

2019/EPWG/DIA/011

Agenda Item: 8.2

Insurance for Disaster Risk Management

Submitted by: Japan



APEC Resilience Week Taipei, Chinese Taipei 30 September - 2 October 2019

Policy Dialogue 2

- Global Value Chain and Supply Chain Resilience through Public Private Partnership

Insurance for Disaster Risk Management

APEC Resilience Week

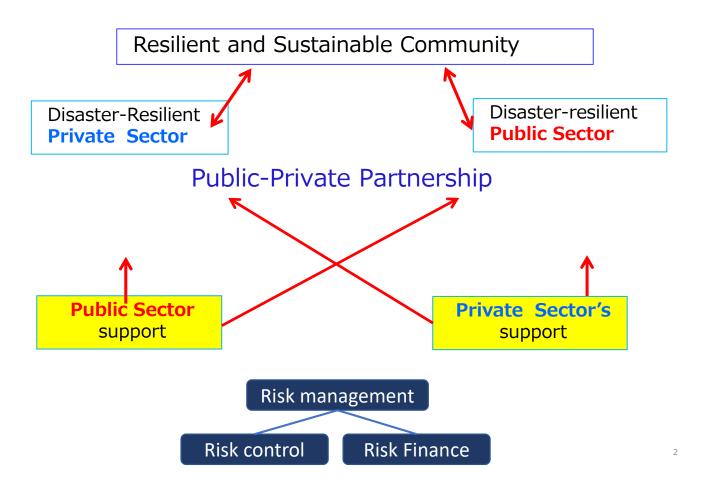
30th September 2019



Asian Disaster Reduction Center (ADRC)

Takahiro ONO

Public-Private Partnership - for Sustainable Community



Insurance Market in Japan

1996 New Insurance Act

Market Liberalization start

Competition intensify

Market reorganized

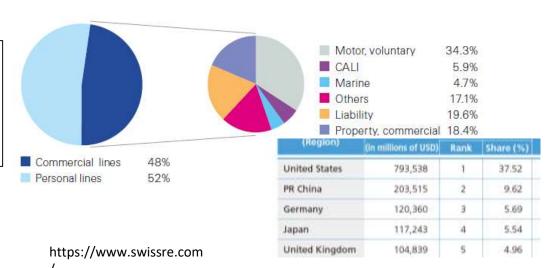
Insurance Company domestic 30 / foreign 22



Insurance Agents 630,000 (1996) ⇒ 190,000 (2016)

Car Dealers 52% / Pro Agent 19% / Real Estates 12% / Travel Agent 1% / Banking 1%

9,279.0 billion yen
Net premiums:
8,380.6 billion yen



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Historical Event for Insurance Market

1995 Jan 78 bill JPY
Great Hanshin Awaji Earthquake/ Kobe Earthquake





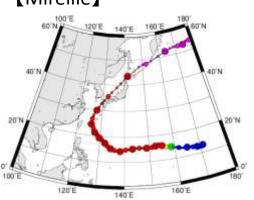


2011 March Great East Japan Earthquake





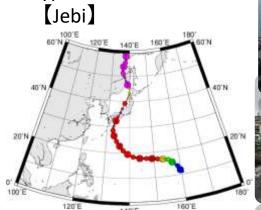
1991 Sep Typhoon No.19 [Mireille]



568 bill JPY



2018 Aug
Typhoon No.21



1,068 bill JPY

1,283 bill JPY



http://agora.ex.nii.ac.jp/digital-typhoon/summary/wnp/s/199119.html.ja

Historical Event for Insurance Market

No.	Earthquake	Date	Amount Bil. JPY
1	Great East Japan Earthquake	11 th March 2011	1,283
2	Kumamoto Earthquake	14 th April 2016	386
3	North Osaka Earthquake	18 th June 2018	107
4	Great Hanshin Awaji Earthquake	17 th Jan. 1995	78
5	Hokkaido East Earthquake	6 th Sep. 2018	39

No.	Hydrolog ical	Area	Date	Amount Bil. JPY
1	Typhoon No.21	Osaka, Kyoto, Hyogo	Sep. 2018	1,068
2	Typhoon No.19	All Japan	Sep. 1991	568
3	Typhoon No.18	All Japan	Sep. 2004	387
4	Heavy Snow	Kanto region	Feb. 2014	322
5	Typhoon No.18	Kyushu region	Sep. 1999	314
6	Typhoon No.24	Tokyo, Kanagawa, Shizuoka	Sep. 2018	306
7	Heavy Rain	Okayama, Hiroshima	July 2018	196

