



TRUST RE

PERSPECTIVES

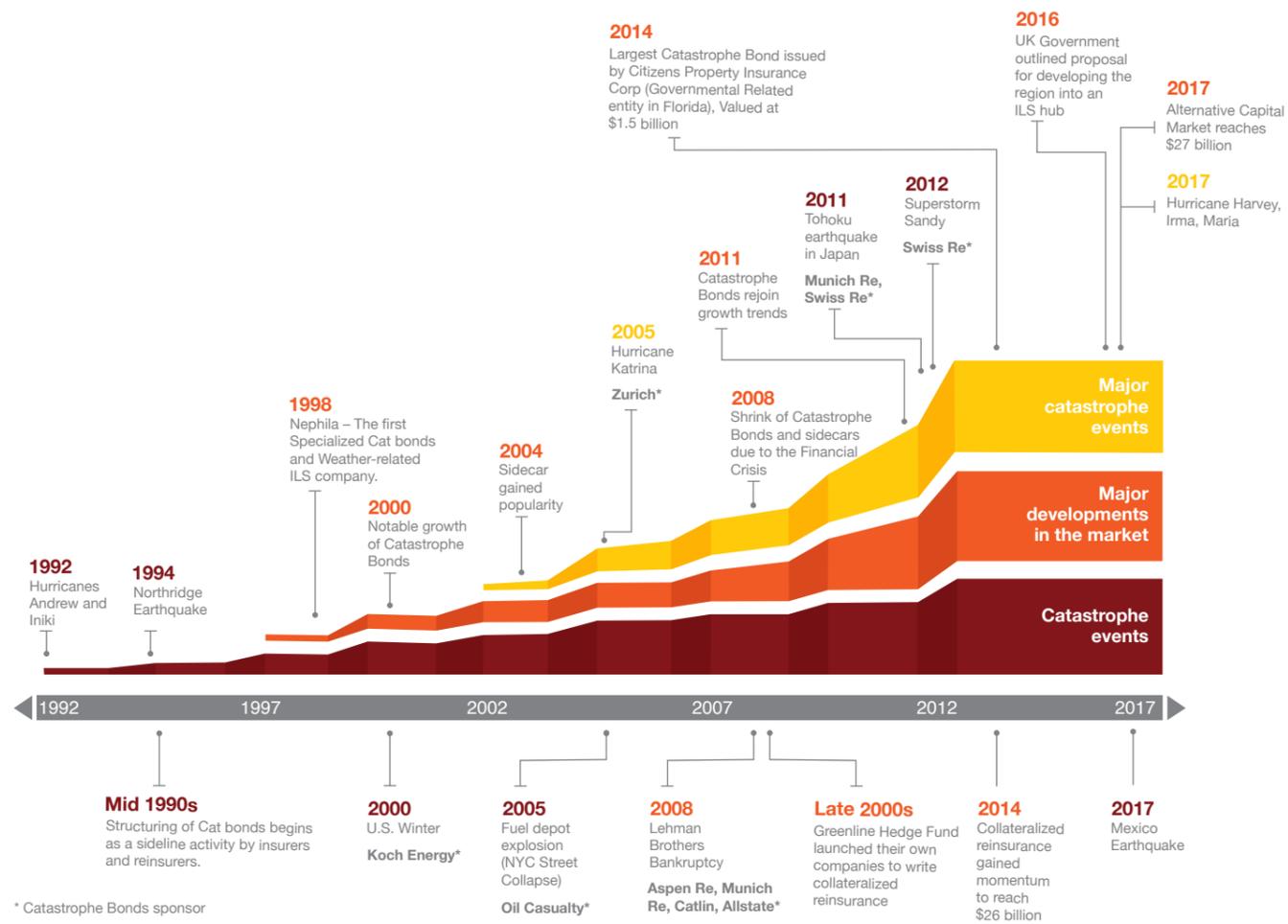


**THE CONVERGENCE OF REINSURANCE
AND ALTERNATIVE CAPITAL**

SUPPORTING INSURANCE DEMAND

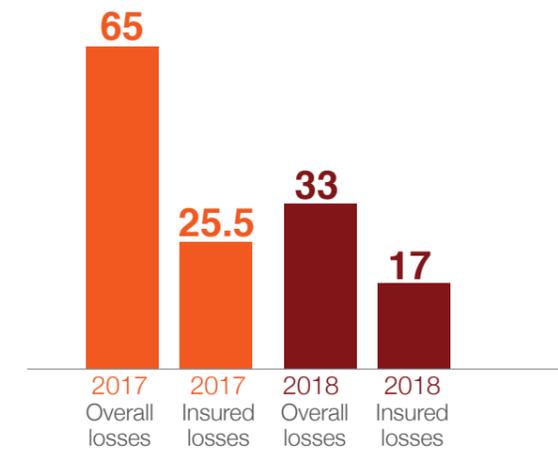
