

1. PROTECTION AND SUSTAINABLE MANAGEMENT OF WATER RESOURCES

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
1. Reinforcing integrated management of water resources	Implementing program dealing with water sector structural fit (PASE)	Water 01	<ul style="list-style-type: none"> • Integrated management of water resources at the level of hydrographic basins to be implemented by basin agencies • Putting into effect tariff regulation introduced by PASE • Reassigning investment budgets • Reforming the management of water indented for agriculture • Resorting to public-private sector partnership and dealing with all concerned townships • Implementing PAS instructions related to controlling the impacts of liquid waste on environment, and preserving water quality and drainage policy 	Reinforcing institutional capacities	Ministry of Equipment	PASE
2. Improving the management of underground water resources	the artificial refill of water tables	Water 02	<ul style="list-style-type: none"> • Make an inventory of the present sites refill and find out the reasons behind disfunctionning • Launch new refill sites • Reinforce management capacities and monitoring of refill sites 	Realization	Ministry of Equipment	7
	Updating state of knowledge concerning underground water in Morocco	Water 03	<ul style="list-style-type: none"> • Start general studies by basin in order to update inventories and improve state of knowledge • Reinforce prospecting actions of aquifer systems not well known and extend exploitation possibilities 	Improving state of knowledge	Ministry of Equipment	4
	Reinforcing optimization of networks for supervising continental water quality	Water 04	<ul style="list-style-type: none"> • Set up a national network for integrated supervision of water quality • Harmonize and standardize follow up and supervision procedures for water pollution • Establish a list of indicators for continental waters pollution • Create a manual defining indicators and procedures for their assessment • Prepare a national report on water quality 	Follow-up, supervision and observation	DGH Basins Agencies	1,5
3. Controlling demand for water	Making managers in tourism and residential centers aware of using water in a rational way in these centers.	Water 05	<ul style="list-style-type: none"> • Prepare posters and booklets having water as theme • Organize days for awarening managers of tourist and residential establishments on the necessity to call specialized technicians in sanitary networks and use saving water • Organize campaigns for awarening people on the occasion of events organized by the sector • Take into account the saving water component among criterias for hotels classification • Integrate a saving water module in the training program for hotel schools and institutes 	Awareness, information and communication	Department of Environment & Ministry of Tourism	1,5
	Rationalizing irrigation water at the level of transport and production unit in irrigated areas	Water 06	<ul style="list-style-type: none"> • Prepare a diagnosis study on performances and efficiency of irrigation systems taking into consideration the old equipment used and systems of irrigation • Identify and try some performing irrigation systems in important zones • Set up equipment to measure flow of water in irrigation networks • Get technicians and users trained on new irrigation techniques 	Environmental management	Ministry of Agriculture & Ministry of Equipment	4

	Promoting the kind of agriculture which does not need too much water	Water 07	<ul style="list-style-type: none"> • Set up measures inciting farmers to adopt agriculture which does not need too much water. • Reinforce research programs on improving the existing kind of agriculture Not needing too much water and introducing new ones 	Realization	Ministry of Agriculture	2,5
	Improving outputs of networks distributing drinking water	Water 08	<ul style="list-style-type: none"> • Diagnosis of the state of existing networks for drinking water distribution • Set up a permanent system for detecting leaks and for network maintenance • Assure that services are on duty for intervention at the network level • Use the GTC system (Centralized technical management) • Set up a maintenance program for the network in charge of drinking water distribution 	Realization Private centers	ONEP	25
	Making the citizen aware of a rational use of water	Water 09	<ul style="list-style-type: none"> • Set up programs for growing public awareness specific to following sectors : craft industry, service stations, SME and SMI • Include growing awareness about water saving in programs of non formal education and literacy • Lead campaigns for increasing public awareness directly with farmers and through the medias • Carry out growing awareness programs through school programs 	Growing public awareness, information and communication	Department of Environment ONEP	3,5
4. struggle against all forms of water pollution and protection of the consumer's health against diseases related to water (complementary PASE measures)	Setting up dumping standards as regard to water	Water 10	<ul style="list-style-type: none"> • Elaborate standards fixing limited quantity of pollutants accepted in dumping, in agreement with departments and concerned parties • Create a legal mechanism for the application of these standards • Set up measures for follow up and control of conformity to these standards 	Legislation & standardization	D. Environment M. Equipment	4
	Report on impact of mining exploitations on the quality of water and implementation of actions having priority	Water 11	<ul style="list-style-type: none"> • Identify zones concerned by mining activity and evaluate attacks degree • Identify fundamental elements to elaborate programs for cleaning up mines waste, whether of those still in activity or having already stopped working 	Improving state of knowledge	DGH Department of Energy and Mines	0,5
	Struggle against diseases related to water in rural areas	Water 12	<ul style="list-style-type: none"> • Implement a growing public awareness program for rural population on hydrous diseases • Identify and disseminate appropriate techniques and practices for processing water to be consumed • Reinforce Health Ministry's means to struggle against diseases related to water (prevention, struggle against transmitted diseases, struggle against vectors) • Implement a program for basic drainage • Implement a diet program 	Growing public awareness, information & communication	Ministry of Public Health & Department of Environment	Growing public awareness section 6M section: Drainage see SDNAL

	Managing stocks of obsolete herbicides and fertilizers	Water 13	<ul style="list-style-type: none"> Evaluate the present situation of obsolete herbicides and fertilizers stocks (quantity, quality, storing areas, etc) Set up methods for their elimination in an ecologically rational manner 	Environmental management	M. Interior M. Agriculture D. Environment	10
	Controlling impact of agriculture-related pollution on water and soil resources and struggle against soil salinity	Water 14	<p><i>Pesticides:</i></p> <ul style="list-style-type: none"> Realize an inquiry on practices and pesticides use (according to the kind of agriculture, region, quantity, etc) Realize an inquiry on pesticides residues Realize a study of the impact on physical environment (water, soil) and on users and consumers health Evaluate supervision and level of supervisors training Set up instructions for an optimal use and elaborate manuals for good practice <p><i>Fertilization:</i></p> <ul style="list-style-type: none"> Make an inquiry on present practices concerning soils fertilization Make studies of impact on environment Elaborate an action program for popularization purposes and elaborate manuals for good practice 	Follow-up, supervision and observation	D. Agriculture M. Equipment	4
5. Improving conditions of access to water	Activate PAGER implementation	Water 15	<ul style="list-style-type: none"> Improve serving rate in rural areas 	Realization	M. Equipment ONEP	(PAGER)
6. Use of non conventional waters	Collecting rainwaters	Water 16	<ul style="list-style-type: none"> Update studies on potential sites and adapted collecting techniques Promote the setting up of hydro-agricultural equipment encouraging to collect rainwater and reinforcing infiltration 	Realization	M. Equipment	5
	Re-using recycled worn-out water	Water 17	<ul style="list-style-type: none"> Update and exploit realized studies and experimentations in Morocco concerning purification and re-using worn-out waters Identify more adapted purification ways according to different contexts faced in Morocco (size of centers, climate, kind of worn-out water) Identify and set up appropriate financial and institutional arrangements for the realization of projects for re-using worn-out waters 	Environmental management	M. Interior D. Environment	4
	Brackish water valorization	Water 18	<ul style="list-style-type: none"> Update information related to brackish waters Make necessary studies to identify processing ways and possibilities of using brackish waters Realize important projects 	Improving state of knowledge	D. Equipment D. Environment M. Agriculture	20

2- PROTECTION AND SUSTAINABLE MANAGEMENT OF SOIL RESOURCES

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
1. Struggle against soil hydrous and wind erosion and improving productivity	Preserving soils of important pouring basins	Soil 01	<ul style="list-style-type: none"> Promote forest and village programs Intensify reforestation programs Increase farmers awareness about agricultural and forest practices preserving soil Implement integrated program for developing attached zones 	Realization and Forests	D. of Water	P.M National plan for developing pouring basins
	Promoting techniques and practices in agriculture, particularly convenient to threatened soils, and restoring deteriorated soils	Soil 02	<ul style="list-style-type: none"> Identify important zones Elaborate an intervention plan integrating populations concerned by these zones Implement a series of leading actions 	Realization	D. Agriculture	30
2. Improving soils management	Developing a national program for soils inventory and cartography (PNICS)	Soil 03	<ul style="list-style-type: none"> Set up an approach for making an inventory of homogeneous and adapted soils, mainly while dealing with cartographic scale, taking into account local specificities Identify soil classes according to categories and vulnerability degree to environment 	Improving state of knowledge	D. Agriculture D. Environment CRTS	30
	Developing a geographical information system (SIG) on vulnerability of soils to desertification phenomena	Soil 04	<ul style="list-style-type: none"> Endnow each region with a helping tool for taking decision and following-up soils vulnerability problems , Set up a system to follow up the spatio-temporal situation of desertification phenomenon Set up a system to follow up soils evolution 	Improving state of knowledge	D. Environment D. Agriculture	10
	Soils conservatory management in pluvial zones, with fragile ecosystems	Soil 05	<ul style="list-style-type: none"> Identify, define, and adopt systems and practices for agriculture and conservatory development Quantify and implement improving systems and techniques concerning fragile zones, previously delimited Carry out a leading project in a representative region 	Environmental management	D. Environment D. Agriculture	20
	Setting up an observatory for drought and desertification	Soil 06	<ul style="list-style-type: none"> Elaborate a specifications document for the observatory Identify institutional partners and set the observatory organization chart Take measures for getting financial means necessary to set up the observatory 	Follow up, supervision and observation	D. Agriculture	20
	Creating a structure dedicated to soils management	Soil 07	<ul style="list-style-type: none"> Prepare opportunity and feasibility study Prepare a descriptive of assignments and necessary means to create the structure Prepare the structure organization chart 	Reinforcing institutional capacities	D. Agriculture	-

