



Projects led by Skysoft Portugal on the GJU 3rd Call





Combined Satellite Navigation and UMTS Technology

- Development of a simulator for end-user system integrator and/or manufacturer.
- For designing, implementing and validating algorithms intended to merge GNSS and UMTS systems in a seamless manner.
- Implementation of a prototype model of a combined GNSS (GPS and Galileo) and UMTS terminal in a hardware description language (VHDL/Verilog)
- To be integrated into a single chip, following the SoC (System-On-Chip) philosophy



Galileo and UMTS Technology Demonstrator



Company	Role
	<ul style="list-style-type: none"> • Project Coordination and Management; • Quality Assurance; • Responsible for developing the GNSS part of the software; • Responsible for implementing the integration of UMTS with GNSS; • Implementation of algorithms in Matlab®.
	<ul style="list-style-type: none"> • Leading PVT algorithm definition; • Support in UMTS selected issues.
	<ul style="list-style-type: none"> • Support in GNSS selected issues; • VHDL implementation; • VHDL testing and validation.
	<ul style="list-style-type: none"> • Support in UMTS requirements definition; • Test Plan definition.

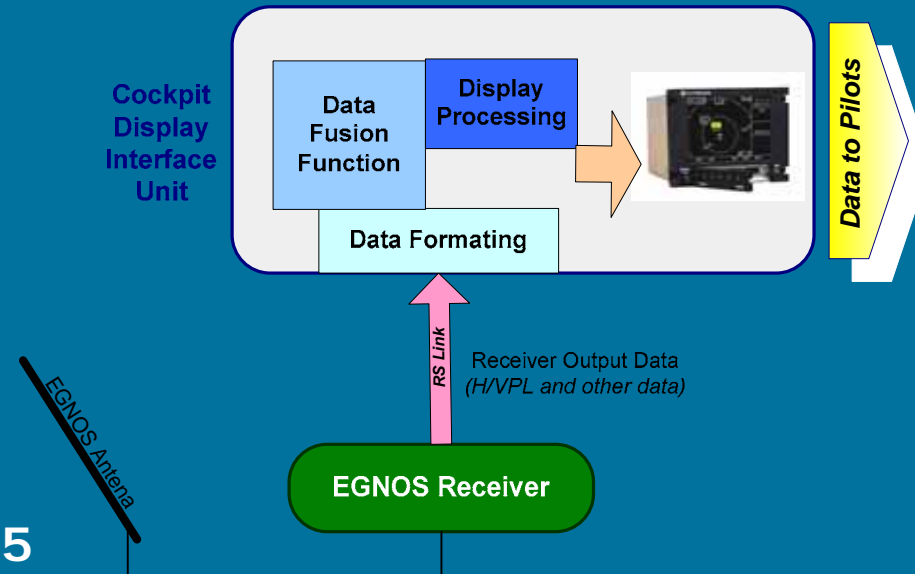
Precision Helicopter Guidance for Cities and Emergency Support

Development and demonstration of a pre-operational system supporting enhanced positioning services aimed at helicopter operations under critical conditions
(night and in conditions of reduced visibility)

Use of:

- EGNOS (and GALILEO in the future)
- A dedicated Cockpit Display Unit (CDU)
- Flight Trials

Project started in September 2005



- The Demonstration plan consists of three flights which follow the route displayed in the next picture



- Skysoft (P)
 - Project Coordination
 - HeliCity System Engineering
- ETG (D)
 - CDU Provider
 - HeliCity System Engineering
- Septentrio (B)
 - EGNOS Receiver Provider
- OMNI (P)
 - Helicopter Provider
 - Flight Trials Support

