

Third International Symposium on Natural Disaster Risk Reduction

Development of NATIONAL DISASTER MANAGEMENT PLAN OF VIETNAM



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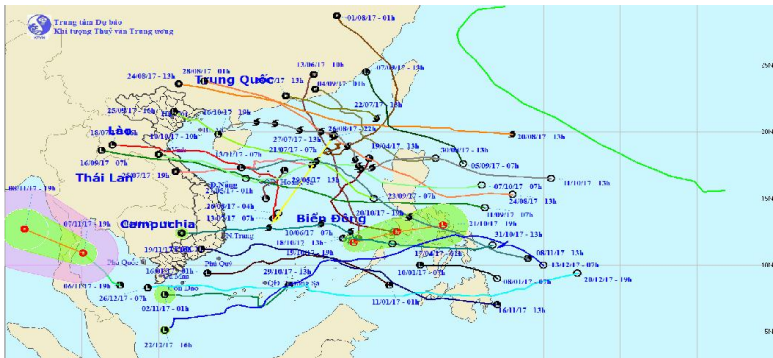
Outline

- I. **Background**
- II. **National Disaster Management Plan**
 - **Guiding Principles**
 - **Goal and Objectives**
 - **Proposal Measures**

I. BACKGROUND

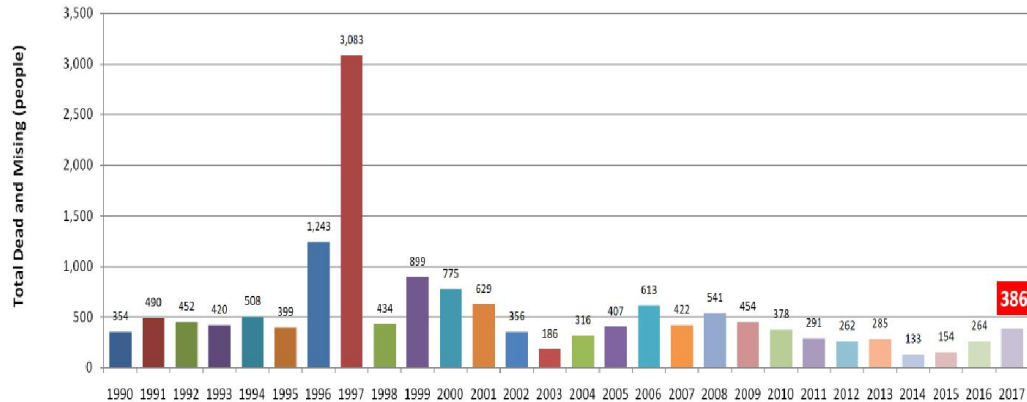
VIETNAM NATURAL DISASTER

- **20/21 types** (exception of tsunami)
- **Increasing in intensity and frequency**, causing severe human and economic losses
- **Over 11.000 dead and missing persons** (20yrs)
- **VND 28,000 billion (1÷1.5% of GDP)** (Economic loss to the GDP).

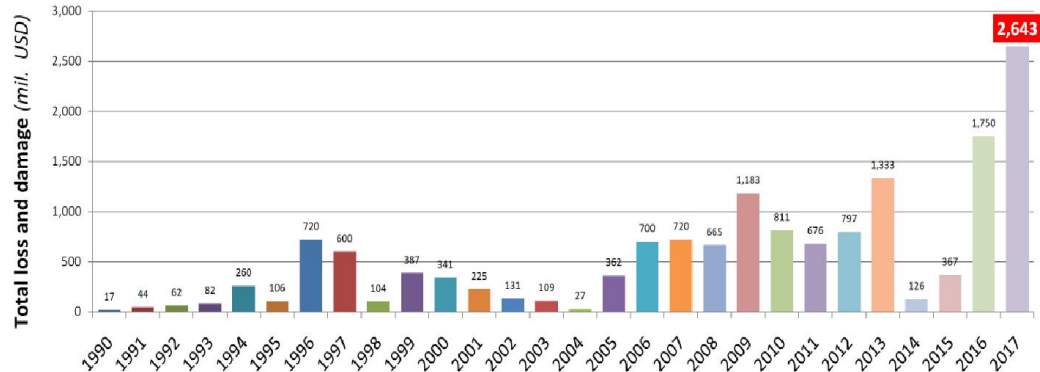


Pathways of 16 typhoons, 04 Tropical Depression in 2017 which appeared in the East Sea

