2.2 Specific project ideas

2.2.1 Project idea for agro forestry and radical terraces:

Table 7: Detailed project idea for agro forestry and radical terraces

Name of	Integration of agro forestry and radical terraces in highland provinces of
Project idea	Rwanda
Introduction	Agro-forestry is used in almost the whole world where agriculture is practiced.
	In Rwanda, it is practiced in the agriculture zones which are found in all the
	provinces. Crops can be grown together at the same time, in rotation, or in
	separate plots when materials from one are used to benefit another. Agro-
	forestry systems take advantage of trees for many functions: to hold the soil; to
	increase fertility through nitrogen fixation, or through bringing minerals from
	deep in the soil and depositing them by leaf-fall; and to provide shade,
	construction materials, foods and fuel.
	Radical terracing refers to a technique of landscaping a piece of sloped land
	into a series of successively receding flat surfaces or platforms, which
	resemble steps, for the purpose of more effective farming. This type of
	landscaping, therefore, is called terracing. Graduated terrace steps are
	commonly used to farm on hilly or mountainous terrain. Terraced fields
	decrease erosion and surface runoff retaining soil nutrients. Their
	environmental benefits and adaptation potential include: Soil erosion control,
	soil moisture improvement and maintenance, soil fertility improvement and
	maintenance, arable land (surface) increment, biodiversity conservation and
	natural hazards (land slide) prevention (MINAGRI, 2009).
	This project idea aims at promoting efficient land management by combining
	two selected adaptation technology options known to complement each
	another
Objectives	Increase climate resilience through transfer and diffusion of selected
	adaptation technology options
Outputs	At the end of the project there should be:

	Agro forestry species planted on a 30000 ha of new and existing radical
	terraces
	2. New 10000 ha Radical terraces are prepared
Relationship to the	This project comes to reinforce already existing government efforts of making
country's sustainable	Rwanda a food secure country while keeping the environment safe
development priorities	
Project Deliverables	1. Demonstration sites combining the two technologies shall be established in
	each district of the northern ,western provinces and selected district of the
	southern province
	2. Agro forestry tree species nursery shall be installed in each district of the
	northern, western provinces and selected district of the southern province
Project Scope	This project will be limited to the northern, western province and the southern
	provinces
Project activities	1. Organize and direct training sessions for agro extension agents
	2. Installation of demonstration sites
	3. Organize and direct farmers study tours
	4. Production of seedlings
Timeline	5 years
Budget (USD)	The budget for activity number one which consists of organizing and directing
	training sessions for agro extension agents in all the district of the country is
	estimated at 100 000USD
	The installation of at least 12 demonstration sites in districts of the Northern
	and the Western provinces would cost 850 000USD.
	Organizing and directing study tours for selected farmers is expected to cost
	200 000USD while the production of seedlings is expected to cost 350
	000USD.
Measurement/evaluati	One demonstration site is available per district for all the 12 districts of the
on	northern and western provinces as well as selected district of the southern
	province
Possible	Policy limitations: There is neither specific policy nor strategy on land
complications/challen	husbandry techniques as well as agro forestry development.

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ges	Limited funds are allocated to the development of these technologies.
	Limited expertise/human resources:
	There exist gaps of knowledge on agro forestry systems among agriculture
	extension agents who are in regular contacts with farmers.
Responsibilities	Ministry of Agriculture shall provide policy guidelines and technical
Coordination	assistance for the diffusion and transfer of the technology.
	Ministry of Natural Resources shall provide guidance and framework in
	which the technologies are transferred and diffused and assist in mobilizing
	and managing needed funds.
	The Ministry of Local Governance in collaboration with local governance
	entities, farmers' associations/cooperatives and NGOs shall mobilize local
	stakeholders.
	Communities will implement the technologies and apply them efficiently