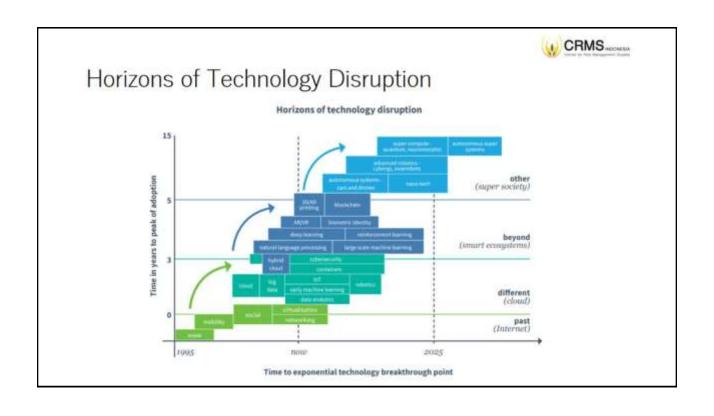
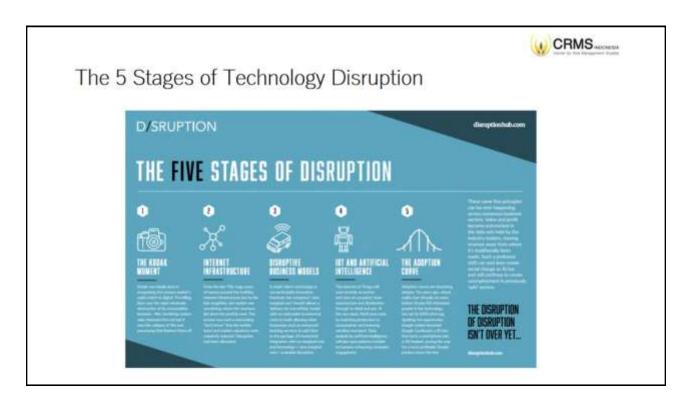




# Agenda

- Horizons of Technology Disruption
- Insurance Technology Disruption
- Information Security Risks
- Cyber Risk trends
- Cyber Risk resilience
- Way Forwards







# The Seven Technologies Disrupting The Insurance Industry

- Infrastructure
- · Online sales technologies
- Advanced analytics (AA)
- Machine Learning
- The Internet of Things
- · Distributed Ledger technology
- Virtual Reality (VR)

Customers / Consumers

Markets / Industries

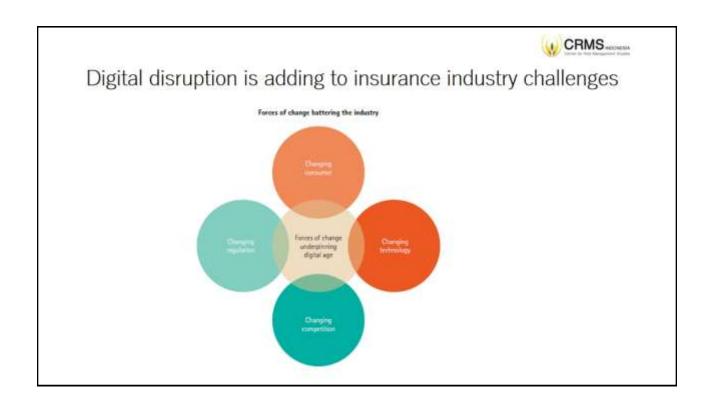
Organizations / Process



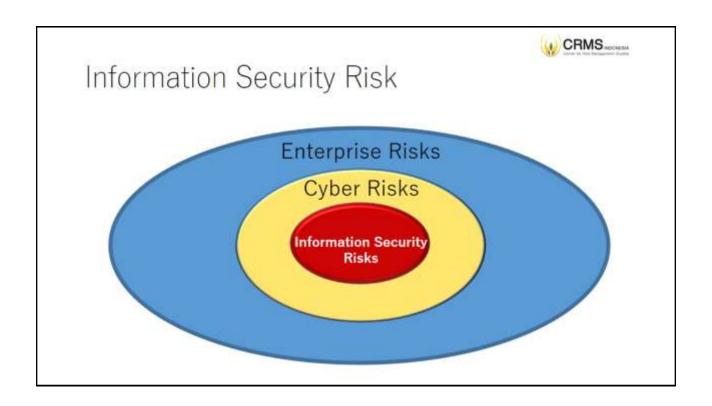
## Technology Disruption?

Technology by itself is not the disruptor, but not being customer-centric is the biggest threat to any business

- NETFLIX did not kill blockbuster, Ridiculous late fess did.
- UBER did not kill the taxi business. Limited access and fare control did.
- APPLE did not kill the music industry. Being forced to buy full-length albums did.
- AMAZON did not kill other retailers. Poor customer service and experience did.
- AIRBNB isn't killing the hotel industry. Limited availability and pricing options are.



