Preparedness after Great East Japan Earthquake & Tsunami

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I-a. Great East Japan Earthquake & Tsunami

Great East Japan Earthquake and Tsunami (March 11, 2011)



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Damage caused by Great East Japan Earthquake

Estimated Economic Damage

Item	Damage (approx.)
Buildings	10.4 trillion yen (87 billion dollars)
Lifeline facilities	1.3 trillion yen (11 billion dollars)
Social basic facilities	2.2 trillion yen (18 billion dollars)
Agriculture, forestry, and fisheries	1.9 trillion yen (16 billion dollars)
Others	1.1 trillion yen (9 billion dollars)
Total	16.9 trillion yen (141 billion dollars)

Human Loss / Damage

• Casualties: 15,891

as of 11 Mar 2015

• Missing: 2,584

as of 11 Mar 2015

• Evacuees:

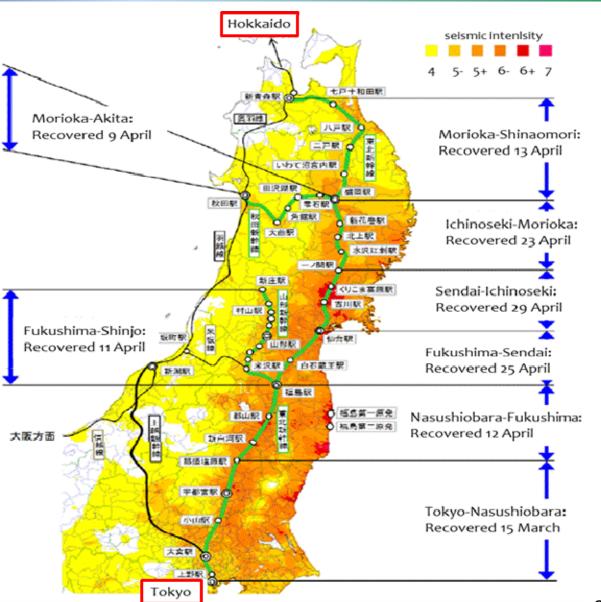
Max 470,000

I-b. Lessons from GEJE & T

Shinkansen; Investment and Build Back Better



East Japan Earthquake Picture Project Web service by Yahoo! JAPAN



Recovery of Expressways; Prior Agreement

- Emergency recovery operation of Tohoku Expressway (the longest expressway in Japan) had done on 22 March, just 11 days later of the occurrence of the disaster.
- The 16 Pre-Disaster Cooperation Agreements between governments and local construction companies enabled the quick recovery of highways and roads including the Toholu Expressway.
- It contributed not only to the transportation of the emergency relief supplies, but also recovery of the economy in Japan.



Six days later

Joban Expressways



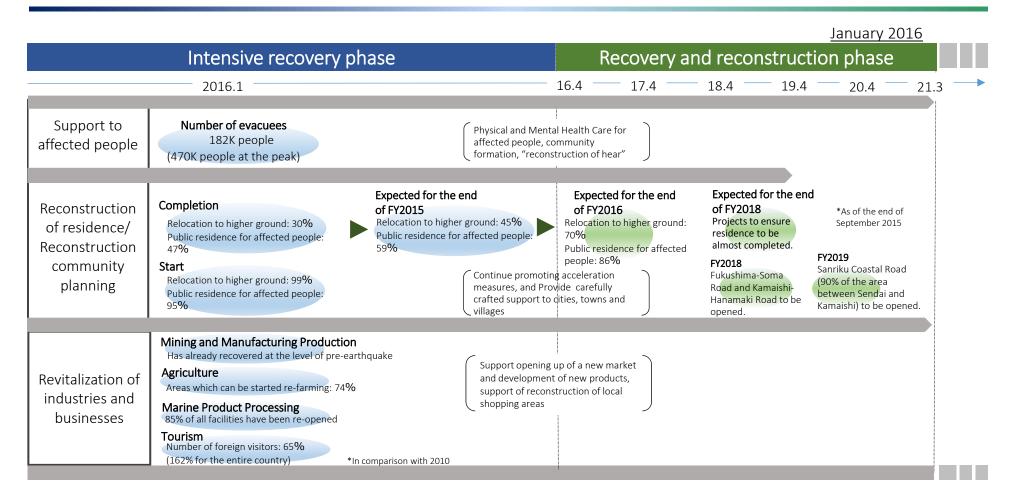
Lessons We've Leant from GEJE&T

✓ Prior Investmet

✓ Build Back Better

✓ Prior Arrangement/Agreement

Roadmap for Recovery from a Disaster



2020: Tokyo Olympic and Paralympic Games **2021 March**: Reconstruction and revitalization phase to be ended. (The end of the Reconstruction Agency to be authorized to operate.)

