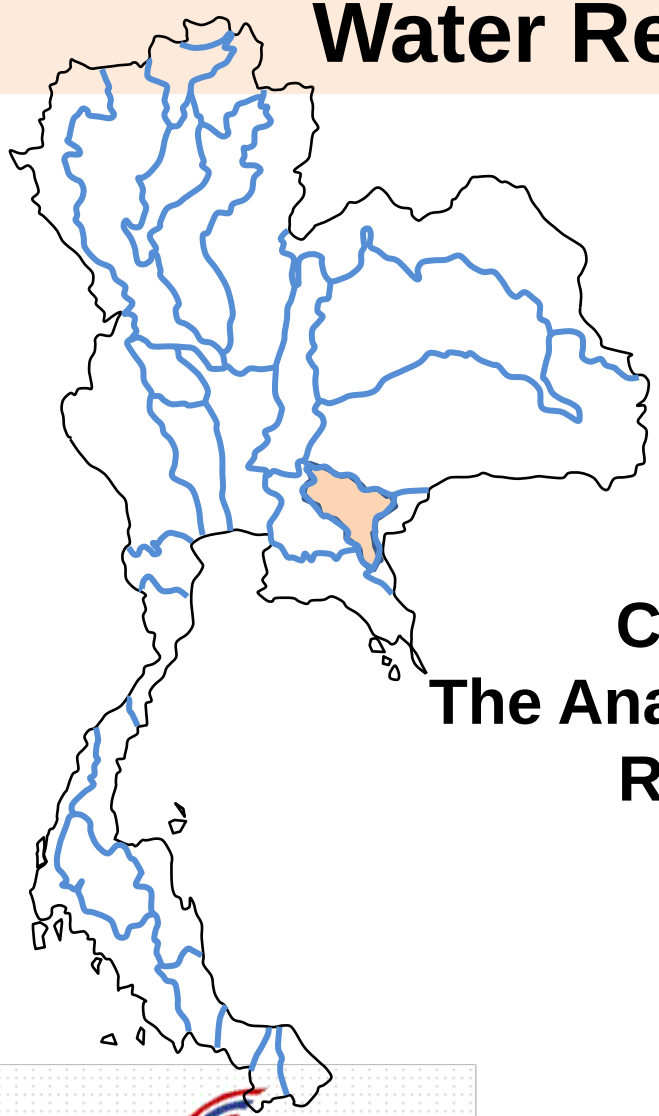
“Study on Analysis of Sustainable Water Resource Use”



Closing Workshop for The Analysis of Sustainable Water Resource Use Project

GCP/RAS/241/JPN

23 August 2012
Courtyard Marriott
Bangkok, Thailand

Thai Water Partnership

Working concept

concept: multi-stakeholders process (MSP)

Methodology-Tools: Dialogue / participatory approaches and public deliberative tools

Assumption: continuous dialogues and practices among all parties involved on (agreed) common issues.

Expected outcomes: shared views and common grounds agreed upon by all stake-holders.

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Specific objectives of the Project

1) To study and survey on water management: problems and potentials of the Bang Phluang Irrigation Scheme,

2) To enable the understanding and the knowledge of local water users, their networks, and line agencies on water management in Bang Phluang Irrigation Scheme,

3) To develop common agreement and “partnership” cooperation in order to sustain water resource use in the Project’s area.

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Main outputs and activities

Local resources survey and Assessment, water use and management of local users, and survey on community socio-economics data

Conduct Resources Mapping and Participatory Geographic Info. Maps with local user groups

Organize forums in sub-watershed to assess constraints and alternatives with local users

Undertaking ‘case study’ on effective water resources management by water users and production groups in 6 sub-zones

Summarizing on the agreements and cooperation among involved groups based on data from sub-zones

Reporting

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Water management
(Irrigation System in the middle reach of the river)

Water gate to regulate fresh water in rainy season and block saline water in dry season.

