2018 ECONOMIC AND INSURANCE MARKET CONDITIONS

Sean Kevelighan

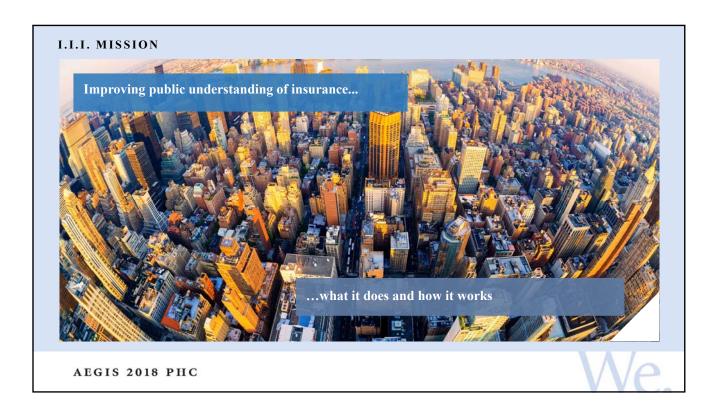
President and Chief Executive Officer

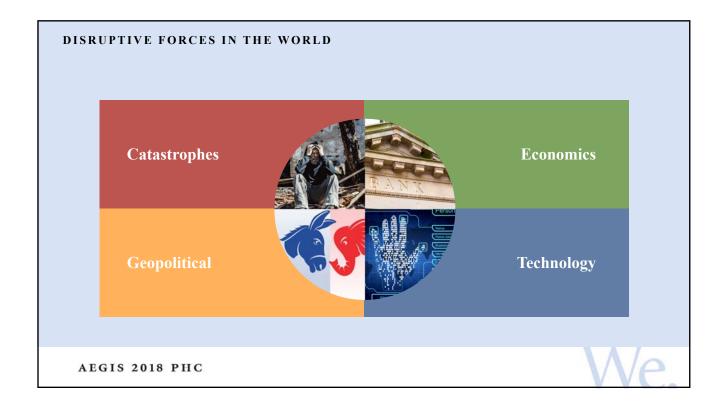
Insurance Information Institute



'We' is simply the advantage of our mutual. We are here for you. And, we are all in this together.







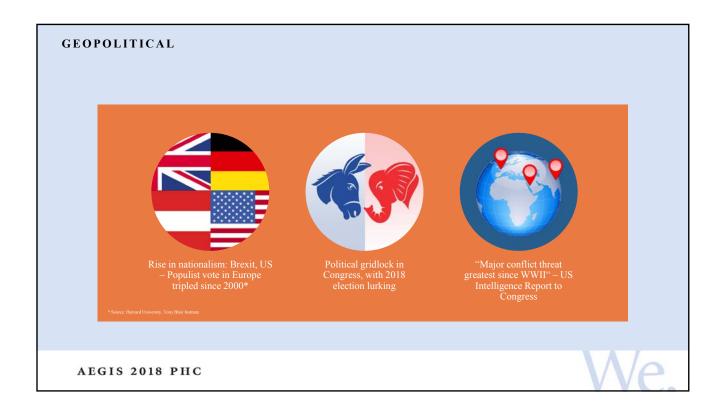
2017: A RECORD YEAR OF CATASTROPHE LOSSES

