

Decision on
Promulgation of the Climate Change Adaptation Framework Action
Program for all bodies involved in agriculture and rural development in
the 2008-2020 period.

MINISTER OF AGRICULTURE AND RURAL DEVELOPMENT

Pursuant to Decree No.01/2008/ND-CP dated 3 January 2008 of the Government stipulating the functions, tasks, authorities and organizational structure of the Ministry of Agriculture and Rural Development (hereinafter abbreviated as MARD);

Pursuant to Statement No.40/TTr-VPBDKH dated 27 August 2008 of the Chief of Standing Office of the Steering Board of the Climate Change Adaptation Action Program approving the appropriate framework climate change adaptation action program of all bodies involved in agriculture and rural development for the 2008-2020 period;

At the proposal of the Head of Department of Sciences, Technology and Environment,

Decides:

Article 1. To promulgate as attachment to this Decision a Framework climate change adaptation Action Program of all bodies involved in agriculture and rural development for the 2008-2020 period.

Article 2. The Standing Office of the Steering Board of the climate change adaptation action program shall chair, coordinate with the Department of Science, Technology and Environment to help the Steering Board to oversee, instruct, inspect, push up and supervise the concerned agencies in implementing the contents of the Framework Action Program.

Article 3. This Decision comes into effect since the signing date.

Article 4. Head of the MARD Office, Head of Department of Sciences, Technology and Environment, Head of the Standing Office of the Climate Change Adaptation Framework Action Program Steering Board, directors of divisions and agencies under the Ministry, Directors of Department of Agriculture and Rural Development of provinces and centrally-run cities, General Directors of the companies under the MARD and Steering Board members shall be responsible for implementing this Decision.

CC:

Minister of Agriculture and Rural Development

- The Prime Minister, Deputy Prime Ministers (for reporting);
- Ministries, agencies under the Government;
- People's Committees of provinces;
- Leaders from the MARD;
- Agencies under the MARD;
- Trade unions of the agriculture and rural development sector;
- MARD website, Climate Change Office website;
- Members of the Steering board;
- Archived; Department of Sciences, Technology and Environment.

Cao Duc Phat

**Climate Change Adaptation Action Program Framework of the
Agriculture and Rural Development Sector for the 2008-2020 period**
*(Promulgated as attachment to Decision No.2730/QD-BNN-KHCN dated 5
September 2008 of Minister of Agriculture and Rural Development)*

I. GOAL

1.1. Overall goal

The common goal is to raise the capacity of the agriculture and rural development sector in mitigation and adapting to climate change in order to maximally reduce the level of damage and to ensure sustainable development in the field of agriculture and rural development in the context of climate change impacts, with focus laid on:

- To ensure stability and safety in cities, areas, and regions, especially the Mekong River Delta, the Red River Delta, the Central region and the mountainous areas;
- To maintain stable agricultural production and food security; to guarantee 3.8 million of hectares for cultivating two rice crops a year;
- To protect and make sure the dyke system, civil utility works, and technical and economic infrastructure meet the natural disasters mitigation and prevention requirements.

1.2. Specific goals

1.2.1. To work out a system of policies to be integrated into the action program of the Sector and specific tasks; to define the responsibilities of the concerned agencies, divisions, and industries, sources of capital, and the

mechanism of management of the Sector's climate change mitigation and adaptation program tasks;

1.2.2. To work out the plan of action and to propose policies to support the areas most vulnerable to adverse climate change impacts aimed at sustainable agricultural production.

1.2.3. To raise the Sector's capacity in the activities of research, forecasting of climate change impacts on agriculture, hydraulic work, forestry, salt production, aquaculture and rural development to make them the scientific foundations for the Sector to design climate change mitigation and adaptation policies, strategies and solutions.

1.2.4. To further strengthen international cooperation and collaboration with international and regional programs, to seek for international support in terms of transfer of experience and know-how in climate change mitigation and adaptation.

