

Overview of US P&C and Marine Market

Marine Insurance Issues Seminar American Institute of Marine Underwriters, New York, NY May 7, 2019

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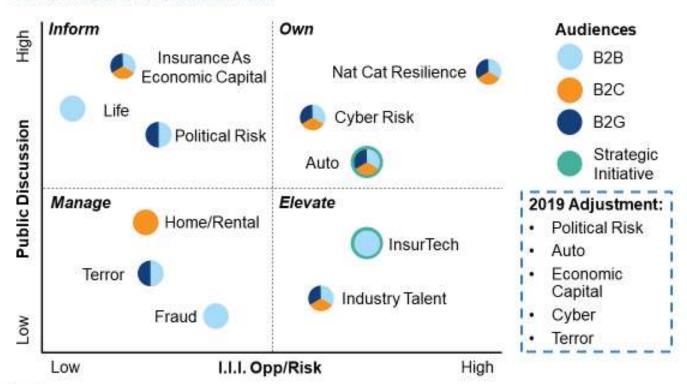
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What is the Insurance Information Institute?

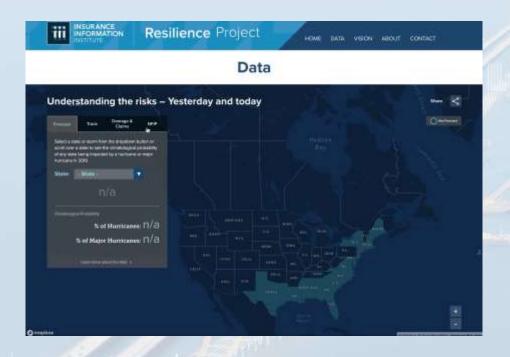


Renewed 2019 Focus

While some priorities have shifted over the past year, resilience has become a central theme across numerous issue areas



The Power of Visualization



Data transformed to show the power of resilience.





How Insurance Drives Economic Growth

Safety/ Security



1. Insurers are financial first responders



2. Insurers are risk mitigators

Economic/ Financial Stability



3. Insurers are capital protectors



5. Insurance sustains the supply chain



4. Insurance is a partner in social policy



6. Insurers are capital infusers

Development



7. Insurers are community builders



Insurers are innovation catalysts



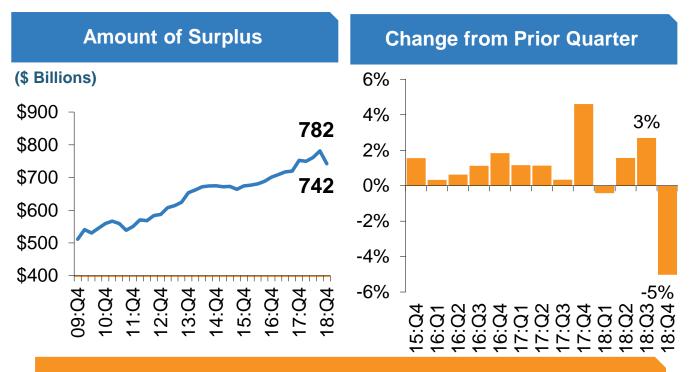
8. Insurance enables infrastructure improvements



10.Insurers are credit facilitators

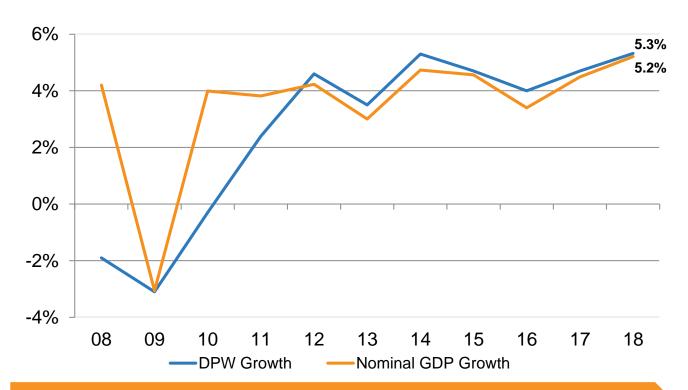
Financial Results Q4 2018

Policyholder Surplus By Quarter



Tax Law Increased Surplus at Year-End 2017 and Makes Surplus Growth a Bit More Volatile. \$0.83 Premium per \$1 Surplus.

