

Technology Fact Sheet

Integrated river basin management (IRBM)ⁱ

1) Technology description

- It is the interdisciplinary technology which integrates all other management and technical methods for sustainable development in a river basin.
- Currently, there are legal frameworks and research on IRBM. IRBM committees have been established. Some river basin environment protection committees have been active.

2) Socio-economic benefits

- Balancing social and economic benefits in a certain locality.
- Guaranteeing social benefits and equality.
- Avoiding conflicts on the access and use of water.
- Facilitating balanced, harmonious social and economic development plans.

3) Environmental benefits

- Is an optimal option to manage, develop and save water resources.
- Conserving biodiversity.
- Protecting the local environment, habitats and landscapes.

4) Status of technology

- Currently in Vietnam there were legal provisions and research on integrated management of river basins. It has been decided to establish a plan of management basin. A committee of environmental protection in river basins were formed and put into operation.

5) Application potential

High potential for application in river basins.

6) Contribution for adaptation

Facilitating the conservation and efficient use of the available water resources to cope with climate change.

7) Barriers

- Not enough data to develop a management plan; lack of a database on water resources and basin environment.
- No adequate IRBM and water resources management framework.
- Limited coordination between local communities and central authorities.
- Conflicts on the access and use of water.
- Lack of regulations and an appropriate modality for the river basins management committee; the decentralization process is still very slow.

- Lack of understanding of water shortage.

8) Costs

Implementation and technology application costs

- The cost of deployment and application of technology depends on cost databases, construction coordination model of river basin management, training, labor.

Incremental costs to adapt to climate change (compared to conventional technology)

- There is not enough information to evaluate.

ⁱ **This fact sheet has been extracted from TNA Report - Adaptation for Vietnam. You can access the complete report from the TNA project website <http://tech-action.org/>**