#### **Climate Change and Air Quality**







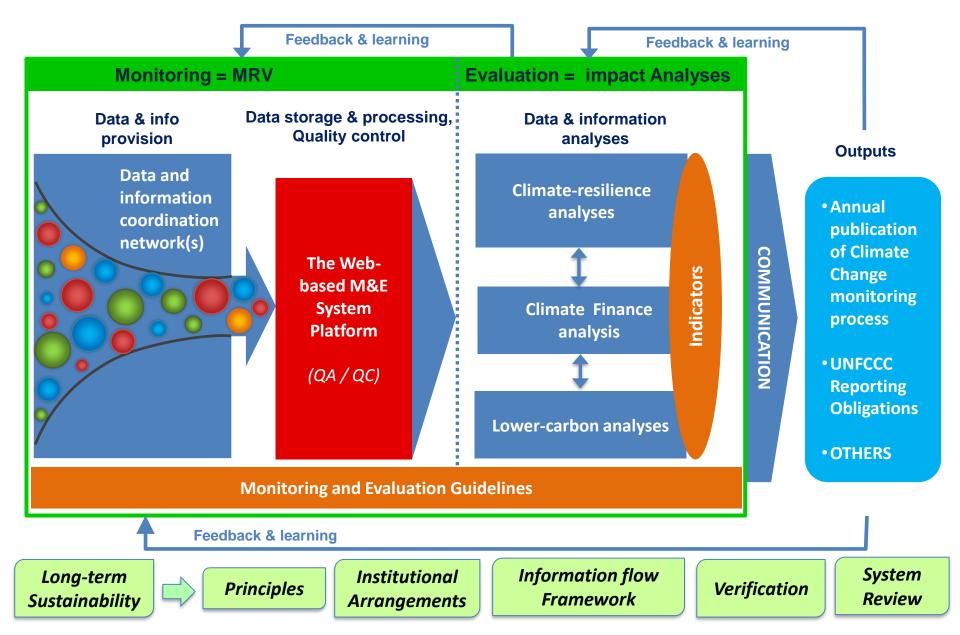




# Methodologies for assessing the impact of mitigation actions







# The System

## The Role of M&E guidelines

#### To give guidance on:

- 1. the assessment methods and approaches for assessing the Lower-carbon indicators, primarily GHG mitigation
- 2. on accounting for overlaps and linkages between mitigation policies & measures
- 3. the type of data and information to be measured and monitored over time
- 4. possible SD benefits for different PAMs and how they can be monitored
- 5. uncertainty assessment & QA/QC procedures
- 6. reporting into the M&E system

# The M&E guidelines

6 volume series composed of the following:

VOLUME No	TITLE	SUPPORT
1	POLICIES, STRATEGIES AND LAWS	WRI
2	ENERGY SECTOR	USAID
3	WASTE SECTOR	USAID
4	TRANSPORT SECTOR	USAID
5	INDUSTRIAL PROCESSES	USAID
6	AGRICULTURE, FORESTRY AND OTHER LAND-USE SECTORS	AUSTRALIA

### **General Outline of Guidelines 2 – 6**

- **1. Introduction**: Short General CC background; The national CC M&E system; Sectorial/subsectorial background
- **2. Objective & scope** (the specific types of response measures covered in the guideline)
- 3. Guideline Steps:
- **4. STEP 1**: Selecting the mitigation measures
- **5. STEP 2**: Selecting the indicators (From the M&E system indicators)
- **STEP 3**: Undertaking the assessment (Methods & data issues; dis-aggregated by type of response measure where necessary; Various options in approaches presented where applicable )
  - i. Implementation progress
  - ii. Impact assessment
- GHG emissions
- jobs & other SD indicators
- iii. Effectiveness assessment
- **7. STEP 3:** Quality control and Assurance
- **8. STEP 4:** Reporting

## **Volume 1: Background**











- GHG protocol -Developed by the WRI.
- Provides standardised methods for estimating GHG effects of policies and Actions
- Defines SA's CC
  Response M&E system
- Outlines indicators
- Outlines tools and guidelines needed

- South Africa specific
- Based on the standard GHG protocol.
- Provides general guidance on assessing M&E system indicators for policies

# **Summary of the Guideline**

 How to estimate M&E system indicators of climate-relevant policies and strategies:

A. Implementation indicators			
	GHG effects		
B. Impact Indicators	Sustainable Development co-benefits / costs		
	Effectiveness		
C. Effectiveness Indicators			

- How to identify policy interaction and define assessment boundary
- Hardly any equations prescribed:
  - makes reference to other volumes (Vol. 2 6)
  - Only gives guidance on how to aggregate results
  - Focus is on direct emissions rather than Life-cycle approach

Overall Steps	Detailed Steps
	Defining objectives of assessing GHG effects of policies and identify target audience
Defining the policy /	Select policy or group of policies to be assessed:
Strategy assessed	Determine whether to assess an individual policy / strategy or a package of polices & strategies
	Choose ex-ante or ex-post assessment:
	Identify the indicators of the National M&E system to be assessed / monitored
ldoutify Indiantous	Identify all potential GHG effects of the policy r action
Identify Indicators	Identify relevant non-GHG effects/sustainable development benefits
and Effects	Characterise all the types of effects
	Map the causal chain
Define the	Estimate the likelihood that each effect will occur
	Estimate the relative magnitude of each effect
assessment -	Determine which impact sources to include in the assessment boundary
boundary	Define the GHG assessment period
	Determine the Volume in which to find detailed guidance on scenario methods
Estimate Effects	Estimate the GHG and SD effects using Volumes 2 - 6
Estillate Effects	Other methods: Deemed estimates methods
L	Other methods: Comparison group method
Verification	Verification, QA & QC procedures
Reporting	Reporting into the Web-based platform of the M&E system

## **PILOTS (2007 – 2014)**

- 1. National Public Transport Strategy 2007
- 2. National Waste Management Strategies 1999/2010

