



### Japanese DRM Strategy,

**Strategy & Case Study** 

January 24, 2014

#### SHOJI HASEGAWA

Department of Planning and Mitigation
Disaster and Emergency Management Presidency

Turkey, AFAD

#### Shoii Hasegawa

- Working in the Department of Planning and Mitigation
   Disaster and Emergency Management Presidency (AFAD), Turkey
- Participated in post-war Reconstruction process in Afghanistan, stayed there from 2002 to 2004.
- Engaged in the following Japanese Grant Aid Projects for Disaster Prevention and Reconstruction
  - a. Indian Ocean Tsunami in 2004, I have stayed in Banda Aceh for 2.5 years as a representative of Japanese Assistance.
  - b. Earthquake in Yogyakarta and Central Java, Indonesia, in 2006
  - c. Earthquake in the Region of Ica, Peru, in 2007
  - d. Construction of Multipurpose Cyclone Shelters in the Area Affected by the Cyclone Sidr, Bangladesh, in 2008
  - e. Earthquake in Padang and Padang-pariaman, Indonesia, 2009
- have visited more than 30 times to the devastated area by the Great
   East Japan Earthquake for personal research and voluntary works

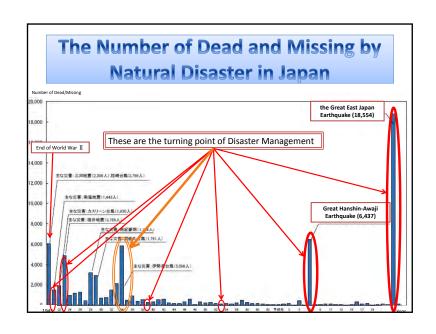
#### **Contents**

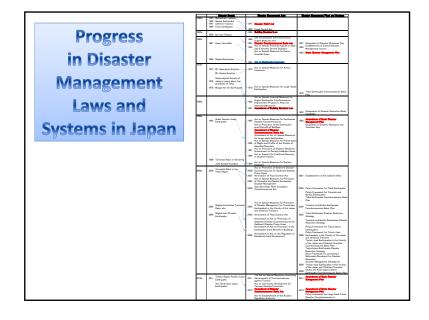
- 1. Self-Introduction, who am I?
- 2. Improvement in Disaster Management Laws and Systems, Example in Japan
- 3. Present Disaster Management Laws, Plans and Mechanism
- 4. Disaster Countermeasures, Preparedness in Radiation Emergency Medical System, Example in Japan
- 5. The Lessons learned from March 11, Example in Japan
- 6. Case Study of well-Preparedness, Example in Japan
- 7. On-going Project in Turkey on DRR in cooperation with JICA

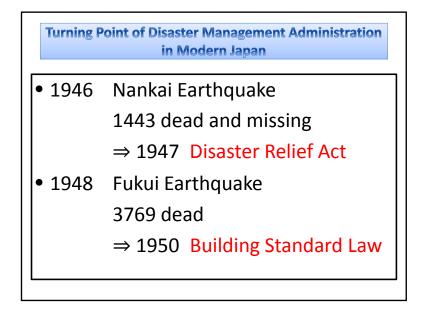


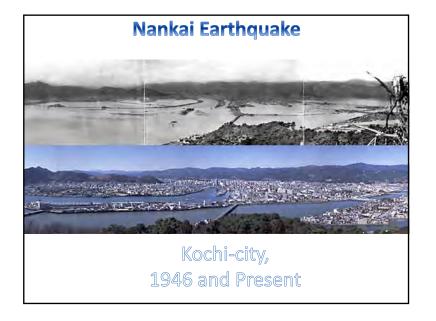
# Improvement in Disaster Management Laws and Systems