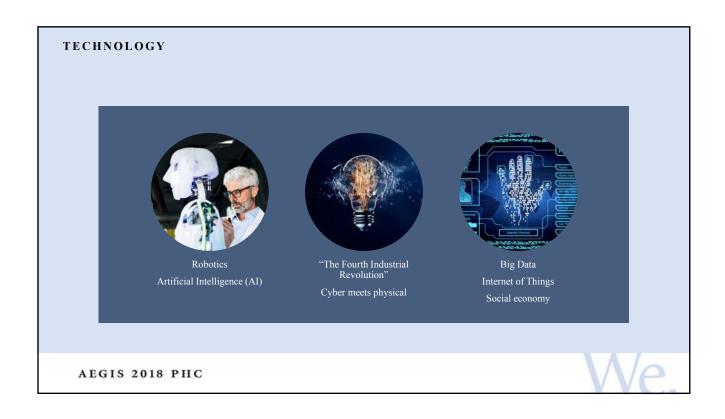


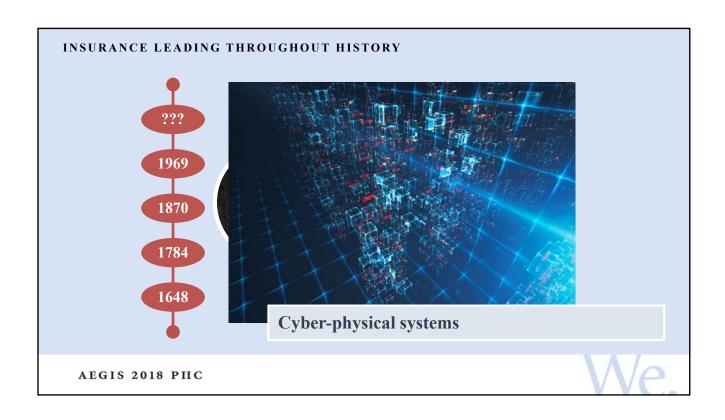
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Insurance Industry Economic Snapshot

STATE OF INSURANCE Consolidation/M&A **Catastrophe Costs Top Issues** Insurance-related deals P/C payouts / Property losses¹ Autonomous involving US firms2 vehicles d000 2017 2016 \$22 P2P insurance \$21.6 \$135 2016 499 rod billion billion billion Cybersecurity DEALS VALUE **Sharing economy** \$107 **US insured CAT losses** billion +386% \$90.1 Workers' Comp \$76.8 regulation **Politics** \$15.3 billion Overcapitalization (reinsurance) 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 1 1. PCS; 2. Conning Research 3. S&P Financial AEGIS 2018 PHC

2018-2020 OVERVIEW

The insurance industry and the economy

P/C insurance markets

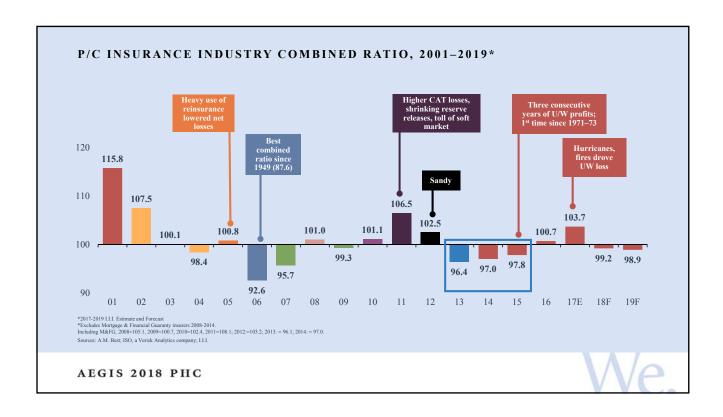
- 2018 combined ratios for catastrophe-affected lines of business will likely improve (due to reversion to the mean). Personal Auto & Commercial Auto likely will be closer to 100
- There is no sign of a "hard" market in 2018, but premium in both personal and commercial lines will likely continue rising

Financial markets

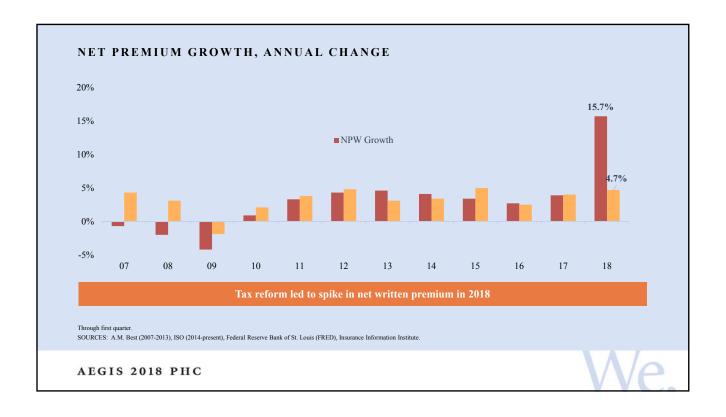
- In the US, short-term interest rates are finally rising and this is expected to continue. Long-term rates haven't changed as much, so the yield curve is flatter
- Although bond yields anticipate inflation continuing near 2 percent for five or more years, more direct measures see prices rising closer to 3 percent, with prices in some sectors (lately, e.g., lumber) rising much faster