Public Support for Personal Line / Community

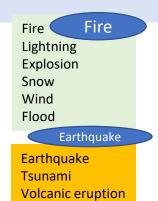
Earthquake Insurance

1964 Niigata Earthquake lead to Earthquake Insurance Law Funded by government. Only for Personal Residence and Property Additional coverage with FIRE INSURANCE Amount Insured 30%-50%

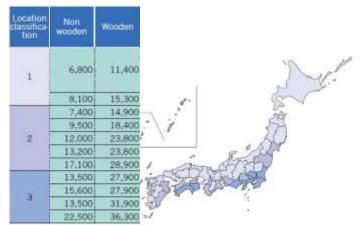
If your house amounts 10Mill JPY EQ covers 3-5Mill JPY





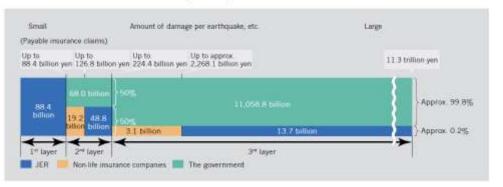


Payment 4 types (Total loss 100%, Large half loss 60%, Small half loss 30%, Partial Loss 5%) Rate depends on the region and building structure.



Wooden Tokyo house is most expensive

REINSURANCE SCHEME (APPLICABLE TO EARTHQUAKE, ETC. THAT TAKE PLACE AFTER APRIL 1, 2017)



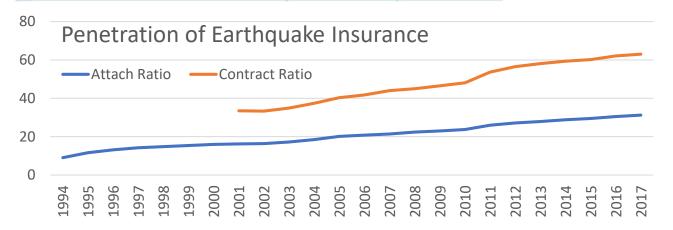
Public Support for Personal Line / Community

Earthquake Insurance

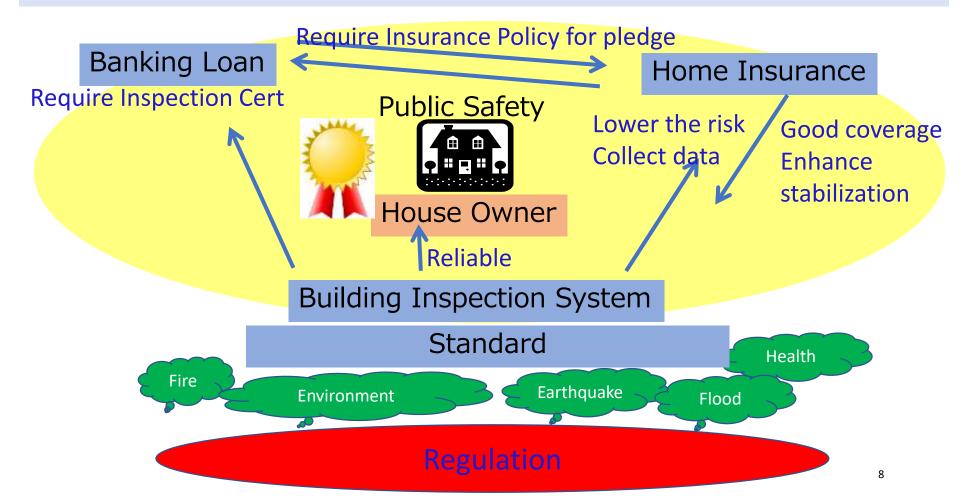
20 La	argest Claims Paid for Earthquake	(in billions of yer		
	Earthquake (Region name)		Date	Claims Paid *1
1	The 2011 off the Pacific coast of Tohoku *2	812,000 houses	Mar. 11, 2011	1,279.5
2	The 2016 Kumamoto	206,000 houses	Apr. 14, 2016	382.4
3	Hyogo-ken Nanbu	65,000 houses	Jan. 17, 1995	78.3
4	Miyagi-ken-oki *2	31,000 houses	Apr. 7, 2011	32.4
5	Fukuoka-ken Seiho-oki	22,000 houses	Mar. 20, 2005	17.0
6	Gelyo		Mar. 24, 2001	16.9
7	Niigata-ken Chuetsu		Oct. 23, 2004	14.9
8	Niigata-ken Chuetsu-oki		Jul. 16, 2007	8.2
9	Fukuoka-ken Seiho-oki		Apr. 20, 2005	6.4
10	Tokachi oki		San 26 2003	60

Help households reconstruct their livelihoods.

