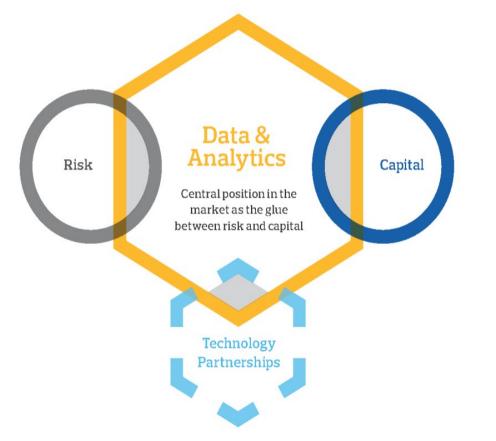


# Innovation, Agility, Resilience

PII International Insurance Conference – "InsurTech & Microinsurance" 14<sup>th</sup>–16<sup>th</sup> April 2019 | Karachi



#### **Innovation in Insurance**





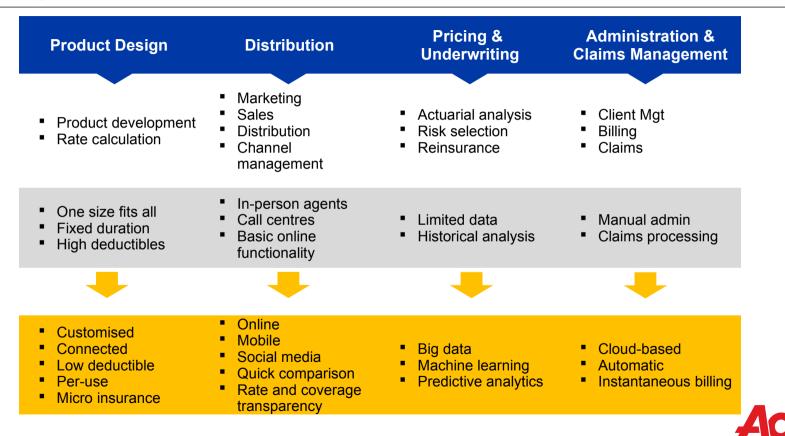


#### Innovation

- Turning an idea into a solution that adds value from a customer's perspective
- The implementation of creative ideas in order to generate value, usually through increased revenues, decreased costs or both
- Executing an idea which addresses a specific challenge and achieves value for both the company and the customer



