

## **Practice and Prospects of Catastrophe Insurance**

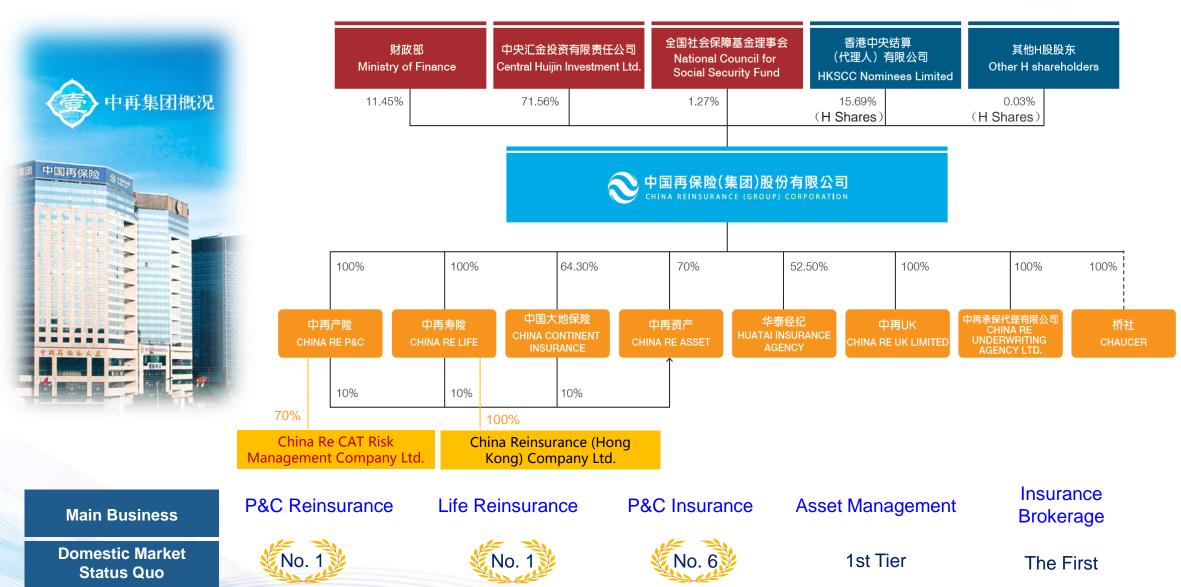
### in Response to Climate Change

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# China Re is a key player of CAT Insurance and has keen concerns about CAT Related Risks





#### Climate Change (CC) has caused severe casualties and economic losses



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#### Global annual average deaths from natural disasters, by period, 1989-2019

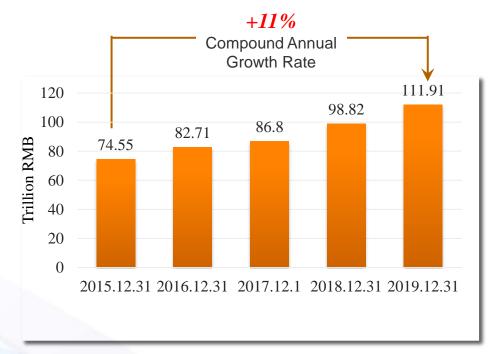
Time period	Annual average deaths per year (persons)			China's annual average deaths as a percentage of Asia (%)	China's annual average deaths in the world (%)
	China	Asia	World		
1989-1998	2920	32204	37382	9.1	7.8
1999-2008	9939	68874	84082	14.1	11.8
2009-2019	1404	10869	41990	12.9	3.3

Global annual average direct economic losses from natural disasters, by period, 1989-2019 (2019 price level)

Time period	Annual average direct economic losses (US\$ 1 billion)			China's annual average deaths as a percentage of Asia (%)	China's annual average deaths in the world (%)
	China	Asia	World		
1989-1998	18.5	52.7	99.3	35.1	18.6
1999-2008	23.5	52.2	126.3	45.0	18.6
2009-2019	23.2	71.9	164.9	32.3	14.1

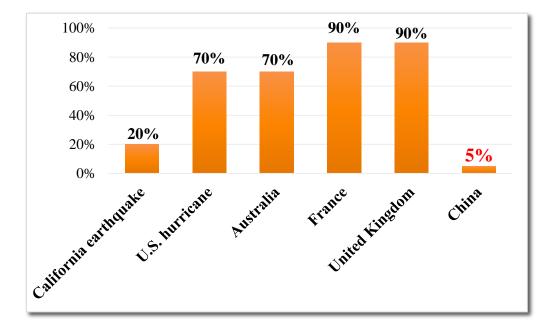
#### CAT Risk Exposure in China is growing rapidly and calls for CAT Insurance or urgently. The situation will be exacerbated by the Climate Change

The industry risk exposure of typhoon/flood disasters in China has reached trillions of RMB and is growing rapidly.