II. The Third UN World Conference on Disaster Risk Reduction in Sendai, 2015

The Third UN World Conference on Disaster Risk Reduction



Date: 14-18 March 2015

Venue: Sendai City, JAPAN

• Participation:

More than 100 ministers (25 Heads of States and Governments) More than 6,500 participants



≪Outcome>>

- Adoption of Sendai Framework for DDR 2015-2030
- Adoption of Sendai Declaration
- Sendai DRR Cooperative Initiative (by Prime Minister ABE)



Training on the Promotion of Women's leadership in Disaster Risk Reduction

JICA's Invitation Program

Invitation Program on Gender and Diversity in Disaster Risk Reduction

Objectives: Learn challenges and good practices on preparedness, emergency response, recovery and reconstruction, in terms of gender and diversity, from the past experiences of disasters in Japan and participant countries, and then discuss the enhancement of disaster responses and gender

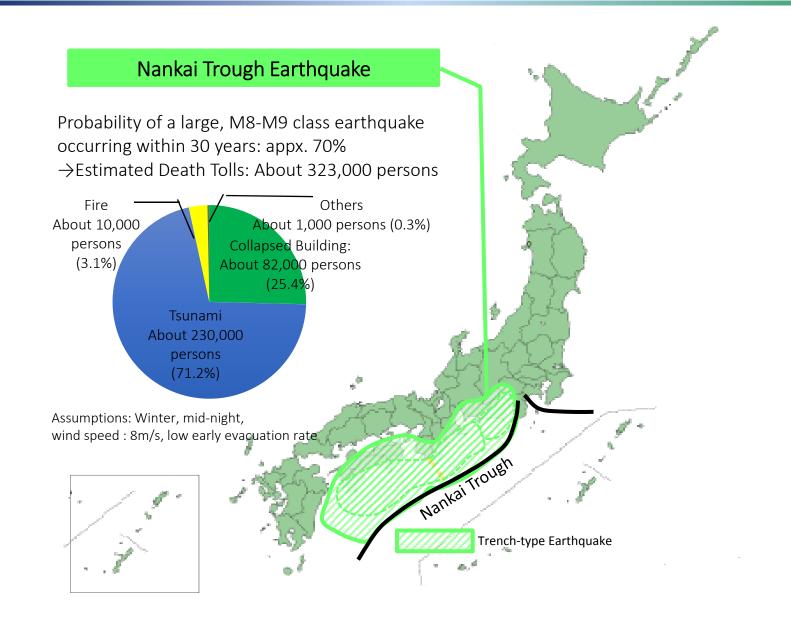
Period: 21 February – 6 March 2016

Participant countries: Indonesia, Sri Lanka, Thailand, Nepal, Bangladesh, Philippines, Viet Nam

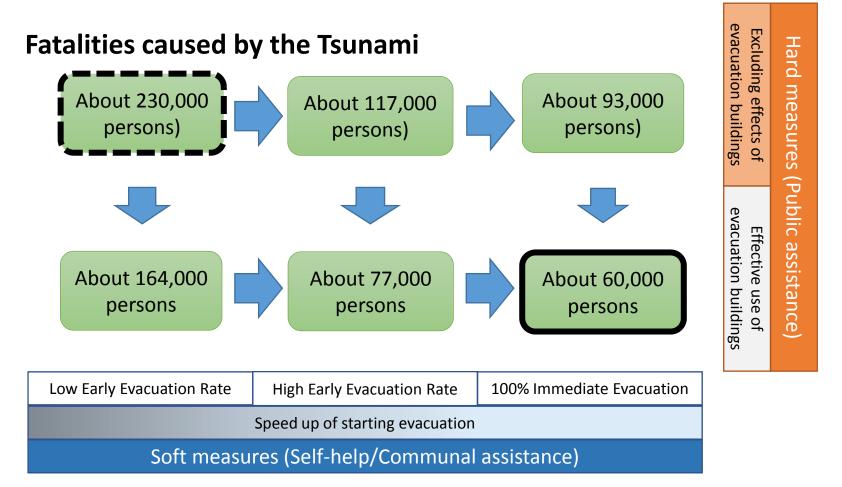
Number of participants: Total 21 participants from 3 countries

III. Tsunami Preparedness through Awareness

Possible Nankai Trough Earthquake



Effects of Anti-tsunami Measures for the Nankai Trough Earthquake



Assumptions: the Tokai region is severely damaged.

Tsunami Drills in Japan

In Japan, tsunami drills are executed around November 5, the day of Tsunami Disaster Prevention Day

Number of groups which conducted drills in FY2015: 287 (Oct 31-Nov 8)

1. National government level

9 ministries and agencies (7 for the last year): Cabinet Office, National Police Agency, Fire and Disaster Management Agency, Ministry of Justice, MOF, METI, MLIT, JMA, JCG 2. Local government level

172 (124 for the last year): 10 prefectures, 162 cities, towns, and villages

3. Business and community level

106 businesses and community groups (49 for the last year)





A Commemorative Event for November 5th, <u>"Tsunami Preparedness Day"</u>



Prime Minister Shinzo Abe speaking on Tsunami Preparedness at the event (Cited from the PM's office website)



Prime Minister Shinzo Abe and Minister of State Taro Kono striking "Tsunami Preparedness" pose, together with "Tsunami Bosai Promotion Squad"



Introducing new members of the Tsunami Bosai Promotion Squad, who are presenting each area's initiatives for tsunami preparedness

The United Nations General Assembly established November 5 as World Tsunami Awareness Day in December 2015.

Let's take steps to prepare for tsunami based on correct understanding.

In order to boost awareness of the risks of tsunami and strengthen tsunami countermeasure throughout the world, the United Nations established November 5 as World Tsunami Awareness Day at its General Assembly in December 2015 following a joint proposal made by 142 countries including Japan.

This heralded the start of new initiatives in the field of tsunami countermeasures.





Tsunami!? If you feel a quake when you're near the coast, get to high ground!