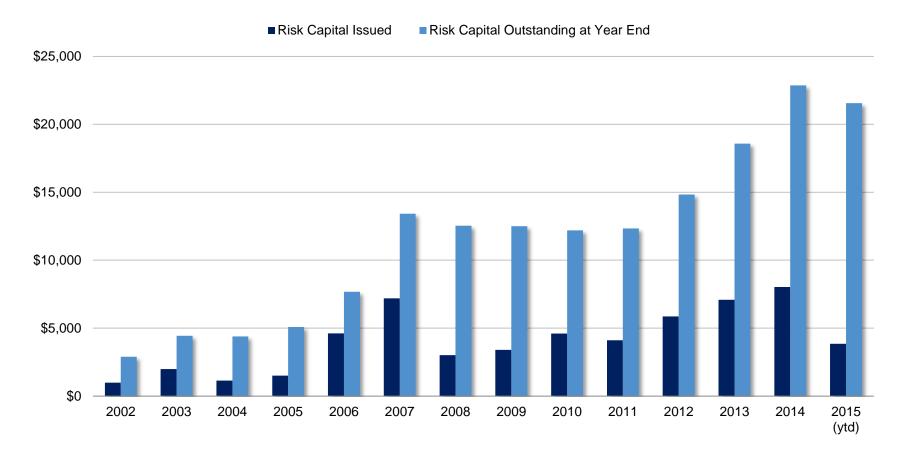
Investment Risk Appetite

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Property-Casualty Cat Bond Risk Capital Issued and Outstanding

\$ in millions



Prepared by Conning, Inc. Sources: Guy Carpenter public press releases (2002-2015).



Specialized ILS Fund Managers

\$ in billions

Fund Manager	Est. AUM	Date Formed	Focus	Related Insurer
Aeolus Capital Management	\$2.6 (as of 1/31/15)	2011	Property catastrophe reinsurance and retrocession	Allied World (minority stake)
AlphaCat Managers	1.9	2008	Cat bonds and private reinsurance transactions	Validus Group
Blue Capital Management Ltd.	0.8	2006	Catastrophe reinsurance	Montpelier
CATCo Investment Management	2.5	2010	ILS and insurance debt	Diverse investor base
Elementum Advisors	1.3		Collateralized natural event reinsurance	
Fermat Capital Management	5.1	2001	ILS and insurance debt	
Kinesis	0.3	2013		Lancashire
Leadenhall Capital Partners	1.8	2008	ILS and insurance debt	Amlin
Nephila Capital	10.0	1998	Natural catastrophe and weather reinsurance risk	
Pillar Capital Management	0.3	2008	Property catastrophe, founded as Juniperus Capital	Transatlantic Holdings
Secquaero Advisors	N/A	2007	Cat bonds and broader ILS funds	

Prepared by Conning, Inc. Source: company public disclosures.

Reinsurers—Participation in ILS

Reinsurer	Sponsor / Issuer	ILS Investor	Reinsurer	Sponsor / Issuer	ILS Investor
Allied World		${\bf \bigtriangledown}$	Markel	V	V
Amlin	V	${\bf \bigtriangledown}$	Munich Re		V
Arch Capital		\checkmark	PaCRe		
Argo Group			PartnerRe	V	V
Aspen		${\bf \boxtimes}$	RenaissanceRe	V	
AXIS			SCOR	V	V
Beazley	$\mathbf{\nabla}$		Swiss Re	V	V
Endurance (via Montpelier acq.)		V	Third Point		
Everest Re	$\overline{\mathbf{A}}$		Tokio Marine	$\mathbf{\nabla}$	
Greenlight Re			Transatlantic		$\mathbf{\nabla}$
Hamilton Re			Validus Re	V	\checkmark
Hannover Re		\checkmark	White Mountains	$\overline{\mathbf{v}}$	V
Hiscox			XL Catlin	V	
Lancashire	$\overline{\mathbf{A}}$	$\overline{\mathbf{v}}$			

Prepared by Conning, Inc. Sources: Public information on company websites.



Alternatives to Peak and Attritional Risk Leave Shrinking Middle



Shrinking middle for traditional risk transfer insurance



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Few Top Business Risks Covered by Insurance

AON Global Risk Management Survey of Top Risks, 2015

risks subject to traditional insurance coverage in red

- 1. Damage to reputation/brand
- 2. Economic slowdown/slow recovery
- 3. Regulatory/legislative changes
- 4. Increasing competition
- 5. Failure to attract or retain top talent
- 6. Failure to innovate/meet customer needs
- 7. Business interruption*
- 8. Third-party liability
- 9. Computer crime/hacking/viruses/malicious codes**

10. Property damage

*insurance can cover some property and operational losses; it cannot make up for loss of market share, reputational damages, declines in investor confidence, or a share price drop caused by an interruption

**developing cyber products are providing limited coverage

Prepared by Conning, Inc. Source: Aon Global Risk Management Survey Press Release April 27, 2015.



How Relevant Is Traditional Insurance to Today's Risks?

