MARIM CONFERENCE 2017 Risk & Resilience in a VUCA World

26 - 27 July 2017 Le Meridien Putrajaya

KEY NOTE ADDRESS

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Risk and Resilience in a VUCA World

Malaysian Association of Risk and Insurance Management

Key Note Angela Kelly Chief Executive Officer, Lloyd's Asia

26 July 2017

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A Brief History of Lloyd's

> 1688

First known reference to Edward Lloyd's Coffee House

> 1730

Lloyd's dominates shipping insurance globally

> 1871

First Lloyd's Act passed making it illegal for anyone not recognised as a Lloyd's underwriting member to sign against a Lloyd's policy





The World's Leading Specialist Insurance Market



The Lloyd's Market Home to Leading Insurance Brands



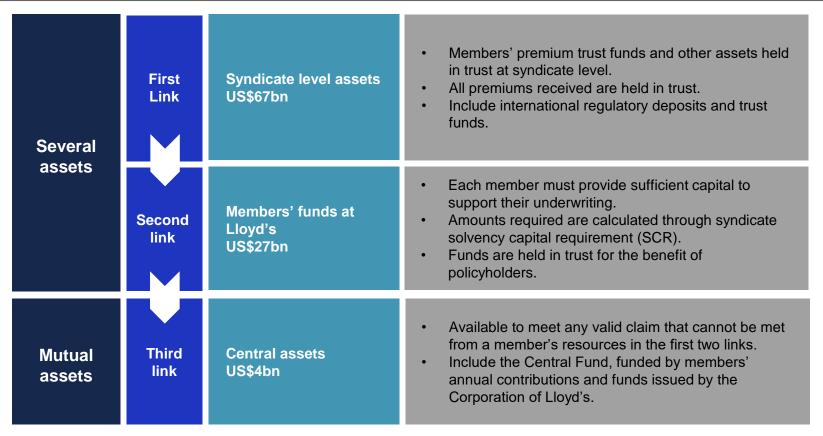
As at 30/03/16

The Lloyd's Market Structure



The Lloyd's Chain of Security

Unique capital structure provides excellent financial security to policyholders and capital efficiency to members



The Corporation is responsible for setting both member and central capital to achieve a level of capitalisation that is robust and allows members the potential to earn superior returns.

As of December 31st 2016; £1 = US\$1.23

Strength in Ratings

Syndicates operating in the market enjoy the benefit of a single market rating given by independent agencies



