

Anti-Tsunami Measures in Asia Pacific Region

Yuko Morikawa
Japan International Cooperation Agency,
JICA Peru Office

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Sendai Framework for Disaster Risk Reduction(2015-2030)

<Outcome> The substantial reduction of disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries.

<p>1: Understanding disaster risk</p> <p><Priority for Action></p>	<p>2: Strengthening disaster risk governance to manage disaster risk</p>	<p>3: <u>Investing in disaster risk reduction for resilience</u></p>	<p>4: Enhancing disaster preparedness for effective response, and to <u>Build Back Better in recovery, rehabilitation and reconstruction</u></p>
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<Target>

5. Increase the number of countries with national and local DRR strategies

1. Reduce disaster mortality
2. Reduce the number of affected people
3. Reduce economic loss
4. Reduce damage to critical infrastructure
6. Enhance international cooperation
7. Enhance access to disaster risk information



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2020

2030

International Frameworks (SDGs, WTAD, COP)



COP21 - CMP11
PARIS 2015
UN CLIMATE CHANGE CONFERENCE

1st Meeting on Paris Agreement
(Adoption of Rules)

Applicable to All

Comprehensive

Durable

Progressive

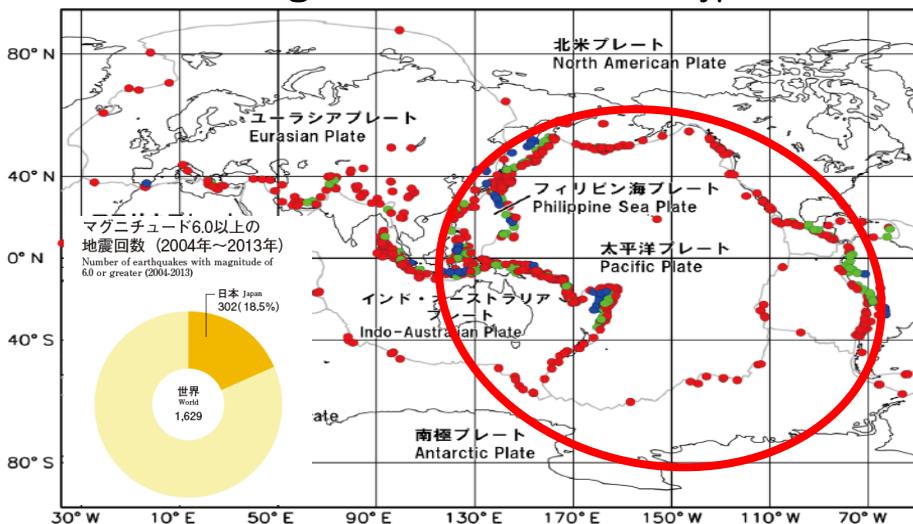


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APEC members share many common issues

World Geographical Distribution of Hypocenter



Source: DRR White Paper, Cabinet Office, Japan
Japan International Cooperation Agency

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Damages by Tsunami



Chile Earthquake and Tsunami in 1960: Tsunami affected northeast of Japan.

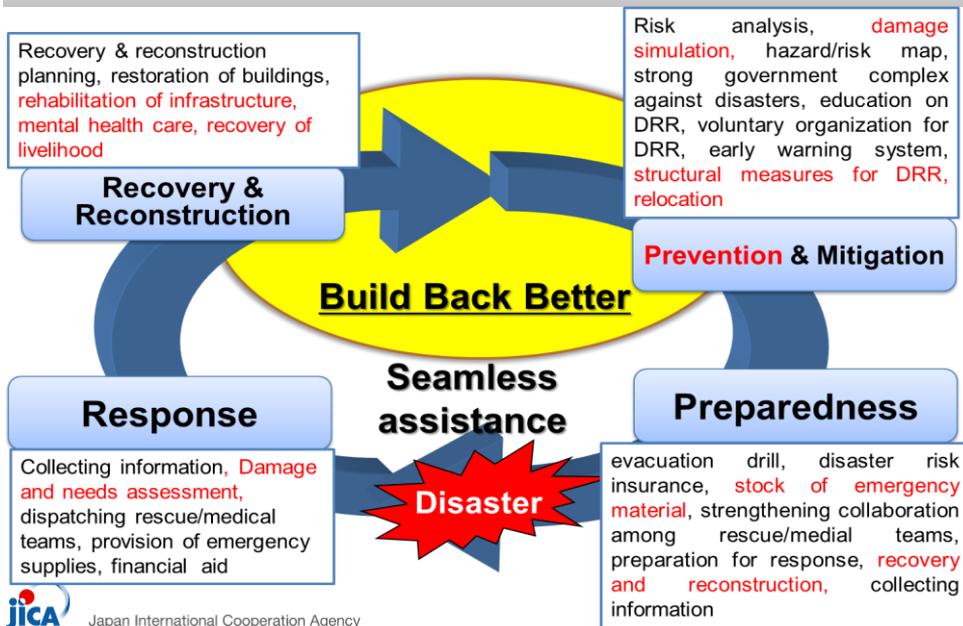


Tsunami by the great north-east Earthquake in Japan 2011



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JICA in Disaster Risk Reduction