The industry risk exposure of typhoon/flood disasters in China

The insurance compensation rate in **developed countries is higher than 70%**, however, **in China is less than 5%**.



Insurance compensation rate of each country



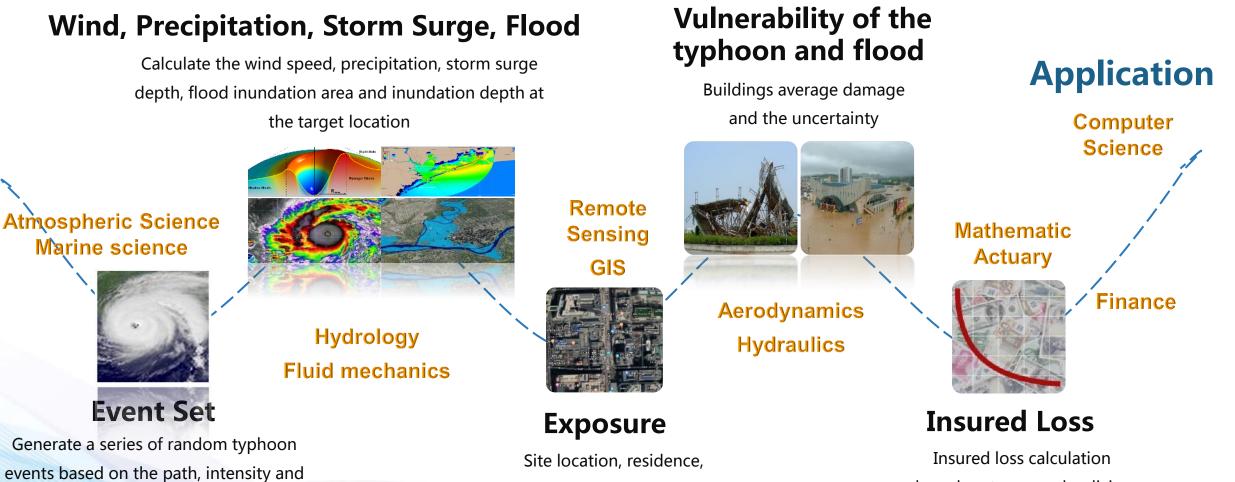


#### CAT Exposure Database and CAT Models for China are bedrocks to Quantify CAT Risks



based on terms and policies

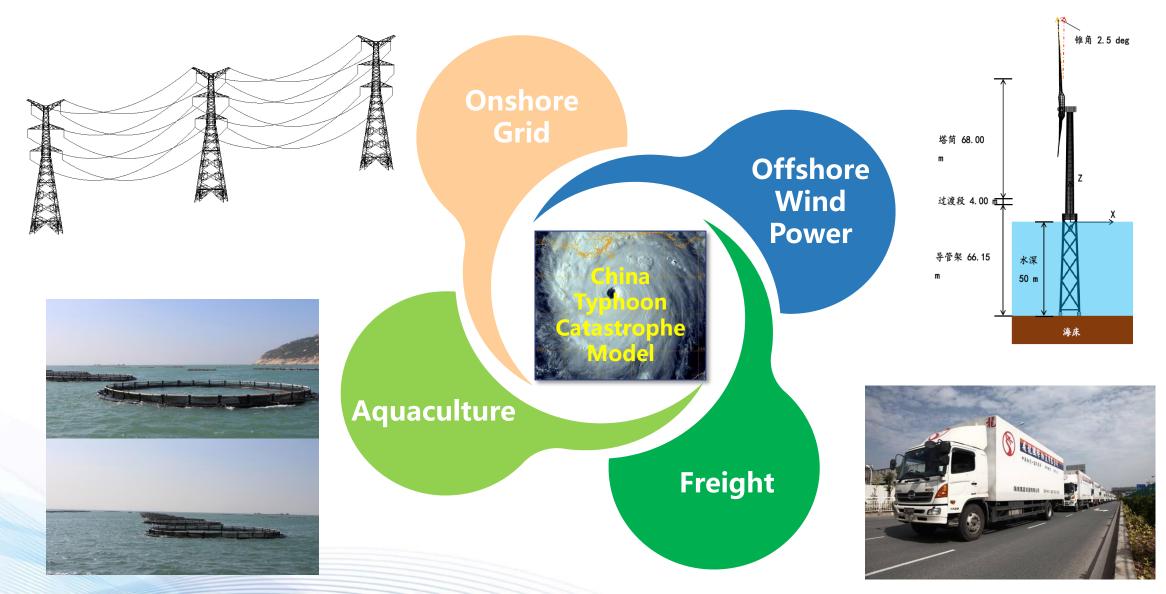
#### (Insured) Risk = Hazard x Exposure x Vulnerability ( x Terms) -