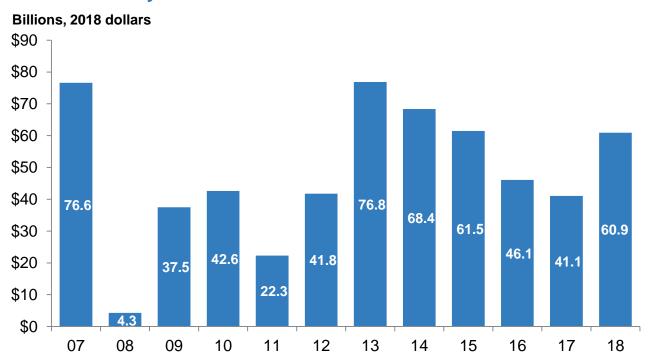
Direct Premium Growth, Annual Change



Direct Premiums Continue to Track Economic Growth

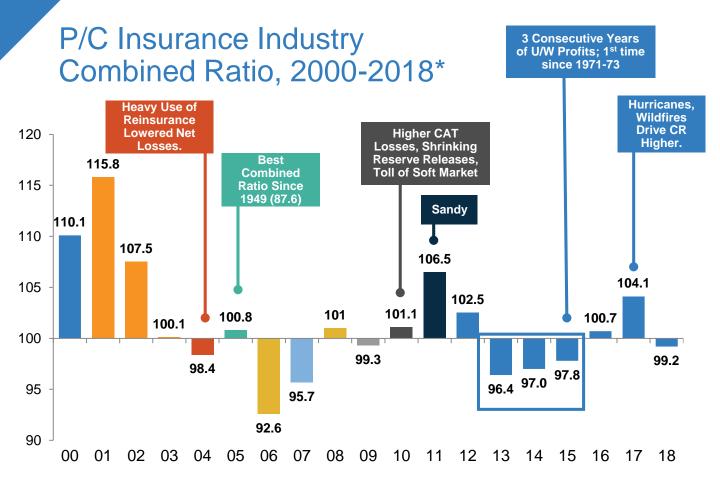


P/C industry net income after taxes

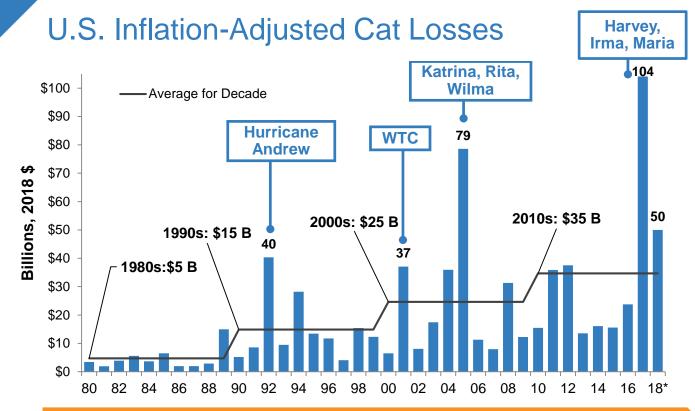


Catastrophes Let Up After Awful '17; Auto Turned a Corner.









2018 – Third worst year for U.S. Insured Catastrophe Losses. Average Insured Loss per Year for 1980-2018 is \$19.3 B.

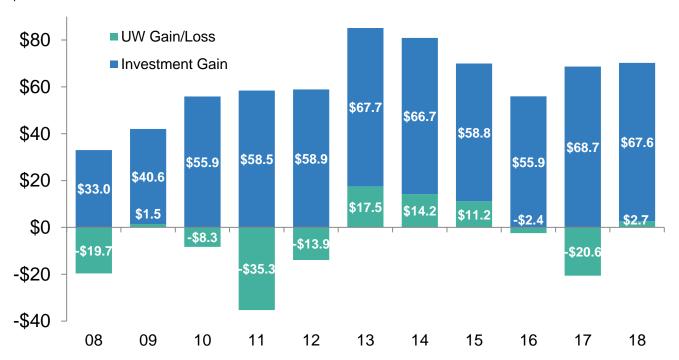
*2018: Estimate, subject to change. 2010s is average of 2010 to 2018.

