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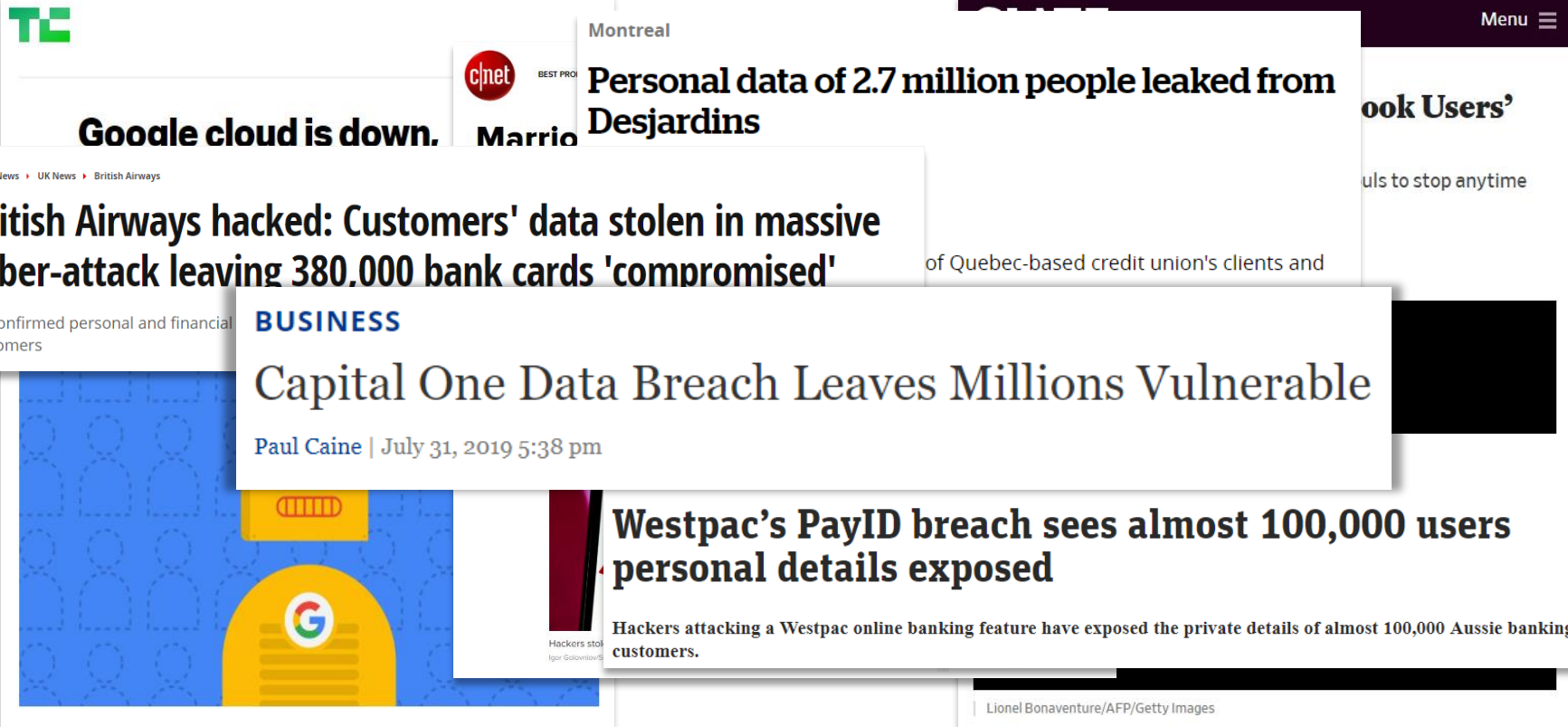
Conquering Cyber Risk

Bethany Vohlers

Agenda

- Evolution of the Cyber Insurance Industry
- Advancements in Probabilistic Cyber Modelling
- Cyber Risk in Traditional Lines
- Q&A

