



# **Japanese Modernization and BOSAI**

## **Integrating Disaster Risk Reduction Challenges with Sustainable Development**

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-Learning from Historical Lessons and Good Practices-

Dr. Shinichi Kitaoka  
President of JICA

- 1. Japanese Modernization and  
Disaster Risk Reduction**
- 2. JICA's International Cooperation on  
Disaster Risk Reduction**

# 1-1 Facing Mega Disaster, Modernization of Disaster Risk Reduction Policy



Isewan Typhoon (1959) hit in Tokai region and had killed more than 5000 people.

The third biggest damage after WWII



# 1-2 Investment on Disaster Risk Reduction for the Basis of Urban Development

More than 400 years of Flood Management for Urban Development in Tokyo

**Up to 15<sup>th</sup> Century**, Tone River crossed the Kanto Plain from north to south and flew into Tokyo Bay



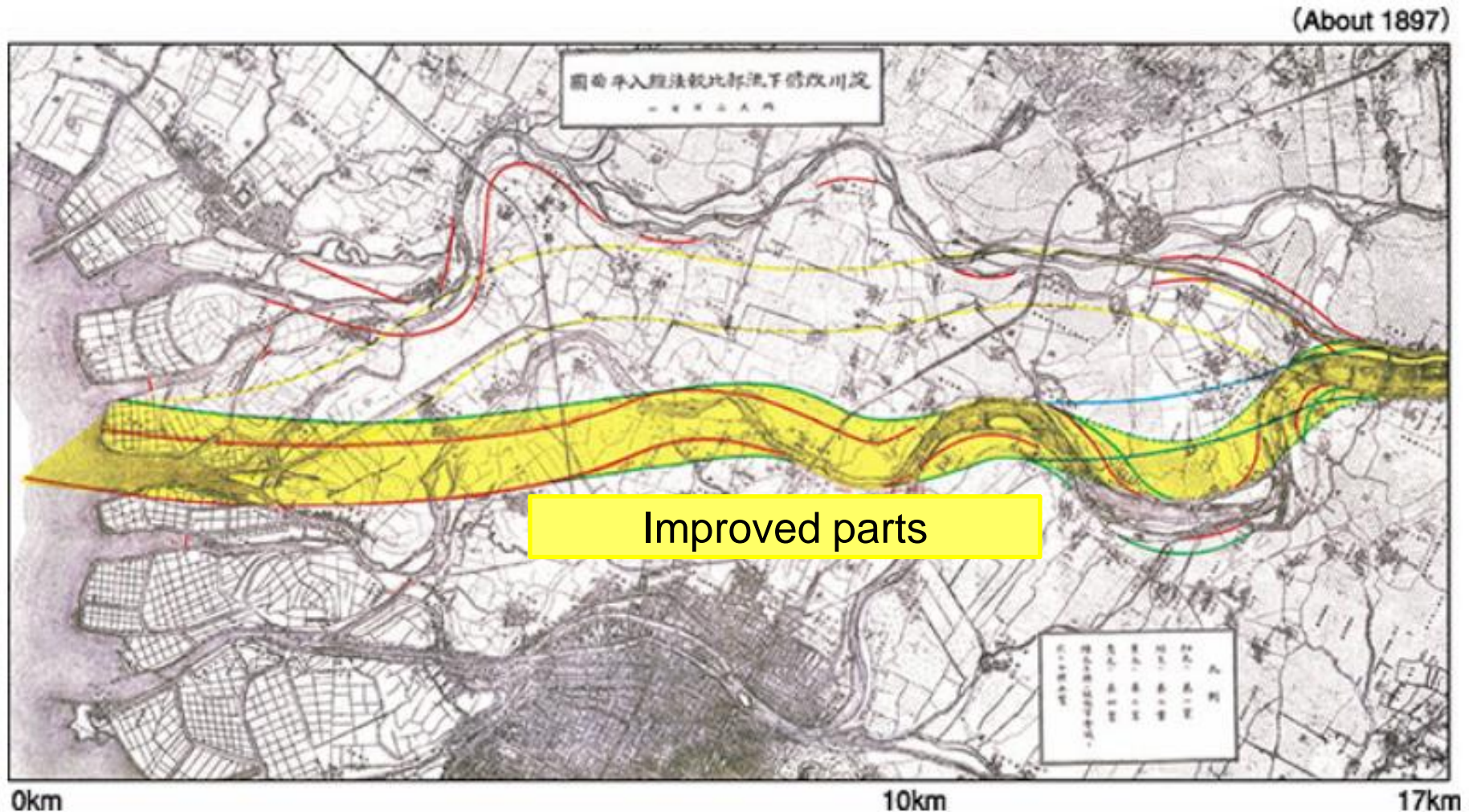
**From 1594 to 1654**, Tone River was connected to Pacific Ocean by eastward channel