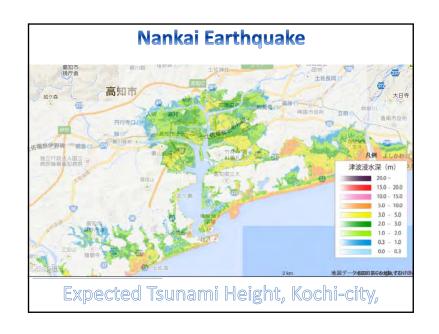
**Example in Japan** 



















Turning Point of Disaster Management Administration in Modern Japan

• 1978 Miyagi-ken-oki Earthquake 28 dead, but big damage on housing ⇒ 1981

Amendment of Building Standard Law

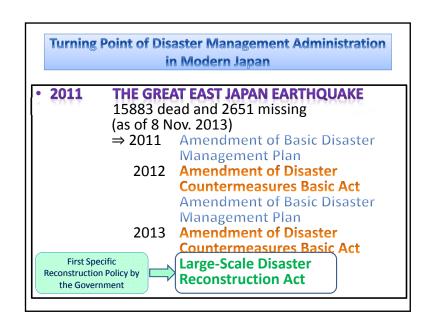
This is also one of the biggest turning point for Disaster Management Legal System in Japan, especially for victims welfare protection

Management appointed

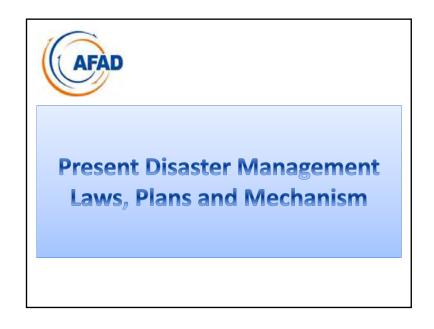


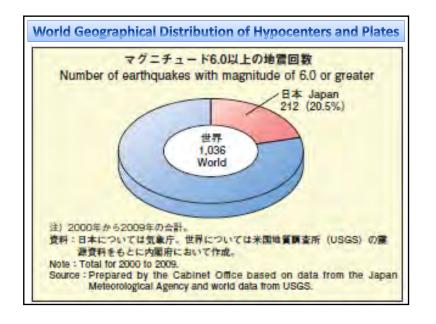
Great
HanshinAwaji
Earthquake













# Outline of Disaster Countermeasures Basic Act

- ➤ Purpose and Policy
- To protect national land as well as citizens' lives, livelihoods, and property from natural disasters
- 2. To contribute to maintaining the social order and securing public welfare.



Lack of Philosophy for Reconstruction and Economic Recovery, especially for social and citizens' life, and human security

### Top Disaster Management Law

#### 1961

#### **Disaster Countermeasures Basic Act**

• Establishment of Central Disaster Management Council,

headed by Prime Minister

#### Member

All the cabinet members + Designated Public Institutions + Experts

### Main Contents of the Disaster Countermeasures Basic Act

- 1. Definition of Responsibilities for Disaster Management
- 2. Disaster Management Organizations
- 3. Disaster Management Planning System
- 4. 5. 6. Promotion of Disaster Countermeasures

Disaster prevention and preparedness

Disaster emergency response

Disaster recovery and rehabilitation

Municipalities have the Primary Responsibility for

Disaster Management

- 7. Financial Measures
- The Prime Responsible Organization must bear financial measures in principle
- 8. State of Disaster Emergency

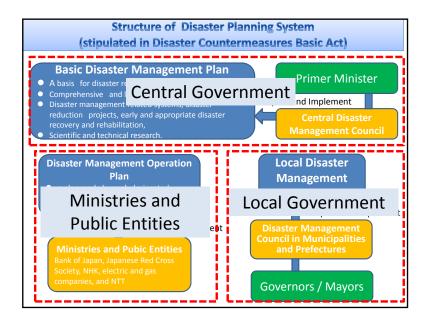
(Extremely Severe Disaster, Extraordinary Disaster)

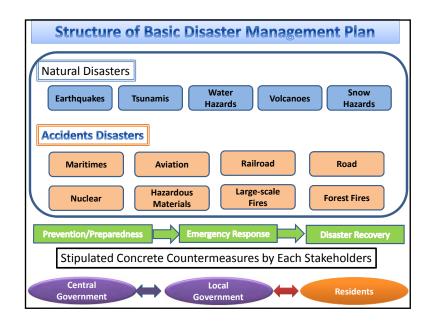
## Outline of Disaster Countermeasures Basic Act

