



Monitoring for Environment and Security in Africa (MESA)

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Outline

- Political framework
- Implementation
- Objective & expected results
- Thematic actions & services
- Programme structure



Political framework



African Union Commission



European Union



ACP Secretariat

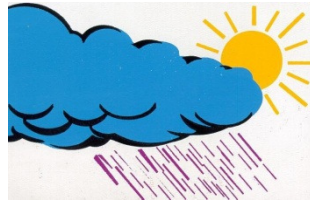


5 African Regional Economic Communities



Implementation

- 2013-2018 EU-Funded (37 Millions Euro – EDF)
- 6 Regional Implementation centers & 1 Continental Implementation Centre:

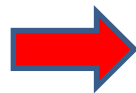


- Main partners:

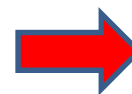


- Technical Assistance

PUMA



(2007-2013)



(2013-2018)



Objectives

To help African governments in designing, implementing, monitoring and evaluating their regional and continental policies towards sustainable development



Increase information capacity of African regional and national institutions



Expected results

- **Improved access to EO data**
- **Operational information services are established**
- **Cross-fertilisation and continentalisation of services**
- **Political and policy frameworks are strengthened**
- **Adequate technical level is ensured**

Services:

1. Early warning system of water levels in the major sub-basins of the region
2. Monitoring the hydrological cycle in the major sub-basins of the region:
 - Monitoring the water balance of the major sub-basins (flow levels & rates)
 - Estimation and monitoring of flooded forest in the central basin areas

CEMAC

RIC: CICOS



THEMA: Management of Water Resources (for fluvial transportation and environmental assessment)





IOC

RIC: MOI



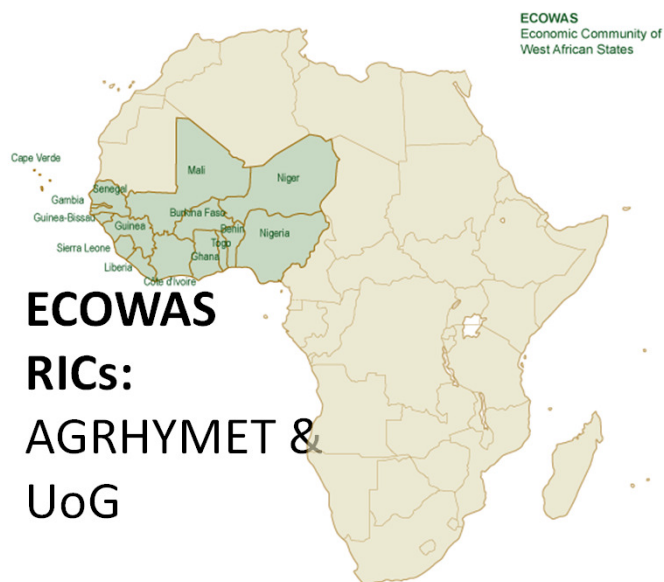
THEMA: Coastal and Marine Resource Management

Thematic Actions & Services

Services:

1. Marine Resources Management
 - Oceanographic charts for detection of Potential Fishing Zones (PFZ)
 - Monitoring of oceanographic variables (Biological & Physical)
2. Monitoring of Coastal Environment
 - Surge, winds, currents & waves monitoring





THEMAs:

1. Water Management for Cropland and Rangeland Management
2. Coastal and Marine (New) Resource Management

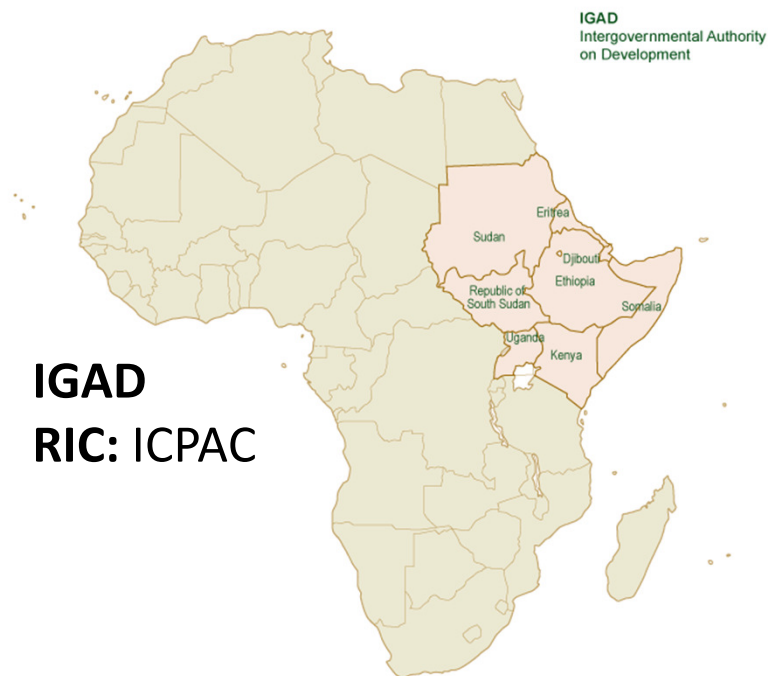
Services:

