











# • The Great Hanshin-Awaji Earthquake Information 17-01-1995. 5:46. 7.3 Scale

Description	Number
Dead	6,401
Missing	3
Seriously injured	10,494
Lightly injured	29,598
Houses damaged	448,929
Building damaged	248,412
Total cost of damaged	9,926.8 Billion Yen





# •Visited Tokyo on 23-25 August 2004. Ministry of Land, Infrastructure & Transportation Urban Planning Division : response for planning evacuation and long plan to protect disaster. Planning evacuation for natural disaster in Tokyo. Planning evacuation for Dense urban areas in Tokyo (Example in Arakawa area) Improving major evacuation areas and evacuation routes. Evacuation roads ( at least 6m wide ) Construction of Auxiliary route 306 in dense urban area. Length of road 1,361 m, width 14 m, sidewalk 3.5 x 2, driveway 7.0 ( one lane on each side )

# •Visited Tokyo on 23-25 August 2004.

#### -) M R c a r d H iii fa m e w w a

#### -National High Way & Risk Management Division:

Response for planning and coordination of road traffic safety administration, survey and research of measure to prevent disaster on road.

Established transportation and lifeline systems and other urban facilities, several earthquake monitoring networks to use earthquake information for early warning or early damage assessment.



Information Technology for Road Management

# •Visited Tokyo on 23-25 August 2004.

#### **Emergency Operation Center:**

Function as the central room for disaster management, to decide the immediate response in case of large disaster. The Center based on the latest IT Technology, has a comprehensive role to collect, integrate, understand and



disseminate the disaster information and the damage conditions. This center provide the information of MLIT for the Official residence of the Prime Minister and other related organization, to request assistance to the related organization and to carry out publicity work.

1. Collection of disaster information: The regional organization of MLIT and the related organizations automatically transfer the metrological information, earthquake information, river information and ......

2. Collection of damage information: The system for the collection of real time image of a disaster ( from a helicopter or monitoring camera ) is prepared.

3. Estimation of damage: Disaster information system is introduced, which is developed by Cabinet Office for the automatic rough estimation of damage caused by an Earthquake. 4. The base function of activities: Through a digital circuit, TV conference is performed with regional organization.

# •Visited Tokyo on 23-25 August 2004.

Inistry of Public Management Home Affairs Posts & elecommunication.

Fire & Disaster Management Agency: With the earthquake preparedness as the most important issue, Fire & Disaster Management Agency comprehensively promoters the following eight issues:





Prevention of Fire outbreaks Initial firefighting Improvement of regional disaster preparedness Reinforcement of initial response action Information management Prevention of fire spread Search & Rescue Evacuation and post quake safety



## -Attended the Public Forum''Recovery from Catastrophic Disaster-toward a safer world for all''

This forum organized by ADRC, Cabinet Office of Japan, The United Nations University, UN ISDR Secretariat and UNDP. In cooperation with USAID, NHK ( Japan Broadcasting Cooperation ) and Hyogo Prefecture Government. Focused on, learning from the pass experience to improve and develop the approach, disaster reduction Networking among governments, NGOs, regional/international organizations, communities, and

corporations is essential in achieving a holistic approach to disaster reduction. Networking can facilitate information sharing, best practices, many experiences and weak point to be improved for the future disaster risk preparedness and recovery activities.















### •Visited Hyogo Prefecture Disaster Management Center . (Cont ) 2. Preparation for the Emergency Response System in Hyogo Prefecture Established Monitoring & Quick Response System. Three Building containing 76 department have been constructed near the prefectural office as the standby lodgings for first staff in case of emergency. Phoenix Disaster Management System. The main purpose is to collect information as a result of meteorological observation, the initial stage estimation of damage to be caused by disaster, and assessment of actual damage, together with a map and visual images. 331 Computer work stations installed (65 at offices of the prefectural government, 71 at prefecture related organization, 124 at municipalities and local fire department, 5 at organizations related to disaster management, 62 at local police headquarters and precincts, and 4 at utility companies )

#### •Visited Hyogo Prefecture Disaster Management Center. (Cont) 3. Development of emergency management bases. 1. Regional emergency management bases have been established for each major area **Memorial Park** in the Prefecture ( there are 7 regional emergency 1: Hyogo Prefectural Disa management bases ), to store rescue **Management** Center materials and equipment and relief commodities for the victims; to collect and 2: Hyogo Prefectural Fire Fi deliver relief supplies; and to station relief and rescue workers. In addition, some existing facilities will be also used as emergency management bases. 3: 3-DF 2. Emergency management bases has 3 esting function as: 1. Storage, 2. Collection and delivery of supplies, 3. Stationing.











# **Emergency response of the government.**

Very quick and good cooperation of related organization on information dissemination and early warning.
(before, during and after disaster) Information Forecasting on TV and Radio very frequently















History of flood damage in Osaka prefecture government.				
	Date	Flood damage.		
Photo of flood in the pass		No. Houses damage		
	- Jul. 12-13,1972	43,411		
	- Sep. 15-16, 1972	61,407		
	- Jun.27-Jul.2,1979	13,087		
	- Sep.30-0ct1, 1979	27,736		
	- Aug.2-3,1982	50,040		
	- Sep.2-3, 1989	1,953		
	- Sep. 14,1989	3,668		
	- Sep. 19-20, 1989	1,697		
	- Jul.2-6 1995	2,040		
	- Jul.9, 1997	172		
	- Jul.13, 1997	3,828		
	- Aug 5, 1997	3,202		
	- Aug.7,1997	9,213		
	- Jun. 26-27, 1999	401		
	- Jun. 29-30,1999	197		
	- Aug. 10-11, 1999	3,480		
	- Sep. 17,1999	3,957		

Neya river basin comprehensive flood control measures in Osaka prefecture government.