1.2.5. To develop the human resources in the service of the Sector's climate change mitigation and adaptation activities.

1.2.6. To raise the sense of awareness among officials, civil servants and State employees working in agriculture and rural development and in the community towards climate change mitigation and adaptation;

1.2.7. To make sure that all the rural community be able to equally benefit from the climate change mitigation and adaptation activities.

II. MAIN TASKS

2.1. Promotion of public awareness raising, education, and communication activities on climate change impacts and responsive mitigation and adaptation actions of the Sector

2.1.1. To disseminate and update information for State officials, civil servants and employees working in the agriculture and rural development Sector and the community and help them thoroughly grasp the policies and guiding lines of the Government and the Sector on climate change mitigation and adaptation activities;

2.1.2. To work out plans to circulate the commitments of the Government and the Sector to the international community on climate change mitigation and adaptation activities;

2.1.3. To build information systems and a website for the Climate Change Action Program Steering Board connecting the MARD, localities and companies with updated information, forecasts and answers to climate change issues and orientations for implementation of mitigation and adaptation solutions.

2.1.4. To organize meetings, workshops, training courses, and refresher courses providing officials, civil servants and employees from central to local level with information on climate change, climate change impacts and climate change mitigation and adaptation solutions.

2.2. Human resources training, promotion of research as scientific foundation for proposing climate change adaptation and mitigation solutions.

2.2.1. To use information technology in collecting, storing, and processing information; To build an information storing system and a database in

service of building and implementing of climate change mitigation and adaptation methods;

2.2.2. To design and kick off a research program on climate change impacts on agriculture and rural development and to find climate change mitigation and adaptation solutions;

2.2.3. To push up human resources training, awareness raising, and scientific researches, to work out climate changes mitigation and adaptation solutions;

2.3. To build a policy system to integrate climate change into the Sector's Climate Change Action Program

2.3.1. To work out a strategic climate change adaptation vision for the Sector;

2.3.3. To review and collate the system of legal documents, the Sector's policies, to recommend the amendment, supplementation and promulgation of new documents concerned with climate change mitigation and adaptation;

2.3.4. To work out a mechanism facilitating cooperation among ministries, Sectors, the central level and local level and the management mechanism for programs and projects in the climate change adaptation action program;

2.4. International cooperation in climate change mitigation and adaptation

2.4.1. To formulate and initiate projects and plans, to seek financial assistance from international community for the Sector's climate change mitigation and adaptation activities;

2.4.2. To strengthen cooperation and relationship with international and regional programs, exchange of information, and establishment of bilateral and multilateral partnership with the Sector in climate change activities;

2.4.4. To study and work out a mechanism for effective mobilization and use of financial assistance and to establish a fund for the implementation of the Sector's climate change adaptation program;

2.4.5. To strengthen coordination and integration between the Sector's action program and other environment action plans, programs and multilateral commitments.

2.5. Some key activities in Sector's climate change mitigation and adaptation

2.5.1. To increase capacity of the standing office of the Sector's climate change adaptation Steering Board;

2.5.2. To build TCVN standards, QCVN technical specifications in planning, designing and building of infrastructural systems for hydraulic engineering, agriculture, aquaculture, forestry, salt production and rural development adaptive to climate change;

2.5.3. To implement research programs and projects of building the infrastructural systems for agriculture and rising rural development, agricultural, forestry production, and salt making, and natural disasters prevention and mitigation programs more adaptive to climate change, especially to rising temperature and rising sea water, specifically:

a) Programs of research and planning to develop solutions promoting the security and stability of the people residing in the Mekong River Delta, Central Region, Red River Delta, and Northern Highlands, in the context of rising temperatures and sea levels;

b) Programs of research and planning to develop solutions securing 3.8 million ha of rice for two crops in order to safeguard national food security;

c) Programs of hydraulic research and planning for the Mekong River Delta in the context of rising temperatures and sea levels;

