

ESTB

International Trials

2nd ESTB Workshop
Nice, 12 November 2001



European
Commission



EDISA

- EGNOS Demonstration In South America:
 - Wide scale EGNOS trial in the region covering between South West Europe, the South Atlantic, South America and the Caribbean using the ESTB
 - Built upon the ESTB and ECUREV projects
- Not only a demo... but also
 - aimed at creating an opportunity for both European ATS providers present in South and Central America (e.g. Aena) and industry



EDISA Objectives

- Both technical and marketing objectives are addressed
 - Prove that European technology works and is adequate for the region
 - Demonstrate SBAS benefits in the region
 - Encourage local partners to deploy SBAS services in the region
 - Position both European ATS providers and industry in the region
 - Promote the idea of regional interoperability
 - Consolidate technical know-how



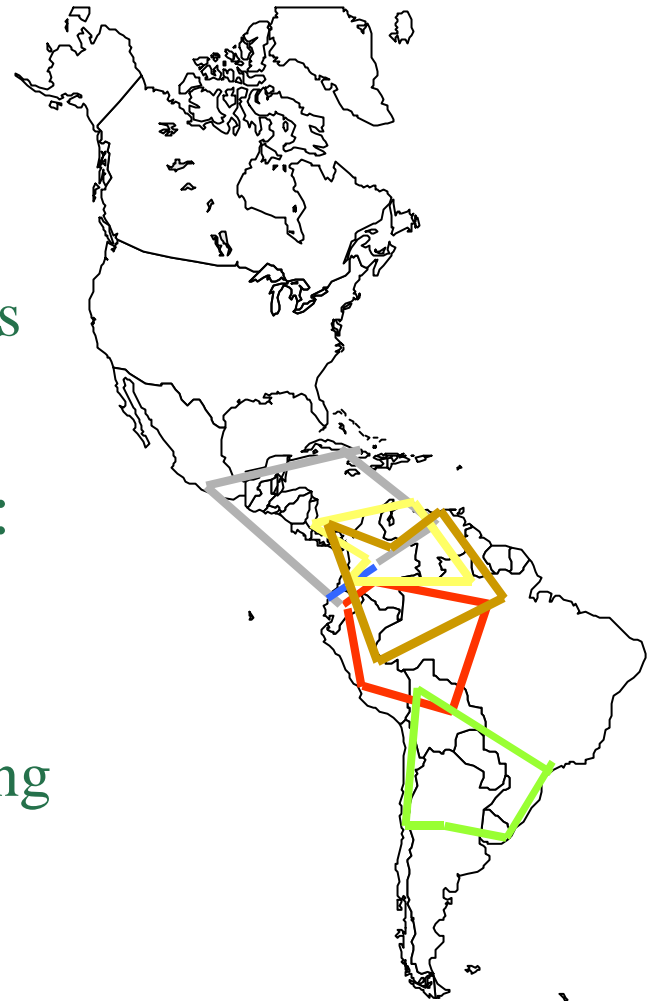
EDISA Scope

- Five main tasks:
 1. Definition of objectives and of a scenario for the test and demo campaign
 2. Identification of partners in the region
 3. Test and demo campaign
 4. Test data analysis and conclusions
 5. Logistics
- Two-step approach:
 - Phase 1 (current): Tasks 1 & 2
 - Phase 2 (2002): Tasks 3 to 5



EDISA: Current Status

- Currently in Phase 1:
 - July-December 2001
 - 5 high level scenarios under analysis
- Common features to all scenarios:
 - Test&demo duration: 1 year
 - Deployment of 5 additional ESTB reference stations in the region during phase 2



ESTB trials in Africa

- A EC/ESA/AFI Working Group was set up in February 2001 in order to detail a roadmap of introduction of GNSS in Africa
- This activity is endorsed by all ICAO AFI States and IATA
- A phased approach has been defined. The initial step is the definition of EGNOS trials in the whole AFI region.
- Initial trials are planned to be held in Dakar



Initial Trials in Dakar

- The objectives of these trials are to:
 - Assess the level of performance achievable in the Dakar area (expected level of performance: APV 1)
 - Set up a demonstration of the EGNOS service capability for both ASECNA and all other AFI service providers, ICAO and users
 - Acquire experience and better knowledge of the ionospheric conditions in the region



Dakar Trials: Current Status

- Feasibility under assessment and project plan in preparation
- Kick-off planned before the end of 2001
- Demonstration planned for second quarter of 2002



MIDAN Project 1/2

- Objective
 - to verify feasibility of SBAS Precision Approach in Eastern Mediterranean - Middle East area (MIDAN)
- Partners
 - The MIDAN demo is a joint ENAV/TPZ/ESA project with the support of Middle East countries (Egypt, Bahrein, Saudi Arabia)
- Demo scenario
 - Precision approaches (APV II) will be performed at Cairo airport with an ENAV flight inspection aircraft



MIDAN Project 2/2

- Architecture

- the ESTB will work jointly with the MTB (Mediterranean Test Bed) for SIS broadcast through Inmarsat IOR
- MTB “portable” stations will be sited in the MIDAN region and used in connection with European ESTB/MTB stations

- Schedule

- The planned date for the demo is end of February 2002 (TBC)



Future ESTB Trials

- Requests for cooperation have been received from many other potential international partners
- Advanced discussions are being held with:
 - MEDA countries
 - Ukraine
 - China
 - India
- Detailed assessment of feasibility of the above trials is planned to be evaluated in the coming months