Sources: 1980-2017 Property Claims Service, a Verisk Analytics business; 2018 Insurance Information Institute.

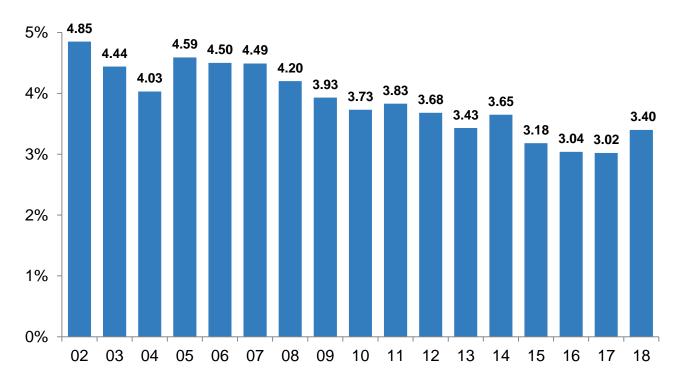


Key sources of P/C insurer profits, 2008-2018

\$ Billions



P/C Insurer Portfolio Yields



Yields Have Been Falling for Over a Decade, Reflecting the Long Downward Trend in Prevailing Interest Rates.

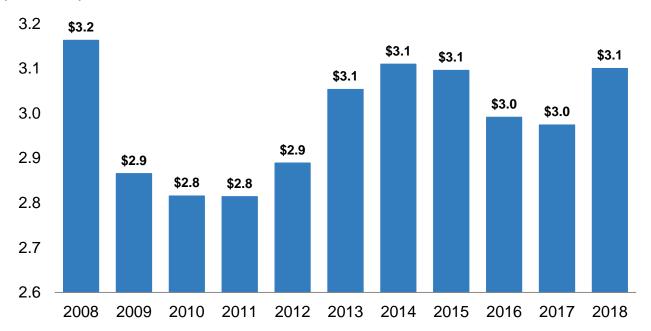


Marine Results

Underwriting is Historically Volatile; Has the Market Turned?

U.S. Ocean Marine Direct Written Premiums

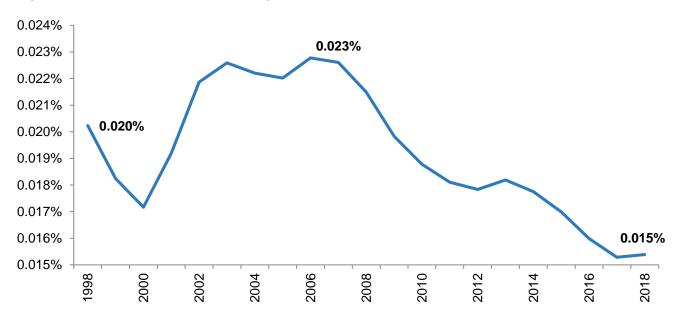
(\$ Billions)



Ocean Marine Premium Volume Fell During the Global Financial Crisis.

Has the Market Bottomed Out?

(U.S. Ocean Marine DWP as % of GDP)

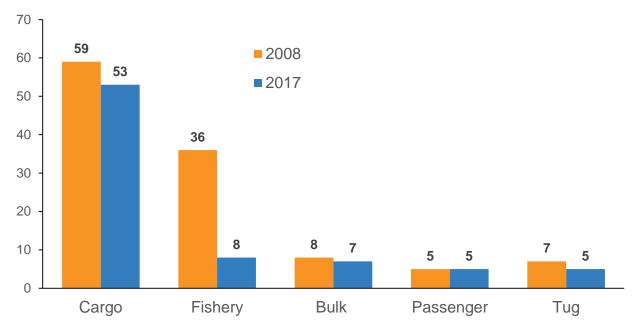


Economy Grows Faster Than Premium – Sign of Soft Market (30% Decline Since 2006 Peak)



Total losses by type of vessel 2008 vs. 2017

(Vessels Lost)



While Exposures Grow, the Number of Vessels Lost Has Declined.

