

# **REDD Readiness – Ethiopia**

**Environmental Protection Authority Of Ethiopia REDD Secretariat** 

Paper Presented at FCPF PC8 Meeting March 24-25, 2011



- 1 Organize and consult
  - 1a National readiness management arrangements
  - 1 Stakeholder consultation and participation
- Prepare the REDD strategy
  - 2a Assessment of Land use, forest policy and governance
  - 2b REDD Strategy options
  - 20 Implementation framework
  - 2d Social and environmental impact
- 3 Develop a reference scenario
- 4 Design a monitoring system
- 5 Schedule and budget
- 6 Develop a program monitoring and implementation framework

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# R-PP Ethiopia Purpose and Structure of the REDD Process

### Phase I

Readiness Proposal Preparation

One year

#### **Key outputs:**

- Plan/TOR and situational analysis developed through stakeholder consultation.
- The process road map for the REDD+ readiness phase lays out activities, methods and responsibilities identified for each component in the subsequent REDD readiness phase.

# Ethiopian Environmental Protection Authority

### Phase II

# REDD Readiness Phase

(getting Ethiopia prepared for REDD implementation)

### Phase III

REDD Implementation

#### Approximately 3 years

#### **Key outputs:**

All elements in place.

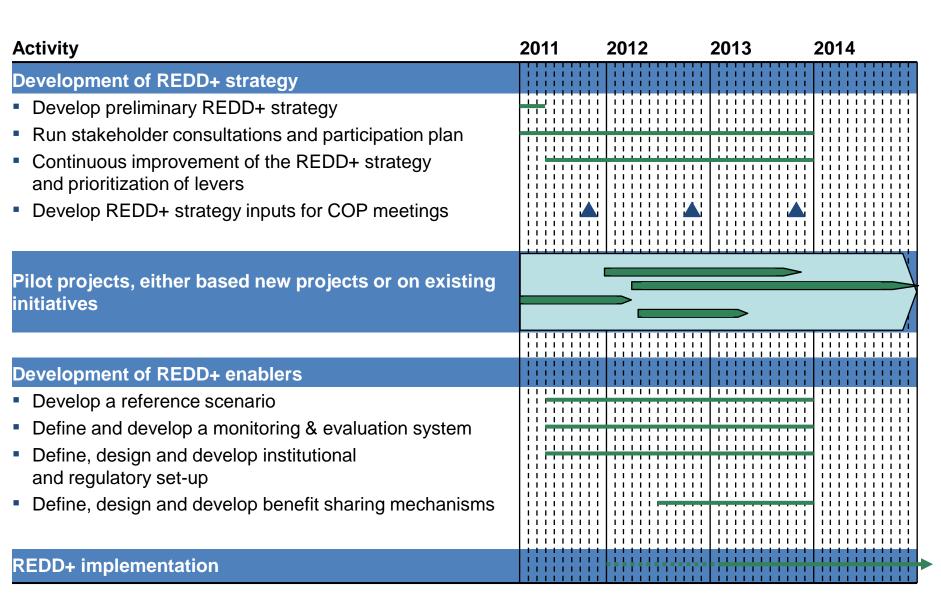
- Awareness raised on REDD+
- Individual and institutional capacity built to support REDD+
- Participation enhanced in decision making and action
- More in-depth analysis of REDD+ issues
- Field tested REDD+ supported experimental strategies/pilots to address deforestation and degradation.
- The enabling environment in place including appropriate institutions and policies.
- Just and effective benefit-sharing mechanisms.
- Reference scenario of carbon stock
- REDD+ monitoring and evaluation systems, etc.

### Open-ended

#### **Key outputs:**

- All the capacity in terms of skills, institutions and a conducive, enabling environment is in place to implement REDD+ at a national scale.
- Effective and efficient strategies to address deforestation and forest degradation rolled out.
- Effective M and E systems and environmental and social impact systems in place to monitor progress and ensure continuous 'health check' of REDD+ support, with remedies developed and administered when problems detected.

## **Timeline of the REDD+ Preparation of Ethiopia**

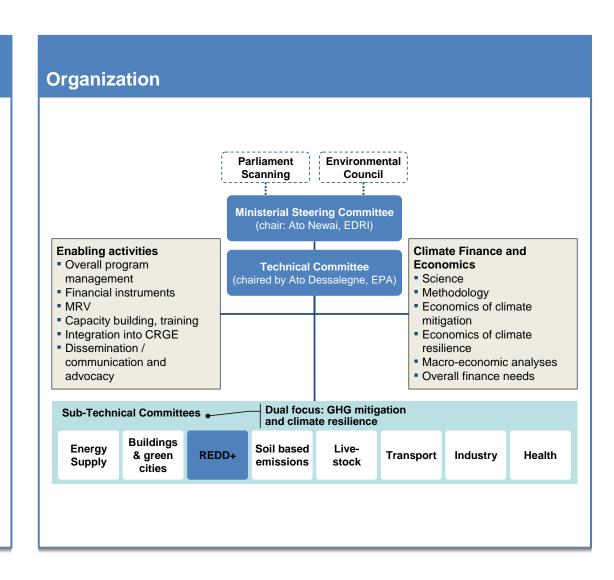


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# The REDD initiative is part of a broad effort to build a Climate Resilient Green Economy in Ethiopia