PLANNING AND PERFORMANCE MANAGEMENT DEPARTMENT, NOVEMBER 2018

Historical Evolution of Alternative Capital: Driven by Catastrophe Bonds



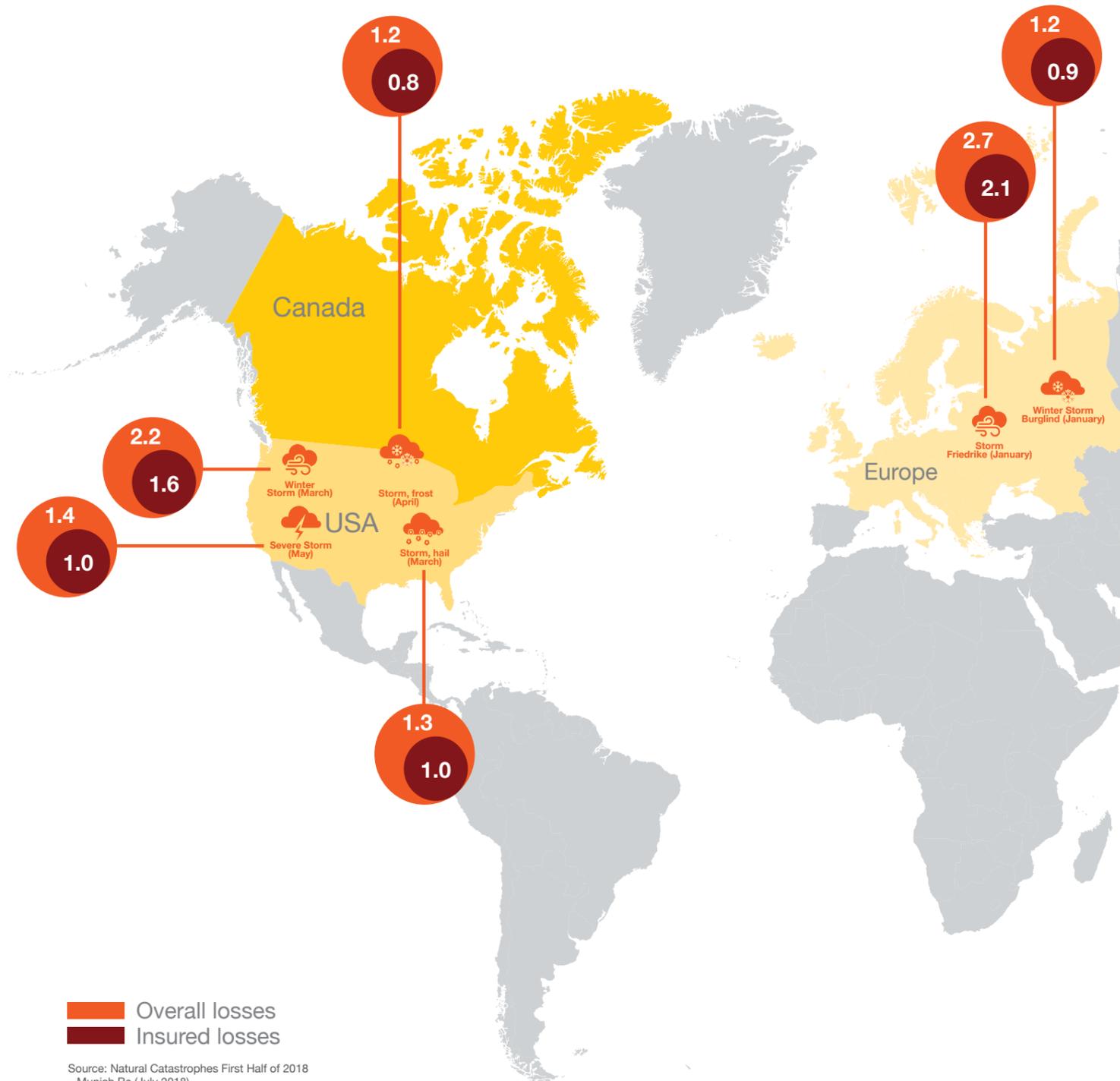
2018 Worldwide Notable Events as at H1 2018