- d) Programs of research and planning for flood prevention and control in the Red River, Thai Binh River, the Mekong River Delta, rivers in Central Region from Thanh Hoa to Khanh Hoa, the southern part of Central Region and eastern part of the South and making them adaptive to climate change;
- e) Programs of research and planning for protection and establishment of protective forests on sea dykes;
- g) Programs of research and planning for development of the infrastructural system in salt fields and for natural disasters prevention and mitigation in the direction of making such system more adaptive to climate change, especially rising temperatures and sea levels;
- h) Programs of research and planning for food crop and industrial plant zones more adaptive to climate change;
- i) Programs of research and planning for aquaculture zones more adaptive to climate change.

III. ORGANIZATION OF IMPLEMENTATION

3.1. Main solutions

3.1.1. To seek advices from experts from different ministries, sectors, research institutes, career associations and international experts in working out an action program for the Sector to implement the program in most effective, qualitative and timely manners;

3.1.2. To devolve responsibilities among agencies under the MARD and among different localities in working out and implementing climate change mitigation and adaptation solutions;

3.1.3. To perfect the system of legal documents concerning integration of climate change issues into agricultural and rural development planning;

3.1.4. To seek international cooperation in the Sector's climate change mitigation and adaptation activities;

3.1.5. To give more attention to human resources training and training for specialists, especially leading scientific specialists, and managerial cadres with high qualifications in climate change mitigation and adaptation;

3.1.6. To guarantee financial resources from the State Budget for the implementation of the action program, in the meantime to mobilize ODA capital, capital from international cooperation programs, and other sources of capital from organizations and individuals from all economic sectors in Vietnam and abroad;

3.1.7. To push up inspection, checking, examination and periodic evaluation of the objectives, tasks, schedules, and results of implementation of the Sector's Action Program.

3.2. Organization of implementation

3.2.1. Heads of the bureaus, departments, agencies, institutes under Ministry of Agriculture and Rural Development, General Directors of Corporations, directors of companies and enterprises under Ministry of Agriculture and Rural Development; Director of Department of Agriculture and Rural Development in provinces and centrally-run cities shall within the framework of this action program and within their jurisdictions be responsible for supervising the planning and organization of implementation of the action program at their agency, for specifying the goals and tasks for the 2008-2020 period and annually; and on periodical basis, for reporting about the implementation of the framework action program to the MARD (Through its Standing office of the Program Steering Board) on the every 15th October;

3.2.2. To assign the Action Program Steering Board Standing Office the task of synthesizing all recommendations from agencies suggesting the structure

of annual capital source and capital needs, policies and mechanisms, and solutions towards implementing the tasks set in the framework action program to be submitted to the MARD for approval;

3.3.3. To assign the Department of Science, Technology and Environment basing on the tasks set in the framework action program approved by the MARD to coordinate with the Department of Planning and Finance to allocate the expenditure from the budget and other sources of capital for the starting of the implementation;

3.3.4. During the implementation of the framework action program, if they find it should needs amendments and supplements, the implementer agencies shall report to the Minister of Agriculture and Rural Development for consideration for decision;

3.3.5. To assign the Standing office of the Program Steering Board to cooperate with the Department of Science, Technology and Environment and agencies beneath it to supervise, examine and push up the implementation of the contents of the framework action program, monitor, and review the implementation of the agencies in the Sector through the Steering Board to report to the Minister before every October 30th.

