




**GOVERNMENT - UN JOINT PROGRAMME
FOR SUSTAINABLE CHARCOAL
REDUCTION AND ALTERNATIVE
LIVELIHOODS (PROSCAL)**

Ministry of Livestock, Forest & Range, Ministry of Energy & Water, Ministry of Petroleum & Minerals, Office of the Prime Minister, Ministries of Agriculture & Fisheries, Ministry of Internal Security, MOPIC, Member States, UNDP, UNEP, FAO




Why Charcoal Business expanded from year 2000 onwards?

- ❑ Limited Livelihoods Opportunities
- ❑ Ban on livestock exports due to outbreak of Rift Valley Fever
- ❑ Enforcement institutions non-existent
- ❑ Outstripping demand from the gulf countries and well connected individuals managing the illegal trade
- ❑ Weakening of traditional decision making systems
- ❑ Repeated natural disasters and prolonged conflicts
- ❑ No other source of energy to meet the basic needs



Need for the Programme

- Unsustainable Charcoal production and trade is major contributor to instability & conflict, environmental destruction, increased incidence of poverty, shrinking livelihoods opportunities for Somali men and women, frequent recurrence of severe humanitarian crisis (droughts, floods) and internal displacements
- 250,000 MT (9-10 million sacks of charcoal exported during 2011)
- 62,500 MT used in Somalia

Programme Strategy 1/2

Tackle both the Demand and Supply Side of the Charcoal Value Chain by:

- ✓ Capacity building across region to implement a mutually adopted charcoal reduction agreement that respond to Security Council Resolution 2036(2012)
- ✓ Setting policy & legal framework at national level
- ✓ Capacity building of government institutions and local communities for monitoring and enforcement of policy and legal instruments

Programme Strategy 2/2

- ✓ Conflict sensitive programming that considers the needs of vulnerable groups (women, youth and IDPs) involved in the charcoal value chain
- ✓ Ensure high level of ownership by national and international partners
- ✓ Demonstrate best practices for technology diffusion to promote alternative sources of energy
- ✓ Demonstrate best practices for alternative livelihoods for the charcoal value chain beneficiaries

Programme Objectives

- ▣ Four major objectives:
 - Enhance regional cooperation and capacity building for monitoring and enforcement
 - Focus on enhancing energy efficiency in charcoal production/use and introduce alternative sources of energy to reduce local demand
 - Provide alternative sources of livelihoods for the charcoal value chain beneficiaries, particularly, vulnerable groups, IDPs, women, youth
 - Reforestation and afforestation throughout the country

Programme Components

- Capacity Building and Regional Cooperation
- Development of Alternative Energy Sources
- Alternative Livelihoods for Charcoal Value Chain Beneficiaries
- Awareness Raising



Outputs Component 1: Capacity Building and Regional Cooperation

- Regional Charcoal Policy Framework and legally binding instrument
- Rules of business for reducing charcoal production at district and national levels
- Monitoring systems of charcoal production, reporting and movement
- Enabling policies on energy, forestry and natural resources management
- International charcoal trade regulatory committee
- Awareness raising on charcoal, environment and livelihoods
- Charcoal Reduction Fund for financial sustainability

Outputs Component 2: Alternative Energy Sources

- Accelerated Diffusion of fuel efficient cook stoves for reduction in charcoal consumption
- Sustainable and efficient production of charcoal (green charcoal) for local consumption
- Energy plantations to meet local demand of charcoal
- Liquefied Petroleum Gas (LPG) market and accelerated diffusion of LPG in main urban centers
- Develop solar energy market for solar cook stoves and water heating in large facilities (hotels, prisons, hospitals etc.)
- Biogas in locations with sufficient quantities of biodegradable feedstock (slaughter houses etc.)

Outputs Component 3: Alternative Livelihoods for Charcoal Value Chain Beneficiaries (CVCBs)

- Strengthen traditional decision-making structures in drafting and implementation of Community Action Plans for natural resources management
- Diversify income and asset building options for vulnerable households towards more sustainable livelihoods options
- Reforestation and rehabilitation of degraded ecosystems
- Improved local and export oriented value chains in agriculture, horticulture, poultry, livestock and fisheries for charcoal value chain stakeholders