Losses from Natural Catastrophe (in \$ billion)



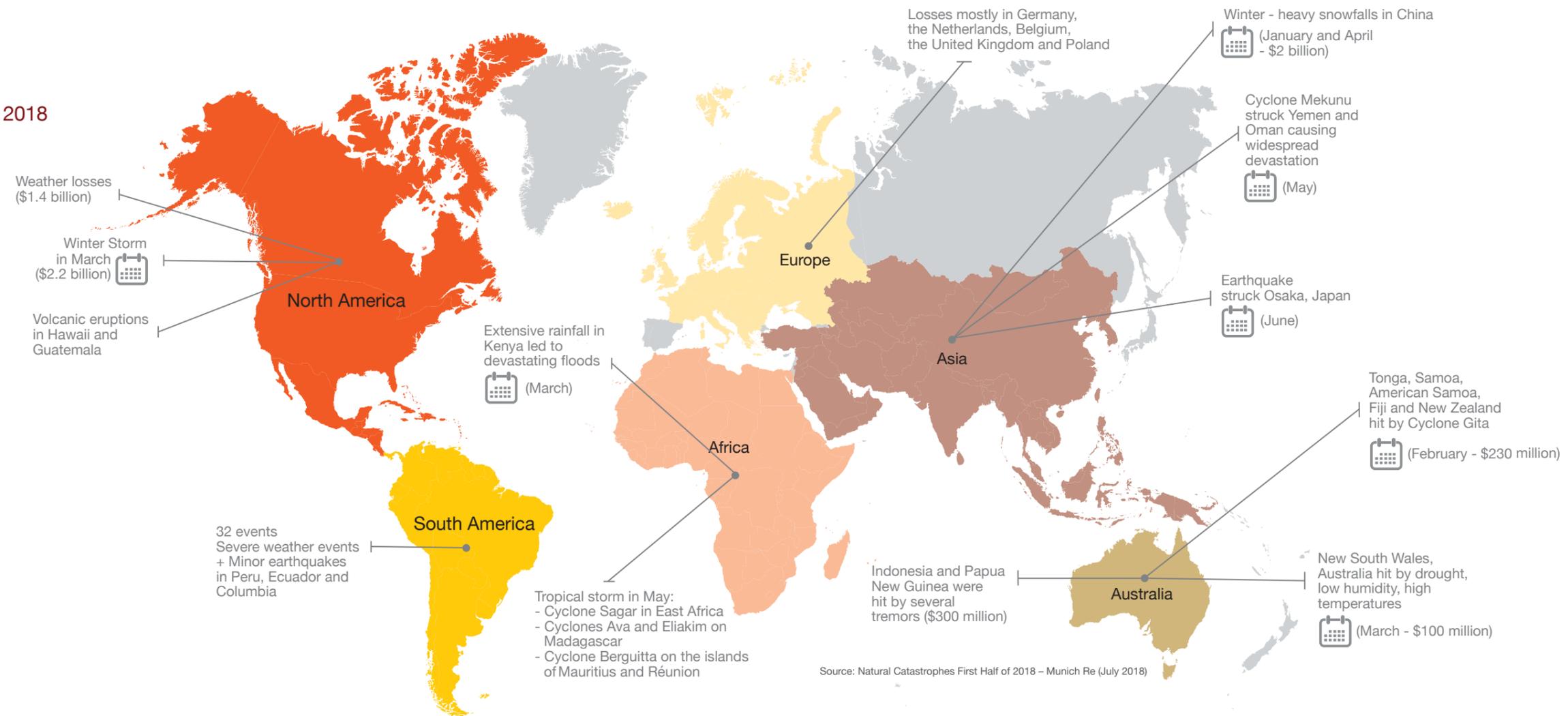
Source: Natural Catastrophes First Half of 2018 – Munich Re (July 2018)