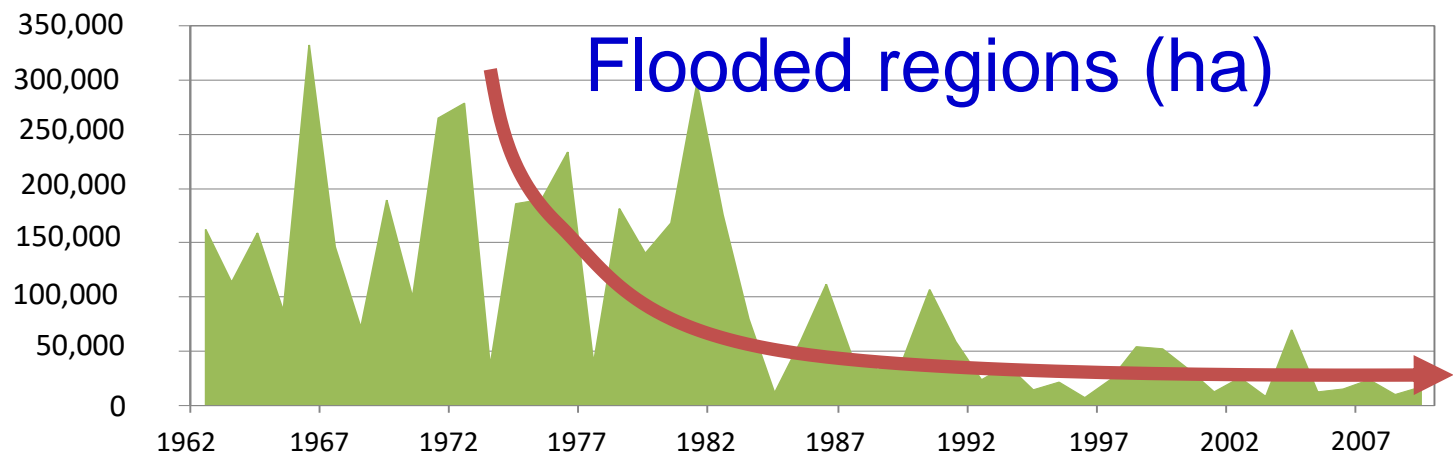
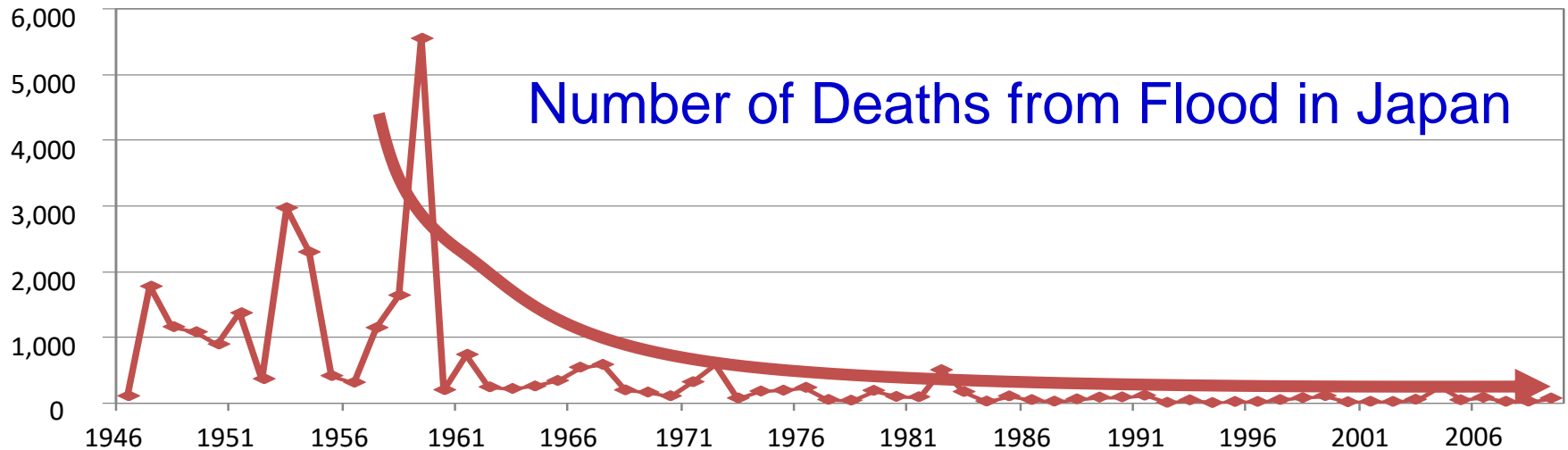


