



How will Satellite Based Augmentation of the GPS signal benefit the aviation sector in Africa?

A workshop on user needs and the technical and institutional challenges

France Développement Conseil (FDC), NDConsult, Ecorys and the CSIR Satellite Applications Centre take pleasure in inviting you to a workshop on determining the needs and unpacking the technical and institutional challenges for the aviation sector with regards to satellite based augmentation of the GPS and other satellite based navigation signals. The invitation is made possible through the funding of ESESA, a European Union Framework Programme 7 project.

Background

The civil aviation community in South Africa has strongly supported the implementation of an SBAS system for Africa. The EGNOS Service Extension to South Africa (ESESA) project, co-funded by the EU 7th FP and the South African Department of Science and Technology, proposes to progress SBAS implementation in South Africa by engaging all the beneficiary communities in South Africa and by encouraging the novel idea of combined investment in an EGNOS system for South Africa and SADC countries. The adopted stepwise approach for the implementation of the EGNOS infrastructure seeks for early benefits for civil aviation notably the initial development of RNP and RNP APCH operations before implementing a full EGNOS SoL service supporting SBAS LPV approach operations.

The ESESA project aims to explore regional extension models for EGNOS. In particular, it aims at paving the way for the EGNOS implementation phase in southern Africa and SADC by addressing institutional and financial aspects and operational and certification matters, and by developing stakeholders' interest through awareness actions



Civil aviation is recognised as the primary beneficiary of the deployment of SBAS in Southern Africa, but it should be realised that the region is ready to use the system in many spheres of society and industry.

Objectives

This event is not only intended to raise awareness but also to validate with local actors the outcomes of the project as many players in the location based services domain are ready to embrace EGNOS in the region and would like to be kept abreast of developments

More background regarding the project and the technologies involved can be found at www.esesa.org

The workshop is aimed at the envisaged users of accurate satellite navigation information.

Programme

Day 1 – 26th October 2010

9:30 – 10:00 Coffee and Registration

10:00 – 10:20 Welcome and opening session	CSIR
Workshop programme and logistics	FDC and CSIR

Workshop Thread 1: the European GNSS programme and systems

10:20 – 10:35 EU GNSS programme: EGNOS and Galileo	GSA
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10:40 – 10:45 Presentation of ESESA	CSIR
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10:50 – 11:05 EGNOS programme and system	FDC
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11:10 – 11:25 EGNOS operations and performance monitoring	FDC
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11:30 – 11:45 Question session

11:45-12:00 Coffee break

Workshop Thread 2: EGNOS benefits for aviation



12:00 – 12:25 EGNOS Aviation CBA for Africa ECORYS	NDC and
12:30 - 12:35 Benefits for regional airlines, GIANT results	NDC
12:40 – 12:55 South African Airways: a user view	SAA (TBC)
13:00 – 13:15 Question session	
13:15 – 14:00	Lunch
14:00 – 14:15 GNSS and ICAO's new PBN requirements	ATNS (TBC)
14:20 – 14:35 RNAV GNSS approaches	FDC
14:40 – 14:55 Eurocontrol SBAS implementation activities	FDC
15:10 – 15:30 SBAS Airworthiness certification and operational approval SA CAA (TBC)	
15:35 – 16:00 Question session	
16:00 – 16:20 coffee break	
16:20 – 16:30 EGNOS: aviation implementation activities in Europe Question session	FDC
Day 1 closure	

Day 2 – 27th October 2010

09:30 – 10:00	Coffee
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Workshop Thread 3: EGNOS extension for Southern Africa

10:00 – 10:15 EU GNSS cooperation in Africa	GSA/or EC
10:20 – 10:35 EU-South Africa space cooperation	CSIR
10:40 – 10:55 EGNOS regional extension concept	FDC
11:00 – 11:15 EGNOS service provision and certification aspects	FDC)
11:20 – 11:40 Coffee Break	
11:40-12:15 Question session and discussion	
12:15 - 12:45 Workshop conclusions and closure	FDC -CSIR

Requirement and expectations from participants



Participants are not expected to be experts on satellite navigation. They should, however, approach the workshop with general requirements regarding navigation requirements in aviation.

The workshops are free of charge but participants are expected to cover the costs incurred for attendance (travel and accommodation)

Logistics

Date: 26, 27 October 2010

Place:

Emperor's Palace
The Convention Centre - South Wing
Senate 1

Language: English

Information about the venue can be found at
www.emperorspalace.co.za

Points of contact:

WEB: www.esesa.org

e-mail: info@esesa.org

Workshop logistics:

Contact person:

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Workshop registration

Please complete the following or the online form at www.esesa.org, noting the marked compulsory fields.

Please fax or e-mail the completed form to:

e-mail: info@esesa.org

fax: +27 12 334 5001

Please respond by 18 October 2010

* Compulsory fields

Title	<input type="text"/>
First name *	<input type="text"/>
Last name *	<input type="text"/>
Organisation	<input type="text"/>
Industry sector	<input type="text"/>
Position	<input type="text"/>
E-mail *	<input type="text"/>
Contact number *	<input type="text"/>
Your interest in attending this Workshop?	
Special dietary requirements:	

