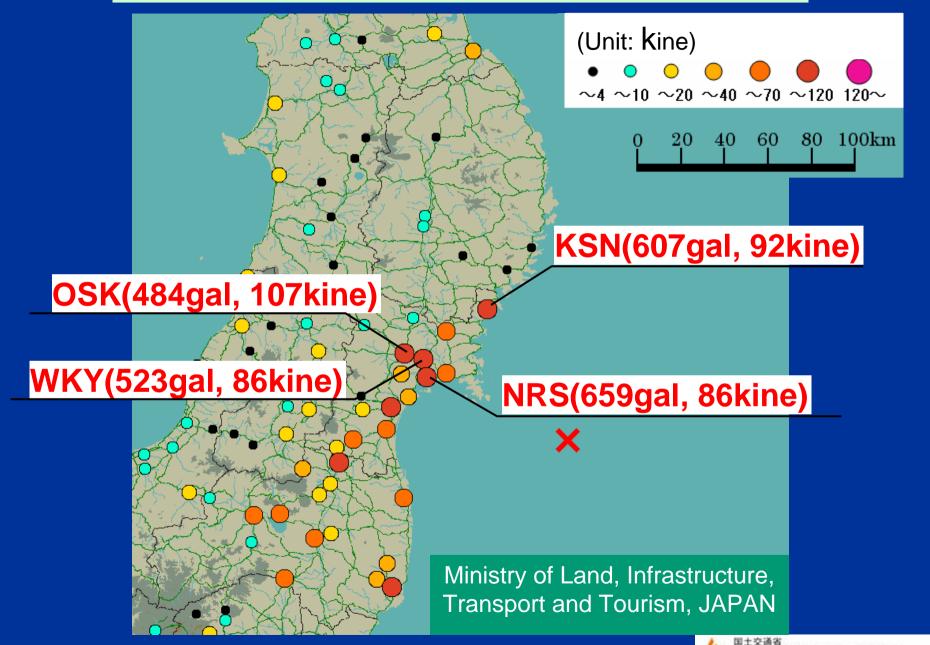
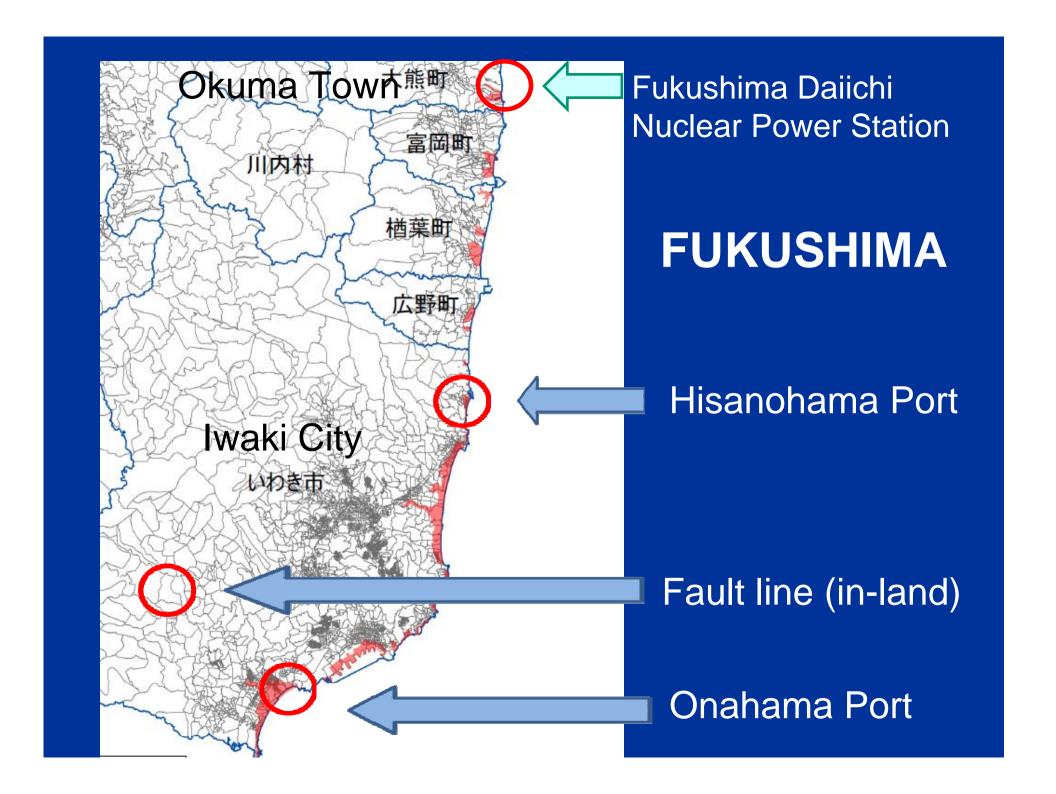
4. 2011 Great East Japan Earthquake and Tsunami

