

# 8<sup>th</sup> SAS General Insurance Conference Data, Data, Everywhere...

**SAS GI Committee** 

# Singapore's Got Talent

#### Singapore's Got Talent

# Introduction

- 3rd Singapore's Got Talent contest
- Give a chance to Singapore's students!
  - Open the floor to students for 1 hour
  - SAS believes that Singapore's Got Actuarial Talents!
  - 21 March: students from all Singapore Universities invited to participate
  - Topic: Identify protection gaps in society which may be solved with Data
  - 28 April: 4 finalists selected and coached by SAS GI Committee
  - GI Conference: Final Four → Winner selected by <u>All Conference Delegates</u>
  - Prize Ceremony: Winner unveiled at the Conference closing
  - \$300 prize

### Education and Career Committee initiatives

- Raise university students visibility
- Improve public speaking: Speakers & Influencers

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# **The 4 Finalists**

#### **Ong Wei Chang**



Drone Insurance

ongweichang@gmail.com



Paul Wang **Huang Guoyu** 



**Travel Insurance** for Urban Commuters



#### **Richard Li**



**The Motor Revolution** 





TECHNOLOGICAL UNIVERSITY

#### **Ma Xinning**



**Reputation risk** through **Cyber Insurance** 







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# **Grand Finale Schedule**

# Presentations

- 1. Ong Wei Chang: Drone Insurance (10 min.)
- 2. Paul Wang/Huang Guoyu: Travel Insurance for Urban Commuters (10 min.)
- 3. Richard Li: The Motor Revolution (10 min.)
- 4. Ma Xinning: Reputation risk through Cyber Insurance (10 min.)

# ■ **Q&A** (10 min.)

- Questions from SAS GI Committee judges
- Voting Process (1 min.)
   Lunch!

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#### **Ma Xinning**



**Reputation risk** through **Cyber Insurance** 







# Ong Wei Chang – Drone Insurance Drones Overview

- Main segments Defense, Civilian
- 2015 global estimates for Civilian Market
  - US\$ 1.7 billion
  - 4.3 million units shipped
- Forecasts for civilian market



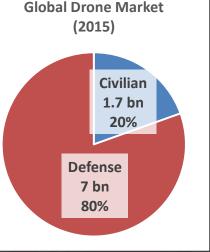
- Business Insider: 19% CAGR from 2015 to 2020

Impact: civilian drones has immense growth potential

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Sources: Business Insider, Fortune

# Ong Wei Chang – Drone Insurance Driving Factors

 Current regulatory landscape – permit based framework in major jurisdictions

Country	Date	Recreational	Commercial
Singapore	Jun 2015	Not needed unless >7kg	Operator/activity permits from CAAS
China	Nov 2014	Not needed unless >7kg	License from CAAC
USA	Dec 2015	Drone registration with FAA for drones that weighs 0.25kg - 25kg	
UK	Nov 2009	Not needed unless >20kg	Permission from CAA

Sources: aviation agencies of Singapore, China, USA and UK

 Upcoming – Florida to pass bill on 1<sup>st</sup> July 2016 to make drone operators/owners liable for damages

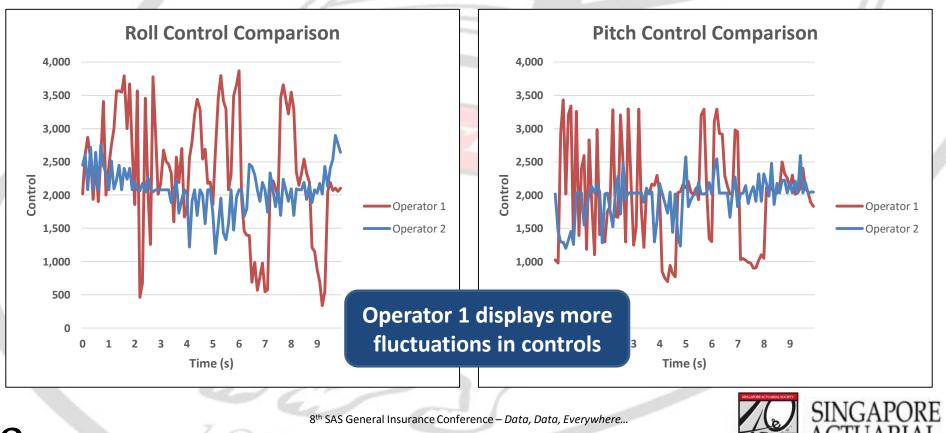
Impact: likely for drone insurance to be compulsory