Cyber Incidents and Loss Causes Continue to Evolve



GDPR Fines Are Now in Full Swing

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NEWS

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Business Your Money Market Data Companies Economy

British Airways faces record £183m fine for data breach

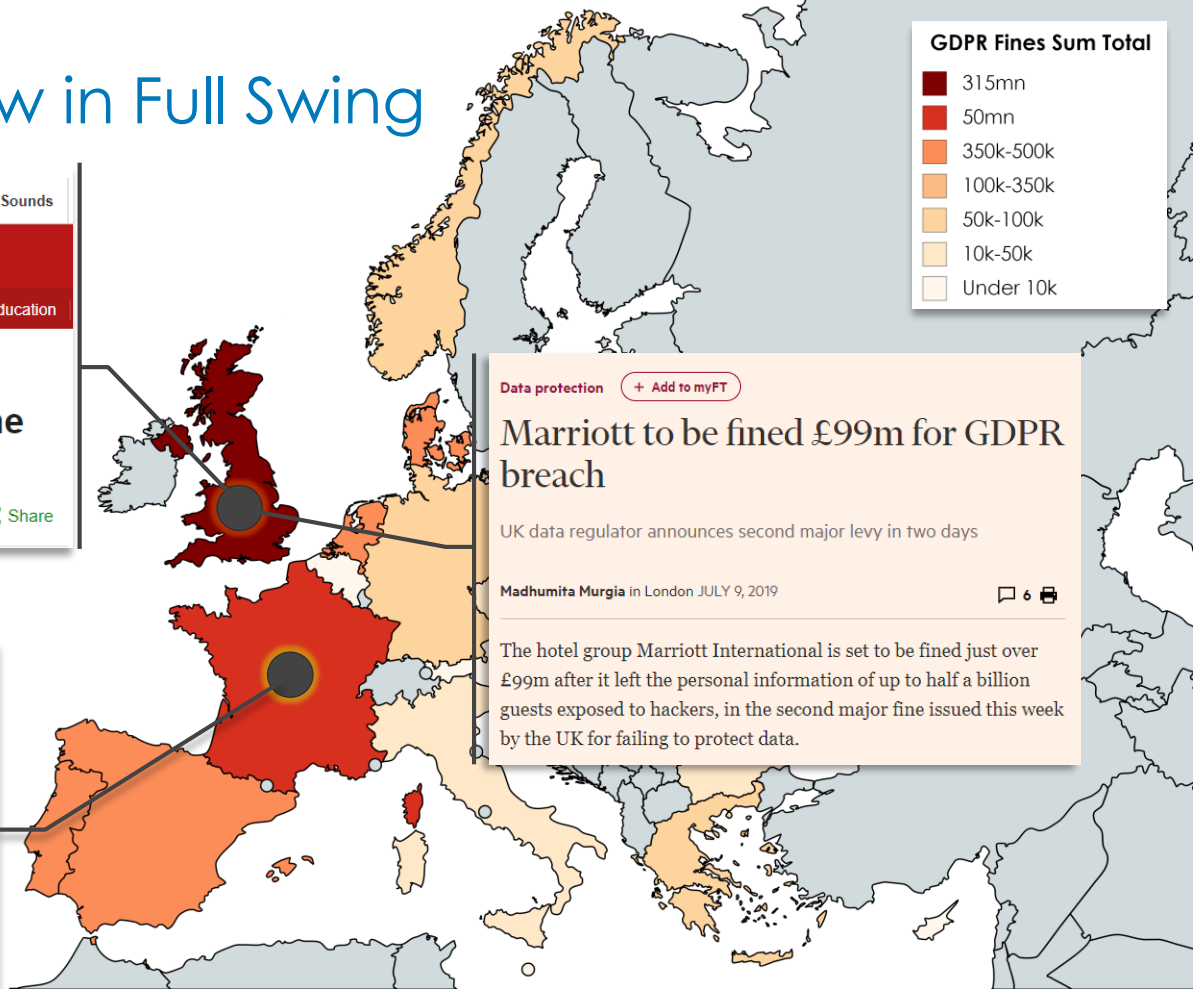
8 July 2019

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Home / News / Digital / Data protection / France hits Google with €50 million GDPR fine