TOTAL PEOPLE DEAD and MISSING BY NATURAL DISASTER 1990-2017



TOTAL LOSS AND DAMAGES 1990 - 2017

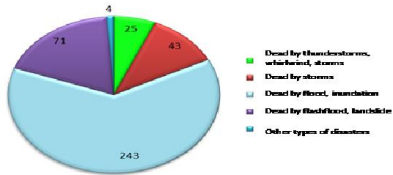


EXTREAM EVENTS

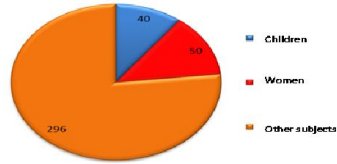
DAMAGE CAUSE BY DISASTERS IN 2017

DEATH TOLL

386 dead and missing



664 injured



PROPERTY DAMAGE

8.166 houses completely damaged

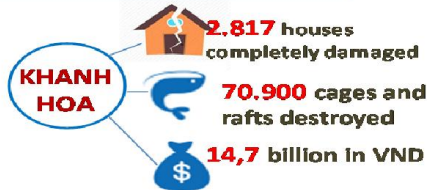
363.890 hectares of rice, crops damaged

Estimate of Economic loss
VND 60,000 billion

LOCALITY MOST EFFECTED IN 2017

Yen Bai province 53 dead and missing

Hòa Bình 38 dead and missing



First time warning on disaster at level 4 (Typhoon number 10, 12, 16)



Heaviest typhoons in the past years affecting Centre and Central Highland (Typhoon no. 10, no. 12); hit at high tides



History has never recorded a level 12 typhoon hitting East Sea in December (Typhoon no. 16)



Typhoon no. 12 (Damrey) and heavy rain and flood afterward causing highest death toll (123 dead and missing)



In 2017, largest number of People's Army and policemen were mobilized: 318.740 military men and more than 10,000 policemen

2017

EXTREME EVENTS

RECORDS IN 2017 DIRECTION AND COMMAND



- 12 Steering Meetings chaired by Government's leaders
- Over 41 missions of Steering Committee to supervise and urge the localities
- More than 20 missions lead by Government's leaders

PREVENTION AND RESPONSE TO NATURAL DISASTERS



Over 28 million SMS messages for alert, especially to district level



For the first time in history Hoa Binh hydropower dam discharged water from its 8 sluice gates during 16h30min



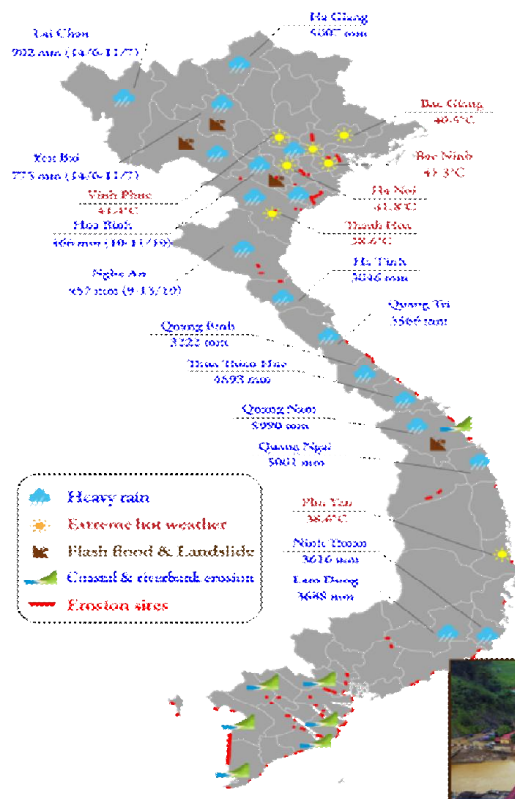
Established a consultancy team for calculating and managing reservoirs in Central Vietnam and the Central Highlands