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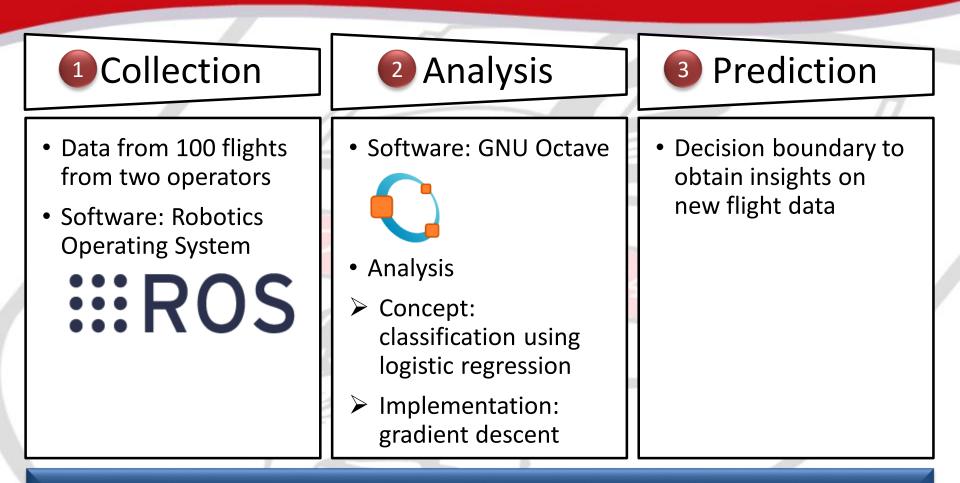
# Ong Wei Chang – Drone Insurance Leveraging Data – Flight Control

• Overview – controls of two operators



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# Ong Wei Chang – Drone Insurance Leveraging Data – Flight Control

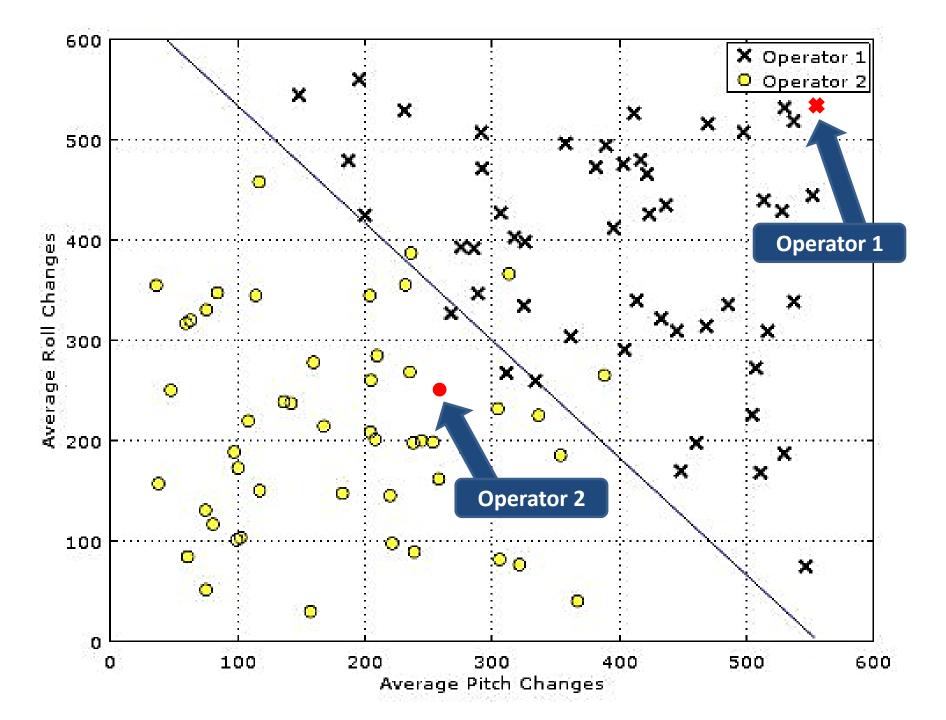


Impact: customised pricing based on operator

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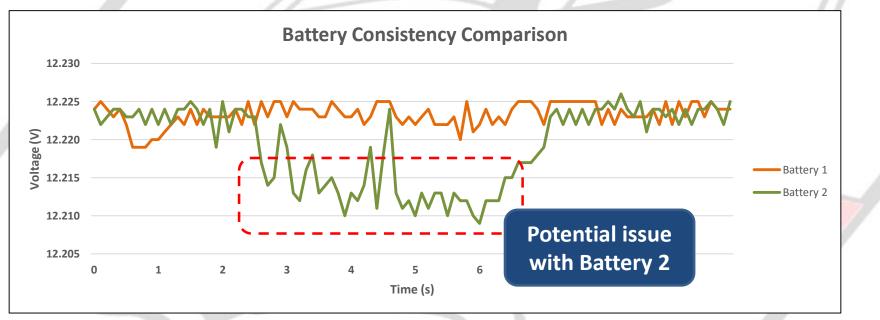
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# Ong Wei Chang – Drone Insurance Leveraging Data – Battery Health

### • Relevance – batteries a key reason for drone incidents



#### Impact: customised pricing based on equipment

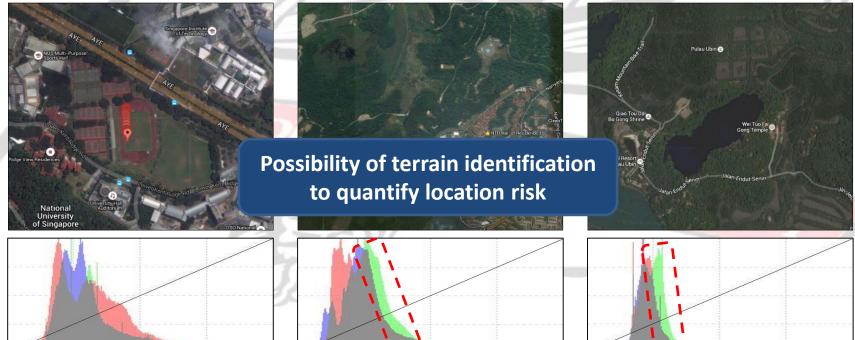
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# Ong Wei Chang – Drone Insurance Leveraging Data – GPS Position