France hits Google with €50 million GDPR fine

By Aline Robert | EURACTIV.fr | translated by Manon Flausch and Rob Kirby Jan 22, 2019



Source: enforcementtracker.com

Cyber Is a Multi-Disciplinary Problem



Modelling



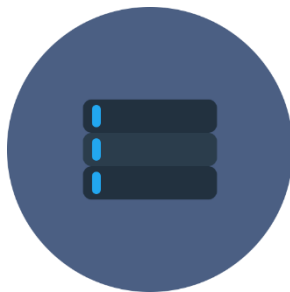
Underwriting



Cyber Security



Technology

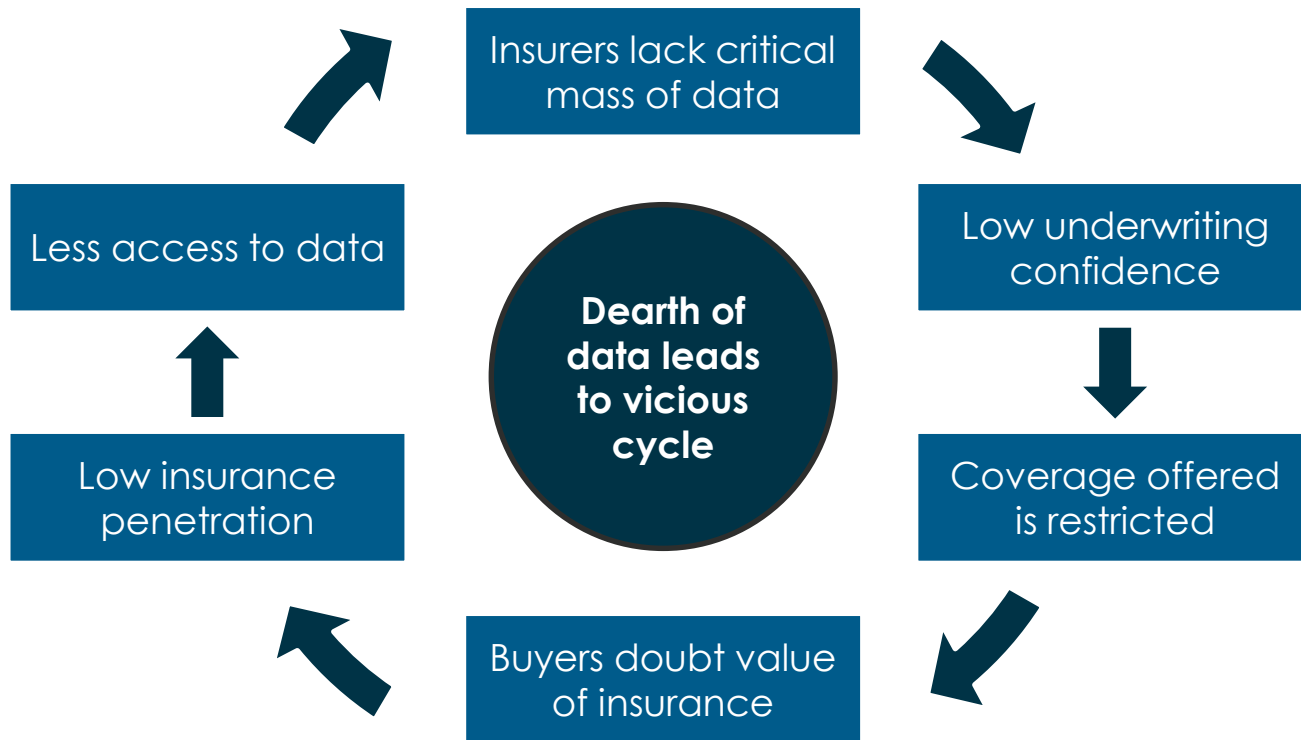


Data



Insurance

The Vicious Cycle of Cyber Data



Source: Deloitte Center for Financial Services