### Targeting the Insurance Value Chain

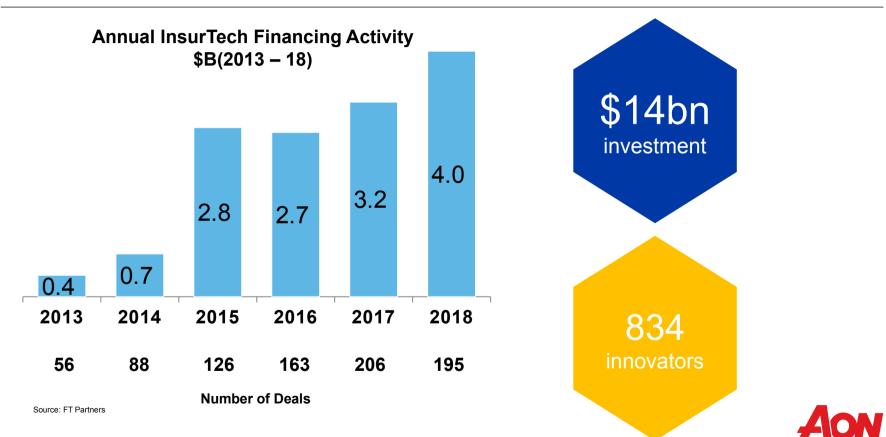


### Themes of Innovation & Disruption in the Insurance Industry

|                               | Themes  | How is technology helping?  | Examples of innovators                                     |  |  |  |  |
|-------------------------------|---|---|--|--|--|--|--|
| Digital<br>Experience         | <ul> <li>Digital marketing</li> <li>B2B brokers or B2C marketplace</li> <li>Online interaction models (e.g. P2P)</li> <li>Cyber security</li> </ul>                     | <ul> <li>Improved customer experience</li> <li>Increased penetration of existing market</li> <li>Access to new markets</li> <li>Opportunities for new products</li> </ul>   | EMBROKER COVERWAllet                                       |  |  |  |  |
| Analytics /<br>Data           | <ul> <li>Process automation (e.g. RPA, NLP, Chatbots)</li> <li>AI / Machine learning</li> <li>Cloud computing</li> <li>Big data / Data collection and mining</li> </ul> | <ul> <li>Improved operational processes (e.g. fraud detection, loss adjustment)</li> <li>Smart underwriting and decision tools</li> <li>Multi-channel connected data</li> <li>New sources of data to assess risk</li> </ul> | Groundspeed<br>CLAIMLOGIK amino<br>MDIFICO Cesty.oi        |  |  |  |  |
| loT /<br>Sensors /<br>Devices | <ul> <li>Remote sensing (e.g. drones, spatial imagery)</li> <li>Connected devices, sensor tech</li> <li>Internet of things (IoT)</li> <li>3D Printing</li> </ul>        | <ul> <li>Enhanced data for risk assessment and<br/>improved operational efficiencies</li> <li>Value added UBI analytics</li> <li>Better risk mitigation</li> <li>Emerging demand to insure new risks</li> </ul>             | RITE 1001"<br>COLLER<br>SITE 1001<br>COLLER<br>SMEXTVID.10 |  |  |  |  |
| Blockchain                    | <ul> <li>Distributed ledger assets</li> <li>Smart contracts</li> <li>Cryptocurrencies</li> </ul>  | <ul> <li>Chained key-value database</li> <li>Enhanced integrity and validation</li> <li>New risk products based on blockchain<br/>technology</li> </ul>   | Guardtime CETHERISC  |  |  |  |  |
| Societal<br>Trends            | <ul> <li>Sharing economy</li> <li>Gig economy</li> <li>Urbanisation</li> <li>Longevity</li> </ul>   | <ul> <li>Emergence of new insurable risks and<br/>exposures as a result of innovation</li> <li>New implications for existing business</li> <li>Enhanced linkages between health and<br/>wealth</li> </ul>                   | TURO Betterment  |  |  |  |  |
| Source: Aon tear              | ,   |   | Aon engaged as partner or advisor                          |  |  |  |  |



#### InsurTech in Numbers





**Empower Results®** 

### Fuelling the InsurTech Engine





#### Growth – the Three Forces







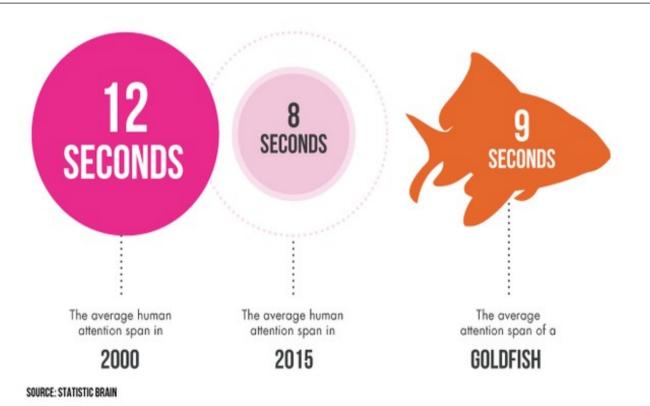
#### The Three Forces – Data Collect vs Buy vs Create