Flooding and Pumping water out of the area

Rice harvesting in the flood prone area

Expansion of residential area

Different activities, different water use pattern in the same area

Mechanization in land preparation for rice farming

Mechanization in rice harvesting

Fish Cage Growing in Prachinburi River

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Fish Pond Growing

Partnership

Findings

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Water Management

- **At farm level**-individuals/ water user groups -- irrigation canal system, electric pump, mobile engine pumps
- **At scheme level**-Line agencies--River system and Water Gate; Networks of canals
- **At Basin level**-Line agencies--River Basin Committee via Irrigation Scheme

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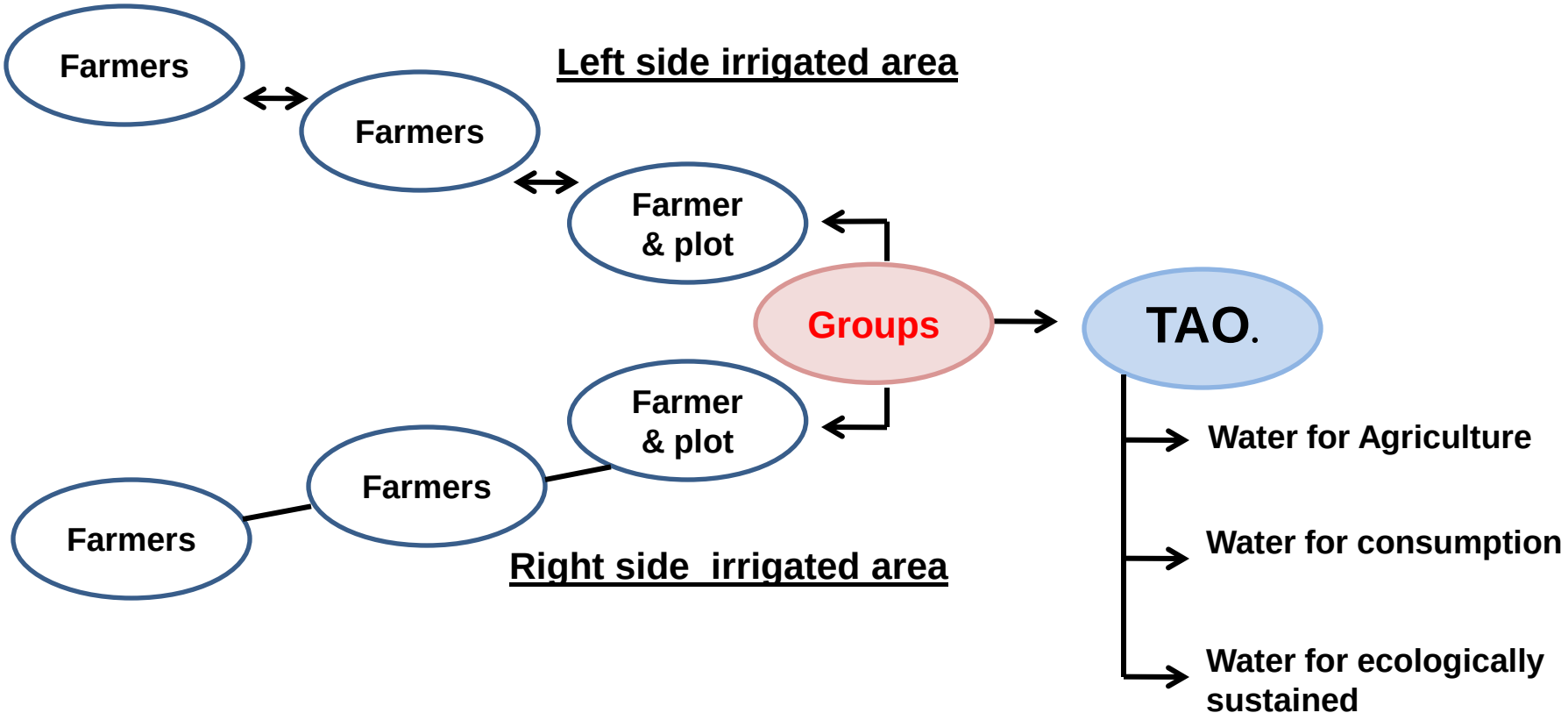
Water Management at farm level by Local User Groups++TAO

"Rotational Management"



