

Workshop on Project Progress & Quang Binh IFMP, 07/Jul/2015

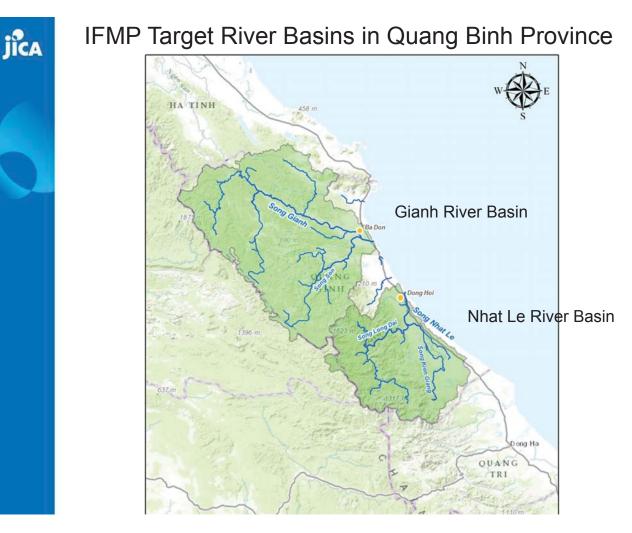
Reviewing Present Structural / Non-structural Measures and Result of Flood Simulation in Quang Binh

Yuki HACHIJO JICA Expert

The project for Building Disaster Resilient Societies in Vietnam (Phase 2)







08/Oct/2014 Structural Measures (Ron river, Gianh river)
09/Oct/2014 Structural Measures (Nhat Le river)
08/Nov/2014 Interview to Local (Tan Hoa, Thuong Hoa)
12/Nov/2014 Interview to Local (Phu Hoa, Quang Phuc)
13/Nov/2014 Interview to Local (An Thuy, Loc Thuy)

Schedule of Survey

jîc

jica

Ron river

Ly Hoa river

Nhat Le river

Dinh rive

Gianh river

The survey was conducted by DIFSC staff and JICA expert.

The place of survey was selected through the meeting with DIFSC and District People's Committee.

1. Nhat Le River Basin

Kien Giang river and Long Dai river





jîca

Riverbank erosion in Kien Giang Town

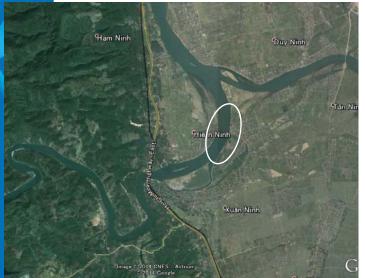


- Riverbank protection works has already constructed along the village
- Some area which has no protection works remain, but necessity is low because the flow is not so strong