1. Land THEMA:

- Rangelands for livestock
- Bush fires
- Drought
- Culture

2. Marine THEMA (New)

- Marine Resources Management
 - Oceanographic charts for detection of Potential Fishing Zones (PFZ)
 - Monitoring of oceanographic variables (Biological & Physical)
- Monitoring of Coastal Environment
 - Surge, winds, currents & waves monitoring



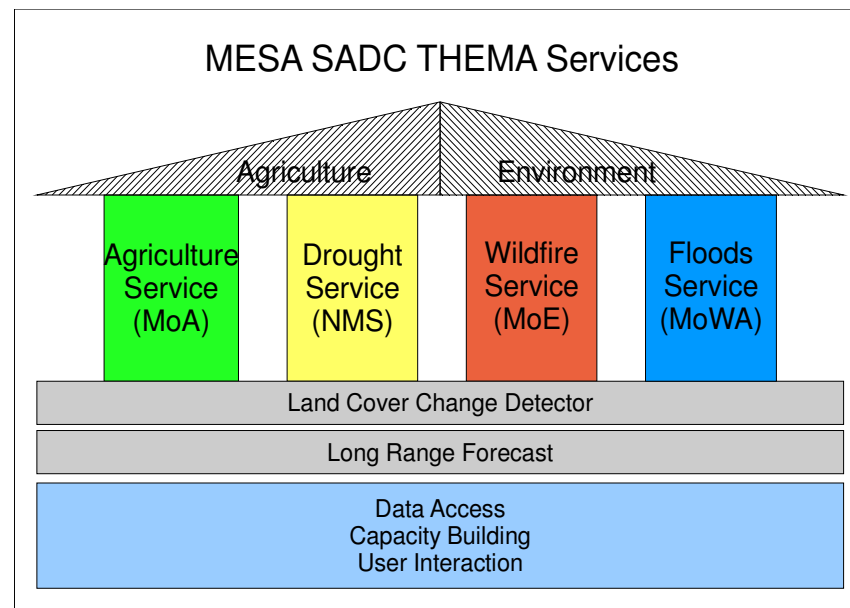
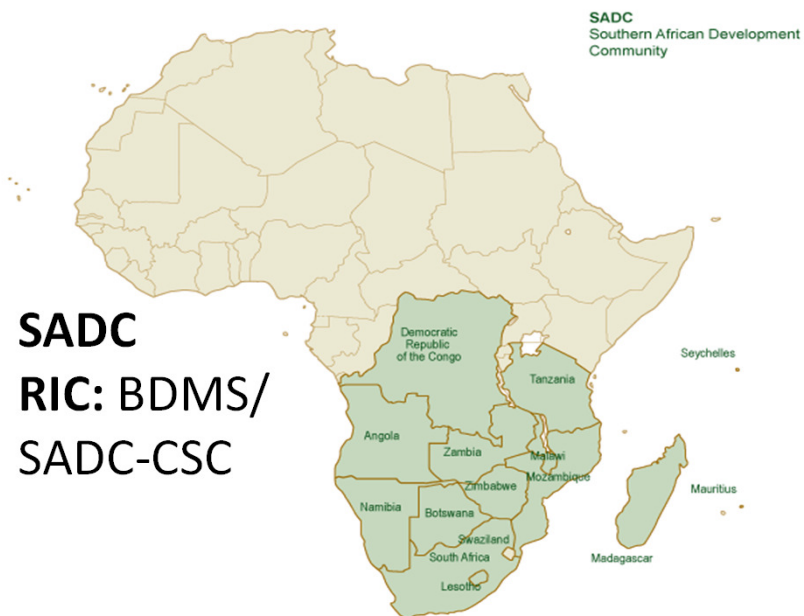
Services:

- Land degradation
- Natural habitat conservation
- Forest monitoring* (tracking depletion & degradation)