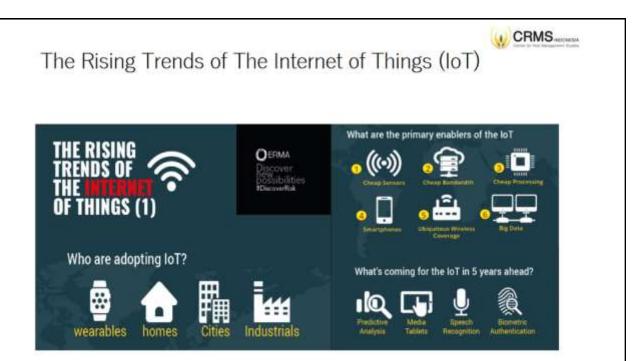


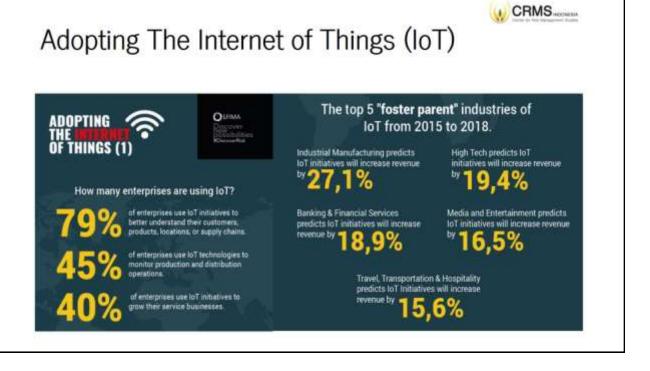


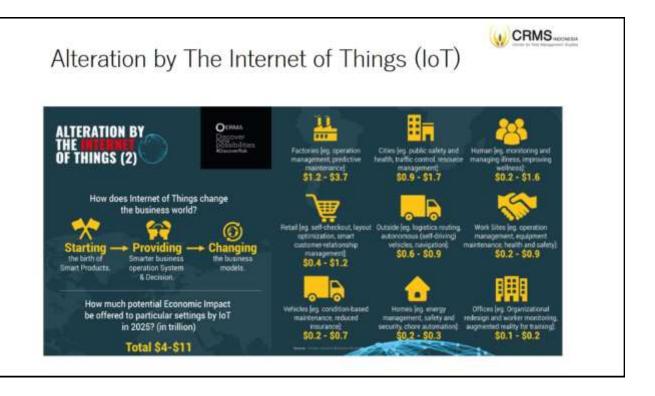


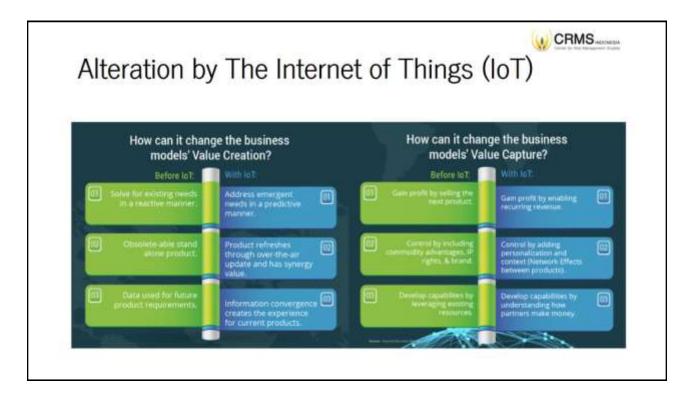
## Information Security Risk Management

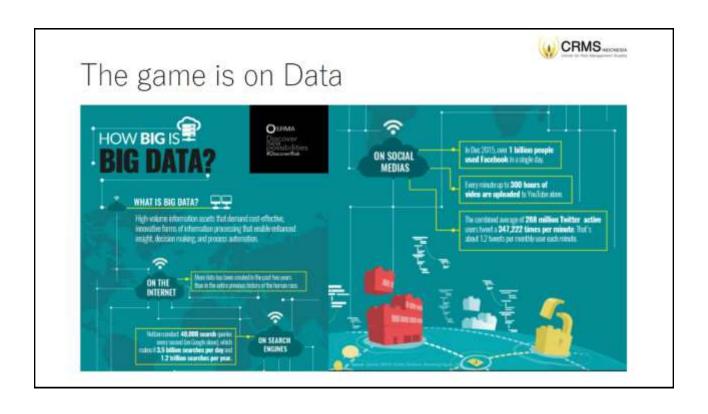
- A major subset of Enterprise Risk Management process
- Which includes both the assessment of information security risk to the institutions,
- As well as the determination of appropriate management actions and established priorities for managing and implementing controls ···
- mostly about data protection ··· GDPR