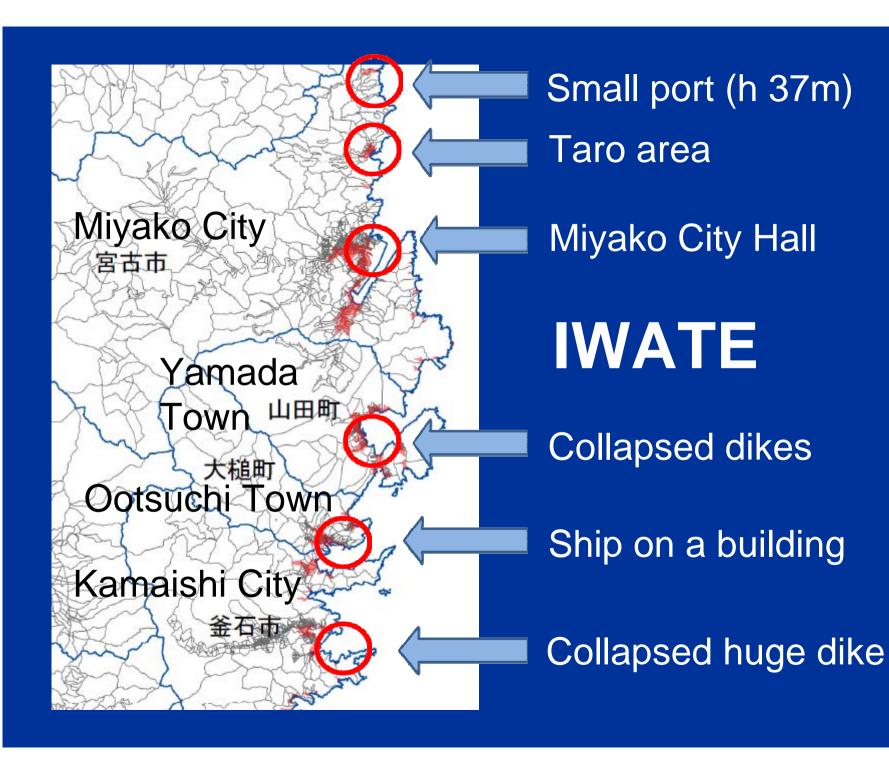
Strong Motion Record by MLIT (11 March 2011)













Miyako City, Taro area (Iwate)

Before 11 Mar. 2011

After 11 Mar. 2011



1: Collapsed dike (10m high) 2: Hotel, 3: Collapsed port, 4: Sign board









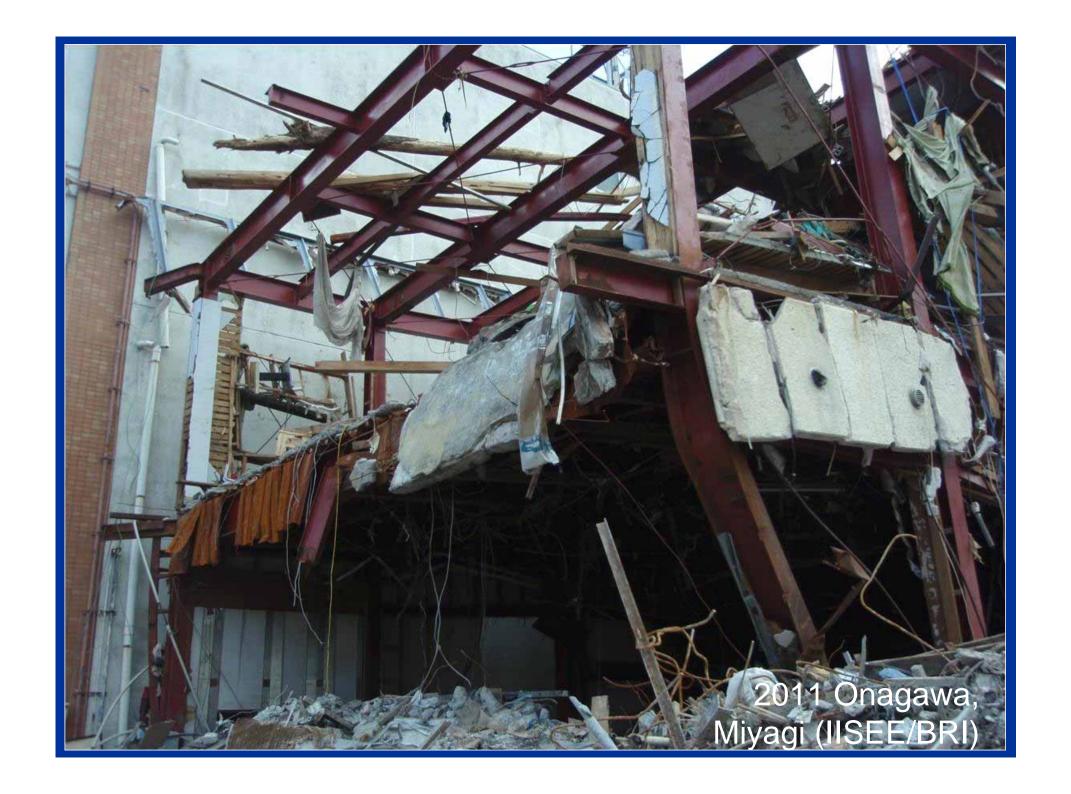
MIYAGI (Onagawa Town)