Properly managed the reservoirs operation, reducing Huong River and Bo River flood peak by nearly 60cm and 35cm respectively



RECORD OF 2017 NATURAL DISASTERS HEAVY RAIN, FLOOD, FLASH FLOOD, LANDSLIDE & HOT WEATHER



- Heavy rain
- Extreme hot weather
- Flash flood & Landslide
- Coastal & riverbank erosion
- Erosion sites

RECORD OF FLOOD & HEAVY RAIN

- Big flood in Hoang Long river (Ninh Binh);
- Flood peak at Ben De station was 5.53m, 1.53m higher than alarm level 3 and 0.29m higher than record of 1985.
- Heavy and unusual rain in the area of Hoa Binh hydropower reservoir, causing big flood. The water flow to the reservoir was 15940m³/s.
- Hoa Binh hydropower plant opened 8 flood gates to discharge water.



COASTAL & RIVERBANK EROSION

- Coastal and riverbank erosion has become severe, especially in central coastal area and in the Mekong delta.



FLASH FLOOD AND LANDSLIDE

- 02-04/8/2017 in Muong La district (Son La), Mu Cang Chai district (Yen Bai) (32 deaths and missing persons);
- 10-12/10/2017 in Tan Lac, Da Bac districts, Hoa Binh city (Hoa Binh) (20 deaths and missing persons);
- 04-05/11/2017 in Bac Tra My & Nam Tra My districts (Quang Nam) (11 deaths and missing persons).

II. National Disaster Management Plan

1. Guiding Principles

A task of the
**Entire political system, of the
whole people and the entire
society**

**Catchment, Inter-regional, Inter-sectoral
Integrated into social-economic
development plans of each sector and
each locality**

Prevention is a primary task
*A motto of "4 on the spot" should
be applied, integrated into*
**Building Societal Resilience
to Disasters**

**Combination between constructive
and non-constructive measures**

**Mobilize private sectors and others to
invest in natural disasters prevention and
control.**
**Promoting application of science and
technology and long traditional
experience and practices**

**Implementation of the
international
commitments**

II. National Disaster Management Plan

2. Goal and Objectives

OVERALL GOAL

Proactively respond to natural disasters, adapting to climate change,
Mitigate Loss and Damage public and individual's property losses
Create enabling conditions for sustainable development,
Building Societal Resilience to Disasters

OBJECTIVES

To raise Public Awareness
(100% of the households provided with knowledge of DRR, especially in the disasters hit areas).

To reduce LOSS and DAMAGE
(especially due to natural disasters with scale and severity similar to that of the previous events).

To Build Capacity on Natural Disaster
(100% of the authority officials directly involved in DM are trained)

To Increase Resilience of Natural Disaster Works (Dikes, Reservoirs and Dams...)
Safety with designed frequency and adaptation to new effects by the natural disasters .

II. National Disaster Management Plan

3. Proposed Measures

1. To improve institutions, policies and legal documents

2. Consolidation of organizational structure and human resources

3. Investment in infrastructure

4. Application of science and technology, and enhancement of international cooperation

5. Information, education and communication to raise public awareness

Sendai Framework for Disaster Risk Reduction 2015-2030

3rd World Conference on DRR, 18 Mar 2015 (A/CONF.224/CRP.1)

