



GMES & Africa – Water Resources Management Workshop.

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Presentation on EDF Prog (2001- 2018)



1. General Introduction
2. PUMA Programme
3. AMESD Programme
4. MESA Programme
5. Conclusion

1. 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

2. PUMA/Meteorological Transition Programme 2002 - 2006



- PUMA-Preparation for the Use of Meteosat (Second Generation) in Africa
- First pan-African initiative in support of EO technologies for meteorological purposes
- Installed EUMETCast Receiving Stations in Meteorological Services in all participating countries in the five RECs
- PUMA - largely successful- as it enhanced the operational performance of the National Meteorological Services

PUMA Programme (contd)



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

3. 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 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”



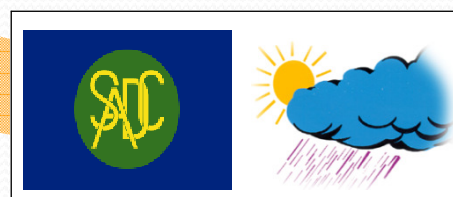
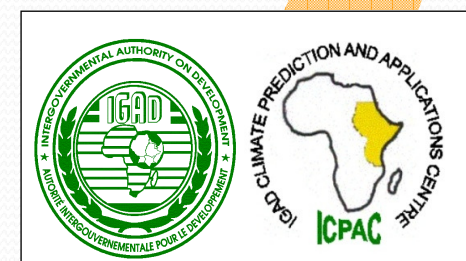
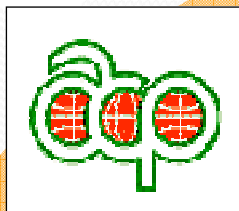
AMESD operational objectives

- 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 Themas

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)





AMESD Implementation Status

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

Implementation (contd)



- 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)

Training and Capacity Building



- Capacity building as essential component of AMESD
- Training for both Technical and Thematic areas:
 - 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 with challenges of irregular electric power supply
- Several capacity building, sensitization and awareness programs held, including workshop for Policy Makers
- Technical Assistance handed over to RICs/AUC

4. MESA: Introduction



- The Monitoring of Environment and Security in Africa (MESA) program is built on AMESD, using EO data and information products to ensure environmental security
- By supporting environment and climate objectives through use of EO tools, MESA contributes to:
 - Strategic Partnership No. 6 on CC & Environment
 - No. 8 on Science and Space
- Time frame: 2013-2018

MESA – Global Budget



Overall budget of MESA program is estimated at EUR 40,000,000:

- **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 thematic areas addressed in AMESD
- Promote cross- fertilization among participating RECs
- 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 signed early 2012
- Three major preparatory workshops conducted
- 4th workshop in March 2013 reviewed draft Grant Agreements

STATUS & Next Steps (contd)



- Technical Assistance Team in place in the beginning of 2013
- Seven (7) Thematic areas to be covered as against five (5) in AMESD
- New RICs and Continental Implementation Centre (CIC) selected
- Draft Grant Agreements under review, to be signed in mid 2013 for Thematic actions to commence
- Training activities start in mid 2013
- MESA will employ the AMESD receiving stations, with enhanced software to deliver additional services

THEMATIC ACTIONS



- All five Thematic Areas in AMESD to continue
- ECOWAS and IGAD to implement two Themas each:
 - New RIC for Forest Monitoring (IGAD)
 - New RIC for Coastal and Marine resources Monitoring (ECOWAS)
- One Continental Thema on Climate Services to be implemented

5. Conclusion: GMES & Africa and AMESD/MESA



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



THANK YOU !!!