Especially avoid double loan situation.



Public Safety enhanced by Building Inspection System



As for Commercial Line

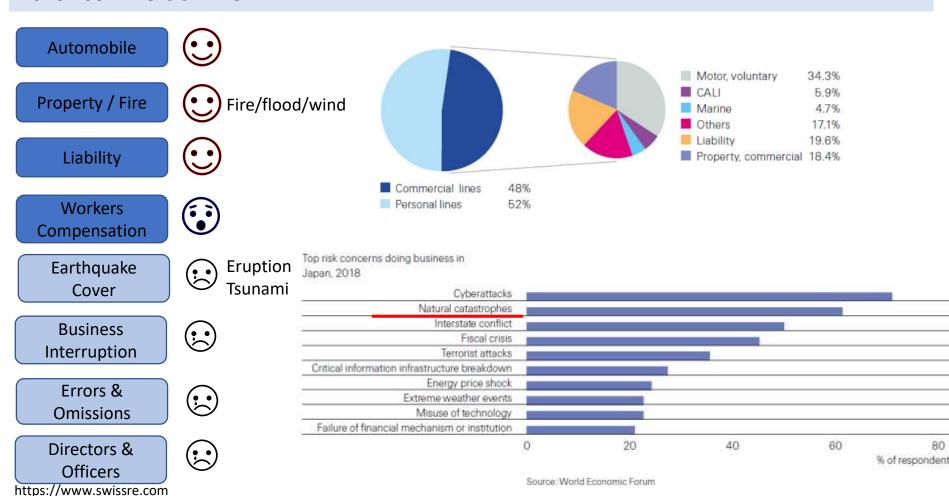
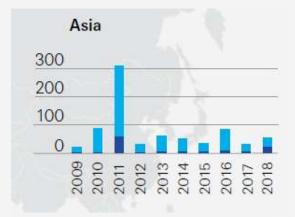


Figure 4

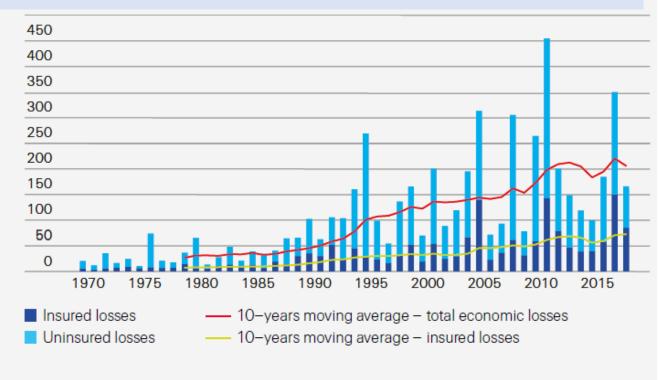
Insured vs uninsured losses, 1970–2018, in USD billion at 2018 prices







Insured vs Uninsured Loss



Economic losses = insured + uninsured losses

Source: Swiss Re Institute

Natural catastrophe risk

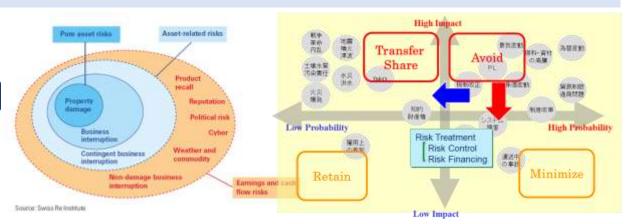
Risk management

Risk control

Retro fit
Alternative site
BCP / BCM
Diverse

Risk Finance

Insurance
Derivatives
Cat bond
Commitment line



Major issue for Commercial Line remain at the core of property risks.