In order to create a safe and comfortable town by alleviating flood damage, not only the restoration of rivers, but also the construction of water retention facilities such as:

Flood control green spaces Flood control reservoirs Effluent facilities, Underground flows.

Improvement measures for the river basin for the purpose of preventing rainwater from flowing out to the sewerage system or rivers all at once are also important.

















Information of Earthquake Damage.							
People Dead People injured People evacuation Houses destroyed Houses partially destroyed Housed damaged	40 2,867 10,663 2,028 4,430 42,429	Major Earthquakes with magnitudes ranging from 5.9 to 6.8 struck on 23 Saturday evening October 2004 in Niigata prefecture, northerm Japan. Cause to landslides, Flood and Mudslide, wrecking houses and buckling railway tracks. Many people dead, missing, and thousand of people evacuation.					



# Emergency response of National & Local government.



The Niigata prefecture set up the Emergency center, in this center there were many related organization based, to sharing information about the earthquake, discussion Such as: there is the corner of the representative from Hyogo prefecture to share the lesson learn and suggestion how to response in the emergency, based on Experience of Hanshin Awaii earthquake 1995.

There is the corner of Self Defense Force, Conner of Medical service, and many organizations related to.....







## Set up volunteer center



In Volunteer center there were many Volunteer from all around the country having difference skills as Computer skill, first aid......, information providing also have in Japanese and English, there was the corner provide food for evacuee and also many activities took place.



















# 1. Experience of pass major disaster

Realized the emergency response of Hanshin-Awaji Earthquake (search and rescue, emergency assistant, the way assessment and other else...). Also realized the quick and well coordination and collaboration from networking group and people of Japan, especially involving implement for recovery & reconstruction after earthquake. Also many steps toward recovery & reconstruction process were implemented will be the very good guidance for many countries in the implementation of recovery and reconstruction.

Sharing lesson learn and experience of pass major disaster is very important process for develop and improve the weakness points of the actions for the effective response to future disaster, especially for planning the response measure for disaster reduction and mitigation for the future.

More knowledge about rainwater and sanitation treatment systems which are widely know for my advanced process of flood control in Japan.

# 2. Disaster preparedness IN JAPAN

#### There are many disaster prevention facilities and equipment:

 Observation equipment such as: meteorological satellites, weather observation radar and seismometers.

- Materials and machinery required for emergency response such as relieve stocks, firefighting equipment, water tanks and power generators.

- Systems for liaising and communicating emergency information such as telecommunication or broadcasting facilities.

- Transportation vehicles such as helicopters, ships and automobiles.

- Facilities of evacuation and headquarters for disaster countermeasures.

Also there are many projects such as fireproofing buildings, providing evacuation routes, areas and facilities for disaster preparation bases.



Disaster prevention in urban areas such as creating green space, spreading aseismic examination and reinforcement of existing buildings, improving and inspecting public facilities and seismi retrofit of lifeline facilities.
There were many erosion control works such as landslide prevention, Soil and water conservation, flood control, steep slope prevention and any els....
There are many activities on school Education & disseminating such as: 1<sup>st</sup> of September every year is "Disaster management day" in the period of August 30<sup>th</sup> to Sept 5<sup>th</sup> as ' Disaster management week" many event such as dm fair, dm seminar, dm poster contest and dm drills.



緊急消防援助隊による合同訓練 Joint drill undertaken by Emergency





# **3. Disaster Emergency Response & Recovery and reconstruction**

Experiences on the real situation and many actions took place in Earthquake and flood emergency response from national and local government. I released that Japan has very good preparedness so many organizations related to, have more skill, understand well their role and responsibilities and the way how to coordination in the emergency situation. Thus the Disaster emergency response and recovery & reconstruction were very quickly and smoothly.

III. Recommendation to Disaster management in Lao PDR



- Should pay more attention on increasing capacity of district and provincial authorities to prepare communities to respond to disasters and reduce disaster vulnerability.

- Should improve the coordination and flow of information between all administrative levels ( national, provincial, district and village ).

- Emergency response plans at high risk district should be clear and disseminated to all relevant agencies and organizations.

- Emergency response drill should conduct at least 1 a year.

- Lesson learn of past experience on disaster emergency response should be reviewed and sharing the good and weakness points for effectiveness response to future disaster.

 Information about past Major disaster should be awareness and education to the residents.

IV. My lesson learn to apply to my work



I will share my skills that gain from Japan such as:

 Assist NDMO to develop and implement disaster prevention plans.

- Sharing my lesson learn from Japan to my colleagues.

- Introduce the highlight activities to the local government through training.

- Continue strengthening collaboration and coordination with ADRC on sharing lesson learn and information about disaster.