Riverbank erosion in Hien Ninh Commune



There is some erosion that is needed construct riverbank protection works





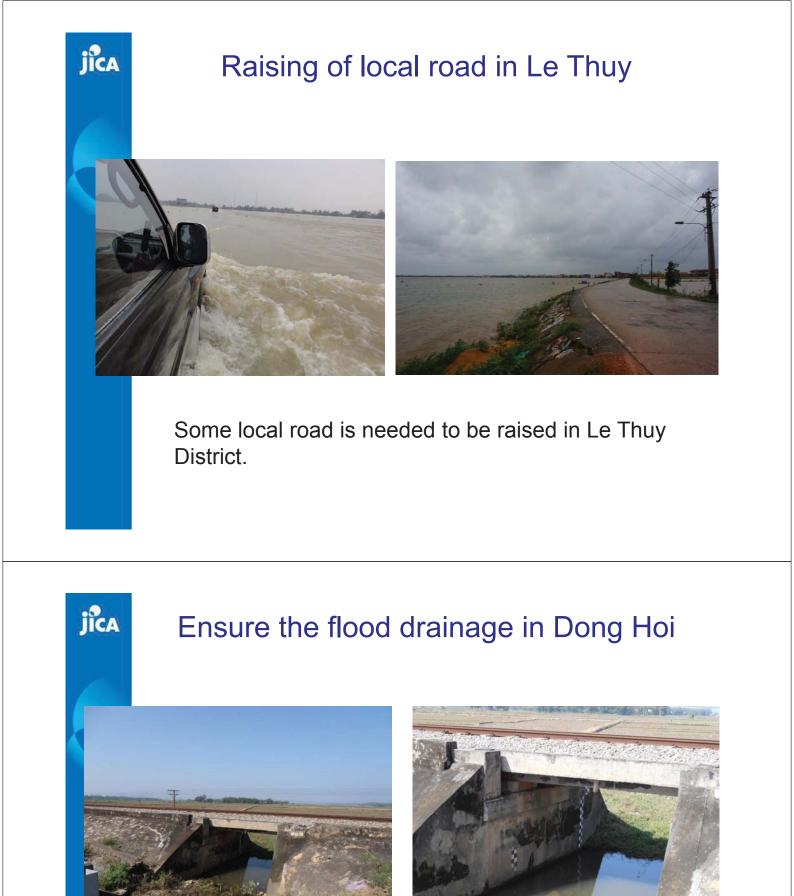


jîca

Aging of the facilities in Nhat Le river



Tidal weir, especially metal gate become old for work. Rehabilitation and daily maintenace are needed.



Some culverts is needed to upgrade for flood drainage in Dong Hoi city.

2. Gianh River Basin



jîca

Gianh River Basin

Minh Hoa District - Gradual inundation in case of heavy rain - But depth reach more than 5m

H 131

Tan Hoa commune

Tuyen Hoa and Quang Trach District - Almost whole area along the river is flood plain - River flow is very fast when flood comes Gien Hoa Ba Don town Cuang The Cuang The

Phu Hoa commune

Quang Phuc commune

Google ear

Thuong Hoa commune

Quy Đạt

No.

2014 CNU



Interview to Local in Minh Hoa District (Upstream Area)



Poverty rate is high and many vulnerable people live in this area

- Communal Committee for Flood and Storm Control is effectively functioning
- People living here appropriately evacuate in case of heavy rain
- In Tan Hoa and Thuong Hoa commune, there was no death even in historical flood 2010
- They don't feel fear to flood, but they want to protect assets against inundation

jîca

Necessary measure in Minh Hoa district

- Construct evacuation shelter for residents
- Establish more floating house for protecting of assets
- Reserve drinking water and power generator in case of inundation
- Implement CBDRM more certainly and effectively





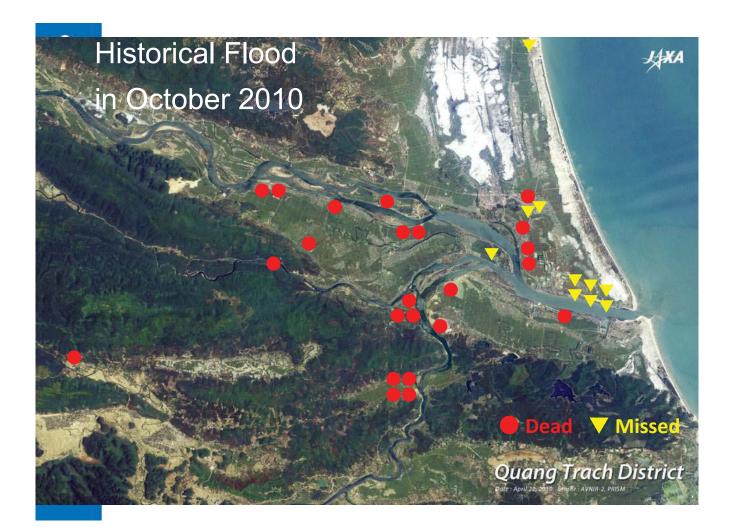
Riverbank erosion in Phu Hoa Commune (Downstream Area)

At the time of flood, river runs straight on Phu Hoa Commune. Strong flow makes erosion around the commune.



jîca







Flood forecasting and evacuation order

In order to protect human life against flood and storm, it is most important to evacuate to safe place certainly.

Committee for flood and storm control have to make flood forecasting and evacuation order appropriately.



jîca

Storm shelter for fishing boats

Storm shelter for fishing boats has already constructed. It should be constructed in Hon La and Nhat Le river next.







jica

Current status and Challenges

Based on Action Plan implementing the National Strategy for Disaster Prevention and Mitigation in QB province, budget for high priority programs have already been allocated and implemented. But many measures has remain despite of necessity for disaster prevention, especially in poverty and ethnic-minority area.



Challenges

- Mapping and visualization where structure measures have done and plan
- To clarify which area and which measure has priority in next 5 years.
- To monitor and maintain the facilities that has already installed



3. Flood Simulation

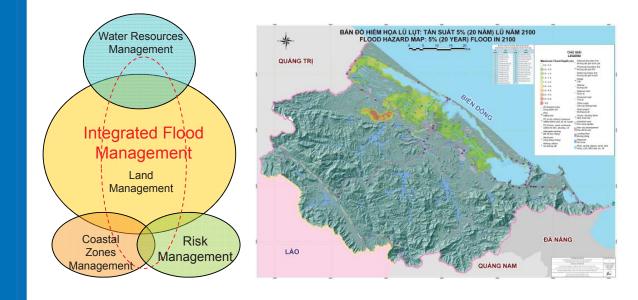
What's IFMP ?