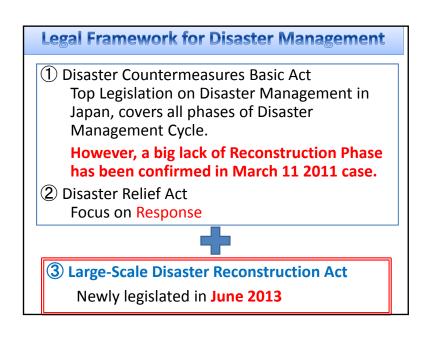
- ➤ Definition of Disasters, Responsibilities for Disaster Management
- Definition of Disasters
  - Natural Disasters
  - Accident (Man-made) Disasters
- Responsibilities
  - Implementation of Disaster Management Plans
  - Mutual Cooperation etc. (including community cooperation)

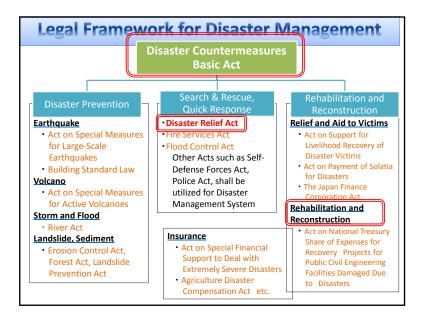
Outline of Disaster Countermeasures Basic Act		
Disaster Management Plans		
	Organization	DM Plans
Central Government	Central Disaster Management Council	Basic Disaster Management Plan
Designated Government Organization and Designated Public Corporation	24 ministries and agencies 56 organizations including independent administrative agencies, Bank of Japan, Japanese Red Cross Society, NHK, electric and gas companies and NTT telephone.	Disaster Management Operation Plan
Local Government	Prefectural Disaster, Management Council, Municipal Disaster Management Council	Local Disaster Management Plan

#### **Outline** of **Disaster Countermeasures Basic Act** > Disaster Management Organizations **Usual Condition Emergency Condition** Central Disaster Central Major Disaster **Management Council** Government Management Headquarters, **Extreme Disaster** Management Headquarters Disaster Management Local Prefectural Disaster Management Council, Headquarters Government **Municipal Disaster** Management Council









### Relatively Newly established Legislation on Man-made Disasters

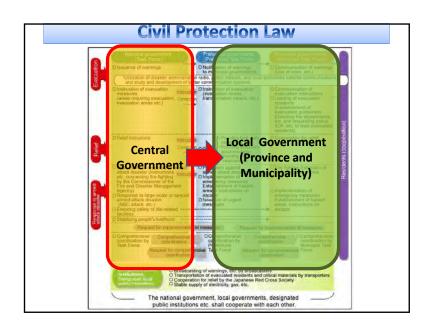
 Act on Prevention of Infectious Diseases and Medical Care for Patients Suffering Infectious Diseases (for Bird Flu)

