

Socialist Republic of Vietnam

4.3.1.2. To identify actions to improve policies and measures for development and transfer of technology

Measure 1: To develop policies to support local technology application;

Measure 2: To test, evaluate and verify policies.

4.3.1.3. To identify measures to strengthen the operation of institutions and institutional

Measure 1: To increase management capacity;

Measure 2: To promulgate rules and regulations of coordination among agencies;

4.3.1.4. To determine measures to promote support systems and other financial services

Measure 1: To survey hydrological, geology and geomorphology conditions in the selected area.

4.3.1.5. To identify measures to support education and training skills for the development and transfer of technology

Measure 1: To training technology experts as supplement.

4.3.1.6. To identify measures to facilitate possible international cooperation and agreements on intellectual property rights (IPR)

Measure 1: International cooperation in training and transfer of technology.

4.3.2 Identified measures for overcoming the technological barriers in order to recover coastal wetlands

4.3.2.1. To identify measures that support development and transfer of technology by creating network of experts

Measure 1: To build and develop a network of experts.

4.3.2.2. To identify actions to improve policies and measures for development and transfer of technology

Measure 1: To develop policies to support and encourage research, testing and application of technology.

4.3.2.3. To identify measures to strengthen the capacity of organizations and institutions

Measure 1: To increase management capacity;

Measure 2: To promulgate rules and regulations of coordination among agencies.

4.3.2.4. To identify measures to support education and training skills for the development and transfer of technology

Measure 1: International cooperation, additional training of technical experts.

4.3.3 Recommendations for technologies in the field of ICZM

It can be seen that in the short, medium and long term, the prioritized technologies of ICZM need constructing, upgrading and modernizing step by step at first. These are extremely urgent tasks which required details and sciences. Besides, the promotion of international cooperation should be further promoted to enhance the management capacity, as well as absorb the advanced technology in the world. It is necessary to have continuous investment in training high-quality human resources in order to ensure potential knowledge in the short, medium and long term. The research units and the experts are responsible for consulting the State about the formulation of policies and legal framework, which will support the development and application of advanced science and technology for effectively ICZM.

4.4 Action plans, project proposals and other issues in the field of ICZM

4.4.1 Sea-dike technology

4.4.1.1 Action Plan for sea-dike technology

Socialist Republic of Vietnam*a) Synthesis and rationalization the identified measures to promote technology*

The list of measures to promote the development and transfer of technology have been compiled as a national strategy and integrated into the overall [Table 55](#).

Table 55 - List of measures for building strategies

Strategic strategy	Innovation	Deployment	Demonstration
Establishment of networks			
Reviewing, restructuring and supporting the current network management	X	X	X
Building and developing network of experts	XX	X	X
Policies and measures			
Developing policies to support local technology application	X	X	X
Testing and evaluation policies	X	XX	XX
Change behavior / organization			
Strengthening management capacity	X	XX	XX
Promulgating rules and regulations of coordination among agencies	X	XX	XX
Actions to support market			
Surveying and hydrological, geology and geomorphology conditions in selected area	X	X	X
Skills training and education			
Additional training of technology experts	XX	XXX	XXX
International cooperation and intellectual property right			
International cooperation in training and transfer technology	X	XX	XX

* Note: The indicate symbols is similar to [Table 25](#).

b) Prioritization and characterization of the measures to promote technology

The review process in detail by is described in [Table 56](#) below.

Table 56 - Prioritization and characterization of the measures to promote technology

ICZM							
Specific technologies and categories: Sea-dike technology/Large scale, short and medium-term							
Stage innovation: Research - Deployment							
Measures (grouped by core elements)	Priority	Why is it important?	Who should do?	How?	Time-scale	Monitoring , reporting and verification measures	Estimated costs (1,000 USD)
The establishment of networks							
To Review, restructure and support the current network management	1	To rationalize and promote the effective role of the existing network.	MARD MOHA	-To review the functions and tasks, competency assessment, restructure in the direction of depth. -To strengthen the capacity of existing networks.	2 year	MARD MOHA	10
Building and development network of experts	2	Technical assistance, building capacity of management and applying technology.	MARD People Committee of provinces	-Creating a network of experts. -Provide management and technical training.	5 year	MARD	48
Policies and measures							
Develop policies to support local technology application	1	-Policies should be locally appropriate. - Expanding the scope of application of technology.	MOF, MARD	-To develop and promulgate policies to promote the technologies. -To establish fund to support.	2 year	MOF, MARD	10
Testing, evaluating and verifying policies.	3	Increase the effectiveness of policies, timely adjustments for real.	MARD	-To check out the reviews. -To organize the workshop on the effectiveness and limitations of the policies	5 year	MARD	24

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				issued. -To propose amendment.			
Change behavior / organization							
Strengthening management capacity	2	-The task-force to manage sea-dike is few. -The management level is still limited.	MARD	-To establish of additional coastal task-forces for sea-dike system. -To organize training management skills.	3 year	MARD	22
Promulgating rules and regulations of coordination among agencies	3	-To create consistency in management. -To facilitate the development of technology.	MARD	-To consult with stakeholders. -To develop appropriate regulations. -To promulgate and implement regulations	3 year	MARD	14
Actions to support market							
To survey and hydrological, geology and geomorphology conditions in selected areas	1	To create a full database and ensure the viability and improve the efficiency of applied technology.	MARD	-To identify and select potential areas to apply technologies. -To survey and collect hydrographic, geological, geomorphological conditions to apply technologies.	3 year	MARD	144
Skills training and education							
Supplement training of technical experts	3	-To ensure the process of technological innovation. -To create an important premise for the dissemination of technology	MARD MOET	-To evaluate the current capacity of expert. -To develop training programs. -To provide training.	5 year	MARD MOET	48
International cooperation and intellectual property							
International cooperation in training and technology transfer	1	Take advantage of international experience in human resource development, promoting technology transfer.	MARD	-To construct projects of international cooperation capacity building and technology transfer. -To train organizations with the participation of foreign experts.	5 year	MARD	72

* Notes: (1) The priority is similar to [Table 26](#)

Socialist Republic of Vietnam*c) Completion of the National Strategy*

The results of each priority technology for sub-domains obtained after the action plans were built will serve as a basis for the National Strategy and Action Plan on the sea-dike. Details are described in Table 57.

Table 57 - National Strategy (For the transformation and development of technologies aimed to adapt)

	0-5 year	5-10 year	10-15 year
Large-scale technology – medium and short-term			
Sea-dike technology			
Reviewing, restructuring and supporting the current management network	X		
Building and developing network of experts	X	X	
Developing policies to support local technology application	X		
Testing, evaluating and verifying policies	X	X	
Strengthening the management capacity	X	X	
Promulgating rules and regulations of coordination among agencies		X	
Surveying hydrological, geology and geomorphology conditions of the selected areas	X		
Additional training of technical experts	X	X	
International cooperation in training and technology transfer	X	X	

4.4.1.2 Brief summary of the project idea which has international support (Annex 3)

4.4.2 Recovery Technology of coastal wetlands

4.4.2.1 Action Plan on recovery technology for coastal wetlands

a) Synthesis and rationalization of identified measures to promote technology

The list of measures to promote the development and transfer of technology has been gathered to compile a national strategy and was integrated in Table 58.

Table 58 - Gather measures for building strategies

Strategic measures	Innovation	Deployment	Demonstration
Establishment of networks			
Building and developing a network of experts	X	XX	XX
Policies and measures			
Developing policies to support and encourage research, testing and application of technology	X	X	X
Change behavior / organization			