www.lloyds.com/annual report 2016

Lloyd's in Numbers

Syndicates of specialist underwriting expertise

84

Brokers bringing business to Lloyd's

258

US\$ billion claims paid by Lloyd's over the last six years



Coverholders offering a local route to Lloyd's

3,859 Countries and territories the Lloyd's market covers

200

Years of underwriting experience

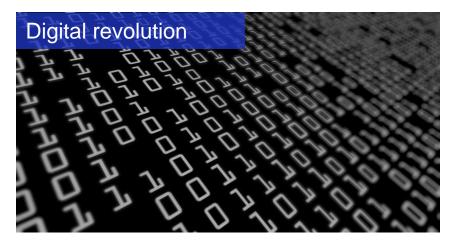
329

Four Mega Trends

Themes affecting risk generation, new and changed perceptions







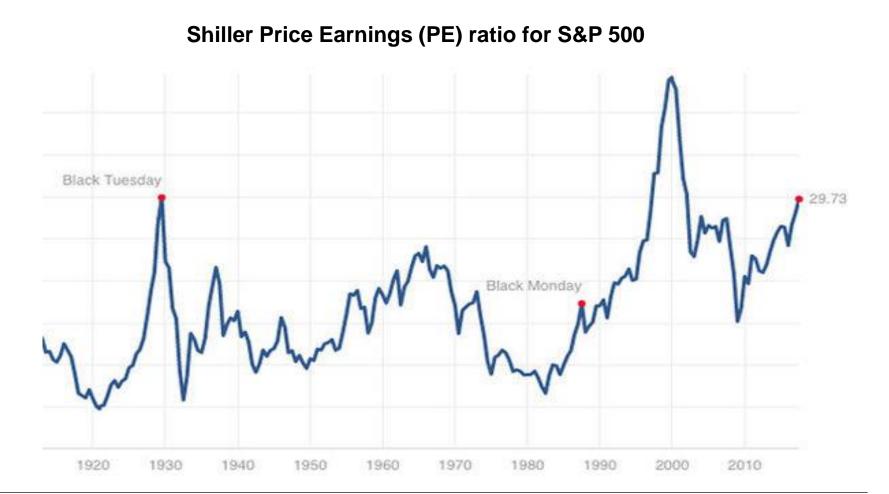


Equity Market Volatility

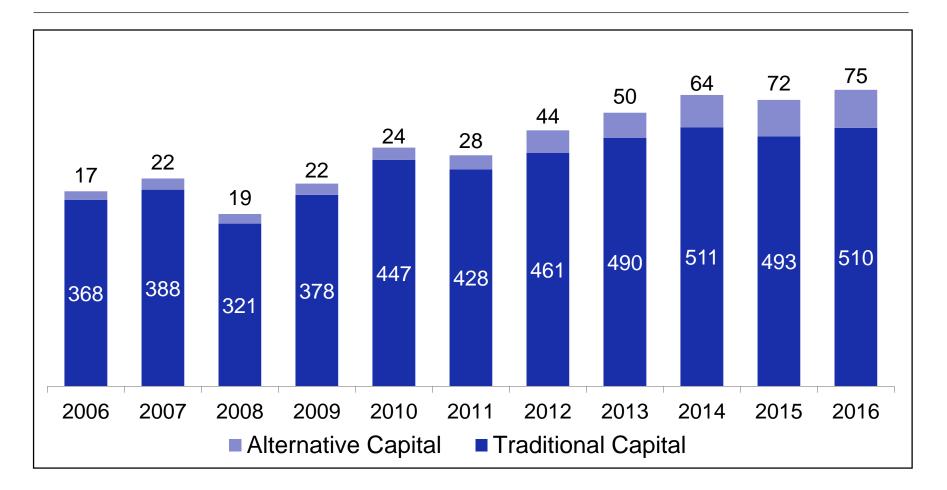
S&P Global 1200 6-Month Realized Volatility Index



Price Earnings Ratios

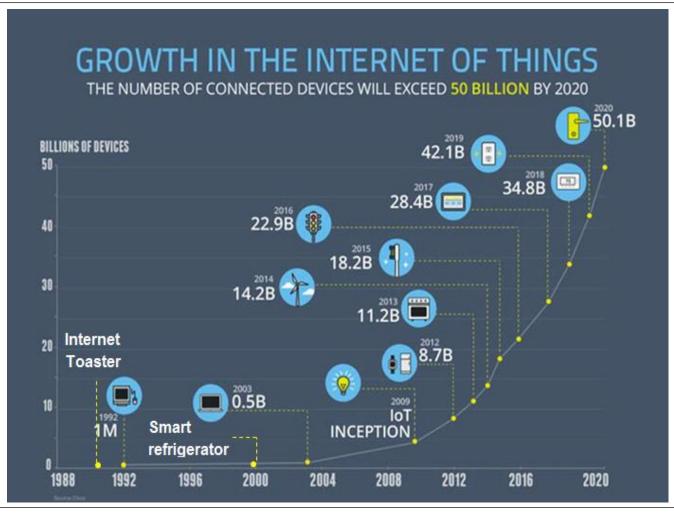


Global reinsurance capital (USD bn)



Source: Aon Benfield, Inc., "Reinsurance Market Outlook: Capacity Gap Narrows as Demand Picks up", September 2016

Trend of IoT – Exponential



Technology – Driving Transformation







Blockchain

- Quicker transaction processing
- Lower transaction and admin costs
- Increased transparency of transactions
- Improved data security

Drones

- Increased speed of claims
 assessments
- Reduced fraud
- Assess underlying assets for underwriting. quickly and effectively

