

Back to the Future

Thriving in a World of Digital Disruption





Agenda

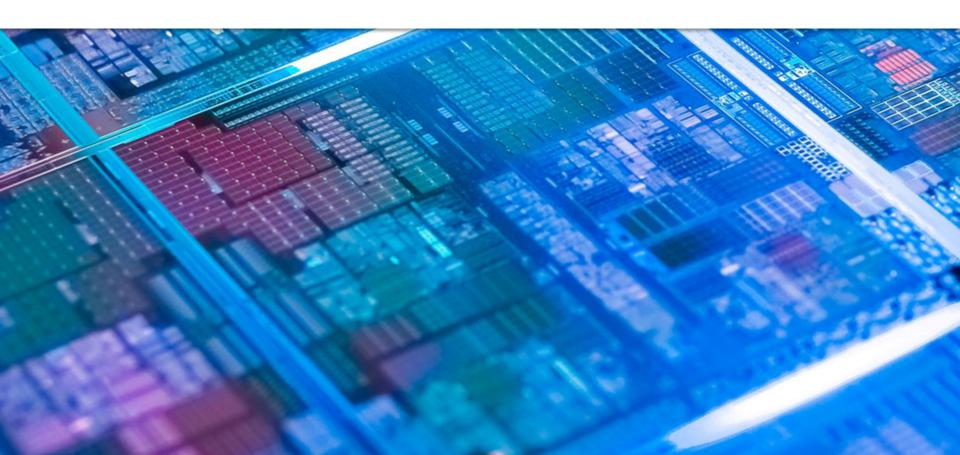
1) Industry snapshot

2) The changing role of the insurer

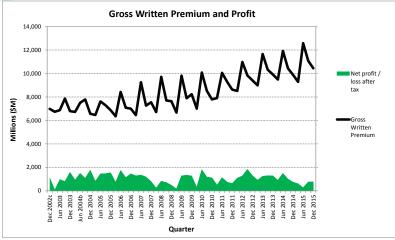
3) Three technological developments

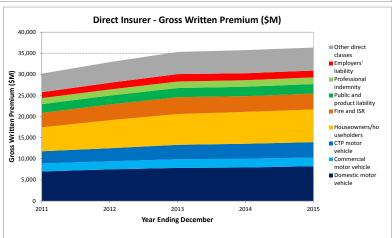
4) Thriving / surviving in the new world

1) Industry Snapshot







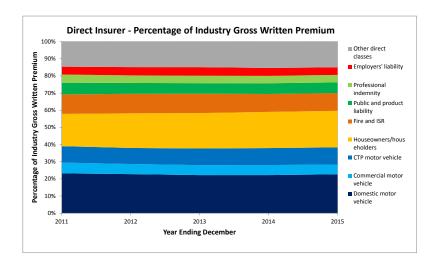


• Gross written premium:

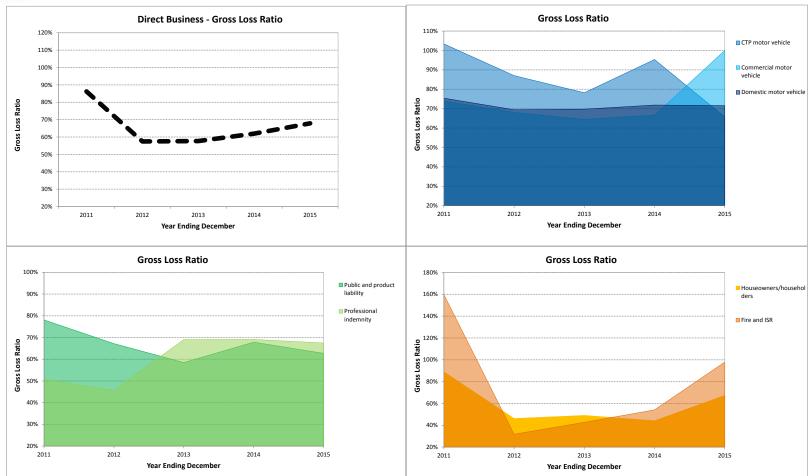
- For direct insurers GWP has increase by approximately 5% p.a. since 2006
- No growth since 2003 for reinsurers

Profit:

- Zero growth over the period analysed
- 2014 profit \$4.1Bn, 2015 profit \$2.4Bn.