Breaking the Cycle: Cyber Data Improves Our Understanding of Risk



Business
Information



Outside-in



Inside-out



Process and
Policy



Endpoint



Threat
Intelligence



Incident



Connectedness



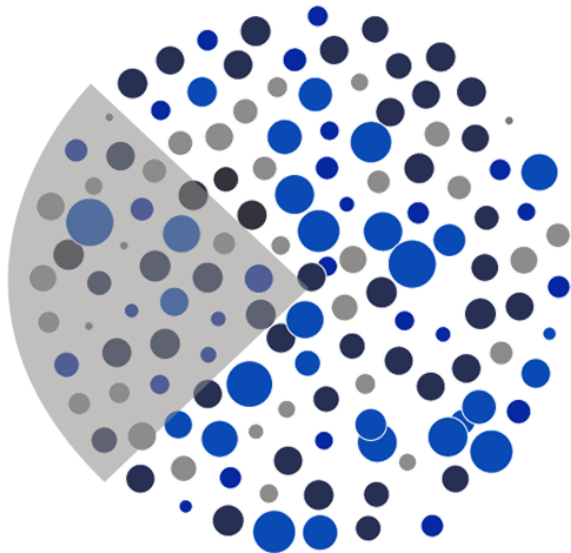
Cloud Hosting



Recent
News

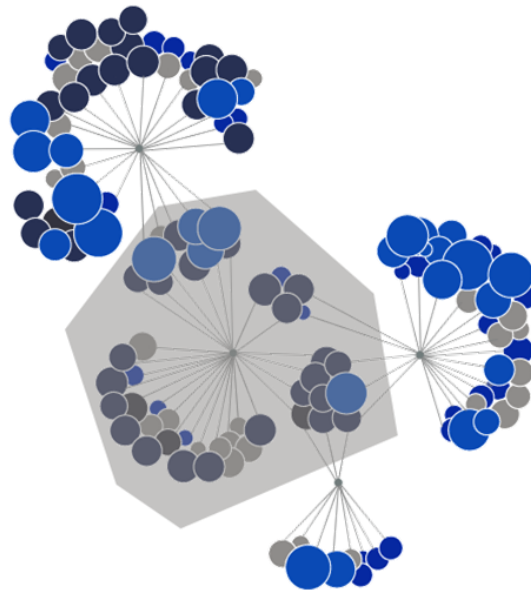
Robust Risk Management Includes Multiple Approaches

Market Share Approach



Cloud Vendor X has 25% Market Share
(*region-specific* market shares applied)

