

# GARMIS

## Overall Presentation



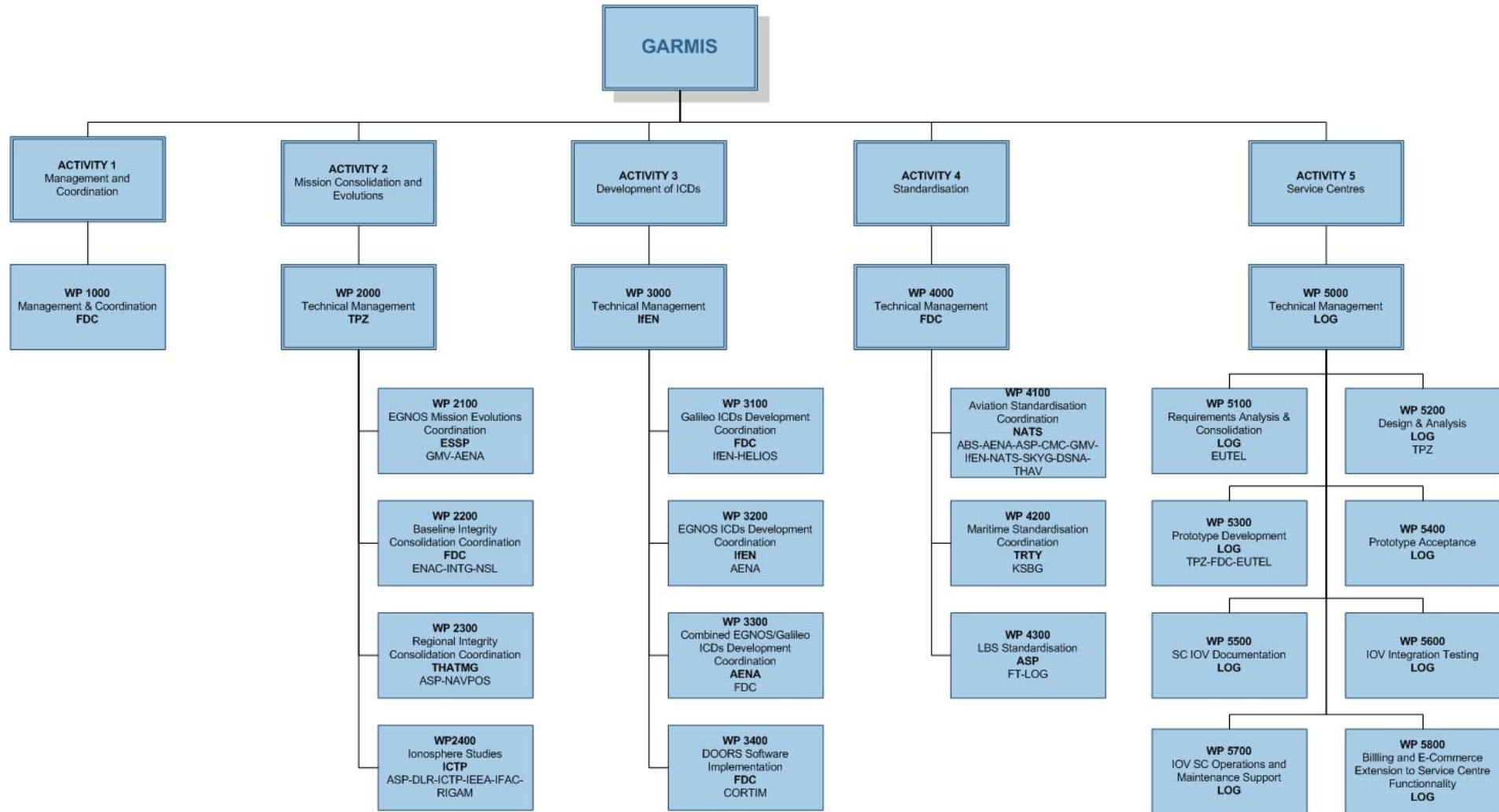
# General Information

- GJU FP6 2<sup>nd</sup> Call: Area 2 call 2417 – Mission Definition and Implementation
- Project Duration: 36 months starting on 3<sup>rd</sup> May 2005
- Total Budget: 4 058 985 €
- Project Team:
  - ✓ A consortium of 30 companies led by FDC
  - ✓ GARMIS Partners: FDC, Alcatel Space, IfEN, LogicaCMG
  - ✓ 26 Sub-contractors