# 1-3 Investment on Disaster Risk Reduction for the Basis of Urban Development

Yodo River improvement work stabilized water level and mitigate flood

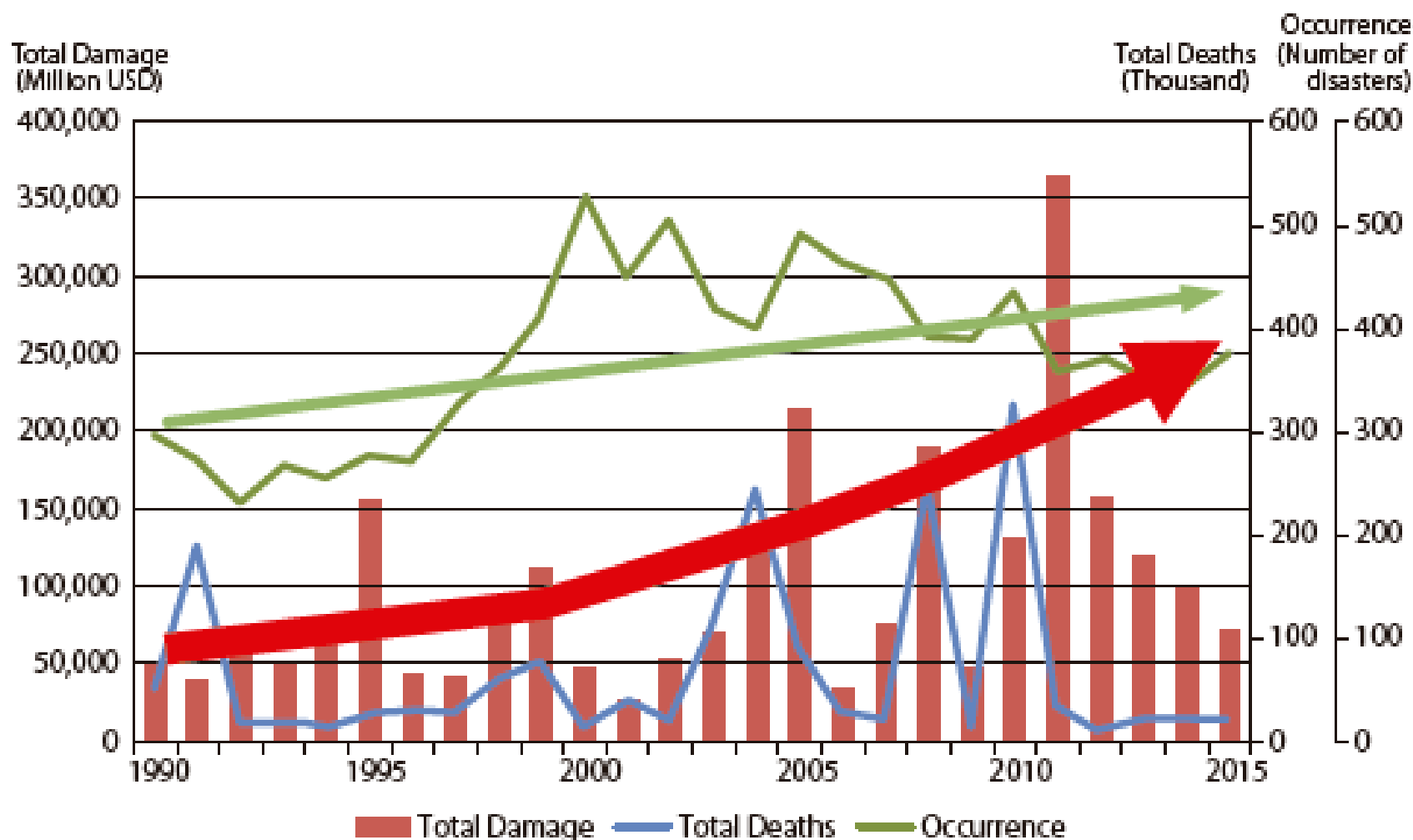


# 1-4 Significant Improvement of Resilience



Source: Water Disaster Statistics, Ministry of Land, Infrastructure Transport and Tourism

## 2-1 Increase of Disaster Risk in the World



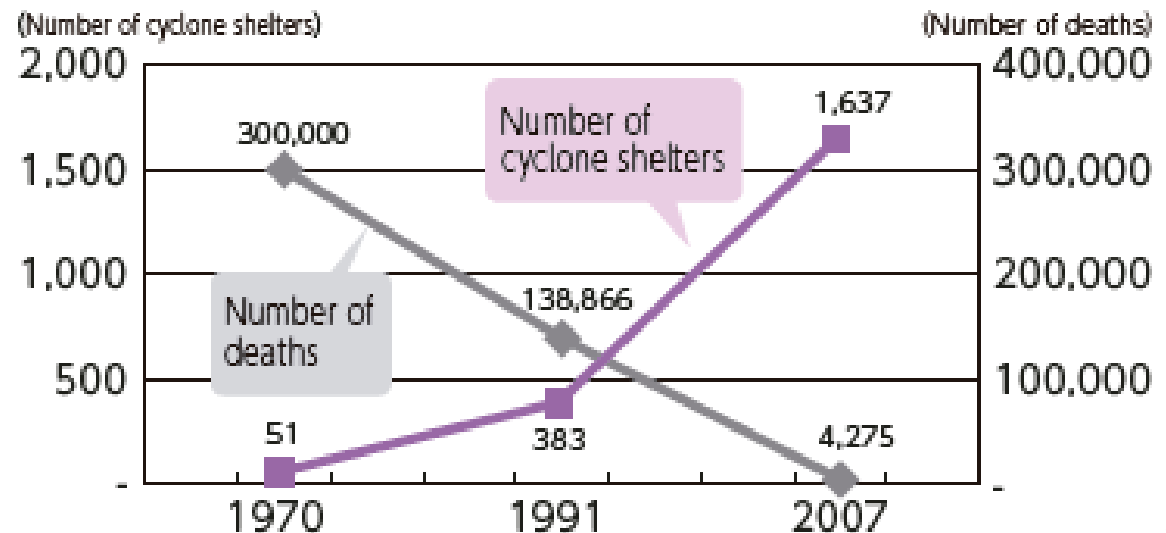
(Source: JICA developed this figure based on The International Emergency Disasters Database(EMDAT))

## 2-3 “Human Security” and “Sustainable Development” in Bangladesh



Multi-purpose shelters contributes to decrease victims in lowland areas.

### Shelters and Change in Cyclone Victims in Bangladesh





## 2-4 Pre-disaster Investment and Build Back Better concept for the Philippines



In 2013: President Aquino announced the Rehabilitation and Restoration Policy of the Aquino Administration.

