





The 6th NARBO General Meeting - Thematic Workshop 4 -

View from International Development
Organization to promote IWRM

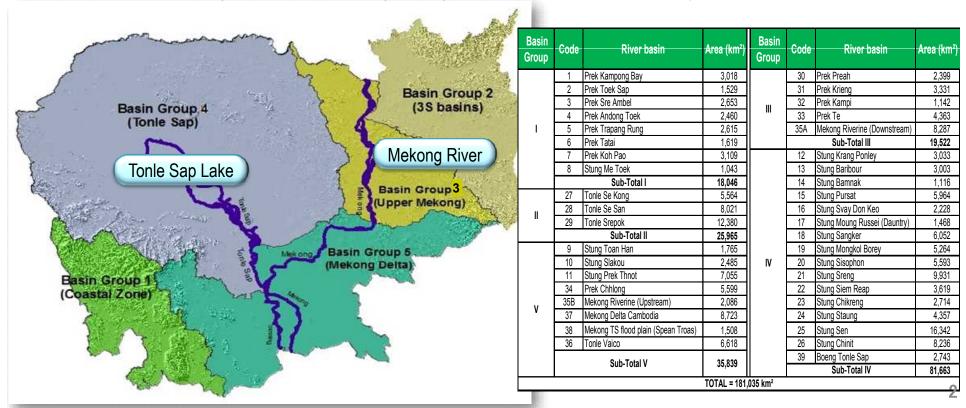


February 24, 2017

MOWRAM & JICA TCP in Cambodia

Water Resources & River Basins in Cambodia

- ◆ Cambodia is a country that has abundant of "Water Resources" (Average annual rainfall is more than 1,500 mm. There are the regional largest lake, "Tonle Sap Lake" and the regional longest international river, "Mekong River").
- ◆ About 85% of land is located in the Mekong Basin and only 15% outside Mekong Basin. There is about 75,000Mil. M3 of surface water and about 17,500Mil. M3 of groundwater. However, about 475,000Mil. M3 of water is discharged to the downstream across Cambodia every year.
- Continued development in agriculture sector remains an important state strategy to reduce poverty in rural communities, achieve food security, and foster equitable and sustainable social development. Therefore, enhancing water resources management to expand irrigated agriculture is one of the top priority works in Cambodia.

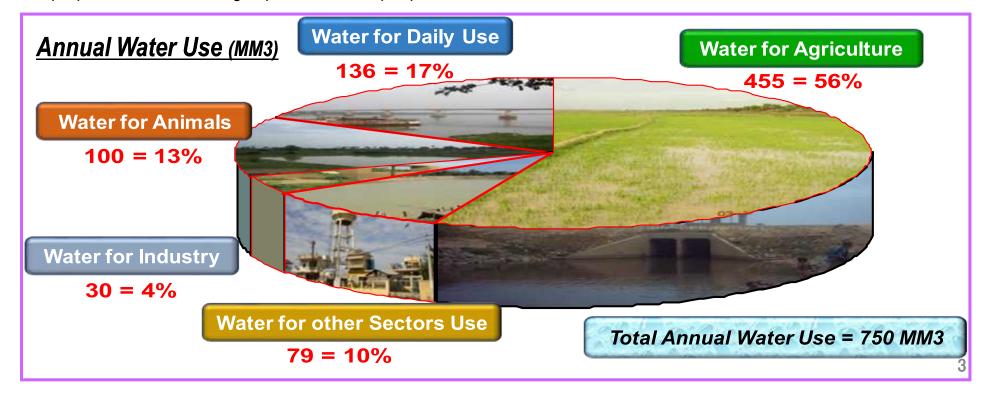


Current Water Resources Management

- MOWRAM (Ministry of Water Resources and Meteorology) is responsible for Development, Management, and Conservation of water resources (surface and ground water) in nationwide.
- Water resources are the property of the State. Water resources shall be developed and managed following an "Integrated Water Resources Management" approach.
- Everyone has the right to use water resources in an amount not exceeding the basic need for drinking, washing, bathing & other purposes, while avoiding impacts on other people.

