

# Climate MRV for Africa – Phase 2 Development of National GHG Inventory Settlements



## Project of the European Commission DG Clima Action

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**Quality Assurance** - Activities related to quality assurance (QA) system in Country include testing procedures conducted by persons not involved directly in the creation of a national inventory of greenhouse gases from the sector

**Quality Control** - Quality control procedures help ensure that the national inventory represents the best estimate of the level of emissions and removals at the current stage of scientific knowledge and available data,

- The objective of QA/QC is to provide high-quality inventory of GHG.



# Elements of the national system of quality assurance and control

- Authority responsible for the inventory and coordination of QA / QC,
- Plan quality assurance and control inventory QA / QC,
- General quality control procedures (Tier 1 method)
- Detailed, specific for the source categories, quality control procedures (Tier 2 method)
- Procedures for review of the quality assurance process,
- Reporting, documentation and archiving system.



# Procedures of quality control (tier 1)

- Checking assumptions and criteria for selection of activity data and emission factors.
- Checking the input data and their origin for errors.
- Validation of emission calculations.
- Verify that the unit parameters and emissions are properly implemented, and the respective conversion rates are applied.

# Procedures of quality control (tier 1)

- Checking the homogeneity of data sets
- Checking the inventory data at different levels of computing.
- Checking the uncertainty of emissions and removals are estimated correctly
- Undertake a review of internal documentation.
- Checking changes in data and methodological changes arising the recalculation.
- Checking completeness.
- Comparison of current and previous estimates

# Procedures for QC – Tier 2

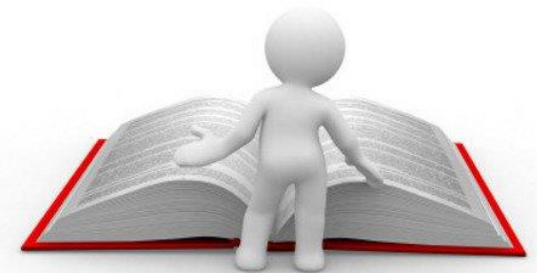
- Performed QC procedures for all categories of the IPCC performed according to the method Tier 1
- The expanded inspection procedure (method Tier 2) is carried out for the main categories in sectors such as energy, industrial processes, **agriculture, forestry** and waste.
- Expert reviews of **input data** and **emission factors** and **methods used**

# Procedures for quality assurance (QA)

- QA shall be used to verify the assumptions made in estimating emissions and its results
- It should be carried out by external experts from research institutes, professional associations, chambers of industry or individual plants, depending on the sector.
- Making direct contact with experts to exchange information and determine the correct data.

# Documentation, Archiving and Reporting

- Effective management of the process of preparing an inventory of GHG requires the application of appropriate archiving procedures aimed at collecting internal documentation related to the different stages of development, reporting control of the national inventory
- Development of the *Data Management Manual*





# Thank you!

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