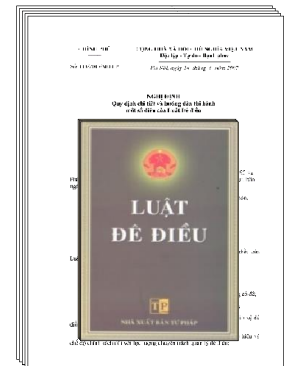
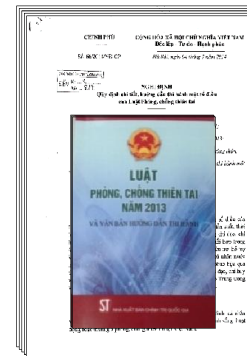
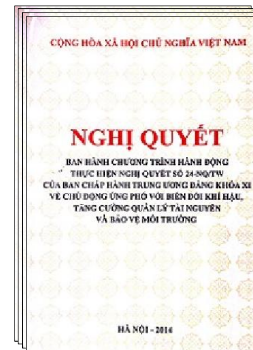
Priorities for Action

- **Understanding** disaster risk. ➡ Science
- **Strengthening governance** and institutions to manage disaster risk. ➡ Transdisciplinary DM
- **Investing** in economic, social, cultural, and environmental **resilience**.
- Enhancing **preparedness** for effective response, and **building back better** in recovery and reconstruction.

Professor Kuniyoshi Takeuchi

1. To improve institutions, policies and legal documents

- Review, revise the Laws: Natural Disaster Prevention; Dyke Management and Guiding documents
- Establishment of the **National DRR Fund**
- New Regulations on remediation and re-allocation and **receipt of relief goods after natural disasters**
- **To mobilize the Private setor**; Natural Disaster Risk Insurance; **Regulations on Control and Safety**

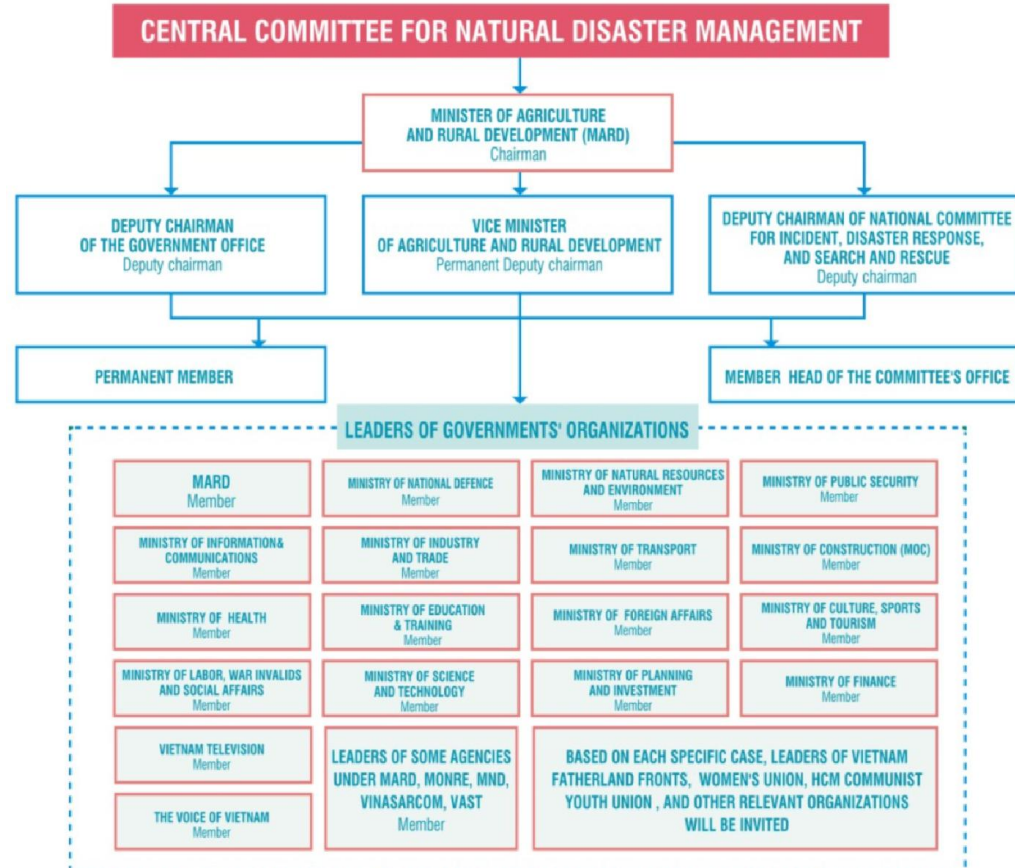


2. Organizational structure and human resources

To consolidate and **raise the scope** and responsibilities of the Central Steering Committee for natural disaster management

To consolidate the system of state management apparatuses and **inter-sectoral coordination** agencies for natural disaster prevention and control at all levels

Staff at all levels from the central to grassroots levels must be regularly **trained to improve** their professional skills.