scale of potential typhoons

commerce & industry value

# CAT Models provide holistic and scenario-oriented solutions

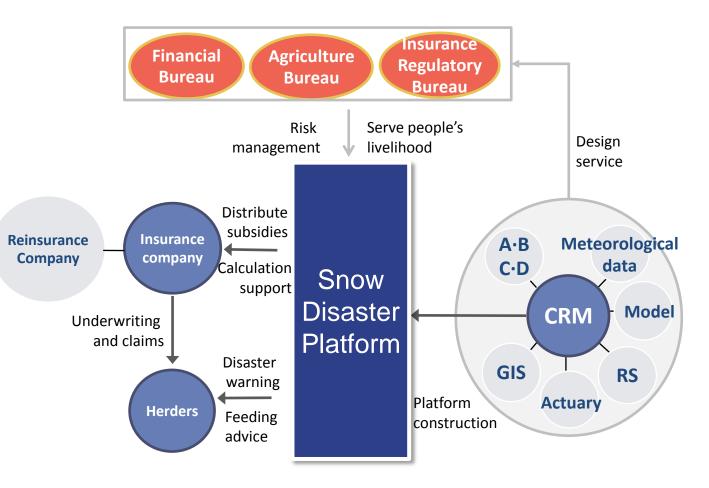


#### Snow Disaster Digital Platform has been deployed in Qinghai Province



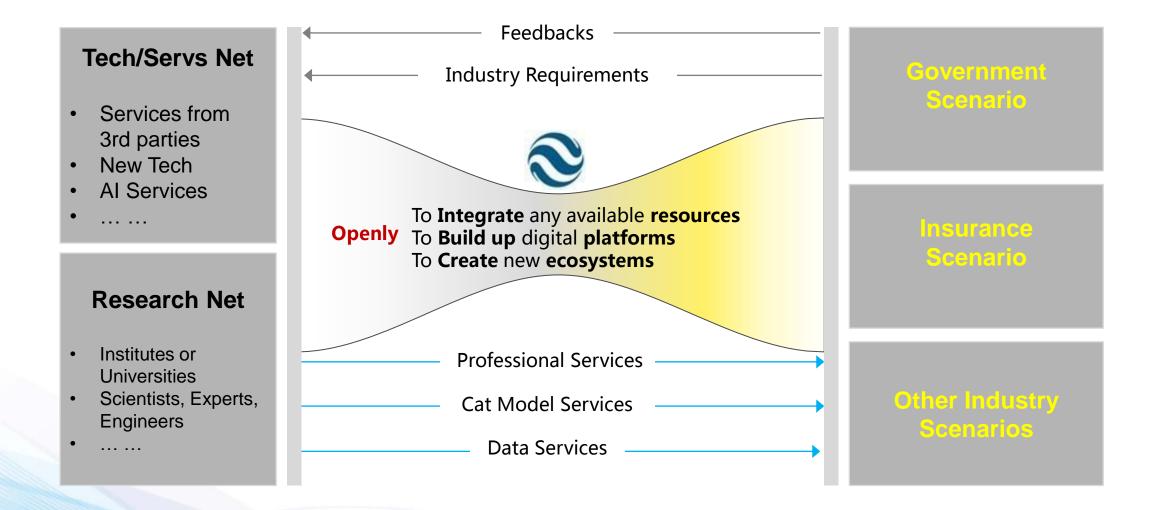
- Case: Risk Management Platform Against Snow Disaster In Grassland Stock Farming
- > Disaster intensity reaches a certain level
- Meets the conditions of claim settlement
- Insurance compensation will be automatically paid to personal account within two days







#### China Re will include CC researchers openly to innovate Cat Insurance, promoting sustainability in a variety of scenarios



## 巨灾风险管理 服务国家治理

# Bridle Catastrophe Risks | Reinsure Sustainability

