



# Knowledge Sharing Among Water Sector Authorities

Session 2-B: Financing Capacity Development and Knowledge Sharing

The views expressed in this paper are the views of the authors and do not necessarily reflect the views or policies of the Asian Development Bank (ADB), or its Board of Directors, or the governments they represent. ADB does not guarantee the accuracy of the data included in this paper and accepts no responsibility for any consequences of their use. Terminology used may not necessarily be consistent with ADB official terms.

**By: Somkid Buapeng**

Deputy Director General, Department of Groundwater Resources (Thailand)

GWP SC Member (Thailand)



# Content overview

- Water sector authorities in Thailand and their responsibilities
- Experiences and knowledge sharing among water sector authorities
- Water resources management activities and sources of financing
- Conclusion

# Water sector authorities in Thailand and their responsibilities

- Ministry of Natural Resources and Environment
  - Department of Water Resources (DWR)
  - Department of Groundwater Resources (DGR)
- Ministry of Agriculture
  - Royal Irrigation Department (RID)
  - Land Development Department (LDD)

# Water sector authorities in Thailand and their responsibilities *(Cont.)*

- Ministry of Interior

- Department of Disaster Prevention and Mitigation (DDPM)

- Department of Local Administration (DLA)

- National Economic and Social Development Board (NESDB)



# Water sector authorities in Thailand and their responsibilities *(Cont.)*

- National Water Resources Committee (NWRC)
- River Basin Committee (RBC)
- Metropolitan Waterworks Authority (MWA)
- Provincial Waterworks Authority (PWA)

# Experiences and knowledge sharing among water sector authorities

- **Figure 1:** Integrated water resources management plan 2007 (*next slide*)

# Integrated Water Resources Management Plan 2007

## Budget Plan

**Eliminate poverty in country level**

**Eliminate poverty in community level**

**Improve the structure of agriculture**

**Create the suitability for natural resources utilization and conservation**

**Water resource management system**

## Management Plan

**Forest rehabilitation and ecology; improvement of soil erosion in water source**

**Solving flood problem area**

**Solving drought problem area**

**Solving water quality problem area (all of 25 watersheds)**

**Having mechanism for water resource management participation in 25 watersheds**

**Watershed Plan**

# 25 watersheds / 75 provinces

**Management Guideline**

**Water source management**

**Intermediate reach water source management**

**Lowest reach water source management**

**Management system**

**Activity**

- Conservation, development, and rehabilitation of water source
- Rehabilitation of forest in upper reach
- Conservation and rehabilitation of forest

- Improving pipe line
- Expanding water supply
- Flooding prevention
- Solve the inadequacy of water used
- Improve the royal water irrigation system
- Conservation, development, and rehabilitation

- Construct the wastewater treatment plant
- Improve the wastewater treatment plant
- Proceeding of pollution prevention and reduction
- Conservation and rehabilitation of coastal area

- Introducing water resource management
- Participation of water resource management
- Groundwater management and conservation

**Institute**

- Ministry of Natural Resources and Environment  
Province  
...  
Province  
...

- Ministry of Natural Resources and Environment  
Province  
...  
Province  
...  
- Ministry of Agriculture  
- Ministry of Interior  
- Department of Local Administration

- Ministry of Natural Resources and Environment  
Province  
...  
Province  
...  
- Department of Local Administration

- Ministry of Natural Resources and Environment  
Province  
...  
Province  
...  
- Department of Local Administration

**Indicator of Target Planning**

Rehabilitation of forest and soil erosion in upper reach

Solving flood problem in critical area

Solving drought problem in critical area

Solving water quality problem area (all of 25 watersheds)

Having mechanism for water resource management participation in 25 watersheds

**Upper reach**

**Intermediate reach**

**Lowest reach**

**Management system**

**Indicator of Target Budget**

**Target 1:** Conservation and rehabilitation of forest in water source

**Target 2:** Providing and developing of water supply

**Target 3:** Solving water quality problem


**Target 4:** Having mechanism of water resource management participation

**Indicator 1:** Number of rehabilitated forest area  
**Indicator 2:** Number of improved and soil erosion protected forest and sheer area

**Indicator 1:** Number of obtained water supply village  
**Indicator 2:** Number of obtained water resource agricultural area  
**Indicator 3:** Number of preservative capacity of constructed and natural water resource  
**Indicator 4:** Flood problem protected area  
**Indicator 5:** Ecological improved natural water resource area

**Indicator 1:** Number of Local Administration that have an improved wastewater management system  
**Indicator 2:** Number of rehabilitated mangrove forest

**Indicator 1:** Survey, design, and implementation of water resource planning  
**Indicator 2:** Development of database and information technology  
**Indicator 3:** Population/Organization awareness in participation of water resource management for 80 percents