	Adopting a legislation on the use of soils	Soil 08	<ul style="list-style-type: none"> • Make a study to update all the texts related to soil management • Identify insufficiencies and deficiencies • Promulgate new texts 	Legislation and standardization	M. Agriculture	1
3. Reducing impact of quarrying and mining activities on environment	Set up instructions regarding rational quarries exploitation	Soil 09	<ul style="list-style-type: none"> • Prepare a study on the actual state of environment deterioration related to quarries exploitation • Prepare a study on quarries exploitation sites in order to elaborate a specifications document for a respectful exploitation of environment • Prepare a directory for quarries exploitation 	Legislation and standardization	M. Equipment M. Interior D. Environment M. Equipment	1,5
	Quarries Management and rehabilitation	Soil 10	<ul style="list-style-type: none"> • Encourage the use of modern methods for quarries exploitation in order to avoid pronounced environment deterioration • Rehabilitate quarries after exploitation (reforestation, developing excavations, eliminate unprofitable dumps) 	Realization	D. Commerce & Industry M. Interior M. Equipment	40
	Mining sites rehabilitation	Soil 11	<ul style="list-style-type: none"> • Concerned sites are those of Jerada, Guenfoudas, Touissits, Sidi Boubker and Wadi El Haimer • Make a study on mines impact on environment • Set up an action program for sites rehabilitation • Implement leading operations for mining sites rehabilitation 	Realization	D. Energy and Mines D. Commerce and Industry	60
4. Conserving patrimony	Program to safeguard geological patrimony (fossils markers)	Soil 12	<ul style="list-style-type: none"> • Make an inventory of sites and geological markers cartography • Lead campaigns to increase public awareness, especially concerning targeted professionals (mountain guides, people exploiting mines and quarries) • Promulgate specific laws to safeguard and protect geological patrimony • Create a national geological markers collection (museum) 	Increasing public awareness, information and communication	D. Geology D. Environment	3,5

3- AIR PROTECTION

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
1- Reducing polluting atmospheric emissions	Implementing a program for prevention and struggle against pollution due to road traffic	Air 01	<ul style="list-style-type: none"> • Speed up putting into effect of the decree dated January 28th, 1998, determining the rate of cars exhaust fumes • Prepare terms of reference for urban traffic studies • Initiate, in collaboration with townships, studies for setting up plans for urban traffic • Promote a quality public transport • Impose, through regulation means, the use of catalytic converter for old cars • Launch a reflection on creating a fund for old cars renewal • Realize periodic studies on road traffic (park structure, mileage of covered distance, evolution of cars age, degree of pollution resulting from transport sector, real consumption of fuel, ...) • Implement an energizing urban planning taking into account the need to have a rational management of energy in town and to preserve environment • Promote the use of other transport means in big cities such as trams and subways • Set up green belts in some axes of the big cities • Achieve a study on opportunity, feasibility and especially possibility for Morocco to integrate GALILEO system, in elaboration process by the European committee, which will allow on term, to optimize urban traffic 	Environmental management	D. Environment D. Transports D. Energy & Mines	20
	Elaborating and implementing a program for struggle against pollution due to Energy sector	Air 02	<ul style="list-style-type: none"> • Elaborate and implement plans according to sectors dealing with limiting atmospheric emissions from thermal powers and oil refineries • Promulgate a text for gradually improving the quality of fuels available on the market, namely by reducing lead from petrol used for cars • Promote the development of natural gas and advances technologies for electricity production, such as combined cycle, as well cogeneration 	Planning	D. Energy & Mines	8
	Applying law concerning struggle against atmospheric pollution and standards for atmospheric dumping	Air 03	<ul style="list-style-type: none"> • Speed up promulgation of a bill and a decree regarding struggle against atmospheric pollution • Elaborate application decrees fixing the limits of dumping for each industrial sector 	Legislation and standardization	D. Environment	-

2-Optimizing energy consumption and developing renewable energies and clean technologies	Promoting use of alternative fuels in urban transport	Air 4	<ul style="list-style-type: none"> • Prepare a study to identify opportunities for using alternative fuels in urban transport • Conceive and implement legal, statutory, fiscal and economic inciting tools able to encourage the use of alternative fuel 	Realization	D. Transport D. Energy and Mines	2
	National contribution to implementation of Montreal Protocol regarding substances impoverishing the ozone layer	Air 5	<ul style="list-style-type: none"> • Update and implement national program on redeployment and elimination of substances that impoverish the ozone layer (CFC and others) • Set up a specialized structure, trained in the field as a national office for ozone, which will take care, in cooperation with all concerned parties, of following-up application of Montreal Protocol 	Reinforcing institutional capacities	D. Environnement D. Commerce & Industry	2
	Setting up a network for supervising air quality in big centers	Air 6	<ul style="list-style-type: none"> • Identify sensitive zones as regard to atmospheric pollution • Elaborate and negotiate institutional and technico-financial arrangements for setting up an network in big centers • Elaborate and put into effect a system for intervention and informing populations and decision-makers 	Follow-up, supervision and observation	D. Environnement M. Interior MSP	1,5
	National contribution to implementing Convention on Climatic Changes	Air 7	<ul style="list-style-type: none"> • Study application modalities and the convention recommendations • Identify statutory measures and practices required by the Convention • Coming up with necessary statutory revision • Implement the Convention's recommendations 	Legislation and standardization	D. Commerce & Industry D. Energy & Mines D. Environnement M. Transport	2
	Controlling demand on energy at the level of tertiary, residential, industry, transport and agriculture sectors	Air 8	<ul style="list-style-type: none"> • Set up inciting measures to encourage concerned parties in energy consuming activities (Industrie, tourism) to make audits on use of energy • Adopt performing and energizing technologies and equipments and to assume a more anxious behavior towards efficiency of energy • Lead campaigns for increasing public awareness and training in what concerns economy of energy • Set up a regulation regarding economy of energy in buildings • Implement regulations by sectors and standards for energy consumption, mainly for certain electricals • Set up a regulation concerning approaches aiming at rational use of energy (audits on use of energy, feasibility studies, etc) • Set up inciting tax measures and promote financing mechanisms in order to finance operations for energy efficiency 	Increasing public awareness, information and communication	D. Energy & Mines CDER	6

2- Optimizing consumption of energy and developing renewable energies and clear technologies	Implementing strategic plan for renewable energies	Air 9	<ul style="list-style-type: none"> • Set up tools for implementing the plan : <ul style="list-style-type: none"> . Set up inciting measures . Promote a regulation appropriate to developing renewable energies • Reinforcing CDER capacities • Revising tax related to renewable energies sector (VAT, tax on importation)- 	Legislation and standardization	CDER D. Energy & Mines ONE	pour mémoire (Programme CDER)
	Promoting bio-gas recovery	Air 10	<ul style="list-style-type: none"> • Set up a program for making successful experiences ,regarding biogas use in urban areas, well known • Evaluate successful experiences, mainly in Souss-Massa region and elaborate a plan to multiply these experiences • Make trainers undergo a training to sustain these programs • Elaborate an action plan for producing biogas at a large scale (industrial applications, laboratories, solid and liquid waste...) • Develop the use of autoclaves 	Increasing public awareness, information and communication	D. Energy & Mines CDER MADREF ONEP M. Interior	3
	Spreading the use of butanes in rural areas	Air 11	<ul style="list-style-type: none"> • Launch campaigns for informing and making people aware of the importance of economizing wood energy and advantages in using butanes and biogas in rural areas • Regionalize centers for filling butanes • Analyze obstacles related to diffusion of butane in rural areas and identify appropriate solutions • Make spread public hammams (Turkish baths), using butanes 	Increasing public awareness, information and communication	D. Energy & Mines CDER MADREF	3
	Increase public awareness to the use of renewable energies	Air 12	<ul style="list-style-type: none"> • Realize campaigns for communication and increasing public awareness in order to promote the use of renewable energies • Reinforce CDER means (Documentation center) • Accredite CDER training centers • Develop consumer's confidence by putting into effect adapted means (freefone, information) 	Increasing public awareness, information and communication	CDER CIED D. Agriculture	10
	Promote private and partnership investment at the level of independent production of electricity and developing a national industry and service companies in the field of energy	Air 13	<ul style="list-style-type: none"> • Set up statutory, institutional and tax tools to promote the use of renewable energies • Encourage independent production, namely by concessionary production (revising laws, particularly, the one on production limits) • Promote developing national industry and service companies in the field of energy which can for instance be engineering companies (mainly for realizing audits and providing technical advice for a more rational use of energy), industrial enterprises dealing with electrical equipment manufacturing, especially those using renewable energies, or companies offering energizing services which are more closer to the idea of " energy house" , providing advice and services to rural populations 	Reinforcing institutional capacities	CDER ONE D. Energy & Mines	10

