

Alternative Capital: Update

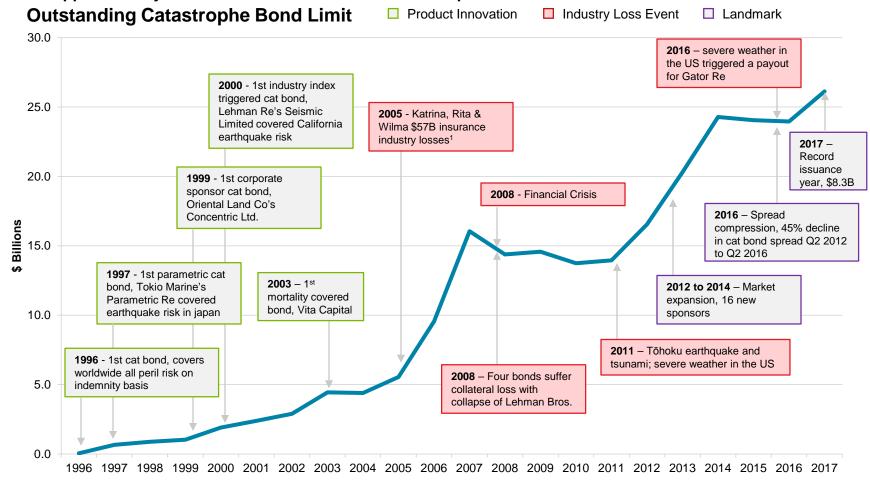
July 28, 2017





Alternative Capital Market Timeline History and Key Developments

Record \$26.12 billion outstanding catastrophe bond issuance achieved through 2017 year-to-date. Following 20 year development of the Alternative Capital Market through product innovation and significant industry loss events. Approximately \$84 billion has been issued since inception.



¹ Total Estimated Insured Property Losses Identified by PCS Source: Aon Securities Inc.

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Alternative Capital Market Coverage Development Expansion Beyond Property Catastrophe Risks

Alternative Capital Market has expanded from pure property catastrophe exposure coverage to additional markets including mortality, health, longevity, lottery, storm surge, motor third-party liability and pandemic.

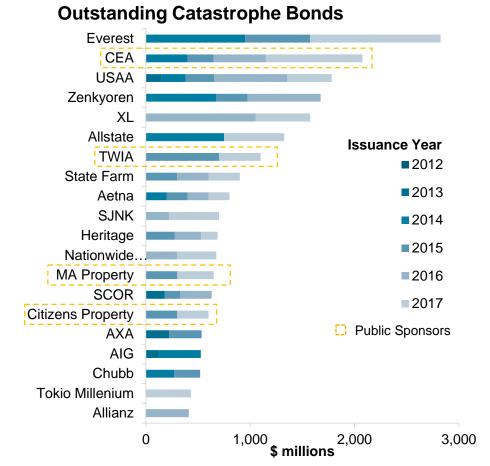
Action on Indemnity basis 2010	Swiss Re Kortis Capital Ltd. \$50 Million <i>Longevity risk</i> 2010	MyLotto24 Hoplon Insurance Ltd. €70.3 Million Lottery winnings 2011	STATE FUND Golden State Re Ltd. \$200 Million Workers' Compensation claims (CA Earthquake) 2011	MetroCat Re Ltd. \$200 Million New York Parametric coverage for storm surge 2013
The Art & Science of Risk Atlas IX Capital Limited	Benu Capital Limited	ZURICH [°] Operational Re Ltd.	GENERALI Horse Capital I DAC	Global Debt Issuance Facility
\$180 Million Extreme mortality 2013	€285 Million Excess mortality (France, Japan, U.S.) 2015	F220 Million Operational Risks 2016	€255 Million Motor third-party liability losses 2016	\$330 Million Parametric reported cases and deaths 2017

Source: Aon Securities Inc.