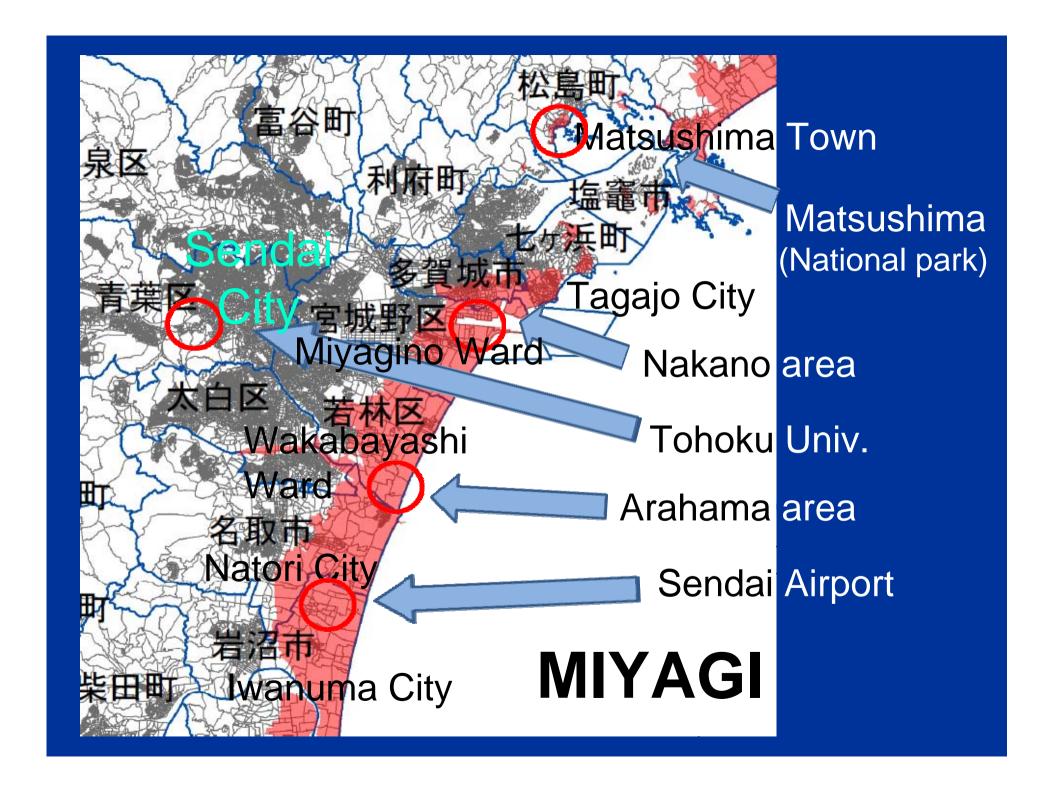






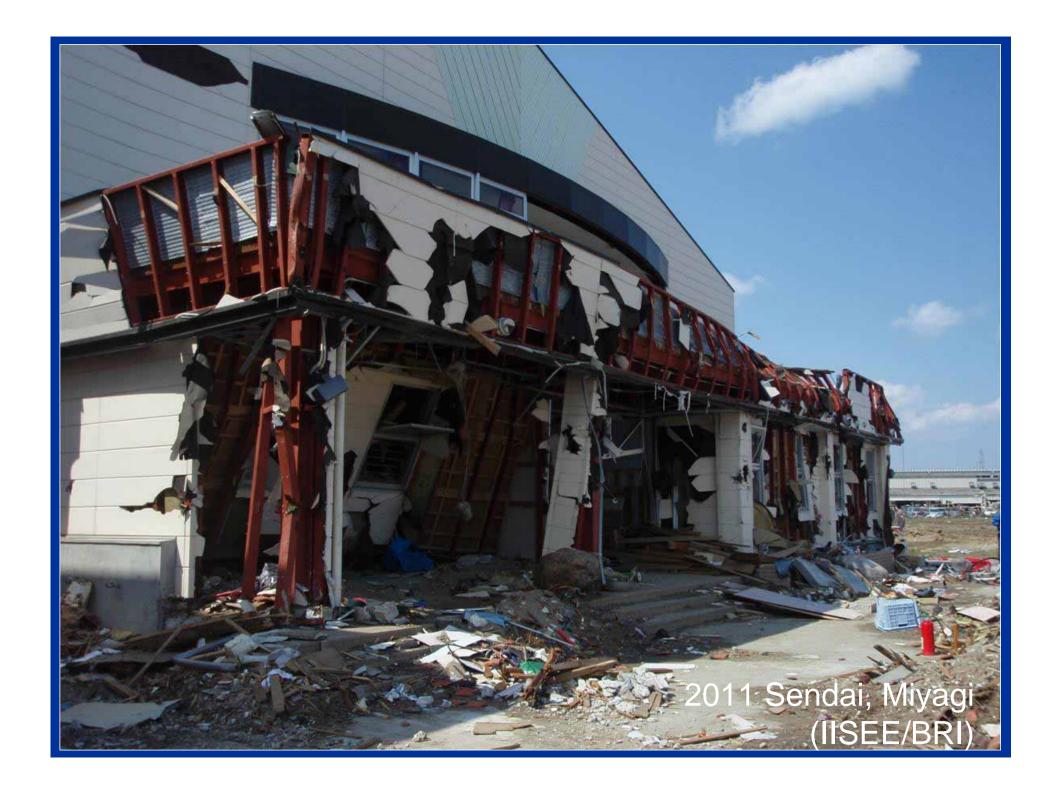




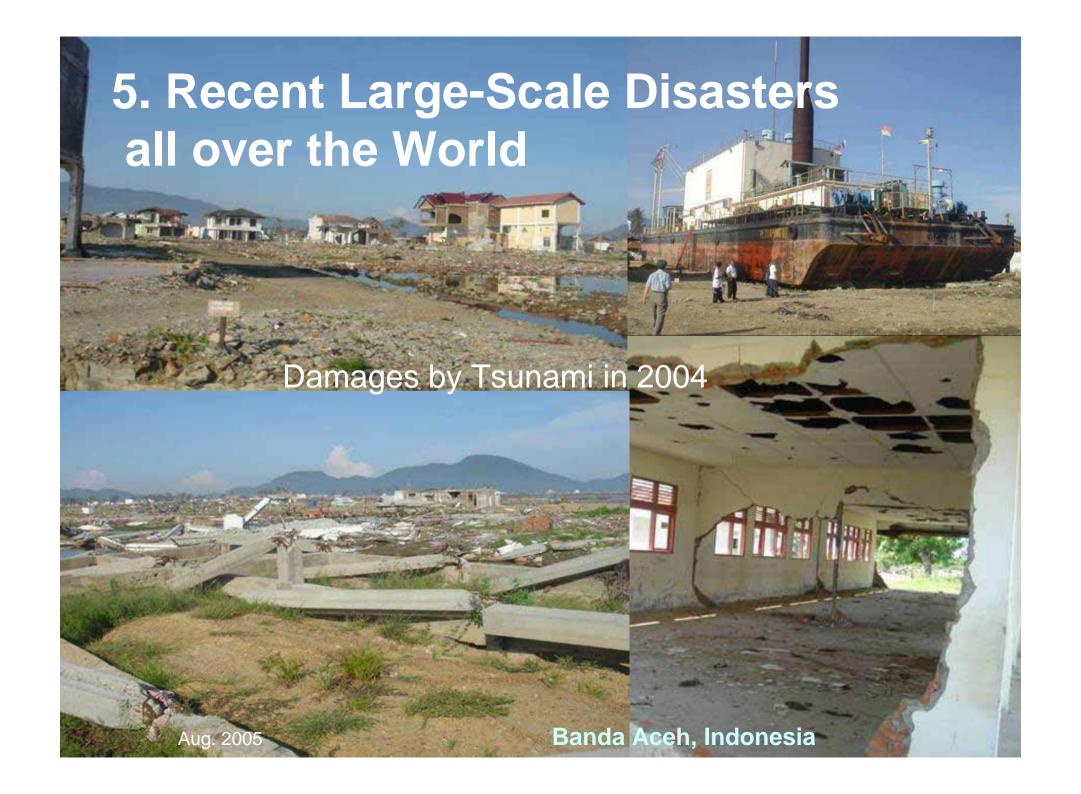


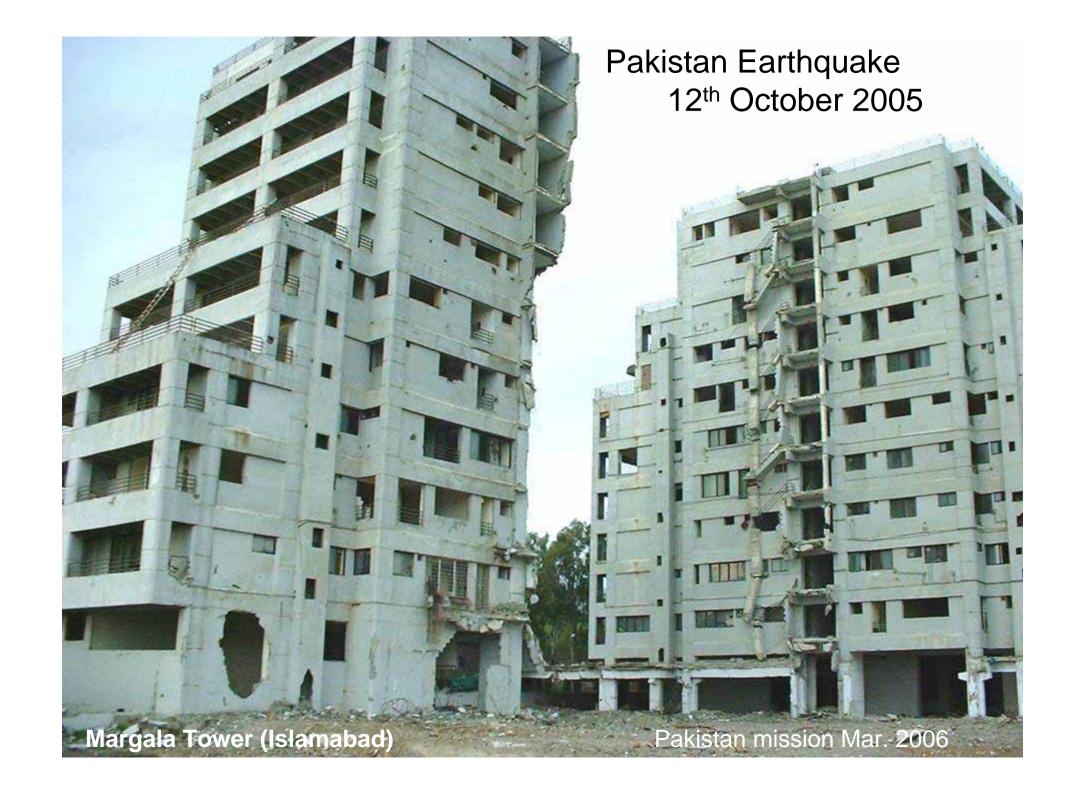