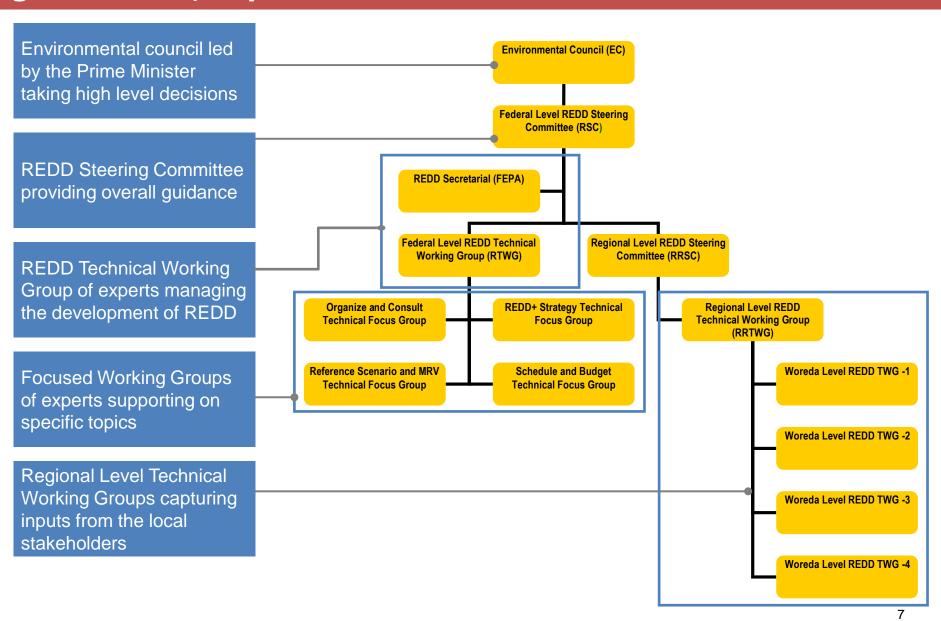
# **Objectives of the Climate Resilient Green Economy (CRGE) initiative**

- Develop baseline or reference scenario
- Describe potential for avoided emissions
- Enlist and elaborate measures to reduce emissions
- Prioritize measures
- Identify potential benefits and cobenefits
- Elaborate sectoral plans and projects
- Elaborate necessary institutions
- Describe major milestones
- Describe required support from external sources



SOURCE: EPA 6

# The REDD organizational structure involves the federal government, experts and local stakeholders



# The REDD steering committees involves all relevant players in climate change to coordinate the initiative

# Role of the REDD Steering Comte (RSC)

- Overall guidance, coordination and monitoring
- Take decisions with regards to REDD mechanism
- Review outputs of the REDD Technical Working Groups
- Identify and give direction in developing REDD pilot projects
- Link REDD process with high level decision makers

No.	Organization
1	■ FEPA
2	■ MoARD/ MoA
3	■ MoFED
4	■ MoWR/ MoWE
5	■ MoME/ MoM
6	• EWCA
7	<ul> <li>Parliamentarian: Natural Resources Standing Committee</li> </ul>
8	<ul> <li>NGO Representative: FfE (Forum for Environment)</li> </ul>
9	Private Sector: Ethiopian Chamber of Commerce
10	<ul> <li>Kaffa Forest Coffee Union</li> </ul>
11	<ul> <li>Chilimo Forest Conservation Union</li> </ul>
12	<ul> <li>Oromia Land and Environment Protection Bureau</li> </ul>
13	<ul><li>Amhara EPLAUB</li></ul>
14	■ Tigray EPLAUA
15	SNNPRS EPLAUA
16	■ BGRS EPLAUA
17	■ Gambella RS EPA
18	<ul> <li>Somali RS Environmental protection, Energy and</li> </ul>

**Energy Bureau** 

**Role in RSC** 

Chair

Member Member

Member

Member Member

Member

Member

Member Member

Member

Member

Member Member

Member

Member Member

# The REDD Technical Working Group involves experts from all relevant sectors to prepare implementation of REDD

# Role of the REDD Technical Working Group (RTWG)

- Oversee implementation of R-PP
- Develop REDD Implementation mechanism
- Prepare and design pilot projects
- Coordinate pilot project implementation
- Carry out Monitoring, Reporting and Verification
- Support Regional Technical WG in project development
- Capacity building and training to all related experts and stakeholders



	No.	List of some of member institutions		
	1	Environmental Protection Authority (FEPA)		
	2	Ministry of Agriculture		
	3	Ethiopian Institute of Agriculture		
	4	Relief Society of Tigray		
5 Southern Region Development Associ				
	6	Forestry Research Centre		
	7	Institute of Biodiversity Conservation		
	8	Oromia Forest and Wildlife Enterprise		
	9	Mekelle University		
10 Environment and Coffee Forest Forum		Environment and Coffee Forest Forum		
11 Ethio Wetlands and Natural Resources A		Ethio Wetlands and Natural Resources Ass		
	12	12 Ethiopian Wildlife Conservation Authority		
	13	UNDP		
	14	Farm Africa/SOS Sahel		

# Role in RTWG

Chair-Int

Member

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# Large scale SCP initiatives have been conducted during the R-PP formulation

### **SCP** done during R-PP formulation

- 1 1st National Consultation WS What
  - Awareness
  - Consultation on drivers of D&D
  - Existing Strategies
  - Testing SCP tools

#### Who

- 60 participants from Gov, NGOs, Research, Academia, Regions, IDP and others
- 1 2<sup>nd</sup> National Consultation WS What
  - Direct input on Dev of R-PP by Stkhdrs
  - Action Plan to broaden SCP drawn