Costliest Natural Catastrophe (in \$ billion)



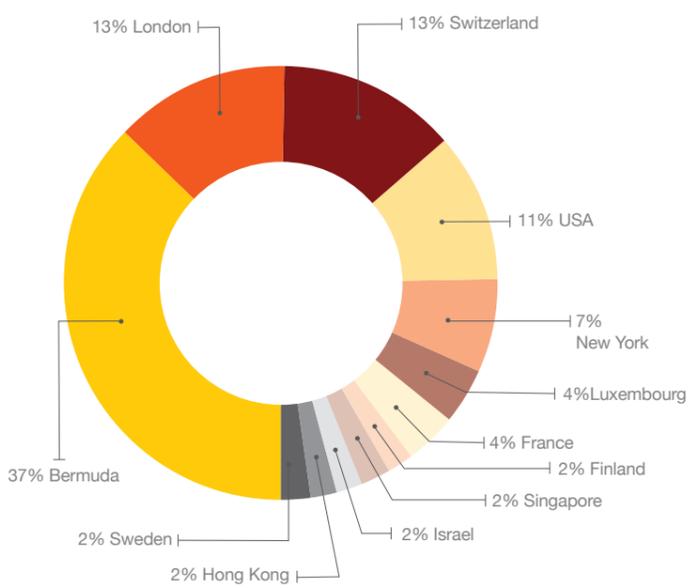
Source: Natural Catastrophes First Half of 2018 – Munich Re (July 2018)

Main Events as at H1 2018



Source: Natural Catastrophes First Half of 2018 – Munich Re (July 2018)

Insurance Linked Securities (ILS) Managers Distribution



Source: Artemis

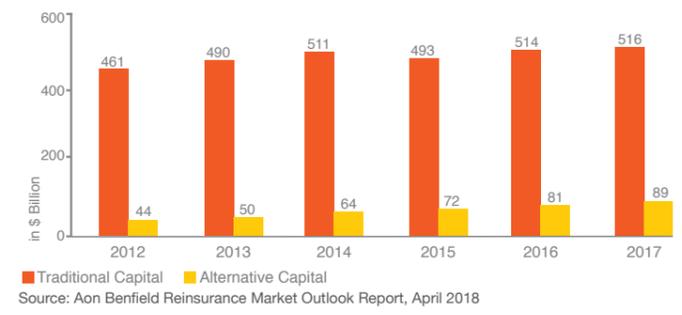
ILS supporting insurance resilience

Reinsurance capacity is well positioned to handle high losses supported by the Alternative Capital Market

Natural catastrophe events were one of the reasons for major losses which hit the global reinsurance market in 2017, causing economic losses of around \$320 billion that year. Both the private market and government programs covered the insured losses of up to \$128 billion, as estimated. Hence, the insurance coverage ratio for NATCAT showed 40% only, highlighting protection gaps. The year of 2017 highlights that traditional reinsurers were well-capitalized in such events, whereby most of the risk was retained by primary insurers and the catastrophe exposure had been waived to the capital markets. The supply of reinsurance benefits through traditional capital and alternative capital covered the losses and boosted the reinsurers' capacity.