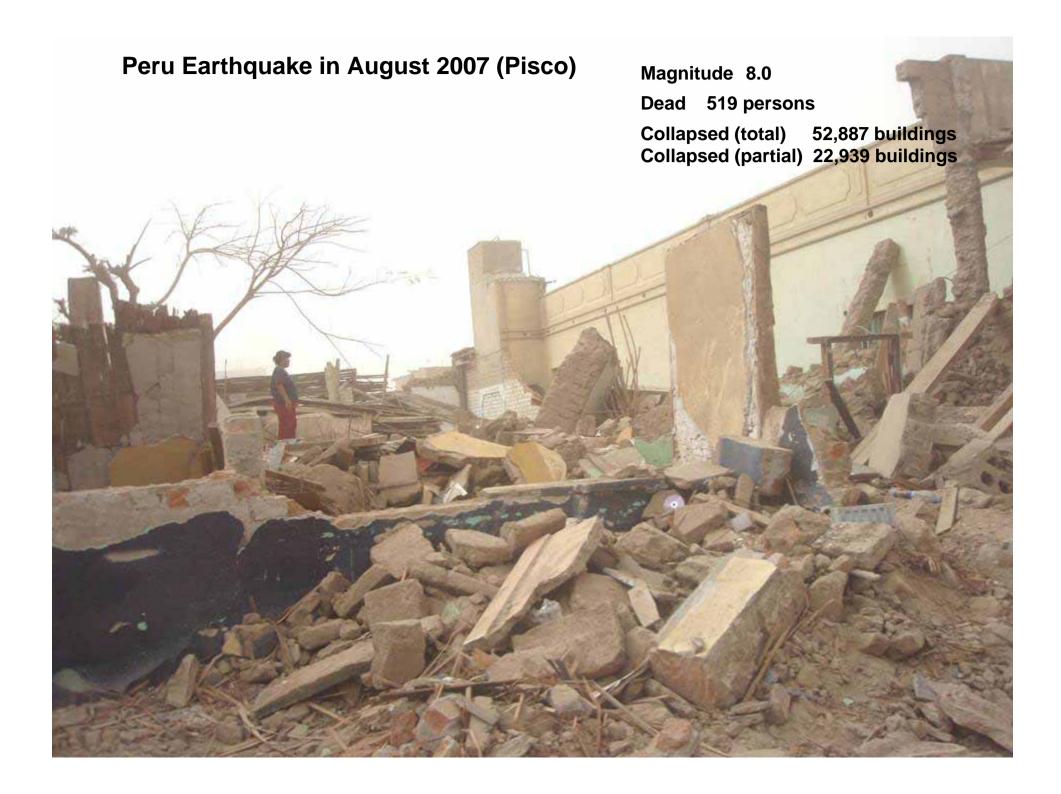


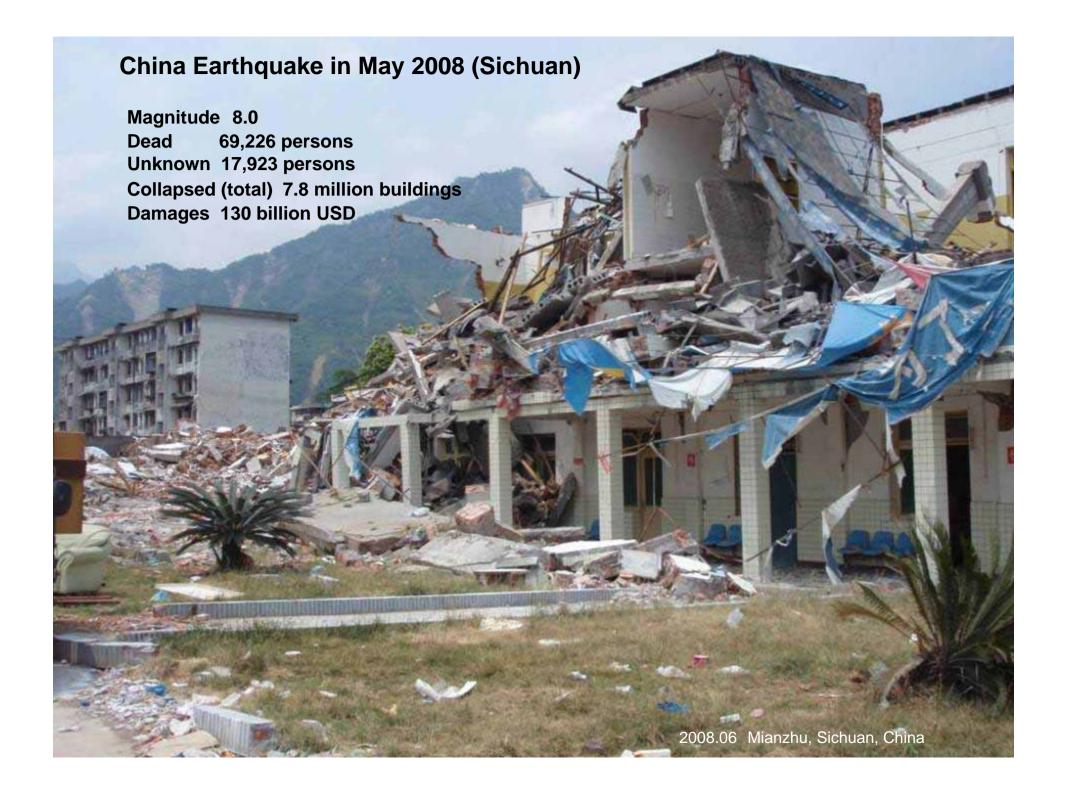












6. Analysis of Recent Large-scale (Huge) Disasters

- 1. Constant occurrence of natural hazards
- 2. Increasing risks by expansion of population, city, and urbanization
- 3. Trends of heavier damages to the poor in LDC (Earthquake to middle incomes etc.)
- 4. Degradation of eco-system / Climate Change