Deckers Risk Factors

1998

- License agreement termination
- Change in fashion trends
- Economic recession impacting sales and retailers' ability to pay
- Foreign suppliers failing to meet production goals and quality standards or obtain sufficient raw materials, or their product being subjected to additional U.S. customs duties or antidumping restrictions
- Foreign exchange fluctuations
- Competition and patent infringement
- Departure of key personnel
- · Insufficient inventory to meet demand
- · Loss of trademark rights
- Tax rate changes
- Stagnation of company strategy due to control by few large shareholders
- Weather

Note: risks that can be covered by conventional insurance products, if only partially, are in bold blue

Prepared by Conning, Inc. Sources: Deckers Outdoor Corporation, U.S. Securities and Exchange Commission, 1998 Form 10-K and 2014 Form 10-K.

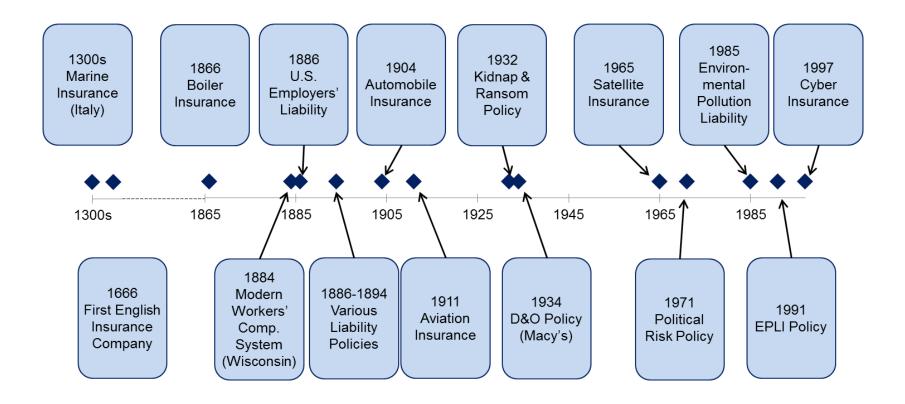
2014

- Weather affecting sales of seasonal shoes
- Failure to obtain raw materials meeting specifications, including loss of sheepskin warehouses in China from natural disasters and other adverse events
- Unprofitable retail operations
- Inability to meet demand if it exceeds expectations
- Trademark and intellectual property right infringement, such as counterfeiting of the UGG shoe
- Failure to anticipate fashion trends
- Failure to execute growth strategies successfully
- · Goodwill and other intangible impairment losses
- Failure of independent manufacturers to meet quality standards
- Unexpected cost overruns in Chinese manufacturers from tariffs, higher costs, political and regulatory risks
- Foreign exchange fluctuations
- Hacking or other failures to processing systems; weather and natural catastrophe damage, power loss
- · Inability to attract appropriate staff
- Loss of warehouses
- · Loss of international sales from political or economic changes in foreign markets
- · Higher duties from import restrictions
- · Restrictions on credit facility
- Increased U.S. or foreign taxes
- Competition
- Litigation
- Stock price decrease
- Loss, theft, or misuse of sensitive customer or company information
- Economic slowdown



Limited Innovation Historically

Timeline of Significant Property-Casualty Insurance Innovations





Hedge Fund Reinsurers

\$ in millions

	Greenlight	PaCRe	Hamilton Re	Third Point	Watford Re	Fidelis	ABR Re
Date Formed	2004	2012	2012	2011	2014	2015	2015
Sponsor(s)	Greenlight Capital	Paulson & Co., Validus	Two Sigma	Third Point LLC, Kelso & Co., Pine Brook, Others	Arch Capital, Highbridge Capital	Crestview Partners, CVC Capital Partners, Pine Brook	ACE Ltd., BlackRock Inc.
Domicile	Grand Cayman	Bermuda	Bermuda	Bermuda	Bermuda	Bermuda	Bermuda
Current Capital(1)	\$1,194	\$616	\$500	\$1,452	\$1,485	\$1,500	\$800
Assets % with Sponsor	Substantial	Substantial	100%	100%	100%	0%	100%

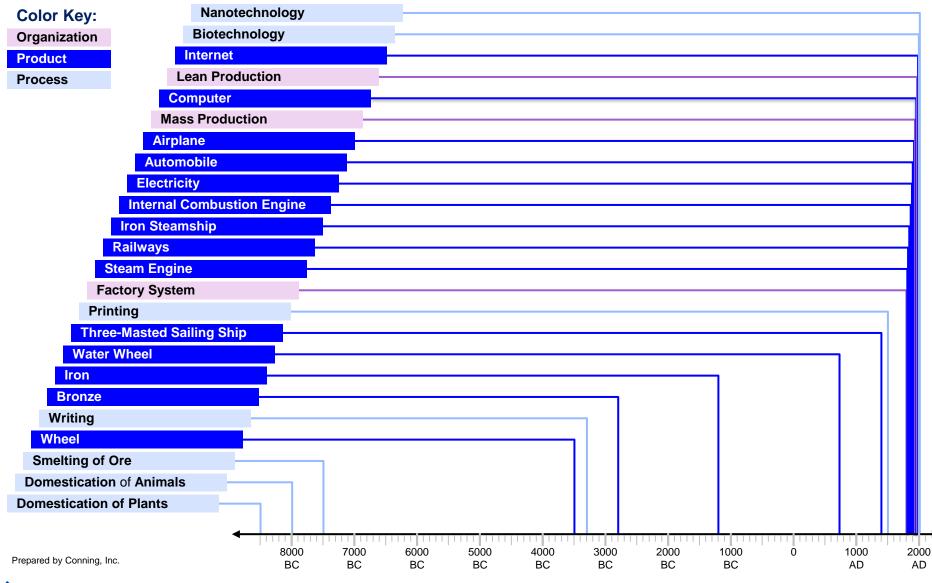
(1) As of December 31, 2014, except Hamilton Re, Fidelis, and ABR Re, which are as of formation date