#### Who

 60 Key stkhlds from GOV, research, academia, regions, IDP, NGOs, Rep. Of FDP and others 3 Regional, Woreda and FDC level CP (7 regions and 1 Zonal; Amhara, Oromia, SR and Tigray, Somali, Gambella, Benshangul Gumuz and North Gonder 9 Woredas and 9 FDC)

#### What

- Awareness
- Drivers of D&D
- Existing Local Strategies

#### Who

- Several hundreds Gov, NGOs, research, academia, Rep. of FDP, FDP, Elderly, Women, etc.
- Face to face meetings with REDD Pilots practitioners
- **5** Questionnaires
- 6 Radio & TV
- Several RTWG meetings
- **8** Telephone & internet discussions

# Essential findings and recommendation came out of the SCP process so far

### **National Consultations**

**Key findings:** High expectation from REDD, lack of strong forest institution and poverty as main causes of D&D, and REDD more effective than SFM/PFM

### Regional, Woreda and FDC Cons.

**Key Findings:** High expectations, REDD may bring benefits but threaten local livelihoods, unclear user right and lack support as main causes of D&D

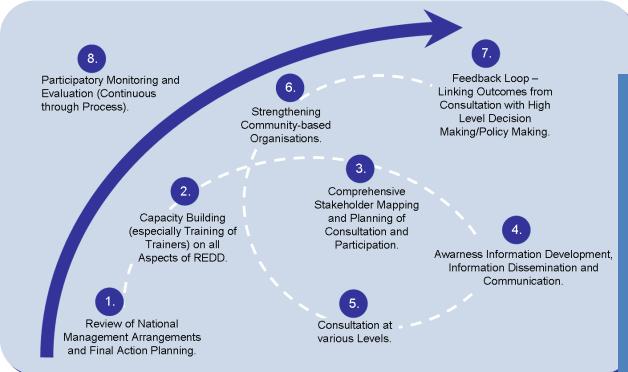
**Key Recommendation:** Strong Forest institution and participatory policy review, etc.







# Continuous SCP will help to develop the REDD strategy and empower local communities



- Review of NRMA
- Capacity Building / TOT on REDD
- Stakeholder Mapping and planning
- Awareness and ID
- Consultations
- Strengthening CBOs
- Linking with decision making bodies
- Participatory M&E



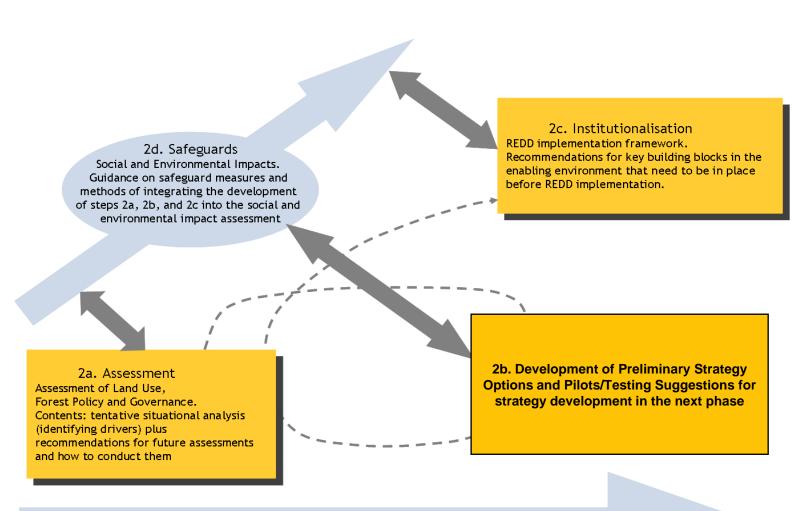
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### Overview of the REDD Strategy preparation process



1b. Meaningful Engagement: Consultation and participation plan.

Component 1b is a cross cutting component that ensures that key stakeholders (including forest dependent peoples) are included as key decision makers in assessments (2a), in pilots (2b), in developing the enabling environment, and in developing the social and environmental impact assessment methods (2d).



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# Work conducted during the R-PP formulation enabled to develop a preliminary assessment of land use, forest policy and governance

- Overview analyses of major land uses and trends, forest policy and governance situations and gaps
- Analyses of immediate and underlining causes of D&D through SCP
- Preliminary assessment of drivers of deforestation and forest degradation and in cooperation with EDRI and GGGI

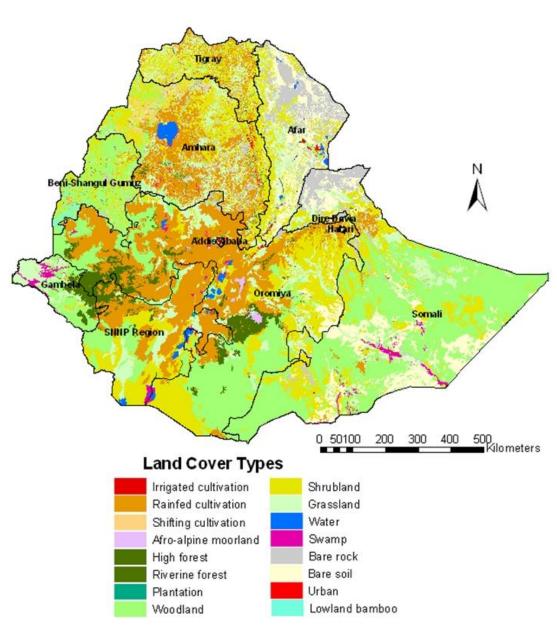


### Assessment of major land use types

### WBISSP, 2004 est...

- 3.3m ha forest
- 9.6m ha high woodland
- 44.6m ha other woodlands (FAO Clsf)
- 0.5m ha plantations
- Oromia, Southern and Gambella Reg. having largest high forest share
- Somali, Oromia & Amhara owning largest wood land and shrub land share
- A decline in forest cover from 15.11m ha to 12.2 m ha between 1990 and 2010





