### PILOTING OF ICAT AGRICULTURE POLICY GUIDANCE FOR ETHIOPIA

### POLICY ASSESSMENT REPORT





Climate Action Tips and tools for creating and presenting wide format slides

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#### INITIATIVE FOR

Climate Action Transparency

Greenhouse Gas Management Institute, Verra

#### Agriculture Guidance

Guidance for assessing the greenhouse gas impacts of agriculture policies

#### May 2018

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- Why the guidance develop:- The Initiative for Climate Action Transparency (ICAT) aims to help countries assess the impacts of their climate actions and support greater transparency, effectiveness, trust and ambition in climate policies worldwide.
- The ICAT series of guidance documents is designed with countries' needs in mind with a focus on methodologies for the assessment of the GHG reduction, sustainable development and transformational change impacts of policies and actions.
- ICAT integrates methodological guidance; capacity building and knowledge sharing to strengthen the transparency and effectiveness of climate policies and actions.
- Agriculture policy guidance is primarily designed to assess specific policy instruments and associated mitigation practices and/or technologies in the agriculture sector.



- Purpose of the guidance:- provides methodological guidance for assessing the GHG impacts of agriculture policies that enable or incentivize mitigation practices or technologies.
- Scope of the guidance :- the guidance provide principles, concepts and procedures for estimating GHG impacts of agricultural policies that mitigate GHG emissions from the enteric fermentation and soli carbon pool sources

Type of policy Instrument	Description	Examples of policy instruments
Regulations and standards	Rules or standards that specify abatement technologies (technology standard) or performance standards (such as minimum requirements for erosion rates, tillage setbacks or nutrient management. They typically include legal penalties for noncompliance.	<ul> <li>Standards for management practices for livestock health and reproduction</li> <li>Standards for implementing silvopastoral systems</li> <li>Conservation mandates requiring landowners to place an area equivalent to 10% of cultivated lands into conservation reserve</li> <li>Laws that promote connectivity between natural ecosystems</li> </ul>
Subsidies and incentives	Direct payments, tax reductions, price supports or the equivalent thereof from a government to an entity for implementing a practice or performing a specified action.	Tax reductions for setting aside agricultural land     Payments for changing agricultural practices     Payments for ecosystem services
Voluntary agreements or actions	Agreements, commitments or actions undertaken voluntarily by public or private sector actors, either unilaterally or jointly in a negotiated agreement. Some voluntary agreements include rewards or penalties associated with participating in the agreement or achieving the commitments.	<ul> <li>Zero net-deforestation commitments</li> <li>Agroforestry agreements with landowners</li> <li>National programmes to reduce emissions in a sector (e.g., NAMA)</li> <li>Low carbon development projects</li> </ul>
Research, development and deployment policies	Policies aimed at supporting technological advancement, through direct government funding or investment, or facilitation of investment, in technology research, development, demonstration, and deployment activities	<ul> <li>Efforts to strengthen formal education of farmers, provide training and introduce new technologies or practices to farmers, provided by extension services or other programmes supported by the government to support improved practices, technology adoption, and even monitoring of activities</li> <li>Training modules about sustainable production and climate change disseminated through extension agents</li> <li>Regional workshops to agricultural producers</li> </ul>
Financing and investment	Public or private sector grants or loans (for example, those supporting low-carbon development strategies or	<ul> <li>Low-interest rate loans for farmers that implement sustainable livestock production practices</li> </ul>

policies)

- Enteric fermentation: Reduce methane (CH4) emissions in ruminant livestock through activities such as improving feeding strategies, improving herd management and breeding
- Soil carbon pool: Increase carbon sequestration in soils in pasture, grazing lands or croplands through activities such as switching to no-till or conservation tillage agriculture, agricultural residue management or agroforestry.
- Intended users :- The primary intended users are developing country governments and their partners who are implementing and assessing agriculture policies.