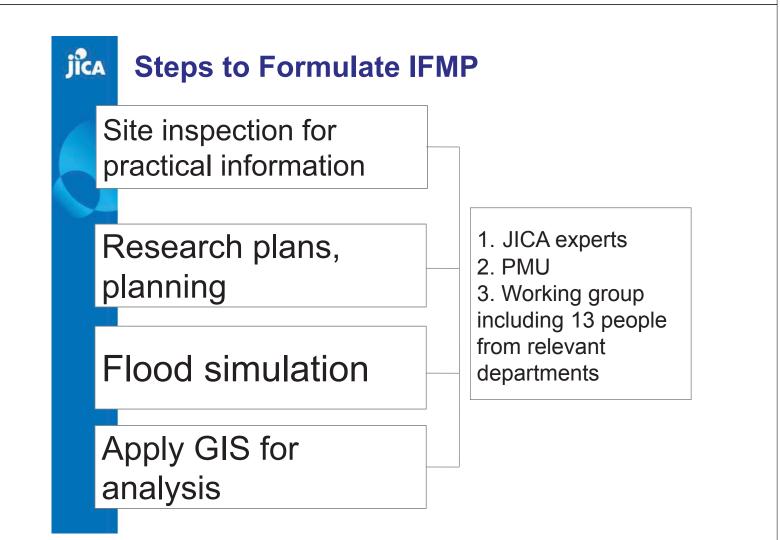
jica

 IFM is a process promoting an integrated – rather than traditional fragmented – approach to flood management.

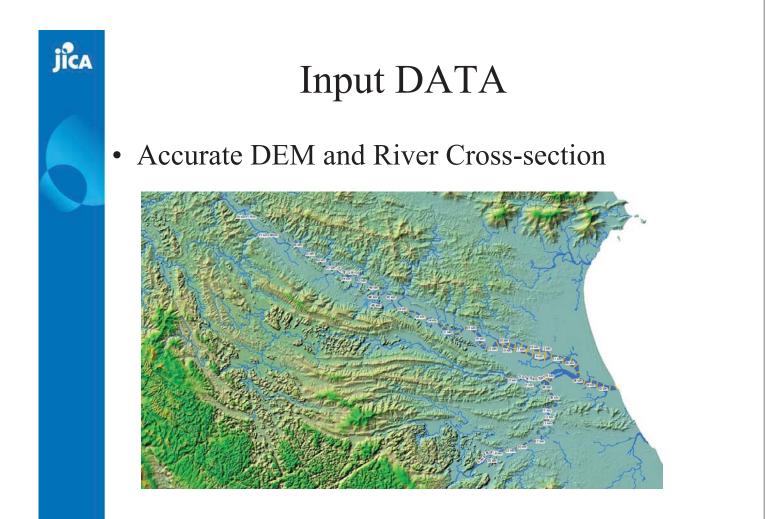
To aim at maximizing the net benefits from the use of floodplains and minimizing loss of life from flooding.

Accurate Flood Risk Assessment is essential for IFM.





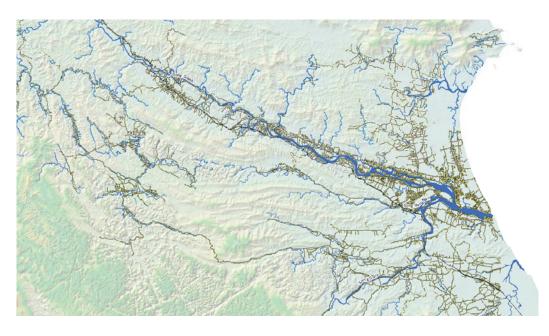
Imput data Digital Elevation Model (DEM) Geographic Information System (GIS) Land use map River cross section Railway and national road 1A Tide at river mouth Hydrology and Meteorology