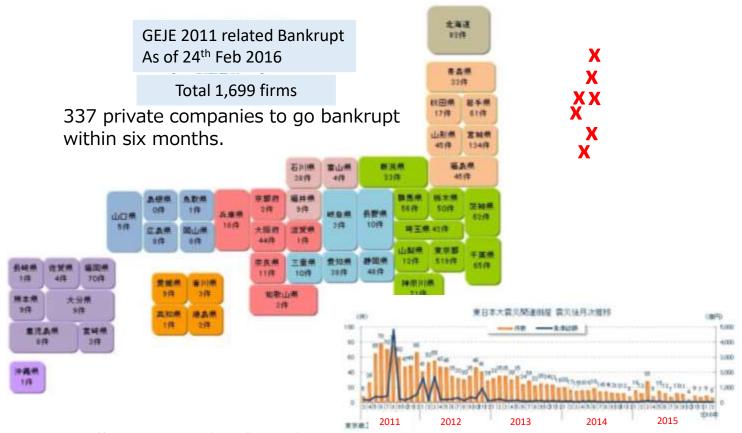
Asset losses or disruption to production can reduce reliability and credit might lead to bankruptcy.

In addition to human and property loss, disruption to business operations and loss of output, Business Interruption risk has become a major concern for businesses.

While earthquake cover was supported by government for personal lines, insurance company provide the coverage very limited and in high rate of premium.

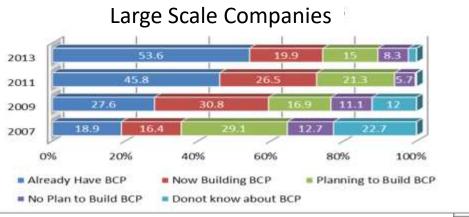
Therefore the coverage of EQ and BI for the commercial line is very low in Japan.

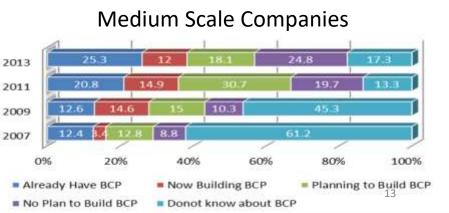
Supply Chain Reaction by Indirect Losses



Risk Control ----- Government Strategy on Business Continuity by 2020

- Raise Business Continuity Planning adoption ratio
 Large scale companies 18.9%(2007) → 100%
 Medium scale companies 12.4%(2007) → 50%
- ◆ Cabinet Office published several guidelines e.g. "BCM Guideline (2005) " >>> version 3 published in 2014 http://www.bousai.go.jp/kyoiku/kigyou/keizoku/sk 04.html
- ◆ ISO22301/22313 Business Continuity Management System (2012)
- ◆ JIS Q 22301/ JIS Q 22313 Business Continuity Management System (2012)





THE LOTTING

Resilient SME Act 2019

◆ Establish framework to certify BCPs of SME and to raise awareness and strengthen disaster response ability.

Implementation plan will be

- ✓ Recognize natural hazard may affected your company
- ✓ Organize internal structure
- ✓ Safety confirmation, damage assessment, contact method to supplier and customer
- √ Necessary equipment
- ✓ Necessary working capital, preparation of appropriate insurance
- **✓** Agreement on alternative production and support with other companies
- ✓ Education and training for employees
- ◆ SMEs are able to
 - Participate study workshop how to develop BCPs
 - Get support from experts/consultants
 - > Tax merit when installing Disaster Risk Reduction facilities (depreciation)
 - Low interest rate loan, Subsidy, Credit guarantee

Rating your BCP Development Bank of Japan

- How to measure the level of BCP/BCM?
- Is ISO Certification enough?
 The solution of BCM rating

Rating and communication: 100 questions



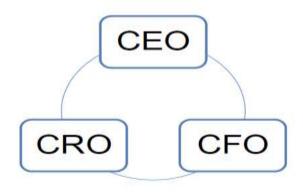
Disaster Risk Reduction

- A Corporate disaster prevention system
- B Life and safety preservation measures
- C Contribution to community and regional disaster prevention efforts
- Disaster drills (emergency response, initial response, etc.)
- Outstanding disaster prevention initiatives
- F Compliance

Business Continuity Management

- G Preparation of basic policy, business continuity framework, business continuity risk assessment
- H Business impact analysis (BIA)
- Strategic thinking on business continuity
- J Outstanding components of business continuity plan
- K Risk management for supply chain and value chain
- L Business continuity education: training and review
- M Cooperation on BCM with others in industry
- N Communication and publicity activity on risk and risk management
- O Outstanding initiatives in business continuity management