Proposed Implementation Modality 1/2

- Programme Steering Committee (PSC) - Chaired by the Minister of Livestock, Forest & Range and UN Resident Coordinator
- Role of PSC to provide policy guidance; support linkages with regional countries; allocation of resources; endorsement of programme plans
- Lead Ministry of the programme and UN Agencies coordinate with relevant government ministries for smooth implementation of the programme
- Participating UN Agencies to implement the relevant programme components; raise programme funds jointly with the government; recommend priority areas of work to the PSC
- Government and UN prepare regular progress reports on the programme achievements, lessons and constraints for the PSC and donor partners

Proposed Implementation Modality 2/2

Strategic Guidance, Coordination and Implementation Responsibilities:

Component	Strategic Guidance and Coordination	Implementation
Capacity Building and Regional Cooperation	For the UN: UNEP For the Government: Ministry of Livestock, Forest and Range, Ministry of Planning & International Cooperation, Ministry of Internal Security, Member States and other relevant line ministers	UNEP; UNDP; FAO; UNIDO; UNESCO; UNCTAD; IGAD; GCC; IMO; UNPOS Ministry of Livestock, Forest and Range, Ministry of Internal Security, Ministry of Planning, office of the Prime Minister
Alternative Energy / Energy Efficiency	For the UN: UNDP For the Government: Ministry of Energy and Water Resources, Ministry of Petroleum and Minerals, Member States	UNDP; UNEP; FAO; UNIDO; UNESCO; Ministry of Energy and Water Resources; Ministry of Petroleum & Minerals; NGOs/CBOs
Alternative Livelihoods for CVCBs	For the UN: FAO For the Government: Ministry of Livestock & Forestry, Ministry of Agriculture & Ministry of Fisheries, Member States	FAO; UNDP; UNEP; UNIDO; UNESCO; Ministries of Livestock and Forestry; NGOs/CBOs

THANK YOU



Food and Agriculture
Organization of the
United Nations



Somalia Water and Land Information Management
(SWALIM) Project



EUROPEAN COMMISSION



UNIVERSITY OF TWENTE



USAID
FROM THE AMERICAN PEOPLE

Semi-automatic Detection of Charcoal Production Sites

PROSCAL Steering Committee

Mogadishu, 13 October 2016



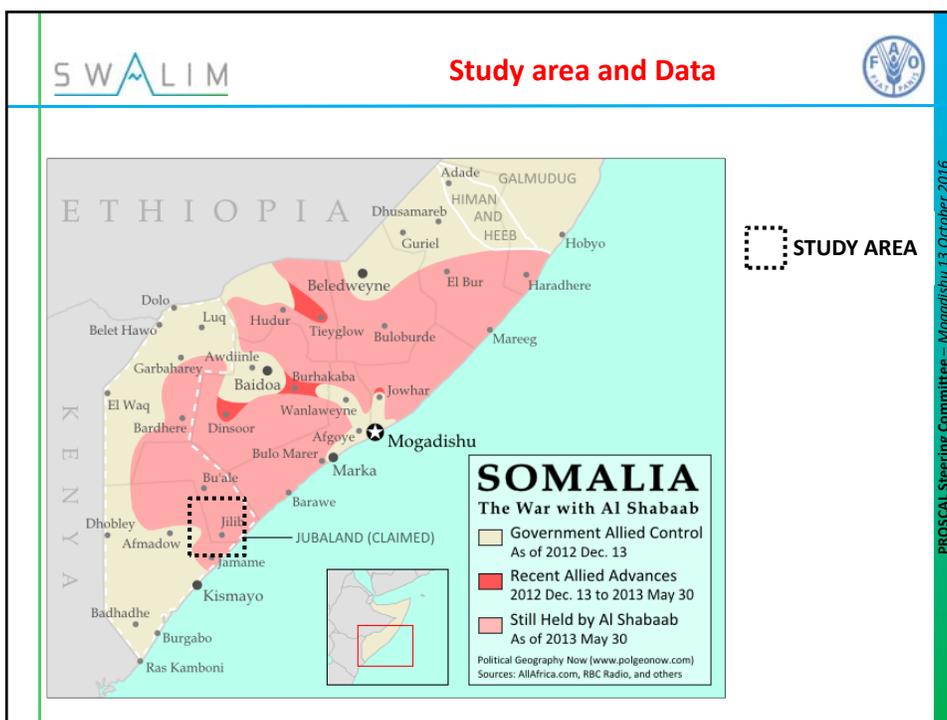
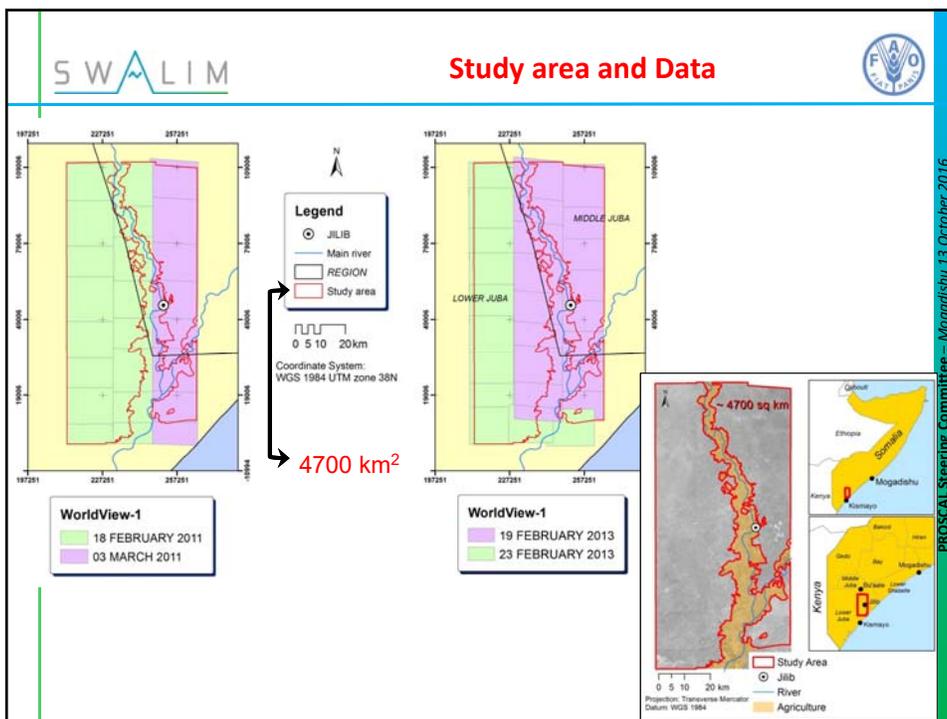
Overview



