Slide 1

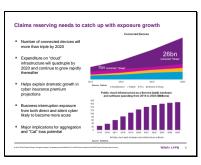




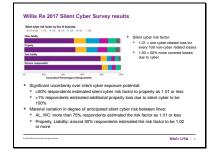




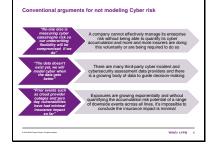








## Slide 8

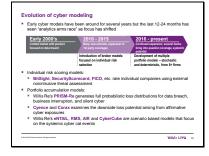


### Slide 9

#### Framework for measuring cyber risk

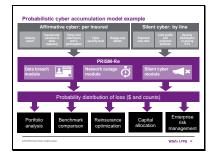
- Cyber business warants a Group-level approach given its potential to span the spectrum of PAC lines
  Requires a framework for measuring direct and indirect exposure in order to establish risk tolerance
  Fundamental approach is akin to property cat modeling exposure-based framework required to quantify tail risk
- Multi-model view is essential \* Opter modeling is in its intracy with many different approaches to quantifying risk, some of twen providing partial answers (e.g. cat vs. attritional) \* Multiple perspectives necessary to begin to build framework for analyzing portfolic and developing sattrategy
- Focus on calculating PML as a more practical measure of risk quantification than absolute max downside (TIV or TEAL\*)

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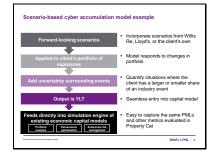



# Slide 11

Model	Portibilo Risk	Individual Risk	Systemic / Cat	Attrition d	Full stochastic	RD3	Attractive	Skint	Market Adaption	Commenta
PRISM-Re Core	×	×	×	v	×		~	×	×	Easy-to-use and transparent, provides holistic view of portfolio cyber exposure that encompasses alfernative and silent, ability incorporate individual risk scores from outside sources
PRISM-Re SRDS	×		×		×	~	~	~	×	Fixable framework with extensive RDS scenario catalog that generates loss projections stochastically
Corax	~	~	~	×	×	~	~			Individual policy pricing and portfolio accumulation capabilities using advanced machine learning techniques on exclusive third party data sources
Cyence	~	~	~	×	×	~	×		×	Outside-in threat assessment that differentiates individual risks using external nonintrusive approach
CyberCube	~	~	~		×	~	~			Uses both outside-in assessment and inside-out approach base on data from Symantec's cybersecurity products
AIR - ARC	~	~	~		s.	×	×	s.	×	Leverages BitSight scores and proprietary exposure database, has developed probabilistic capabilities for most cyber perits an silent cyber for certain lines
RMS - CAMS	~	×	×		×	×	×	×	×	Utilizes BitSight and SecurityScorecard ratings, probabilistically models various IT cyber loss processes and includes additional silent cyber scenarios
FICO / BitSight / SecurityScorecard		~		×			×			Individual risk rating models that rate entities based on external nonintrusive threat assessment









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