	Developing photovoltaic market	Air 14	<ul style="list-style-type: none"> • Set up a program to develop photovoltaic market for rural electrification and water pumping • Speed up implementation of Global Rural Electrification (PERG), component of photovoltaic program • Diversify PV applications (consumption, telecommunications, industry...) • Support CDER efforts to accredit testing laboratories (modules, accessories...) 	Increasing public awareness, information and communication	D. Environment ONE D. Energy & Mines	5
	Implementing a program for a good spread of solar water heaters	Air 15	<ul style="list-style-type: none"> • Set up inciting measures to help acquire household solar water heaters • Elaborate and implement a program for a large scale spreading of solar water heaters • Set up a partnership with private sector for marketing solar water heaters. • Promoting the put into practice of GRS when it comes to collective installations • Support CDER efforts in accrediting laboratories regarding solar water heaters • Create a guarantee and support fund for GRS and for consumer credit 	Planning	CDER ONE D. Energy & Mines	5
	Promoting decentralized electrification through small networks (MCH, systems, hybrids)	Air 16	<ul style="list-style-type: none"> • Realize promoting actions addressed to populations concerned by the projects on sites for which inventories were made by CDER • Promote the emergence of local parties interested by offering services after sale of micro-hydroelectric stations • Realize leading projects in the field of hybrid systems 	Realization	CDER ONE	20
	Promoting the use of renewable energies solutions to control economizing energy	Air 17	<ul style="list-style-type: none"> • Encourage on-going actions regarding improved technologies, namely in what concerns firewood • Encourage mass spreading of solar water heaters 	Realization	CDER ONE D. Water & Forests	30
	Promoting the use of renewable energies solutions to produce power electricity	Air 18	<ul style="list-style-type: none"> • Set up a plan of action to exploit existing fields (wind, thermosolar, biomass...) • Support orientations of CDER strategic plan regarding this matter. 	Realization	CDER D. Energy & Mines ONE	CDER program

4- NATURAL MILIEU

4-1- Biodiversité

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
1- Reinforcing capacities of sustainable management of biological diversity.	Carrying out a study on traditional knowledge and practices related to lasting management of biological diversity.	Natural surroundings 01	<ul style="list-style-type: none"> Carry out a general evaluation study on traditional knowledge concerning the use of biological diversity in Morocco based on available data at the level of universities, research institutes and personal resources. Spread results of the study among managers, scientists and large public, especially through Environment Department Web Site 	Improving state of knowledge	D. Environment	2
	Study and classification of shellfish farming zones	Natural surroundings 02	<ul style="list-style-type: none"> Identify and classify shell-rich zones on the two maritime fronts of Morocco in accordance with degree of water salubrity, specific richness and degree of the threat on shellfish species in these zones. 	Improving state of knowledge	M. Maritime Fishing (INRH) M. Health D. Water & Forests	1
	Elaboration of and ecological manual for Morocco	Natural surroundings 03	<ul style="list-style-type: none"> Elaborate an ecological manual for Morocco aiming at developing natural sites of the country and contribute to improving the image of Morocco abroad. Spread the manual among tourist operators, particularly those working in mountainous regions and among the large public. 	Realization	Scientific institutes D. Agriculture Farmers Culture-Tourism	0,5
	Speeding up the scheme for the creation of a national committee for biological security	Natural surroundings 04	<ul style="list-style-type: none"> Setting up a national committee for biological security 	Realization	D. Agriculture	3
	Elaboration and implementation of a program for preservation and rehabilitation of some endangered raptor species and their habitat	Natural surroundings 05	<ul style="list-style-type: none"> Prepare a program for preserving and rehabilitating, in their natural habitat, endangered raptors species identified by the study on protected areas and by the National Study on Biological Diversity. To implement leader projects. 	Planning	D. Water & Forests	40
2- Reinforcing SIBE network	Implementation of development measures for the protection of natural lakes: Leader case of Dayat Roumi, Aguelmem Azegza and Issli and Tisslit lakes.	Natural surroundings 06	<ul style="list-style-type: none"> Implement development measures aiming at reducing sites deterioration due to tourist and intensive breeding activities (installation of roadsigns, protection perimeters, camping areas, footpaths and drinking troughs). Carry out, in partnership with the concerned townships, control and follow-up measures of sites quality. 	Realization	D. Environment D. Water & Forests	For memory
	Preservation of wet zones and coastal ecosystems in the Mediterranean region.	Natural surroundings 07	<ul style="list-style-type: none"> Take out technical, economic, land, legislative, statutory, institutional, information and research measures aiming at facing threats on biological diversity in the Mediterranean coastline of Morocco. Support the creation of a "coastline unit" in the Department of Environment. Support the establishment of a National Coastline Committee, directed by the Department of Environment within the framework of the CNE. 	Environmental management	D. Environment D. Water & Forests Med Wet Cost project Committee	60 For memory
	Reinforcing the management of phytogenetic heritage safeguard	Natural surroundings 08	<ul style="list-style-type: none"> Support INRA in order to create a national genes bank. Establish a national bank of genes of phytogenetic resources (INRA/IAVH). Elaborate a national code of conduct regulating the collection and transfer of phytogenetic resources. 	Research and development	INRA	3

3- Reinforcing the capacities of protection and management of endangered species and sensitive ecosystems.	Updating and regulating the red national list of endangered species.	Natural surroundings 09	<ul style="list-style-type: none"> • Complete and update the list of endangered species to be put at the disposal of decision-makers, managers, private sector and scientists in order to carry out a lasting management of species and their habitat. • Set up a specific regulation. 	Legislation and standardization	D. Environment INRA	0,4
	Elaborating and implementing a supervision and research program related to endangered marine species.	Natural surroundings 10	<p>Supervision :</p> <ul style="list-style-type: none"> • Organize proficiency training courses for executives and technicians in the marine field. • Elaborate a program for supervising endangered marine species. • Set up a network to supervise state of the population of endangered marine species, using suitable institutional, scientific and technical means. • Draw up a map of distribution of the endangered species' habitat. <p>Research :</p> <ul style="list-style-type: none"> • Identify and characterize the state of the populations of endangered marine species. • Identify and characterize the periods of biological rest for piscatorial endangered marine species. • Evaluate the impact of threats on the viability of species and their habitat. • Organize training seminars related to the safeguard of marine resources, for technicians in charge of supervision 	Follow-up, supervision and observation	- M. Maritime Fishing (INRH) D. Environment	16
	Elaborating and implementing a program aiming at preserving in situ endangered local plants varieties	Natural surroundings 11	<ul style="list-style-type: none"> • Make an inventory and study endangered local plants varieties. • Draw up an action program with a component to be achieved by farmers. • Carry out, in cooperation with farmers, projects in farms. • Implement accompaniment measures especially creating labels and supporting involved farmers . • Support preservation efforts preservation made by farmers through the promotion of quality labels. 	Research and development	INRA	30
	Setting up a law on fishing and preserving the marine ecosystem	Natural surroundings 12	<ul style="list-style-type: none"> • Carry out a study aiming at updating all laws related to maritime fishing and ecosystems. • Identify needs and insufficiencies. • Promulgate new laws. 	Legislation and standardization	M. Maritime Fishing	1,5
	Creation of a national botanical garden	Natural surroundings 13	<ul style="list-style-type: none"> • Carry out a feasibility study with the scientific and technical support of specialized institutes. • Choose an appropriate site. • Create a national botanical garden. • Draw up and implement a management plan for the garden. 	Implementation	D. Water & Forests	4
	Development of the argane tree	Natural surroundings 13	<ul style="list-style-type: none"> • Update knowledge on the argane tree deterioration with the cartography of threatened zones. • Set up integrated village development plans in the framework of a participative approach. • Consolidate scientific research aiming at safeguarding the argane tree. 	Implementation	D. Water & Forests	2