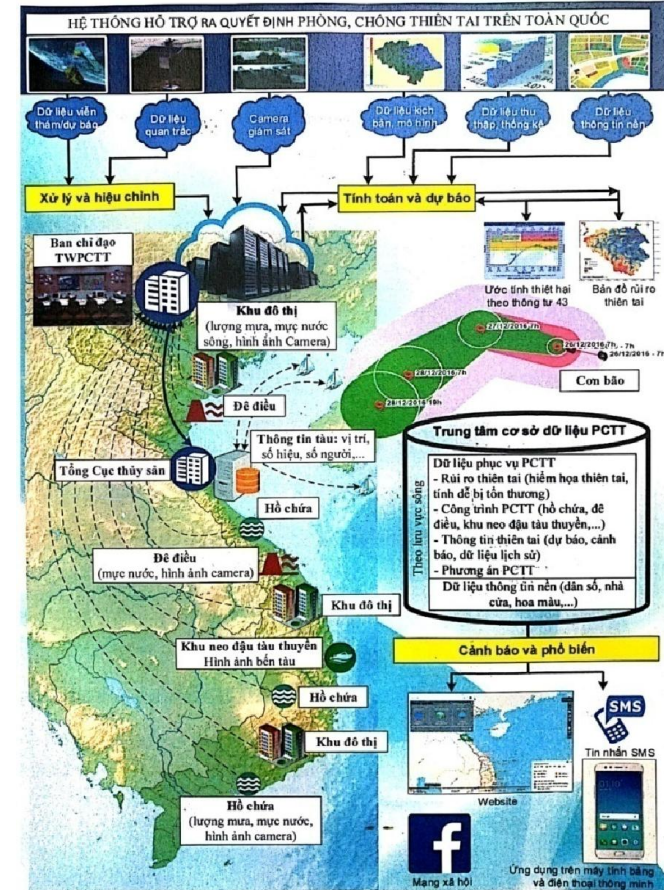
3. Infrastructure Investment

- To build a **NATIONAL CENTER of Natural Disaster Management and Control** (to provide timely, accurate and effective advices)
- **Online Connection** from the **Central to the Provinces**
- Urgent problems of **Dyke Works and Dams** after each natural disaster, especially those affected by **flood and flash floods**.
- Investing in infrastructure, **raising forecasting and warning capacities**; increasing the density of **automated monitoring stations** and promoting socialization of the construction of **specialized monitoring systems** for natural disaster prevention and control.
- Overall Program: **Flashflood and Landslides in Mountainous Provinces**; Central Region; Mekong Delta Region.



4. Science, technology and international cooperation

- **Technological solutions** for monitoring and warning of natural disasters, especially flash floods and landslides in mountainous areas and erosion of rivers and coasts
- **New material technologies** and construction solutions in storm-resistant houses, mobile dykes, salinity prevention dams, bank embankments;
- Development, construction of **databases**, transmission of images.
- **Cooperation with the upstream countries** of the Red River and the Mekong River.
- **Call for international TA**



5. Information, communication and training to raise public awareness

- Capacity of **Information and communication**
- **News of forecasts, warnings and Guiding documents** of the local authority to people
- Mechanisms and policies on **Telecommunication operators**
- **Organize training, communication to improve community capacity,**
- Programs **Understand the Risk** into the School and preferably at the **primary and secondary levels.**





**Vietnam Disaster
Management Authority**



Thank you for your attention