

**Cyber Risk – Current State of the Market, Risk Modeling and Analytics**  
 October 27, 2016

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**Cyber – opportunity or threat?**

- Cyber represents fastest growing insurance market segment
- US market currently dominates but worldwide premium growth expected to increase dramatically
  - 2012 \$1.3B (U.S. only) – Advisen
  - 2015 \$2.4B (U.S. only) – Advisen
  - 2020 \$7.5B (Worldwide) – PWC
  - 2025 \$20B (Worldwide) – Allianz
- However, there is little available claims data to help determine cyber pricing and sources of exposure are evolving rapidly
- With greater interconnectivity of data, there is also a market fear about the scale of cyber accumulation exposure, although much of this is based on conjecture
- As in other lines, modelling would help inform underwriting decisions, free-up capacity and allow insurers to manage their accumulations with support from reinsurers
- There are few, if any, commercially available cyber underwriting models and Willis Re has been working hard to help clients better understand their exposures and fill the modelling “gap”

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**Increasing demand for cyber insurance from all sectors**  
 What's driving it?

**World's biggest Data Breaches**

**Average cost per cyber crime:**  
 USA – USD 15.4M  
 GER – USD 7.5M  
 UK – USD 6.3M

**52%** of all U.S. SME businesses were interested in buying Cyber insurance

**41%** of all online adults have fallen victim to cyber attacks

**Low Limit** Top reason for US companies for not buying cyber insurance in 2015:

**loss of personal data and IP theft** Major concerns are

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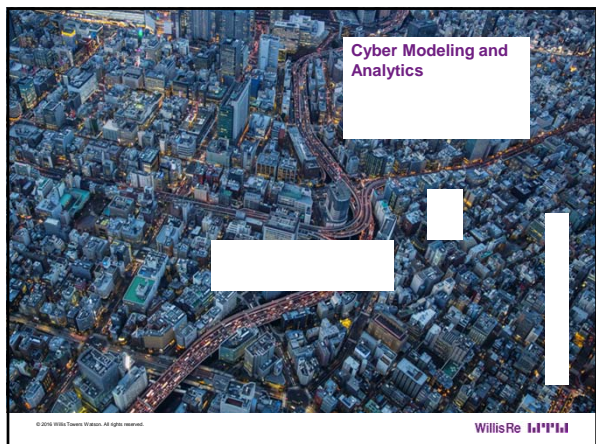
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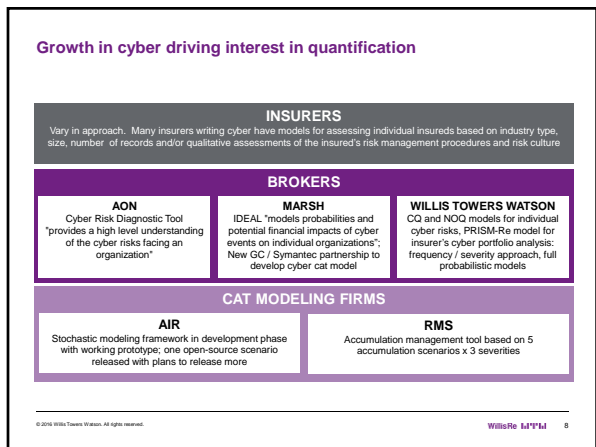
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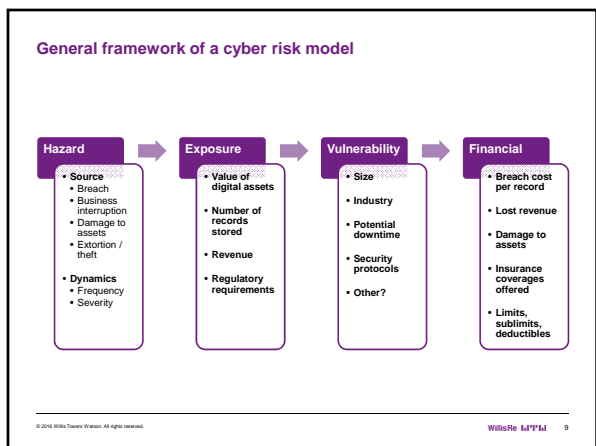
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