Detailed Accumulation Approach



Cloud Vendor X is used by these *specific*
33% of companies

Achieving a Consistent View of Risk



**Insurance
Programme**



**Underwriting
Platform**



**Data
Exchange**



**Risk
Modelling**



**Industry Loss
Estimates**

An Innovative Cyber Modelling Approach



Detailed Risk
Models



Global Cyber
Database

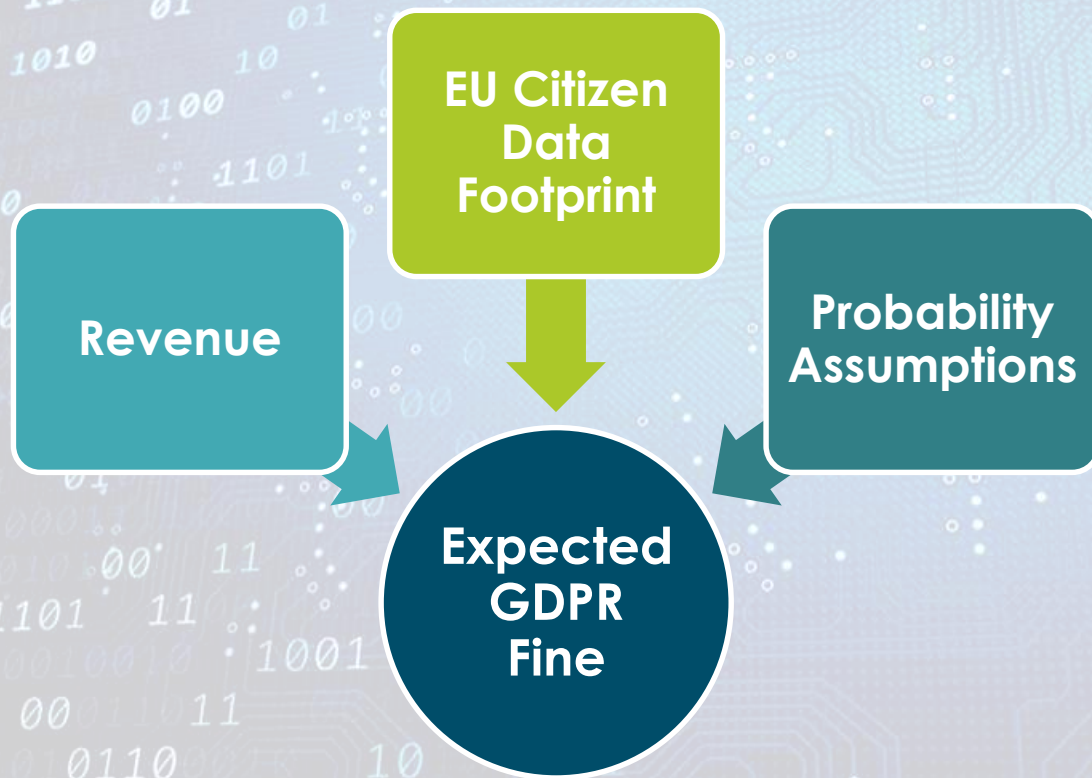


Transparency