Government Organizations related to Water Resources





Too Much Water in Wet Season (May - Oct.)



Too Little Water in Dry Season (Nov. - Apr.)









Increasing Competition for Water











River Basin Water Resource Utilization Project (1)

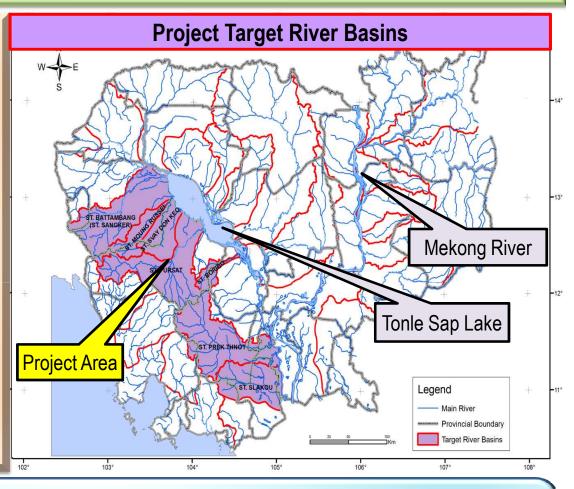


and

Japan International Cooperation Agency
(JICA)

In May 2014 ~ May 2019 (5 years)

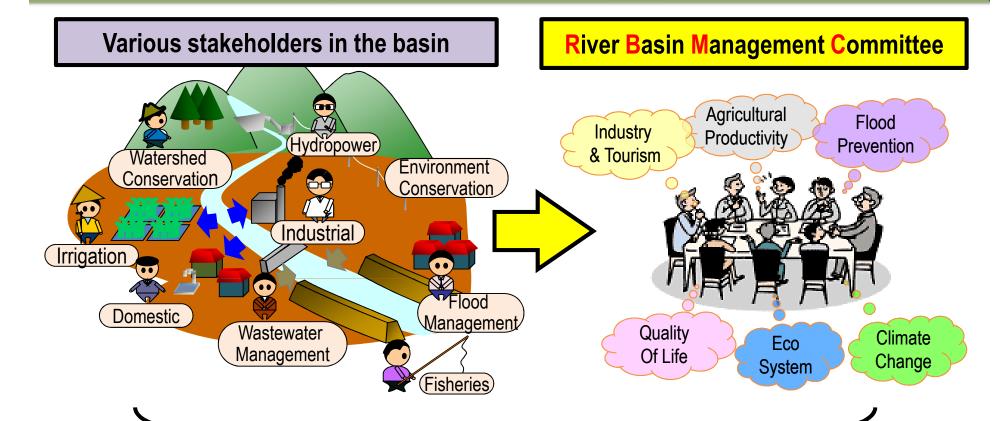
- Meteorological and Hydrological Data
- 2 River Basin Committee & Water User Groups
- 3 Runoff & Water Balance Analysis
- 4 River Basin Planning and Operation



The Project Goal

Management and coordination mechanism for water resources use is operated on a trial basis toward effective, equitable and sustainable water resources management in a river basin.

River Basin Water Resource Utilization Project (2)



All data and information on water resources!