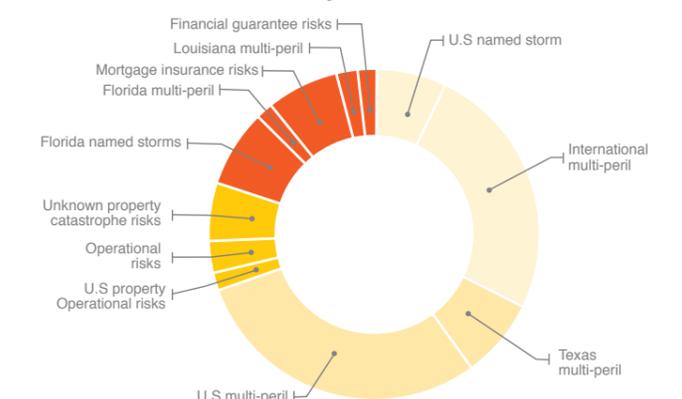
Global reinsurance market dynamics have changed, shared between traditional and alternative capital. Based on Aon Benfield estimates, global reinsurance capital stood at \$600 billion as at September 2017, compared with \$82 billion of alternative capital. By the end of 2017, the non-life ILS capital in the reinsurance market reached \$88 billion. By H1 2018, the ILS market registered 20 new deals with an average deal size of roughly \$ 365 million. Overall, notional outstanding in the ILS market was USD 29.11bn at the end of 1H 2018, up 8.39% from the year-end total in 2017 of USD 26.85bn. ILS and alternative capital providers have helped reinsurers because more varied risks are covered, and are better spread into the capital markets, as well as among traditional reinsurers. Institutional investor capital has helped spread eventual losses more widely, thus alleviating volatility from the overall reinsurance market capital.