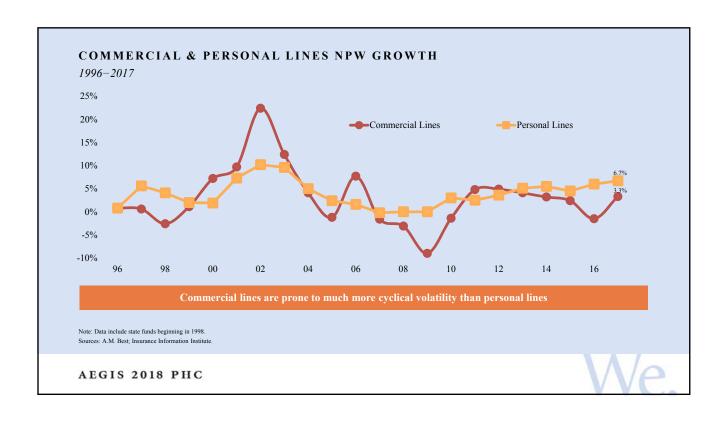
The US economy

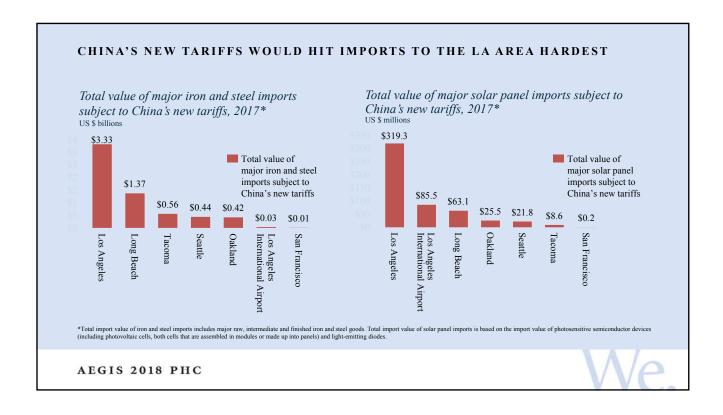
- Real GDP growth has shown unexpected strength in recent calendar quarters. Both personal consumption (+4.7%) and business nonresidential fixed investment (8.1%) are rising, heralding a growing exposure base
- This is the second longest expansion since WWII, and many forecasters say it will become the longest when it persists into July 2019. There are virtually no signs of another recession

