



**NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

Natural Catastrophe Data Analytics Exchange – Outreach Pack



Address by Mr Tharman Shanmugaratnam, Deputy Prime Minister and Chairman, Monetary Authority of Singapore, at the International Insurance Society Global Insurance Forum on 13 June 2016

Emerging Opportunities for Insurance

Catastrophe Insurance

we have an initiative in Singapore called the Natural Catastrophe Data Analytics Exchange

38. But we can solve this problem. We can overcome the fragmentation of data in Asia, pool data so as to facilitate more efficient underwriting of catastrophe risks. Here too, we have an initiative in Singapore called the Natural Catastrophe Data Analytics Exchange (Nat Cat DAX).

- Nat Cat DAX is a public-private partnership, involving several leading global insurers, the public sector and our research institutes;
- It is using high resolution data obtained through remote sensing technologies - from satellites, drones and UAVs - and combining that with industry data to much richer database on natural disasters;
- We welcome more in the industry to join the founding members in this initiative.



NatCatDAX Industry Alliance

- **Founders**

- Aon Benfield, China Re, MSIG, Ren Re, RMS



- **Strategic Partners**

- Allianz, AXA, MAIPARK, Munich Re, Partner Re



- **Partners**

- Axis Re, QBE, Willis Re



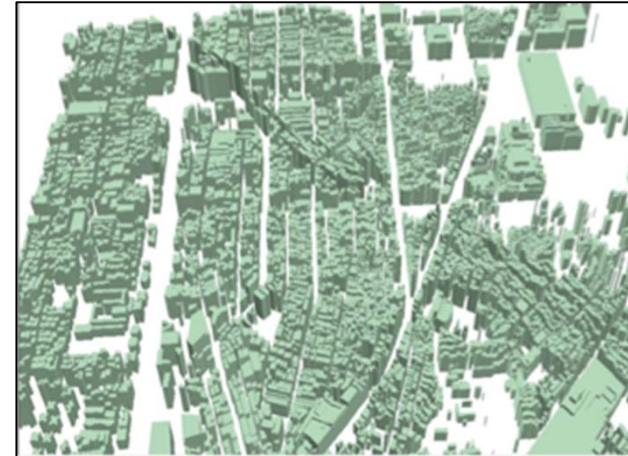
- **Research & Production Consortium**

- ICRM/NTU, PERILS, and Sinotech



NatCatDAX Initiative: Goals

- For Re/Insurance Industry:
 - NatCatDAX: Enhanced IED's provide robust data foundation for Nat Cat risk solutions, both conventional and innovative (parametric, loss indices, ... etc)
- For Asia Nations:
 - NatCatDAX leads to significant increase of insurance penetration for the benefits of Asia economies, populations, and insurance industry.



Insurance Exposure and Loss Database: What are the benefits to the industry?

Benefit

- ▶ Free Access for Data Providers
- ▶ Facilitates increased Cat risk liquidity via reinsurance/retro markets
- ▶ Independent and Objective Cat Market Data
- ▶ Exposure and Claims Benchmarking
- ▶ Improved transparency and stability for Cat Risk Cat Risk Modelling
- ▶ Globally accepted and trusted Reporting Agency
- ▶ Used in more than 200 insurance capital market risk transactions facilitating movement of capacity into peak Nat Cat zones including Australia
- ▶ Best-practice legal framework and IT security standards

Cost

- ▶ Resources to prepare data which are usually manageable as the data is commonly prepared by insurers for internal use and reinsurers

