

To Be a Good Company

APAN Forum Climate Adaptation x Disaster Risk Reduction Session

Climate Change Adaptation by Corporates ~an insurance company perspective

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Insurance payment for weather-related disasters

Worst 10 insurance payment for wind, flood and snow (Industry total, including estimates)

Rank	Year	Disaster	District	Payment (US\$M @105)
1	2018	Typhoon Jebi (No.21)	Osaka, Kyoto, Hyogo etc.	10,170
2	2019	Typhoon Hagibis (No.19)	Eastern Japan	5,549
3	1991	Typhoon Mireille (No.19)	Nationwide	5,410
4	2019	Typhoon Faxai (No.15)	Kanto (greater Tokyo area)	4,434
5	2004	Typhoon Songda (No.18)	Nationwide	3,690
6	2014	Snowfall	Kanto (greater Tokyo area)	3,070
7	2018	Typhoon Bart (No.18)	Kyushu	2,997
8	2018	Typhoon Trami (No.24)	Tokyo, Kanagawa, etc.	2,915
9	2018	Heavy Rain	Okayama, Hiroshima etc.	1,863
10	2015	Typhoon Goni (No.15)	Nationwide	1,564



How climate change affects business activities

Business resources and activities	Examples of climate change impacts
Buildings & equipments	Increasing frequency and cost of damages to facilitiesIncreasing need for relocation
Workforce	Increasing health risksEmployee lives and difficulty in commuting
Manufacturing & operation	Damage to manufacturing plants or business interruptionDeterioration of product quality or limited water usage
Logistics	Supply chain disruptionAvailability or quality of raw materials, rising procurement costs
Clients/ Consumers	 Change in client needs or customer preferences Change in trade or lending conditions

Nudging businesses for enhanced climate resiliency

Flood risk assessment offered by Tokio Marine

What corporates are looking for

- How much are we going to suffer from climate change in the worst case?
- □ Are we sufficiently protected?
- How can we improve our risk management? (especially companies with multiple locations)





Tokio Marine's response

Estimating Probable Maximum Loss (PML)

PML

- Analysis on probabilistic loss estimate
- Recommendations to improve disaster resiliency
- Share good practices

Flood map used for city planning



THE DESIGN AND ADDRESS OF ADDRESS



Key features of NADIAct (Natural catastrophe Alert Dashboard for Initial Action)

- 1. Real-time display of disaster conditions throughout Japan
- 2. Displays recommended initial action in the face of disasters
- 3. Offers advices on day-to-day disaster response





APEC Finance Ministers' Process and Disaster Risk Financing and Insurance (DRFI)

"We recognize the importance of developing robust financial management to address increasing disaster risk in the Asia-Pacific region."

Key milestones of APEC FMP's work on DRFI



(APEC Finance Ministers' Meeting Joint Ministerial Statement, 17 Oct. 2018)

