



EU-Africa Space and Transport Cooperation



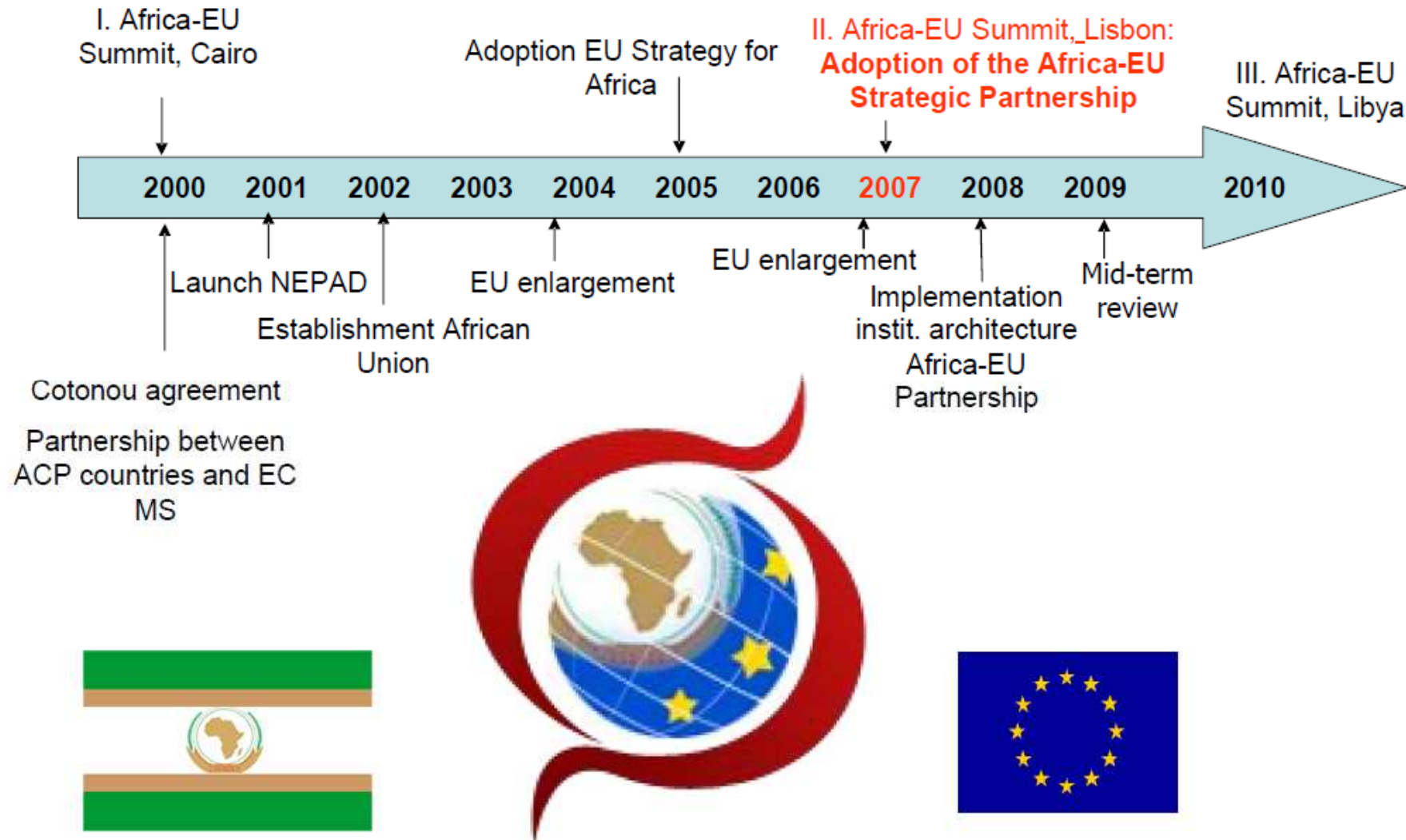
ESESA Workshop II 2nd-3rd March 2011



Outline

- Historical background
- The 3rd and 8th EU-Africa Partnerships content
- Transport cooperation