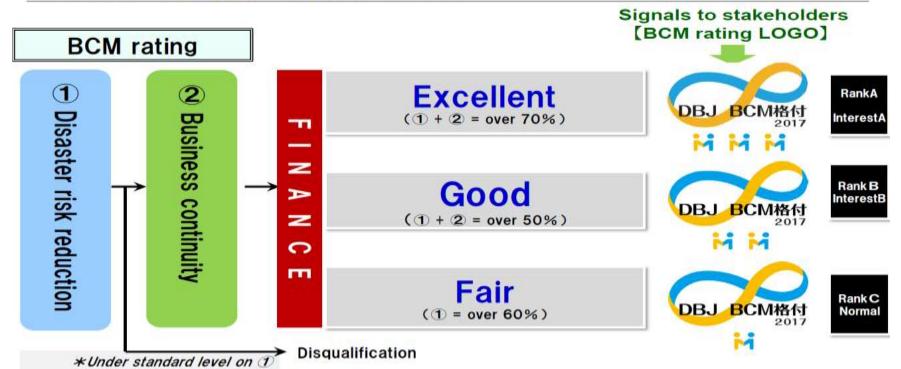




Case from Development Bank of Japan

Development Naris of Japan Ins. Applying Provided Expertises to Dissign the February

The solution of BCM rating Product design, rating process



Development Bank of Japan Inc. Applying Pinassial Expertise to Design the Patrons

The solution of BCM rating

Track records: 277deals & 29.9USDbillion (2012FY-2016FY)



























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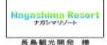














大建工業 様













































NEE

西武ホールディングス 様















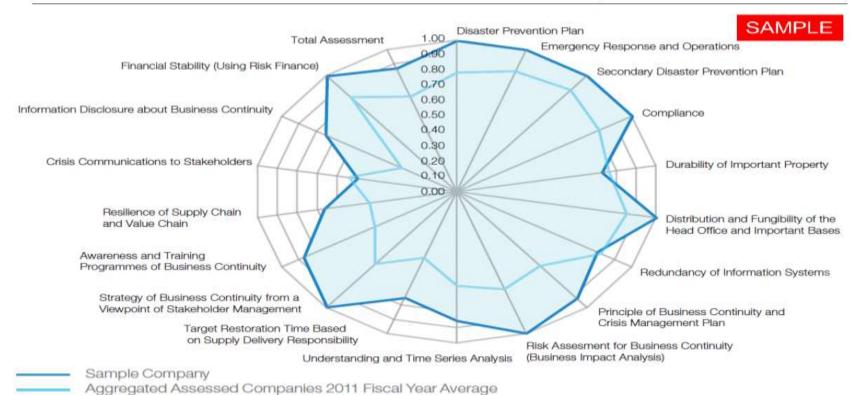
ニッポン高度紙工業 様

壓久島電工 様 東洋合成工業 様

ケーブルメディアワイワイ 禅



The solution of BCM rating Feedback: The communication tool to CEO,CRO and CFO



Export Credit Insurance (Guarantee)

- Marine Insurance / Cargo Insurance / Hull Insurance
 Cover losses incurred from damage to exported cargo during voyage.
- Export Credit Insurance

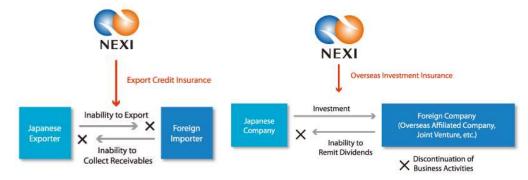
Covers risks that arise from trade transactions and overseas investment which not covered by marine insurance.

- ➤ Political Risks war, revolution, natural disasters, Restriction/prohibition of imports etc.
- > Commercial Risks Buyer's bankrupt
- Role
- Trade and Investment Insurance Act Established NEXI

Providing Sense of Security

The company will be able to continue conducting business activities without suffering great damages.

Not only protects business activities but contributes to the stable development of industries.





Way Forward

- ✓ Personal Line (Community)
 - Regulation and standard with conformity assessment
- ✓ Commercial Line (Private Sector)
 - Consider coverage of Earthquake Insurance
 - Consider coverage of Business Interruption to secure supply chain
 - Promote effective BCPs
- ✓ Risk Control is the only way to reduce likelihood of the risk, not Risk Finance.





Thank you for your attention

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