and Flexibility

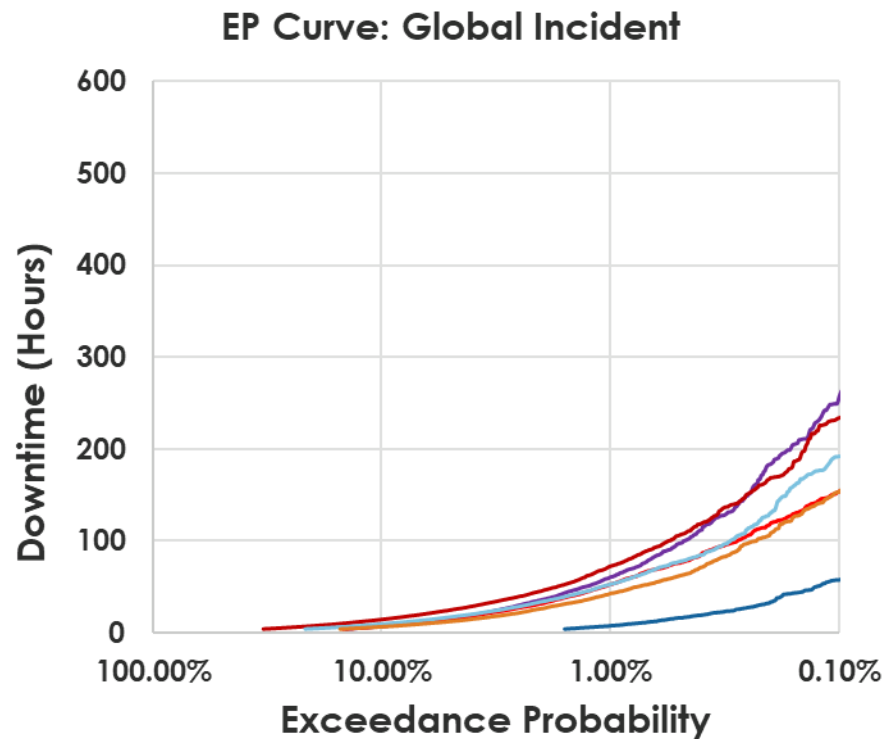
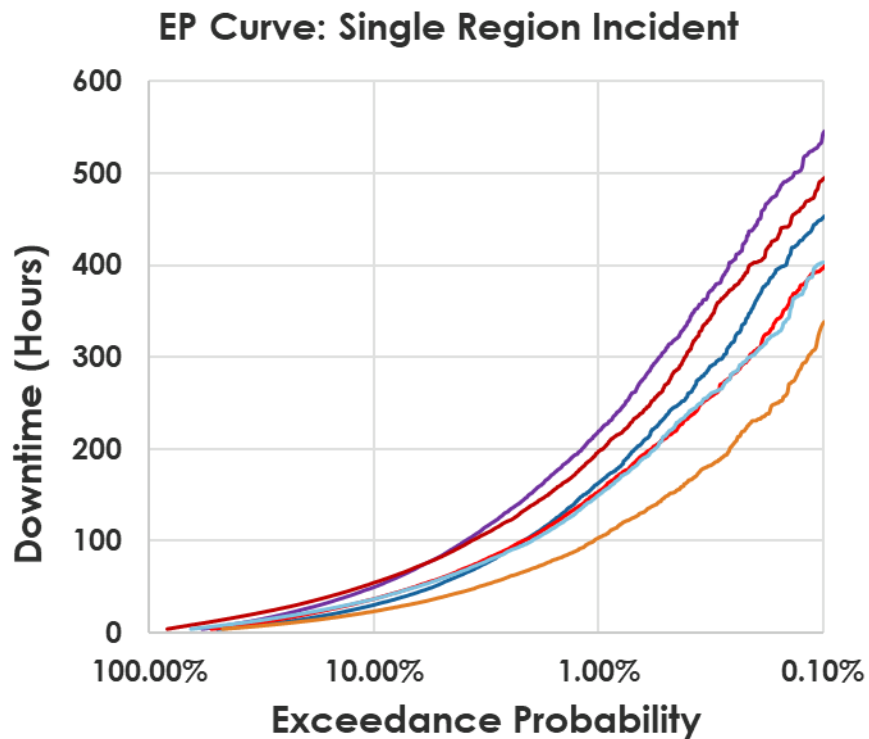
Machine Learning Identifies Drivers of Risk



Assessing Potential GDPR Fines from Data Compromises



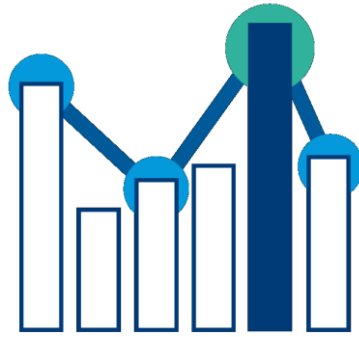
Not All Cloud Providers Are Equally at Risk



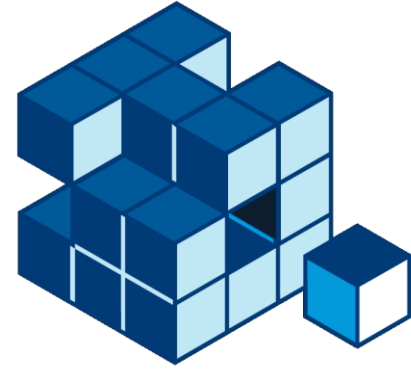
(Re)Insurers and Brokers Leverage Our Cyber Risk Solutions Across a Number of Use Cases



