Eastern Mediterranean Countries: Problem Identification

Problems and Justification Summary Table Eastern Mediterranean Countries

Problem Identified	Major	Government	Major	Other Projects	Other Donors in	Justification
	Issues	Strategy	Stakeholders	in the Sector	the Sector	Components
 Policy approach: smallholders in the country are not actors of the process (policy and institutional) Causes: Legislative and regulatory discontinuity Lack of fiscal incentives and subsidies Lack of public awareness programs State Industry vs. private industry Effects: Difficulty in engaging in long-term land investment as tree plantations require Unused land/ abandoned land/ land degradation (poor land use planning IWA (Impact Without Actions): Further degradation/ decreased rural development 	Negative issues - Political/economic transition – lack of coherent consistent legal regulatory frameworks - Technically insufficient approach to farming, poplar plantation, cultivation, poplar related initiatives - More restrictive environmental regulations - Low economic level of rural communities - Unsatisfactory public and political awareness	- Poor and uninformed governmental decision process	 Government – public agencies Public forest enterprises Forestry extension services 	 BENWOOD(ap) BIOPROS(ap) NOVELTREE (r&dp) ENERGYPOPL AR(r&dp) PLEN Establishment of clone archives (bilateral Bosnia Herzegovina – <i>Italy</i>) 	 IFAD EU Co-financing public local agencies IBRD Governments EBRD Private foundations INTERREG 	 Align with EU regulations regarding: renewable energy, water waste management, Natura 2000, Kyoto Process, 20/20/20/ climate-energy, Green Danube corridor linking regional collaboration Romania, Bulgaria, Ukraine, Moldova Rural development programs of all the countries in the area Convention on Biodiversity Supporting the transition of production means from public to private environment Supporting a correct legislative drafting process with proper information It is time for drafting or refining medium- and long-term governmental strategies Poplar Commissions
 Lack of Transfer of Knowledge (ToK)/ extension of services. Causes: Poor institutional framework for ToK Insufficient development of a multifunctional approach Tendency to abandon/sell land (poor commitment) Effects: Inefficient utilization of land WA: Further degradation/ decreased rural development 	 Positive issues Improving economic competition Attractiveness to foreign investors Large potentials for forest environmental services Availability of land Large potential of bioremediation 	- No/poor involvement of population and private stakeholders in this process	 Land owners Investors Members of the rural communities Forest and farmers associations Natura 2000 administrations 	•	•	 Creating an enabling environment for private farming sector Avoiding land degradation Need for land inventories and support for ongoing inventories

 Insufficient data about suitability and availability of land Causes: Lack of technical/professional infrastructures Unsatisfactory land use planning Effects: Lack of technical support for policy makers Reduced revenues potential for land owners IWA: Inadequate decisions and strategies 	•	•	 Companies dealing with poplar planting and wood transformation Bio-energy Bio-refineries 	•	•	• Existing Institutions to be able to provide technical support: Forestry Extension Services, Chamber of Foresters and Wood Technologies (Croatia), European Biomass Industry Associations, Romanian Forest Research Institute, International Energy Agency, Romanian State Forest Administration.
 Insufficient collaboration between stakeholders Causes: Lack of communication and info exchange Effects: Conflicts, insufficient fundamental regulations 	•	•	 NGOs Local communities 	•	•	Functioning National Poplar Commissions
 Insufficient reproduction material and technology transfer Causes: Lack of institutional collaboration Change in site conditions Lack of connections between farmers and research institutions Lack of tailor-made approach Effects: Unexploited potential resources Narrow genetic base and adaptability Modest levels of investments IWA: Risks of emvironmental disasters Poor technical implementation of planned poplar plantations Strongly reduced revenues for stakeholders (farmers,) Discontinuity of the supply chain of the products Market / industry poor development 	•	•	 Established market structures Research institutions Education institutions 	•	•	•

Natura 2000 and environmental	•	•	•			
		•	•	•	•	
services/problems	1					
Causes:	1					
Poor knowledge						
New legislation						
 Lack of participatory approach 						
• Exotic <i>vs.</i> native species						
Effects:						
Change of management						
form/approach						
 Need for scientific studies 						
Unnecessarily prescriptive approach						
to tree farmers						
IWA:						
Conflicts with owners	1					
• Difficulties to setup a multifunctional	1					
approach with land users	1					