Minister

(signed and sealed)
Cao Duc Phat

List of actions in the Climate Change Adaptation Framework Action Program of the Agriculture and Rural Development Sector

(Promulgated as attachment to Decision No. 2730/QĐ-BNN-KHCN dated 5 September 2008 of the Minister of Agriculture and Rural Development)

No.	Field of action	Specific activities	Implementing agencies	Products	Time framework
1	Disseminate information and knowledge, raise public awareness of the climate change impacts and of climate change mitigation and adaptation actions	1.1. Disseminate and propagate and make the policies, guidelines of the Government and the Sector thoroughly grasped by cadres, civil servants and employees working the Sector and the community about climate change mitigation and adaptation activities.	Chaired by: Standing Office In coordination with: Department of Science, Technology and Environment Department of legal system	Workshops imparting the policies and viewpoints of the Government and the Sector to cadres, officials, and employees working in the Sector and to the community	2008-2020 Source of funds: From MARD and the donors.
		1.2. Work out the plans to disseminate the commitments made by the Government and the Sector to the international community regarding climate change;	Chaired by: Standing Office In coordination with: Department of Science, Technology and Environment	Workshops disseminating the commitments by the Government and the Sector to the international community regarding climate change mitigation and adaptation activities	2008-2020 Source of funds: From MARD and the donors
		1.3. Establish an information system and a climate change website for the Steering Board from the ministry level to locality level and enterprise level in order to provide information, forecasts and answers to questions about climate change and the orientations for implementing climate change	Chaired by: Standing Office In coordination with: Department of Science, Technology and Environment and other bodies in the Sector	The website of the Action Program Steering Board	2008-2020 Source of funds: From MARD and donors.

		mitigation and adaptation solutions;			
		1.4. Organize conferences and seminars, training courses, and refresher courses on climate change, climate change impacts and mitigation and adaptation solutions for concerned cadres, officials working in the Sector from central to local level	Chaired by: Standing Office In coordination with: Department of Science, Technology and Environment and Department of Legal System.	Conferences and seminars, training courses, refresher courses on climate change, climate change impacts and mitigation and adaptation solutions for cadres, officials working in the Sector from central to local level	2008-2020 Source of funds: From MARD and donors.
2	Human resources training, boosting of researches as foundations for finding climate change mitigation and adaptation solutions.	2.1. Apply information technology in collection, storing and processing of information; build a database storing system for developing and implementing of climate change mitigation and adaptation measures;	Chaired by: Standing Office In coordination with: Department of Science, Technology and Environment and other concerned agencies.	Database on climate change forecasts, climate change projects and climate change mitigation and adaptation activities.	2008-2010 Source of funds: From MARD and donors.
		2.2. Develop and implement research program on climate change impacts on the agricultural and rural development Sector and find climate change mitigation and adaptation solutions;	Chaired by: Research institutes In coordination with: scientists, other agencies	Scientific grounds and climate change adaptation solutions	2009-2015 Source of funds: From MARD and donors.
		2.2.1. Study climate change impacts on agriculture in seven ecological zones, suggest solutions to adjusting agricultural production and rural development activities in a sustainable development path;	Chaired by: Agricultural institutes In coordination with: Scientists	Solutions to adjusting agricultural production and rural development activities in a sustainable development path;	2009-2015 Source of funds: From MARD and donors.
		2.2.2. Study the possible impacts of climate change on agricultural production and food security in	Chaired by: Agricultural research institutes	Forecast the impacts of climate change on agricultural production and food security in	2009-2015 Source of funds: From