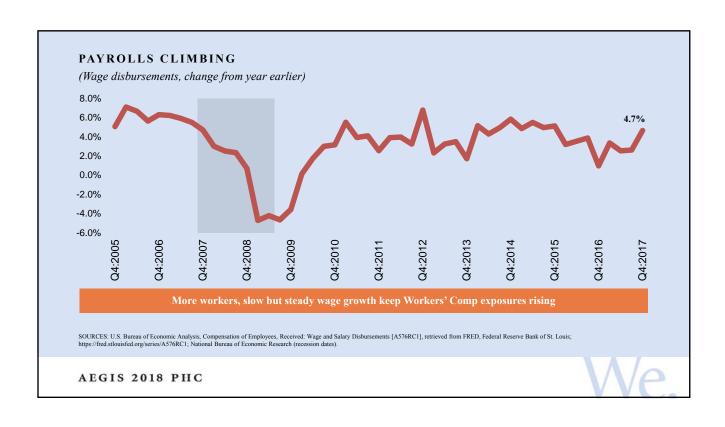


Insurance and Commercial Trends

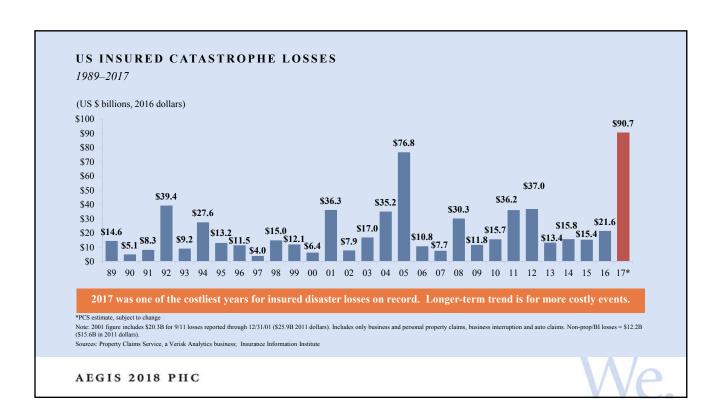


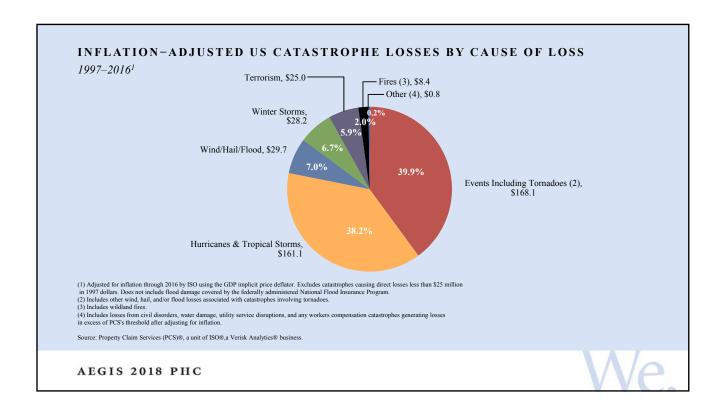






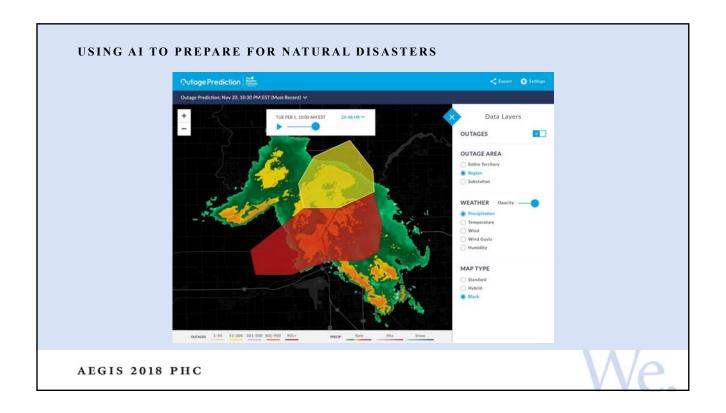
Catastrophes

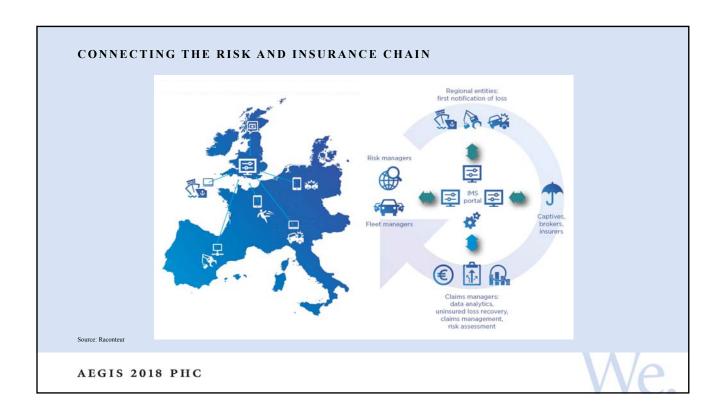


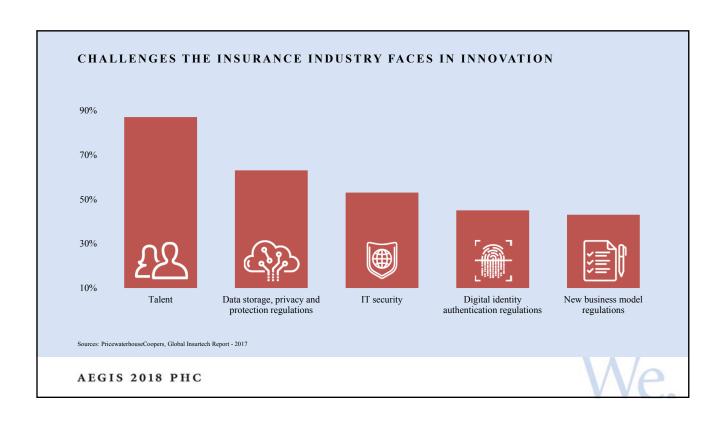


INVESTMENTS IN RESILIENCE PAYING OFF FOR UTILITIES IN 2017 9 days after Irma made landfall in Florida, 99.9% of FPL customers had power, thanks to Only about 14 % of Harris County, Texas properties had flood insurance at the time of Harvey. Florida's overall flood insurance rate was about 19% at the time of Irma. Texas has no statewide building codes, but municipalities are considering Following Harvey, none of the adopting new standards. any significant damage in their In Florida, after Irma, homes that were generation fleet or power generating system, thanks to advanced infrastructural built to stricter (post-Andrew) building codes fared better. Sources: Scottmadden.com; FEMA; Realtor Magazine; Wall Street Journal. AEGIS 2018 PHC

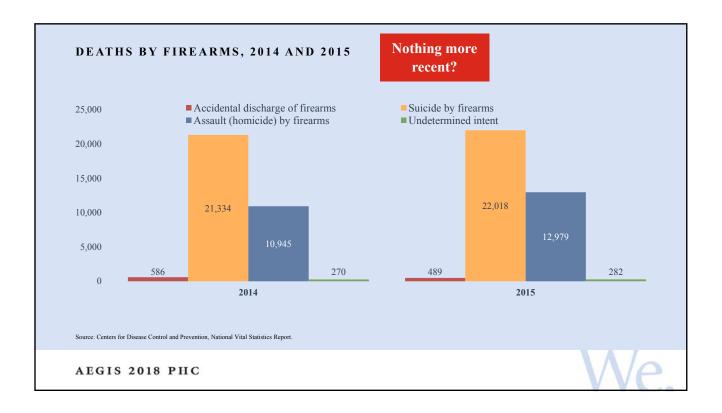
Analytics in Insurance and Risk Management







Gun Liability



GUN LIABILITY COVERAGE

Personal Insurance

- Most individuals have some property and liability coverage for firearms in their standard homeowners' policy
- Only covers accidental shootings and in some cases, acts of self-defense
- Personal umbrella policies are available, covering liability above the homeowner policy limit

Group Personal Insurance

- Personal firearms liability insurance was available from some organizations to cover acts of selfdefense
- Offers protection against civil liability, the cost to defend against civil and criminal legal actions and access to attorney referrals
- As of 2018, most brokers and insurers have stopped administering the programs