10 years of EU-Africa dialogue





The EU-Africa Strategic Partnership

- Objectives (Lisbon Declaration - 2007) : To develop a partnership of equals, based on the effective engagement of our societies, in order to achieve significant results in our fundamental commitments, namely:
 - ✓ 1. Attainment of the Millennium Development Goals (MDGs)
 - ✓ 2. Establishment of a robust peace and security architecture in Africa
 - ✓ 3. Strengthening of investment, growth and prosperity through regional integration and closer economic ties
 - ✓ 4. Promotion of good governance and human rights; and
 - ✓ 5. Creation of opportunities for shaping global governance in an open and multilateral framework



The 8 Thematic Partnerships

- Action Plan: Eight thematic Africa-EU partnerships for concrete action with tangible results 2008-2010:
 - ✓ 1. Peace & Security
 - ✓ 2. Democratic Governance and Human Rights
 - ✓ 3. Trade, Regional integration & **Infrastructure**
 - ✓ 4. MDGs
 - ✓ 5. Energy
 - ✓ 6. Climate Change
 - ✓ 7. Migration, Mobility & Employment
 - ✓ 8. Science, Information Society & **Space**





3rd Partnership on Trade, Regional Integration and Infrastructure

■ Objectives:

- ✓ To support Africa's socio-economic and political integration
- ✓ To strengthen regulatory framework (standards, quality control)
- ✓ To improve and sustain infrastructure and services



■ Implementation: creation of regional markets in Africa

- ✓ harmonising laws, regulations, procedures and standards
- ✓ meeting international health and security standards to have better access to international markets
- ✓ reducing the cost and improving the quality of transport services
- ✓ better and safer roads, competitive rail services, efficient ports, safe seas and ports and safe, secure skies and airports



■ Zoom in on civil aviation:

- ✓ regulatory frameworks (Yamoussoukro Decision), air traffic control systems, safety and environmental issues (EU-Africa Aviation Dialogue)
- ✓ satellite technology (notably navigation and positioning)



Transport cooperation

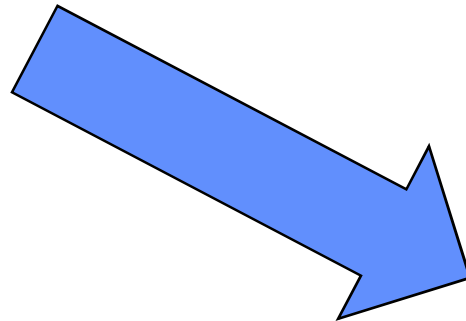
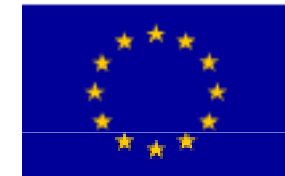
- Partnership between the European Union and Africa: “Connecting Africa and Europe: **working towards strengthening transport cooperation**“ COM(2009) 301 final, 24 June 2009

- Funding sources
 - ✓ 9th EDF (2002-2006, more than €3,000M) and 10th EDF (2007-2013, more than €4,600M)
 - ✓ European Neighbourhood policy (more than €1,500 M) for Mediterranean countries (MEDA)

- Priority: Promoting a safe and effective transport system
 - ✓ Increase safety in maritime transport
 - ✓ **Strengthening safety in the aviation**
 - ✓ **EGNOS in Africa**
 - ✓ Road transport safety
 - ✓ Urban transport

- Objectives:

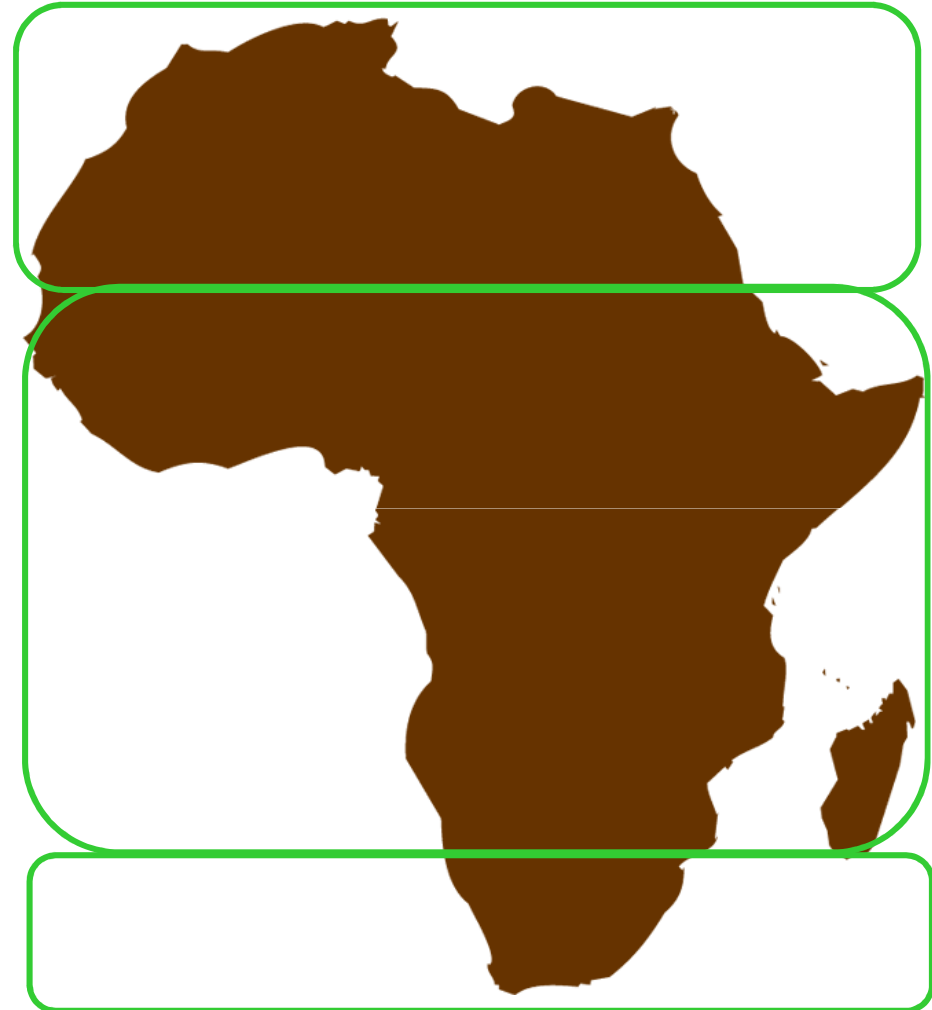
- ✓ Support development of inclusive Information Society in Africa
- ✓ Support S&T capacity building
- ✓ **Enhance cooperation on Space applications & Technology**



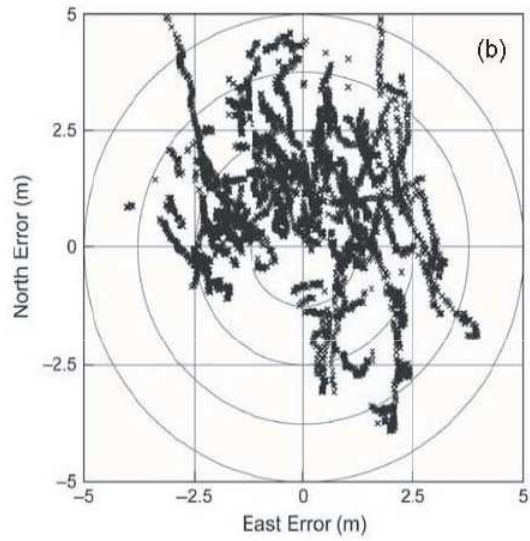
- First Projects:

- ✓ Launch of GMES-Africa project (earth observation)
- ✓ Enhance capacity building in the AUC on Geospatial science
- ✓ **Navigation systems and applications (EGNOS)**

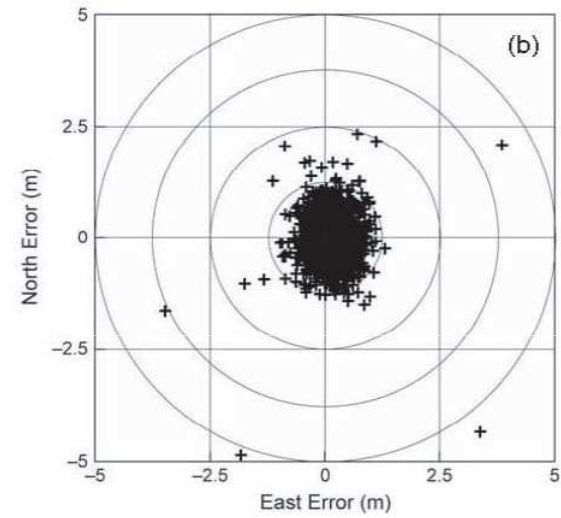
- Euro-Mediterranean Partnership with North Africa + Neighbourhood Policy
- Cotonou Agreement with sub-Saharan Africa
- Agreement on Trade, Development and Cooperation with South Africa
- EU South Africa Space Dialogue