#### The Three Forces – Time

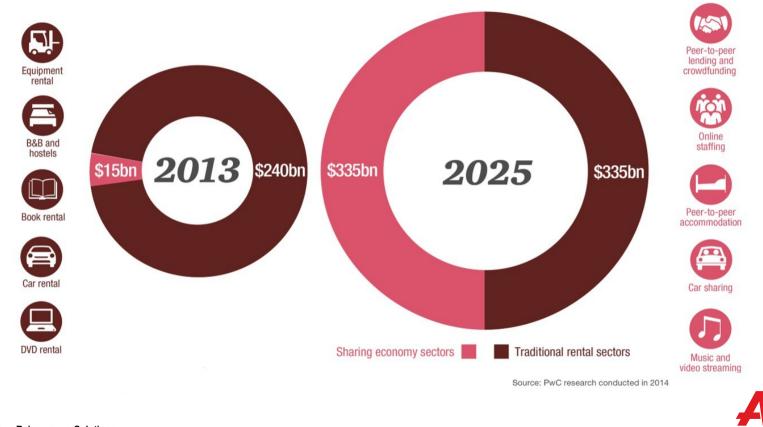
Living in an On-Demand Economy





### The Three Forces – Time

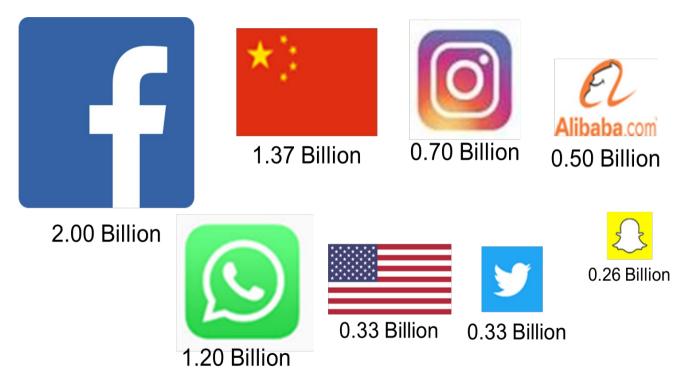
**Time-Based Competition** 



ON

### The Three Forces – Community

From Corporations to Platforms to Digital Communities



Source: Company websites, Press releases





### Agility

- Responding rapidly to changes in the internal and external environment without losing momentum or vision
- Where organisations seek to approach their operations and resources in a flexible, responsive manner
- Adaptability, flexibility and balance to remain relevant



### InsurTech is Hitting the Industry From Many Directions

#### Non-traditional sectors are exploring opportunities



- Internet & Tech is a powerful medium for customer acquisition
- Vertical integration in health insurance as large retailers try to save costs
- Influx of alternative capital is creating opportunities for new products
- IoT devices are changing the role of OEM

#### The rise of InsurTech MGAs

- Commercial client demands are changing too quickly for traditional insurers.
- Capital light structure and partnerships with incumbents is increasing capacity for new vehicles

Examples



#### InsurTechs are changing the leaderboards



MAERSK

- Blockchain technology is creating opportunities for disintermediation with new applications:
- Marine smart contracts

Blockchain has potential to disrupt our industry

- · Equipment repair / warranty
- · Account reconciliation
- Maersk is launching a marine blockchain platform in 2018 for insurance contracts
- A distributed ledger will greatly reduce admin costs, capital requirements and expense ratios for marine insurers

<mark>众安保险</mark> ZhongAn Insurance

#### ZhongAn

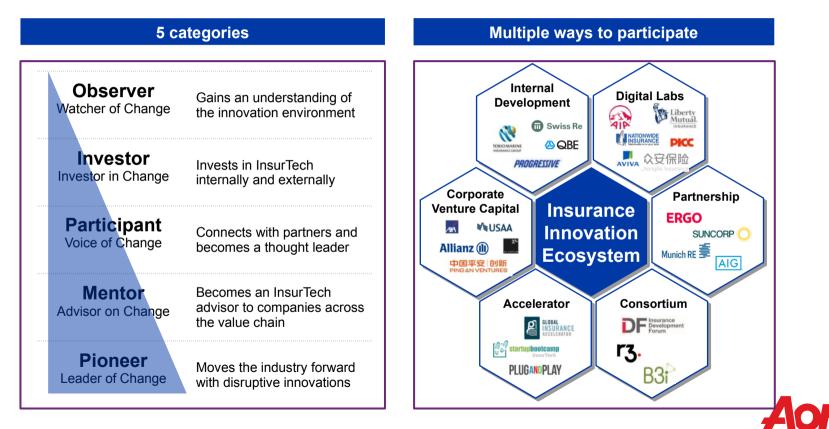
China's first online insurer has sold more than 8.2bn policies since 2013 and distributes policies through the messaging service WeChat





Sources: AIG, Insurance Insider, Business Insider, Business Wire, Allianz, CNBC, EY, Reuters, Financial Times, Reinsurance News, Insurance Journal & Growth Street

### How can Insurers Respond to InsurTech Innovation



#### The Asia Pacific "Lab" Landscape





### Aon's Expanding Innovation Network

Our existing partnerships...