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### • Relevance – risk is related to terrain of location



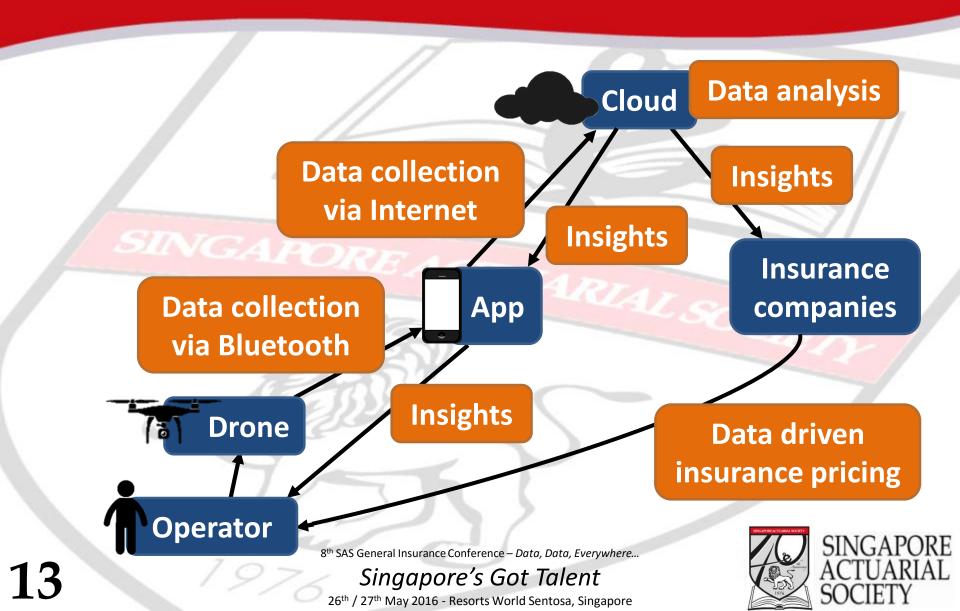
#### Impact: customised pricing based on location

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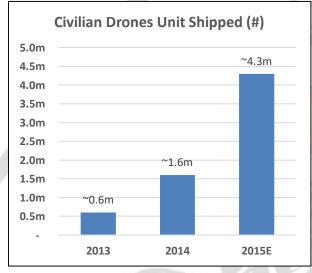
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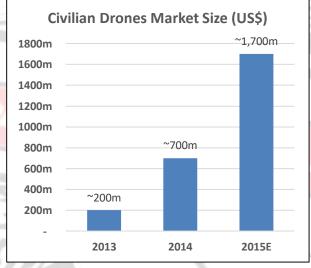
### Ong Wei Chang – Drone Insurance Bigger Picture – Building an Ecosystem



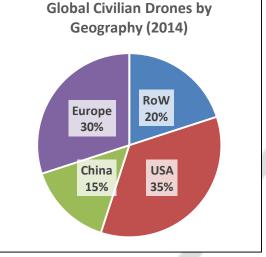
## Ong Wei Chang – Drone Insurance Global Market Figures



Source: Emberify



#### Source: Emberify



#### Source: Emberify

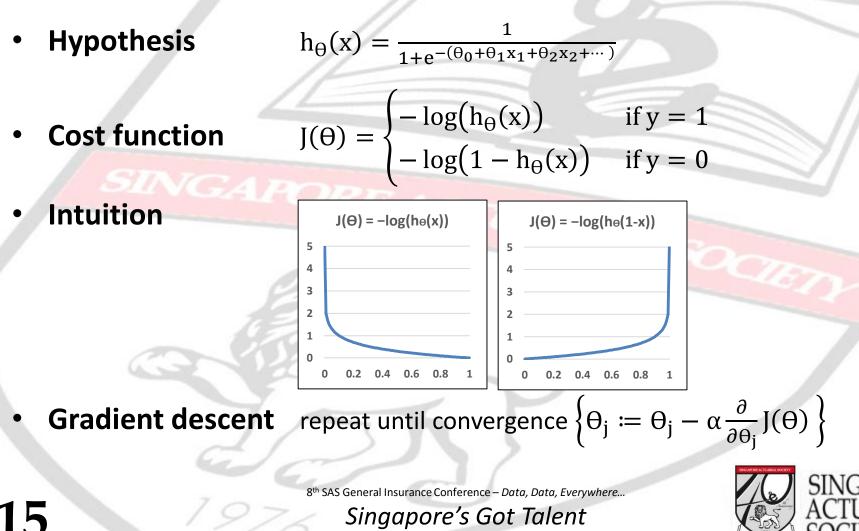
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## Ong Wei Chang – Drone Insurance Data Analysis



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Travel Insurance for Urban Commuters



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The Motor Revolution



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Reputation risk through Cyber Insurance