		regions and areas;	In coordination with: Scientists	regions and areas	the Ministry and donors.
		2.2.3. Study to forecast the impacts of climate change on salt production and salt security in regions and areas	Chaired by: Department of Aquatic Resources Processing, Trading and Salt Production. In coordination with: Scientists	Forecast the impacts of climate change on salt production and salt security in the north, Central region and the south	2009-2015 Source of funds: From MARD and donors.
		2.2.4. To study the formulation of process of farming techniques, the use of fertilizers and the transformation of land for growing main crops in the areas under adverse impacts of climate change;	Chaired by: Agricultural Research Institute In coordination with: Scientists	Farming techniques, use of fertilizers and transformation of land for growing main crops in the areas under adverse impacts of climate change	2009-2015 Source of funds: From MARD and donors.
		2.2.5. To study to forecast the impacts of climate change on the working of irrigation, drainage, desalinization systems and river and sea dykes and to suggest solutions for planning the upgrading of the overall system;	Chaired by: Hydraulic Research Institutes In coordination with: Scientists	forecast the impacts of climate change on the working of irrigation, drainage, desalinization systems and river and sea dykes and to suggest solutions for planning the upgrading of the overall system	2009-2015 Source of funds: From MARD and donors.
		2.2.6. To study suitable solutions for hydraulic works suitable for current fluctuations on (quantity and quality of water) in the river basins under the climate change impact;	Chaired by: Hydraulic Research Institutes in coordination with: Scientists	methods for hydraulic works suitable for current fluctuations on (quantity and quality of water) in the river basins under the impact of climate change;	2009-2015 Source of funds: From MARD and donors.
		2.2.7. To study to forecast the impacts and suitable climate change adaptation measures to water balance in economic zones,	Chaired by: Hydraulic Research Institutes in coordination with: Scientists	forecast the impacts and suitable climate change adaptation measures to water balance in economic zones, to	2009-2015 Source of funds: From MARD and

		to define the zones more vulnerable to water tense in the future;		define the zones more vulnerable to water tense in the future;	donors.
		2.2.8. Make maps with markings of the zones easily prone to sweeping flood, river landslide, coastal landslide, storms, rising sea level , earthquake, tsunami, markings of inundated areas, evaluations of risks caused by floods and drought;	Chaired by: Hydraulic Research Institutes in coordination with: Scientists	Make maps with markings of the zones prone to sweeping flood, river landslide, coastal landslide, storms, sea water rising, earthquake, tsunami, markings of inundated areas, evaluations of risks caused by floods and drought	2009-2015 Source of funds: From MARD and donors.
		2.2.9. To study ways to forecast the impacts of climate change on biodiversity, forestry ecologies, water-logged lands and to propose appropriate solutions;	Chaired by: Forestry Research Institutes In coordination with: Scientists	forecast the impacts of climate change on biodiversity, forestry ecologies, water-logged lands and appropriate solutions;	2009-2015 Source of funds: From MARD and donors.
		2.2.10. To study the impacts of climate change on the aquacultural farming area, productivity, output, and aquatic resources, and propose measures for maintaining aquatic resources adaptability and protection measures;	Chaired by: Hydraulic Research Institutes In coordination with: Scientists	The impacts of climate change on the aquacultural farming area, productivity, output, and aquatic resources, and propose measures for maintaining aquatic resources adaptability and protection measures	2009-2015 Source of funds: From MARD and donors.
		2.2.11. To study climate change impacts on animal husbandry and diseases prevention and to propose corresponding solutions;	Chaired by: Animal Husbandry Research Institutes in coordination with: Scientists	Climate change impacts on animal husbandry, diseases prevention and to propose corresponding solutions;	2009-2015 Source of funds: From MARD and donors.
		2.2.12. To study climate change impacts on population distribution, development of safe water supply infrastructure and rural hygienic system and to propose suitable	Chaired by: Agricultural and Rural Development Research Institutes in coordination with:	climate change impacts on population distribution, development of safe water supply infrastructure and rural hygienic system and to propose	2009-2015 Source of funds: From MARD and donors.