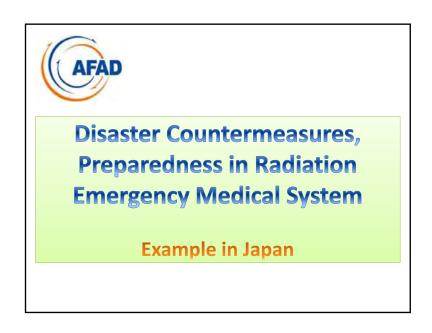
1999

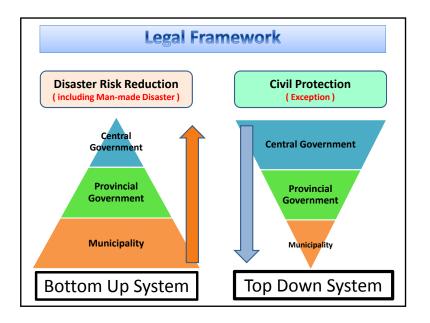
Civil Protection Law

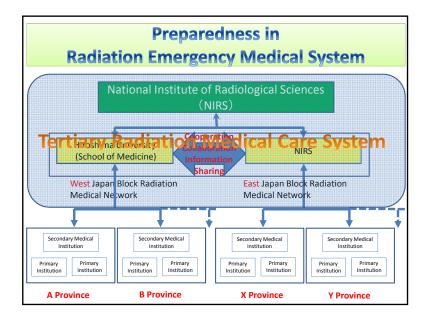
2004

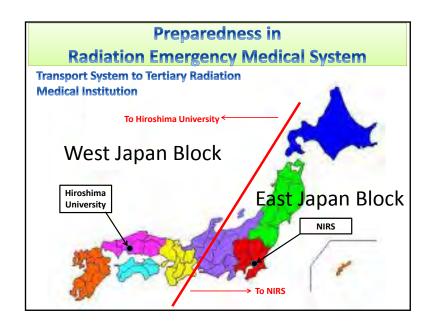
In Japan, the system of Civil Protection is different from that of Disaster Prevention







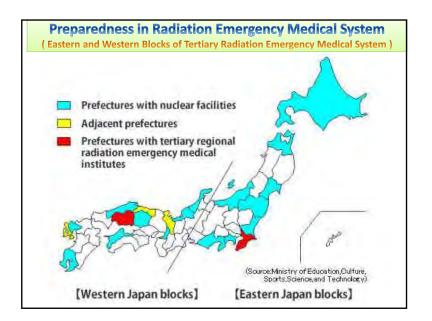




### Preparedness in Radiation Emergency Medical System (Future System)

#### **Lessons learned from Fukushima Case**

- ◆ Nuclear Regulation Agency (under Nuclear Regulation Authority and Ministry of Education, Culture, Sports, Science and Technology) will review the case in Fukushima more detail and will upgrade the Radiation Emergency Medical System by the summer 2014.
- ◆ The suggestion by Nuclear Regulation Agency will be incorporated into Basic Disaster Management Plan in Central Government



### Preparedness in Radiation Emergency Medical System (Future System)

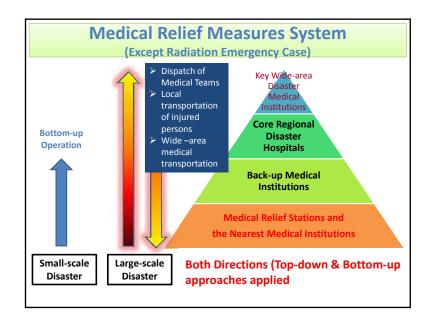
#### **Lessons learned from Fukushima Case**

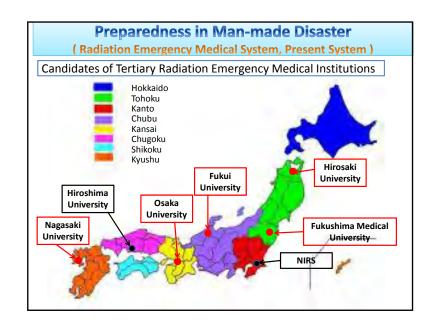
- ◆ Key Nuclear Emergency Hospital (tentative name) shall be designated
- ◆ New Blocks system shall be introduced
- ◆ More Tertiary Radiation Emergency Medical Institutions shall be added and upgraded in regional level.
- New medical support team (tentatively named "Nuclear Medical Support Team: NMAT") shall be established
- Collaboration with General Disaster Emergency Medical System (Ministry of Education, Culture, Sports, Science and Technology, and Ministry of Health, Labour and Welfare)

### Preparedness in Radiation Emergency Medical System (Future System)

#### **Lessons learned from Fukushima Case**

- New Blocks system shall be employed ⇒ Regional Block System
- ◆ Two (2) Tertiary Radiation Emergency Medical Institutions are appointed ⇒ more additional institutions shall be appointed as shown in the following page.
- ◆ About 100 NMAT shall be established among about 1150 DMAT in the nation.
- ◆ Collaboration with General Disaster Emergency Medical System ⇒ more simplified management system













The Lessons learned from March 11

**Example in Japan** 

#### The Lessons learned from March 11

- **≻** Preparedness
- ➤ Redundancy
- Coordination among relevant authorities



**Resilient Society** 

# The Lessons learned from March 11 Example

- Preparation of supplies including daily necessities (Stockpile)
- ➤ Change of Locations such as Emergency Generators in Hospitals
- ➤ Appointed more Key Emergency Hospitals in Tokyo, three (3) more appointed.
- ➤ Operations of DMAT
- ➤ Importance of Coordination among
  Medical Institutes in Devastated Area.