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# Paul Wang, Huang Guoyu – *Travel Insurance for Urban Commuters* Singapore's MRT

- Singapore's Massive Rapid Transit (MRT) has grown significantly in the past ten years:
  - Rail length increased by 50%
  - Train capacity increased by 100%
  - Circle Line and Downtown Line introduced 48 new stations
  - East-West Line and North-South Line mark their 30th birthdays next year

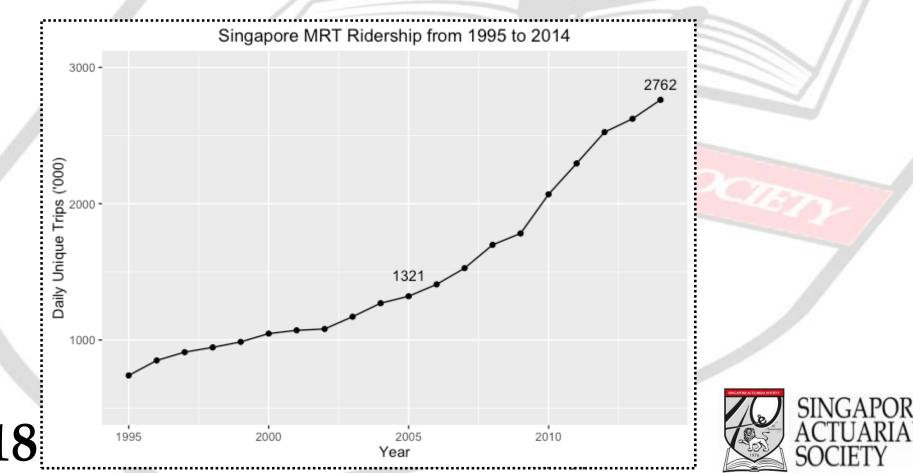
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Paul Wang, Huang Guoyu – Travel Insurance for Urban Commuters Growing Passenger Population

 Growing even more rapidly is the number of passengers taking the MRT system each day



# Paul Wang, Huang Guoyu – Travel Insurance for Urban Commuters Problem: More Passenger + Aging Infrastructure

- Analysing news articles and incident reports, we found that:
  - 436 unique disruptions reported from 2011 to present
  - Average duration > 30 minutes
  - 76% of incidents from East-West Line and North-South Line

Data Source: http://failrailsg.appspot.com/

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### Paul Wang, Huang Guoyu – Travel Insurance for Urban Commuters **Insufficient Protection**

- The current protection against disruption is insufficient
  - Non-personalised excuse slip
  - No monetary compensation for wasted time



Yours sincerely

Tachin



S/No. 20220

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# Paul Wang, Huang Guoyu – Travel Insurance for Urban Commuters Goal and challenges

- Goal: Provide "delay insurance" to urban commuter for protection against MRT disruptions
- Present Challenges:
  - Access to detailed data of MRT usage in terms of passenger
  - Access to means for identifying loss events
  - Effective transaction of premium and claims

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## Paul Wang, Huang Guoyu – Travel Insurance for Urban Commuters A Solution to All



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**ez**link



# Paul Wang, Huang Guoyu – Travel Insurance for Urban Commuters Rich Data for Experience Analysis

- Challenge: Access to detailed data of MRT usage in terms of passenger
- Currently, smart cards (EZ-Link, NETS, ...) are able to:
  - record time, origin, transitions, destination for each trip
  - generate millions of data points each day

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# Paul Wang, Huang Guoyu – Travel Insurance for Urban Commuters Big Data for Loss Event Identification

- Challenge: Access to means for identifying loss events
- Solution: Data Mining on smart card records
  - expected travel time between two points can be estimated because of law of large number
  - abnormally long trips are identified
  - cross-validate with SMRT and SBS for confirmation

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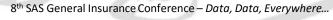
# Paul Wang, Huang Guoyu – Travel Insurance for Urban Commuters An Integrated Transaction System

- Challenge: Effective transaction of premium and claims
- Solution: Smart card for "paperless" transaction
  - Automatic deduction/top-up upon tapping
    - Check balance easily using a variety of devices











Paul Wang, Huang Guoyu – Travel Insurance for Urban Commuters Proposed Product Structure

- Parties
  - Insurer: SMRT and SBS
  - Beneficiary: Passengers
- Coverage
  - MRT disruptions from all causes

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Paul Wang, Huang Guoyu – Travel Insurance for Urban Commuters Proposed Product Structure

- Premium
  - Payable upon leaving the platform
  - A percentage of fare proportional to distance traveled
- Underwriting
  - combining data mining and official incident report to identify additional travel time caused by disruptions

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Paul Wang, Huang Guoyu – Travel Insurance for Urban Commuters Proposed Product Structure