7. UN's International DM System

International Challenges on Disaster Management

- **1. Implementation of HFA** (Hyogo Framework for Action) Target by year of 2015
- 2. International collaboration for HFA among countries UNISDR plays secretariat role.
- 3. Activities have been centered post-disaster responses Preparedness falls future tasks. As emergency response and recovery can be easily covered by NGOs and UN financially.
- 4. Challenge to connect disaster management with Sustainable development and MDGs

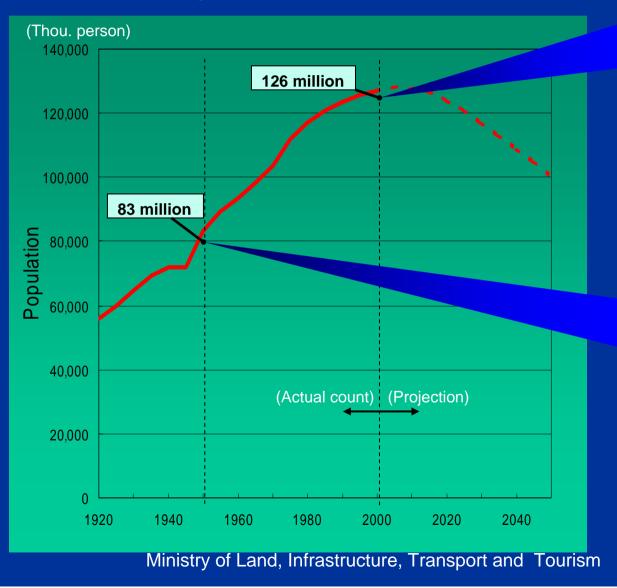


(Reference) Urban DM Policies and Practices in Japan

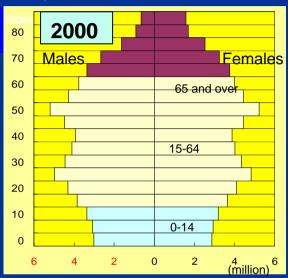
- 1st City Planning Law (1919) Urban structure against fire
- Great Kanto Earthquake (1923)
- Building Standard Law (BSL1950)
 Fire-proof buildings
- Urban Renewal of Densely Built-up Area
- Urban Renewal Projects (incl. DM project)

