

**Short presentation of an expertise profile for the
5th call Space in FP7**

Francois Debroux,
ERDAS
Geospatial Software vendor
Belgium



COSMOS Matchmaking Event
18th March 2011, Sofia, Bulgaria

Draft Call Topics that we are interested in

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

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

- GMES Security – Support to EU External Actions
- Support to emergency response management

➤ ***Support to the coordinated provision of observation data***

- Research and development for In-situ component
- Climate Change – GMES service coordination
- Consolidation of user requirements for GMES

Strengthening the foundations of Space science and technology (SSF)

➤ ***Research to support space science and exploration***

- Exploitation of space science and exploration data

Cross-cutting activities

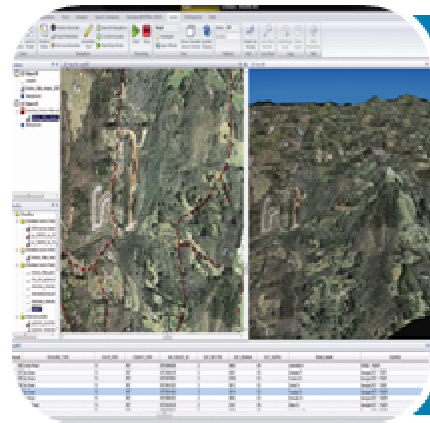
➤ ***Studies and events in support of European Space Policy***

- Studies and events in support of European Space Policy
- Research agenda definitions and research activity road-maps
- New emerging research needs - reduction of vulnerability of space infrastructure

Who is ERDAS?



The Earth to Business Company – we help organizations *harness the information of the changing Earth for greater advantage*



We are a *geospatial software company* providing integrated remote sensing and photogrammetry enterprise solutions



We have over *30 years of imagery expertise*, with a deep understanding of geospatial data

The Geospatial Information Value Chain

Components of a Geospatial Business System

➤ Author

Transform source data into products, including orthos, terrain, features, maps, 3D data, land cover data and processing models

➤ Manage

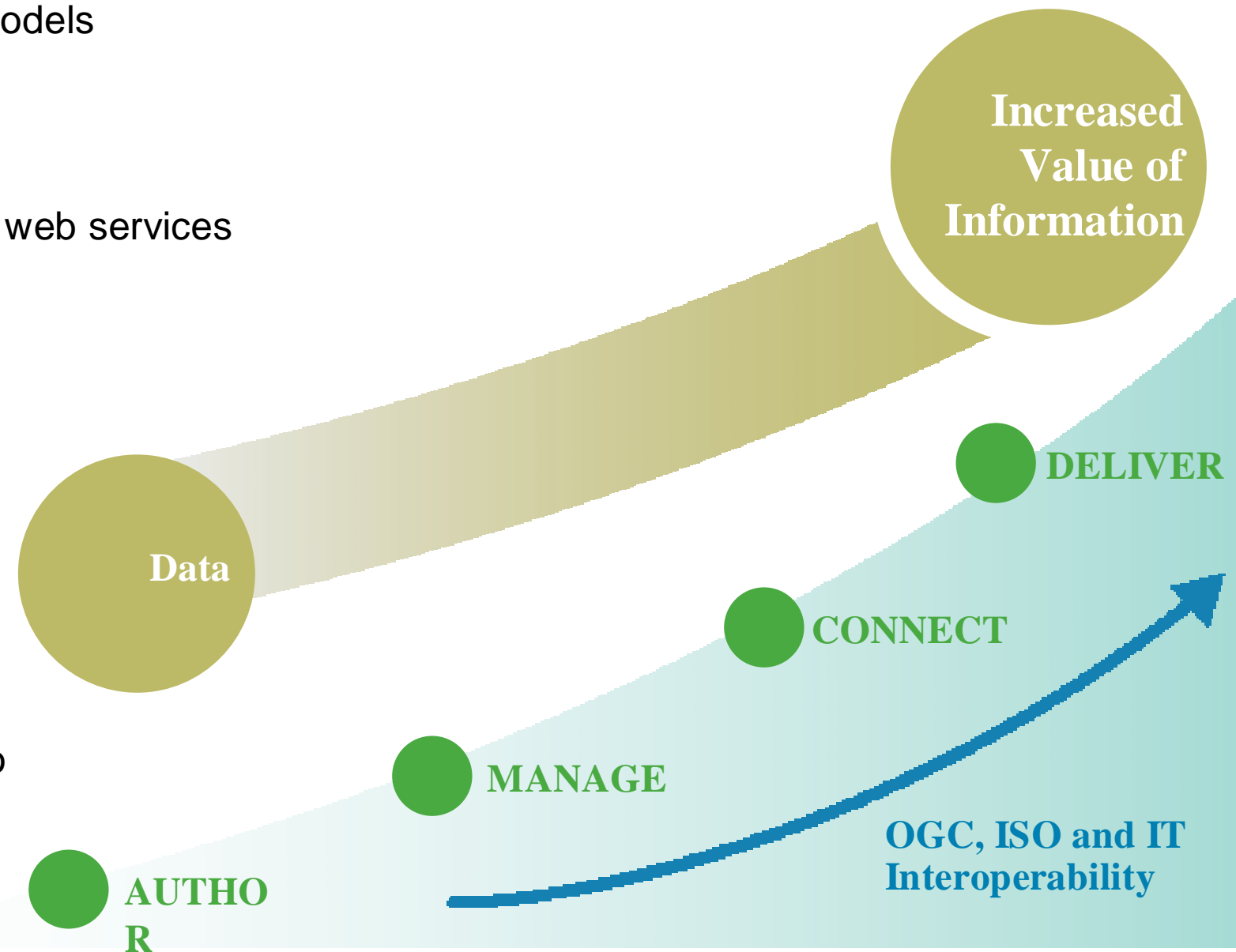
Find, describe, catalog and serve data and web services