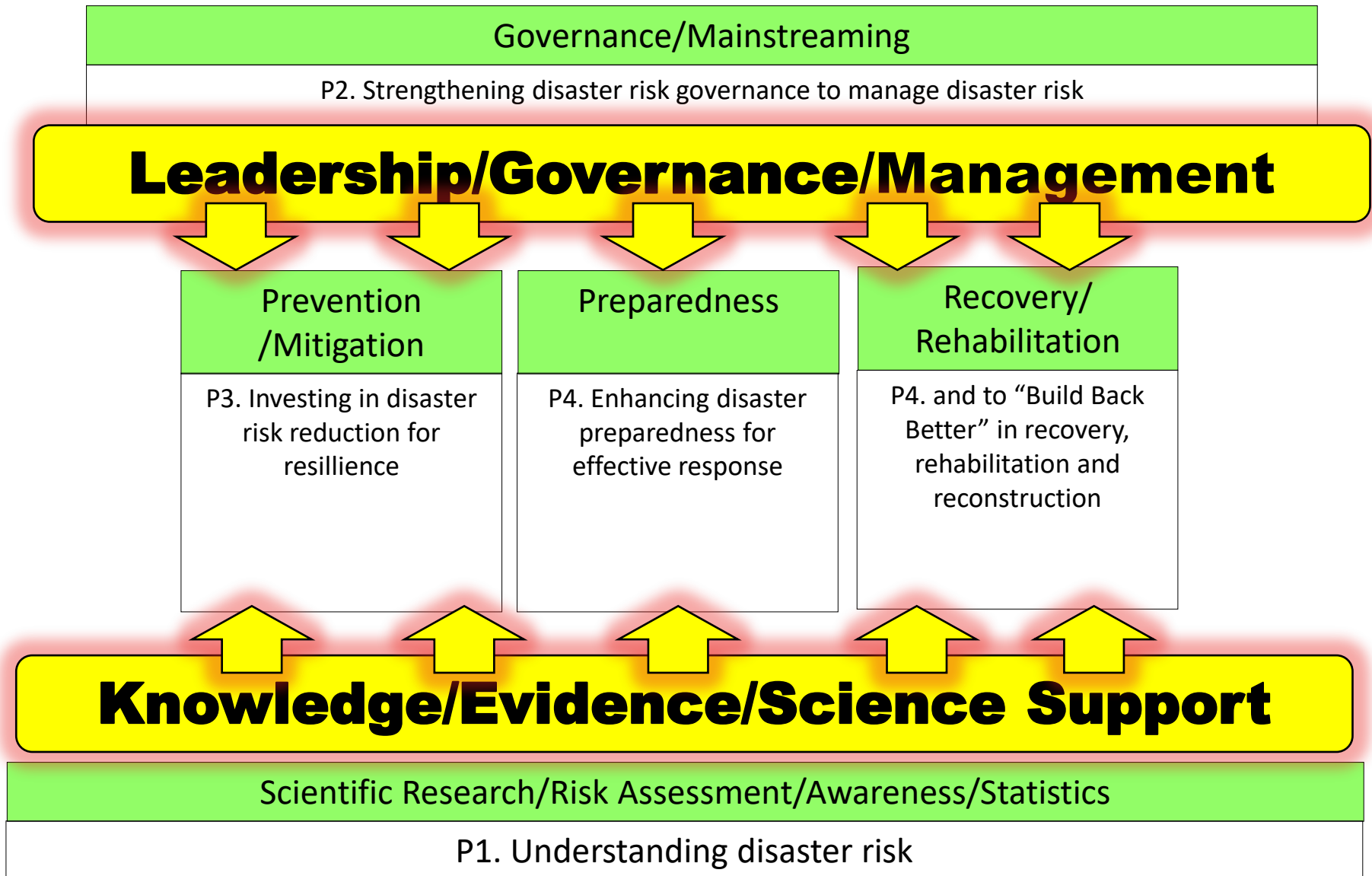
“Build Back Better” adopted as the basic concept of rehabilitation and restoration policy.



Since 2002: River improvement project at Pasig-Marikina River, Metro Manila.

“Pre-disaster Investment” for flood control decreases economic loss at urban and developing areas.

## 2-2 JICA's Approach along with The **SENDAI Framework** for Disaster Risk Reduction



Thank you very much for your attention

