

GMES & Africa – Marine and Coastal Areas Workshop

Mombasa Kenya – 9 – 10 October, 2012.



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Presentation Outline

EDF Programmes (2001- 2018)



- General Introduction
- PUMA Programme
- AMESD Programme
- MESA Programme

General Introduction



- Three major EDF supported programmes – PUMA, AMESD and MESA
- The programmes covered at least 48 countries
- Five Regional Economic Communities in ACP and African countries

PUMA/Meteorological Transition Programme 2002 - 2006

- Installed EUMETCast Receiving Stations in Meteorological Services in all participating countries in the five RECs
- PUMA was seen as largely successful as it enhanced the operational performance of the National Meteorological Services

MTAP/PUMA

- The Meteorological Transition in Africa/Preparation for the Use of Meteosat [Second Generation] in Africa (MPTA/PUMA) was the first pan-African initiative in support of Earth Observation technologies for meteorological purposes

PUMA Programme (contd)

- Human capacity of Met Officers developed
- Infrastructure provided
- However no provision for global maintenance
- Follow up programme delayed

AMESD Programme –

Overview

- African Monitoring of Environment for Sustainable Development (AMESD)
- Designed as a follow up to PUMA
- To build on the gains of PUMA
- Experienced a lot of delays in the start up because of its complexity – no. of countries, different Thematic Areas etc



AMESD political framework

- A partnership between the RECs, ACP Secretariat, AUC and EU
- A continental wide, pan-african project for the development of geoinformation services



African Union
Commission



European
Union
Commission
9th EDF

5 Regional Economic Communities
CEMAC, ECOWAS, IGAD, IOC, SADC

+ ACP Secretariat

International partners
(Eumetsat, JRC, WMO, UNEP,
UNECA, FAO)



AMESD general purpose

To improve decision making-processes in the fields of environmental resource and environmental risk management in Africa:

- By increasing the information management capacity of African regional and national institutions mandated for environment-related sectors, and
- By facilitating access to Africa-wide environmental information derived from EO technologies
 - To allow “Informed decision”



AMESD operational objectives

- Result 1 : Improved access by African users to existing basic Earth observation, field and ancillary data
- Result 2 : Operational information services are established to improve decision-making processes in the fields of environmental management and other policies
- Result 3 : Political and policy development frameworks are strengthened to ensure active and sustainable participation of African governments in global environmental surveillance.
- Result 4 : An adequate technical level of AMESD African stakeholders is permanently ensured

AMESD Implementation Status

- Timeframe 2007 – 2013
- Total Budget 21 Million Euro from 9th EDF
- 5 RICs – AGRHYMET, CICOS, ICPAC, BDMS & MOI
- 111 Satellite Receiving Stations installed in countries & PUMA Stations upgraded

Implementation (contd)

- 12 Environmental Information Services developed
 - Monitoring fire service (SADC)
 - Land degradation monitoring service (IGAD)
 - Vegetation & Drought Monitoring (ECOWAS)
 - Low water alert monitoring (CEMAC)
 - Detection of potential fishing zones(IOC)



AMESD Themes

Regional Economic Community - REC	Regional Thematic Action THEMA	Regional Implementation Centre - RIC
CEMAC	Management of Water Resources	CICOS (Commission Internationale du bassin Congo-Oubangui-Sangha), Kinshasa (DRC)
ECOWAS	Water Management for Cropland and Rangeland Management	AGRHYMET (Centre Régional en agro-météorologie et hydrologie, Niamey (Niger)
IGAD	Land Degradation Mitigation and Natural Habitat Conservation	ICPAC (IGAD Climate Predictions and Applications Centre), Nairobi (Kenya)
IOC	Coastal and Marine Management	MOI (Mauritius Oceanography Institute), Quatre-Bornes (Mauritius Island)
SADC	Agricultural and Environmental Resource Management	BDMS (Botswana Department of Meteorological Service), Gaborone (Botswana)

Training and Capacity Building

- Capacity building an essential component of AMESD
- Training for both Technical and Thematic
- Technical – EUMETCast, e- station
- Thematic – Global and continental indicators; Basic remote sensing products; Thematic products;
- Others – Training of trainers; EDF rules