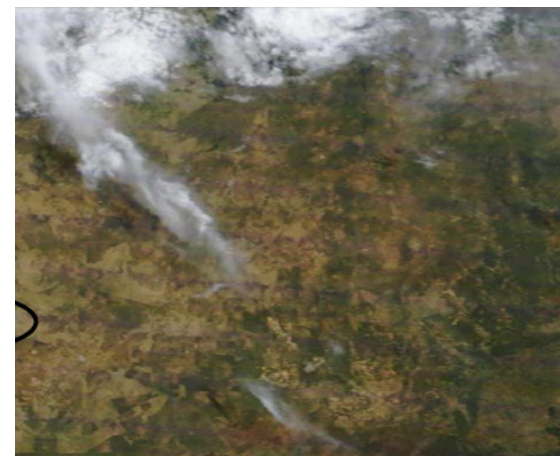
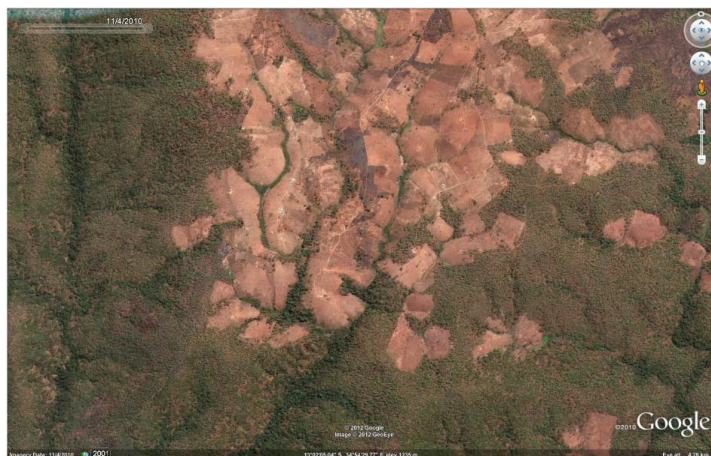
THEMA: Land Degradation Mitigation & Natural Habitat Conservation & Forest Information System*

* New Service

Services:



THEMA:
Agricultural &
Environmental
Resource
Management



- ❑ Services (using GIS & RS analysis tools):
 - Climate Change Assessment
 - Drought Monitoring and Forecasting

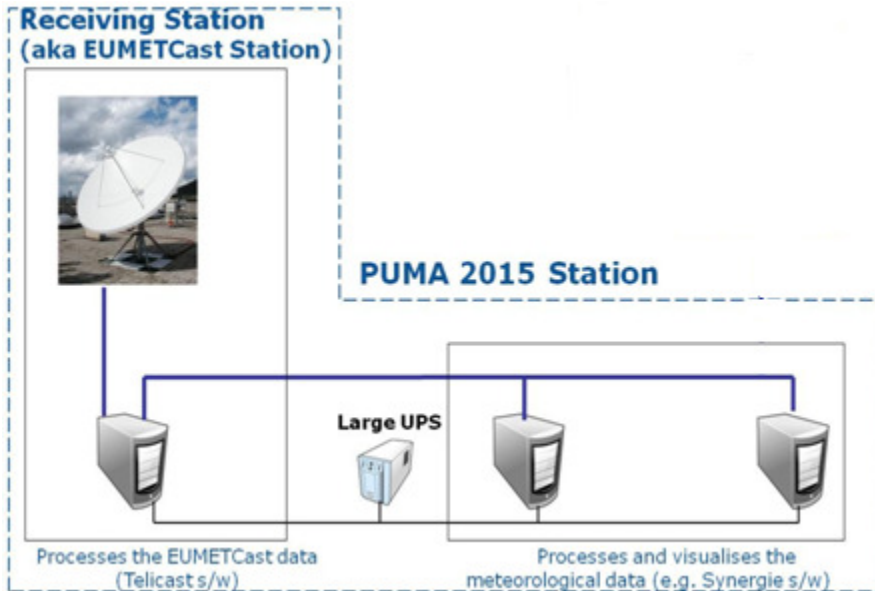
ACMAD



NEW THEMA: Support to Climate Services (Climate Change Monitoring)

Some AMESD achievements

- Infrastructure maintenance, upgrade, installation new PUMA and MESA receiving stations (107), 47 countries
- Equipped 4 African Training Institutions and trained over 1000 experts, trainers of trainers, and policy makers
- Policy influence