2) The Changing Role of the Insurer





Historically:

The Changing Role of the Insurer

Typically only responds in the event of a loss

Product design is fairly rigid

Limited contact with the customer

Risks stemming from global activity are not a key focus

3) Three Technological Developments

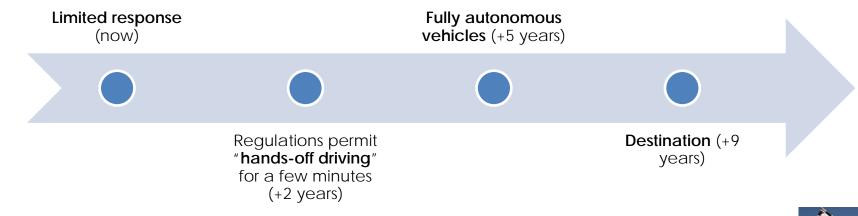


Driverless Cars





Are we there yet?

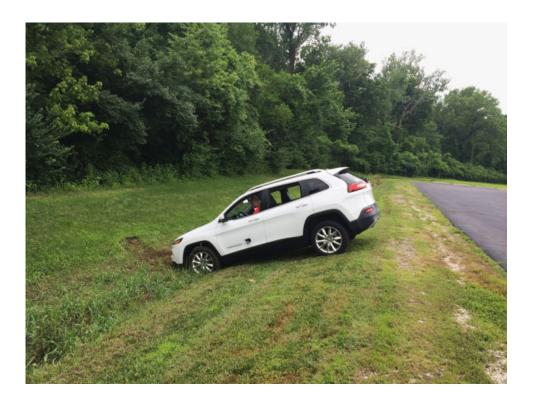




Current challenges

Include:

- Improvements in software and hardware
- More detailed maps
- Better sensors
- Security
- Legislative environment
- Ethical decision making





Current challenges - ethical decision making



You are driving down a two lane road at 90km/h.

A car is coming head-on towards you.

There are only two possible actions you can take:

- Drive straight and hit the oncoming car potentially sacrificing your own life.
- 2) Swerve and hit a group of pedestrians on the footpath.

Which option would you choose?



The key players





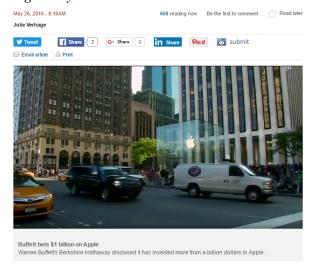








Apple cars, not iPhones, could be tech giant's next big money-maker



Don't expect Apple's <u>\$US1 billion (\$1.39 billion) investment</u> in Chinese ride-hailing startup Didi to be its last

Morgan Stanley analysts led by Katy Huberty and Adam Jonas recently took a look at Apple's spending on incremental research and development, and found something shocking.

Not only is the creator of the iPhone forking out more now than it did when it launched its most successful product. It's also burning more cash than the top 14 car makers combined, and that's an industry deep in transformation.

In the news

Investing in innovation

- Apple spent \$5 billion USD on additional research and development from 2013 to 2015
- Apple recently invested \$1 billion USD in Chinese ride – hailing start-up "Didi"
- Morgan Stanley (MS) analysts are quoted as saying the investment signals an interest in shared rather than owned vehicles
- Apple's revenue is forecast to be \$400 billion from shared vehicles in 2030



Implications for society





• Who is responsible? Fault • What is the impact on claim frequency and claim severity? Systemic events • How will this be used? Data Are driverless cars a threat to the industry? Premiums

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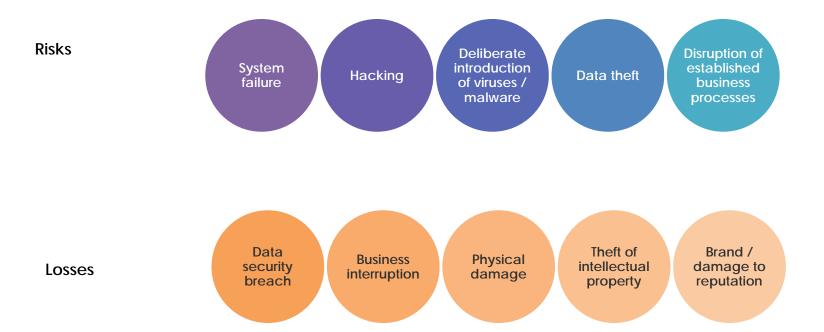
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Wider Information Technology Risks





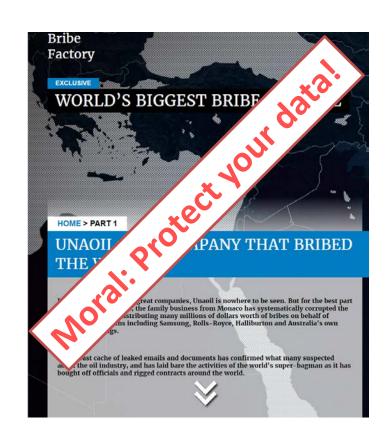
In the News



Data theft!