Commercial Insurance

- Coverages can be triggered by active shooting incidents, including general liability, business interruption and property insurance
- Workers' comp insurance is implicated in shootings in the workplace while commercial general liability insurance coverage might also be implicated in a public area

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Defining Terms and Concepts

What is "The Fourth Industrial Revolution"?

FOUR INDUSTRIAL REVOLUTIONS

- The First Industrial Revolution used steam power to mechanize production (early 19th century)
- The Second Industrial Revolution used electric power to create mass production (late 19th century and early 20th century)
 - It also harnessed the internal combustion engine, the telephone (and other communications technology),
 and flight
- The Third Industrial Revolution used the internet and information technology to automate production and accelerate communication (late 20th century)
- The Fourth Industrial Revolution is characterized by a fusion of technologies that is blurring the lines between the physical, digital, and biological spheres

Source: https://www.weforum.org/agenda/2016/01/the-fourth-industrial-revolution-what-it-means-and-how-to-respond

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FOUR MAIN EFFECTS ON BUSINESS OF THE FOURTH INDUSTRIAL REVOLUTION

- 1. Customer expectations
- 2. Product enhancement
 - Products can be more personalized and/or have added digitally-enhanced features
 - Products can be more durable and resilient, and more cheaply and easily maintained
- 3. Collaborative innovation
 - Given the speed of innovation, organizations will need new forms of collaboration to keep up
- 4. Organizational forms
 - Talent, culture, and organizational forms will have to be rethought

