

GIM nv/sa -Expertise profile

Belgian SME performing EO and Geo-ICT R&D

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Team Manager – Earth Observation



➔ Draft Call Topics that GIM is interested in

Space-based applications at the service of European Society (GMES)

➔ *Pre-operational validation of GMES services and products*

- ➔ Testing and validating the **low time-critical** components of the CONOPS
 - ➔ Punctual monitoring of selected neighbouring third-country ports and coasts
 - ➔ Monitoring of the pre-frontier land areas
- ➔ GMES Security – **Support to EU External Actions**
- ➔ Support to **emergency response management**
- ➔ Preparing **take-up of GMES Sentinel data**

➔ *Support to the coordinated provision of observation data*

- ➔ Research and development for **in-situ component**
- ➔ GMES Climate Change – **Data archiving and exchange**
- ➔ Consolidation of **user requirements for GMES**

➔ Presentation of GIM

Independent ISO certified Belgian SME with **30 staff**, founded in **1993** and delivering **solutions** (data & software products and services) to private and public organisations

➔ *Earth Observation*

- ➔ R&D: Advanced image processing, information extraction, mapping and visualisation of results
- ➔ Distributor of VHRSI (optical and SAR) and value added service provider

➔ *GeoICT*

- ➔ Implementation of complete Spatial Data Infrastructures (SDIs) using Open Source, COTS and GIM software
- ➔ Development of and consultancy on use of Open Standards (OGC member)

➔ *Geodata management, Geomarketing, Training Centre*

➔ *Extensive experience at EU level:*



➔ Relevant expertise/experience

- ***Pre-operational validation of GMES services and products***
 - Object-based Image Analysis (OBIA) to produce LULC and detect/analyse specific targets
 - Specific LULC focussing on built-up environment; dasymetric mapping; detection of informal settlements
 - Time series preprocessing (atmospheric correction, co-registration) and analysis
 - Innovative change detection, data fusion
 - DTM/DSM, 3D buildings
 - Automation, transferability of processing chains
 - SDI, GIS and integration of various data sources
 - Web-based information management system and decision support
- ***Support to the coordinated provision of observation data***
 - Experience with applying Sensor Web Enablement (SWE) technologies to near-real time sensor networks
- **Informex, EOMark, Infext, Infex, GSE Land, EUROSION:** EO processing chains development and automation
- **ESA HMA project series, GENESIS (FP7), ESA Service Support Environment, ESA COPS-B:** realising interoperability of EO product metadata, catalogues, online data access, processing services, ...
- **EO4SeedMon/NEOSEEM:** development of operational service in precision agriculture

➔ Intended Role in a Consortium

- **Partner** with key role
- **Work package leader** for technical WP related to
 - Requirements analysis
 - Image processing and products development
 - EO Data Infrastructure architecture
 - Software implementation and validation
 - ...
- EO Processing chain development
- Trial cases
- Validation and utility review with users
- Interoperability standards development and consultancy
- Typically 2-3 persons part time is possible (Senior PM and Senior experts)



➔ Contact

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- More information: <http://www.gim.be>