




Status on African Space Policy & Space Strategy

AMCOMET Experts Meeting
Cabo Verde
10 February 2015







Overview

-  Process
-  African Space Policy
-  African Space Strategy
-  Expectations

Process

Process

-  **CITMC: Fourth Session of the AU Conference of Ministers in Charge of Communication and Information Technologies**
-  **AMCOMET: Second Session of the AU Conference of Ministers Responsible for Meteorology**
-  **AMCOST: Fifth Session of the AU Conference of Ministers in Charge of Science and Technology**
-  **Ex. Council Decision (739, 744, 746):**
Fragmented space activities and need for coordination

Process

- Finalisation of the Policy and Strategy

- Consultations

 - AU Policy Organs

 - Member States

- Approval

 - June 2015 AU Summit

- Governance

African Space Policy

Additional Considerations

- 🌐 Near final version emerging
- 🌐 Three issues for consideration
 - 🌐 Principles relating to gender parity
 - 🌐 Reference to regulating space activities (USA Intervention)
 - 🌐 Reference to Meteorology

Gender Parity

It is imperative that the benefits accruing from and the involvement in continental level space activities must reflect gender parity and promote the empowerment of women, as a way of advancing development and reducing poverty. Women who are healthy, educated and confident contribute to the health and wellbeing of whole families, communities and their nations. Thus, promoting the political, economic and social status of women is a critical precursor for advancing the development of the African continent and therefore priority attention must be placed on ensuring gender equality in space activities, both in terms of participation and the recipients of associated benefits. This imperative will be driven across all policy principles advocated for in this document. (Introduction)

Regulatory

To regulate space activities. The African space programme will need to be regulated in order to guarantee attainment of the strategic objectives. Conflicts of interest will need to be managed. A regulatory environment will need to be created to allow industrial entities to access space technology and promote African commercial private sector participation in the space arena. **A regulatory framework should be developed and implemented to ensure effective compliance with international treaties and conventions.** The indigenous space programme must be compliant with national, continental and international laws and regulations. (para 4.5.3)

Meteorology

To develop and enhance early warning systems on the continent. As a continent Africa is subjected to various extreme weather, climate, ecosystem and geological events such as tropical cyclones, heavy or a lack of precipitation, heat waves, dust storms, red tides, and tsunamis, which can lead to loss of life and property, and critical services. A combination of space applications will be used to improve, amongst others, weather forecasts to develop a range of early warning systems (such as flood, drought and health early warning systems).