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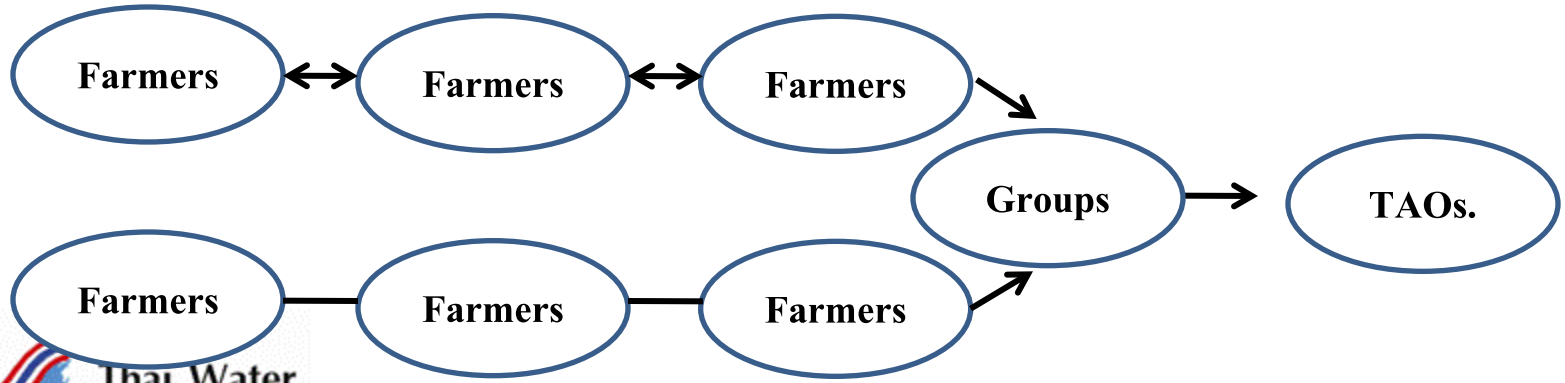
1. Water Allocation at Local level

Who??

Farmers	Farmers	Households
Fish raising	Rice growing	Drinking& consumption

How?

-How to use?	----------	----------
-How much?	----------	----------
-How to manage?	Needs	----------
-Expense per unit	----------	----------



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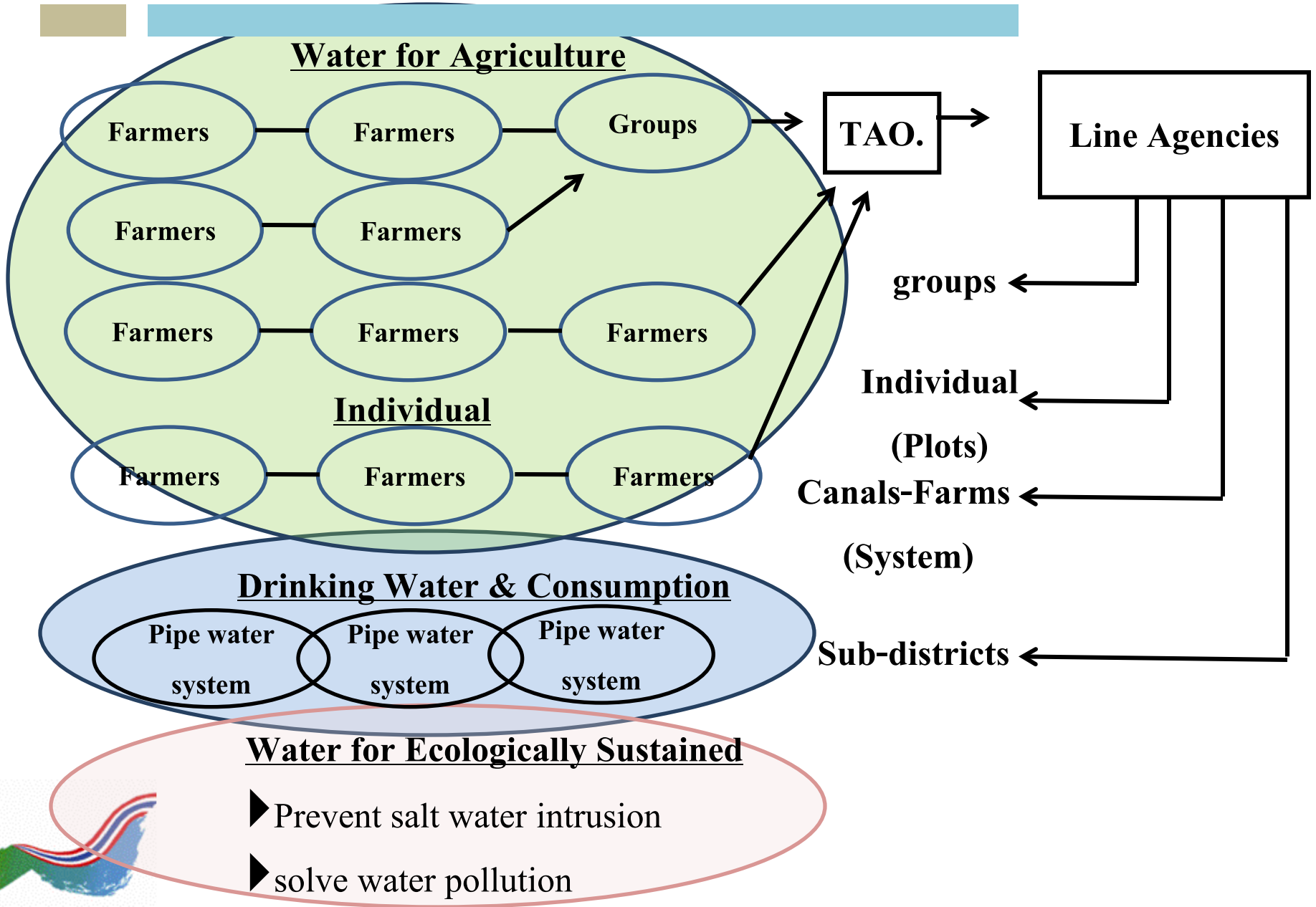
2. Water Allocation at Scheme Level