### Assessment of forest policy & governance

### Forest Policy are supported by two Mechanisms:

- Policy
- Proclamation

### Policy: EPE & CSE (2002)

- Provides a regulatory framework; regions develop own no-lesser stringent system
- Promotes use rights of uninterrupted access to the same piece of land

### Proclamation: Forest Dev., Cons. & Utiliz. Procl. (542/2007)

- Private ownership
- State ownership
- Recently comty ownership (Coop., assoc., user groups/WAJIB, etc)

### Institution: No clear institutional set-up; different approach in each region

- MoARD & MoTC (EWCA) at Federal level
- Forest Enterprises at Regions

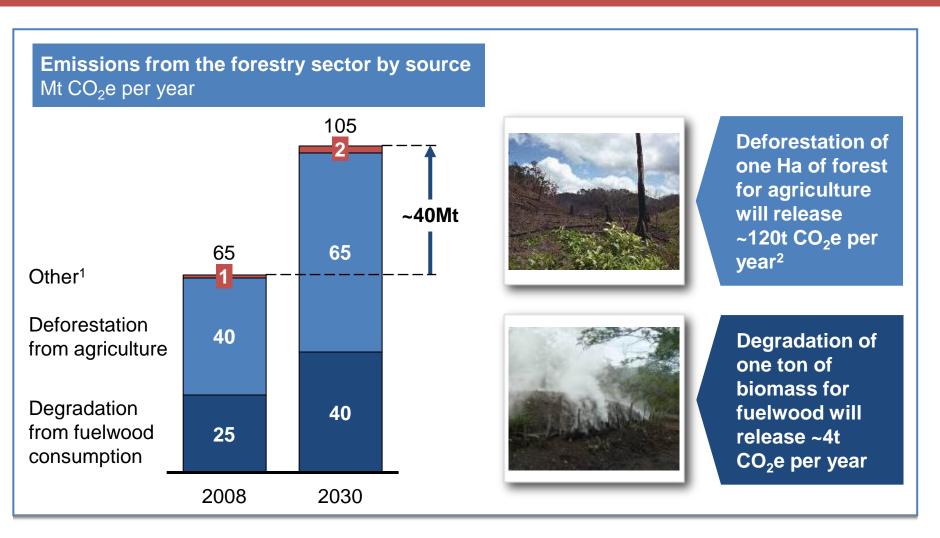


# Underlying factors enabling deforestation and forest degradation at the regulatory and policy level

- Unworkable regulatory approach to forestry due to lack of resources and inherent deficiency of regulations
- Insufficient / unclear user rights for forests create uncertainty for forest-dependent people and create "open access" mentality
- Lack of benefit sharing mechanism, although already planned by policies
- Lack of empowerment of local communities, which sometimes lack capacity to influence decisions on forests
- Lack of law enforcement due to the absence of a dedicated institution and inadequate regulatory infrastructure



# Causes of D&D: Deforestation for agriculture and degradation due to fuel wood need are the main drivers of GHG emissions from forestry



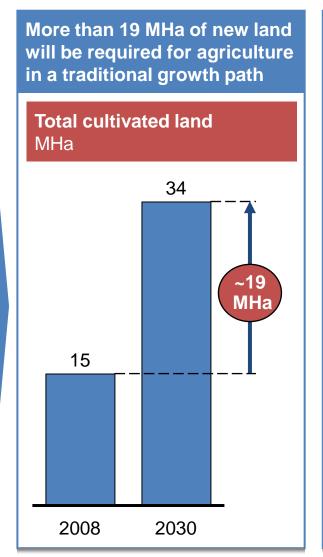
<sup>1</sup> Includes deforestation from timber, infrastructures, fires,...

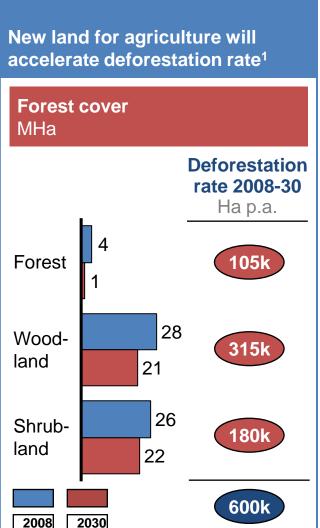
<sup>2</sup> Calculation based on High Forest as defined by Friis (1992) also used in WBISPP

# Conversion to agricultural land is the main cause of deforestation

# Main drivers encouraging conversion to agricultural land

- Ambitious agricultural GDP targets have been set by the Growth and Transformation plan (+10% per year until 2030)
- Government policies support export agriculture and food security
- Population is expected to reach ~130 Mln people in 2030, from 81 Mln in 2008
- There is little incentive for sustainable forest management