**Underwriting
and Pricing**



**Portfolio
Management**



Risk Transfer

The Cyber Underwriting Report

Flexible report access options

Firmographics

Cyber Underwriting Report

UNITED PARCEL SVC INC
55 GLENLAKE PKWY
ATLANTA GA 30328

PDF

Email

UNDERWRITER'S SUMMARY

Name:	UNITED PARCEL SVC INC	
Industry NAICS:	561910 - Packaging and Labeling Services	Primary
Sales:	\$58,363,000,000	

Modeled Indicators

Annual Probability of a Data Compromise:	10-20%	>20%	1% - 20%	<1%
Cloud Downtime Score:	60	0 - 19	20 - 49	50 - 100

Modeled Average Annual Loss (Ground Up)

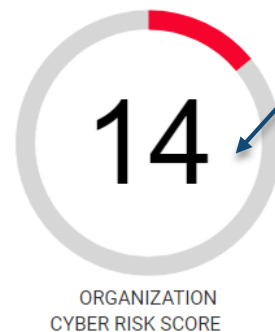
Data Compromise:	\$2,893,910
Cloud Downtime Business Interruption:	\$17,236,500
Total:	\$20,130,410

Likelihood of experiencing a compromise event over the next year

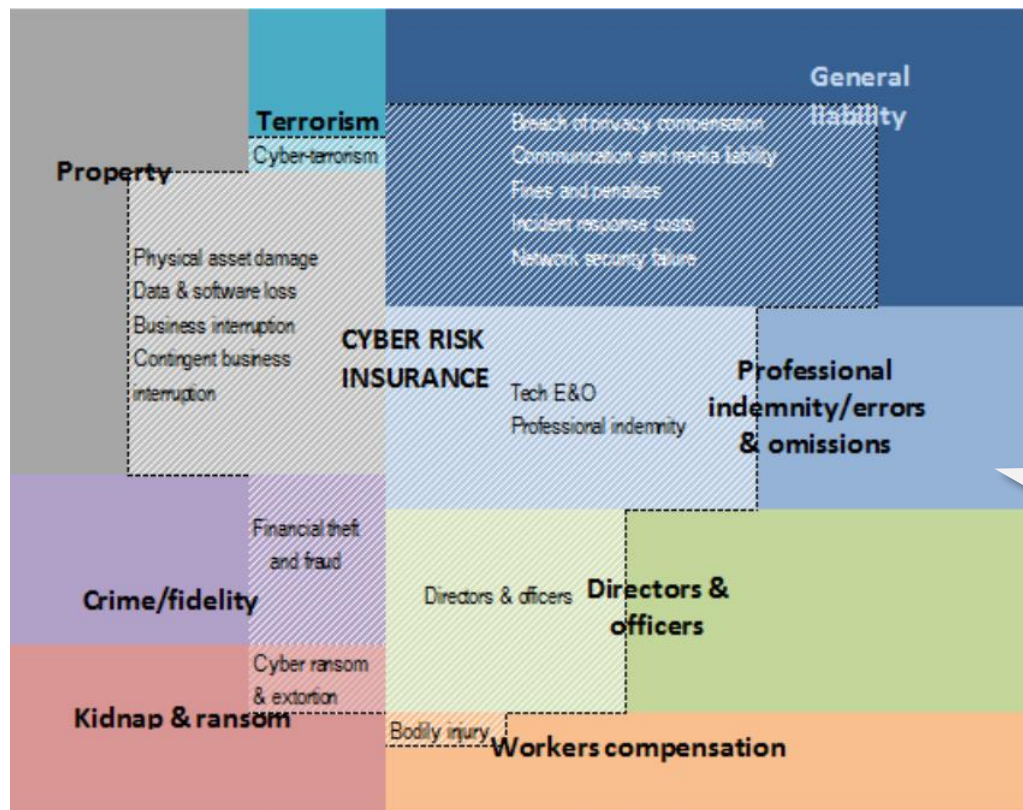
Risk modelling loss metrics

Individual company losses as compared to **industry peers**

Peer-industry losses compared to **all other industries**



Silent Cyber: Insurers Are Mired in the Cyber Grey Area



Silent cyber lurks where cyber is **not explicitly included or excluded** in policy wordings

