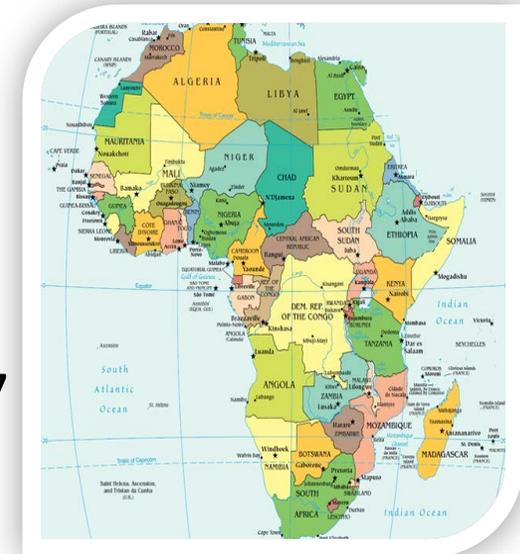


EGNOS AFRICA JPO: Support to EGNOS in AFRICA

**ACAC GNSS Workshop”
5th of April 2016, Rabat-Morocco**

OUTLINE

- Introduction - background of JPO
- JPO Organisation setup
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- The proposed roadmap for EGNOS services implementation
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Introduction- background of JPO

- EGNOS Africa JPO is key outcome of the Joint Africa-EU Strategy (JAES) regarding Africa-EU cooperation on satellite navigation - 3rd Africa-EU Summit in 2010 in Tripoli
- Operationalization of Africa-EU cooperation on satellite navigation: The ACP/EC framework Programme '*Support to the Air Transport and Satellite services applications in Africa*' (SAFIR) was launched in 2012
- Two projects of the framework Programme, SAFIR and TREGA, addressed the Set-up, staffing and operationalization of JPO also capacity building for African stakeholders through working sessions
- Continuity of JPO is ensured through The Pan' Af programme, adopted in November 2015, with the Action 'Support Programme to EGNOS in Africa'



JPO organisational setup

- JPO consists of 10 staff members, recruited after TREGA training sessions
- JPO expertise encompasses various multi- disciplinary domains including:
 - GNSS systems
 - Gns applications for Aviation
 - GNSS applications for non-Aviation sectors
 - Legal and economic expertise
 - Certification
 - Programme Management
 - General management
- JPO Office: is currently located in Dakar, hosted and supported by ASECNA in own premises



JPO main activities and achievements (2014-2015)

- **Main Activities undertaken by JPO**

- Promotion and awareness activities
- Development of a roadmap for EGNOS services implementation
- Definition of possible JPO short term legal and institutional framework
- Development of JPO Action plan (post-SAFIR)

- **Key achievements :**

- Possible JPO short term legal and institutional framework
- the Roadmap for GNSS/EGNOS services implementation

Support to the definition of possible JPO short term legal and institutional framework

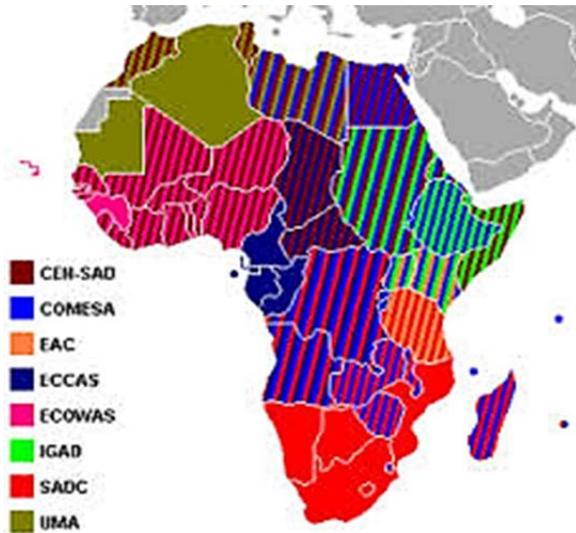
- Objective: To facilitate the establishment of a coordinated framework of EGNOS implementation in Africa
- Methodology:
 - Stakeholders analysis shows AUC has a leading role - AFCAC as a short term vehicle for JPO
 - Strategic analysis of JPO mandate call for a pan-African dimension entity, with financial sustainability
- Recommendations for the legal status:
 - an “Autonomous Entity of the Originating Organization (AUC/AFCAC)”
 - based on a tripartite framework - AUC/AFCAC, EC and the hosting Partner, ASECNA
- the evolution towards a long term solution through AUC and AFCAC
- A High Level Event (HLE) on Aviation planned this Year (under AUC) on the subject