- Intended users also includes policymakers and practitioners seeking to estimate GHG mitigation impacts in the context;
  - NDC development and implementation,
  - National low carbon strategies,
  - NAMAs and other mechanisms.
- The guidance applicable to policies at:-
  - At any level of government (federal, region or city)
  - That are planned ,adopted or implemented
  - The are new policies or extensions



- When to use the guidance:- The guidance can be used at multiple points in time throughout a policy design and implementation process, including:
- •Before policy implementation: To assess the expected future impacts of a policy (through ex-ante assessment)
- •During policy implementation: To assess the achieved impacts to date, ongoing performance of key performance indicators, and expected future impacts of a policy
- •After policy implementation: To assess what impacts have occurred as a result of a policy (through ex-post assessment)

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### **Overview of steps**

### **Basic Steps Followed**

- Objectives of estimating GHG impacts
- Steps and assessment principles
- Program/ policy descriptions
- Identifying impacts: The causal chain
- Estimating the baseline scenario and emissions
- Estimating GHG impacts ex-ante
- Monitoring performance over time



Part I: Introduction, objectives, key concepts and overview of agriculture policies Understand the purpose and applicability of the guidance (Chapter 1) Determine the objectives of the assessment (Chapter 2) Understand agriculture policies (Chapter 3) Understand steps and assessment principles (Chapter 4) Objectives of estimating GHG impacts

1) Improving program and project design and implementation, assess financing and inform policy selection as well as

2) Feed into the ICAT on the current guideline to further enhance it.

 Our approach on the piloting of the Agriculture Guidance will be to look at before policy implementation.



Part I: Introduction, objectives, key concepts and overview of agriculture policies Understand the purpose and applicability of the guidance (Chapter 1) Determine the objectives of the assessment (Chapter 2) Understand agriculture policies (Chapter 3) Understand steps and assessment principles (Chapter 4)

- Steps and assessment principles
- 1. Engagement with Ministry of Agriculture
- 2. Identification of agriculture sector mitigation actions
- 3. Identification of policies/programs/and projects
- 4. Preparation of casual chain
- 5. Preparation of program/project checklist
- 6. Preparation of report
- Stakeholder engagement with Ministry of Agriculture



Part II: Defining the assessment

Clearly describe the policy to be assessed (Chapter 5) Identify the GHG impacts to assess (Chapter 6)

### Program/ policy descriptions

The list of program/ project looked at are:

- RPLRP (Regional Pastoral Livelihood Resilience Project)
- SLMPII (Sustainable Land Management Project)
- AGP II (Agricultural Growth Program)
- PASDIP (Participatory Small scale Irrigation Development Programme)
- PSNP IV (Production Safety Net Programme)



#### Part II: Defining the assessment

Clearly describe the policy to be assessed (Chapter 5) Identify the GHG impacts to assess (Chapter 6)

### Program/ policy descriptions

	Information	Description	Program goal				
	Title of the Program	Sustainable Land Management Program II	To improve climate resilience, land productivity and carbon storage, and increase access to diversified livelihood activities in intervention watersheds.				
	Type of Program	Green Infrastructure and Resilient Livelihoods	<ol> <li>Land area under sustainable landscape management practices (Ha)</li> <li>Land area restored or reforested/afforested (Ha)</li> <li>Land area with productivity enhancing practices applied (Ha)</li> <li>Project area showing an increase in the NDVI14 correcting for climate effects (Percent)</li> <li>Project area showing an increase in the Land Surface Water Index (LSWI)15 correcting for climate effects (Percent)</li> <li>Net greenhouse gas emissions (metric tons)</li> </ol>				
		Investing in Institutions and Information for Resilience Rural Land Administration and	<ul> <li>Impact evaluation, knowledge management and communication.</li> <li>Capacity building, information modernization and policy development;</li> <li>Provide security of tenure to smallholder farmers in RLLP watersheds through Second,</li> </ul>				
		Use Project Management and reporting	Level Landholding Certification Effective implementation and reporting on project activities M&E, Gender sensitive information, communication, disaggregated information				
	Description of specific intervention		<ul> <li>A total of 152 major watershed with a size of 10,000ha each intervened with phased approach (45 during SLPI, 90 during SLPII and 17 during CLADUM</li> </ul>				

### The Casual Chain- SLMP



### The Casual Chain- AGP



#### Part II: Defining the assessment

Clearly describe the policy to be assessed (Chapter 5) Identify the GHG impacts to assess (Chapter 6)

## Estimating the baseline scenario and emissions

#### **SLMP II Program**

Action: Integrated Watershed and Landscape Management

**Assumption:** No change scenario is used for the baseline scenario since the implementation is at small scale level and there is won't be a significant change during the implementation phase.

