



**Asia-Pacific
Economic Cooperation**

2017/SOM1/EPWG/026

Agenda Item: 7.3.3

Promotion of Evidence-Based Disaster Risk Reduction Using Science and Technology

Purpose: Information
Submitted by: JICA



**11th Emergency Preparedness Working Group
Meeting
Nha Trang, Viet Nam
18-19 February 2017**

Promotion of Evidence-based Disaster Risk Reduction Using Science and Technology

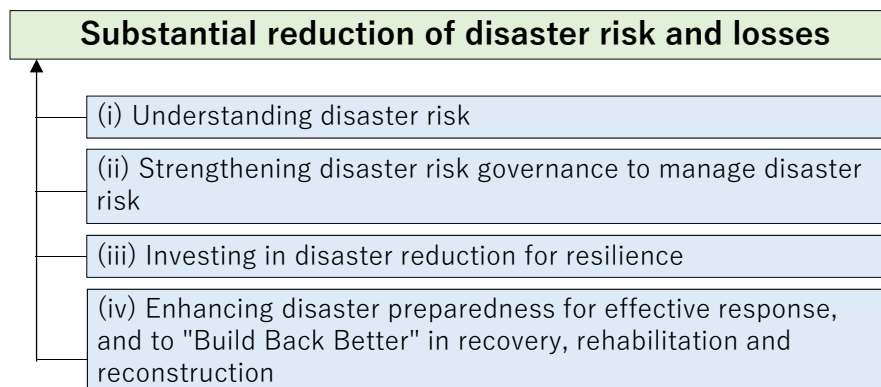
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Sendai Framework for Disaster Risk Reduction 2015-2030

- **Investment** in disaster risk reduction **through structural and non-structural measures** is emphasized.
- **“Build Back Better”** to utilize the opportunity of disaster recovery and reconstruction to **prevent disaster recurrence**.

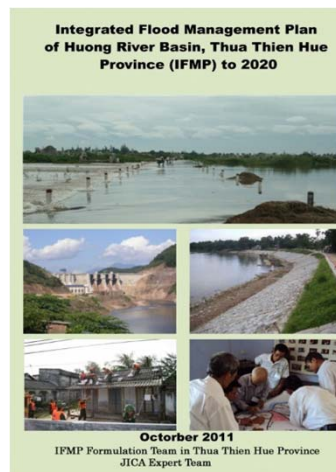


JICA's support for promoting flood DRR with a long-term perspective in Vietnam.

“Integrated Flood Management Plans (IFMP)”

(Developed in Thua Thien Hue Province and Quang Binh Province.)

- Participatory approaches to involve stakeholders.
- Understanding disaster risks based on scientific analyses.
- Development of a list of projects, for which expected budget sources are identified.
- Continuous review and improvement.
- A manual for formulating IFMP was developed by the Directorate of Water Resources, MARD in August 2016.



Integrated Flood Management Plan (IFMP) in Hue Province, Vietnam

Developed in 2011

Roundtable meeting

- 1 DARD Department of Agriculture and Rural Department
- 2 PPC Provincial People's Committee
- 3 DOIT Department of Industry and trade
- 4 BIFSC Bureau of Irrigation and Flood & Storm Control
- 5 PHC Provincial Hydrometeorology Center
- 6 DIC Department of Information and Communications
- 7 DONRE Department of Natural Resources and Environment
- 8 DOT Department of Transport
- 9 DOF Department of Finance
- 10 DPI Department of Planning and Investment

Under the Chair of
Hue Provincial People's Committee

The year 2020 is the target year.

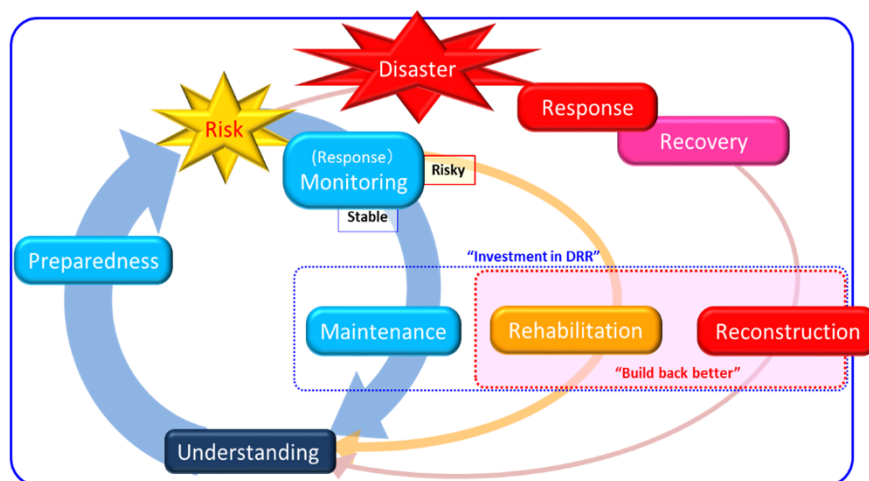
- Priority-1: 2012-2015
- Priority-2: 2016-2018
- Priority-3: 2019-2020



IFMP longlist Case of IFMP Hue 2011	
Non-Structural Measures	Structural Measures
1 Strengthening organizational capacity of PCFSC at provincial, district and commune levels	1 Program for upgrading rural infrastructures in some important areas
2 Formulation and revision of Disaster Risk Management (DRM) plans	2 Repairing and upgrading flood mitigation works 1 (dyke, culverts, pump stations)
3 Enhancement of flood and storm warning and forecasting capacity	3 Construction of flood mitigation works 2 (dredging, riverbank and costal erosion)
4 Public awareness raising	4 Program on resettlement, poverty reduction for the residents in the coastal and lagoon areas
5 Forestation and protection of forests	5 Construction of rescue centers in inundation prone areas
6 Strengthening information and communication systems for disaster management	6 Program of building flood and storm shelters for boats and ships, and fishing ports
7 Compilation of technical guideline for housing construction and propaganda on land use regulation for disaster prevention purpose	
8 Review of rescue and recovery policy after flood	
9 Enhancement of capacity to rescue and recover	
	As a long-list of all projects funded by annual budget and buck-up budget

JICA's proposal of a framework for sustained investment in DRR under IFMP.

Budgeting under "Integrated Flood Management Plans"



Existing Gap in utilizing Science and Technology for Disaster Risk Reduction

- Collection and accumulation of basic data and information are insufficient.

ex. Hydrological data, meteorological data, river cross-sectional profile, topography, etc.

- Data and information are not shared properly.

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- Tools to support utilization of basic data and information in DRR measures are lacking.

Issues of multiple dam operation in Vietnam

Basic data and information necessary for dam operation are lacking.

Water level, discharge, rainfall, etc.

- Improvement of ways to release stored water from dams in flood period is needed.
- Introduction of effective flood control operation of dams is expected.



Development of Water-related Disaster Management Information System for Emergency Reservoir Operation and Effective Flood Management by JICA (in preparation)