The proposed roadmap for GNSS/EGNOS services implementation: purpose and objective

- Purpose: To assist States for harmonized introduction of cost-effective EGNOS/SBAS services, based on modular implementation strategy
- Where a 'module' is defined as a Stakeholder or Group of Stakeholders acting together to implement EGNOS
- Objective: to provide the necessary guidelines for EGNOS deployment in Africa through modular implementation (by 2028) with full SBAS coverage of Africa as a long-term goal for Africa (2028-38)
- Proposed modules: Regional cooperation framework through the RECs with due consideration of ongoing initiatives (ASECNA, MEDA/ACAC, South Africa)

Deployment Strategy: establishment of modules

- Four modules have been identified for Africa:
 - Northern (M1),
 - West-Central (M2),
 - Eastern Africa (M3),
 - Southern (M4)



The strategy for implementation

- Scenario for implementation :
 - Extension
 - Autonomous
- Strategy for deployment includes
 - Incremental approach, sharing of assets
 - Exploiting synergies with Europe
 - Consideration of the transition from V2 to V3
 - Consideration of the certification, operations and adoption by users
- Assumption: the responsibility for the funding strategy (CAPEX and OPEX) lies with African stakeholders implementing EGNOS

Proposed services to target and timeline

EGNOS v2 L1 services	Date
Open Service GPS	2020
Safety of Life NPA GPS	2021
Safety of Life NPA+APV1+LPV200 GPS	2023

EGNOS v3 DFMC services	Date
Open Service GPS, GPS+GALILEO	2025
Safety of Life NPA GPS, GPS+GALILEO	2026
Safety of Life NPA+APV1 + LPV200 GPS, GPS+GALILEO	By 2028
Safety of Life Maritime	<i>tbd</i>
EDAS services	<i>tbd</i>

JPO under Pan' Af programme, - 'Support Programme to EGNOS in Africa' (2016-2017)

Main objective of Pan'AF Programme 'Support to EGNOS in Africa' is to ensure continuity of JPO programmes.

Main Activities:

- Support the process for the adoption of the preliminary decision for the establishment of modules, including support to regional initiatives
- Undertake the communication and awareness activities and strengthen capacity building on GNSS/EGNOS
- Support the JPO institutionalisation process

JPO coordination support activities -2016-2017

Support RECs/States 'Modules' establishment

- the development of Legal and institutional requirements
- the capacity building for the modules
- the EGNOS adoption: market assessment/promotion by States-RECs

Support to continental
planning of SBAS and
initiatives

General promotion of SBAS for
Africa (Regional Forums, APIRG,
IWG, EGEP)

Support the
institutionalization process of
the JPO

Conclusion

- JPO has completed the deliverables of the first phase of its 'mandate' under the framework programme SAFIR.
- JPO capacity building programme and the proposed roadmap are key achievements on which Africa could capitalize for the future GNSS/EGNOS implementation plans in Africa
- JPO current work programme (under Pan'AF) provides opportunities for collaboration with all African organisations /States and initiatives in supporting their GNSS/EGNOS implementation plan in Africa
- We look forward to further cooperation with ACAC with regards to GNSS/EGNOS implementation plan in Africa

THANK YOU!



EGNOS -AFRICA Joint Programme Office (JPO) | ASECNA, BP 8163 Dakar Yoff, Senegal | Tel : +221 33 820 93 66
| info@eqnos-africa.com; website: www.aviation-africa.eu/JPO