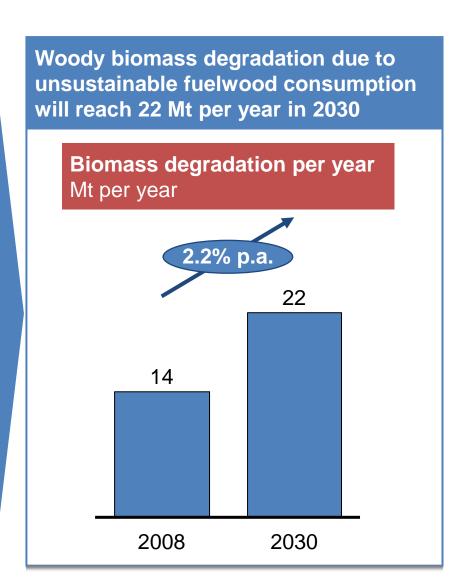




# Fuelwood consumption is the main driver of forest degradation

# Main drivers of fuelwood consumption

- Biomass energy sources account for 94% of Ethiopia's energy consumption<sup>1</sup>
- Current supply of fuelwood from eucalyptus plantations does not meet the needs of the population
- Population is expected to reach ~130 Mln people in 2030,from 81 Mln in 2008
- There is little incentive for sustainable forest management



### Overview of the actions planned to refine the assessments

#### What

- Refine environmental, economic and social costs of the drivers and underlying causes
- Develop a national consensus and create awareness on the causes of D&D
- Gain Experience from PFM to feed into assessment of drivers and strategy dev.; and Experience sharing meetings and critical analysis of PFM initiatives including REDD+ pilots.
- Assess the current enabling environment and Policy, legal & institutional gaps and Identify strategies to address the gap

#### How

 Participatory action research

- Consultation &participation
- Surveys & questionnaires, action research and C&P

Reviews, action research

#### Who

- Coordinated by RTWG (CBRTWG)
- CBRTWG

CBRTWG

CBRTWG

#### **Outcome**

- By June 2011 refined review by end 2011 finalized understanding of the underlying causes of D&D
- Better knowledge on D&D drivers leading to sound strategy options
- Lesson on PFM REDD+ pilots, Useful inputs for strategy options and Inputs for REDD+ strategy

Better REDD+ implem.

#### When

1<sup>st</sup> rev June 2011& Final end of 2011

2011

2011-2013

2011

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# Work conducted during the R-PP formulation which enabled to identify preliminary strategy options and pilot projects to leverage

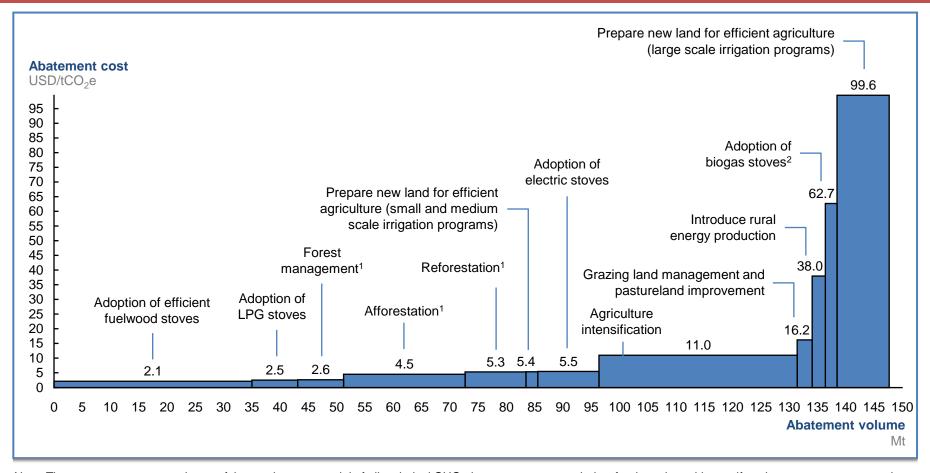
- Multi-level and multi-stakeholders consultations and participation that also include local people and FDP.
- Feedbacks of these C&P actions, identifying causes, possible solutions and on-going initiatives useful to avoid D&D.
- Identification of pilots to support strategy development, through multi-level C&P, review of documents about existing and previous projects, expert opinions, etc.
- Identification of the levers that could be used to address the D&D drivers identified by the EDRI / GGGI study
- Preliminary quantification of the impact and the potential cost of these levers



# Several strategy options have been identified to address the main D&D levers

	Macro-initiatives	Levers	Description
Deforestation from agriculture	Limit agricultural pressure on forests / woodlands	<ul> <li>Agriculture intensification</li> <li>Prepare new land for efficient agriculture (large scale irrigation programs)</li> <li>Prepare new land for efficient agriculture (small and medium scale irrigation programs)</li> </ul>	<ul> <li>Best practices aimed at increasing yield with improved inputs usage (seeds, fertilizers) and residue management</li> <li>Preparation of new land for efficient agriculture from soil with low carbon content</li> <li>Preparation of new land for efficient agriculture and restoration of degraded land for efficient agriculture</li> </ul>
Degradation from fuelwood consumption	Reduce fuel wood demand	<ul> <li>Introduce rural energy production including from alternative energy sources ( solar, wind , geothermal, etc)</li> <li>Introduction of efficient technologies (e.g., fuel saving stoves)</li> </ul>	<ul> <li>Introduction of new technologies aimed at producing energy from biomass (bio-fuel) or other alternative sources (solar, wind)</li> <li>Introduction of more efficient fuel wood stoves (e.g., MIRT stoves) or using alternative energy sources (e.g. LPG)</li> </ul>
Other initiatives (sequestration, forest management)	<ul> <li>Increase carbon stock and provide sustainable fuel wood/charcoal</li> </ul>	<ul> <li>Marginal land afforestation, reforestation of degraded land</li> <li>Forest management</li> </ul>	<ul> <li>Large scale afforestation and reforestation programs</li> <li>Large scale forest management programs (including PFM and sustainable wood plantations)</li> </ul>

# A preliminary assessment shows large potential exist to reduce GHG emissions from D&D at reasonable cost 2030 technical abatement potential



Note: The curve presents an estimate of the maximum potential of all technical GHG abatement measures below for the selected levers if each measure was pursued aggressively, starting with the most affordable measures. It is not a forecast of what role different abatement measures and technologies will play. These are preliminary numbers, more precise figures can be determined once pilot projects are completed.