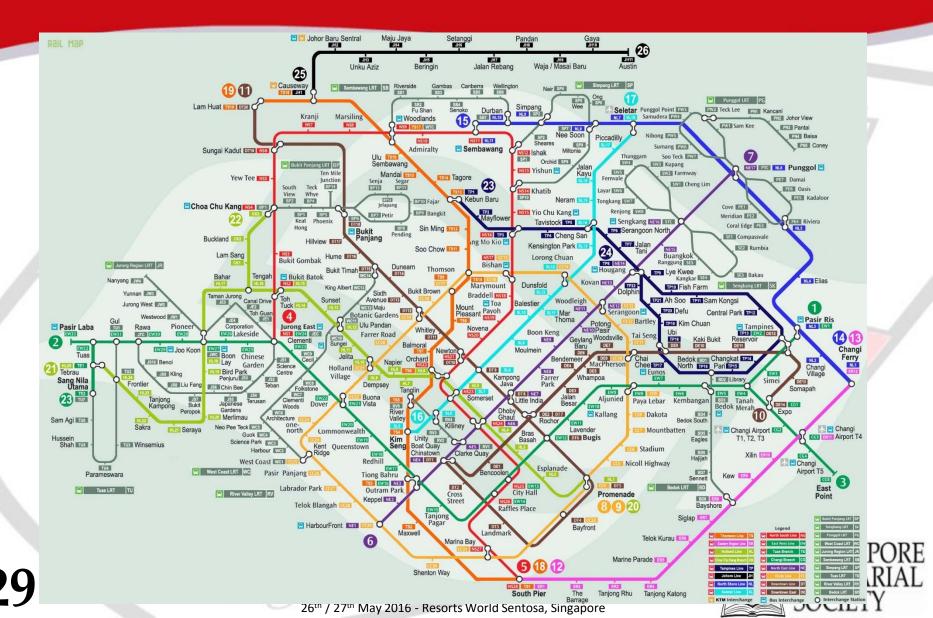
- Claim
  - Collectable as an automatic top-up at the card reader before next ride
  - Claim amount proportional to additional travel time
  - Log in with ID on the smart card to check claim payment and forward excuse slip to supervisor



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### Paul Wang, Huang Guoyu – *Travel Insurance for Urban Commuters* **Future Trends**



# Paul Wang, Huang Guoyu – *Travel Insurance for Urban Commuters* Connected = Opportunity + Challenge

- Opportunity
  - Reduce chance of large loss events
  - Extend coverage to other modes of public transportation
- Challenge
  - Heterogeneous user behaviour
  - Imperative to understand transition pattern and distribution of passenger

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# Paul Wang, Huang Guoyu – *Travel Insurance for Urban Commuters*Conclusion

- Smart card data present invaluable opportunity for the identification of loss events in urban commute
- Payment with smart card allows smooth, cashless transaction of premium and claims
- "Delay insurance" for urban commuter is one of the potential applications of the smart card infrastructure

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Reputation risk through Cyber Insurance







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# Richard Li – The Motor Revolution ELECTRONIC ROAD PRICING (ERP)

Yes

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I feel bad about getting

this gadget for free...

is there any way

I can pay for it?

when the ERP starts!

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# Richard Li – *The Motor Revolution* **Next Generation ERP**



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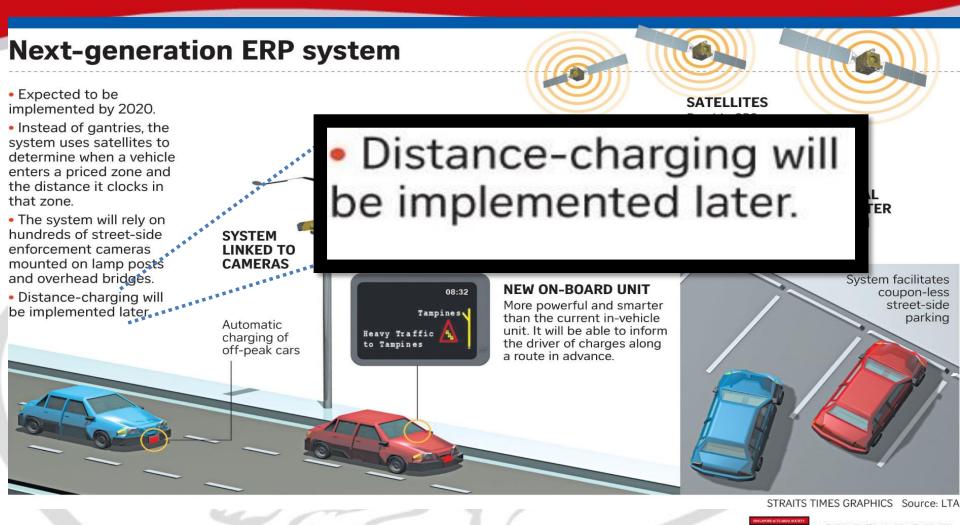
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# Richard Li – *The Motor Revolution* **Next Generation ERP**