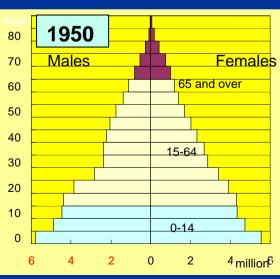
Trends of Population in Japan

Change of Population in Japan



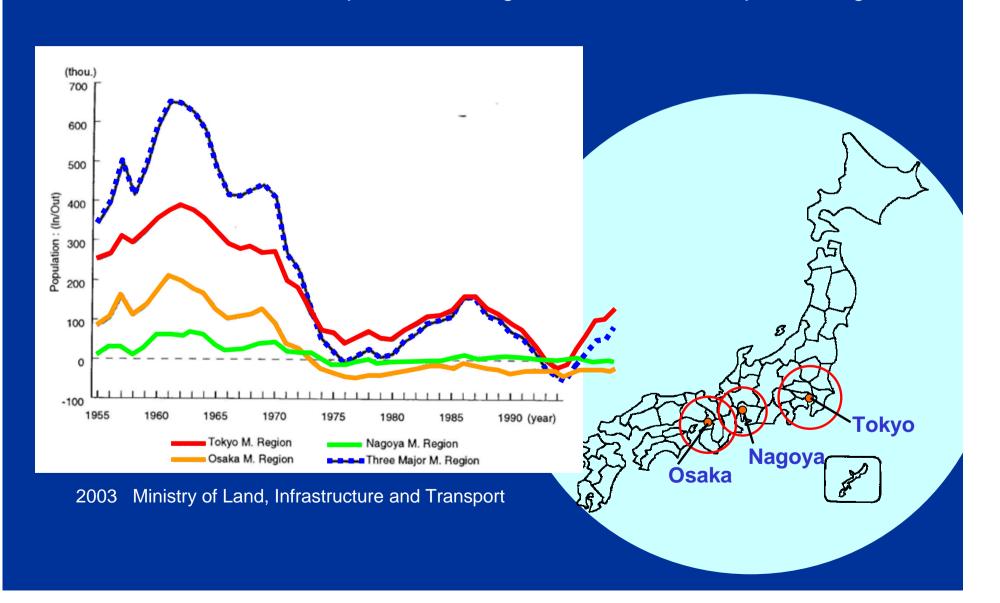
Population Distribution

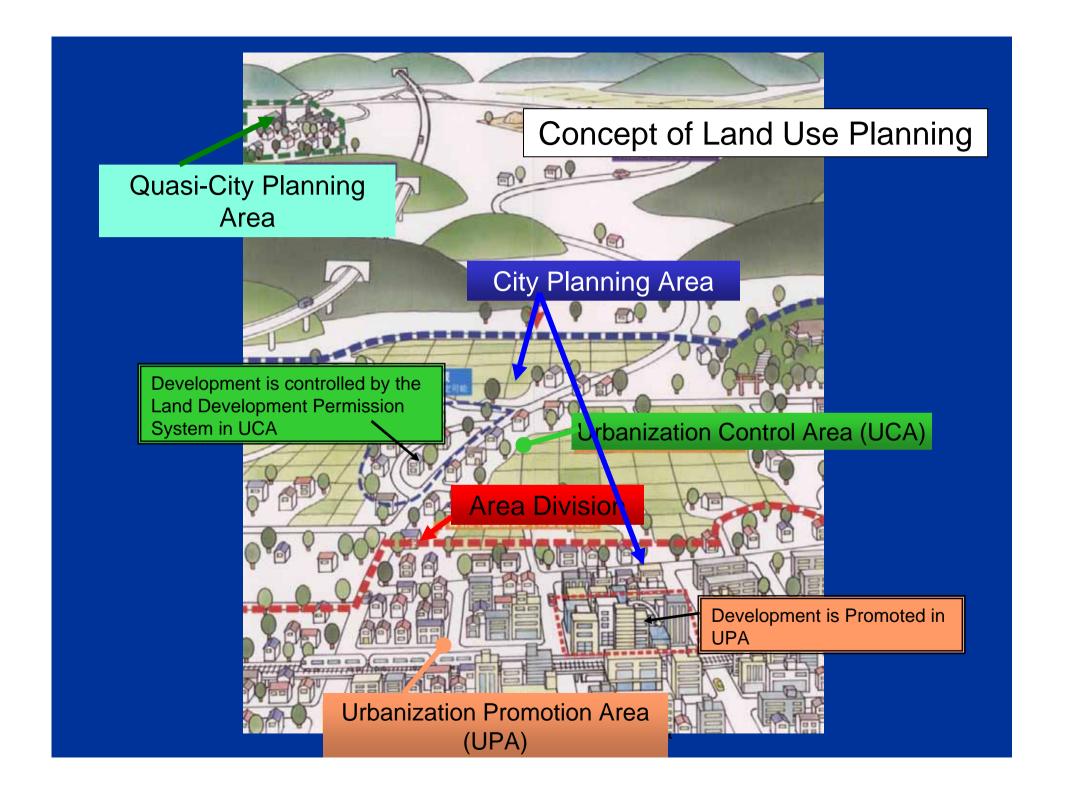




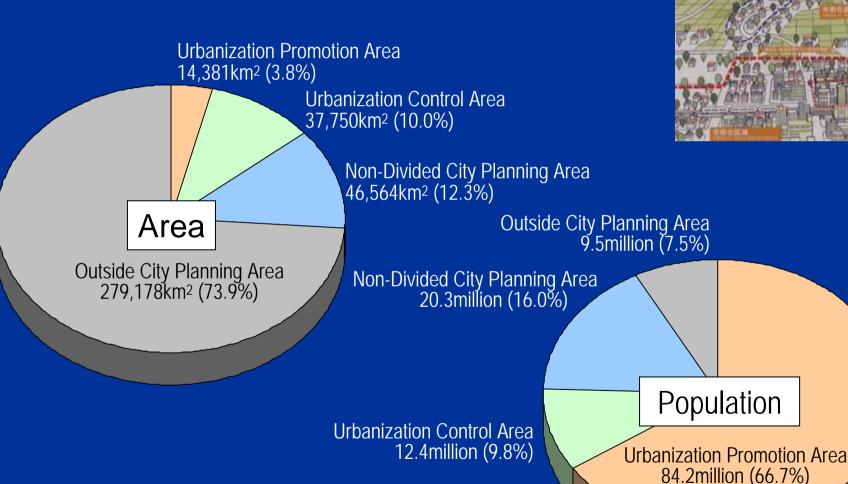
Trends of Population in Metropolitan Regions

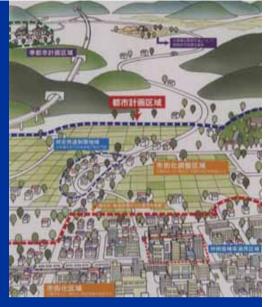
Net Increase/Decrease of Population Moving in/out of Three Metropolitan Region



