

Aéronautique, Espace, Systèmes Embarqués



MIDI-PYRÉNÉES & AQUITAINE

PÔLE DE COMPÉTITIVITÉ MONDIAL





presented by F. Castanié







#### The Midi-Pyrénées Region context for GNSS-based applications

- **24 funded projects** (30 to 50 % depending of the partners' types) for the 2006-2009 period
- More than **42 M€** of public funding
- Parnership involving in majority numerous local SMEs (mostly clustered in the *CECILE group*) and some major stakeholders (TAS, EADS Astrium, CNES, ...)
- Continuous flow of such projects for 2010 and beyond
- Initial Evaluation under the aegis of Aerospace Valley Competitiveness Pole

#### Technical challenges addressed by GNSS Based applications

- Hybridation and fusion of satellite based positioning systems : GPS, EGNOS, Multiconstellation approaches
- Hybridation and fusion between heterogeneous positioning systems (so-called augmentation systems) self sensory ones (inertial, barometric, odometer, Radars...), Terrestrial Telecommunication network positioning (WiMax, DVB-T, Zigbee...), RFIDs, ...



#### **Addressed Application domains**

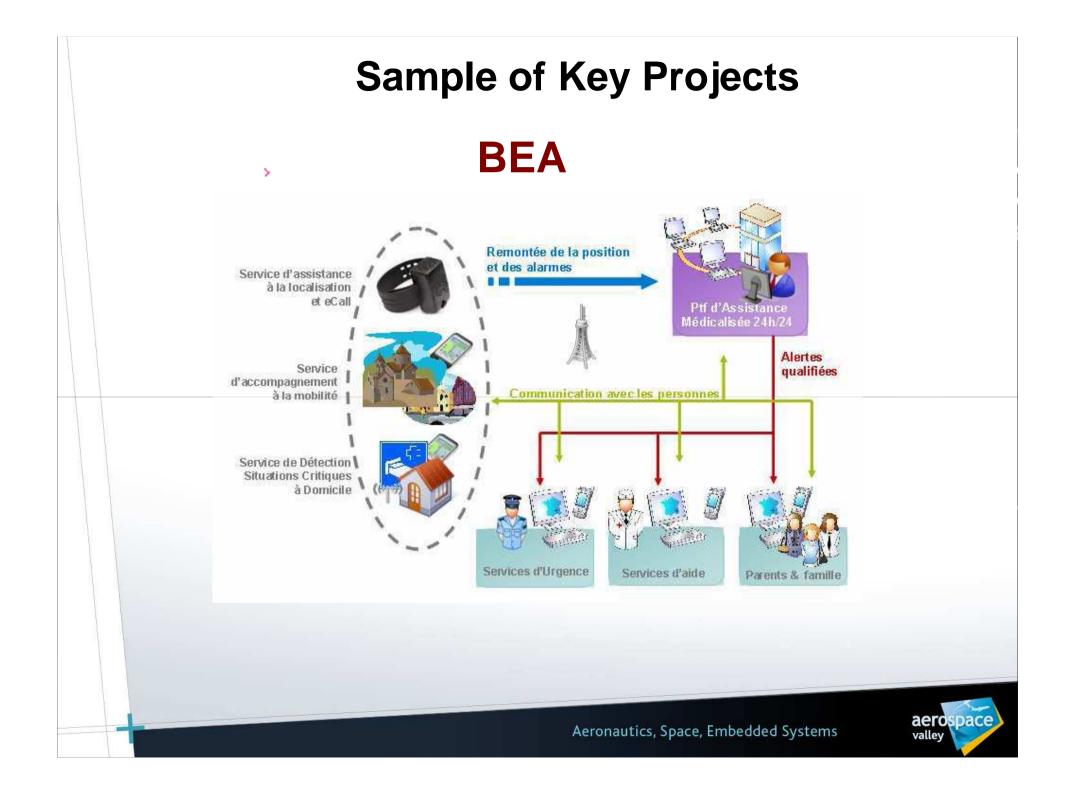
- Dangerous Goods transportation, Traffic Management, Emergency Services Assistance
- Waterway Traffic Monitoring and Assistance
- Telemedicine and Impaired/Handicapped People Assistance