<sup>1</sup> Assuming A/R abatement potential comes from its usage as conservation areas. If the areas will be used for plantation forestry, further research / analysis is need to calculate the abatement potential

<sup>2</sup> High cost due to high initial CAPEX (cost subsidized 100% by the programme) but compensated by 0 running cost (+ additional income) if compared with other stoves options

# Several pilot projects in Ethiopia will help to develop the REDD strategy

### **Pilots identified**

- Non Timber Forest Product -Participatory Forest Management (NTFP-PFM) project
- Bale Eco-Region Sustainable Management Project (BERSMP)

- Bale Mountains National Park (BMNP) project
- Humbo/Soddo Community Based Forest Management Project H/SCBFMP)

### **Learning** expected

- Maintaining forested landscape, support improved livelihoods of LP & FDP through carbon revenue.
- i) Forest Enterprise managed forests (FEM), ii) CBO managed forests, iii) Enterprise & CBO joint forest management (JFM)- reward based on a performance carbon estimation & revenue sharing
- carbon dioxide emission level in avoided deforestation as compared to business-as-usual scenarios, etc
- AR-AM0003 method CDM afforestation and reforestation methodology, carbon emissions



# Major actions to develop REDD strategy

- Evaluate strategy options identified and develop and/or support existing pilots
  - Refine calculations, assess environmental, socio-economic impacts, feasibility and side benefits
  - Prioritize solutions/SOs
  - Develop pilot projects or extend scope of existing projects to test the SOs
- Participatory Action Research on Pilot projects, examining existing REDD pilots and PFM
- Oeveloping REDD+ information sharing Network



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# **Action plan to develop the REDD Implementation Framework**

# 1 Improving the enabling environment

- Review / revise problem areas of policies and laws, make amendments / prepare new ones
- Strengthening user rights
- Cross sectoral and cross institutional coordination
- Setting up a dedicated service oriented forest institutions (federal / regional)
- A sound policy and implementation of SESA/ESMF

# Developing REDD+ delivery mechanisms and institutions

- Federal / regional REDD+ implementing bodies
- REDD Financial management system (auditing included)
- SESA, MRV, External Audit and Carbon registry

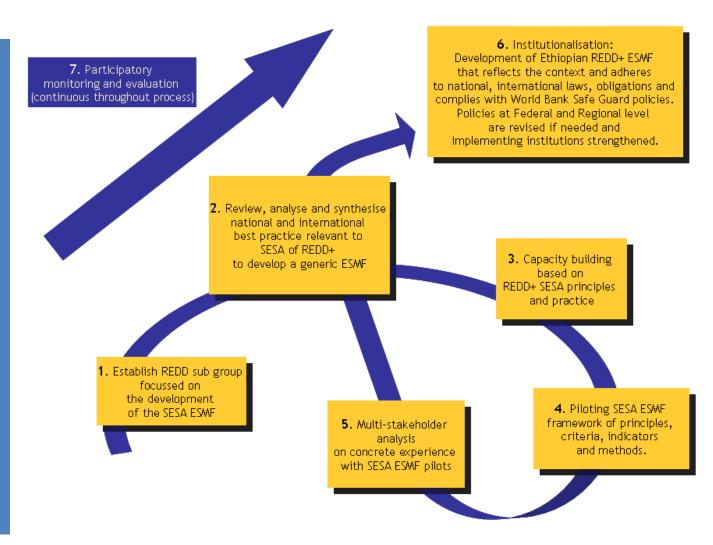


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### **Process of assessment of Social and Environmental Impacts**

# Key actions for integrating SESA in REDD+ implem.

- Establishing SESA ESMF Unit
- Review of national and international best practice on SESA ESMF
- Pilot testing SESA methodologies
- Developing baseline before piloting
- Developing REDD+ ESMF
- Participatory M&E of ESMF





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# **TOR for the Reference Scenario**

## Actions to develop the Reference Scenario

- Preliminary assessment of current and future carbon emissions level based on existing data sources (EDRI/GGGI)
- 2. Capacity building
  - Carbon accounting methods
  - Mapping of activity data
  - Mapping of emission factors
- 3. Define reference time period and Tier / Approach level
- 4. Review available data sources
- 5. Quantify activity data
- **6.** Quantify emission factors
- 7. Quantify historical carbon emissions level
- 8. Development of reference scenario