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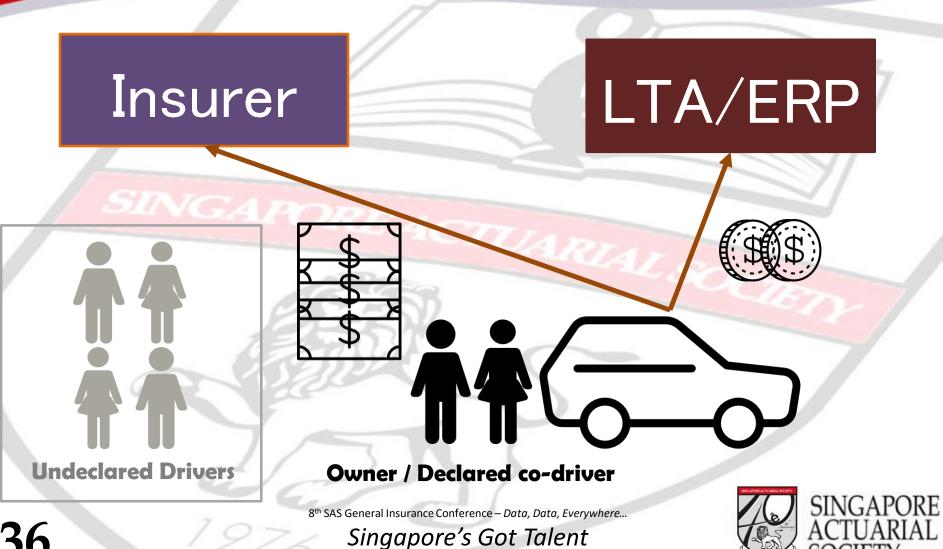
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### Richard Li – The Motor Revolution **Current Insurance Model**



Richard Li – The Motor Revolution Changes Taking Place

 Many people will not have their own cars. Instead, they will rent or carpool.
 Insurers increasingly want to retrieve journey times, distances and speeds.
 More carpooling means insurers are unable to know who is driving the car.

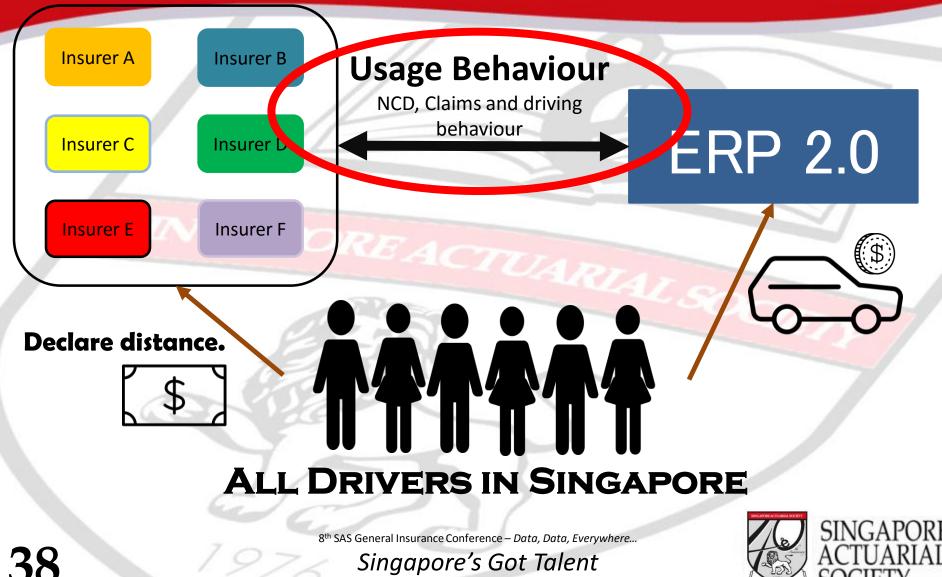
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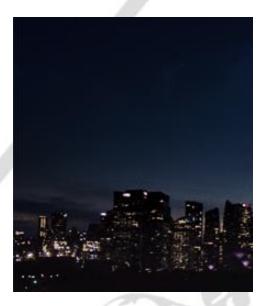
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# Richard Li – The Motor Revolution Revolutionised Motor Insurance

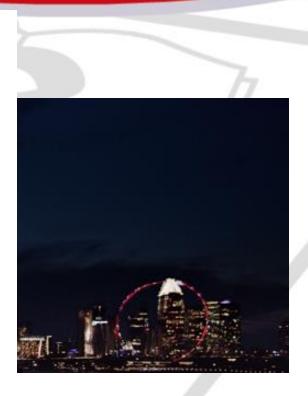


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## Richard Li – The Motor Revolution What Singapore will be in the future







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## Richard Li – The Motor Revolution **Revolutionised Motor Insurance**



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- asses and damages, createring ehand
- Third-party damages Nevrigifier and prevenues knowg polefoni whifferent

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Richard Li – *The Motor Revolution* 

- Valid Driving License with no suspensions in force.
- Premiums are set based on:
  - Driving experience
  - Accident history
  - Driving habits

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# Richard Li – The Motor Revolution Driving Habits

- Based on real time information by the onboard computer and central server.
- Insurers will retrieve information necessary for analysis from LTA.
  - Speed
  - Distance
  - Time
- Analysis will determine premium of next month. \*\* SAS General Insurance Conference - Data, Data, Everywhere...