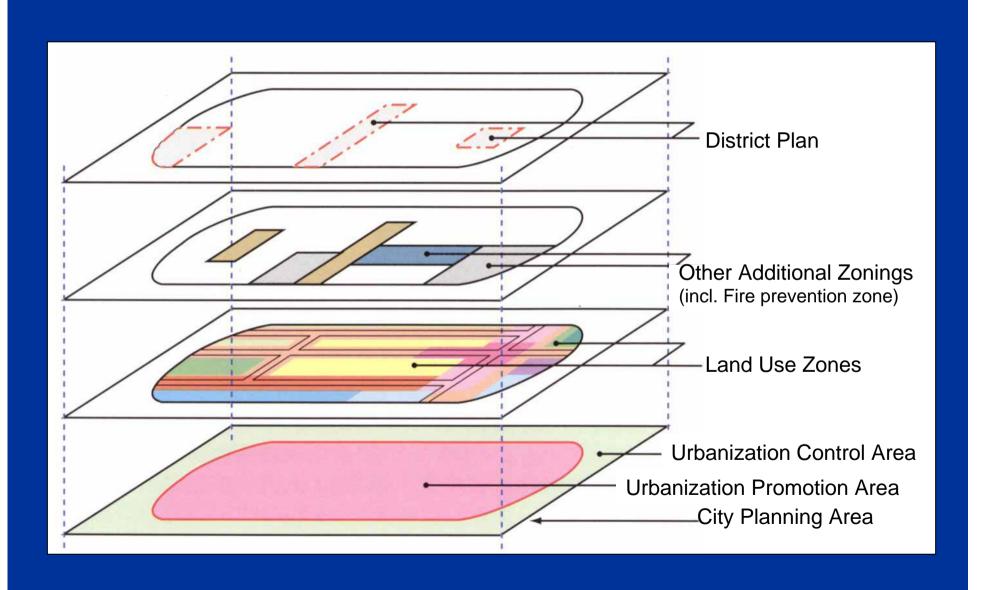


Current Land and Population by Area of City Planning

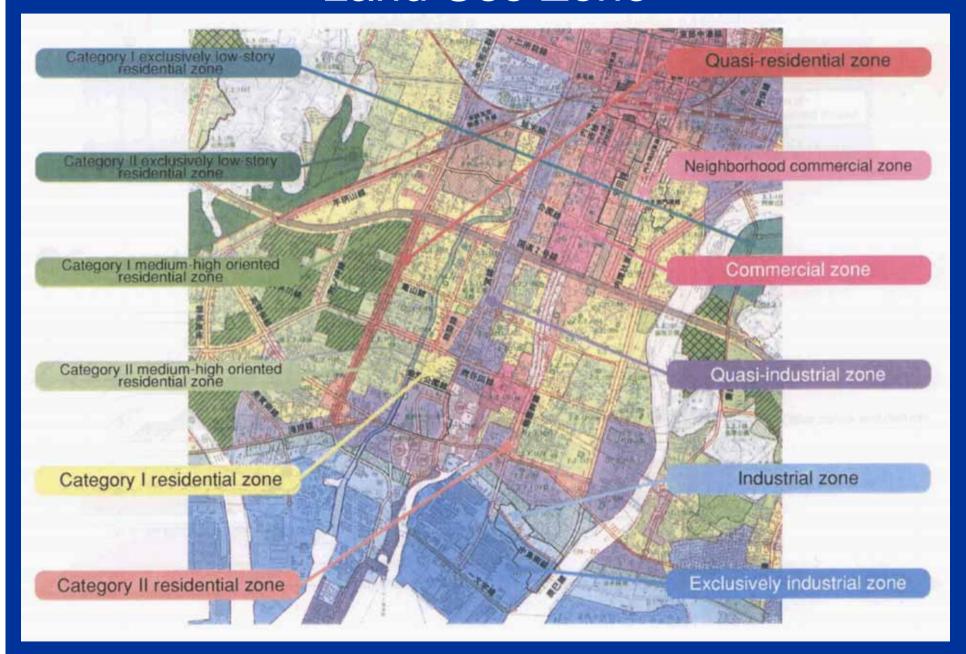




Concept of Land Use Planning System

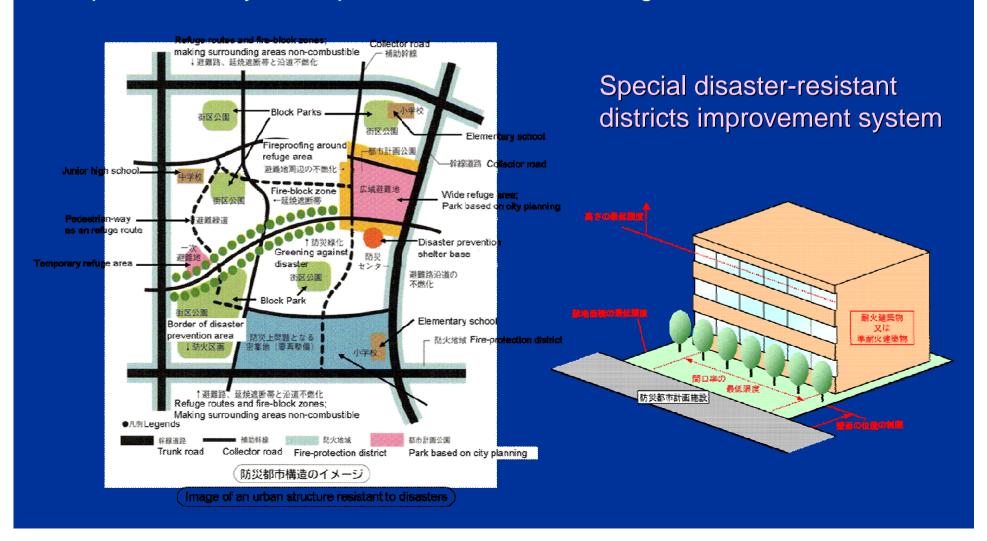


Land Use Zone

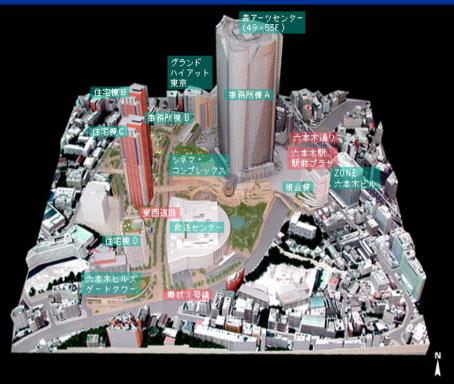


Summary of Act for Densely Built-up Areas Improvement for Disaster Mitigation

The act was enforced in 1997 and reformed in 2003 to promote totally to improve densely built-up areas which have the high risk of disasters.







Project Site in Tokyo (2000)

Project Area (2003 completed)

Roppngi Area Urban Renaissance Projects

Snimbashi / Akasaka / Roppongi Immediate Improvement Area

Roppongi 6 Chome (Roppongi Hills) Projects by Mori Building Company



Urban Renaissance Project in the same Immediate Improvement Area

Hinoki-Cho UR Project (Tokyo MidTown Project)

(Data)

Project Area: 10.1 ha

Floor Area: 56.6 ha

Main Building: 54 F

Planned: 2001

Open: 2007 Spring

Location: former headquarters of the Japanese Defense Agency

Akasaka Tokyo 2003