#### **Timeline**

Done in 2010

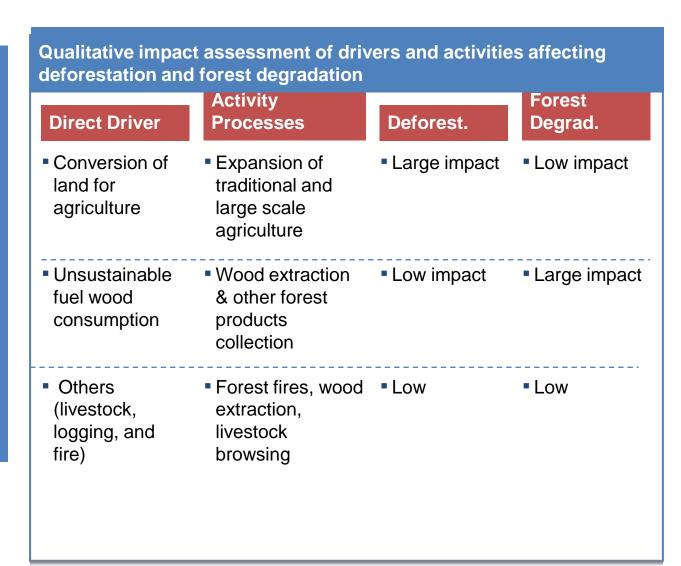
**2011-2013** 

- **2011**
- **2011**
- **2011**
- **2011-2013**
- **2011-2013**
- **2012-2013**



# **Key elements of the Reference Scenario development**

- Ethiopia will use Tier
   2 Approach 3
   (IPCC GL) up to 2015
   for estimating C
   stock chge (CSC).
- Follows AFOLU instead of Forest classification
- Uses direct drivers (see 2a) D&D to quantify CSC
- Uses RS dev.Experience of the 4 pilot projects





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# Designing monitoring system for emissions, removals and other benefits



Overview of REDD monitoring indicators for different categories of REDD

REDD		Monitoring tool			MRV indicator
Level	Topic	Remote Sensing	Forest monitoring	Other methods	
RED	<ul><li>Deforestation</li></ul>	<ul> <li>Mapping of forest area and changes over time</li> </ul>	<ul> <li>Forest inventories to estimate carbon stock</li> </ul>		<ul><li>Net carbon stock change</li></ul>
REDD	<ul><li>Forest degradation</li></ul>	<ul> <li>Mapping of roads and logged areas in forest area</li> </ul>	<ul> <li>Forest inventories to estimate carbon stock</li> </ul>		<ul><li>Net carbon stock change</li></ul>
REDD+	<ul><li>Forest enhancement</li></ul>	<ul><li>Mapping of increased forest area</li></ul>	<ul> <li>Forest inventories to estimate carbon stock</li> </ul>	<ul><li>Forest concessions</li><li>Plantation concessions</li></ul>	<ul><li>Net positive carbon stock change</li></ul>
REDD+	<ul><li>Sustainable forest management</li></ul>	<ul><li>Mapping of forest area</li></ul>	<ul> <li>Forest inventories to estimate carbon stock</li> </ul>	<ul><li>Wood certification</li><li>Kebeles with PFM</li></ul>	<ul><li>No change in forest area and carbon stocks</li></ul>
REDD+	<ul><li>Forest conservation</li></ul>	<ul><li>Mapping of forest area</li></ul>	<ul> <li>Forest inventories to estimate carbon stock</li> </ul>	<ul> <li>National park acreage</li> </ul>	<ul><li>No change in forest area and carbon stocks</li></ul>
REDD++	<ul><li>Biodiversity conservation</li></ul>	<ul><li>Mapping of ecological corridors</li></ul>	<ul> <li>Include tree and other species / including animals in forest inventories</li> </ul>		<ul><li>Number of plant / animal species</li><li>Extent of ecological network</li></ul>

# Designing monitoring system for emissions, removals and other benefits (Continued) Overview of REDD monitoring indicators for different categories of REDD

#### **MRV** indicator **REDD Monitoring tool** Other methods **Topic Remote Sensing Forest monitoring** Level REDD++ Benefit Mapping of forest Investment / Forest inventories to Legal entities sharing (to area and changes estimate carbon stock Administrative units reward per local forest over time (involve local Carbon related carbon emission dependant communities in forest financial data unit per legal communities) entity (US\$/kg inventories) C/ha) **Country** • Land cover Mapping of land cover Ground truthing PRA method Land cover map specific Mapping of coffee inventory Potential coffee map Coffee forest issues Coffee forest forest export High land & Mapping of high land inventories Potential & lowland bamboo lowland High land & lowland bamboo export bamboo forests bamboo forest CER from Mapping of Accacia inventories bamboo forest. forests Gums. commiphora and Ground truthing of Gum Arabic. Boswellia forests Accacia commiphora incense and incense and and Boswellia forests myrrh in myrrh export drlylands



## TOR - MRV

## Actions required to develop the MRV

- MRV training (REDD+ framework, remote sensing, forest inventories) –capacity building
- Inventory of available data and methods
- Development of a standardized classification procedure
- Development of a standardized forest inventory method
- Methodology to assess REDD+ monitoring indicators
- Reporting of REDD+ monitoring indicators
- Verification
- Institutional setup of the MRV system

#### **Timeline**

- **2**011-2013
- **2011**
- **2011-2012**
- **2**011-2012
- **2012-2013**
- **2012-2013**
- **2013**
- **2011-2013**



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# **Schedule and Budget**

# Main activity

- 1. Organize and Consult
- 2. Prepare the REDD+ strategy
- 3. Dev. RS
- 4. MRV
- **5.** M&E

**Total** 

**FCPF** 

**Gov and IDP** 

# **Sub-activity**

- 1a. NRMA
- **1b.** C&P
- 2a. ALUP&G
- **2b.** C&P
- 2c. RIFW
- 2d. SESA

Estimated Cost (in thousands \$)						
2011	2012	2013	2014	Total		
260	300	130	90	780		
695	815	330	80	1920		
480	140	40	-	660		
2160	1430	980	280	4860		
750	440	155	-	1345		
235	115	130	-	480		
1440	780	400	50	2670		
220	370	430	150	1170		
70	110	30	20	230		
6,310	4,500	2,625	680	14,115		
1525	1215	520	140	3,400		
4785	3285	2105	540	10,715		