- In March 2014 **SWALIM** prepared a study jointly with **JRC-EC** and **Twente University** (The Netherlands).
- The study covers an **unprecedented area (4.700 sqkm)**.
- Two sets of **very high resolution satellite images** were used to identify charcoal production sites in two dates (2011-2013).
- A semi-automatic procedure to detect charcoal production sites was put in place, allowing to derive updated figures on charcoal production of the study area.




PROSCAL Steering Committee – Mogadishu 13 October 2016



How to detect charcoal production sites?

SWALIM

Panchromatic WorldView-1
19 February 2013

0 125 250 500 Meters

FAO

13 October 2016

Example of Object Based Image Analysis results

SWALIM

~0.7 km²

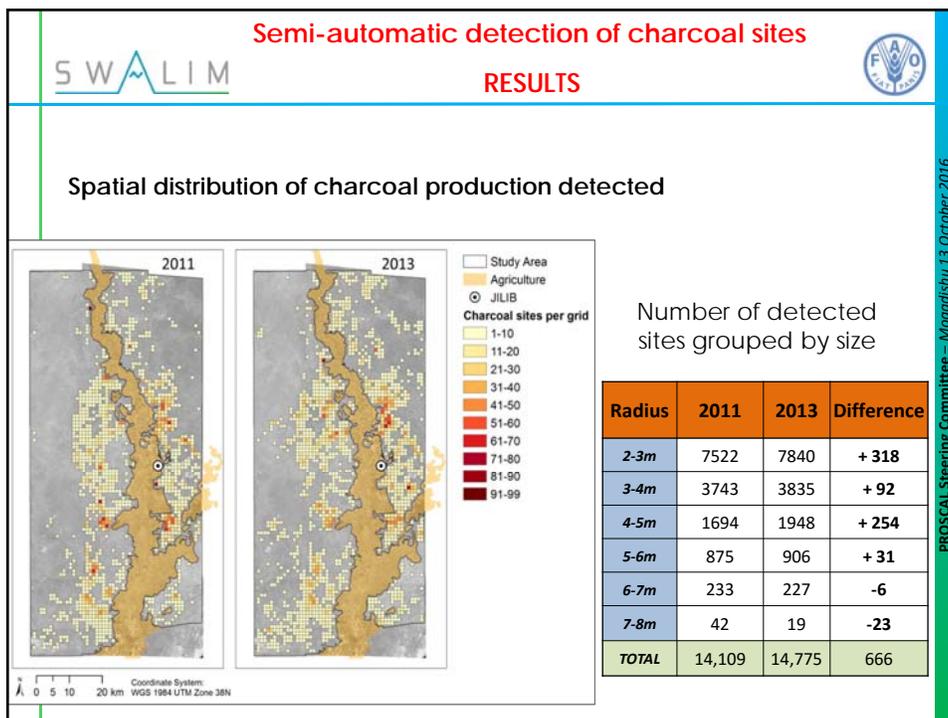
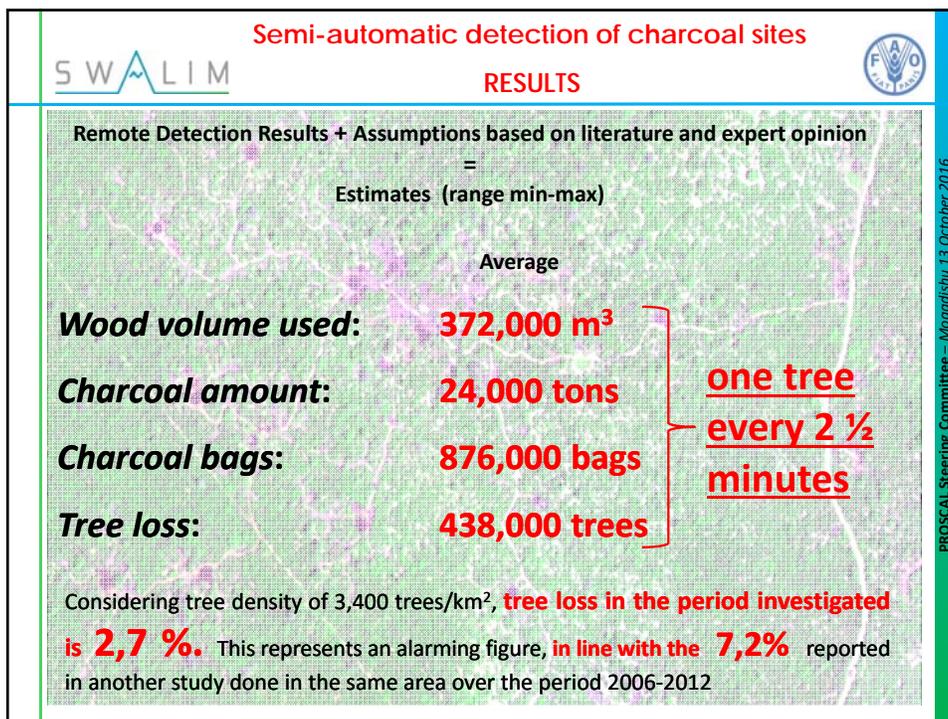
Charcoal sites as they appear on the images