### Importance of Coordination and Communication Japanese Red-Cross Ishinomaki Hospital

- The Doctor working in the Ishinomaki Red-Cross Hospital had been appointed as Medical Coordinator by the Governor of Miyagi Prefecture before March 11, 2011.
- Communication among medical institutions in Ishinamoki Area was very smooth and could receive easily the assistance from the central and other local governments.

### Preparation for Emergency (Stockpile) in Metropolitan Hiroo General Hospital



### Preparation for Emergency (Stockpile) in Metropolitan Hiroo General Hospital







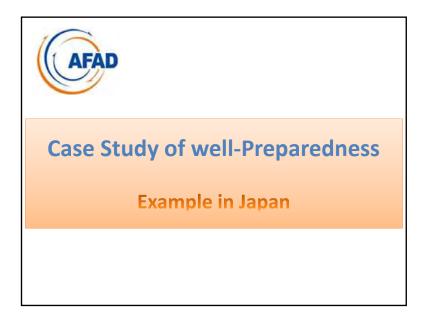
### **Very Recent Lessons learned**

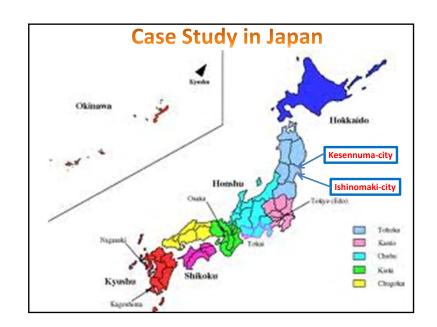
> Revision of Basic Disaster Management Plan requested by Central Disaster Management Council

#### Dated 17 January 2014

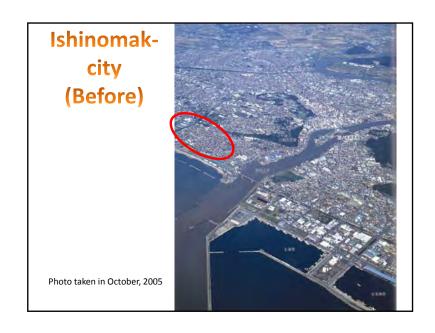
- **♦** Preparation of Name list of Vulnerable people in community in pre-disaster phase
- **♦** Expansion of Distribution System for Iodine **Tablets** (Potassium Iodide)
  - ⇒ Protection Improvement against Nuclear Accident

### **Strengthening Preparation**









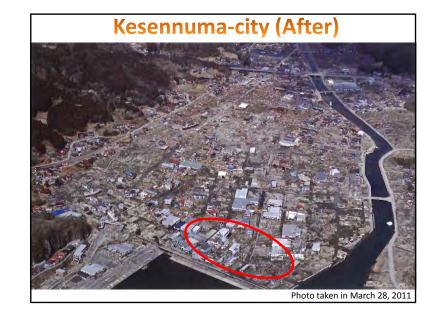




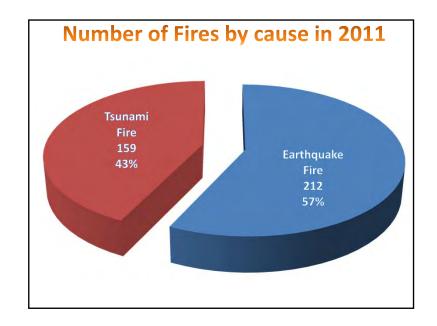














On-going Project in Turkey on DRR in cooperation with JICA

# The Project I am working in cooperation with JICA

Name: The Project on Capacity Development toward Effective Disaster Risk

Management

Project Duration: 4 years (2013 – 2017)

Cooperation Type: Technical Assistance (TA)