Global Reinsurance Capital Structure

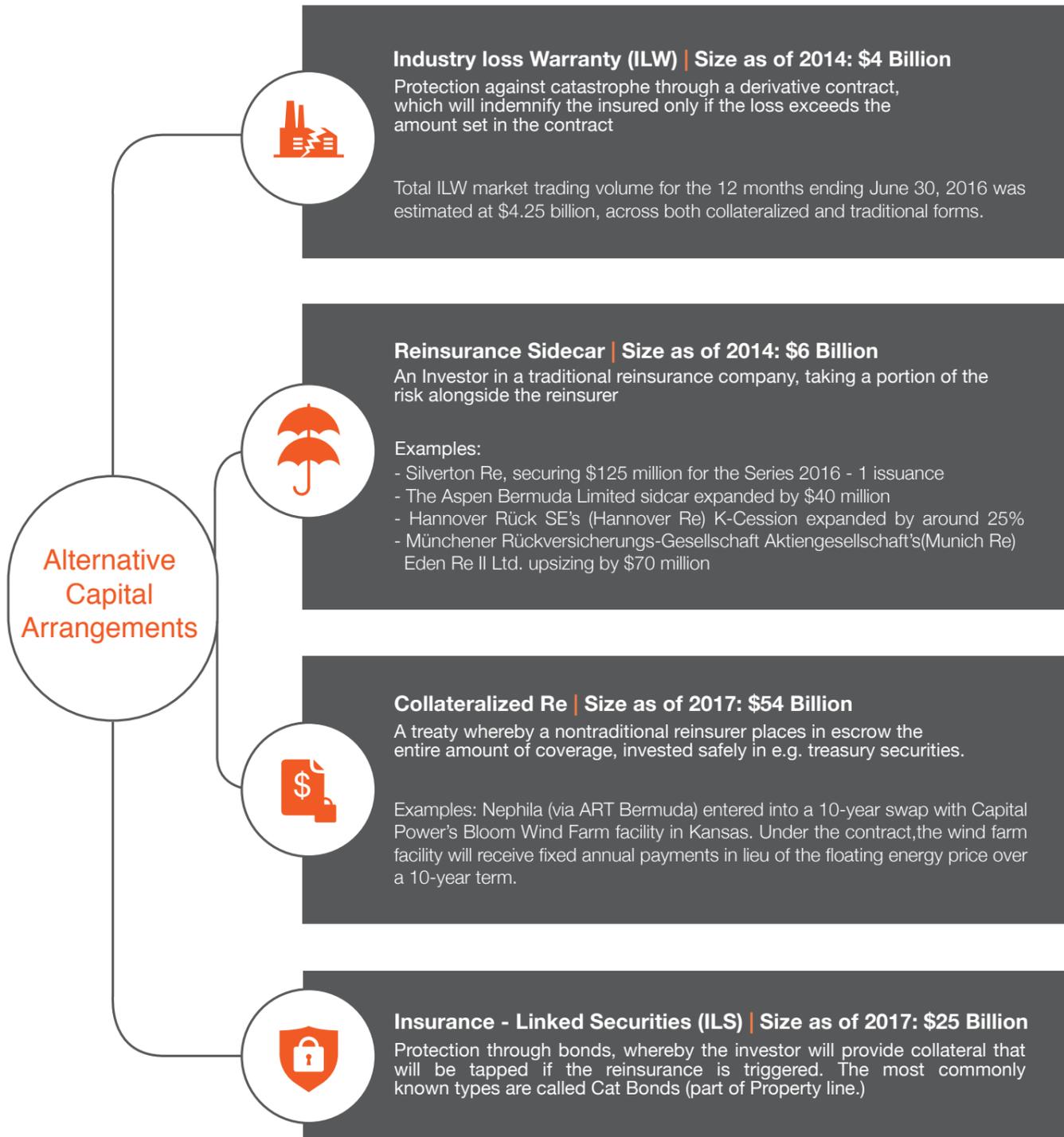


Source: Aon Benfield Reinsurance Market Outlook Report, April 2018

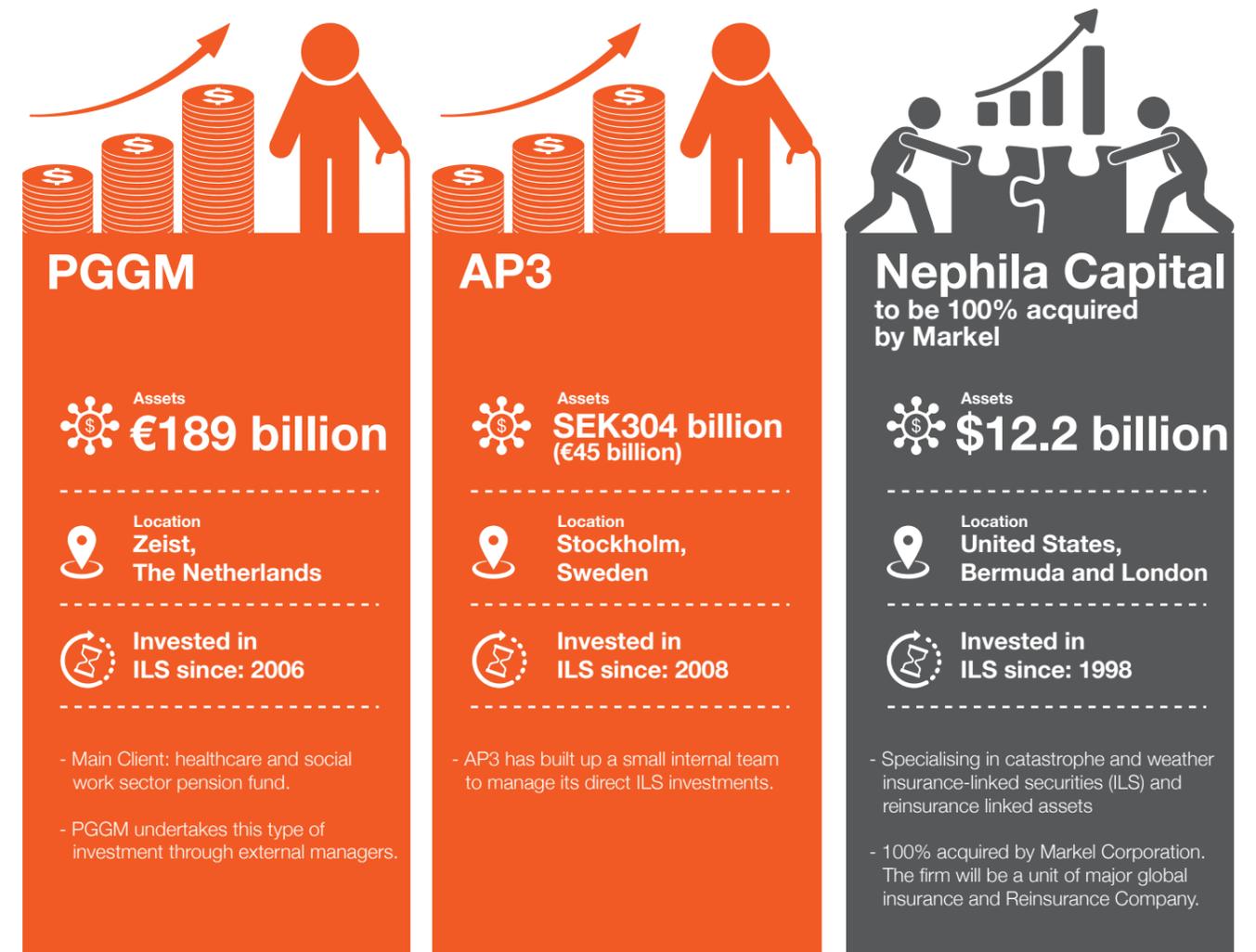
2018 H1 ILS issuance by Peril



Source: ARTIMES Q2 2018 Catastrophe Bond & ILS Market Report



Source: Aon Benfield Reinsurance Market Outlook Report, Jan 2018



Pension funds are new areas of Alternative capital arrangements which play a great role in enhancing the protection gap position. To date, the protection gap remains very large, and the global pension gap is set to increase from about \$70 trillion today to roughly \$400 trillion by 2025.

Merger and acquisition between insurance-linked securities experts and insurance/reinsurance companies opening doors for exchanging experienced and talented management team with Insurtech, fronting and insurance-linked securities capabilities to enhance and strengthen the breadth and depth of offerings to policyholders, producers and investors.



Trust Re Experts' Viewpoints

New Areas of Development

As ILS expands in deal size and volume, the number and types of market participants also changed. With more market maturity, new entrants have emerged. On the buy-side, pension funds and other institutional investors have become more active participants. On the sell-side, new types of sponsors such as sovereign sponsors, are issuing ILS to support the risk-capital value chain by supporting the reinsurance capacity and improving ecosystem's efficiencies. Hedge funds were key investors in ILS previously, but now the pension funds have increased their participation in the market. Some prominent examples are large Nordic and Dutch pensions funds, e.g. the Swedish buffer fund AP3 and the Dutch giant PGGM, with smaller ones entering the market later, particularly in Switzerland.

Market Hurdles