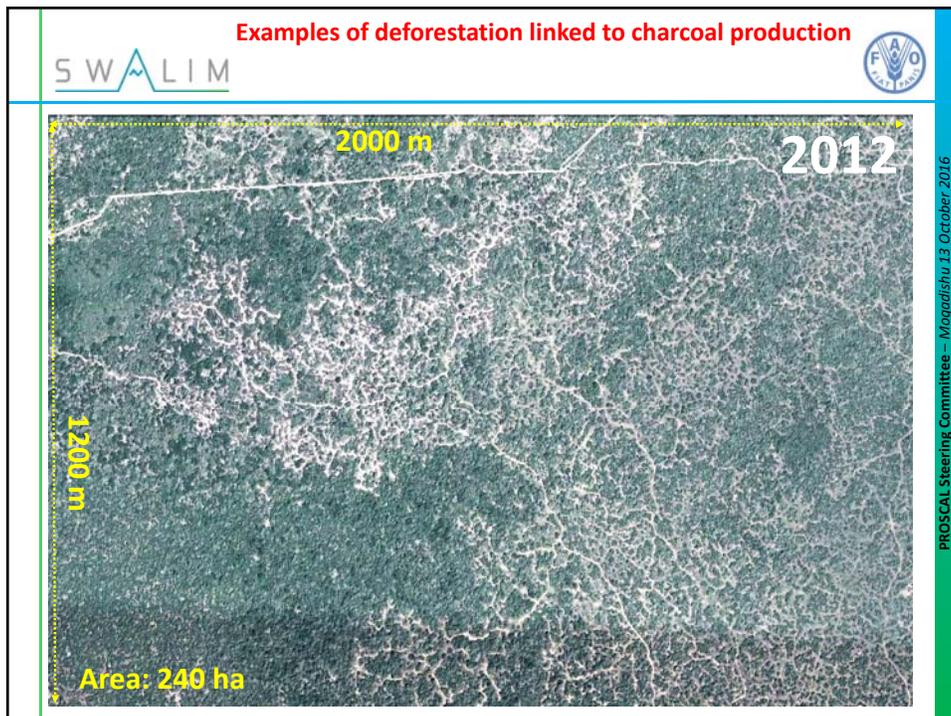
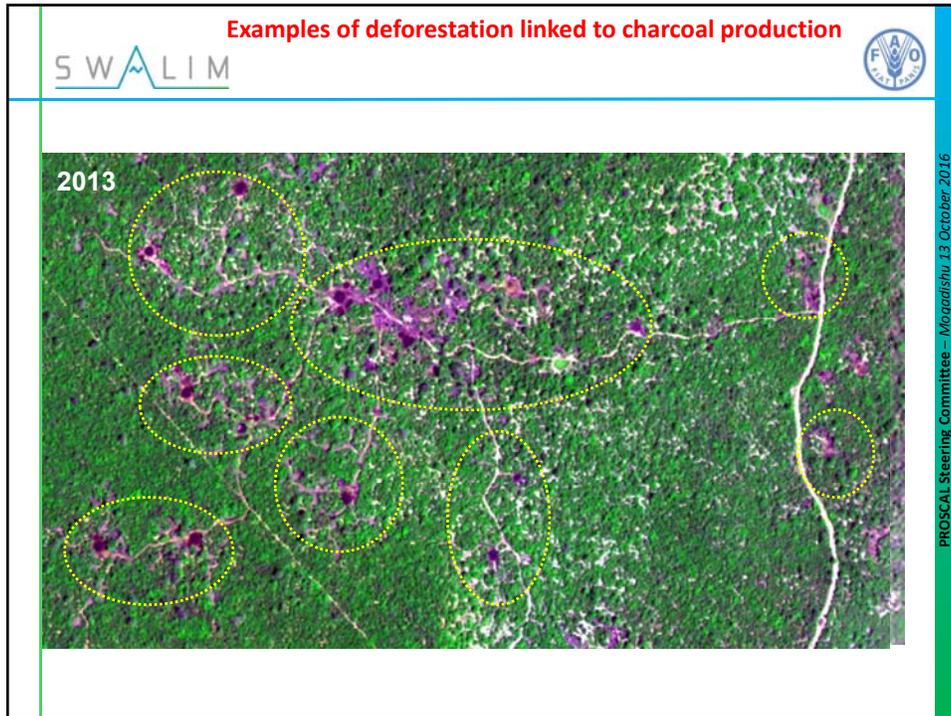
Charcoal Production Sites
Radius size

- 3-4m
- 4-5m
- 5-6m
- 6-7m
- 7-8m
- 8-9m

FAO

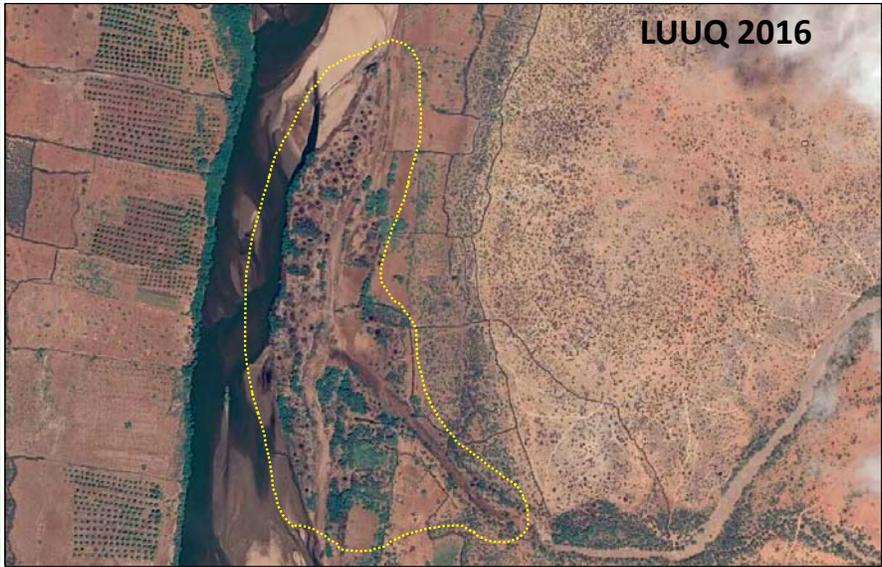
13 October 2016





SWALIM

Examples of deforestation linked to charcoal production
It is currently going on!