		solutions;	Scientists	relevant solutions;	
		2.2.13. To work out program of new plant species selecting and experimenting suitable for areas adversely prone to climate change;	Chaired by: Agricultural and Forestry Research Institutes in coordination with: Scientists		2009-2015 Source of funds: From MARD and donors.
		2.2.14. To study climate change impacts on sea ecology, aquatic biodiversity and sea reserve and inland bodies of water;	Chaired by: Department of Aquatic Resources Exploitation and Protection In coordination with: Scientists	climate change impacts on the sea ecology, aqua biodiversity and sea reserve and inland bodies of water;	2009-2015 Source of funds: From MARD and donors.
		2.3. To focus on human resources training, public awareness raising, scientific researches and to propose climate change mitigation and adaptability solutions;	Chaired by: Personnel Organization Division In coordination with: Department of Science and Technology and Environment and Standing Office of research institutes	The human resources that meet the Sector's requirements of climate change mitigation and adaptation	2009-2015 Source of funds: From MARD and donors.
3	To develop system of policies to integrate climate change into the Sector's program of action	3.1. To conjure up a suitable strategic vision for climate change adaptation;	Chaired by: The Standing Office In coordination with: Department of Sciences, Technology and Environment and other agencies under the Ministry of Sciences, Technology and Environment	Suitable strategic vision for climate change adaptation;	2009-2015 Source of funds: From MARD and donors.
		3.2. To work out mechanisms and policies to integrate climate change	Chaired by: Department of	mechanisms and policies to integrate climate change in the	2009-2015 Source of

		into development plans and programs;	Planning In coordination with: other Agencies under MARD	plan and programs for development;	funds: From MARD and donors.
		3.3. To review, collate the system of legal documents with the Sector's policies, to recommend revision and supplementation and promulgation of lacking documents on climate change mitigation and adaptation;	Chaired by: Department of Justice In coordination with: Agencies under MARD	Recommend the review, amendment, supplementation and promulgation of lacking documents on climate change adaptation	2009-2015 Source of funds: From MARD and donors.
		3.4. To work out a mechanism where ministries, Sectors, central agencies and local agencies will coordinate and a mechanism for management of projects and programs as part of the climate change adaptation action program of the Sector;	Chaired by: Climate Change Office, Department of Sciences, Technology and Environment In coordination with: Agencies under MARD	Mechanism of cooperation between different ministries, Sectors, the central and local government, and mechanism of management of projects and programs in the implementation of the Sector's climate change adaptation action program	2009-2015 Source of funds: From MARD and donors.
		3.5. To set out policies to support the regions frequently prone to natural disasters and the natural disaster risk insurance policy;	Chaired by: Department of Land Management and Flood Prevention and Control In coordination with: Agencies under MARD	- Policies to support the zone frequently prone to natural disasters - Natural disaster risk insurance policy	2009-2015 Source of funds: From MARD and donors.
		3.6. To set up policies for management and preservation of first generation plants, orchards of first generation industrial plants and perennial fruit trees in the conditions of climate change;	Chaired by: Department of Cultivation In coordination with: Scientists	Policies for management and preservation of first generation plants, orchards of first generation industrial plants and perennial fruit trees in the conditions of climate change;	2009-2015 Source of funds: From MARD and donors.

		3.7 Set out policies to support the transformation of plant structures in the context of climate change in agro-ecological areas;	Chaired by: Department of Cultivation In coordination with: Scientists	Policies to support the transformation of plant structures in the conditions of climate change in the agricultural ecological areas;	2009-2015 Source of funds: From MARD and donors.
		3.8. To set out the mechanisms and policies for management, protection, development and sustainable use of forest resources and forestry land;	Chaired by: Department of Forestry In coordination with: Agencies under MARD	To set out the mechanisms and policies for management, protection, development and sustainable use of 16.24 million ha of land planned for forestry use, raising the forested land ratio to 42-43% by 2010 and 47% by 2020	2010-2020 Source of funds: From MARD and donors.
		3.9. To set up a self-financed fund for prevention, control and mitigation of natural disasters.	Chaired by: Department of Land Management and Flood Prevention and Control In coordination with: Agencies under MARD	Self-financed fund for prevention, control and mitigation of natural disasters.	2010-2015 Source of funds: From MARD and donors
		3.10. To devise mechanisms and policies for management and development of sustainable production of salt against climate change conditions.	Chaired by: Department of Processing, TMNLTS and Salt making. In coordination with: Agencies under MARD.	Mechanisms and policies for management and development of sustainable production of salt	2010-2020 Source of funds: From MARD and donors
4	International cooperation	4.1. To write and propose projects and programs, to seek financial assistance from the international	Chaired by: The Standing Office In coordination with:	Sector's projects and programs for climate change mitigation and adaptation activities;	2008-2020 Source of funds: From