Source: https://www.weforum.org/agenda/2016/01/the-fourth-industrial-revolution-what-it-means-and-how-to-respond

Insurance Under the Fourth Industrial Revolution

Time Frame: Next 10 Years

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FOUR MAIN EFFECTS OF THE FOURTH INDUSTRIAL REVOLUTION ON THE INSURANCE BUSINESS

1. Customer expectations

(personal lines and small business insurance)

- Regarding shopping for, and buying, insurance
 - Artificial Intelligence (AI) could, via big data, determine unique characteristics for each prospective customer
 - AI and virtual reality could help buyer choose ideal policy limits in part by simulating various claims events



FOUR MAIN EFFECTS OF THE FOURTH INDUSTRIAL REVOLUTION ON THE INSURANCE BUSINESS

2. Product enhancement

- Policies can be linked to sensors on the policyholder's property (or, for life and health insurance, on the policyholder)
- Policies can be linked to recommend tailored behavior-change information that would reduce risks that could become claims, such as real-time driving suggestions, etc.
- Policies can be linked to tailored educational information, such as updated flood-zone maps, new scientific discoveries regarding earthquakes, etc.



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FOUR MAIN EFFECTS OF THE FOURTH INDUSTRIAL REVOLUTION ON THE INSURANCE BUSINESS

3. Collaborative innovation

- Need for new forms of collaboration
- Insurers devising new coverages, collaborating with customers and business
- Insurers will have to collaborate with regulators
- Technology could foster creation of new insurers with specialized coverage



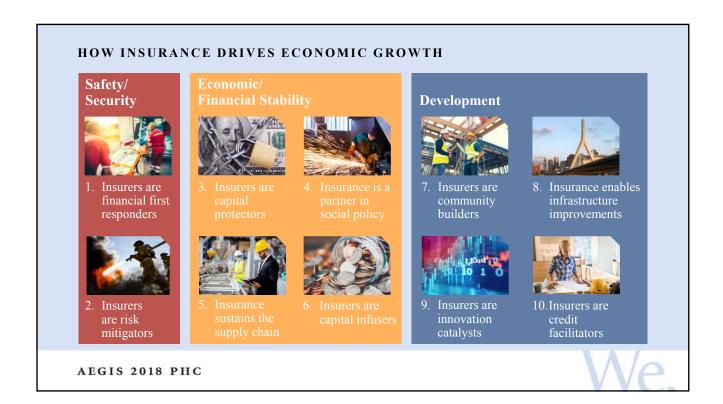
FOUR MAIN EFFECTS OF THE FOURTH INDUSTRIAL REVOLUTION ON THE INSURANCE BUSINESS

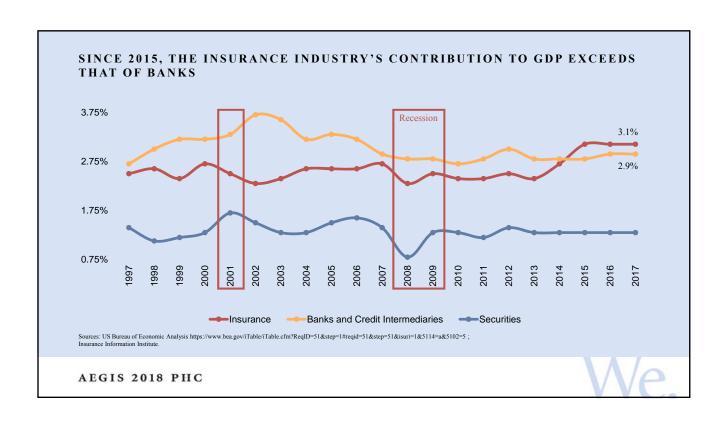
- 4. Talent, culture, and organizational forms
 - The percent of people in the agency, underwriting, financial management and claims areas will shrink
 - The percent of people in actuarial and IT areas will explode
 - Insurers will want to be seen by customers as part of a "financial safety net"



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How Insurance Drives Economic Growth





Thank you!

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