LUUQ 2016

PROSCAL Steering Committee – Magadishu 13 October 2016

SWALIM

THANK YOU!

Questions, Comments?

swalim@fao.org
www.faoswalim.org

UGO LEONARDI
FAO Remote Sensing Specialist
Team Leader of SWALIM Remote Sensing Unit
ugo.leonardi@fao.org

PROSCAL Steering Committee – Magadishu 13 October 2016

SWALIM		Funding allocation for FAO activities according to each PROSCAL PROGRAMME COMPONENT			FAO	
		Output	Key Activities	Total [USD]	Additional funds [USD]	
COMPONENT I - Capacity Building and Regional Cooperation	Output 1.1. Regional Charcoal Policy Framework and Legally Binding Instrument, within the concept of international policy on Charcoal National Promulgation and Rules of Business for Reducing Charcoal Production					
	Output 1.2. Monitoring Systems of Charcoal Production, Reporting and Movement in Somalia	Baseline data collection; Training in data collection and analysis; Monitoring of charcoal production sites with RS/GIS; Monitoring tool development; Charcoal Monitoring Task Forces establishment.	2 085 000	100 000		
	Output 1.3. Support to the development of enabling policies on Energy, Forestry and Natural Resources Management	Establishment of a Policy Development Coordination Committee and specialized technical units; on-the-job training and workshops; production and dissemination of	200 000			
Strategic guidance and coordination responsibilities For the UN: • UNEP For the Government: • MOLFR, MFA, MIN, MOEW, Environment Directorate, OPM.	Output 1.4. Establishment of ICTRC at the regional level to restrict charcoal trade and promote regional cooperation					
	Output 1.5. Improved awareness about environmental degradation and loss of livelihoods in Somalia due to charcoal trade					
	Output 1.6. Capacity building of Communities and Local Government Institutions operational in Charcoal Production Districts for enforcement					
	Output 1.7. Development of CRF and revenue regime for CRF					
	Sub-Total:			2 285 000	100 000	
				Gran tot. 2 385 000		

PROSCAL Steering Committee – Mogadishu 13 October 2016

SWALIM		Funding allocation for FAO activities according to each PROSCAL PROGRAMME COMPONENT			FAO	
		Output	Key Activities	Total [USD]	Additional funds [USD]	
COMPONENT II - Development of Alternative Energy Sources	Output 2.1. Accelerated diffusion of efficient cook stoves for reducing charcoal consumption					
	Output 2.2. Sustainable and Efficient Production of Charcoal for Local Consumption					
	Output 2.3. Establishment of energy plantations for sustained supply of fuel wood and charcoal for local consumption	Survey for environmental and socio-economic baseline; Training in silviculture; Establishment of tree nurseries; development of plantation management plans; distribution of seeds, tools etc.	1 040 000			
Strategic guidance and coordination responsibilities For the UN: • UNDP For the Government: • MIN, MOLFR, MOEW, Environment Directorate, OPM.	Output 2.4. Development of LPG market and its accelerated diffusion to reduce local charcoal consumption					
	Output 2.5. Development of solar energy market and accelerated diffusion of solar energy equipment to reduce local charcoal consumption					
	Output 2.6. Biogas as an alternative source of energy in areas with heavy loads of biodegradable feedstock					
	Sub-Total:			1 040 000		
				Gran tot. 1 040 000		