Logical Framework of Action Summary Table Eastern Mediterranean Countries

Impact	Outcome	Output	Action	Stakeholders	Assumptions	Indicators	Risks
Promotion of effective land use and livelihood improvement trough sustainable P&W management in intensive and/ or natural systems	Increasing the effectiveness of authorities/insti tutions in decision making process regarding P/W production and	Build scientific and technical bases	 Suitability & availability inventories Germplasm selection Reproduction material testing & transfer 	 Public agencies, Government, Extension organizations Land owners, land owners associations 	 Government agencies willing to collaborate Proper Land suitability Agreement by forest owners 	 Available maps, descriptions, database Quality control on data stored in the data base Diversification of reproduction material Degree of 	 Unpredictable regulatory framework Contradictory subsidiary policy to encourage other utilizations of the land Decreasing demand for poplar and willow
	wood utilization	Pilot systems development Tools construction	 Demonstrative plots network (timber, bioenergy, remediation, etc.) Support for landowner & entrepreneurs associations Sustainability assessment BPG development 	 Investors and entrepreneurs Forest management organizations Local communities Poplar and willow end- users Education organizations Research organizations 	 to allow the establishment of demonstrative plots in their land Co-financing possibilities Availability of investment International 	 demonstration plots Representativeness of the demonstration plots Quantification of target groups for the 	 products because of the substitute products No availability for financing possibilities Conflicts in land use Unpredictable changes in energy market Competition in land users and end users Use of reproductive material that is not
		and submission	 Action plans for decision makers Land use planning and management guidelines Material dissemination 		 cooperation for science, policy and economy Availability of proper genetic pools for reproduction material 	 Degree of investments realized or planned Legislation drafting started Degree of acceptance between the stakeholders of the action plans and decision supporting tools 	sufficiently adapted to the changing environmental conditions

Improving the management of natural P/W based stands through transfer of knowledge, innovation and capacity building using	Develop	 Inventories/evaluations of genetic resources of native species vs. site conditions Monitoring systems in place Germplasm collection/selection for native species Ecological reconstruction 	 Public agencies, Governmental institutions, Extension organizations Land owners, land owners 	 Government agencies willing to collaborate Proper Land suitability Agreement by forest owners to allow the 	 Available maps, descriptions, database Quality control on data stored in the data base Diversification of reproduction material Degree of international 	•
using environmentally sustainable and cost-effective tool	demonstrative ecosystem mgmt. schemes Increase public & political awareness Promote social & economic issues	 demonstration plots Establishing biodiversity monitoring systems involving various stakeholders (NGOs, owners etc.) Develop landscape plans through participatory approach Recommendations for regulation framework improvement Production and dissemination of awareness tools Develop PA management plans Enable continuous 	 associations Investors and entrepreneurs Forest management organizations Local communities Poplar and willow end- users Education organizations Research 	 to allow the establishment of demonstrative plots in their land Co-financing possibilities Availability of investment International cooperation for science, policy and 	 international cooperation Surface of demonstration plots Representativeness of the demonstration plots Quantification of target groups for the dissemination campaigns Degree of investments realized or planned Legislation drafting 	
		 Enable continuous communication/contacts with local community Develop a market for social/environmental services of natural/restored ecosystems 	organizations	 economy Availability of proper genetic pools for reproduction material 	 started Degree of acceptance between the stakeholders of the action plans and decision supporting tools 	

Problems and Justification Summary Table Central Asian Countries

Problem Identified	Major	Government	Major Stakeholders	Other Projects in	Other Donors in the	Justification
	Issues	Strategy		the Sector	Sector	Components
• Institutional and systematic issues (there is no uniform system for poplar growing, and conservation of natural poplar forests)	 Infrastructure issues Local community awareness Forest land share Technologies Sorts Location specific sorts 	 State resolutions, Orders of Presidents Akimati are interested in plantations, Kaz. States' policy support these projects 	• Forestry institutions,	 "Poplar development Programme" Uzb., Fund for forest activities, Kyrg. (limited fund) 	 Kyrgyz-Swiss program (past) JICA joint forest management (Kyr) now GEF, WB "Clean development mechanism" project (now) – it includes the component on fast growing species 17 thousand ha poplar plantation yearly (Kyr) "Tyan shan project" contains poplar plantations (Kyr) 	• EU, IFAD
Need for poplar plantations to satisfy need for construction materials and energy	•	•	• Water institutions	•	• UNDP "Conservation agrobiodiversity in Alatau" (Kaz)	•
Water shortage	•	•	Association of farmers	•	•	•
No experience for conservation,Tugai forests	•	•	• State bodies, private sector, agencies, community, NGOs	•	•	•
Weak legislative and regulative system for private ownership of forest cultivation	•	•	•	•	•	•
• Institutional weakness – e.g. under the Ministry of agriculture and water resources (Uzb.)	•	•	•	•	•	•

