



# EGNOS AVIATION IMPLEMENTATION PROJECTS



ESESA Aviation Workshop 26<sup>th</sup> – 27<sup>th</sup> October 2010



## Overview

- Projects frameworks, objectives and common approach
- The FP7 projects for EGNOS in aviation
- The Eurocontrol Implementation projects
- The partnership recipe
- More information at...

- Framework
  - ✓ FP 7 Projects managed by the GSA where Eurocontrol acts as technical coordinator
  - ✓ Eurocontrol implementation projects managed by Eurocontrol under EU TEN-T funds
  
- Objectives
  - ✓ Stimulate the introduction of APV operations based on EGNOS,
  - ✓ Gain experience in the implementation of APV SBAS procedures,
  - ✓ Lessons learnt contributing to the development of guidance material usable by Member States



- Identical targets
  - ✓ Identification of airport(s) where the EGNOS APV procedures can provide benefits
  - ✓ Identification of aircraft operator(s) ready to install the required avionics
  - ✓ Design of SBAS APV procedures
  - ✓ Equip aircraft with SBAS avionics
  - ✓ Airworthiness certification and operational approval
  - ✓ Flight demonstration of the procedures
  - ✓ Implementation Safety Case
  - ✓ Business case for the airport(s) and the operator(s)
  - ✓ Awareness and dissemination of results

- HEDGE (HELicopters Deploy GNSS in Europe)
  - ✓ Coordinated by Helios Ltd
  - ✓ Focus on helicopter operation (North Sea offshore platforms and Helicopter Emergency Medical Services in Switzerland)
  
- GIANT 2 (GNSS Introduction In the Aviation sector -2)
  - ✓ Coordinated by INECO
  - ✓ Focusses on adoption of EGNOS in Regional Airlines, Corporate and General Aviation and Helicopters.
  
- ACCEPTA (ACCelerating EGNOS AdoPTion in Aviation)
  - ✓ Coordinated by INECO
  - ✓ Focus on involvement and commitment of early adopters: airlines, end users, operators, ANSPs and airports.
  - ✓ Focus on accelerated development, certification and marketing of EGNOS enabled avionics.



## ■ AURIGNY

- ✓ Coordinated by NATS
- ✓ Focusses on APV SBAS procedures in Alderney, one of the Channel Islands and in Southampton, UK.



## ■ Airbus Transport International

- ✓ Coordinated by EGIS Avia
- ✓ Focus on implementation of APV/SBAS capability and certification for the Airbus A300-600 ST Beluga
- ✓ Focus on design of EGNOS APV procedure in Pau (France)



## ■ MIELEC

- ✓ Coordinated by Pildo Labs
- ✓ Focus on APV SBAS procedure development in MIELEC (Poland) and SBAS equipement/certification of a Piper 34
- ✓ Focus on LPV Assessment for Czech Airports



# The partnership recipe

- Need for air operators and airline associations

**BRITAIR**



**NETJETS**



- Need for ANSPs and airports



- Need for aircraft and equipment manufacturers



**AIRBUS**



- Need for specialized companies in engineering/safety/consultance in aviation services as well as networking/dissemination



**HELIOS**





## More information at...

- HEDGE <http://hedge.askhelios.com>
  - GIANT 2 <http://giant2.ineco.es/giant>
  - ACCEPTA <http://accepta.ineco.es/>
  - AURIGNY
  - ATI
  - MIELEC
- [http://www.ecacnav.com/RNAV\\_Applications/Implementation\\_Projects](http://www.ecacnav.com/RNAV_Applications/Implementation_Projects)

