Lessons from Great East Japan Earthquake

Lessons from Tohoku and other Mega Disasters for the Post-2015 Global Framework for DRR

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Outline

- 1. Lessons from Great East Japan Earthquake
- 2. Conclusion: for the Post-2015 Global Framework



1. Lessons from Great East Japan Earthquake

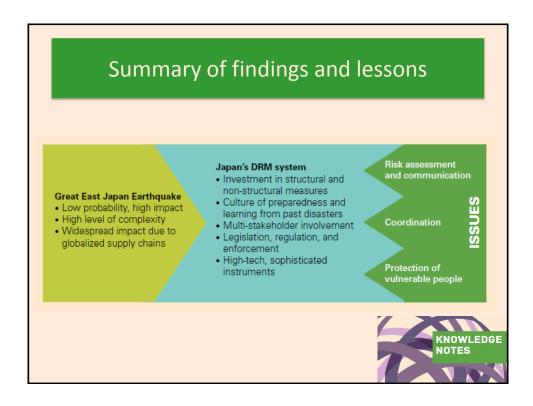


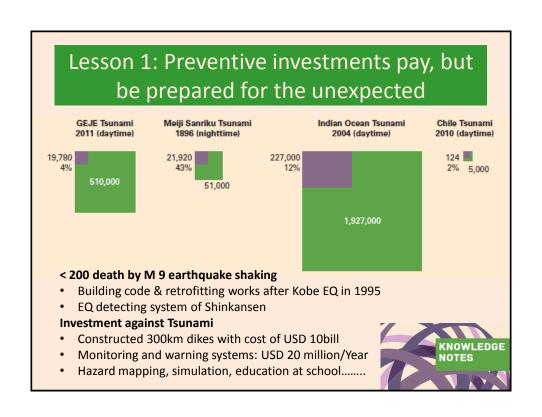
The Knowledge Notes

Learning from Megadisasters

- 1. knowledge-sharing project by the World Bank and Japan
- 2. collecting and analyzing information, data, and evaluations performed by academic institutions, NGOs, government agencies, and private sector
- 3. sharing Japan's knowledge on disaster risk management (DRM) and post-disaster reconstruction with countries vulnerable to disasters.







Lesson 2: Learning from disaster is key, as Japan has shown for the past 2,000 years

 Culture of preparedness, where training and evacuation drills are systematically practiced at the local and community levels and in schools and workplaces;



Sendai City

• **Fire corps** saved uncountable number of people's lives.



Lesson 3: DRM is everyone's business

- Community play crucial role in every measures
- Insurance, as well as financial and fiscal measures;



Issue 1 Risk assessment and communication

- Assessing risks and communicating them clearly and widely helps citizens make timely decisions to protect themselves
 - Hazard maps can give the public a false sense of safety, if not properly communicated
 - Better management of information and communication is crucial in emergencies and recovery operations Sendai City





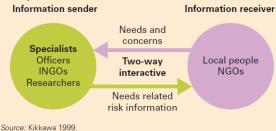
Observed Mj 7.9.
 Issued tsunami information:
 meters in Iwate and Fukushima, and 6 meters in Miyagi.

JMA



KNOWLEDGE

Never top-down, but interactive communication.



- Governments and community members should
 - (i) be aware of limitations of technology, and
 - (ii) Never stick to a single scenario.

Issue 2 Coordination

 Coordination mechanisms must be developed and tested in normal times,
 so that they are ready in emergency



Issue 3 Vulnerable Vulnerable groups must be protected—and engaged Gender - Handicapped Elderly 100% 90% 80% 70% 60% 50% 40% 30% 20% Age70~79 10% CAO

Extreme disasters underscore the need for a holistic approach to DRM

- Exclusive reliance on structural measures ultimately prove ineffective
 - Resilient structure: complexity and residual risk. "fail gracefully"
 - supplemented with nonstructural measures
 - understand uncertainties of estimation of events



Sharing experiences with others

- Set of 32 Knowledge Notes grouped into six thematic clusters -http://wbi.worldbank.org/wbi/megadisasters;
- A Capacity development program, which includes:
 - A community of practice: https://collaboration.worldbank.org/groups/login.jspa
 - A searchable set of online material, blended learning and
 Face to face capacity building program in selected countries;
 - In depth Capacity Development program in pilot countries.



Conclusion Lessons for the Post-2015 Global Framework

Confirmed importance of

- "creating DRM culture"
- "DRM is everyone's business"

Conclusion Lessons for the Post-2015 Global Framework

- Useful Lessons
 - 1. Preventive investments pay, but be prepared for the unexpected
 - 2. Risk Communication
 - 3. Holistic approach by combining structural and nonstructural measures.