Cyber risk is **boundaryless** — claims can be made across any number of lines of business

Source: OECD

Modelling Silent Cyber Scenarios



Offshore Energy



Commercial Buildings



Auto

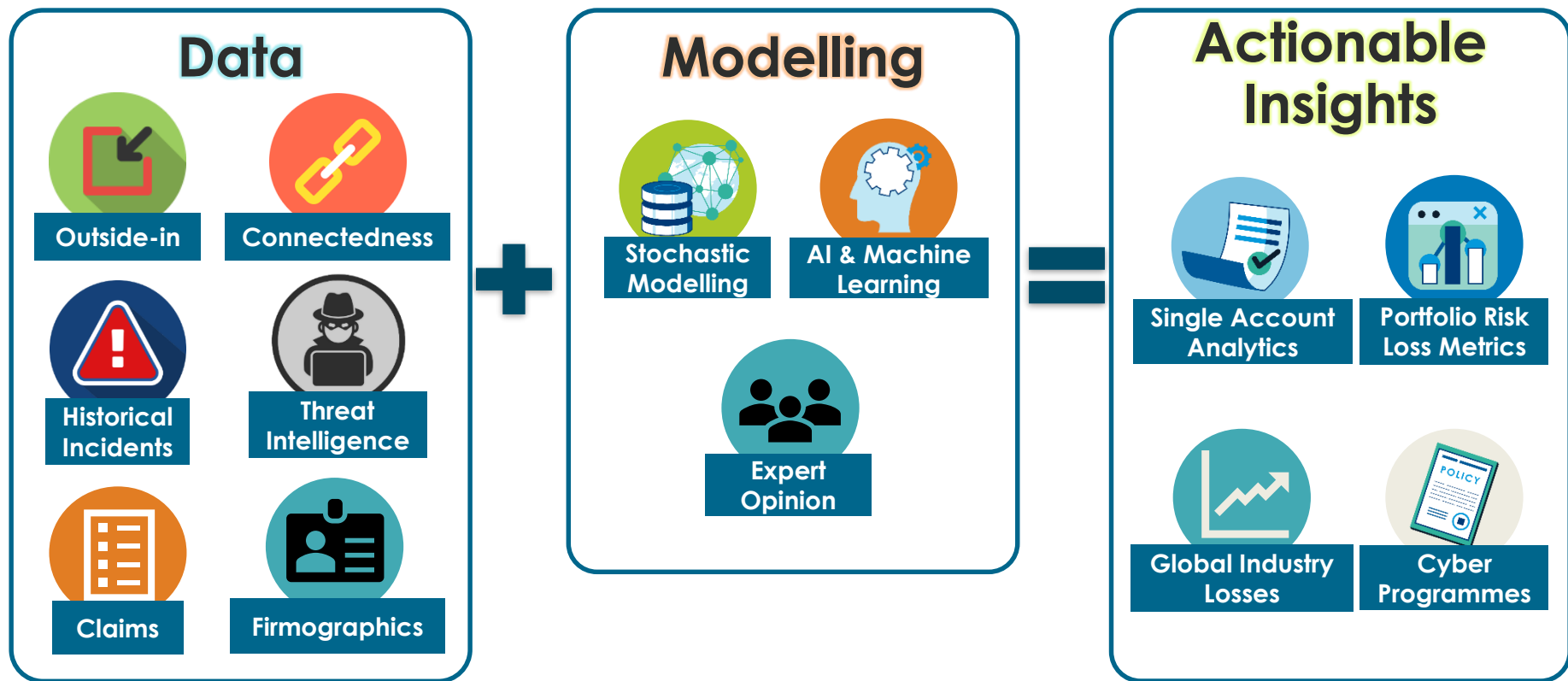


D&O



Ransomware Events

Verisk Cyber: Turning Data into Actionable Insights



Questions?



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