# Experiences and knowledge sharing among water sector authorities *(Cont.)*

- **Figure 2:** Water utilization providing implementation step *(next slide)*

## Proceeding guidance

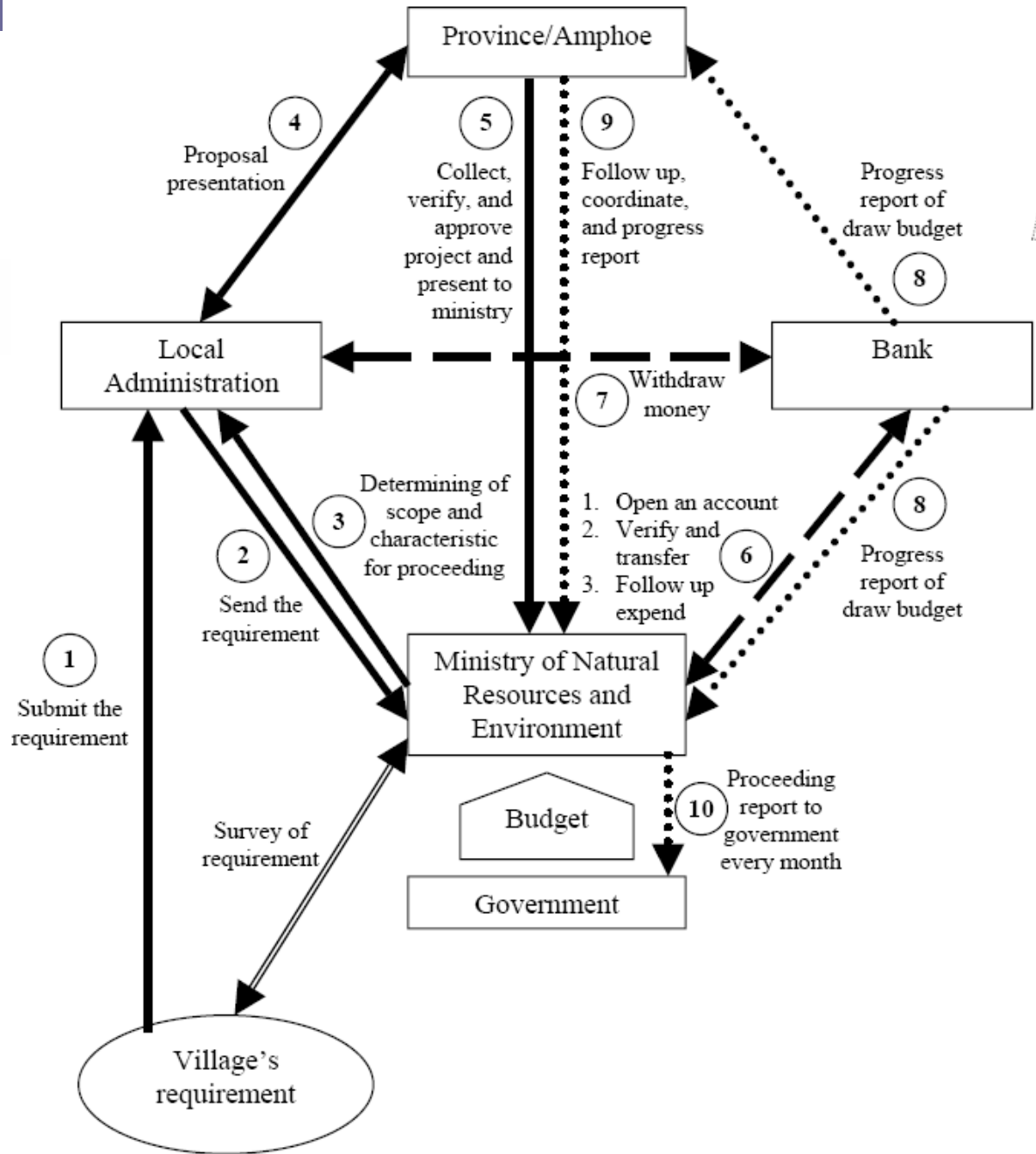
### Proceeding procedure



### Finance procedure



### Follow up procedure



# Water resources management activities and sources of financing

- Regular budget from the government
  - NESDB create
    - National Economic and Social Policy  
(as a guideline)
  - Water sector authorities create
    - 4 years organization's plan
    - Integrated water resources management plan
  - Bureau of budget provide their requested budget

# Water resources management activities and sources of financing (*Cont.*)

- Budget from international organizations
  - **SOURCES:** GWP, JICA, IAEA, ADB, World Bank, etc.
  - **SUPPORTS:** Technology transfer, researching & experts transfer, equipment support, training, giving information, and project's fund

# Conclusion

- National Economic and Social Policy (NESP) is a guideline for Integrated water resources management plan.
- Water sector authorities and National Water Resources Committee set the water resources management policy to comply with NESP.
- Because of good preparation, Thailand always has much support from the international organizations.



Thank you  
for your attention

**Somkid Buapeng**

Deputy Director General, Department of Groundwater Resources (Thailand)

GWP SC Member (Thailand)