3. Water Allocation at Basin Level

Water Resources: Supply…m.

Water Reserved …. M^3.

Allocation to various sections

Water Resources Capacity…….Mm^3. Water management

- Who has used water?
- Water need – water use(how , how much and when)??
- water management
- Management Structure
  - Groups
  - Local Organizations
  - Line agencies

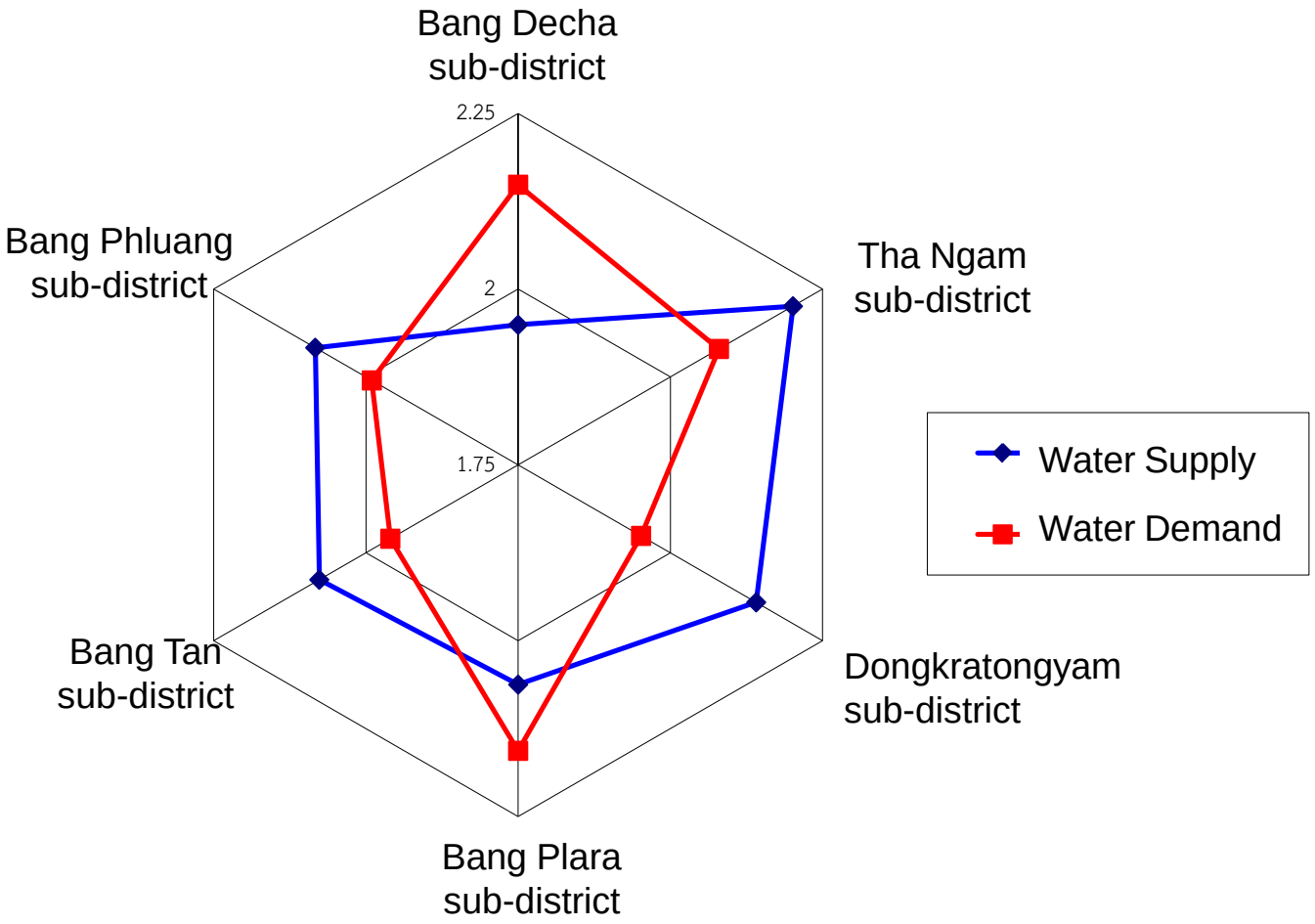
Agricultural Production
-rice, fish , shrimp
-orchard