PROSCAL Steering Committee – Mogadishu 13 October 2016

 Funding allocation for FAO activities according to each PROSCAL PROGRAMME COMPONENT 				
Output	Key Activities	Total [USD]	Additional funds [USD]	
COMPONENT III - Alternative Livelihoods for CVCBs <i>Strategic guidance and coordination responsibilities.</i> For the UN: • FAO For the Government: • MOLFR, Environment Directorate, OPM, MOA	Output 3.1. Support for existing CBOs and traditional decision-making structures in drafting CAPs to strengthen Natural Resources Management	Strengthening of traditional decision-making structures; Training; Support the formulating of CAPs	2 000 000	
	Output 3.2. Diversification of income and asset building for vulnerable households in order to facilitate transition to more resilient and sustainable livelihoods	Baseline assessment of existing livelihood strategies; Trainings; Formation of micro-enterprise schemes for livelihood diversification; Provision of high quality seeds; Construction and rehabilitation of productive assets.	3 000 000	400 000
	Output 3.3. Reforestation and rehabilitation of degraded ecosystems for environmental conservation and sustainable production of food, fuel and fodder	Baseline survey; Establishment of tree nurseries; Distribution of tools; Training; Planting of appropriate species; Construct soil and water conservation structures; Public awareness on environmental conservation; claim carbon credits.	3 000 000	
	Output 3.4. Improved local and export-oriented value chains in agriculture, horticulture, poultry, livestock and fisheries in target communities.	Analysis of potential internal and external markets; Establish certification and control systems; formation of new commercially oriented organizations; Development of small- and medium-scale business models; Create/strengthen Commodity Boards; Organization of trade fairs	2 000 000	
Sub-Total:			10 000 000	400 000
			Gran tot. 10 400 000	

PROSCAL Steering Committee – Mogadishu 13 October 2016

Annex III

Programme for Sustainable Charcoal Reduction and Alternative Livelihoods

Update on Activities under Programme Initiation Phase

Capacity Development of Ministry of Livestock, Forest and Range to Coordinate inter-ministerial actions for Reducing Charcoal Production

Activity	Update
National expertise to coordinate and implement inter-ministerial actions housed in the Ministry	National Expertise housed in the Ministry (4 Technical Staff; 1 Support Staff and 1 Intern)
Office Facilities and Mobility Support to the Ministry	List of Office Equipment and Furniture being finalised by the Ministry for Procurement; 1 Vehicle procured
Coordination meetings and workshops	First Programme Steering Committee meeting held; Meetings with donors held in Mogadishu and Nairobi
First meeting of International Charcoal Trade Regulatory Committee (ICTRC)	The Committee to be notified and first meeting will be held alongside International Conference

Draft National and Regional Policy for Reducing Charcoal Production, Trade and Use

Activity	Update
Collate national and international information on similar policies	International and national experts under recruitment to facilitate the formulation of draft policy
Establish national committee with secretariat support to develop the national and regional policy	Committee to be notified by November 2016
Draft National and Regional Policy with Action Plan	International and national experts under recruitment to facilitate the formulation of draft Policy and Action Plan

National and International Stakeholders Mobilised to Support Programme Objectives

Activity	Update
International Conference for building alliances to curb unsustainable charcoal trade, production and use in Somalia	Conference Note prepared; TORs for the Event Management Company Finalised; Qatar has expressed interest to host the event; Conference to be held after the elections
Awareness raising workshops in main cities and towns	Three workshops held – one each in Puntland, Galmudug and South West State
Develop Programme Brochure, website as part of anti-charcoal campaign	Communications material to be developed by December 2016
Resources mobilization for the full-scale joint programme	Programme presented to potential donors, including, Sweden, Italy, Japan, Norway, EU, USAID, Qatar, UAE, Saudi Arabia and African Development Bank.



Group Photo; From Left ,Mohamed Ahmed of Baidoa University, Abdulkani Barrow (PROSCAL), Mohamed Abdulle (Environmental Committee chair person , SWS parliament), Jeylani Mayow (Minister of Labor, SWS), Mohamed Abdulkadir (Deputy Minister of Livestock, SWS), Abdirashid Sheikh Ahmed (Deputy minister of Water and Mineral Resources, SWS)





Coordinator of charcoal Reduction Programme, Director of Forestry and Range, Galmudug Minister of Environment, Speaker of Galmudug Parliament, Galmudug Minister of Water and Energy and Galmudug Minister of Women Affairs