		community for climate change mitigation and adaptation activities;	Agencies under MARD.		MARD and donors
		4.2. To strengthen cooperation and exchange with international and regional programs, exchange of information, establishment of bilateral and multilateral partnership network about climate change related to the Sector;	Chaired by: Department of International Relations In coordination with: The Standing Office	Cooperation and connection with international and regional programs, exchange of information, establishment of bilateral and multilateral partnership network about climate change related to the Sector	2008-2020 Source of funds: From MARD and donors
		4.3. To organize such activities as human resources training, exchange of know-how and technology on climate change mitigation and adaptation;	Chaired by: Department of Personnel Organization, The Standing Office In coordination with: Agencies under MARD	human resources training, exchange of know-how and technology on climate change mitigation and adaptation	2008-2020 Source of funds: From MARD and donors
		4.4. To study the building of the mechanism for effective mobilizing and using of aids and to raise a fund for implementing the Sector's climate change adaptation program.	Chaired by: Department of Finance In coordination with: The Standing Office and the agencies under the Ministries	mechanism for effectively mobilizing and using aids and to raise a fund for implementing the Sector's climate change adaptation program	2009-2012 Source of funds: From MARD and donors
		4.5. To strengthen cooperation and integration between the Sector's program into action programs and projects for implementing multilateral environment commitments.	Chaired by: The Standing Office, Department of Forestry, Forest Management In coordination with: Agencies under MARD	Contents of action programs and plans to prevent desertization, CITES, etc. to be integrated into the climate change activities.	2009-2012 Source of funds: From MARD and donors

5	Some key climate change mitigation and adaptation activities of the Sector	5.1 To strengthen the Standing Office of the Climate Change Adaptation Steering Board.	Chaired by: Department of Personnel Organization, the Standing Office In coordination with: Department of Sciences, Technology and Environment	The Standing Office shall be mobilized when needed	2008-2010 Source of funds: From MARD and donors
		5.2. To establish Vietnamese standards (TCVN) and Vietnamese technical standards (QCVN) in planning, design, and building of infrastructural systems, and projects to make agriculture and rural development more adaptive to climate change;	Chaired by: Department of Sciences, Technology and Environment In coordination with: Departments and agencies under MARD	Vietnamese standards and technical standards in planning, design, and building of infrastructural systems, and the specialties in agriculture and rural development suitable to climate change;	2009-2020 Source of funds: From MARD and donors
		5.3. To implement research projects and planning projects			
		5.3.1. Programs of research and planning for seeking solutions to ensure the people in the Mekong River Delta, the Red River Delta, the Central region and the northern mountainous areas to live in stability and safety in the context of rising sea level and climate change;	Chaired by: Department of Land Management and Flood prevention and Control, Department of Planning In coordination with: Department of Sciences, Technology and Environment, The Standing Office, agencies under MARD	planning programs to seek solutions to ensure the people in the Mekong River Delta, the Red River Delta, the Central region and the northern mountainous areas to live in stability and safety against the context of rising sea level and climate change;	2009-2012 Source of funds: From MARD and donors
		5.3.2. Programs of research and planning for seeking solutions to	Chaired by: Department of	Adjust solutions planning to ensure 3.8 million ha of rice for	2010-2012 Source of