Drinking-consumption

Industries

Partnership

Water supply VS Water demand in project area



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Market Accessibility

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Rice Markets Fish & Shrimp Markets

Achievement of the Project

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1. Ad hoc Committee on Water Allocation

❖Study, research, and analyze situation, problems and causes of water use and water allocation in 6 pilot sub-districts,

❖Identify framework and work guideline with the working committee, so that the working team agrees upon research plan and work towards collaborative research on water use and water allocation at sub-district level,

❖Promote participation and learning of all stakeholders, in order to lead to common agreement on water resources management in the near future.

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2. Application of Resources mapping by local users.

Training on P-GIS

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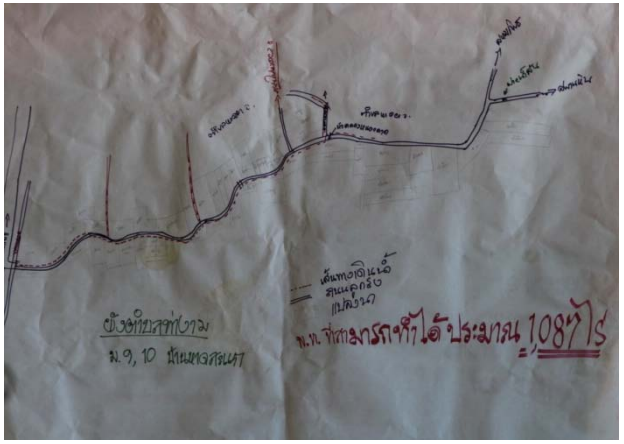
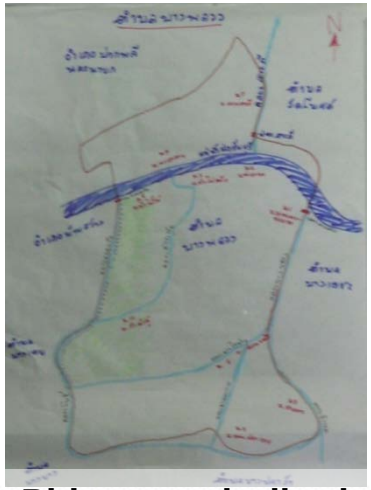
Local Resources Mapping: Self assessment & actualization

Bang Decha sub-district



Tha Ngam sub-district

Dongkra tongyam sub-district



Bang Phluang sub-district

Bang Plara sub-district

Bang Tan sub-district

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P-GIS-tool for stimulating Local Dialogue



Meeting w/ local stakeholders on water allocation for small-holder farmers .



