

Socialist Republic of Vietnam*c) Finalizing national strategy*

Based on the results of the technology action plan for each sub-sector, the national strategy and action plan to achieve the milestones for each period in runoff water harvesting are described in [Table 49](#).

Table 49 - National Strategy (technology transfer and development for adaptation)

	0-5 years	5-10 years	10-15 years
Small- and medium-scale, short-term technology			
Runoff water harvesting			
Establishing focal points	X		
Developing a network of technical experts	X		
Support policies to encourage local deployment of the technology	X		
Capacity building for water management, operation, protection and salinization	X	X	
Issuance of rules on household water use	X	X	
Public awareness raising	X	X	

3.4.2.2 Brief summary of project ideas for international support (Annex 3)

3.4.3 Integrated river basin management

3.4.3.1 Technology action plan for integrated river basin management (IRBM)

a) Aggregation and rationalization of measures identified for technology acceleration

Similar to the above section, the list of measures identified for formulation of a national strategy to accelerate the development and transfer of integrated river basin management can be seen in [Table 50](#).

Table 50 - Aggregation for strategy formulation

Strategic measure	Accelerating innovation RD&D	Accelerating deployment	Accelerating diffusion
Creation of networks			
Assigning focal points for IRBM	X		
Developing an expert network	X	X	X
Policies and measures			
Integration into planning and development program at river	X	X	
Organizational/behavioral change			
Change to basin-based management practices	X	X	X
Developing rules and regulations for coordination between organizations and localities	X	X	X

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Market support actions			
Investigating environmental and socio-economic conditions in target river basins	X	X	X
Introducing successful IRBM modals	X	X	
Skills training and education			
International cooperation/International consultant/Overseas staff training	XX	XXX	XXX

* Note: see Note under [Table 25](#)

b) Prioritization and characterization of technology acceleration measures for a national plan

Similar to sections above, the list of measures identified for the acceleration of technologies and the innovation stage structured under the core elements of a national strategy are identified and aggregated in [Table 51](#) below.

Table 51 - Prioritization and characterization of technology acceleration measures

Sector: Water resources management							
Specific Technology and category: Integrated River Basin Management/Large scale, medium- and short-term							
Innovation stage: Deployment – Diffusion							
Measure (grouped under core elements)	Priority	Why is it important?	Who should do it?	How should they do it?	Time-scale	Monitoring, reporting and verification for measure	Estimated costs (1,000 USD)
Creation of networks							
Assigning focal points for IRBM	1	Facilitates uniform basin-wide socio-economic management Ensures water efficiency Improves monitoring	MOHA MONRE MARD	Review functions of relevant organizations Establish a focal point Determine the role of the focal point	2 years	MOHA, MONRE MARD	14
Developing an expert network	1	Interdisciplinary experts are needed Ensures effective application of technology Provides technical support for focal agencies	MONRE MARD	Create a network of experts from related research and management institutes Conduct training courses on technology deployment	2 years	MONRE MARD	29
Policies and measure							
Integration into planning and development program at river	1	Facilitates technology deployment Serves sustainable development	MPI MONRE	Review planning and socio-economic development programs in river basins Develop mainstreaming plan	3 years	MPI MONRE	29

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			MARD	Integrate into programs and action plans of sectors and localities		MARD	
Organizational/behavioral change							
Change to basin-based management practices	1	Facilitates uniform basin-wide water management Helps to address limitations of administrative unit management of water resources	MONRE	Organize training courses on new management practices for managers	3 years	MONRE	29
Developing rules and regulations for coordination between organizations and localities	2	Helps to avoid conflicts in water use Facilitates technology application	MONRE MARD MOIT Local People's Committee	Consult with stakeholders Develop appropriate regulations Develop and implement rules	3 years	GoV, MONRE	29
Market support actions							
Investigating environmental and socio-economic conditions in target river basins	2	Develops a database to ensure feasibility and improve efficiency of technology	MONRE MARD	Identify and choose typical river basins for technology application Investigate and gather data on natural and socio-economic conditions of the chosen locations	3 years	MONRE	29
Introducing successful IRBM modals	2	Creates an environment for technology development and opportunities for cooperation between stakeholders	MONRE, media agencies	Introductory workshops on IRBM modals in the world Assess benefits of technology application in each basin	5 years	MONRE	48

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Skills training and education							
International cooperation/International consultant/Overseas staff training	2	Helps to take advantage international experience, develop human resources, accelerate technology transfer and diffusion	MONRE MOET VAST	Develop international cooperation projects Organize training courses with participation of international experts	5 years	MONRE	72

* Note: (1) See note under [Table 26](#)

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Based on the results of the technology action plan for each sub-sector, the national strategy and action plan to achieve the milestones for each period in IRBM are described in [Table 52](#)

Table 52 - National Strategy (technology transfer and development for adaptation)

	0-5 years	5-10 years	10-15 years
Large-scale, medium and short term technology			
River basin integrated management			
Assigning focal points for IRBM	X		
Developing an expert network	X		
Change to basin-based management practices	X		
Developing rules and regulations for coordination between organizations and localities		X	
Investigating environmental and socio-economic conditions in target river basins	X	X	
Introducing successful IRBM modals	X	X	
Introducing successful IRBM modals	X	X	
International cooperation/International consultant/Overseas staff training	X	X	

3.4.3.2 Brief summary of project ideas for international support (Annex 3)

3.5 Summary

The national technology action plan for water resources management will follow the following road map:

From now to 2025: Continue assessing potential for technology application as well as Vietnam's circumstances. Facilitate international cooperation in experience and knowledge sharing in management, especially between countries with the same level of development as Vietnam. Build human capacity development plans for operation of newly transferred technologies. Research how to apply water resources management technologies and pilot several technologies in certain areas to see how efficient it can be. Continue to develop and adapt the technology. Develop appropriate support policies and mechanisms for research of priority water resources management technologies. Develop guidelines on technical requirements and mandatory procedures for relevant projects.

Post-2025: Develop and deploy feasible priority technologies that are suitable to Vietnam's water resources management. Complete the application of modern, automated technologies in water resources management.