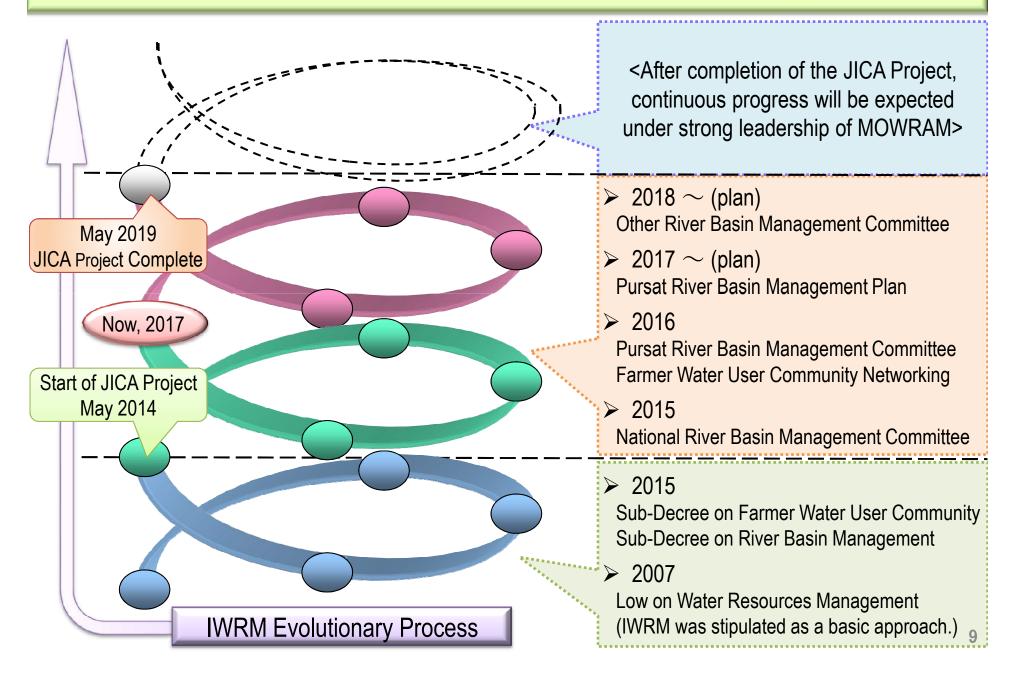
Amicable solution of water users' conflicts!

Toward effective, equitable & sustainable water resources management in the river basin

Proper coordination between water users!

Ecosystem protection & regional development!

Progress of IWRM in Cambodia



Obstacles to IWRM in Cambodia

Area	Personal Findings / Speculations
Legislation	Water law and sub-decree on river basin management are in force, but detailed regulations following them have not yet been issued.
Policy	"National River Basin Management Committee" has been established, however its actual activities for policy making are still under consideration
Institution	No specific institutional supports (incentive schemes / tools) are prepared to develop IWRM activities at national level and each river basin level.
Financial & technical support	Financial and technical supports to IWRM activities from the government are limited, mostly depending on the DP's assistance.
Infrastructure	Infrastructures related to water resources in rural areas are so primitive and no exact plans for improving them in the future can be set.
Information & data	Some important information and data related to water resources are absent, or not properly managed and compiled for analytical use.
Manpower	Resourceful leaders/staff including NGOs and academic experts in this area are scarce, so continuous capacity building efforts are necessary.
Awareness	"IWRM" does not become widespread, so continuous awareness raising efforts on its benefits for all stakeholders in river basins are necessary.

How to promote IWRM in Cambodia

3 Key Challenges	Possible Actions
(1) Active engagement and leading roles of MOWRAM / the government	 More leading role by MOWRAM, as a river basin administrator, in every aspect in collaboration with relevant ministries Policy making and institutional building by National RBMC to support each river basin development
(2) Technical & financial supports to RBM activity (more IWRM evolution)	 Incentive support to "river basin management" activities including systematic investment to relevant infrastructures Collection and provision of accurate and update data and information on water resources in each river basin for their consideration
(3) Various and continuous awareness raising efforts for relevant stakeholders	 Provision of training opportunity to stakeholders concerned to enhance their understanding and awareness Continuous collaboration with NARBO member organizations to share IWRM benefits

Desired follow-up activities by NARBO

3 Key Challenges Desired Follow-up Activities (Request to NARBO) ✓ To periodically contact the focal point of MOWRAM to follow up the Active engagement and subsequent progress and issues (if necessary, work together with leading roles of MOWRAM / JICA Cambodia Office). the government ✓ To periodically (if possible, annually) conduct a progress peer review between member organizations and share the result and collected (2)information with all member organizations. Technical & financial ✓ To invite key staff to field surveys in some selected river basins for supports to RBM activity technical exchange, and occasionally collaborate with DPs like JICA (more IWRM evolution) to conduct the group training course in member countries. ✓ To collect useful materials (educational video and leaflet related to) (3)water resources, good/bad IWRM practice, example of river basin Various and continuous plans and so on) from member organizations and function as a awareness raising efforts for <u>regional repository</u> of such information. relevant stakeholders