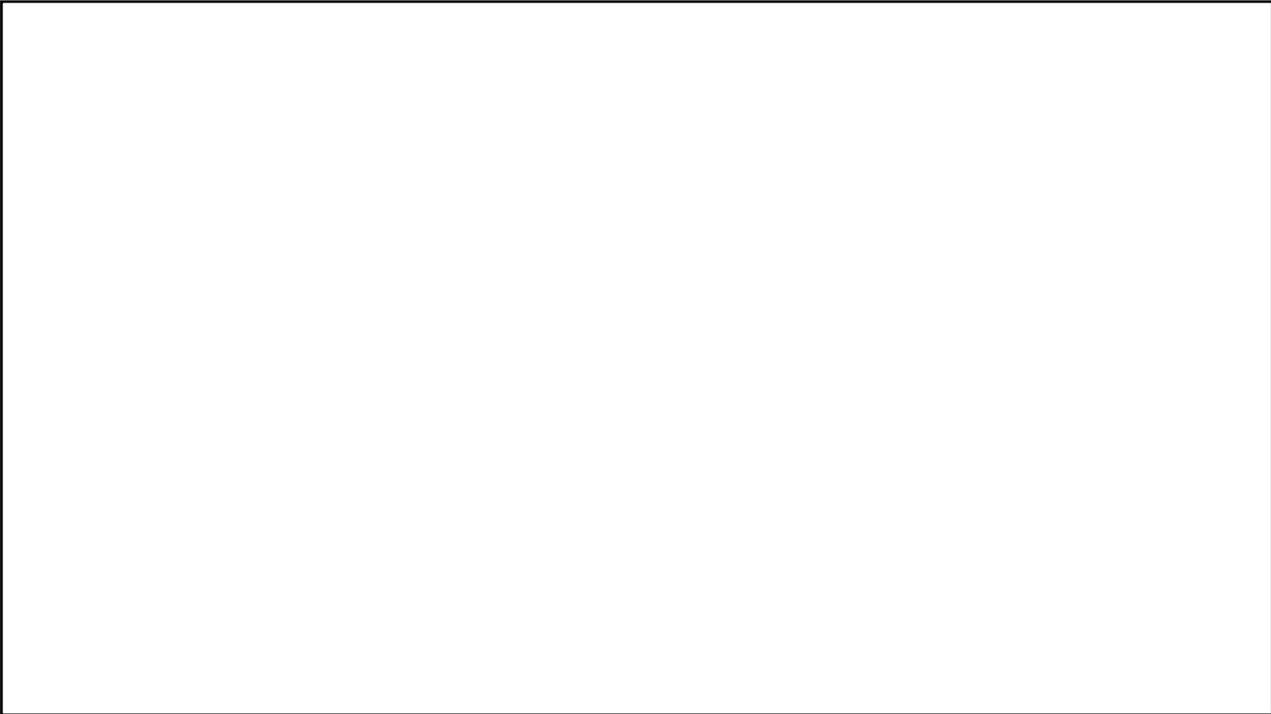






Programme Management

Activity	Update
Recruit programme management staff before the end of programme initiation phase	Programme Management Staff to be recruited after the approval of revised Programme Document by the Steering Committee
Detailed work plan prepared, approved and aligned with available budget	Part of the Revised Programme Document



Annex IV

Budget by Components and Outputs 1/3

Outputs	Budget (USD)
Component 1: Capacity Building and Regional Cooperation	
MOLFR and NRM/Environment Ministries in Member States Supported to coordinate and implement inter-ministerial actions for Reducing Charcoal Production, Trade and Use	565,000
Monitoring Systems Established and Strengthened to record Charcoal Production and Movement	100,000
Draft National and Regional Policy for Reducing Charcoal Production, Trade and Use	100,000
National and International Stakeholders Mobilised to Support the Programme Objectives	398,334
Total (Component 1)	1,163,334

Budget by Components and Outputs 2/3

Outputs	Budget (USD)
Component 2: Alternative Energy and Energy Efficiency for the Substitution of Charcoal	
Accelerated Diffusion of Efficient Cook-Stoves for reducing Charcoal Consumption	170,000
Sustainable and Efficient Production of Charcoal for Local Consumption	150,000
LPG Market developed for its accelerated Diffusion to replace Local Charcoal Production	70,000
Biogas introduced as an alternative source of energy in areas with heavy loads of biodegradable feedstock	180,000
Total (Component 2)	570,000

Budget by Components and Outputs 3/3

Outputs	Budget (USD)
Component 3: Alternative and Sustainable Livelihoods for Charcoal Value Chain Beneficiaries (CVCBs)	
Diversification of income and asset building for vulnerable households in order to facilitate transition to more resilient and sustainable livelihoods	400,000
Total (Component 3)	400,000
Component 4: Programme Management	
Programme Management	210,000
TOTAL (Components 1 to 4)	2,343,334