	No guidance/ structure for the control of poplar plantations in the state program (Taj.)	•	•	•	•	•	•
•	Create legal framework for poplar plantations	•	•	•	•	•	•
	No institution for poplar development	•	•	•	•	•	•
•	Weak financing	•	•	•	•	•	•
•	Technological issues	•	•	•	•	•	•

Logical Framework of Action Summary Table Central Asian Countries

Impact	Outcome	Output	Action	Stakeholders	Assumptions	Indicators	Risks
Assistance to improvement of ecological conditions through a sustainable development of rural communities	1. Improvement of legislative, regulatory and policy	1. Regulatory legal base is developed	 The analysis of existing legislative base Development and approval of necessary regulatory legal acts Development and approval of State Program on cultivation of poplars and willows 	The state bodies, scientific and educational institutes, private sector, civil society		The report, laws, subordinate legislation, the Program	Absence of support of the Government, presence resources (experts, financial, etc.)
		2. Institutional base on poplar and willow cultivation is developed	Studying of the possibility for the development of institutional base Creation of the National Centre on development of poplar and willow landscapes	The authorized state body, scientific institute		The National Center	Отсутствие поддержки Правительства, наличие ресурсы (эксперты, финансовых и др.), межсектариальное взаимодействия Absence of support of the Government, presence resources (experts, financial, etc.), cross- sectoral cooperation
		3. Management plans on poplar and willow plantings are developed for rural communities	 Inventory (account) Database Creation Mapping (use GIS- TECHNOLOGY) Development of management plans 	The state bodies, scientific and educational institutes, private sector, civil society, local communities		Management plans	No performance of management plans, absence of interest of local communities

2. Development of popular and willow for adaptation to climate change, water resources management, bio- energy use	1. Research on perfection system on poplar and willow cultivation	 The analysis and an estimation of existing species of local poplars and willows, as well as the socio-economic conditions of the population Testing of hybrids Development of a technology for creation of nurseries and plantings Creation of demonstration sites 	The state bodies, scientific and educational institutes, private sector, civil society, local communities, the international organizations	The list of specific species of local poplars and willows, local farmers, diversification of planting material (national and international), demonstration sites, recommendations on technologies, collection of poplars	Presence resources (experts, financial, etc.), cross-sectoral cooperation
	2. Provision of the local community with wood	1. Carrying out afforestation, reforestation, agroforestry	The state bodies, scientific and educational institutes, private sector, civil society, local communities, the international organizations	The areas of protective forest, agroforestry, conservation natural forest, etc.	Absence of the research results, insufficient care for forest, insects and illnesses, absence of water, presence resources (experts, financial, etc.)
	3. Increase of rural community employment rate	 Estimation of opportunities for the creation of small mills on wood processing in regions Creation of small mills on wood processing in regions 	The state bodies, scientific and educational institutes, private sector, civil society, local communities, the international organizations	The report, quantity of shops	Presence of resources (experts, financial, etc.)

3. Increase the capacity and the public awareness	 Increase the capacity of stakeholders 2. Increase Public 	 Development of necessary programs and information materials Carrying out of seminars (workshops) in regions (on sites) Exchange of experience, visiting China, Turkey, etc., tours of the international advisers to Central Asian countries Development of the system of introduction of research results in practice Joining to the international network of distribution of the information Participation in the international processes and meetings Development of 	The state bodies, scientific and educational institutes, private sector, civil society, local communities, the international organizations	Programs, information materials, quantity of seminars, quantity of visits to other countries, quantity of the invited experts, the created system of introduction of research results, access to database, quantity of participation at the international meetings	Presence of resources (experts, financial, etc.)
	awareness	 Development of information materials (booklets, brochures, bulletins, etc.) Publications MASS-MEDIA 	scientific and educational institutes, private sector, civil society, local communities, the international organizations	booklets, brochures, bulletins, etc., articles, programs in mass-media	(experts, financial, etc.)