➤ Connect

Connect users and rapidly share content throughout an organization or business-to-business

➤ Deliver

Quickly and efficiently deliver information to a wide variety clients

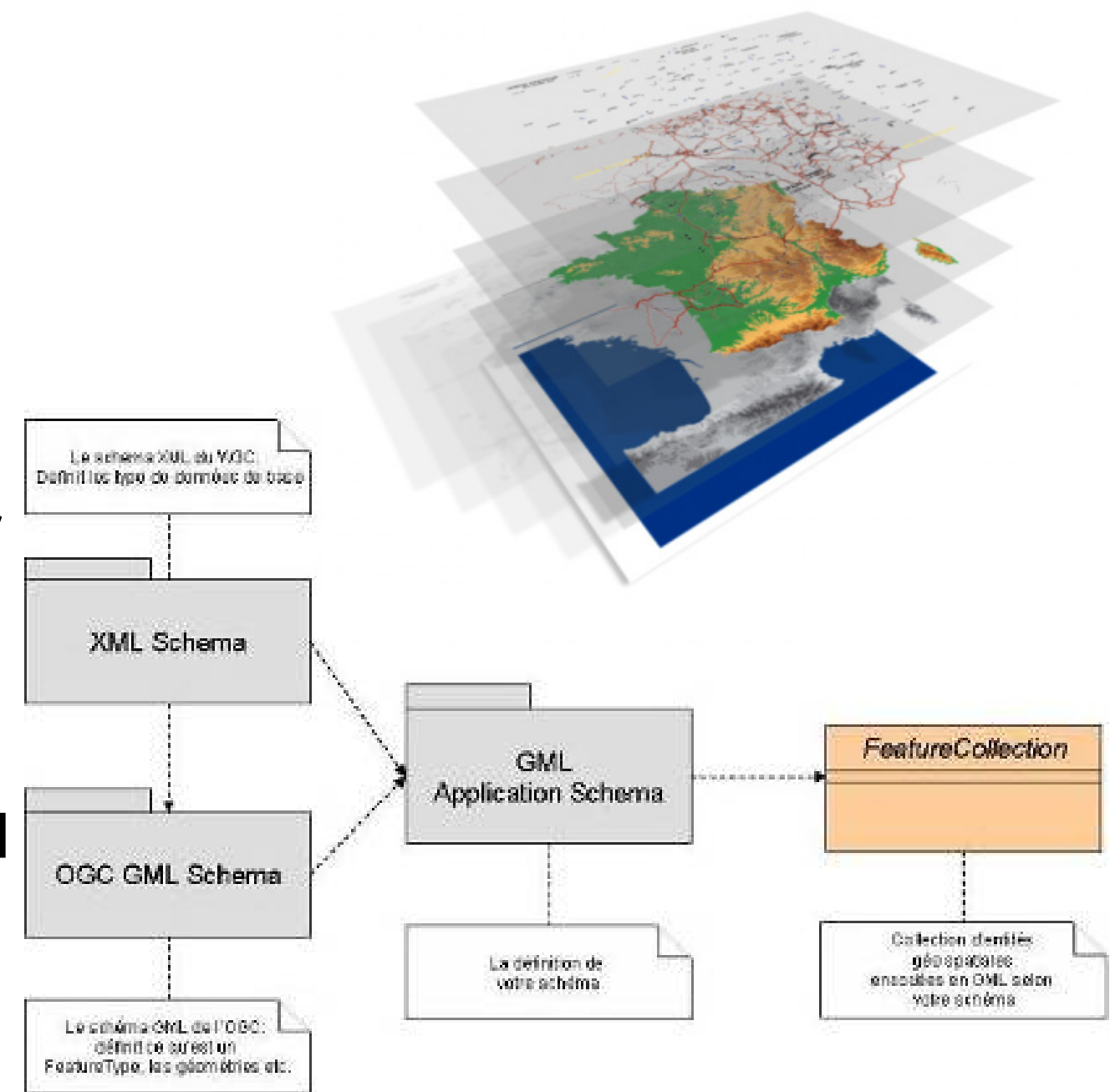


The Geospatial Information Value Chain

ERDAS solutions to market needs

Enterprise vision and positioning

- Follow and implement standards evolutions
 - Provide configurable and extensible tools
 - Interoperate with existing business systems
 - Help organizations to connect their users to share data
 - Improve employee, customer and partner visibility to information, enabling them to respond faster and collaborate better
- **Support organisations in their stepped approach to SDIs**

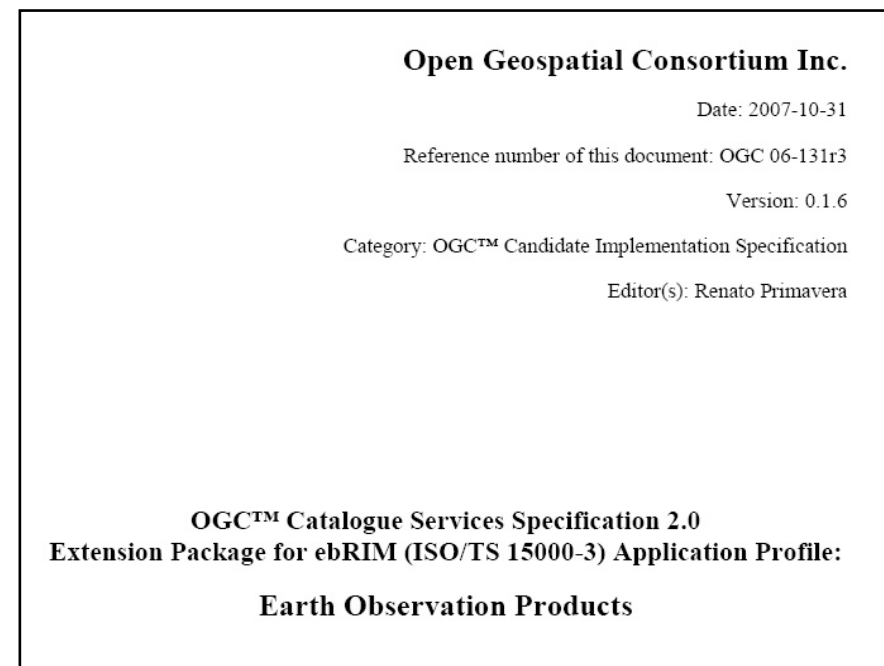


Experience with GENESIS project (ICT FP7, 2008-2011)

- An enabler of the future Single Information Space in Europe for the Environment
- ERDAS providing catalog information models for Earth Observations and ISO 19115 metadata
- Correlation between environmental and health data
- Near real time decision-making processes
- Appropriate information of citizens
- Support professionals in their daily practices in relation with the environment management and health

Experience with HMA projects serie

EO ground segments access



The GMES HMA (Heterogeneous Mission Accessibility) projects series cover activities for interoperability, implementation for ESA, for permanent testbed, and for standards evolutions follow-on. It is aimed at establishing harmonized access to several mission ground segments operated by space agencies in Europe.

- ERDAS provided expertise to the European Space Agency and other HMA stakeholders, regarding :
 - OGC Registry Services standardization process and specification work,
 - OGC Catalog reference platform, and HMA interface proxy deployments, on top of legacy catalogs.