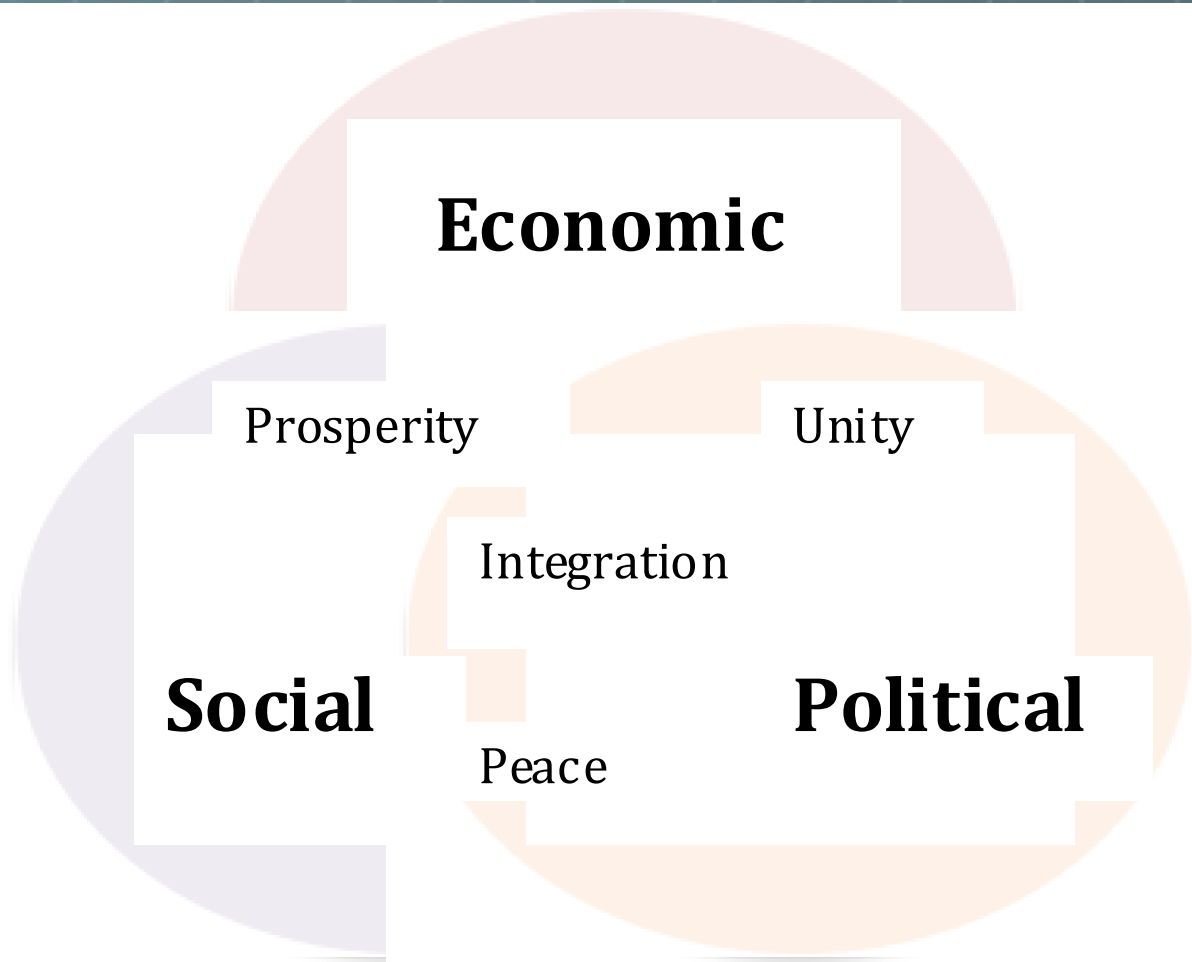
(para 4.1-6)