#### ANDREESSEN Horowitz

Private US Venture Capital firm

Founded: 2009; Location: Menlo Park, CA Portfolio: 450+ Investments in ~300 companies

#### PLUGANDPLAY

Startup accelerator, venture fund, innovation platform

Founded: 2006; Location: California, Singapore Portfolio: ~400 Investments in 300+ companies



MIT Risk Group Cutting edge risk related research / technology related to cyber, other relevant areas



Co-working, collaboration for early stage startups

Founded: 2011; Location: Melbourne, Australia

And expanding...

University partnerships across North America, Europe, and APAC

Additional Venture Capital or accelerator companies



# Aon's Data & Analytics Partnerships

**Pricing &** Administration & **Product Design** Distribution Underwriting **Claims Management** Hardware product that Software analysis of Analyses damaged blocks communication Digital platform loss data from PDFs vehicle images to to any potentially hostile for extended warranty and other document predict repair cost IP addresses estimates types Platform connecting Sensors providing property damage predictive data to allow Digital platform Al-driven pricing assessment, supply insurance providers to for catastrophe for commercial lines chain management. better quantify and insurance underwriting claim management and manage risk policyholder service Geospatial analytics Machine Learning Digital insurance leveraging satellite platform to build and Real time supplier risk distribution services imagery, advanced deploy predictive intelligence models with application incorporating image processing and behavioural assessment data science to identify to other aspects of trends insurer operations



### **Example Aon Partnerships**



#### **Claims Excellence**

### Utilises predictive analytics to improve WC outcome

- The Aon Inpoint claims team is working together on the co-delivery of client engagements focused on improving the way that carriers handle Workers Compensation claims
- Aon Inpoint's claims expertise coupled with Clara's cutting edge predictive analytics provide actionable recommendations optimizing the management of Workers Compensation claims



#### Underwriting

Al enabled analytics platform that processes unstructured data from multiple sources (satellite, aerial, LiDAR) at scale to extract building characteristics

- Aon is working with Zesty.ai to codevelop their product starting at an early stage to shape capabilities around real world needs
- Aon Reinsurance identifies insurers and reinsurers who may benefit from the use of Zesty.ai data to supplement model based data and application data

Groundspeed

#### **Data & Analytics**

Integrates automated data mining & learning technology to eliminate data entry and delivers uniform insights

- Aon is unlocking the insights of legacy data that has historically been stored on disparate sources across all of Aon, including PDF and paper files
- This data will be used to better understand our existing clients and develop new propositions to bring to the market place with carrier partners



#### Regulation – Blessing or Burden



# Sandbox





#### Resilience

- The capacity to recover quickly from difficulties
- Ability of an organisation to anticipate, prepare for, and respond and adapt to incremental change and sudden disruptions in order to survive and prosper
- Ability of an organisation to quickly adapt to disruptions while maintaining continuous business operations and safeguarding people, assets and overall brand equity