# **Contributions for R-PP Formulation Ethiopia**

# **Contributing IDP**

- FCPF
- AFD
- Austrian Development Agency

#### **Other Potential IDP**

- UN-REDD
- Norwegian Gov. (NIF)
- Japan Gov./JICA

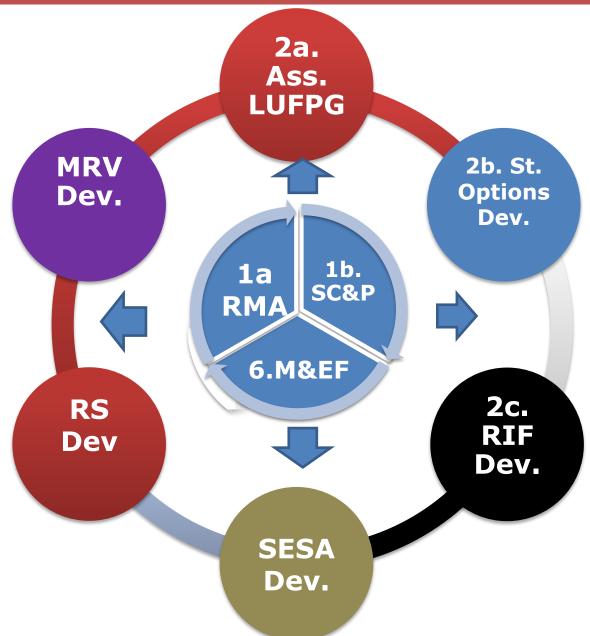
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**Thank You** 

# **REDD Components**

- 1. Organize & Consult 1a. RMA 1b. SC&P
- 2. REDD Strategy Dev. 2a. Ass. LUFPG 2b. Strategy Options 2c. RIF Dev. 2d. SESA Dev.
- 3. Reference Scenario
- 4. MRV
- 5. Schedule & Budget
- 6. Monitoring & Evaluation FRW Dev.





# Benefits of SCP REDD+ in REDD+ Strategy Dev.

- More relevant, effective and coherent strategies
- Enhanced ownership of **REDD+** strategies
- Increased accountability
- Reduced conflicts through improved relationships
- A raised profile and greater support for forestry





For 'A' provide level communication platform

accountability for 'C'

Provide opportunity for stronger voice for 'B'

Power influence over REDD+ decisions

#### Forest stakeholders

#### **Forest Stkhld**

#### **Current Status**

#### **Desired Status**

- FDP/F. dwellers Highly affected by Forestry Decisions, low influence on policy and high influence on local **Forest** management
- Most influential on REDD+ planning& impl.

- **Private forestry** sector - wood enterp.
- Highly affected, very low influence on policy and, mostly not formal and accountable
- Increased influence, should

- Private forestry High positive sector - non wood enterp.
  - impacts on forest due incentives
- Increased positive impacts and incentives

- MOARD
- Has high influenceShould engage
  - more with FDP

#### A) Stakeholders that are highly affected by REDD decisions and have high influence:

This is the ideal place for most affected stakeholders to be where they can have more influence - it is also the idel place for influential stakeholders to be where they can feel/hear the affects of their decisions.

#### B) Stakeholders are highly affected by REDD decisions but have low influence:

Require special effort to provide the opportunity for them to move to box A in this matrix.

Affected by REDD+ decisions

#### C) Stakeholders no directly affected by REDD decisions but have high influence over them:

Require special effort to convince them to face the consequences of their decisions an move to Box A in this matrix.

#### D) Stakeholders indirectly affected and with low influence:

These may include people who are interested in REDD and these will require information in a suitable format and/or opportunity to be heard.



Ethiopian Environmental rotection Authority

Stakeholder analysis exercise with hypothetical contents (FAO/O'Hara, 2009); the method has been tested at national and local level consultations (see annex 1b).

#### Step 1: Gather Information

List stakeholders and assign numbers to them

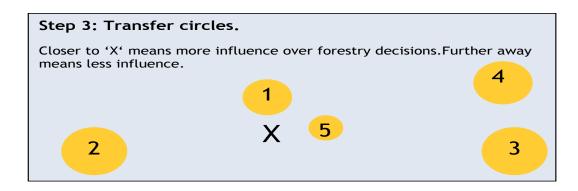
#### Step 2: Draw Circles

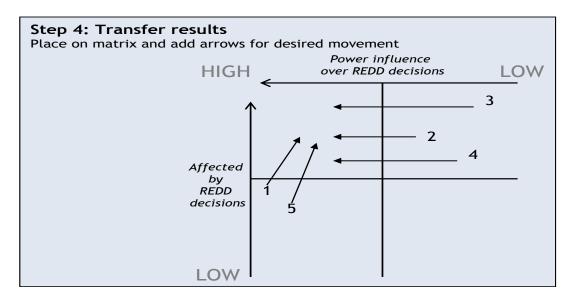
Assign circles according to size:

Bigger = More effected by forestry

Smaller = Less effected by forestry

# Stakeholders (hypothetical examples) 1. Forestry Department 2. Sawmillers 3. Indigenous Forest Dwellers 4. Migrants 5. NGOs







# **SCP Tools**

- 3. Time/Trend line ⇒ Causes of Chg
- 4. Brainstorming ⇒Problem Identf.
- 5. Problem anlys ⇒ Drivers of D&D
- 6. Solution anlys ⇒ Strategy options
- 7. Priority ranking ➡ Ranking Str. Op
- 9. 3R's Ranking ⇒ Benefits/SESA