Major Energy Losses

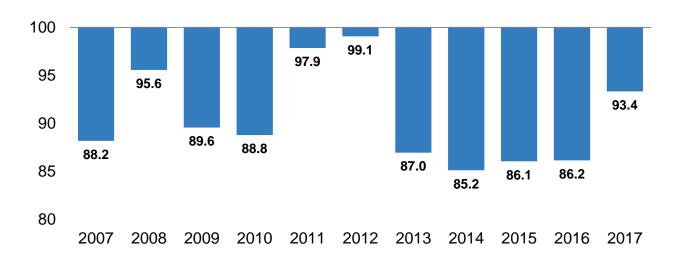
Loss	Туре	Снин	Region	PDUSS	OEE USS	DIUSS	Total USS
2016	MOPU	Mechanical failure	Africa	620,000,000	- 0	900,000,000	1,590,000,000
2016	Hig	Mochanical failure	North America	63,500,000	. 0	95,000,000	178,500,000
2016	Pipeline	Anchor/jacking/trawl	Africa	100,000,000	.0	0	100,000,000
2016	Plutform	Fire + explosion/VCE	Latin America	95,367,316	. 0	b	95,367,310
sois	Well	Bloward + fire	Austrologia	0	70,000,000	0	70,000,000
9016	Pipeline:	Terrorism	Africa	65,000,000	0	0	65,000,000
2016	Phillorm	Pling operations	Asia	51,000,000	0	0	51,000,000
2016	SSCS	Anchor/jacking/trawl	Middle East	50,000,000	0	0	50,000,000
2017	Woll	Collapse	Europe	42,000,000	151,737,600	35,451,000	229,188,600
2017	MOPU	Faulty work/op error	Africa	185,000.000	. 0	0	185,000,000
2017	MOPLE	Faulty work/op error	Asia Pacific	132,000,000	0	0	102,000,000
2017	Vessel	Pipulaying/tranching	Latin America:	129,000,000	0	0	128,500,000
2017	Well	Unknown	Europe	72,000,000	0	24,000,000	98,000,000
2017	Well	Blowout + fire	Europie	0	80,000,000	0	80,000,000
2017	Pipeline	Impact	Africa	70,500,000	0	0	70,500,000
2017	Pipoline	Corrosion	North America	60,000,000		0	60,000,000
2017	Platform	Fire no explosion	Africa	52,000,000	.0	0.	52,000,000
2017	Well	Blowout + fire	Africa	0	50,000,000	0	. 50,000,000
2018	Plurit	Eurthquake	Asia Pacific	270,000,000	0	0	270,000,000
	Pipeline :	Heavy weather	North America	51,000,000			51,000,000

Heaviest Upstream 2018 Losses Were Outside USA.



U.S. Marine Results, 2007-2017

Combined Ratio After Dividends 105



Results Deteriorated in 2018.

Economic Factors

Global Premium Growth, 2017

Real premium growth in 2017, vs average 2007–16 and outlook

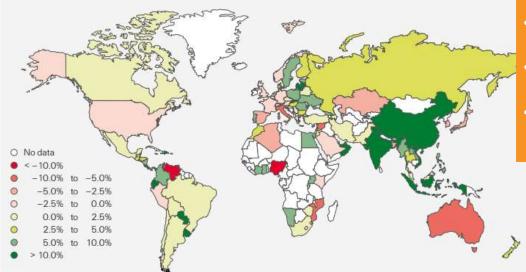


	Life			
Markets	2017	07-16	Outlook*	
Advanced	-2.7%	-0.2%	-	
Emerging	14%	8.3%	-	
World	0.5%	0.9%		

	Non-life			
201	Outlook*	107-16	2017	
-0.6	-	0.9%	1.9%	
10	→	8.4%	6.1%	
1.5		2.1%	2.8%	

Total		
2017	107-16	
-0.6%	0.3%	
10%	8.4%	
1.5%	1.4%	

*Direction of the arrow indicates whether real growth will improve, remain the same or worsen. Source: Swiss Re Institute