		ensure 3.8 million ha of rice for two crops in order to guarantee national food security;	Cultivation In coordination with: Agencies under MARD	two crops in order to safeguard national food security;	funds: From MARD and donors
		5.3.3. Program of research and planning for hydraulic systems in the Mekong River Delta in rising sea level and climate change conditions.	Chaired by: Department of Hydraulic Work In coordination with: Agencies under MARD	Adjust planning of hydraulic systems in the Mekong River Delta in rising sea water and climate change conditions.	2009-2012 Source of funds: From MARD and donors
		5.3.4. Program of research and planning for prevention and control of flood in the Red River, Thai Binh River, the Mekong River Delta, the rivers in the central region from Thanh Hoa to Khanh Hoa, the southern part of the central region and eastern part of the South to make them adaptive to climate change;	Chaired by: Department of Land management and Flood Prevention and Control In coordination with: Agencies under MARD	planning for prevention and control of flood in the Red River, Thai Binh River, the Mekong River Delta, the rivers in the central region from Thanh Hoa to Khanh Hoa, the southern part of the central region and eastern part of the South to make them adaptive to climate change	2010-2020 Source of funds: From MARD and donors
		5.3.5. Program of research and planning for use of land in service of prevention and control of natural disasters, and for making food crop and industrial plants production areas adaptive to climate change;	Chaired by: Department of Cultivation In coordination with: Agencies under MARD	Adjust planning of use of land in service of prevention and control of natural disasters, food crop and industrial plants production areas adaptive to climate change	2010-2020 Source of funds: From MARD and donors
		5.3.6. Program of research and planning of aquaculture and aquatic farming zones adaptive to climate change;	Chaired by: Department of Aquaculture In coordination with: Agencies under MARD	Adjust planning of aquaculture and aquatic farming zones adaptive to climate change	2010-2020 Source of funds: From MARD and donors

		5.3.7. Program of research and planning for protection and development of sea dyke protection forests;	Chaired by: Department of Forestry In coordination with: Agencies under MARD	Planning for protection and development of coastal and coastal dyke protection forests;	2010-2020 Source of funds: From MARD and donors
		5.3.8. Program of research and planning for construction in the zones frequently prone to natural disasters;	Chaired by: Department of Capital Construction Management In coordination with: Agencies under MARD	Planning for construction in the zones frequently prone to natural disasters	2010-2020 Source of funds: From MARD and donors
		5.3.9. Program of research and planning for management and comprehensive exploitation in river basins;	Chaired by: Department of Hydraulic Works In coordination with: Agencies under MARD	Planning for management and comprehensive exploitation in river basins	2010-2020 Source of funds: From MARD and donors
		5.3.10. Program of research and planning of salt making areas, infrastructure for salt fields in the direction of more suitability to climate change, with special focus on rising temperatures and sea levels.	Chaired by: Department of Processing, Aquatic Resources Trading and Salt Production. In coordination with: Agencies under MARD	Planning of salt making areas, infrastructure for salt fields in the direction of more suitability to climate change	2010-2020 Source of funds: From MARD and donors
		5.4. Program of planting vegetation along sea dykes to break the waves ;	Chaired by: Department: Department of Forestry, Department of Land Management and Flood Prevention and Control	Program of planting vegetation along sea dykes to break the waves;	2010-2020 Source of funds: From MARD and donors

			In coordination with: Agencies under MARD		
		5.5. Program of consolidating hydraulic system, dyke system and flood prevention and control systems;	Chaired by: Department of Land Management and Flood Prevention and Control In coordination with: Agencies under MARD	Program of consolidating hydraulic system, dyke system and flood prevention and control systems;	2008-2020 Source of funds: From MARD and donors
		5.6. Program of consolidating rural infrastructure;	Chaired by: Department of Planning In coordination with: Agencies under MARD	Consolidating rural infrastructure	2010-2020 Source of funds: From MARD and donors
		5.7. To establish organizations for support of management of natural disasters;	Chaired by: Department of Land Management and Flood Prevention and Control In coordination with: Agencies under MARD	Organizations for support of management of natural disasters	2010-2015 Source of funds: From MARD and donors