Blackmail!

Leak!





In the News





6.5 million encrypted passwords originally thought to be hacked

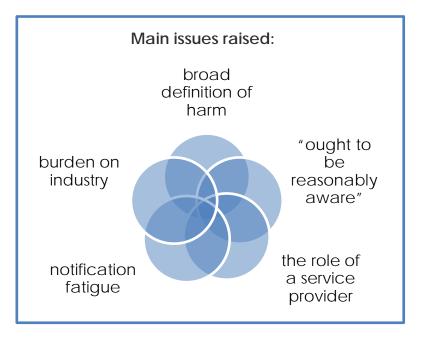
May 2016 - LinkedIn now thinks the true number of account details obtained was more than 117 million

Moral: Keep your security measures up to date!



In the News - Mandatory data breach notification scheme

 An organisation must notify customers, the Privacy Commissioner and potentially the media where they suspect a breach to have occurred



• A **serious breach** is defined as unauthorised access to, disclosure or loss of customer information which generates real risk of serious harm to individuals.

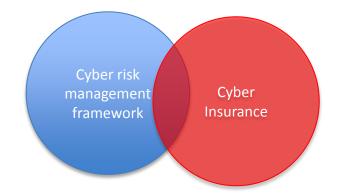


Cyber Insurance

Allianz Cyber Protect (base product)

Cover includes:

- ✓ Data breach liability personal and corporate data
- ✓ Data breach costs including notification and forensic IT costs
- ✓ Network security liability for compromised systems including denial of service attacks
- ✓ Business interruption
- ✓ Hacker theft cover based upon theft of funds
- ✓ Restorations costs for data and programs
- Crisis communication to mitigate reputational damage





Cyber Insurance

Potential rating factors:

Industry

- Impacts type of data held
- Reliance on technology

Company Specific

- Turnover
- Number of transactions / customers
- Staff training
- Approach to risk management

IT Specific

- Virtual and physical security
- Level of data encryption
- Data retention
- Outsourcing
- Number of connected devices that may have lax controls



Opportunities

Large potential market

Build strong relationships with businesses

Apply risk management principles to third parties

Move up the value chain and provide strategic advice



Challenges



The Internet of Things (IoT)





What is the IoT?

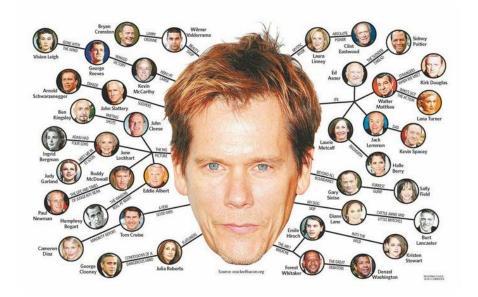




15 billion items are connected to the Internet today

"The Internet of insecure things" – it only takes one weak link

- Security is key
- Need for new insurance covers
- Heightened contagion risk
- Richer and more accessible data

















How insurers can unlock the value in the IoT

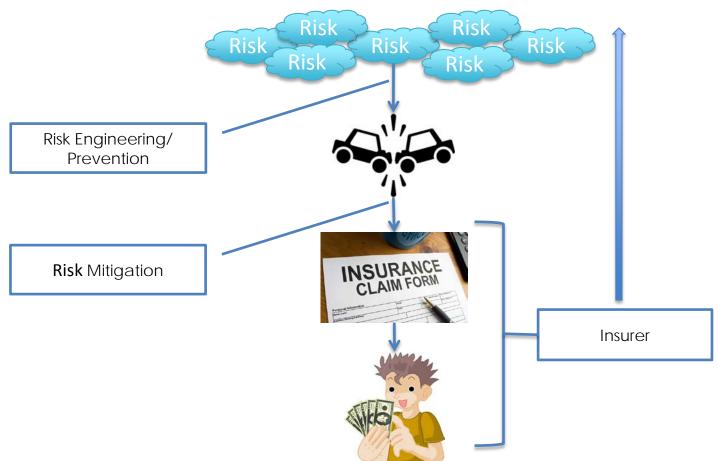


4) Thriving / surviving in the new world





1) Move up the Value Chain





2) Focus on Customer Service and Innovate



- Re-examine the needs of individuals and businesses in a heavily technology reliant and interconnected world.
- Increased focus on customer service
 - People love to rate experiences and voice their concerns
 - Increase trust how?



3) Consider risks at a global level

Future direction of the industry

Risks arise at a global level

Judicial interpretation

Correlation between risks