- Life Sector's Growth Cooled
- P/C Looking Good
- Watch China, India

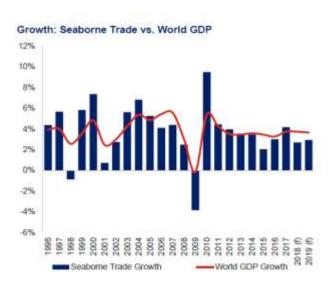


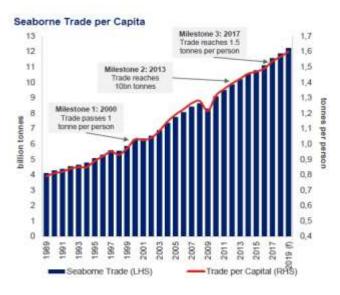
Economies by size of merchandise trade, 2017



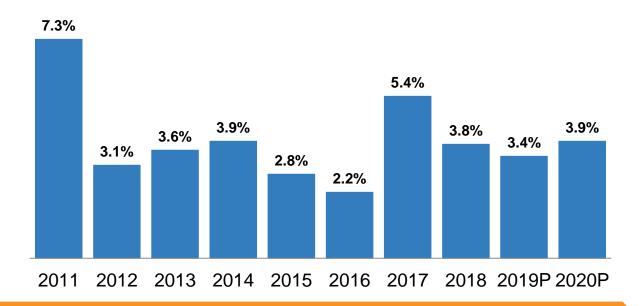


World Trade and the Economy



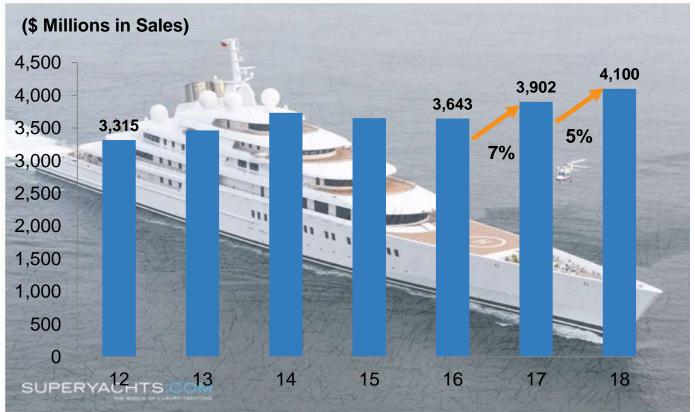


World Trade Volume Growth* 2012-2020P



Global trade growth has slowed sharply.

Total value of recreational boats sold in the U.S.





Global Risk

Top 5 Global Risks in Terms of *Likelihood*, 2015—2019: Insurance Can Help With Most



Concerns Shift Considerably Over Short Spans of Time.

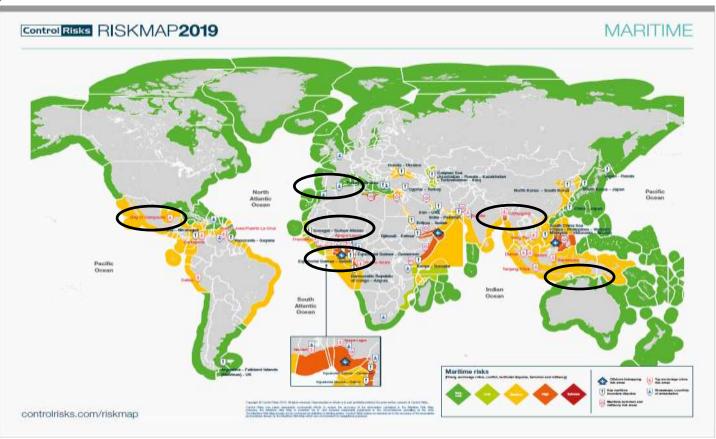


Top 5 Global Risks in Terms of *Impact*, 2015—2019: Insurance Can Help With Most



Marine Underwriters Have a Lot to Worry About.