African Space Strategy

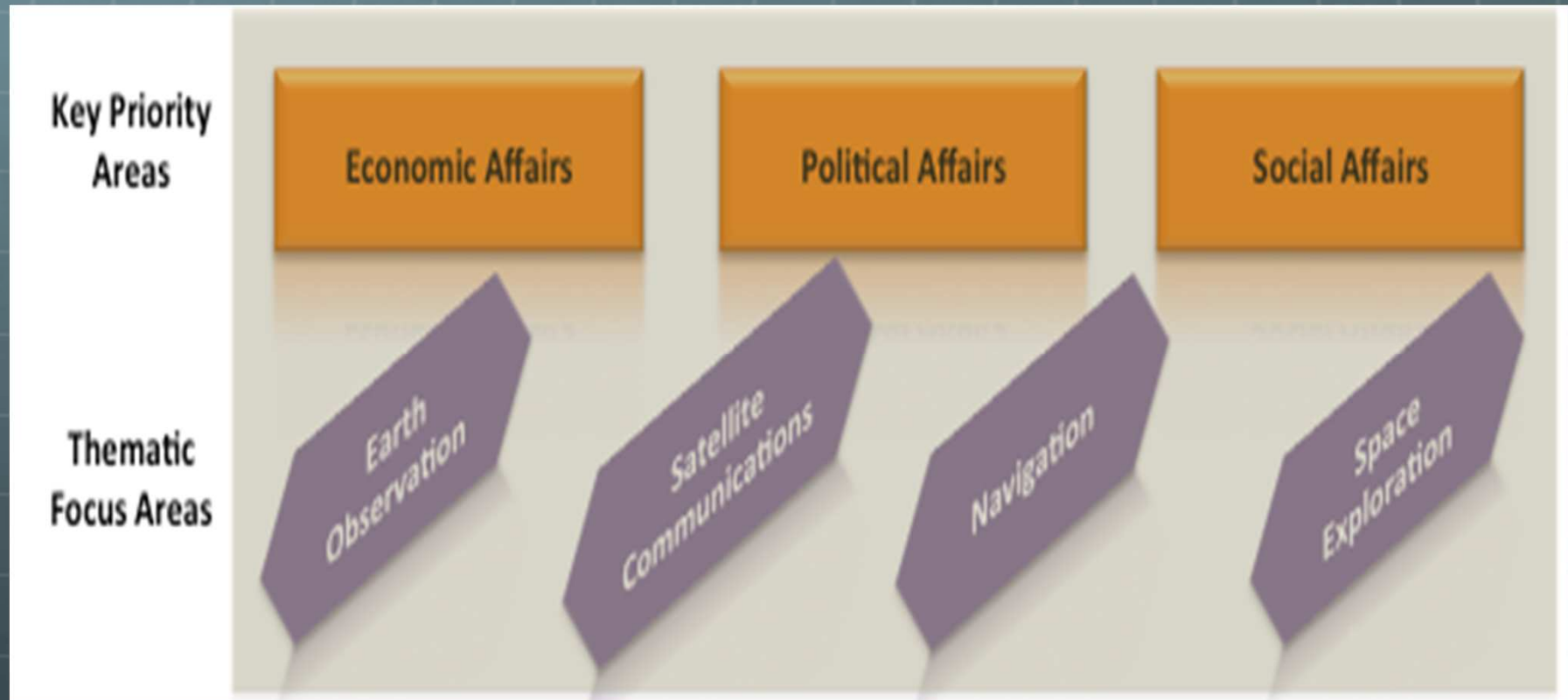
AU VISION

“An integrated, prosperous and peaceful Africa, is driven by its own citizens and represents a dynamic force in the global arena.”

African Space Strategy



African Space Strategy



African Space Strategy

Disasters

Health

Energy

Climate

Water

Weather

Ecosystems

Biodiversity

Peace &
Security

Education

Communication

Trade &
Industry

Transport

Infrastructure

African Space Strategy

User Needs	Earth Observation											Navigation and Positioning	Satellite Communications	Space Science and Astronomy
	Spatial Resolution								Temporal Resolution					
	< 50cm	50cm-1m	1m-2.5m	2.5m-5m	5m-10m	10m-20m	20m-30m	>30m	Daily	Seasonal	Annual			
Disasters	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Health					✓	✓				✓		✓	✓	
Energy				✓	✓	✓					✓	✓	✓	✓
Climate					✓	✓			✓			✓		✓
Water		✓	✓	✓	✓	✓	✓	✓		✓		✓		
Weather		✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Ecosystems				✓	✓	✓	✓	✓		✓		✓		
Agriculture				✓	✓	✓	✓	✓	✓			✓	✓	
Biodiversity				✓	✓	✓	✓	✓			✓	✓		
Peace, Safety and Security	✓	✓	✓		✓			✓	✓			✓	✓	✓
Human Migration and Settlements		✓	✓	✓							✓	✓	✓	
Education and Human Resources				✓	✓	✓	✓	✓			✓	✓	✓	✓
Communications												✓	✓	✓
Trade and Industry			✓	✓	✓	✓	✓	✓		✓		✓	✓	
Transport		✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	
Infrastructure			✓	✓	✓	✓			✓			✓	✓	

Flow of Strategy

Flow of Strategy

- 1. Introduction
 - African Policy and Strategy instruments
 - Global space economy (OECD)
- 2. How space can address Africa's challenges
 - EO, Navigation, Comms, Space Science & Astronomy
- 3. Situational Analysis
 - SWOT analysis and proposed response



Flow of Strategy

4. Strategic Context

Vision

An African Space Programme that is user-focused, competitive, efficient and innovative

Goals

-  Space-derived decision-making services and products used for addressing the economic, political, social and environmental challenges on the continent.
-  An indigenous space capability, both in the private and public sectors, that defines an independent, coordinated and effective space programme.

Flow of Strategy

- 🌐 Strategic actions
 - 🌐 Addressing user needs
 - 🌐 Accessing space services
 - 🌐 Developing the regional and international markets
 - 🌐 Adopting good governance and management
 - 🌐 Coordinating the African Space Arena
 - 🌐 Promoting international cooperation

Flow of Strategy




5. Implementation Guidelines

-  Thematic Focus Areas – earth observation, navigation & positioning, satellite communications, space science and astronomy
-  Functional programmes - mission requirements, enabling technologies, mission operations, space applications
-  Supporting platforms – HCD, Infrastructure, Industry, international partnerships

6. Conclusion

Expectations

Expectations

-  Provide inputs into the African Space Policy and African Space Strategy
-  Endorse the African Space Policy and African Space Strategy
-  Implementation plan to follow



THANK YOU

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