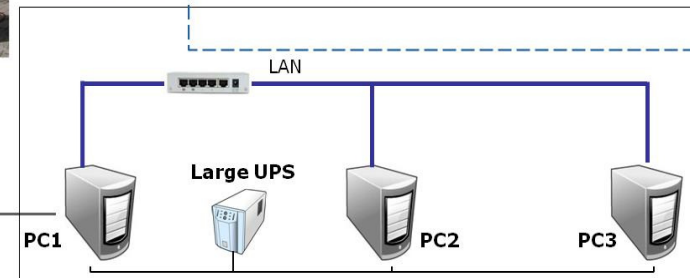
Receiving Antenna



Main goal of the **FULL** Station is to ensure Operational Services:

1. HW redundancy between PC2 and PC3
2. Large UPS

MESA Full Station

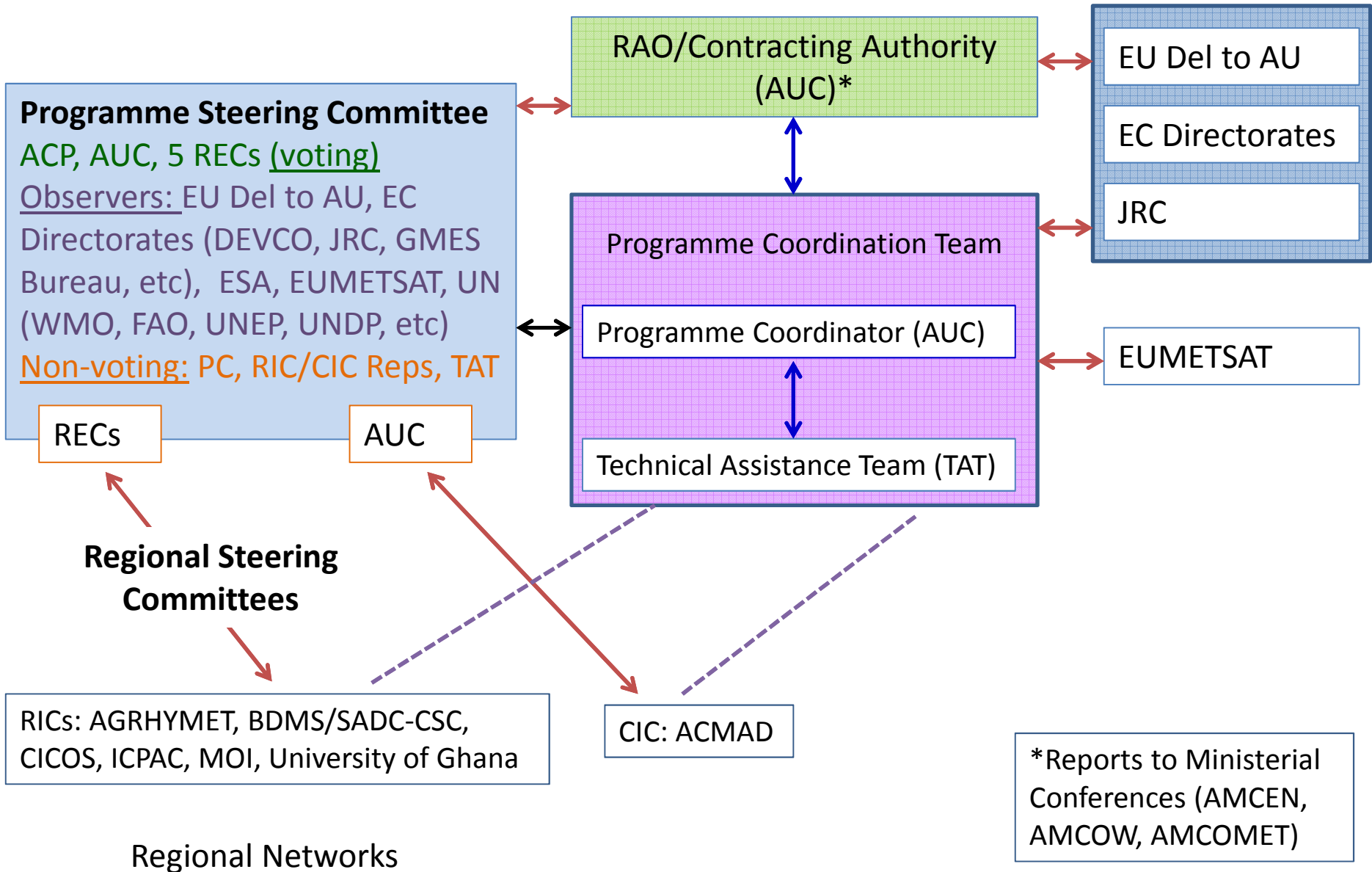


PC1: Receive data from EUMETCast

PC2: Processing
PC3: Visualization



Programme Structure





Thank You!

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