Augmented/virtual reality

- Engage customers by illustrating tailored need for insurance
- Inspect underlying assets remotely
- Inspect damage remotely
- Train employees

The rise of the intangibles

EZ Alibaba.com	Alibaba.com The world's most valuable retailer owns no inventory
facebook.	Facebook The world's most popular media company creates no content
NETFLIX	Netflix The world's largest movie house owns no cinemas
skype	Skype The world's largest phone company owns no telco infrastructure
(airbnb)	Airbnb The world's largest accommodation provider owns no property
UBER	Uber The world's largest taxi company owns no taxis

Autonomous Marine Vessels

New Challenges on the Horizon



CYBER

Digitisation and Technology Driving Cyber Exposures





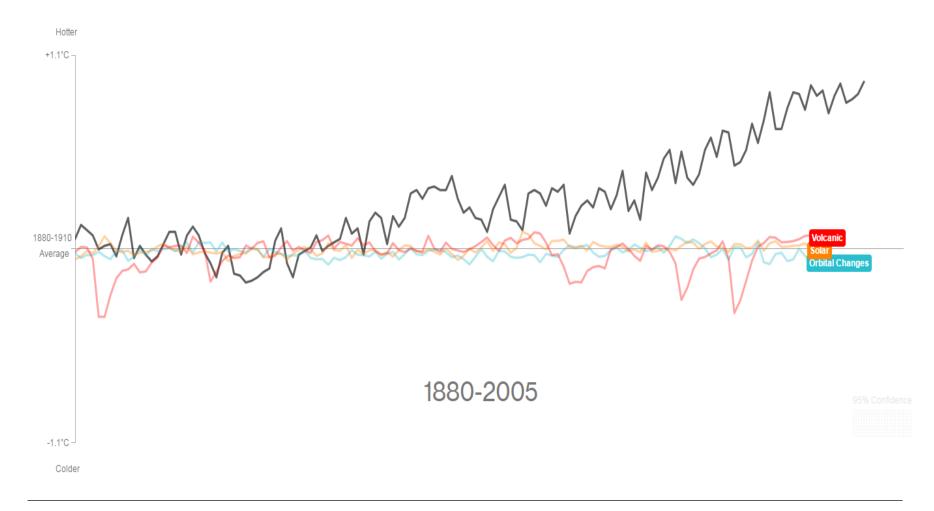
' The recent ransomware attack that started just two days ago has global impact, stopping chocolate factories in Australia, crippling ports (in India) and affecting at least one shipping line.'

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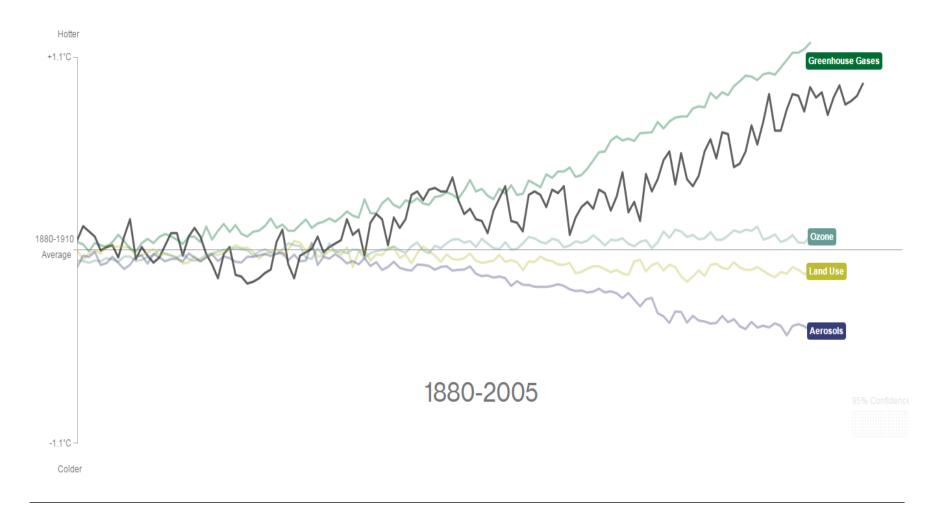
Where is warming coming from?

