

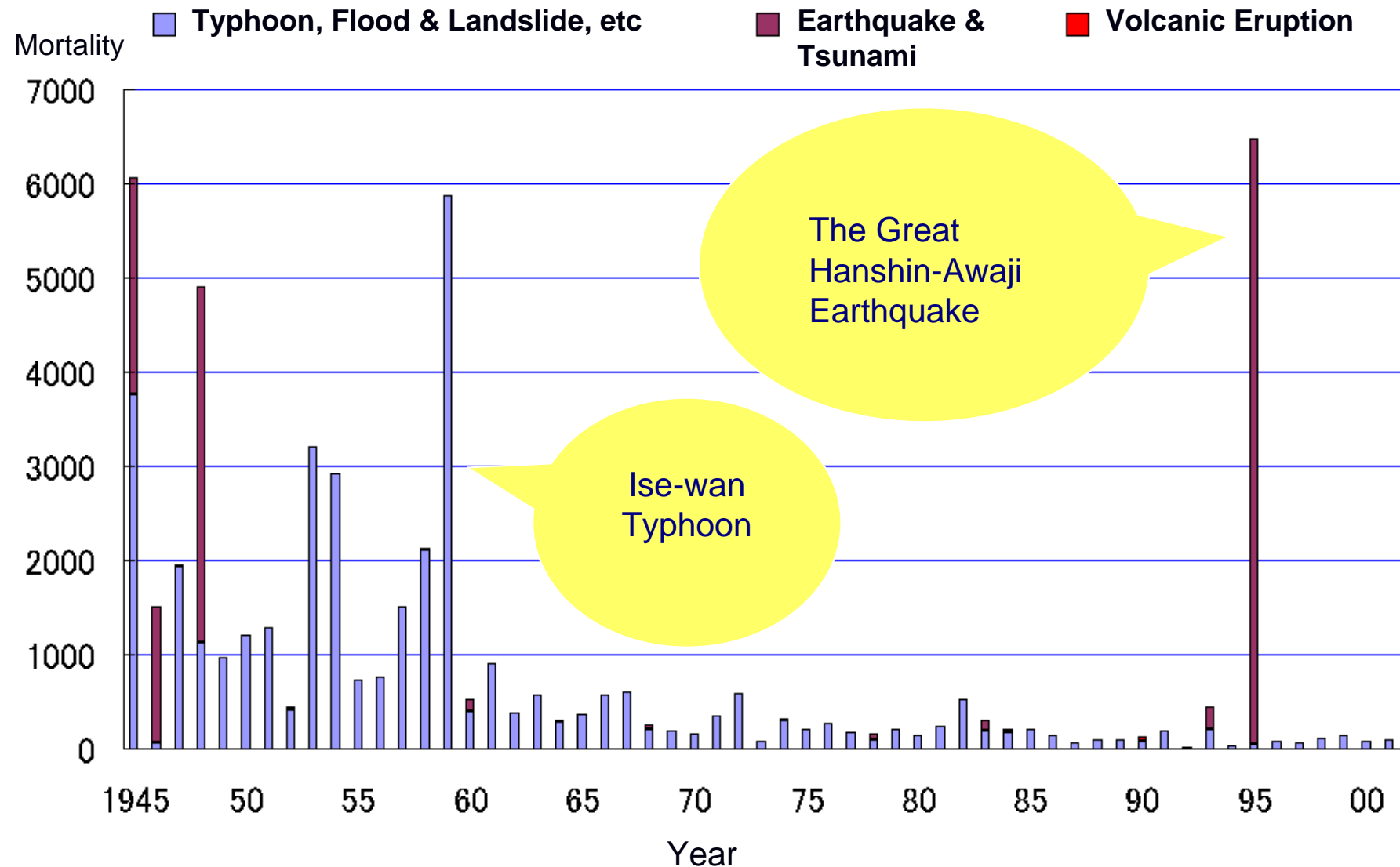
Recovery and Reconstruction
towards disaster resilient communities
- from lessons learnt in Japan -

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Tadashi HARADA

Deputy Director General for Disaster Management
Cabinet Office, Government of Japan

Development of Disaster Management System in Japan



Outline of the Great Hanshin-Awaji Earthquake

Date: 17 January 1995

Time: 05:46

Magnitude: 7.3

Death toll: 6,436

Evacuees: 316,678

Totally Collapsed Houses:
111,123

Partially Collapsed Houses:
137,289

Economic Damage:
¥ 9,926,800,000,000 (JPY)



Recovery

From the Great Hanshin-Awaji Earthquake



Immediate Aftermath



5 Years after the Hit



Efforts for Vulnerability Reduction

1. Integration of Disaster Reduction Perspective into Recovery and Reconstruction Plan

➤ Development of Urban Area

- Law on Special Measures for Recovery of Disaster Area

Prevention of recreating the urban area with uncontrolled construction that degrades safety and environment ⇒ Restriction of construction of buildings for 2 years after the hit in the 16 districts (289.5 ha).