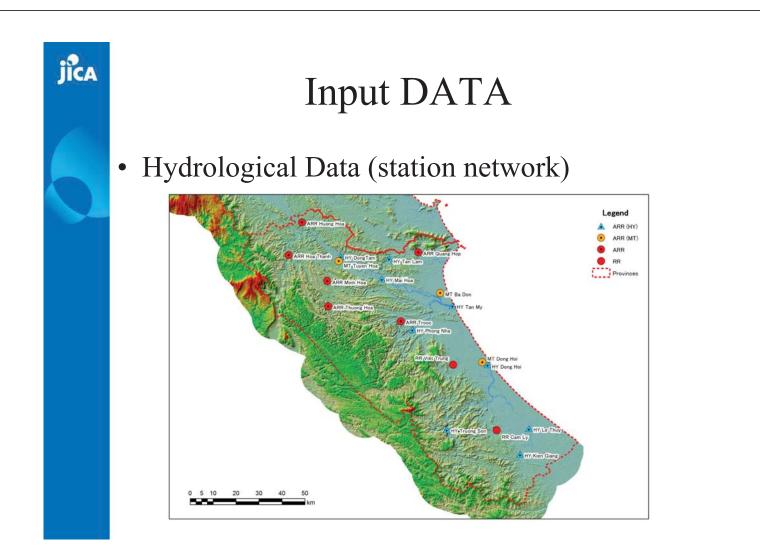


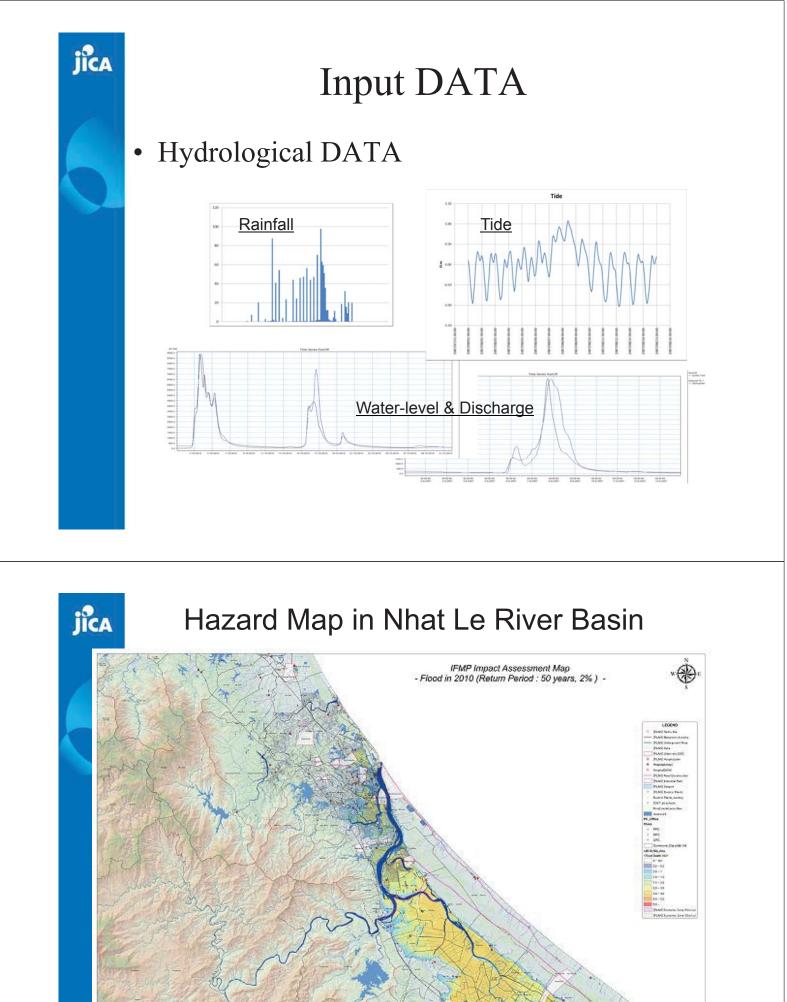
Input DATA

• GIS Data (River network, Transportation...)

jîca



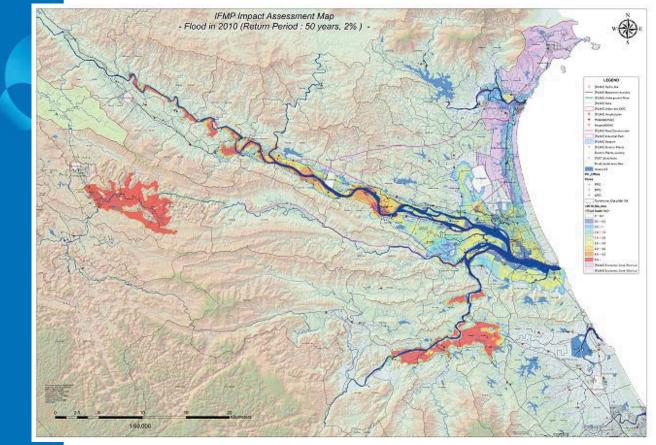




1.00.000



Hazard Map of Giang River Basin





Thank you !