

Regional Capacity Building for Sustainable National  
Greenhouse Gas Inventory Management Systems in Eastern and  
Southern Africa

**WRI MAPT SIDE EVENT**

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# **PRESENTATION LAYOUT**

- ➔ The ESA Project**
- ➔ Priority CB Objectives**
- ➔ Tools and Resources**
- ➔ Lessons learned**
- ➔ Challenges**
- ➔ Other CB Initiatives**

# DESCRIPTION OF THE ESA PROJECT

➔ **Project Context and Development**

➔ **Objectives**

➔ **Approach**

➔ **Expected results**

➔ **Implementation status**

# PROJECT CONTEXT

- **Requests for assistance from non-Annex I Parties to develop good quality GHG inventories (Tier 2) in Agriculture, Forest and LU sectors within the framework of National Communications**

# PROJECT DEVELOPMENT

- **Scoping meeting (Dar Es Salaam, Tanzania, 28-30 September 2010)**
- **Regional project proposal developed and circulated to all countries for comments and endorsement (14 December 2010)**
- **Kick-off workshop to plan implementation (9-11 March 2011, Mauritius)**
- **Project endorsement completed by all countries (Botswana, Malawi, Mauritius, Namibia, Rwanda, South Africa, Tanzania and Zambia)**

# SPECIFIC OBJECTIVES

Specifically, the Project aims to:

- **1) Strengthen the institutional arrangements and inventory management systems**, its functions, and ability to sustainably oversee the compilation of regular national GHG inventories for submission to the UNFCCC;
- **2) Enhance the technical capacity of designated personnel to produce at minimum a complete Tier I level**, or where achievable move to **Tier 2 level**, well documented/transparent GHG inventory for the **Agriculture, Forest and LU** sectors.

## **SPECIFIC OBJECTIVES (cont.)**

- **3) Improve national methodologies, activity data and emission factors through a combination of hands-on training designed to meet the individual needs of the countries:**
  - Use of GHG inventory management tools and methodologies specifically designed for the Agriculture, Forest and LU sectors;
  - Assistance from experts with specific knowledge on these source/sink categories;
  - Guidance on developing land use maps and assessing carbon stocks; and
  - Regional networking.

# APPROACH

## Build on lessons learned: UNFCCC process and previous similar projects

**UNFCCC compilation & synthesis of National reports for constraints and needs of Non Annex I countries to meet their reporting obligations**

**Central America** : First regional project. Developed our current approach and designed our tools Phase I: 2004-2007 Phase II: 2007-2010 (USEPA)

**China**: Adaptation of existing tools to suit the context of provinces (USEPA)

**South East Asia**: Eight countries. Collaboration with UNFCCC. Applied lessons learned and tools developed. Phase I: 2008-2010 Phase II: 2011-2012 (USEPA)

**Eastern and Southern Africa**: Apply lessons learned and tools developed in all previous projects. Wider partnerships: USEPA, UNFCCC, GIZ, etc. Phase I: 2011-2013 Phase II: ???

# CHALLENGES

- **Small teams with limited resources (Capacity and Finance) and multiple responsibilities**
- **Incomplete or non-existent activity data**
- **Lack of country-specific emission and removal factors**
- **Insufficient documentation from previous inventories**
- **Weak Management System, e.g. Institutional Set-up**
- **Difficulty retaining expertise**
- **Insufficient political understanding and will**

## **EXPECTED RESULTS**

- **A complete well-documented inventory as end product**
- **Teams have done the job through hands-on training**
- **Necessary activity data collected, used and archived**
- **EFs improved or derived to meet country needs**
- **Sustained, long-term effort at the basis of the success**
- **A sustainable GHG inventory team is operational**

# **PROJECT IMPLEMENTATION STATUS**

- **GHG inventory Management System partially (IA for AFOLU sectors) in place while Documentation, QA/QC, KCA and Archiving will follow**
- **Six-country workshops on AD needs for meeting UNFCCC reporting requirements**
- **Two in-country training workshops for National experts on the ALU software**
- **Various technical work sessions for mapping LUC in five countries**
- **Production of LULC maps for the years 2000 and 2010 under way for six countries for detecting LUC and changes in carbon stocks**
- **Capacity Building of National experts on generating LULC maps for tracking LUC and changes in carbon stocks under way for all countries**

## **PRIORITY CB ACTIVITIES**

- **Set up a sustainable GHG inventory management system**
- **Develop appropriate Institutional Arrangements**
- **Conduct Key Category Analysis**
- **Perform a Source by Source category analysis**
- **Collect good quality reliable AD; applying QC**
- **Assess default EFs and develop appropriate ones**

## **PRIORITY CB ACTIVITIES (cont.)**

- **Develop and implement an Archiving system**
- **Put in place Quality Assurance (QA) procedures**
- **Create the necessary Institutional Memory through documentation of all steps when producing the inventory**
- **Prepare a National Inventory Improvement Plan**
- **Produce stand alone Inventory Reports**
- **Adopt minimum of Tier II to set MRV standards**

# TOOLS AND RESOURCES

## Tools (User friendly templates)

- **IA including inventory cycle**
- **SBS analysis (Completeness)**
- **KCA (Prioritize use of limited resources)**
- **QA/QC (Accuracy)**
- **Archiving (Transparency and Comparability)**
- **NIIP (Consistency)**

# **TOOLS AND RESOURCES (cont.)**

## **Resources**

- **KCA compiler (USEPA)**
- **ALU workbook (CSU)**
- **ALU software (CSU)**
- **UNFCCC software**
- **CGE training materials**
- **Funds (GEF, Bilateral, Multilateral)**
- **International databases (FAO, EFDB, IRRI, etc)**

# LESSOND LEARNED

## Successes

- **Rare and scanty**
- **Slow progress as experts poorly dedicated**
- **In house attempts instead of consultants**

## However

- **A few NAI countries produced inventory reports**
- **Few NAI countries moved to higher Tiers**

## **SOME OTHER CB INITIATIVES**

- **SEA (8 countries) and Andean (3 countries) projects**
- **CGE training sessions of the UNFCCC**
- **UN REDD by FAO**
- **CD REDD II by GIZ and CfrN**
- **GHG Institute courses**
- **The NC framework by consultants**
- **REDD+ MRV system for the SADC countries by GIZ**

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*Thank you  
for your attention*