4. Increase cross-	1. Interaction of state,	1. Creation of cross-	The state bodies,	Steering	Absence of interest of the
sectoral cooperation	private, public sectors	sectoral Steering	scientific and	Committee, the	state, private and public
	and the international	Committee	educational	Charter, the Order,	sectors and the international
	organizations		institutes, private	the Programs	organizations
		2. Development of	sector, civil		
		Committee Charter, the	society, local		
		Order, the Programs	communities, the		
			international		
			organizations		

Problems and Justification Summary Table Georgia - Egypt - Turkey

Problem Identified	Major Issues	Government Strategy	Major Stakeholders	Other Projects in the Sector	Other Donors in the Sector	Justification Components
 GEORGIA Establish policy framework Define priority areas suitable for poplar (Georgia has already a forest inventory to be updated) Allocate areas for 	Negative: No coherent forestry policy Insufficient existing legislation Lack of relevant funds Positive: Scientific research	 A process to improve legislation has already started Minister of environmental protection is working on a special document on development of 	 Ministry of Environmental Protection, Forestry Department (General management, including afforestation Georgia State Agrarian University and Forestry Institute (Scientific research work) 	 General projects: A pilot project on giving communal forest to jurisdiction of villagers (funded by GTZ) Afforestation of two degraded areas 	 FAO (Executing Agency) World Bank Agency EU GTZ KFW (France) 	·
Intensive plantations (government) allocate public land to farmers to grow poplar	potential Existing methodology for establishing plantations	 forestry sector in Georgia. It is a preliminary document to policy and it will be sent to Parliament soon The Government is always ready to cooperate on this issues with all stakeholders, local, regional or international 	 Private Companies with wood licenses to harvest that work according to special plans Potential stakeholders, (small owners, farmers) that can be motivated in future to grow poplar and willow 	(funded by WWF)		

Problem Identified	Major Issues	• • •		Other Projects in the Sector	Other Donors in the Sector	Justification Components
EGYPT						
 Wood imports are too expensive as local wood is unavailable Lack of intensive plantations Lack of water resources; Disposing and recycling of sewage water (phyto-remediation) 	Negative: • Existence of limited number of clones • Limited funding resources Positive: • Conservation of environment because of phytoremediation	 Strengthen introduction of new species and clones (already initiated by the Ministry of Agriculture) Raising public awareness about the indirect benefits of planting trees including poplar and willow through the public media Egypt is member of IPC 	 Ministry of Irrigation and water resources (stabilizing banks of the main irrigation channels) Ministry of Agriculture and land reclamation (planting wood lots near sewage plans; introduction of new species and clones) Farmers (planting polar and willow trees for shade and small irrigation channel University of Alexandria Agriculture Research Institute 	 FAO TCP project on Forest Policies Establishment (ended in March 2009) National project: "Sand dune stabilization in Sinai Peninsula" (Ended in 2006) 	 Only potential donors available at the moment: FAO (Executing Agency) World Bank EU Previously: US Aid Canada ITTO Finland France 	

Problem Identified	Major Issues	Government Strategy	Major Stakeholders	Other Projects in the Sector	Other Donors in the Sector	Justification Components
 TURKEY Lack of government support to strengthen poplar cultivation Need for detailed market analysis Need for fibres and bio-energy, capacity building in Short Rotation Crops Inventory of natural and planted poplar Need to strengthen poplar certification from poplar 	Negative • Lack of support to research • Negative public & political perception about planted forests, including P&W • Concerns of water management, hydrology & water protection • Lack of genetic resources for biomass end uses and for poplar clones resistant to dry conditions • Lack of state control on nurseries and plantations Positive • • Good resources of genetic material for industrial wood use • Educated researchers • Existing wide potential areas suitable for poplar growing • Existing skilled and experienced poplar growers • Existing sawmills and plans for processing poplar wood	 Government is conducting a huge afforestation program (2 millions ha in 5 years) however this not includes fast growing species Turkey is member of IPC 	 Ministry of Environment and Forestry (Afforestation/ Reforestation; Nature Protection; Research; Forest Management and Protection) Universities NGOS Smallholders Private Companies 	 The PFGFTRI, Izmit, is carrying the following projects: 2 Projects on poplar breeding A new poplar project to be established on biomass and bio- energy 1Project on salt tolerance of poplar 1 Project on silviculture of poplar 2 Projects on poplar propagation techniques (1 <i>Populus tremula</i> and 1 on <i>Populus nigra</i>) 1 Project on biotechnology 1 Project on comparing nutrient needs of crops and poplar 1 Project to define optimal rotation length of 5 poplar clones in different spacing 	 FAO (Executing Agency) World Bank Agency EU 	