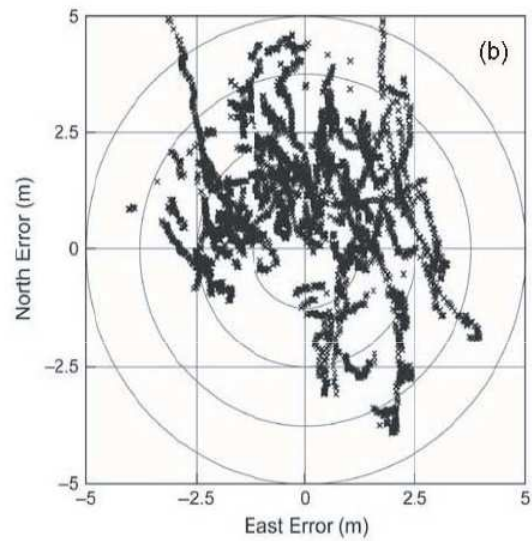




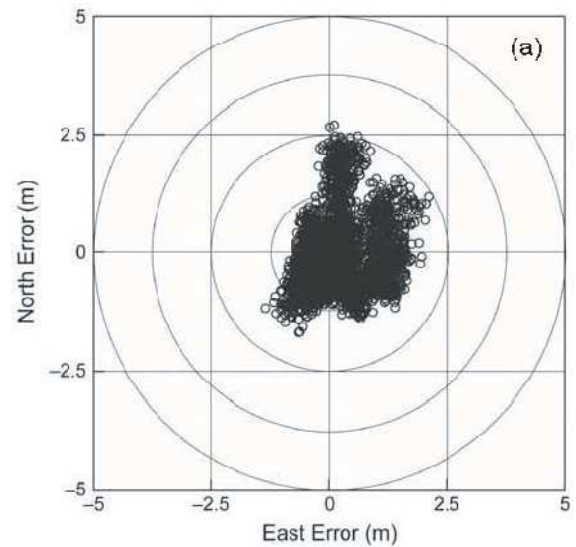
GPS



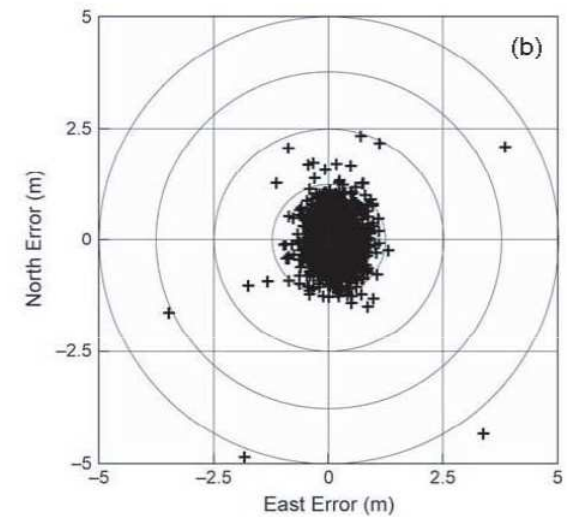
D-GPS



GPS

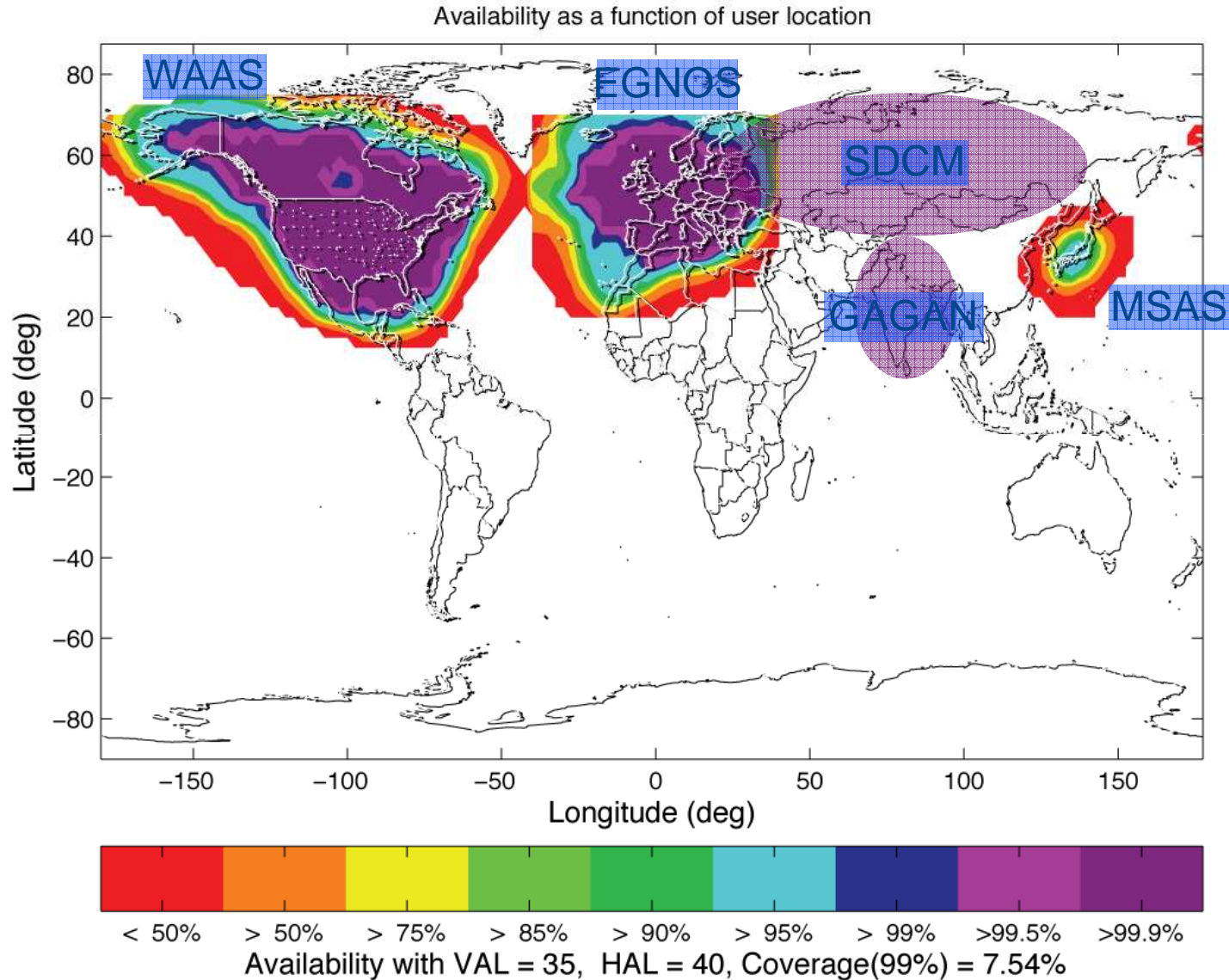


**SBAS
(EGNOS)**

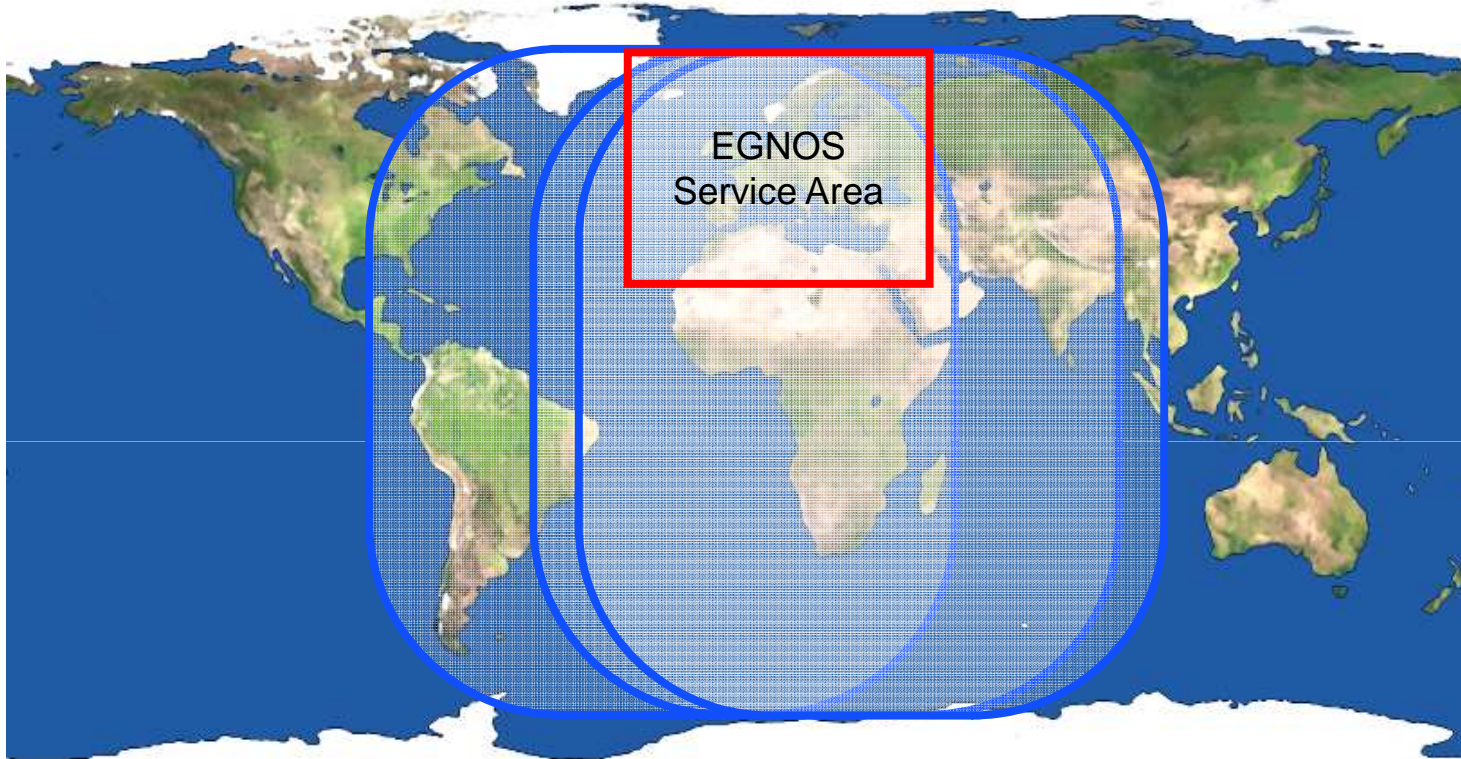


D-GPS

EGNOS is one of many SBAS systems

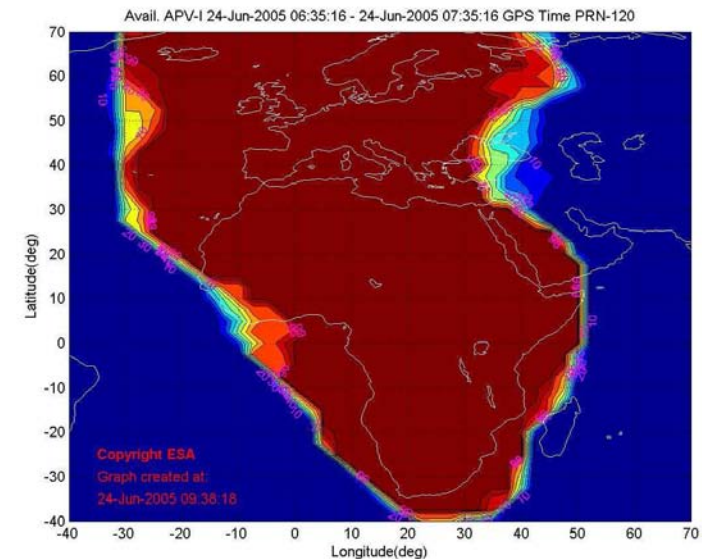


Footprint of EGNOS geostationary satellites



- This means that EGNOS can be extended to Africa at reduced cost
 - ✓ Requires reference and integrity monitoring stations (RIMS) across Africa

- Discussions were started between European Space Agency and APIRG (ICAO's AFI Planning and Implementation Group, GNSS Implementation task force) in 2000-2001.
- An AFI testbed of 10 reference and integrity monitoring stations was implemented and operated between 2003 -2006.
 - ✓ Flight trials were conducted in Dakar and Naroibi
 - ✓ Rail demonstration in Gauteng with Spoornet
 - ✓ SA precision farmers complained to European when it was switched off in mid-2006





Implementation concept & regional extension modules (REM)