NASA's model - Natural factors



Where is warming coming from?

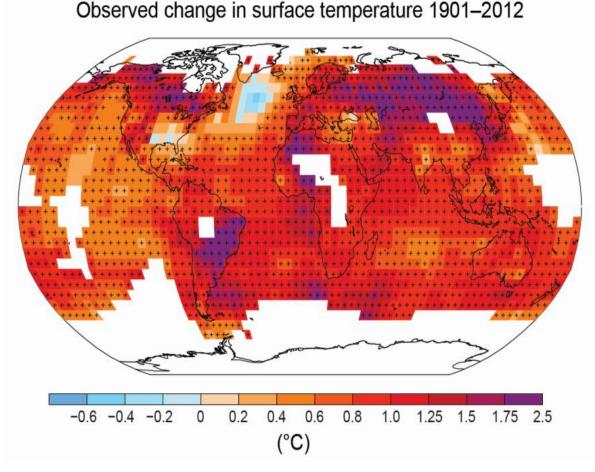
NASA's model – Human factors



Climate change

A risk multiplier rather than a peril

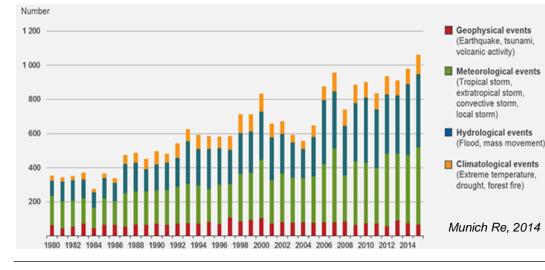
- The IPCC assesses that the current trajectory is for an additional 2.6 – 4.8°C of global warming by the end of the century
- This figure will <u>not</u> be uniform – there will be global variation

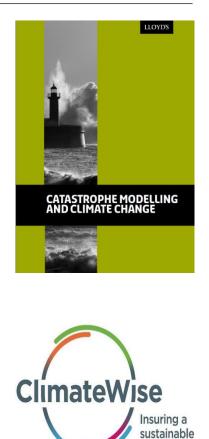


Climate change and extreme weather

Establishing impacts

- As the atmosphere becomes warmer and moister, it generates more potential energy for storms and severe weather events
- Changes in atmospheric and ocean circulation will influence storm tracks and many other aspects of the weather





future

Lloyd's City Risk Index 2015-2025

New research analyses the potential impact on the economic output of 301 of the world's cities from 18 manmade and natural threats over a ten-year period. This graphic shows the key trends identified in the Index. \$1.05trn

\$591.81bn

Human pandemic

Market crash

\$586.54bn

\$464.75bn

\$432.01bn

Flood

Earthquake

Wind storm

\$414.14bn

price shock

Oil

\$294.15bn

\$179.96bn

Sovereign default

Cyber attack

\$98.20bn

44

Terrorism

\$89.39bn

Drought

\$80.20bn

1

Power outage

\$79.16bn

Volcano

\$74.64bn

Plant epidemic

\$64.95bn

Solar storm

Total GDP@Risk: All cities \$4.56trn

Market crash represents nearly a quarter of all cities' potential losses, while just ten threats account for 91% of Total GDP@Risk:

\$26.30bn

Freeze

\$15.01bn

Heatwave

\$11.19bn

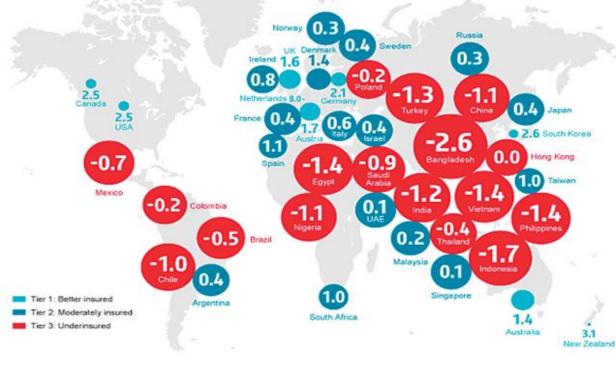
Nuclear accident

\$9.05bn

Tsunami

Insurance Penetration Gap

UNDERINSURANCE MAP



BETTER INSURED

8.0	Netherlands	2.1	Germany
3.1	New Zealand	1.7	Austria
2.6	South Korea	1.6	UK
2.5	US	1.4	Australia
2.5	Canada		

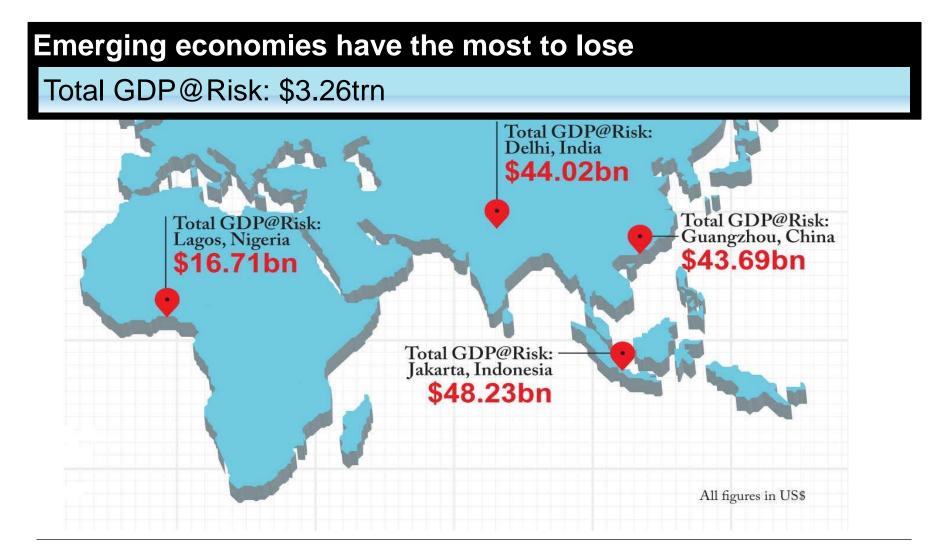
MODERATELY INSURED

1.4	Denmark	0.4	Japan
1.1	Spain	0.4	France
1.0	South Africa	0.4	Sweden
1.0	Taiwan	0.3	Russia
0.8	Ireland	0.3	Norway
0.6	Italy	0.2	Malaysia
0.4	Argentina	0.1	Singapore
0.4	Israel	0.1	UAE

UNDERINSURED

0.0	Hong Kong	- 1.1	Nigeria
-0.2	Poland	- 1.2	India
-0.2	Colombia	-1.3	Turkey
- 0.4	Thailand	- 1.4	Egypt
-0.5	Brazil	- 1.4	Philippines
-0.7	Mexico	- 1.4	Vietnam
-0.9	Saudi Arabia	-1.7	Indonesia
- 1.0	Chile	-2.6	Bangladesh
-1.1	China		2.22

Key Trends



South East Asia

Top five threats across 15 cities



Wind Storm \$68.29bn GDP@risk



Market Crash \$60.80bn GDP@risk



Pandemic \$30.74bn GDP@risk

17.71% of Annual GDP

\$300.20bn GDP@risk



Earthquake

ke \$30.06bn GDP@risk



Flood \$22.48bn GDP@risk

Malaysia

Top five threats

Market crash	Market Crash	\$2.75bn GDP@risk	60.19%
Human pandemic	Pandemic	\$0.63bn GDP@risk	13.77%
Volcano	Volcano	\$68.29bn GDP@risk	8.64%
Plant epidemic	Plant Epidemic	\$30.06bn GDP@risk	5.20%
Sovereign default	Sovereign Default	\$22.48bn GDP@risk	2.87%

Risk & Resilience in a VUCA World