Logical Framework of Action Summary Table Georgia - Egypt - Turkey

Impact	Outcome	Output	Action	Stakeholders	Assumptions	Indicators	Risks
Egypt	. .		• 1.a Training of		• Establishment		• Lack of international
• Ensure environmental sustainability of water resources through the use of Salicaceae and increasing people wellbeing	• Increase wood production, job opportunities and improve environment quality	 1. Capacity building 2. Improve growth and wood quality through genetic resources availability 	rove growth ood quality h genetic ces bility rg scientists with emphasis to young researchers (including study tours, fellowships). Training of workers and administrative staff voure staff	 Water Resources (stabilizing banks of the main irrigation channels) Ministry of Agriculture and Land Reclamation (planting wood lots near sewage plans; introduction of new species and clones) Farmers (planting polar 	of good protocols for plantations for phyto- remediation • Field staff well trained • Exchange of technical and scientific information	 Reduction of both polluted water and soils Increasing of rate of survival and growth rate Increasing of wood availability Increasing of farmers income Improving of scientific knowledge 	 financial support Lack of Government interest Lack of land owners interest
		 3. Improve field work activities 4. Control water erosion and reduce land contamination 	 3.a Establishment of trials and carrying experiments to adapt the new species and clones to the local conditions 4.a Establishing poplar woodlots and willow plantations 	channel • University of Alexandria • Agriculture Research Institute			

Impact	Outcome	Output	Action	Stakeholders	Assumptions	Indicators	Risks
		• 5 Raising of public awareness	 4.b Conducting water, soil and biomass analysis 5.a Extension Services 5.b Use of public media 				
Georgia		1.D.	1 D C				
Achieving sustainable livelihood and people wellbeing through poplar	• Increasing state and private sector wood industries and development of smallholders economy	• 1. Review environmental and forestry policies	• 1.a Reform forestry legislation	Ministry of Environmental Protection and Natural Resources	Policy and legislation framework well established	 Government is submitting a new forest law Farmers are planting poplars 	 Lack of international financial support Lack of Government interest Destabilization of the
and willow culture	• 2. More effective inventory and monitoring	 2.a Strengthen forest inventory activities 2.b Define suitable plantation areas for farmers near villages 2.c Define 	 Ministry of Agriculture Private wood industries Smallholders (locals) Research institutions 	 Selection of proper areas for agro- forestry Establishment of good protocols for plantations 	and willows	area	
		• 3. Country capacity	 2.c Define priority areas for intensive plantations 3.a Extension 		 Research and field staff well trained Stable political conditions 		
		building	activities for trainers and farmers				
		• 4. Qualification of scientists and technicians	4.a Training of both scientists and technicians with emphasis to young people (including study tours, fellowships).				
		• 5 Establishment of agroforestry plantations	 5.1 Selection of poplar and willows species and clones 5.2 Establishing nurseries 				
			• 5.2 Establishing				

Impact	Outcome	Output	Action	Stakeholders	Assumptions	Indicators	Risks
Turkey			 5.4 Establish pilot smallholders plantations 5.5 Establish poplar/willow plantations in smallholder farms 				
Contribution of forestry and agro- forestry to sustainable development	Increasing poplar and willow culture and use	 1. New poplar and willow clones 2. Increase wood production and carbon sequestration capacity 	 1.a Establishing clone trials 1.bTesting the end-use of new poplar and willow clones 1.c Establishing germ-plasm collections 1.d Establishing new nurseries 2.a Assessment of the natural and planted poplar and willow area 2.b Assessment of potential afforestation and restoration areas 2.c Establishing poplar and willow glantation areas 2.d Establishing of poplar and willow agroforestry systems 2.e Field survey of lands, pest and diseases 2.f Certification activities 	 Ministry of Environment and Forestry NGOs Smallholders Private Companies End users Research Institutions Universities International institutions 	 Increased availability for new clones Increase willingness of smallholders Land availability 	 Size of allocated areas for plantations Income per household Increase of yield/ha 	 Lack of funds Unwillingness of smallholders Decreasing of governmental support

Impact	Outcome	Output	Action	Stakeholders	Assumptions	Indicators	Risks
			 2.g Training for farmers 2.h New regulations for farmers 				
		• 3. Strengthening international collaboration	 3.a Organize international meetings on poplar culture 3.b Exchange of expertise 3.c Harmonize methodologies and techniques 				
		• 4. Qualification of young scientist	• 4.1 Training courses				