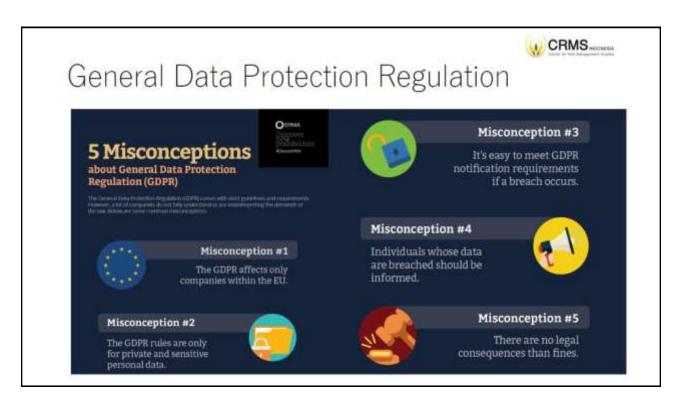




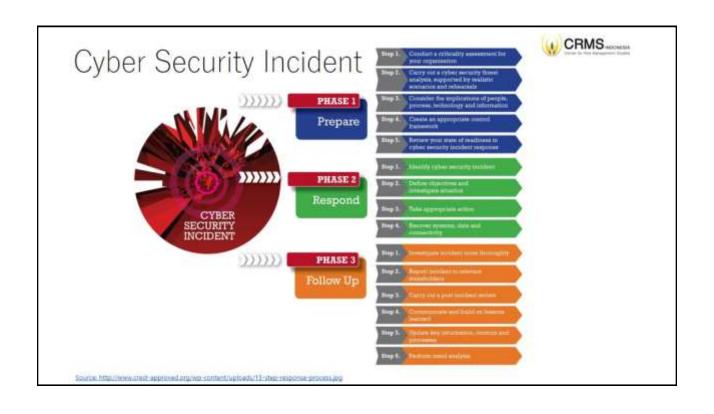












Source: Allianz Global Corporate & Speciality, 2015.



# Cyber insurance continues to evolve... Stop trends in cyber insurance - Exclusions in traditional policies will become more commonplace. Standalone cyber product to be the main source of lability cover - Cyber concept and wordings will be tested, potentially resulting in litigation - Cyber concept and wordings will be tested, potentially resulting in litigation - Cyber insurance market needs volume and diversification, More segmentation in future with insurers specialising in certain sectors - Lack of education is an abstack to growth-buth in terms of businesses' understanding of exposures and underwriting knowledge - In the event of a cyber security incident a speedy response and use of third party exports, can mitigate buses Source: Allianz Global Corporate & Speciality, 2015.

# Cyber Security and Protection



Figure 1. Obstacles to meeting demand for cyber coverage





#### Insurer's perspective

- Dearth of data
- · Cyber attacks keep evolving
- · Potential catastrophic accumulation
- · Tunnel vision in coverages offered



#### Consumer's perspective

- Buyers often don't understand cyber risks or their insurance options
- Cyber risk is spread over a wide range of coverages
- Cyber policies lack standardization
- · The legal landscape remains in flux

Source: Deloitte Center for Financial Services.

Deloitte University Press | dupress.deloitte.com

# Cyber Resilience





### HOW TO ACHIEVE CYBER RESILIENCE IN 7 STEPS



#### STEP 1 SYSTEM HYDRING

Exception or process for excepting standard systems byganna by



#### STEP 2 DEVELOP A PLAN

Create a const-functional team of senior management to plus for cyber security events and consider hypothetical



#### STEP 3 MAP OUT RISK PROFILE

Study cyber potterns and attack modes to develop a school opproach to protecting company assets.



#### STEP 4 ASSESS & MEASURE

facus on rough figures, not practice estimates and avaid analysis poralysis.



# STEP 5

Invest is risk mitigation measures to protect company meets of present risk.



# STEP 6 CYBER INSURANCE

Obtain cyther insurance to provide contingent copital and specialized mathematical in the event of on ottack.



#### STEP 7 GET STARTED

A rough plan is okby – becoming realized to cyber risk starts with a single step.





## Looking forward to next Risk Beyond 2018 | Bali 6-7th Dec 2018





INTEGRATED GRC
IN A NEW DIGITAL WORLD

- · Artificial Intelligence and Block chain
- · Fin Tech and its trends
- · Cyber securities
- · The disruption is not over yet
- ISO 31000:2018 and its integration with ISO 27001 and GDPR
- About GDPR Concept to Practice Sharing
- Governance, Risk Management and Compliance