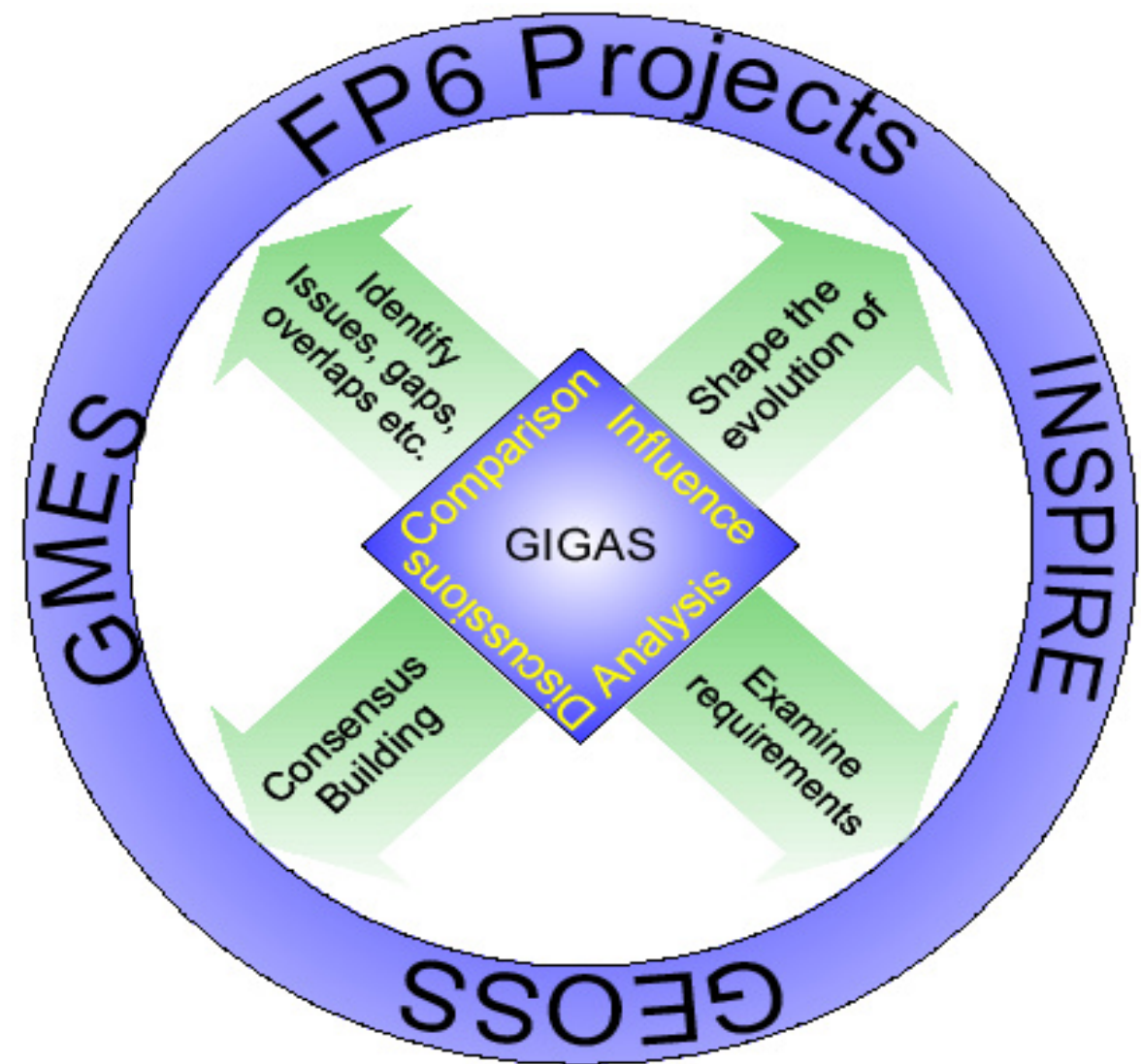
Experience with GIGAS project

Standardization processes harmonization

- Analysis of consensus building processes & tools in GEOSS, INSPIRE, GMES, and in standardization bodies
- Recommendations e.g. to OGC, considering INSPIRE and GEOSS requirements

GIGAS will provide recommendations:

- To increase architectural coherence
- To strengthen EU contribution to international standardization
- For further strategic research



Experience with GEOSS Pilot Phases 2&3 (GEO Task AR-09-01, AIP-2 and -3)

- Group on Earth Observations (GEO) Architecture Implementation Pilot for GEOSS
- ERDAS as OGC member co-leading several work groups
 - Access to Products, Sensors and Models
 - Portals and Client applications
 - Data Harmonization...
- Augmenting the GEOSS Common Infrastructure
 - GEO Portals
 - Clearinghouse
 - Components and Services Registry
 - Standards and Interoperability Registry

Moving forward with standards

ERDAS Organisational processes

- ERDAS 'Principal Plus' member of the OGC since 2007
- Chair of the OGC Europe Group since 2003
- Co-author of multiple OGC specifications since 1999
 - WCS 1.0, WCS 1.1, WFS 1.0, WFS 1.1, GML 2.1.2, Filter Encoding 1.1, ...
- Contributor to ISO/TC 211 working groups
- Head of Belgian delegation at ISO/TC 211
- Project leader for **ISO19142 WFS** and **ISO19143 Filter Encoding**

- Acting within several EC Framework Projects or international standardization initiatives.

Contact and further information

Francois Debroux

Enterprise Solutions Sales Manager, EMEA

+32-474382446

Francois.debroux@erdas.com

www.erdas.com