#### Activity Data and Unit of Measurement:

Total land area in hectares (individual and communal) brought under a catchment management system as a result of the project. This indicator refers to mainly closed areas covered with trees and managed by user groups

Echnoserve

Baseline		Imple				
(2013)	2014	2015	2016	2017	2018	Total
300,000	400,000	600,000	800,000	910,000	910,000	3,620,000
						and the second

## Estimating the baseline scenario and emissions

#### **Result of baseline emission**

Project Name Continent	SLMP 2 Akrica	uminant Roq	Climate	Tropical Mo HAC Soils	ountain (Diry)		Duration o		ject (Years) II area (ha)	20 3620000	
Components of the project	Gross fluxes Without All GHG in t	With	Balance	Share per 0 All GHG in CO <sub>2</sub>	iHG of the Bala tCO2eq	IBCC	N₂0	сн.	Result pe Without	r year With	Balance
Land use changes	Positive = so	ource / negat	ive = sink	Biomass	Soil	Other	THE ST	2211			
Deforestation Afforestation Other LUC	0 -67,636,388 0	0 -816,145,743 0	0	0	0 -271,191,433 0		0 0 0	0	0 -3,381,819 0	0 -40,807,287 0	0
Agriculture	Č		U.						, in the second s		
Annual	0		0	0					0		0
Perennial	0		0	0					0		0
Rice	0		0	0					0		0
Grassland & Livestocks											1.
Grassland	0		0	0					0		0
Livestocks	0		0						0		0
Degradation & Managemen Forest degradation	0	0	0	0			0		n i	0	0
r orest degradation Peat extraction	ő	0	0				ő	0	ů	0	0
Drainage organic soil	ő	ŏ	ő		Ň			ő	ů	ů	ŏ
Rewetting organic soil	ŏ	ŏ	ő		ň		ă.	ň	ň	ň	ů.
Fire organic soil	ő	ō	0		0			0	ŏ	ō	0
Coastal wetlands	ō		0	0					ō		0
Inputs & Investments	0		0						0		0
Fishery & Aquaculture	0	0	0			0	•	0	0	0	0
Total	-67,636,388	-816,145,743			-271,191,433	0	0	0	-3,381,819	-40,807,287	
Per hectare	-18.7	-225.5	-206.8	-131.9	-74.9	0.0	0.0	0.0			
Per hectare per year	-0.9	-11.3	-10.3	-6.6	-3.7	0.0	0.0	0.0	-0.9	-11.3	-10.3

### Part II: Defining the assessment

Clearly describe the policy to be assessed (Chapter 5) Identify the GHG impacts to assess (Chapter 6)



**Estimating GHG impacts ex-ante** 

### **SLMP II Program**

### Action: Integrated Watershed and Landscape Management

#### Part III: Assessing impacts







Estimating GHG impacts ex-ante

### **SLMP II Program**

### Action: Integrated Watershed and Landscape Management



Total without and with project and balance



#### Part III: Assessing impacts

Estimating GHG impacts ex-ante

### **SLMP II Program**

### Action: Integrated Watershed and Landscape Management



Part III: Assessing impacts

### Monitoring performance over time

Action: Integrated Watershed and Landscape Management



Part III: Assessing impacts

#### Part IV: Monitoring and reporting

Monitor the performance of the policy over time (Chapter 10) Report the results and methodology used (Chapter 11)

### Monitoring performance over time

### Monitoring Plan (GHG Reporting)

Project/ Program	Action	Indicator and unit	Potential sources of data	Parameter type	Monitoring frequency	Responsible	Remark
AGP II	Small scale irrigation	Area provided with irrigation and drainage services (ha) (Hectare (Ha))	Annual report; Program Design Document;	Activity Data	Annual	AGP Program Office MoA, CRGE Directorate; EFCCC	
SLMP IV	Integrated Watershed and Landscape Managemen t	Total land area in hectares	Annual report; Program Design Document;	Activity Data	Annual	SLMP Program Office MoA, CRGE Directorate; EFCCC	Educana S

### Lesson learned

Should MoA take program/projects approach?



- Advantage: Better and reliable data, no additional data collection
- Challenge: Woreda overlap/ double counting





# Should MoA take action based approach? Mechanization, irrigation etc.



- Advantage: easier to show progress by CRGE/NDC Action
- Challenge: Difficult to collect data, verification