#### Innovation is generating New Risks

# The Evolving Protection Gap



Tight supply chains



Sharing economy



New payment schemes



- Crowdsource software
- Platform businesses

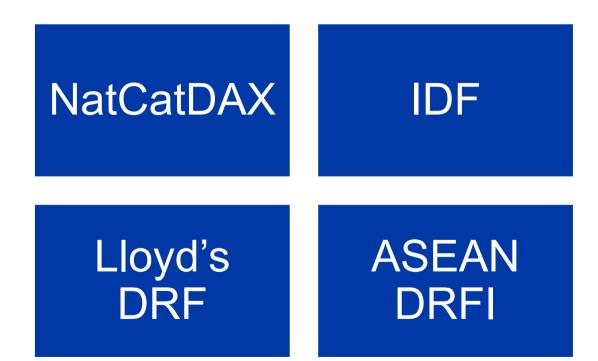


#### Aon 2017 Global Risk Management Survey Risk Ranking

| 1                             | Damage to<br>reputation/brand  | 2  | Economic<br>slowdown/slow<br>recovery | 3  | Increasing<br>competition                  | 4  | Regulatory/<br>legislative<br>changes                                   | 5  | Cyber crime/<br>hacking/viruses/<br>malicious codes | 6  | Failure to<br>innovate/meet<br>customer needs   | 7  | Failure to<br>attract or retain<br>top talent                                      | 8  | Business<br>interruption                     |
|-------------------------------|--|----|---------------------------------------|----|--|----|---|----|---|----|---|----|--|----|--|
| 9                             | Political risk/<br>uncertainties                                     | 10 | Third party liability                 | 11 | Commodity<br>price risk                    | 12 | Cash flow/<br>liquidity risk  | 13 | Property damage                                     | 14 | Directors &<br>Officers personal<br>liability   | 15 | Major project<br>failure   | 16 | Exchange rate<br>fluctuation                 |
| 17                            | Corporate social<br>responsibility/<br>sustainability                | 18 | Technology failure/<br>system failure | 19 | Distribution or<br>supply chain<br>failure | 20 | Disruptive<br>technologies/<br>innovation                               | 21 | Capital<br>availability/credit<br>risk              | 22 | Counter party<br>credit risk  | 23 | Growing<br>burden and<br>consequences<br>of corporate<br>governance/<br>compliance | 24 | Weather/natural<br>disasters                 |
| 25                            | Failure to implement<br>or communicate<br>strategy                   | 26 | Merger/acquisition/<br>restructuring  | 27 | Injury to workers                          | 28 | Failure of<br>disaster<br>recovery plan/<br>business<br>continuity plan | 29 | Loss of<br>intellectual<br>property/data            | 30 | Workforce<br>shortage   | 31 | Environmental<br>risk  | 32 | Crime/theft/fraud/<br>employee<br>dishonesty |
| 33                            | Lack of technology<br>infrastructure to<br>support business<br>needs | 34 | Inadequate<br>succession planning     | 35 | Product recall                             | 36 | Concentration<br>Risk (product,<br>people,<br>geography)                | 37 | Aging workforce<br>and related<br>health issues     | 38 | Accelerated rates<br>of change in<br>market factors<br>and geopolitical<br>risk environment | 39 | Interest rate<br>fluctuation   | 40 | Globalization/<br>emerging markets           |
| 41                            | Unethical behavior   | 42 | Outsourcing                           | 43 | Resource<br>allocation                     | 44 | Terrorism/<br>sabotage  | 45 | Climate change                                      | 46 | Asset value<br>volatility   | 47 | Natural<br>resource<br>scarcity/<br>availability of<br>raw materials               | 48 | Absenteeism                                  |
| 49                            | Social media   | 50 | Sovereign debt                        | 51 | Pandemic risk/<br>health crises            | 52 | Share price<br>volatility   | 53 | Pension scheme<br>funding                           | 54 | Harassment/<br>discrimination   | 55 | Kidnap and<br>ransom/<br>extortion   |    |  |
| Insurable Partially Insurable |  |    |                                       |    |  |    | Uninsurable www.aon.com/2017GlobalRisk                                  |    |   |    |   |    |  |    |  |

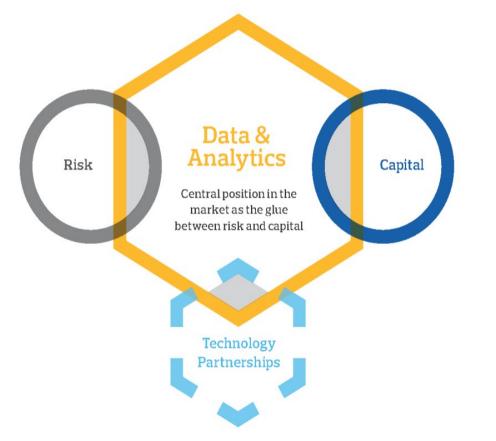


#### **Building Resilience – Disaster Protection Gap**

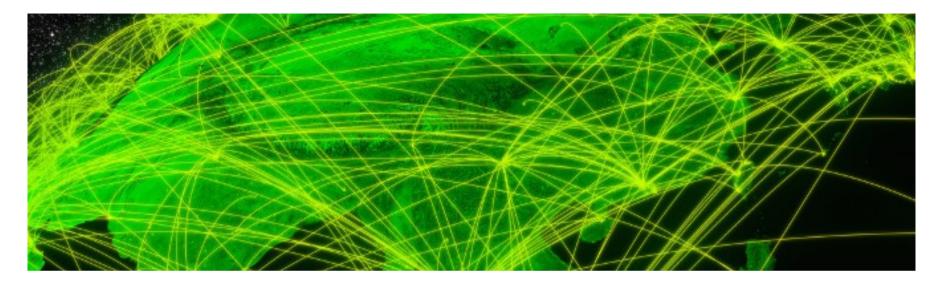




#### **Innovation in Insurance**



**AON** Empower Results®



## Thank You!