The limited availability of data leads to:

Difficulties in understanding the risks

Makes it hard to model and price ILS

An imbalance between demand and supply of ILS

It exacerbates the impact of information asymmetries between managers and investors

Increases the potential for mispricing risk.

Expert Viewpoint

Following the HIM losses of 2017, many observers expected the ILS market to shrink or retrench somewhat. This has not happened; in fact, it has continued to expand. It therefore appears that the ILS market will continue to grow at a higher rate than conventional reinsurance for the foreseeable future. However, the various ILS structures require a significant amount of risk assessment and modeling which may not be available for many lines of business or territories for some time (if ever). Therefore, for many markets and /or lines of business, ILS will not be a viable option. In such cases, more traditional reinsurance structures will continue to play the key role.

ILS began with Catastrophe Bonds back in the 1990s. We have already seen the securitization concept move into the Life sector, which makes sense given the high level of actuarial information and statistical modeling available. This will no doubt continue to expand. It is also very likely that ILS will develop in new / additional geographic areas, as the historical exposure and claims information becomes more extensive and comprehensive.

It does not seem that there will be any real substitute for ILS for the foreseeable future. However, some companies' reinsurance programs are already split between traditional placements and ILS. It is probable that we will see some reinsurance programs become more of a "blend" of the two.

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Prepared by Planning and Performance Management Department