Prepared by Conning, Inc. Sources: Public information on company websites.



Disruptive Change Acceleration Requires Insurance Responses

General Purpose Technology





J.D. Power Small Commercial Insurance Voice of the Customer Survey, 2014

Factors Contributing to Customer Experience with Insurer of Small Commercial Business	High Satisfaction Rating	
Interaction	29%	
Policy offerings	26%	
Price	21%	
Billing and payment	18%	
Claims	6%	

Prepared by Conning, Inc. Source: J.D. Power and Associates, McGraw Hill Financial - used with permission.



IMPLICATIONS



New Products Lead with New Service Paradigm

The three largest new P&C products introduced in recent decades feature strong service component provided by the insurer.

- EPLI—training to prevent harassment, retaliation, and wrongful termination. HR help line specializing in employment law.
- D&O—panel counsel available as resource during litigation. Loss mitigation/loss prevention literature.
- Cyber—post-breach notification, credit monitoring, identity monitoring services, forensic, and legal assistance.

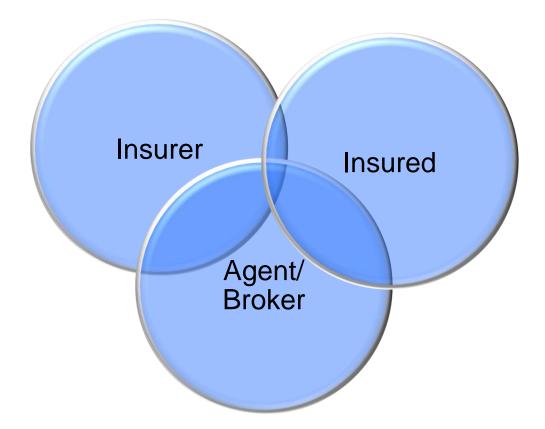
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Value-Added Services in Insurance Product of Future

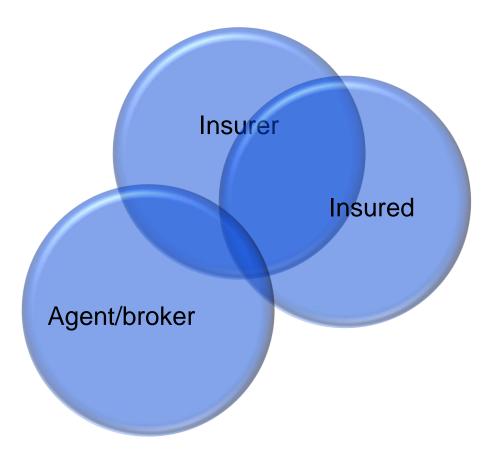






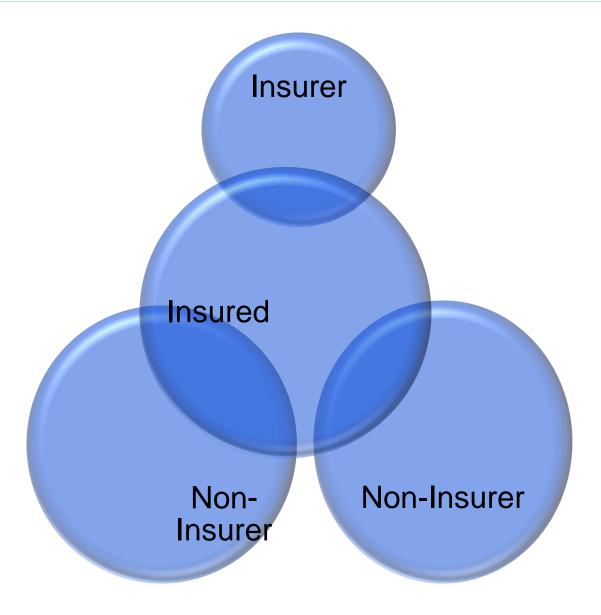


Insurers to Be More in Tune with the Customer





Data-Rich Non-Insurers Could Pose a Threat





Tomorrow's Insurance Industry

- A more concentrated market
- Shrinking demand for traditional products
- New data-rich competitors

Responses to Remain Relevant

- Introduction of new products addressing technology-driven change
- Expanded service offerings
- More customer interaction
- Increased price transparency
- Shift to loss prevention and behavior modification



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