Maritime Risk





Piracy 2019 (so far)

Gulf of Guinea remains a hotspot: 22 kidnappings in Q1





The Risk Report

The Latest in the World of Property/Casualty

The Economy

- ▲ How Long Can It Last?
- The Jobs Engine Powers Along
- ▲ Trade Wars

Marine Issues

- ▲ Lloyd's: 10th Decile
- Psst . . . Rates are Rising

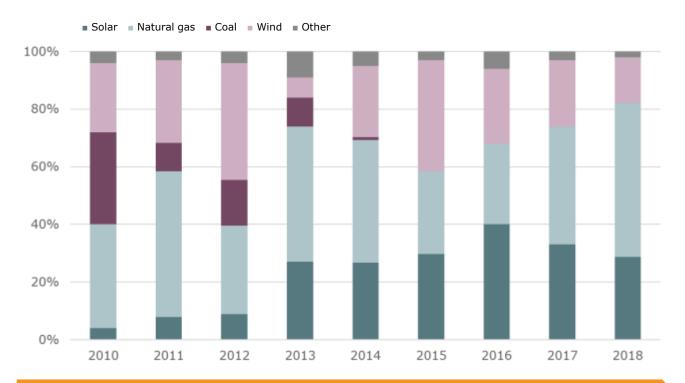
The World of Insurance

- Mondelez/NotPetya: It's War!
- Rating Variables
- Product Liability
 - Roundup \$158M
 - J&J talc \$142M
- Burger King's \$9,026 claim



Wind Power

New U.S. electricity generation by source



Coal is Out. Solar, Gas and Wind Are In.

Upside of wind energy



Wind
energy provides
over 20% of the
electricity produced in
6 states

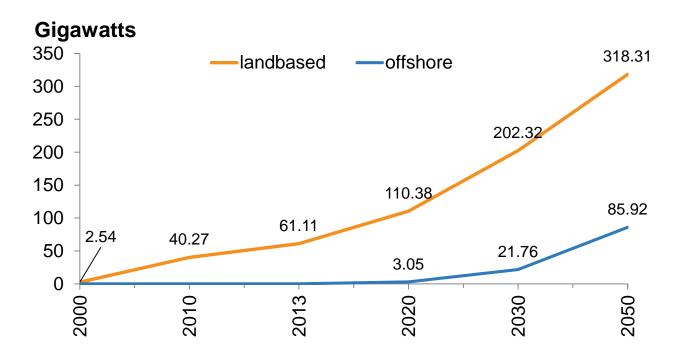
The wind industry is present in 69% of all U.S. Congressional districts

energy avoided
201 million
metric tons of
CO2 emissions

The U.S. wind industry has invested over \$142 billion in new wind projects over the last decade

Wind energy generated 6.5% of the nation's electricity in 2018, enough to power 26 million homes

Growth of Wind Power Capacity in the U.S.

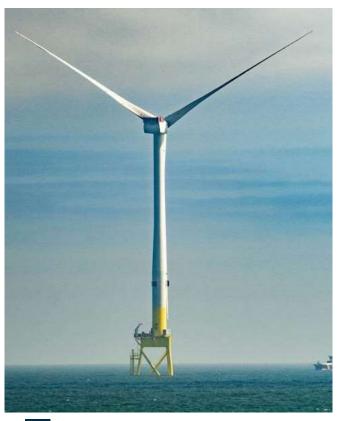


By 2050 total wind power capacity across 48 states will be 404.25 gigawatts, an increase of 180.15 gigawatts from 2030



Source: Energy.gov

Offshore wind farms pros and cons



Pros

- Offshore wind speeds are faster and steadier than on land
- Meet energy needs of highdensity coastal areas
- Renewable energy with no pollution
- Domestic energy source
- ▲ Jobs

Cons

- Expensive and difficult to build and maintain
- Effects on marine animals and birds are not fully understood
- May be unpopular with residents

Source American Geosciences Institute

Key risks faced by wind farms



- Natural disasters
- Underperformance aka "wind drought"
- Mechanical issues
- Cable issues
- Start-up delays
- Lightning damage
- Prototype technology
- Substations and power delivery

Thank You!