4- Natural surroundings

4-2- Fragile ecosystems

4-2-a- Coastline

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
1. Setting up and implementing a framework for the development of coastline zones.	Reinforcing the legal framework related to environment protection	Natural surroundings 15	<ul style="list-style-type: none"> Speed up elaboration and adoption of the bill on coastline 	M. Interior	Mc. Maritime Fishing	-
	Generalizing of master plan for the national coastline development	Natural surroundings 16	<ul style="list-style-type: none"> Speed up the elaboration and implementation of the master plan for the development of urban coastline SDAUL. Generalize the approach to cover the entire Moroccan coastline. Speed up the elaboration and implementation of the master plan for development of urban coastline SDAUL. Set up instructions for the coastline integrated protection. 	Environmental management	D. Environment	20
	Creating an observatory for the coastline	Natural surroundings 17	<ul style="list-style-type: none"> Set up the terms of reference concerning the observatory. Identify institutional partners and make the organization chart. Provide for necessary means to create the observatory. 	Follow-up, supervision and observation	D. Environment D. Territory Development	5
2. Control of dumping and struggle against urban dumping into the sea and protection of the swimming water quality.	Setting up and implementing SDAL in coastline cities	Natural surroundings 18	<ul style="list-style-type: none"> Speed up SDAL implementation 	Planning	M. Interior	See SDAL
	Elaborating and integrated strategy for the development of the coastline and hinterland	Natural surroundings 19	<ul style="list-style-type: none"> Carry out the recommendations of the National Debate Territory Development Define the spatial units for development and regional development. Initiate and create dialogue between the partners concerned by the implementation of development strategies. 	Environmental management	D. Territory Department D. Environment	30
	Reinforcing and coordinating networks for supervising chemical and biological quality of marine environment and hygienic quality of beaches	Natural surroundings 20	<ul style="list-style-type: none"> Monitoring chemical and biological quality of the marine environment. Evaluate networks for supervising marine pollution. Identify and characterize the levels of telluric pollution from urban agglomeration zones. Evaluate the impact of this pollution on the marine biological diversity and the human health. Set up a supervision program. Elaborate and implement an action plan defining prevention and struggle against pollution. Organize proficiency training courses for executives and technicians who will be required to intervene. Prepare a national report on the quality of the marine surroundings (particularly hot spots and sensitive zones). Supervise hygienic beaches quality. Set up a national network for the supervision and control of beaches quality. Make a national report on the hygiene of beaches in order to classify these beaches according to their quality. Institutionalize the interdepartmental committee for beaches hygiene "GHP" 	Follow-up, supervision and observation	D. Environment	50
	A participative approach with tourist operators working in the seafront (hotel keepers, elected representatives, etc.)	Natural surroundings 21	<ul style="list-style-type: none"> Implement awareness and communication workshops with concerned operators Draw up concerted action programs for each zone. Implement, in partnership with operators, pilot actions. 	Increasing awareness, information and communication	D. Environment M. Tourism	50

	Elaborating environmental guiding lines for the development of tourist stations	Natural surroundings 22	<ul style="list-style-type: none"> • Carry out a study on the state of premises and the impact of e tourist stations. • Set up workshops with concerned operators in order to draw up concerted guiding lines. • Fix the terms of reference for the protection of the coastline environment to be used by tourist operators. 	Planning	M. Tourism D. Environment	1
3- Control and struggle against coastal erosion	Rehabilitating beaches of Agadir and Tangier Bays threatened by erosion	Natural surroundings 23	<ul style="list-style-type: none"> • Carry out studies aiming at evaluating the impact of the installations (jetty, etc.) along the coast. • Set up and implement an action program for struggle against transforming coastlines. 	Implementation	M. Tourism D. Environment M. Equipment	150
4- Control of pollution (accidental or industrial) along the coastline and struggle against ecological accidents.	Elaborating and implementing action plan for pollution clearing-up (struggle and industrial prevention in sensitive zones: regions of El Jadida and Safi)	Natural surroundings 24	<ul style="list-style-type: none"> • Carry out 10 audits in each region respectively in El Jadida and Safi at the level of most representative industrial sectors. • Elaborate a regional plan to clear the pollution and manage industrial risks. • Organize information, training and planning workshops with involved operators • Elaborate and implement an information, follow-up, self-control and evaluation system for the action plans aiming at clearing up pollution. 	Implementation	Department of Environment	50
	Promulgation of a departmental order enforcing decree no.2.95.717 dated November 22nd, 1996, related to struggle against accidental marine pollution	Natural surroundings 25	<ul style="list-style-type: none"> • Define the procedure to be followed in order to implement the National Emergency Plan in case of a maritime accident resulting in a massive pollution by hydrocarbons and other harmful products. 	Legislation and standardization	D. Environment	
	Training the staff in charge of the struggle against the accidental marine pollution	Natural surroundings 26	<ul style="list-style-type: none"> • Provide an appropriate training for the staff in charge of the protection of Moroccan coasts against the harmful effects of an accidental marine pollution. • Make simulation exercises of the National Emergency Plan in case of a marine pollution. 	Reinforcing institutional capacities	D. Environment	10
	Elaborating emergency and intervention plans at the level of the ports of the kingdom	Natural surroundings 27	<ul style="list-style-type: none"> • Carry out a study related to prevention instruments, struggle, security and hygiene of ports. • Set up an integrated local port plans. • Staff training • Set up procedures to test, review and update plans. 	Environmental management	M. Equipment ODEP	18
5- Control and protection of the quality of the water of port basins.	Participation of marine professionals in the efforts of struggling against marine pollution and pollution of port basins	Natural surroundings 28	<ul style="list-style-type: none"> • Train marine professionals. • Launch campaigns to increase awareness about coastal fishing. • Manage waste on board. • Promote good practices in order to recover solid waste and oils waste. 	Increasing awareness, information and communication	ODEP D. Environment	2
	Controlling port waters quality	Natural surroundings 29	<ul style="list-style-type: none"> • Set up a network to follow-up and control the quality of water in port basins. • Consolidate concerned services (ODEP, etc.) by providing them with necessary means. • Train technicians and agents in charge of the follow-up operation. • Create stations for cleaning the country's ports. 	Follow-up, supervision and observation	ODEP M. Equipement	15

4- NATURAL SURROUNDING

4-2- Fragile ecosystems

4-2-b- Oasis

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
Protection of the oasis ecosystems	Integrating environmental component in the strategy for regional development: pilot zone in the sub-Saharan ecosystem located between Zagora and Ourzazate along Deraa River.	Natural surroundings 30	<ul style="list-style-type: none"> • Make a diagnosis of the zone potentialities, action programs for development and development protecting measures. • Make an inventory and an analysis of the achievements of economic and social development and their impact on the environment in involved regions and in neighboring zones. • Set up an action plan to meet observed needs. • Propose measures and means necessary for integrating environment in regional development. • Support the implementation of an economic and social program of oasis emanating from the " biosphere oasis network" . 	Environmental management	D. Agriculture	20
	Reinforcing existing interventions related to the protection of oasis ecosystems In Morocco: pilot cases of Figuig Oasis.	Natural surroundings 31	<ul style="list-style-type: none"> • Support and promote actions for the protection of oasis ecosystems to reduce natural resources deterioration and carry out a lasting improvement of social and economic conditions of local populations . 	Realization	D. Agriculture	For memory
	Elaborating a strategy for the development of oasis	Natural surroundings 32	<ul style="list-style-type: none"> • Set up a database for oasis in Morocco. • Carry out a study on environmental constraints and potentialities of the Moroccan oasis surroundings. • Draw up specific development schemes. 	Improving state of knowledge	D. Agriculture	5
	Struggling against sand dune in oasis in the valleys of Ziz oasis in the valleys of Ziz	Natural surroundings 33	<ul style="list-style-type: none"> • Identify intervention zones and evaluate their degree of degradation. • Undertake actions of rehabilitation and struggle against sand dune in oasis chosen in the valleys of Ziz and Deraa. 	Realization	D. Agriculture	40