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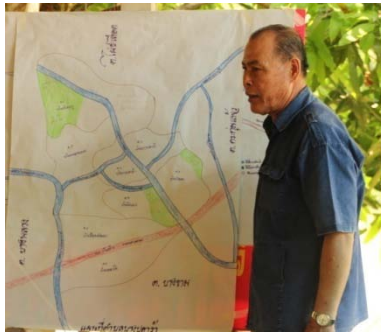
Modern technologies to compliment the ‘mental mapping’



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Local Dialogues

3. Assessment of resources using in the project area

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4. Capacity building of the RBO on Rice Marketing assessment

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5. Capacity building of the RBO on Fish & Shrimp market: marketing channels

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6. Capacity building of the RBO on Salt water intrusion Monitoring

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Alternatives proposed by Ad-hoc Committee on Water Allocation

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Alternatives proposed

Scenario 1 : as “Status Quo”

Scenario 2 : Adaptation to change

- Differentiation of sub-Zone
- Maximization of Flood ways
- Crop calendar adjusting

Scenario 3 : Establish mechanism to allocate water as ‘Water Enterprise’

-ensure optimum water use

-common agreement to cope with ‘CHANGE’

-informal institution to issue water license

-pilot prj. To initiate explicit water allocation

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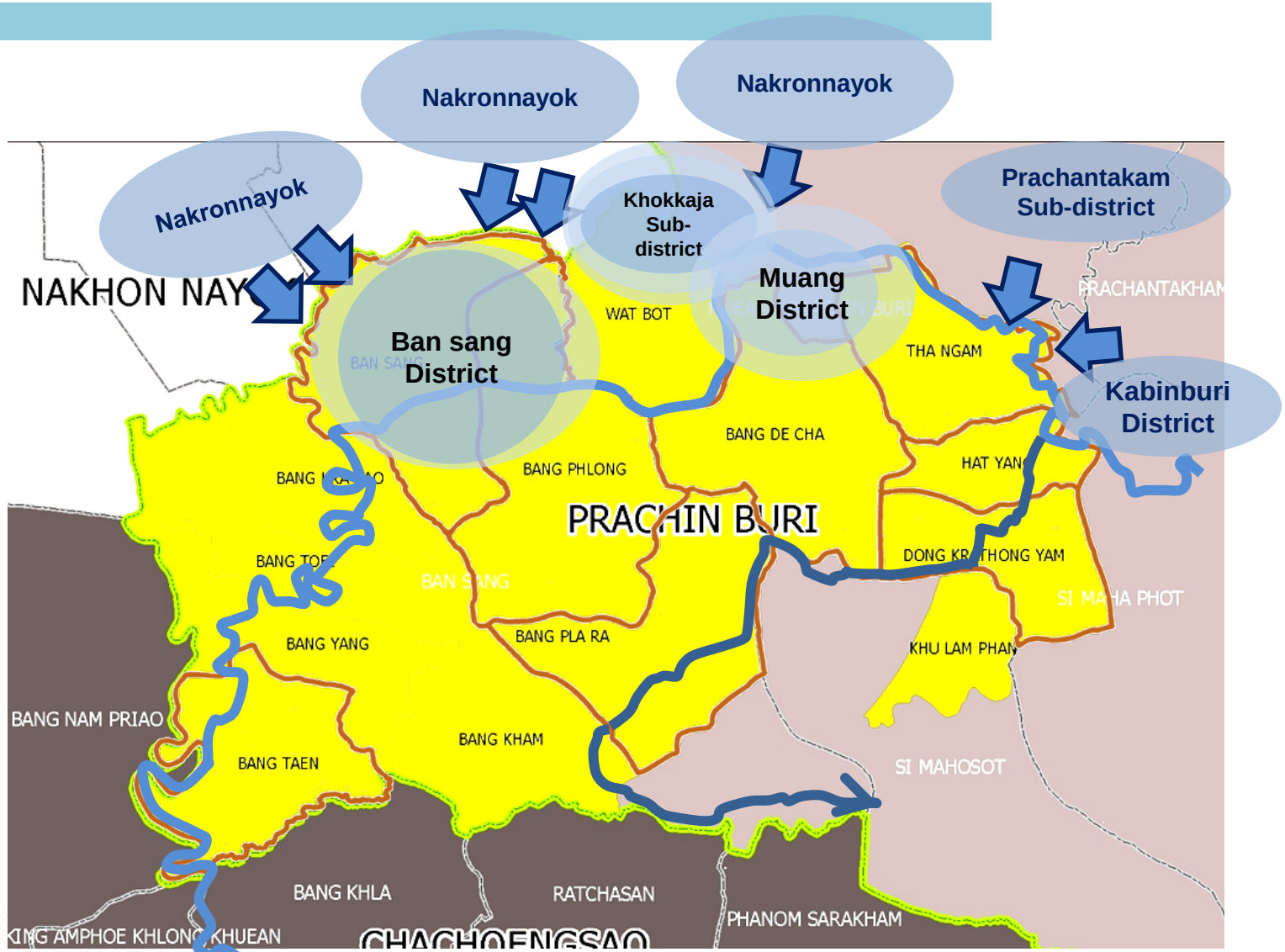
Second Scenario : Adaptation to cope with changes