➤ Improvement of Disaster-Resistant Infrastructure

- Main underground multipurpose ducts
- Underground multipurpose electric wire ducts
- Earthquake-resistant water supply utilities

➤ Upgrading of Public Facilities Useful in Disasters

- Improvement of disaster management function at schools
- Earthquake-resistant buildings of government and other public offices
- Revision of Road Construction Standard

Efforts for Vulnerability Reduction

2. Development of Partnership & Enhancement of Public Awareness Disaster Reduction

- **Total Number of Disaster Volunteers: 1,380,000 (1year)**
 - ⇒ The First Volunteer Year
 - Enactment of Nonprofit Activities Promotion Law (NPO Law)
 - Formulation of Disaster Management and Volunteer Day (17 January) and Week (15 -21 January)
- **Support to Voluntary (Community) Disaster Reduction Activities**
- **Implementation of Disaster Management Training and Drills and Promotion of Education for Disaster Reduction**
- **Support to Community Development Activities**

Efforts for Vulnerability Reduction

3. Enhancement of Disaster Management System and Legal Framework

- **Revision of Disaster Countermeasures Basic Act**
 - Strengthening of Emergency Headquarters and its Authority, Systematize Field Headquarters' Function and Authority by Law
- **Enactment of Earthquake Disaster Management Special Measures Act**
 - Development of Earthquake-Resistant Community through Improving Evacuation Areas and Routes and Promoting Earthquake-Resistant Primary and Middle Schools
- **Creation of a New Minister-Level Post in the Cabinet Office**
 - Minister of State for Disaster Management
- **Strengthening of the Central Disaster Management Council System**
- **Improvement of Initial Disaster Management Framework**
(Emergency Management Center, Emergency Assembly Team, etc.)
- **Revision of Basic Disaster Management Plan and Regional Disaster Management Plan**
 - More specific and practical

Tasks Identified and Measures Taken

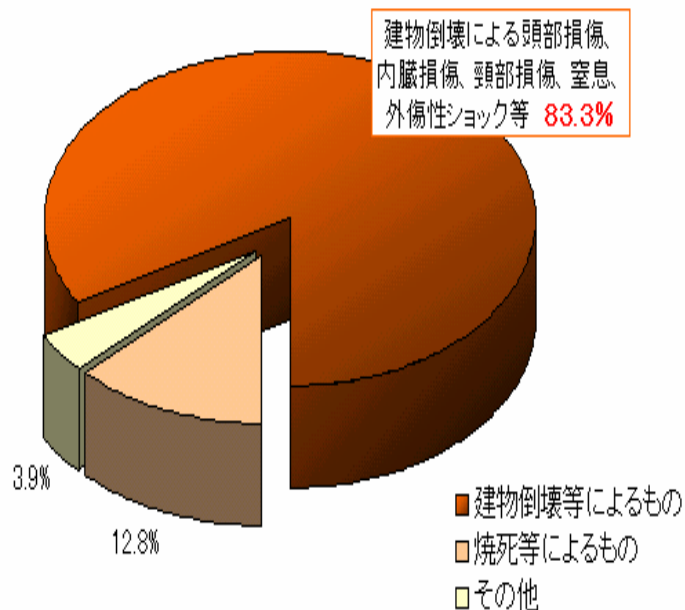
Enhancement of Effective Disaster Reduction Measures and Policies

1) Seismic Housing

Collapse
83.3%

Burn Death
12.8%

Others
3.9%



80% Crushing Death

Nationwide Stagnation
in
Implementation



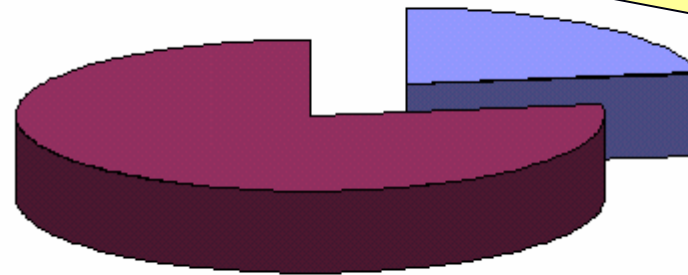
**Need for Formulating
a New Strategy for Disaster Reduction
(Clear Goal Setting & Sharing)**

Tasks Identified and Measures Taken

Enhancement of Effective Disaster Reduction Measures and Policies

2) Importance of Local Community (Self-Help & Mutual Assistance)

Number of Rescued: 35,000



27,000
Rescued by
Neighborhoods

8,000
Rescued by
Police, Fire
Brigade or
Self-Defense
Forces

Formulation of Earthquake Disaster Management Strategy (1)

Concrete Goals ⇒ Disaster Reduction Goals

e.g. Halve the economic loss and human suffering of the hit of the Tokai Earthquake within --- years.

