









Putting it all in perspective				
Fire Risk – past	Cyber Risk - current			
 Significant and complex risk to manage due to <u>urbanization</u> 	 Same as fire risk, except due to <u>digitalization</u> and IoT 			
 Major event could disable critical infrastructure, imperil national security and threaten the economy 	Same as fire risk			
 In spite of the risk people still gravitated towards city living 	 In spite of the risk people and businesses are gravitating towards a more interconnected world 			
 Response to the risk involved an integrated approach involving public, private and social sectors adopting a package of risk mitigation measures 	Stay tuned			



Growth challenges faced by insurers in recent years	Capital levels for the industry are at all-time highs and continue to rise	Product supply outpacing demand for many insurance products	A few exceptions exhibit potential for high growth
Driver of recent wave of M&A transactions and stock buybacks	But identifying attractive opportunities for deploying capital has been difficult	Resulting in limited opportunities for organic growth	Insurance solutions for Cyber Risk





Date	Company Affected	Number of records	Type of information stolen	Total costs incurred	Insurance cover	Total cost/ Market Cap*
Feb 2015	Anthem	80 million	Names, Social Security numbers and other personal information	US\$230 million ¹	Cyber coverage between US\$150- US\$200 million	0.63%
lov 2014	Sony	47,000	Social Security numbers	Estimated to be around US\$100 million	100% covered by insurance	0.32%²
Oct 2014	JPMorgan Chase	76 m household, 7 m businesses	Customer names, Addresses, Phone numbers and Email addresses	_3	-	-
Sep 2014	Home Depot	56 million	Credit and Debit card information	US\$232 million ⁴	US\$30 million	0.17%
Aug 2014	Community Health Systems	4.5 million	Patient names, birth dates, addresses, telephone and social security numbers	_5	-	-
ec 2013- Jan 2014	Target	40 million	Credit and debit card information	US\$290 million	US\$90 million	0.81%
Market cap in L	ISD millions as at end of	fiscal year of the breach	, as sourced from Bloomberg.			

Date	Company Affected	Number of records	Type of information stolen	Total costs incurred	Insurance cover	Total cost/ Market Cap*
ul-Aug 2015	Ashley Madison	32 million	Names, Addresses, phone numbers and credit card information	£1.2 billion ¹	-	-
Jan 2015 ²	Premera Blue Cross	11 million	Name, Social security number, telephone number, medical information etc.	-	-	-
Sep 2015	Excellus BlueCross BlueShield	10.5 million	Name, Social security number, telephone number, medical information etc.	US\$17.3 million ³	US\$9.1 million	-
Sep 2015	Experian	15 million	Names, addresses, social security, driver's license and passport numbers	US\$20 million⁴	US\$10 million ⁵	0.12%
Dec 2015	United States voters	191 million	Name, address, birth dates, phone numbers and emails	_6		-
Jul 2015	Korea Pharmaceutical Information Center	43 million ⁷	Medical health information on patients in Korea	-	-	-
*Market cap in	USD millions as at end of fiscal	year of the breach, a	s sourced from Bloomberg.			
 Estimated da to be muci Discovered i Costs report Costs report Though no in breach like The data wa Represents 	amages that the Canada-based n more. n Jan 2015, the cyber attack ac ed as of 2015. Costs incurred for ed till Nov 2015. The company isurance cover amount could by customer notifications, whic sattributed to accidential loss di nearly 90% of Korea's populatio o far.	company faces in the vally took placed in I r 2016 have not been expects further dama e sourced, insurance h were pegged at US ie to a misconfigured n. Although this insid	e UK only from class action lawsu May 2014. n released yet. ges related to possible lawsuits. cover is expected to lake care of \$10 milion by analysts. (database and no damages were er data breach is under investiga.	it. Global damages of 'short term' costs of reported. ion, no costs have b	expected the leen	