JICA's Development Strategic Goals focusing on Disaster Risk Reduction



Cases of Cooperation for Countermeasures against Tsunami in Peru

<p>< Grant Agreement (G/A) > The Project for Improvement of Equipment for Disaster Risk Management (★ Tide Gage, ◎ Transmitter of EWBS)</p>	<p>< Loan Agreement (L/A) > Stand-by Emergency Credit for Urgent Recovery (SECURE)</p>
	<p>< Technical Cooperation (T/C) > 1) Project for Enhancement of Earthquake and Tsunami Disaster Mitigation Technology and "Follow-up" in Peru (★ Project Site) 2) Implementation of Emergency Warning Broadcast System(EWBS) Expert 3) Training Course on Countermeasures against Tsunami</p>

0 100 200 (km)

Case 1: “Project for Enhancement of Earthquake and Tsunami Disaster Mitigation Technology and Follow-up in Peru ” (T/C) with CISMID-UNI

- Development of technologies and measures for earthquakes and tsunamis risk evaluation and mitigation
- Assistance of strengthening the disaster prevention education



Tsunami Flood Map
Japan International Cooperation Agency

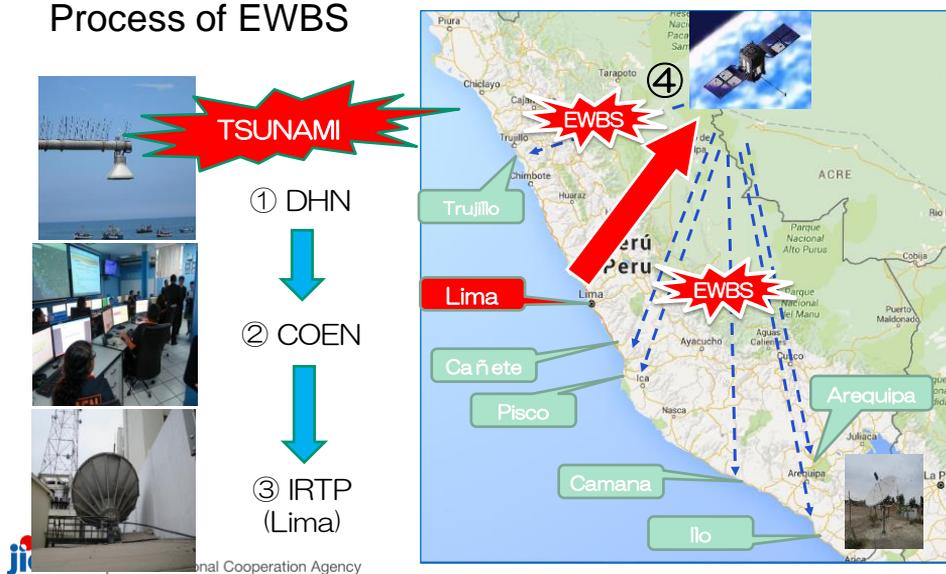


Disaster Prevention Awareness Center

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Case 2: “The Project for Improvement of Equipment for Disaster Risk Management” (G/A) with INDECI

Process of EWBS



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Case 3: “Stand-by Emergency Credit for Urgent Recovery” (SECURE, L/A) with Ministry of Economy and Finance

- Conclusion of a contract of Stand-by Emergency Credit for Urgent Recovery (\$100 MM aprox.) on March, 2014.
- Assistance for enhancement of capacity for disaster risk management of the Government of Peru
- Assistance for early recovery from natural disaster of Tsunami etc.
- SECURE is also concluded with other countries: Philippines, El Salvador



JICA Tsunami cooperation project in APEC economies : Indonesia



Evacuation tower in
aceh , Indonesia



Training course in
Japan



 Work Shop in BNP
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Evacuation drill and evacuation board



JICA Tsunami cooperation project in APEC economies : Philippines and Mexico



Capacity Enhancement for the government



Installation of observation equipment



Mexico

Hazard Assessment of Large Earthquakes and Tsunamis in the Mexican Pacific Coast project



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JICA Tsunami cooperation project in APEC economies : Chile



Capacity Enhancement for the government for Latin America("KIZUNA" project)

Chile



Research Project for enhancement of technology to develop tsunami-resilient community



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Strengthening the Cooperation for Countermeasures against Tsunami

Collaboration among APEC economies is vital

- Strengthen the network and deepen the information sharing
- Early warning system using broadband
- Enhanced international cooperation
- Capacity development



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Source : MOFA

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