Resolution of Central Disaster Management Council

【Specific Items (Subordinate Goals)】

- Improving earthquake-resistance of Schools, Hospitals, Social Facilities, Government Offices; Developing Coastal Levee and Floodgate; Enforcing Meteorological Observation System & Tsunami Information Provision System
- Formulating Earthquake-Resistance Promotion Program, Comprehensive Earthquake-Resistance Assessment and Anti-Seismic Reinforcement Promotion Program
- Developing Environment and Measures of Assistance to promote the Formulation of Business Continuity Plan (BCP)

Formulation of Earthquake Disaster Management Strategy (2)

Concrete Goals ⇒ Disaster Reduction Goals

e.g. Halve the economic loss and human suffering of the hit of the Tokai Earthquake within --- years.

Resolution of Central Disaster Management Council

【Specific Items (Subordinate Goals)】

- Developing Environment and Measures of Assistance to promote Fast Recovery of Essential Facilities (Lifeline), Financial System, Transportation Network, etc. in the Tokyo Metropolitan Area and Tokai Earthquake Reinforcement Area
- Promoting Community Development in Disaster Risk Management and Earthquake Insurance

Decision on Policy for Disaster Management

Prime Minister, Minister of State for Disaster Management

↓ Inquiry

↑ Report

↑ Provide Opinions

Central Disaster Management Council

Chairman	Prime Minister		
Members of the Council	Minister of State for Disaster Management and all Cabinet Ministers (17 or fewer)	Chief of Designated Public Corporation Governor of the Bank of Japan, President of the Japanese Red Cross Society, President of NHK, President of NTT (4)	Academic experts (4)

Organization for Technical Investigation (5)

Existing Organizations for Technical Investigation

Tonankai & Tokai Earthquake, Lessons Learnt from Disasters, Tokyo Inland Earthquake, etc.

Secretary Organization

Chairman	Parliamentary Secretary of the Cabinet Office
Adviser	Deputy Chief Cabinet Secretary for Crisis Management
Vice-Chairman	Director-General for Disaster Management, Cabinet Office Deputy Manager of Fire and Disaster Management Agency
Secretary	Chief of bureau of each ministry and agency

Progress of Disaster Reduction Activities at international level



Japan's International Cooperation in Disaster Reduction

Through International Organizations

- Contribution to the United Nations Inter-Agency Secretariat of the International Strategy for Disaster Reduction (UN/ISDR) and the United Nations Office for the Coordination of Humanitarian Affairs (OCHA)
- Publication of 'Living with Risk-A Global Review of Disaster Reduction Initiatives' in July 2002

Leadership in Asia

- Establishment of the Asian Disaster Reduction Center (ADRC) in 1998 in Kobe, Hyogo, Japan

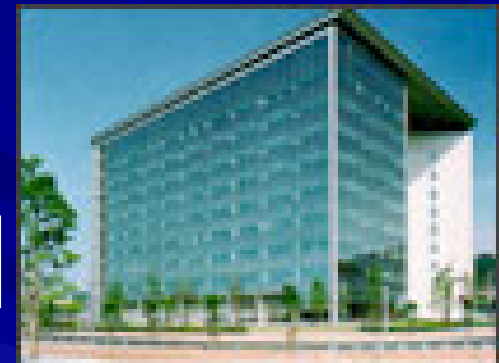
Official Development Assistance (ODA)

- Technical Aid

- Training
- Dispatch of Experts, Japan Overseas Cooperation Volunteers (JOCV) and Senior Overseas Volunteers
- Technical Cooperation Projects by Japan International Cooperation Agency (Dispatch of Experts, Hosting of Trainees and Providing Equipments)
- International Emergency Relief (Dispatch of Japan Disaster Relief Team and Provision of the Emergency Relief Goods)

- Loan Assistance

- Grant Aid



Expectation for the Outcome of the United Nations World Conference on Disaster Reduction (WCDR)

WCDR

- Taking up disaster reduction as a major policy in all countries.

2005

- Comprehensive disaster risk management in all countries, taking into consideration all phases of disaster cycle (disaster occurrence, emergency response, recovery/reconstruction, disaster reduction/preparedness)

Hyogo

**Example: Need for Better Recovery and Reconstruction
for Future Disaster Risk Reduction**



**Need for an International Platform
to Support Better Recovery of Disaster Stricken Counties**

International Cooperation for Recovery and Reconstruction

Reconstruction Plan:

Important to develop a plan for the devastated area that will facilitate to build a more disaster-resilient community in the future

Ideal Recovery Plan

Developing Human Resources

Establishing Systems

Sharing Technical Expertise

Int'l Cooperation

Emergency Response



Assistance of Emergency Response based on future reconstruction plan

Japan's Approach

Past Disaster Experiences

Promotion of Active Int'l Contribution

- Provision of Expertise
- Dispatch of Experts

THANK YOU