4- NATURAL SURROUNDING

4-2- Fragile ecosystems

4-2-b- Mountains

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
1- Reinforcing the institutional and legal framework for the protection and preservation of the mountainous zone	Speeding up the elaboration of a specific law for the protection and development of mountains.	Natural surroundings 34	• Reinforce Ministry in charge of Water and Forests management capacities.	Legislation and standardization	D. Agriculture	30
	Reinforcement of the capacities of management of the ministry in charge of water and forests.	Natural surroundings 35	• Reinforce and support the effort of staff training • Provide regional services with means of management, follow-up and control.	Reinforcing institutional capacities	D. Agriculture D. Water & Forests	30
	Improving knowledge concerning the functioning of the mountain ecosystems	Natural surroundings 36	• Establish partnership with research institutions and establishments to reinforce research on forest ecosystems (particularly field research). • Set up information systems on mountain zones.	Improving state of knowledge	D. Agriculture D. Water & Forests	10
2- Implementing an integrated social and economic program for populations living in mountains	Implementing a plan for developing mountain ecosystems in Morocco and creating a mountain observatory	Milieu surroundings 37	• Make a detailed diagnosis of Moroccan mountainous zones. • Draw up an integrated plan for the development of mountains, including : * Protection of biological diversity of water and ground resources. * Rational preservation and management of mineral resources and quarries. * Development of productive sectors (agriculture, breeding, tourism, commerce and crafts industry, etc.) * Access to social services and housing. * Safeguard the cultural and geological heritage. • Create a mountain observatory.	Planing	D. Water & Forests D. Environment	15
	Study on the strategy for developing of Medium Atlas	Natural surroundings 38	• Support the implementation of the action plan emanating from the studies carried out by MATHEU. • Ensure that these studies are supervised by concerned administrations (Water & Forests, Agriculture)	Improving state of knowledge	D. Territory development D. Water & Forests D. Agriculture	2
	Study on the strategy for developing High Atlas	Natural surroundings 39	• Speed up implementation of studies carried out by MATHIEU. • Ensure that these studies are supervised by concerned administrations (Water & Forests, Agriculture) • Carry out a pilot project for regional development in Haouz province.	Improving state of knowledge	D. Territory development MADREF	3
3- Improvement of the mountain products	Setting up and implementing an ecotourist development plan	Natural surroundings 40	• Identify sites of ecological interest, activities and circuits to be promoted. • Encourage the creation of professional associations. • Set up terms of reference and development manuals for the benefit of townships, potential promoters and property developers. • Promote private investment in the sector of ecological mountain tourism. • Set up orientation tables in the main massifs with light equipment: parking, picnic area, dustbins, road signs, toilet blocks, shelters, etc.	Increasing awareness, information and communication	M. Tourism D. Water & Forests	10
	Development of tourist sites (caves, etc.)	Natural surroundings 41	• Identify and make cartography of sites with ecological interest • Draw up specific development programs. • Implement pilot actions. • Integrate sites in the ecological and tourist circuit.	Realization	D. Geology M. Tourism	20
	Speeding up the setting up and implementation of ecologically regional and national zones (Ait Bouguemmaz, etc.)	Natural surroundings 42	• Implement studies on the state of premises and potentialities of the region. • Set up plans for integrated development in the framework of a participative approach. • Implement the set up plan.	Realization	D. Agriculture D. Water & Forests D. Environment	40
	Stimulating the activity of national parks	Natural surroundings 43	• Speed up the creation of new parks • Promulgate decrees organizing parks already created following the example of Souss-Massa park	Realization	M. Tourism D. Agriculture	100

4- NATURAL SURROUNDING

4-3- Forests

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
1- Promoting a rational and patrimonial management of forest resources	Developing human resources for the management of forest sector	Natural surroundings 44	<ul style="list-style-type: none"> Identify new profiles necessary for the management of the forest sector. Reinforce the continuous training program initiated by the MCEF. Create communication services within the DREF and set up an internal system of information. Perpetuate an in-house newsletter of the MCEF Create quality units. Establish partnership with institutions specialized in training to target the training program for forest technicians and executives. 	Reinforcing institutional capacities	D. Water & Forests	2
	Updating forest legislation and regulation	Natural surroundings 45	<ul style="list-style-type: none"> Set up an interdepartmental committee for the project upon legislative, statutory and fiscal revision adoption. Carry out a study on the legislative, statutory and tax audit with a view to implementing a national forest plan. Revise systematically the forest legislation and regulation to adapt it to National Forest Plan objectives. Harmonize the forest legislation with other sectorial legislations. 	Legislation and standardization	D. Water & Forests	2
2- Developing forest and peripheral forest zones	Reforestation in priority zones (especially Rif mountains)	Natural surrounding 46	<ul style="list-style-type: none"> Speed up the implementation of the national program for reforestation. 	Realization	D. Water & Forests D. Agriculture	
	Contributing to the safeguard of fragile ecosystems (Marmora, etc.)	Milieu surroundings 47	<ul style="list-style-type: none"> Encourage population to participate in the protection of fragile forest resources. Promote small participative projects generating income. Stimulate the agreement between the Ministry of National Education and the Ministry in charge of Water and Forests in order to heighten awareness and encourage students to participate in forest actions. 	Implementation	D. Water & Forests D. Environment	15
	Promoting rural and mountainous forestry	Natural surroundings 48	<ul style="list-style-type: none"> Implement mechanisms of solidarity throughout society so as to allow giving a part of revenues generated by forest resources (wood, ore, etc.) to forest and mountain zones. Set up a subsidy system encouraging investment and promoting more forest zones and peripheral forest zones. This system is justified by its being a compensation for certain handicaps Set up contractual management schemes for pastoral areas (State, local collectivities, users). Establish a special fund for the development of forest areas. 	Environmental management	D. Water & Forests	50
	Management and substitution of wood energy in the forest surroundings	Natural surroundings 49	<ul style="list-style-type: none"> Identify zones most exposed to deterioration due to uncontrolled exploitation of wood energy. Set up a master scheme of priority forests management as regard to wood energy Promote programs for substituting energy wood by butane or other products and techniques. Review energy tax system in forest zones. Develop the participative action in order to promote new regulations of multi-functional management of forests. Promote complementary agro-forest activities in priority zones. 	Planning	D. Water & Forests CDER D. Agriculture	20
	Management of pastoral areas in forest zones	Natural surroundings 50	<ul style="list-style-type: none"> Train agents in charge of development, qualified to bring together and supervise all partners involved in the use or management of pastoral areas in forest zones. Organize stock breeders in associations and cooperatives. Consider all ways to fix the forest pastoral areas exploitation tax. Help stock breeders diversify their activities and income sources, especially outside agriculture and breeding (ecological tourism, crafts industry) 	Realization	D. Water & Forests M. Equipment	40

5- PREVENTION OF NATURAL DISASTERS AND MAJOR TECHNOLOGICAL RISKS

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
1- Improving state of knowledge related to natural and technological risks	Identifying housing zones at risk	Risk 01	<ul style="list-style-type: none"> Identify and make an inventory of housing areas at risk and types of risks (banks of rivers, rise in water level, seismic zones, landslide, industrial risks). Carry out a socioeconomic study on the concerned population. Evaluate the impact of natural disasters on environment. 	Improving state of knowledge	D. Environment	31
	Identifying natural risks and their repercussions	Risk 02	<ul style="list-style-type: none"> List different types of possible natural risks in Morocco-Classify these risks according to criteria of occurrence and amplitude-Identify and analyze types of repercussions related to each risk. 	Improving state of knowledge	D. Environment	5
	Identifying technological risks and their repercussions	Risk 03	<ul style="list-style-type: none"> List different types of possible technological risks in Morocco-Classify these risks according to criteria of occurrence and amplitude-Identify and analyze types of repercussions related to each risk. 	Improving state of knowledge	D. Environment	2
	Making a study on natural disasters risks in the urban area	Risk 04	<ul style="list-style-type: none"> Identify sectors at risk. Make a study of the different types of risks. Set up an information system for zones at risk, population and concerned activities. 	Environmental management	D. Environment	10
2- Improving capacities of management and prevention of risks	Modernizing applicable law in the field of risks	Risk 05	<ul style="list-style-type: none"> Prepare a bill serving as a framework for the management of natural and technological risks on the institutional as well as on the legal levels (major principles) and list obsolete laws to be abrogated. Decline the application law for this bill (decree, departmental order and circulars) by abrogating obsolete laws- Have practical means of application: control body, sanction scale. 	Legislation and standardization	D. Environment	-
	Developing forecasting and implementation of adequate technical means	Risk 06	<ul style="list-style-type: none"> Identify and develop detection tools and systems (state of art/risks). Organize observations (human means and investments). Organize transversal communication as regard to observations between different ministerial departments. Make a statement of the state of art, current practices and deficiencies related to each type of risk identified. Define technical actions (infrastructure and equipment) with investment priorities and needs- Study public assistance provided for collectivities as an incentive. 	Realization	D. Environment	2
	Improving coordination between intervening parties during a crisis related to major technological risks	Risk 07	<ul style="list-style-type: none"> Propose crisis exercises for each type of risk at the national and territorial levels (preparatory seminars, procedures, exercises..) Develop consequently the measures related to responsibilities and develop operational procedures. Organize systematically the post-crisis return of experience between all involved ministerial departments , identify action courses (population, infrastructure and collective equipment) Propose support mechanisms (NGO's and subsidies) and compensation (insurance) 	Reinforcing institutional capacities	M. capacities	5