Richard Li – The Motor Revolution On-Board Unit

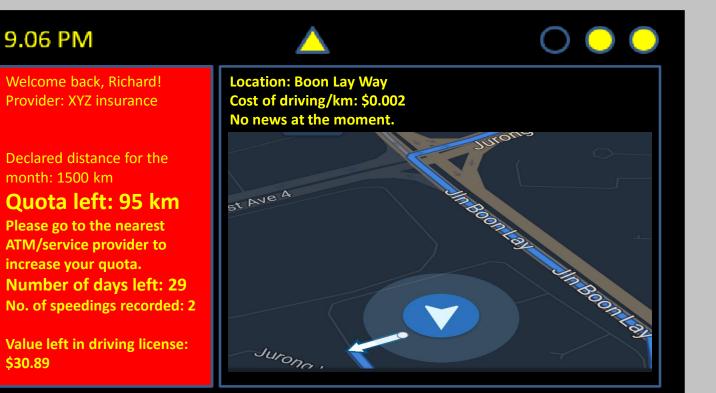
Fingerprint scanner

# 9.06 PM Please scan your fingerprint to start the engine. **"UNIVERSAL COVERAGE FOR ALL SINGAPOREANS."**

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## Richard Li – The Motor Revolution On-Board Unit



#### "REMEMBER YOUR PREMIUM DEPENDS ON HOW YOU DRIVE."



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## Richard Li – The Motor Revolution Sample Price Plan and Method of Payment



- Payment can be per-month or per-day, through ATM/internet transfer/AXS machines.
- Insurers will update drivers' quota, once drivers pay their premiums.

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## Richard Li – *The Motor Revolution* Other Applications

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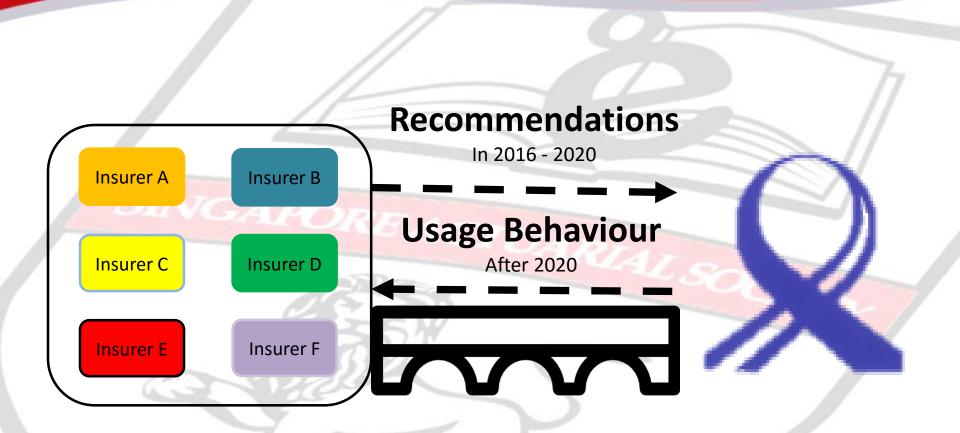
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# Richard Li – The Motor Revolution Conclusion & Action Plan



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Take Action

now!





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Reputation risk through Cyber Insurance







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Ma Xinning – Managing reputation risks through cyber insurance Contents

- 1. Rationale
- 2. Insurability
- 3. Data collection
- 4. Ethical issues
- 5. Summary

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# Ma Xinning – Managing reputation risks through cyber insurance Rationale

- Protection Gap
  - Breaches used to be under-reported as they cause loss to reputation
  - Stricter regulations governing data breaches
  - Issues that arise:
    - Not sure how to protect themselves against it
    - Not aware that they can protect themselves
      - Products covering the risk specifically not available/designed yet
      - Cyber insurance market is also rather new

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#### Ma Xinning – Managing reputation risks through cyber insurance Rationale - Definitions

Reputation risk

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#### Short term

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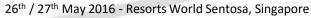
 Loss of revenue and market share (mainly covered by BI insurance)
 Loss due to upstream or downstream activities

#### Long term

•Ability for companies to regain market share

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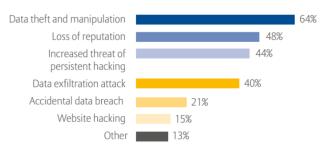
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## Ma Xinning – Managing reputation risks through cyber insurance Rationale

#### Impacts to business

- Kaspersky survey 2014<sup>[1]</sup>: Accidental data leaks by staff, which were reported by businesses... are now the biggest source of lost data
- Loss of reputation, loss of competitive advantage, loss of market share, potential regulatory issues etc.<sup>[2]</sup>
- 71% of customers say they will leave the company after a data breach<sup>[3]</sup>
- 48% of companies fear loss of reputation

# Which cyber risks do companies fear the most?



Source: Allianz Risk Barometer 2015. Figures represent a percentage of all eligible responses to the questions (127 in total). More than one risk selected.