- The purpose of GARMIS is to provide the GJU with continued engineering support for optimising the Galileo documentation
  - ✓ Analysis of some open issues related to Galileo' Services, Mission and Signals in order to complete the Reference Mission Definition
  - ✓ Development of a prototype Service Centre to interface with users and to support downstream activities
- Fours key areas of activities:
  - ✓ Galileo and EGNOS Mission Consolidation and Evolutions
  - ✓ Galileo, EGNOS, and combined Galileo-EGNOS signals and/or services Interface Control Documents (ICDs) development
  - ✓ Standardisation activities in the aviation, maritime and LBS sectors
  - ✓ Definition, design and development of a prototype Service Centre for Galileo

# Work Breakdown Structure



- EGNOS Mission Evolution - Lead: ESSP
  - ✓ Business Assets
  - ✓ User consultation
  - ✓ Support to EGNOS MRD CCB
  - ✓ Update of EGNOS MRD
- Consolidation of Integrity Baseline Service – Lead: FDC
  - ✓ Review of existing integrity concepts
  - ✓ Critical analysis of Galileo integrity concept
  - ✓ Strategy to enhance user acceptance of Galileo integrity concept and operational concepts development
- Regional Integrity Consolidation – Lead : Thales ATM (activities frozen)
- Ionospheric Studies - Lead: ICTP
  - ✓ Analysis of
    - The characteristics of available “ionospheric models”
    - The problematics of extension of GNSS to auroral and equatorial latitudes with effect on Rx
  - ✓ Test in “degraded conditions” of the EGNOS sub-system devoted to ionospheric delay estimation

- Galileo ICDs development - Lead: FDC
  - ✓ Strategy/Policy for ICDs development
  - ✓ Dev. of Galileo draft ICDs
  - ✓ Dev. of a validation process
  - ✓ Public consultation process
  - ✓ Final draft of Galileo ICDs
- EGNOS Services ICDs development – Lead: IfEN
  - ✓ Dev. of EGNOS L1 Services ICD
  - ✓ Dev. of EGNOS combined L1&L5 Services ICD
  - ✓ Dev. of a validation process
- Combined EGNOS/Galileo ICDs Development - Lead: AENA (activities frozen)
- DOORS software implementation - Lead: FDC

- Follow on activity of the GEM contracts in three specific areas
  - ✓ Aviation
    - Lead: NATS
  - ✓ Maritime
    - Lead: Trinity House
  - ✓ LBS
    - Lead: Alcatel Space

# SC Prototype Development – WP5000

- Lead: LogicaCMG
- Activities:
  - ✓ Requirements analysis and consolidation
  - ✓ Design and analysis
  - ✓ Prototype development
  - ✓ SC IOV documentation
  - ✓ IOV integration testing
  - ✓ IOV SC operations and maintenance support
  - ✓ Billing and E-commerce extension
- Schedule
  - ✓ Schedule alignment with CDE1 procurement of SPF primarily
  - ✓ Therefore dates to be confirmed
  - ✓ Participation in EICM and schedule

Milestone	Description	
KOM	Kick off meeting	May 05
RR	Requirement Review	Sept 05
CDR	Critical Design Review	Feb. 06
DKP1	Development Key Point 1	Aug. 06
DKP2	Development Key Point 2	Feb. 07
TRR	Test Readiness Review	May 07
AT	Service Centre Acceptance Tests	Aug. 07
VKP	Validation Key Point	Nov 07
FR	Final Review	May 08

- Project Officer:  
Eric Chatre from GJU (e-mail: [eric.chatre@galileoju.com](mailto:eric.chatre@galileoju.com)) supported by:
  - ✓ Francisco Salabert from GJU
    - EGNOS Evolutions, Regional Integrity
  - ✓ Rodolfo Crescimbeni from GJU
    - Development of ICDs
  - ✓ Bretram Arbesser from ESA
    - Ionospheric Activities
  - ✓ Javier Ventura/Felix Toran from ESA
    - SBAS L5 Standardisation
  
- Project Manager: Marie-Laure Mathieu from FDC  
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