Prévention des risques technologiques	Risques 08	<ul style="list-style-type: none"> • Sensibiliser les industriels sur la gestion des risques dans leurs entreprises • Inciter les industriels à instaurer des démarches qualité pour minimiser les risques • Élaborer des plans d'urgence en cas de catastrophe • Mettre en oeuvre des actions d'atténuation des risques et de délocalisation (des activités ou des habitats) • Mettre en place des réseaux de communication et d'alerte pour l'organisation des secours • Renforcer la sensibilisation parmi les collectivités et les services aux risques technologiques • Intégrer la prévention des risques technologiques et la gestion des urgences dans les politiques d'aménagement urbain • Instaurer des concepts de parcs avec un cahier de charge spécifique 	Gestion environnementale	D. Environnement	50
Protection des travailleurs contre les risques sanitaires liés à la manipulation des produits dangereux	Risques 09	<ul style="list-style-type: none"> • Instaurer des visites médicales régulières au profit des travailleurs qui manipulent des produits dangereux • Mettre en place un système d'identification et de déclaration des maladies d'origine professionnelle • Élaborer une réglementation stricte en matière d'hygiène industrielle (valeurs limites d'exposition aux produits toxiques: obligation de suivi régulier par le médecin du travail dans les secteurs à risque) • Mettre en place un système de dédommagement des travailleurs victimes de maladies professionnelles invalidantes. • Promouvoir la recherche épidémiologique visant à cerner les impacts des substances toxiques manipulées par les travailleurs sur leur santé. • Mettre en place un plan d'information et de sensibilisation adéquats en faveur des exploitants des entreprises et des travailleurs, concernant les dangers inhérents à la manipulation, sans précaution, des substances toxiques 	Législation et normalisation	MSP Emploi	10
Renforcement des capacités nationales en matière de gestion des catastrophes naturelles	Risques 10	<ul style="list-style-type: none"> • Promouvoir le renforcement institutionnel et juridique en matière des risques technologiques • Réaliser une enquête historique sur les crises passées et l'acquisition des données et documents nécessaires à l'évaluation et à l'identification des sites à risques • Réaliser des études pilotes pour coordonner et renforcer la politique préventive des différents départements concernés par les risques naturels • Mettre en oeuvre le Plan de Prévention des Catastrophes Naturelles (PPCN) • Renforcer les dispositions visant à prendre en compte les risques dans les documents d'aménagement • Élaborer des plans d'urgence en cas de catastrophe • Mettre en oeuvre des actions d'atténuation des risques et de délocalisation (des activités ou des habitats) 	Renforcement des capacités institutionnelles	D. Environnement	50
Élaboration et mise en oeuvre d'un programme national de détection, de surveillance et de contrôle de la radioactivité	Risques 11	<ul style="list-style-type: none"> • Réaliser un inventaire des matières nucléaires générées par les activités médicales, industrielles et agricoles ainsi que la recherche scientifique • Promouvoir le renforcement institutionnel nécessaire en matière de contrôle et de surveillance de la radioactivité • Organiser un programme de formation sur le contrôle de la radioactivité destiné aux cadres exerçant dans ce secteur • Élaborer une stratégie préventive dans le domaine du nucléaire et appui à sa mise en oeuvre 	Suivi, surveillance et observation	M. Intérieur M. Santé Publique CNESTEN Douanes D. Commerce et Industrie	20
Campagnes de contrôle des activités liées aux explosifs, aux appareils à pression et à la protection de l'environnement	Risques 12	<ul style="list-style-type: none"> • Mettre en place des dispositifs pour améliorer les conditions de sécurité et de sûreté des explosifs et accessoires de tir et des appareils de pression à vapeur - Sensibiliser et former des techniciens et agents opérant dans ce secteur 	Sensibilisation, information et communication	D. Énergie et Mines	1,5
Réglementation de la manipulation, l'utilisation et la circulation en sécurité des organismes génétiquement modifiés résultant de la biotechnologie moderne	Risques 13	<ul style="list-style-type: none"> • Mettre en place un dispositif de contrôle et réglementation de la circulation et de l'utilisation des organismes génétiquement modifiés • Organiser des campagnes de sensibilisation destinées aux opérateurs et des citoyens en matière de risques liés aux OGM 	Législation et normalisation	D. Agriculture M. Santé Publique	1

6- IMPROVEMENT OF URBAN AND URBAN-RELATED ENVIRONMENT

6-1- Urbanism, housing and environment

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
1- Integrating environmental dimension in the process of urban planning and urbanism documents	Preparing a manual for green areas	Urban surroundings 01	<ul style="list-style-type: none"> Carry out a study on good practices related to green areas. Elaborate and spread the manual. Train technicians and agents in charge of the management and maintenance of green spaces 	Environmental management	D. Urbanism	1
	Strengthening national capacities in the field of environmental studies prior to the development of urban and industrial programs in sensitive zones	Urban surroundings 02	<ul style="list-style-type: none"> Carry out an environmental pilot study on a program for rural development. Carry out an environmental pilot study prior to the creation of an industrial zone (case of Casablanca). Elaborate methodological manuals and other for good practices. Prepare terms of reference for integrating environmental studies in Development Plans. Train concerned actors. 	Reinforcing institutional capacities.	D. Environment	2,5
	Integrating environmental issues in the law concerning urbanism and in urbanism documents	Urban surroundings 03	<ul style="list-style-type: none"> Make an inventory of existing provisions for town planning laws and regulations related to environment. Consolidate the notion of environment protection in legislation, regulations and urbanism documents and in housing specifications. Make major housing projects subject to impact studies procedure. Increase awareness and train concerned parties on the environmental approach of the urban planning. 	Legislation and standardization	D. Environment D. Urbanism	2
	Integrating the environmental issue in the concept of Tourist Development Unit	Urban surroundings 04	<ul style="list-style-type: none"> Identify sites with tourist interest. Prepare terms of reference for preserving environment. Set up a mechanism of control and follow-up of projects. 	Planning	D. Urbanism M. Tourism	1
	"Morocco, clean cities" program	Urban surroundings 05	<ul style="list-style-type: none"> Implement action plans for cities in which environment local monographs were carried out. Elaborate local plans for environment based on generalizing local monographs of environment for 60 cities, having more than 50000 inhabitants. To take pilot actions. 	Planning	D. Urbanism D. Environment M. Interior	30
2- Fight against insalubrious and anarchic housing and introduction of a regulation in the field of construction	Bills on solidarity action for struggle against slums	Urban surroundings 06	<ul style="list-style-type: none"> Speed up the setting up of the law related to: Promoting decent housing and improving housing conditions. Encouraging public and private actors to be actively involved in the policy of gradual slums bringing-down 	Legislation and standardization	D. Housing	-
	New tools of intervention for struggle against slums: PLHDU, ZAP and ZUN	Urban surroundings 07	<ul style="list-style-type: none"> Create adequate tools to introduce new methods of intervention for struggle against slums in order to reverse the tendency of urban fabric and environmental pollution deterioration. 	Legislation and standardization	D. Housing	-
	Action program for gradual reduction of slums (PARHI)	Urban surroundings 08	<ul style="list-style-type: none"> Undertake actions identified by the Department of Housing (decennial program) 	Management of the environment	D. Housing	For memory (PARHI)
	Elaborating a program for rehabilitation of old urban fabric	Urban surroundings 09	<ul style="list-style-type: none"> Carry out identification studies. Identify priority stages. Undertake actions identified in collaboration with the population. 	Management of the environment	D. Housing M. Culture	6
3- Improvement of local capacities in the management of the urban environment	Introducing environmental impact studies and rehabilitation of industrial zones	Urban surroundings 10	<ul style="list-style-type: none"> Speed up reinforcing the law. 	Improving state of knowledge	D. Environment	-
	Making a study on zones of economic and industrial activities	Urban surroundings 11	<ul style="list-style-type: none"> Provide solutions for the freeing in industrial zones. Evaluate degree of attraction and improve the value of industrial zones, located by urbanism documents. Define requirements for setting up some polluting industries. 	planning	D. Environment MICEM	1,5