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Third Scenario: Establish mechanism to allocate water as 'Water Enterprise'

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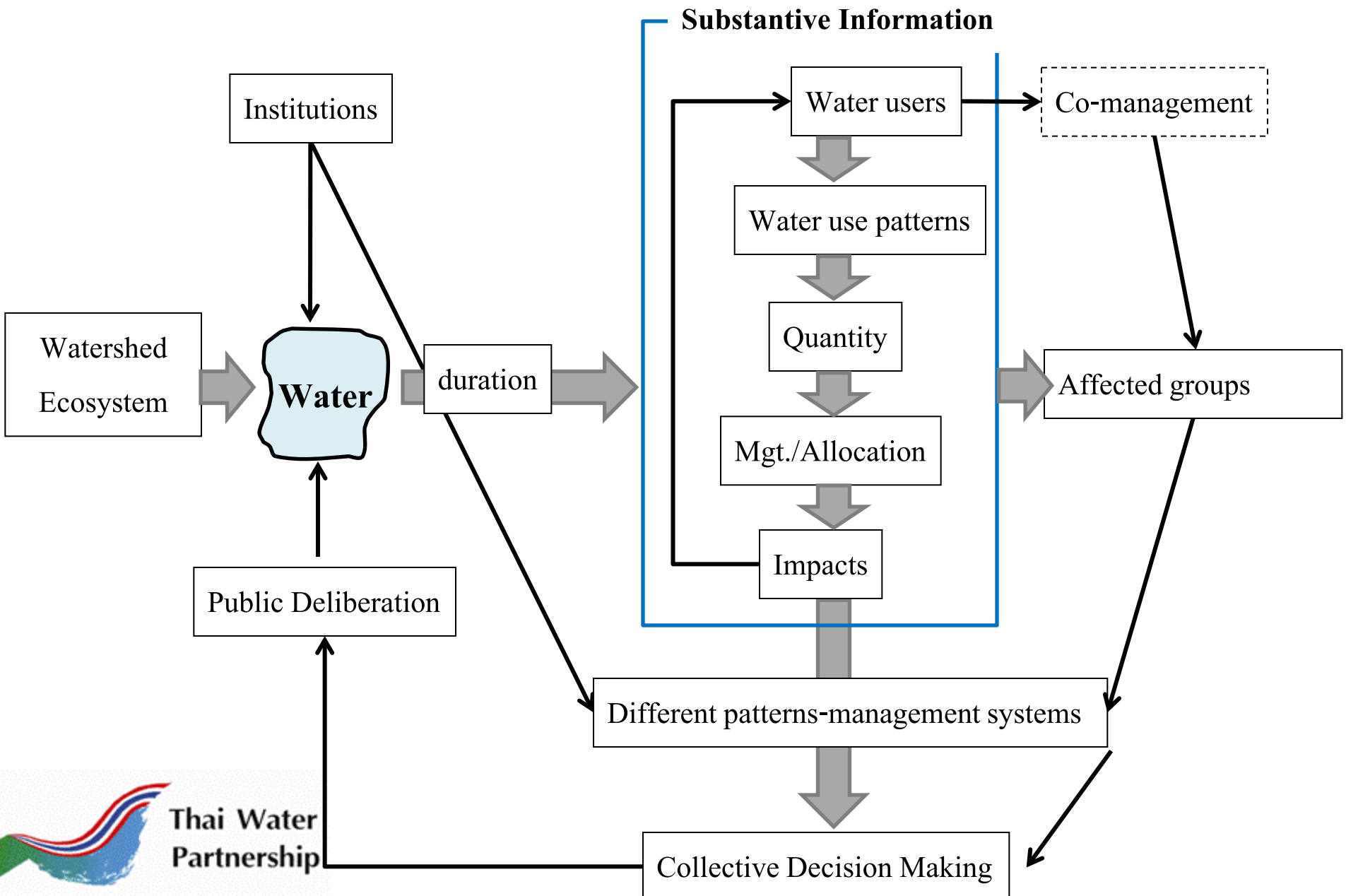
The Project on the guideline for participatory water allocation by multi-stakeholders in Prachinburi sub-basin



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