Status – Closing Phase Q1 2013

- Most of the PUMA and e- stations are functioning except where there is challenge of irregular electric power supply
- Capacity building on- going
- Sensitization and awareness on going
- Technical Assistance handed over to RICs
- Continental workshop on AMESD for Policy Makers in Africa held



MESA Introduction

- The Monitoring of Environment and Security in Africa (MESA) program will build on the on-going AMESD using Earth Observation (EO) data and information products for environmental security



Introduction (contd)

- Time frame 2013 – 2018
- By strongly supporting environment and climate objectives through the use of EO tools, MESA contributes to:
 - Strategic Partnership no. 6 on CC & Environment and
 - no.8 on Science and Space

MESA – Global Budget



The overall budget of the program is estimated at EUR 40,000,000 consisting of:

- ACP – EUR 20 million
- CEMAC – 2 million;
- ECOWAS – 5 million;
- IGAD & IOC – 5 million;
- SADC – 5 million;
- JRC – 3 million in - kind contribution .



MESA - Objectives

- Infrastructure support
- Consolidate and further develop information services in the thematic areas addressed in AMESD
- Promote cross- fertilization among participating RECs



MESA Objectives (contd)

- Strengthen political and policy development framework
- Capacity development and training of African stakeholders at continental, regional and national levels



STATUS and Next Steps

- EDF Committee accepted the MESA program on 29 Nov 2011
- Financing Agreement has been signed early 2012
- Three major preparatory workshops conducted

STATUS & Next Steps (contd)



- Technical Assistance Team to be in place in the beginning of 2013
 - New RICs to be named 3rd quarter of 2012
 - Seven (7) Thematic areas to be covered as against five (5) in AMESD
- Grant agreements to be signed in mid 2013 for Thematic actions to commence
- Training activities start in mid 2013
- MESA will employ the AMESD receiving stations, similar but enhanced software to deliver additional services



THEMATIC ACTIONS

- All five Thematic Areas in AMESD to continue
- ECOWAS and IGAD to implement two Themes each
- One Continental Thema on Climate Services to be implemented



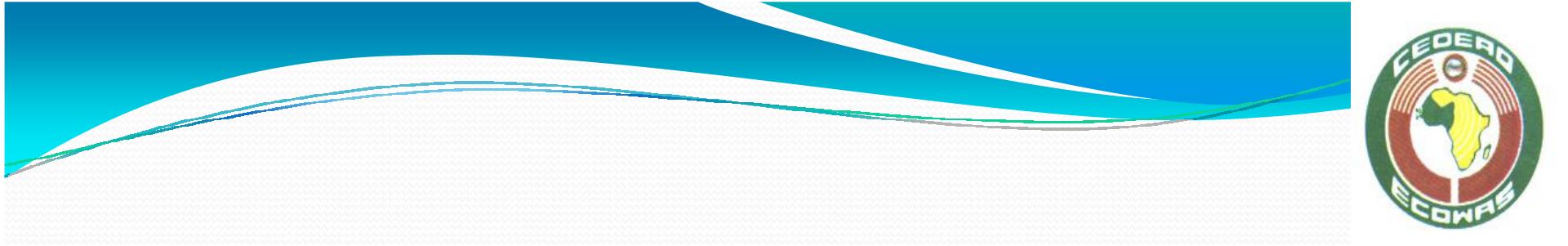
New Thematic Areas ---Status

- RIC for Forest Monitoring for IGAD
- RIC for Coastal and Marine Monitoring for ECOWAS
- CIC for Climate Service for the continent – all to be appointed by 3rd Quarter 2012 and Grant documents prepared by Q1 2013

GMES & Africa and AMESD/MESA



- AMESD/MESA have activities in line with the GMES Africa Action Plan
 - Infrastructure; Capacity building
 - Institutional development
- All the Thematic Actions by AMESD/MESA are within the 8 themes identified in GMES Action Plan; contribute to GMES & Africa
- AMESD/MESA focus on Sub-Saharan Africa due to EDF rules, GMES & Africa is continent wide



THANK YOU !!!