6- IMPROVING URBAN AND URBAN-RELATED ENVIRONMENT

6-2- Struggle against industrial pollution

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
1- Reinforcing the capacity for managing industrial waste	Reinforcing information system of DIED (Industrial Development Ecologically Lasting)	Urban surroundings 12	<ul style="list-style-type: none"> • Make environmental audits within DIED context • Create, in Department of Environment, a specialized information system on industrial development ecologically lasting 	Increasing public awareness, information and communication	D. Commerce & Industry	5
	Support to developing environmental aspect of the industrial sector and setting up of economic and financial instruments to struggle against industrial pollution	Urban surroundings 13	<ul style="list-style-type: none"> • Elaborate conventions with different partners of the private sector (CGEM, professional associations, research institutes) implicating them in different axes for reinforcing national capacities regarding practice of audit, self-control and follow up of industrial pollution • Organize workshops for increasing public awareness, training and assessing : <ul style="list-style-type: none"> * Practice of technical audits for industrial pollution, preparing plans for organization and follow-up * Methodology for elaborating standards related to industrial and mining sector * Inciting and financial measures (FODEP) as regard to industrial cleaning-up • Realize environmental audits in an educational form for leading enterprises • Elaborate sectorial guiding manuals on audits realization according to important cases dealt with. • Define accreditation procedures for private research departments and laboratories able to realize environmental 	Reinforcing institutional institutional	D. environment D. Commerce & Industry	41
	Elaborating and implementing a plan substances chimiques for managing chemical substances	Urban surroundings 14	<ul style="list-style-type: none"> • Update inventories for toxic chemical products (production , storage, use and elimination) • Set up a structure for management and control to deal with management of these products • Make an account of data related to import and export of dangerous chemical substances • Establish a database for chemical substances and pesticides • Reinforce laboratories capacities concerning analysis of chemical substances and dangerous pesticides • Set up a national emergency plan for prevention and intervention in case of serious accidents due to these chemical substances and dangerous pesticides • Organize workshops for training and increasing public awareness • Reinforce the legal framework 	Planning	D. environment D. Commerce & Industry	20

2. Reinforcing legislative and statutory framework	Setting up self control procedures for industrial activities	Urban surroundings 15	<ul style="list-style-type: none"> • Elaborate and spread self control manuals • Set up a follow up, control and observation system 	Follow up, supervision & industry	D. Commerce & Industry	1
	Regularizing litigations concerning activities in industrial zones	Urban surroundings 16	<ul style="list-style-type: none"> • Identify and register industrial activities existing in zones not authorized for such activities • Evaluate these activities pollutions and nuisances • Look for appropriate solutions, rehabilitation... 	Environmental management	D. Commerce & Industry	2,5
	Revising Dahir dated August, 25th, 1914, concerning regulations pertaining to inconvenient, dangerous and insalubrious establishments	Urban surroundings 17	<ul style="list-style-type: none"> • Review and elaborate technical regulations concerning insalubrious establishments • Speed up adoption of bills and decrees related to classified installations 	Legislation and standardization	D. Environnement M. Equipement	0,5
	Setting up standards and limits for industrial waste (liquid, gas, and solid) as regard to priority industrial and mining sectors	Urban surroundings 18	<ul style="list-style-type: none"> • Realize audits in leading enterprises belonging to selected priority sectors • Elaborate projects for standards and limits of sectorial waste, on the basis of audits made to this effect, in collaboration with industrialists and concerned parties within the framework of "Standards and Norms Committee" • Create a reliable database to make things easier while dealing with standards follow up and control f • Make a study on the impact of the application of projects concerning standards and limits for sectorial waste, on the development and competitiveness of concerned industrial and mining sectors • Organize workshops to discuss the projects concerning standards and limits for sectorial waste with different partners in order to fix these standards which would be agreed upon and adapted to local conditions 	Legislation and standardization	D. Environnement	6
3. Implementing cleaning-up actions in zones which are more damaged	Implementing Action Plan for industrial cleaning-up at the level of Mohammedia-Casablanca line	Urban surroundings 19	<ul style="list-style-type: none"> • Spread audits practice at the level of the line Mohammedia -Casablanca • Organize workshops for increasing public awareness and popularize techniques for pollution control and prevention as well as ISO 14000 • Set up an industrial development plan including the creation of a first class industrial zone within 30 km from Mohammedia-Casablanca region • Assure a follow up-assessment of all the implemented activities • Lead actions related to solid non-toxic waste, which would be taken in charge by local communities • Update, adapt and apply decrees at the level of townships • Lead some actions related to toxic solid waste 	Realization	D. Environnement D. Commerce & Industry	250

6- IMPROVING URBAN AND URBAN-RELATED ENVIRONMENT

6-3 Solid waste

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
Improving management of solid waste	Elaborating plans at the level of prefectures and provinces related to the management of household, medical, industrial, non dangerous and inert waste	Urban surroundings 20	<ul style="list-style-type: none"> • Make a diagnosis of the actual state, result of waste problems in different urban centers and identify priority centers • Elaborate priority plans at the level of prefectures and provinces related to the management of waste • Propose processing, valorizing , recycling or any other actions • Make technical, financial feasibility studies and preliminary ones • Look for national or international financing to implement the different options for solid drainage • élaborer l'étude de faisabilité technique et financière et des études préliminaires • rechercher le financement national ou international pour la concrétisation des différentes options de l'assainissement solide 	Planning	M. Interior D. Environnement	10
	Community actions for recycling and valorizing household waste	Urban surroundings 21	<ul style="list-style-type: none"> • Take in charge families living from outcome of waste informal recycling • Elaborate socio-economic studies related to solid waste recycling • Organize appropriate procedures • Set up, within a participative approach institutional and financial arrangements to put these procedures into effect 	Realization	D. Environnement M. Interior	10
	Speed up the setting up of legal and institutional framework for the management of solid waste	Urban surroundings 22	<ul style="list-style-type: none"> • Prepare a technical study allowing to identify the socio-economic and environmental impact • Speed up adoption of the bill concerning management of waste and their elimination • Promote appropriate institutional framework for a better management of waste 	Legislation and standardization	M. Interior	1,5
Eliminating solid and dangerous waste and reducing associated risks	Elaboration and implementation of national plan for management of dangerous waste including out of date products	Urban surroundings 23	<ul style="list-style-type: none"> • Make an inventory of dangerous waste • Make a diagnosis of dangerous waste management present situation • Create a database concerning dangerous waste (origine, categories, quantity) • Elaborate a national action plan for an ecologically rational management of dangerous waste 	Planning	D. Environnement	4
Valorizing solid waste	Valorization	Urban surroundings 24	<ul style="list-style-type: none"> • Identify products and recycling procedures • Set up within a participative approach, recycling actions • Set up an inciting system to promote ecological industries • Set up a green label 	Increasing public awareness, information and communication	D. Environnement M. Interior	2

6- IMPROVING URBAN AND URBAN-RELATED ENVIRONMENT

6-4 Liquide drainage and sanitation

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
Improving acces to sanitation for urban and urban-related areas	Implementing program for drainage in small centers	Urban surroundings 25	<ul style="list-style-type: none"> • Speed up the implementation of priority programs implemented ONEP • Speed up realization of technical studies on drainage in small centers • Identify institutional and financial arrangements for implementing the program for drainage in small centers 	Realization	ONEP M. Interior	-For the study: 10 million Dhs -For implementation see SDNAL
	Reinforcing liquid drainage and sanitation in urban and related urban centers	Urban surroundings 26	<ul style="list-style-type: none"> • Identify priority centers taking into consideration importance of environmental, social and economic impacts • Realize some diagnosis on the state of different urban centers networks and set up impact of dysfunctionning on physical and humain surroundings • Propose actions for water rehabilitation, extention drainage and purification • Look for national or international financing for networks rehabilitation and implementation of priority purifying systems 	Realization	M. Interior D. Environment	For memory
Improving management of household and industrial worn-out waters	Speeding up elaboration and implementation of mass plans for liquid drainage and sanitation in urban and related urban zones	Urban surroundings 27	<ul style="list-style-type: none"> • Set up the advancing state of master plans being elaborated • Set up and implement a priority program 	Planning	M. Interior	For memory see SDNAL
	Implement appropriate institutional framework for liquid drainage and sanitation	Urban surroundings 28	<ul style="list-style-type: none"> • Make getting on reflection with partners on the question of the institutional framework for the management of liquid drainage 	Reinforcing institutional capacities	M. Interior	-
	Rehabilitating purifying stations for worn-out waters (SDAL)	Urban surroundings 29	<ul style="list-style-type: none"> • Make diagnosis studies for existing purification stations • Formulate measures to be undertaken for rehabilitating non-functional stations • Identify possibilities of re-using water for irrigation • Assure an appropriate training for local technicians and users of purified water 	Realization	M. Interior ONEP	For memory see SDNAL