TRANSCONTROL	Dangerous Goods Traffic Monitoring	M3 Systems
SITEEG	Traffic Management and environment Monitoring using EGNOS and Galileo	Polestar / CECILE
OURSES	Rutral telemedicine services by satellites	EADS Astrium
BINAUR	autonomous movement partially sighted assistance service	Navocap
AVANTAGE	geolocalization for urban service accessibility	Pole Star
GEO URGENCE	Real-Time Emergency Services geolocalized monitoring	Silogic
FILONAS-SDIS31	Navigation and Localization for Emergency services Interventions	CECILE



NAVIPIX	Imagerie aérienne pour visualisation 3D sur systèmes de navigation	Geotexel
MOBIVILLE	Multimodal Urban Guidance	Artal Technologies
SINAFE	Satellite Postioning for waterway traffic monitoring	M3Systems
MENELAS	GNSS Based Visually Impaired assistance	Nav On Time
NAVIG	GNSS Basd Visually Impaired assitance	IRIT
AGEXPO	Indoor Positioning for Conference	Magellium
BEA	Wearable assistance devices for localization and assistance of impaired peoples	Atos Origin
BAACALAGE	Automatic Localization for Road Hazards and Accidents	Géoloc Systems
INTERLOC	Interference Sourrces Localization for GNSS Signals	Helileo





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NAVIG Navigation Assistée par Vision artificielle et Gnss



#### TRANSPORT FLUVIAL INNOVANT

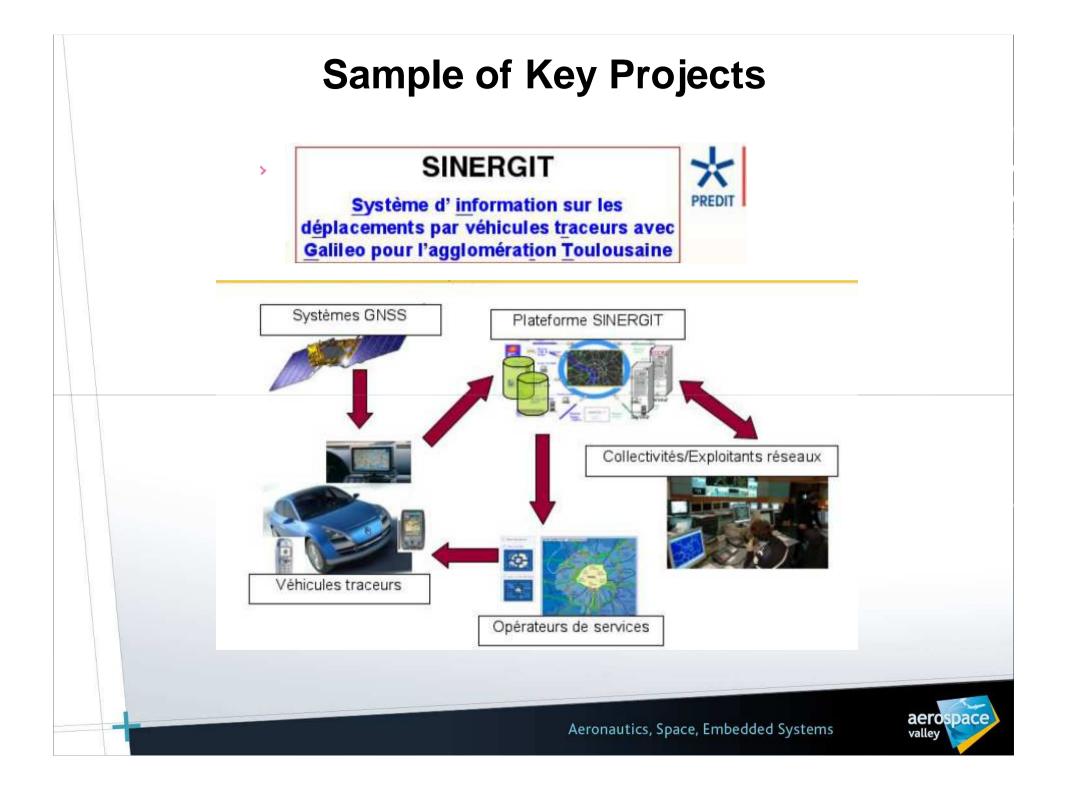
La création de nouveaux services pour le transport fluvial Européen développés par M3 Systems à partir de l'intégrité d'EGNOS.

Domaine	Spatial – Radio Navigation
Client	VNF (Voies Navigables de France) / DRIRE

#### **M3** SYSTEMS









# Thank you for your attention



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