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## Ma Xinning – Managing reputation risks through cyber insurance Rationale

#### Measurement of reputation loss

- Cost associated with having to regain market share
  - Cutting lines of businesses to appease public
  - Overhaul of company governance/other policies
- Revenue lost due to data breach along supply chain

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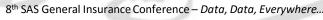




# Ma Xinning – Managing reputation risks through cyber insurance Insurability

# Marketability

- Most likely B2B over personal insurance
- Depends on risk level of company in question
  - E.g. High data risk clients more marketable
- Depends on type of industry/businesses
  - Supply chains: reputation of companies maybe interconnected
- Adverse selection
  - Purchasers of insurance maybe less careful







# Ma Xinning – Managing reputation risks through cyber insurance Insurability

## Profitability of insurance

- There could be difficulty in linking long-term reputation loss directly with data leaks as there could be a butterfly effect
  - i.e. not sure if other business events also affect reputation loss or if it is solely due to data breach (underwriting issue)

#### Potential loss events

- Inability to regain 20% of original customer base for a specific product (due to data breach) within 2 years
- Inability to recover 50% of short-term income lost
  - higher probability of going concern issues
- Additional losses while fixing data breach problem

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### Ma Xinning – Managing reputation risks through cyber insurance Data Collection

#### • Data mining

- Tracking keywords used in customer comments/social media to determine extent of damage to company reputation
  - Using hastag tracking or twits per day to track negative comments
- Monitoring costs of reversing damage due to data breach over the next 1 year
  - Within company
  - In relation to supply chain
- Sales data & analytics
  - To analyse market share changes



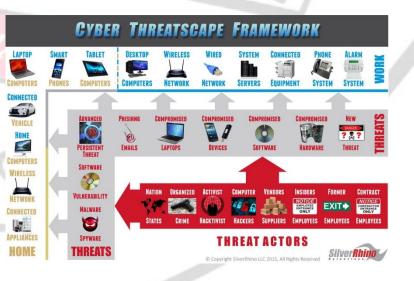




### Ma Xinning – Managing reputation risks through cyber insurance Data Collection

#### Present issues

- Increasing vulnerability due to widespread use & device interconnectivity
- Issue is exacerbated due "hactivists"
- Difficulty collecting data to link cyber risk and reputation specifically



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## Ma Xinning – Managing reputation risks through cyber insurance Ethical Issues

- Invasion of Privacy
  - Tracking keywords used social media could be an infringement of privacy to the general public
  - Social Media companies may not be willing
    - They may even work against businesses trying to data mine for information

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# Ma Xinning – Managing reputation risks through cyber insurance Approaches

- Rider to existing cyber/reputation insurance products (short term loss)
  - Operation issues: proof that upstream/downstream data breach impacts reputation of company
- Liability product (Long term loss)
  - Verification that going concern is due to inability to recover from previous reputation loss events
- Potential for catastrophic data insurance due to high device connectivity
  - For companies highly reliant on connected devices

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# Ma Xinning – Managing reputation risks through cyber insurance Summary

- Greater instance of reputation loss due to cyber breach
- Short term losses
  - Loss in revenue due to data breach affecting supply chains
  - Beneficial to companies whose reputation relies heavily on supply chain

#### Long Term losses

- Resolves going concern issues
  - Inability to recover customer base
  - Inability to recover 50% of short-term losses
- Several approaches
  - Rider to existing cyber/reputation insurance products (short term loss)
  - Liability product (Long term loss)
  - Potential for catastrophic data insurance due to high device connectivity

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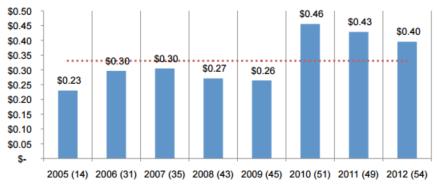
## Ma Xinning – Managing reputation risks through cyber insurance **References**

- 1. <u>http://www.kaspersky.com/about/news/virus/2014/Kaspersky-Lab-Survey-</u> <u>Identifies-Internal-IT-Threats-in-Businesses-and-Infrastructure-that-Lead-to-</u> <u>the-Most-Data-Loss</u>
- 2. <u>http://www.ey.com/Publication/vwLUAssets/EY\_Data\_Loss\_Prevention/\$FIL</u> <u>E/EY\_Data\_Loss\_Prevention.pdf</u>
- 3. <u>http://www.agcs.allianz.com/assets/PDFs/risk%20bulletins/CyberRiskGuide.</u> <u>pdf</u>

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**Detection and escalation costs decrease.** Figure 11 shows the eight-year trend for costs associated with detection and escalation of data breach incidents. Such costs typically include forensic and investigative activities, assessment and audit services, crisis team management, and communications to executive management and board of directors. As noted, average detection and escalation costs declined slightly from a high of \$.46 million in 2010 to \$.40 million in the present study.

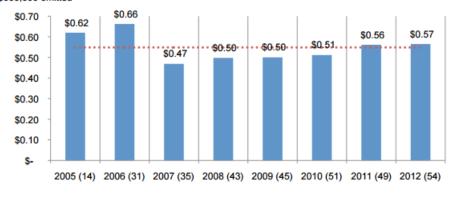


#### Figure 11. Average detection and escalation costs over eight years \$000,000 omitted

Detection & escalation ······· Average

**Notification costs increase.** Figure 12 reports the distribution of costs associated with notification activities. Such costs typically include IT activities associated with the creation of contact databases, determination of all regulatory requirements, engagement of outside experts, postal expenditures, secondary contacts to mail or email bounce-backs and inbound communication set-up. This year's average notification increased slightly from \$.56 million in 2011 to \$.57 million in the present year. The highest notification cost over eight years was \$.66 million that occurred in 2006.

#### Figure 12. Average notification costs over eight years \$000.000 omitted



Notification ······ Average

SINGAPORE ACTUARIAL

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Reputation risk through Cyber Insurance







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