7- MANAGEMENT AND ENVIRONMENTAL COMMUNICATION

7-1 Environmental management

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
Reinforcing institutional and legal capacities as regard to environmental management	Restructuring CNE	Management 01	<ul style="list-style-type: none"> Review the decree governing CNE to integrate « lasting development » component Create the regional councils for environment (CRE) 	Legislation and standardization	D. Environment	10
	Plan for continuous training in the field of environment for staff in charge of environmental management	Management 02	<ul style="list-style-type: none"> Organize training cycles Create periodicals and newsletters dealing with environment subjects Develop web sites 	Reinforcing institutional capacities	D. Environment	5
	Creating and organizing a pool of agents in charge of controlling contraventions and developing coordination procedures	Management 03	<ul style="list-style-type: none"> Make a diagnosis to analyse the present situation of existing police corps specialized in environment Elaborate a legal text dealing with organization of police specialized in environment Train the staff implicated in controllers corps 	Reinforcing institutional capacities	D. Environment	2
	Creating a data bank, listing all Moroccan experts in the field of environment	Management 04	<ul style="list-style-type: none"> Make an inventory and list national experts in the field of environment Create a database available on internet 	Environmental management	D. Environment	0,5
	Reinforcing national capacities as regard to coordination, negotiations and follow-up of conventions, agreements and cooperation projects in the field of environment	Management 05	<ul style="list-style-type: none"> Make an inventory of all international conventions and agreements linking Morocco to international organizations and friendly countries Set up a system for following-up implementation and respect to conventions 	Reinforcing institutional capacities	D. Environment	1
	Reinforcing capacities of the National Laboratory for Environment	Management 06	<ul style="list-style-type: none"> Create a unit for evaluating noise pollution Create a unit for analyzing toxic and dangerous products and bio test Create an emergency unit for making analysis in case of intervention Reinforcing the laboratory capacities to realize bio supervision of maritime waters and beaches sanitary supervision Renew and maintain scientific material of the National Laboratory Get executives and technicians trained and improved Assure needs in chemical fungible and non-fungible products 	Reinforcing institutional capacities	D. Environment	6

Reinforcing institutional capacities Department of Environment	Elaborating a national strategy as regard to regional and international cooperation in the field of environment	Management 07	<ul style="list-style-type: none"> Make a global study on international financing mechanisms offered by regional and international cooperation in the field of environment as well as analysing international conventions opportunities and stakes 	Planning	D. environment	2
	Integrating and applying Morocco international engagements in the internal legal system	Management 08	<ul style="list-style-type: none"> Lead a study in view of integrating, in internal legislation, conventions clauses on cross-board movements of dangerous waste, climatic changes, protection of ozone layer, biological diversity, and desertification, as well as those related to regional conventions such as Barcelona Convention 	Legislation and standardization	D. environment	1,5
	Extending and reinforcing capacities of legal database	Management 09	<ul style="list-style-type: none"> Make Set up an information and management system for legal and statutory texts related to environment 	Environmental management	D. environment	1
	Setting up a fund for preserving environment	Management 10	<ul style="list-style-type: none"> Make a feasibility study on funds for preserving environment Elaborate appropriate statutory texts 	Legislation and standardization	D. environment	0,7
	Implementing economic and financial instruments for struggle against pollution	Management 11	<ul style="list-style-type: none"> Institutionalize FODEP Identify instruments that can be proposed (taxes, royalties...) 	Reinforcing institutional capacities	D. Industry & Commerce D. environment	1
Improving state of knowledge on environment	Speeding up elaboration and adoption of laws related to environment	Management 12	<ul style="list-style-type: none"> Speed up implementation of already elaborated laws Speed up elaboration of legal concerning themes not yet dealt with (nuclear, noise..) 	Legislation and standardization	D. environment	
	Creating and developing an information network and data on health and environment	Management 13	<ul style="list-style-type: none"> Collect systematically and in a continuous manner data related to health and environment (air, drinking water, vectors) Identify and analyse epidemiological phenomena in time and space Identify and analyze modifications concerning conditions of environment that may have impact on individuals health or on certain groups undergoing a risk Integrate epidemiological sanitary data in the national information and data system on environment in order to make easier exchanging and spreading information 	Follow-up, supervision and observation	M. Health D. environment	10
	Elaborating prospective studies related to interactions between international commerce and environment in Morocco	Management 14	<ul style="list-style-type: none"> Undertake a multi-criteria analysis of a sample from industrial activities categories in order to elaborate a working program and support its implementation to accompany the development of the environmental aspect of the Moroccan producing sector 	Improving state of knowledge	D. Commerce & Industry D. environment	2
	Reinforcing information and data system on environment in Morocco (SIDE)	Management 15	<ul style="list-style-type: none"> Strengthen and reinforce SIDE achievements, recently put into effect at the level of Environment Department Standardize formats and environmental data processing tools Coordinate and centralize environmental informations and data Set up a system of indicators and helping tools for decision-making 	Improving state of knowledge	D. environment	10

7- ENVIRONMENTAL MANAGEMENT AND COMMUNICATION

7-2 Environmental Communication

Target	Action title	Action Code	Content	Category	Institution in charge of implementation	Cost in millions Dhs
1. Reinforce environmental communication and awareness among the large public	Reinforcing cooperation with non governmental organizations	Management 16	<ul style="list-style-type: none"> • Prepare a newsletter inter NGO • Create a database on NGO • Reinforce NGO capacities • Set up a program on financing for the benefit of NGO 	Realization	D. environment	10
	Making a study on population knowledge, attitudes and practices as regard to environment	Management 17	<ul style="list-style-type: none"> • Prepare a study on population knowledge, attitudes and practices as regard to environment • Elaborate recommendations concerning the increase of public awareness about environment 	Improving state of knowledge	D. environment	1
	Informing and increasing awareness of decision-makers, socio-economic operators to environment protection	Management 18	<ul style="list-style-type: none"> • Organize workshops to make decision-makers and socio-economic operators aware of environment protection • Prepare manuals for good practices as regard to management of environment 	Increasing public awareness, information and communication	D. environment	1
	Make the large public aware of environmental issue	Management 19	<ul style="list-style-type: none"> • Realise and spread written mediums for increasing public awareness, including : spots, leaflets, pamphlets • Organize exhibitions and awareness activities for the large public in cooperation with other ministerial departments, local communities • Organize activities for increasing public awareness while celebrating events such as Arab and International day for environment , International day for population, International day for water, International day for struggle against desertification and International day for meteorology 	Increasing public awareness, information and communication	D. environment	20
	Partnership with journalists	Management 20	<ul style="list-style-type: none"> • Organize, in cooperation with concerned journalists, specialized days for information and awareness, debate meetings and common activities for awareness • Create columns dealing with environmental issues in different newspapers 	Realization	D. environment	2
	Partnership with medias	Management 21	<ul style="list-style-type: none"> • Realize and spread documentaries, sketches and messages on different themes for awarening people about environment and its protection • Realize in joint production, radio and TV programs dealing with environment • Reinforce existing programs, having cultural, educational, scientific, economic, technical and entertaining features while integrating the environmental aspect in their composition. 	Increasing public awareness, information and communication	D. environment	40

	Organizing a bi-annual fair on environment	Management 22	<ul style="list-style-type: none"> • Prepare a study on the fair advisability and conception • Set up the necessary means • Realize a communication and awareness campaign • Realize the fair 	Realization	D. environment	4
2. Integrate environmental education in formal and informal teaching programs	Program for children education and awareness as regard to environmental issue	Management 23	<ul style="list-style-type: none"> • Prepare education products for increasing awareness, and mediums for extracurricular education including pedagogical kits, pamphlets, leaflets, tales, cartoons and fairs on varied themes all related to environment issue • Train teachers, holiday camps instructors, and youth club leaders who will transmit what they have acquired from the training on awareness, to young people • Organize and realize activities for awareness and education in public and private schools, holiday camps and youth clubs 	Increasing awareness, information and communication	D. environment	30
	Awarening woman in the framework of programs for struggle against illiteracy	Management 24	<ul style="list-style-type: none"> • Conceive and realize specific mediums for increasing awareness of illiterate women • Organize activities for awarening and demonstration • Train people giving lessons on struggle against illiteracy 	Increasing awareness, information and communication	D. environment	5
	Educational program on environment intended for teachers and educators	Management 25	<ul style="list-style-type: none"> • Produce educational tools for trainers in the field of environment (teachers, environment club leaders) and for population of students in formal teaching system. 	Increasing awareness, information and communication	D. environment	3
	Creating a centre for environmental education	Management 26	<ul style="list-style-type: none"> • Create, together with concerned partners, a centre for popularizing environmental education and provide it with means necessary for its functioning. 	Realization	D. environment	5