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Alternative Capital Market Sponsors Public Sponsor Utilization of Catastrophe Bond Risk Transfer

Four of the top 20 largest sponsors based on current outstanding catastrophe bond limit are public sponsors as Alternative Capital Market supports privatization of public risks.



Sponsor	Total Outstanding (\$ millions)	Triggers
Everest	2,825	Index
CEA	2,075	Indemnity
USAA	1,780	Indemnity
Zenkyoren	1,675	Indemnity
XL	1,575	Index
Allstate	1,325	Indemnity/Index
TWIA	1,100	Indemnity
State Farm	900	Indemnity
Aetna	800	MBR
SJNK	700	Indemnity
Heritage	687.5	Indemnity
Nationwide Mutual	675	Indemnity
MA Property	650	Indemnity
SCOR	630	Indemnity
Citizens Property	600	Indemnity
AXA	534	Index/Life
AIG	525	Indemnity
Chubb	520	Indemnity
Tokio Millenium	430	Index
Allianz	410	Index

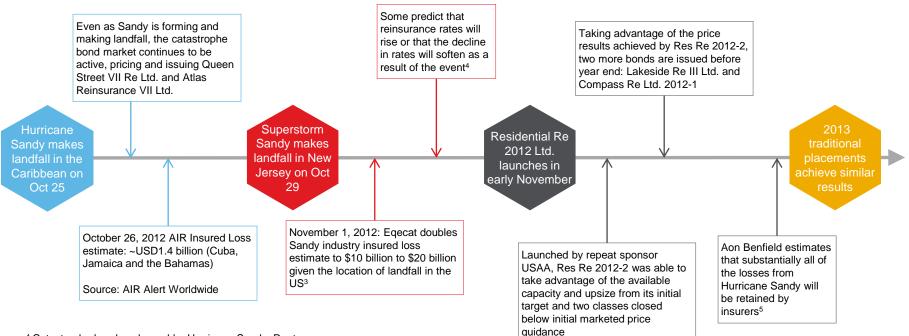


Source: Aon Securities Inc.

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Superstorm Sandy and the Catastrophe Bond Market

- It was estimated that over half of the outstanding catastrophe bonds had exposure to a potential Hurricane Sandy loss¹
- Ultimately the economic loss from Superstorm Sandy was USD72 billion, while insured loss was USD30 billion²
- The availability of capital and rate decreases achieved in the catastrophe bond market by Res Re 2012-2 helped to stabilize the reinsurance markets overall post Superstorm Sandy



¹ Catastrophe bonds unbowed by Hurricane Sandy, Reuters

- ² Hurricane Sandy Event Recap Report, May 2013, Impact Forecasting
- ³ Insurance Insider, Eqecat doubles Sandy industry estimate to \$10bn-20bn
- ⁴ Property/casualty insurance rates expected to firm in wake of Superstorm Sandy, Business Insurance
- ⁵ Reinsurance Market Outlook, January 2013, Aon Benfield

Source: Aon Securities Inc. Aon Securities Inc. Proprietary & Confidential



The Catastrophe Bond Market's Role in Terrorism Risk Transfer Markets

- While there are no bonds in the ILS market which solely cover terrorism, it is inherently included in various transactions
 - Examples include:
 - Extreme mortality deals such as the Vita Capital Ltd bonds
 - Event cancelation bonds such as the 2003 FIFA Golden Goal Finance Ltd
- Although terrorism risk can change quickly, the ILS market continues to evolve and is better positioned today to contribute to the risk transfer of terrorism risks
 - Models which quantify losses of potential terrorism events continue to be refined
 - Parametric-style terrorism triggers are currently being developed which will aide in the transferring of risk to the capital markets
 - Investors continue to become more sophisticated and demand access to perils that are diversifying to their current holdings
- Stand alone terrorism coverage is currently available today in the ILS market on a limited basis
- Similar to past large catastrophic events, the ILS market is better positioned to provide meaningful capacity after a large terrorist event to help stabilize the market



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