



Reaching into space
TOGETHER

EOREGIONS!

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Scope

- Spacebel, EO and Big Data
- Challenges for EORegions!
- Assets of EORegions! and perspective

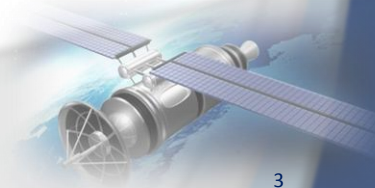


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MARSHALL
4.0



SPACEBEL - Business

- ◎ **IT systems**
 - Space infrastructures
 - Geospatial information systems
- ◎ **Earth observation satellite mission definition and systems**
- ◎ ***EO services provider for environment, resources and territory management***



SPACEBEL - Key figures

- ✓ 27 Years in space business
- ✓ 2015 Sales : 11 M €, 95% export
- ✓ 80 engineers
- ✓ 2 sites in Belgium
- ✓ 1 subsidiary in Toulouse



B - Liège



B - Brussels



F - Toulouse

Areas of Expertise

On board software

Satellite platforms / payloads
Launchers

top 3

Simulators & emulators

From on board computers to
overall orbital systems

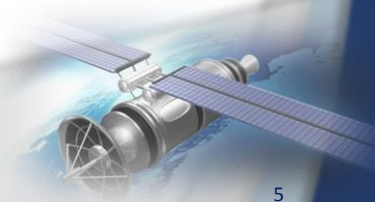
top 2

Mission & control centres

Mission analysis, planning, data
processing, Satellite control
centres

EO small satellite missions

Geospatial exploitation platforms



A new era for Earth Observation

European Sentinels



Geodata:

No cost

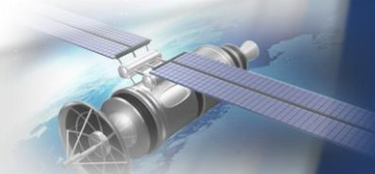
Free

Available

weekly

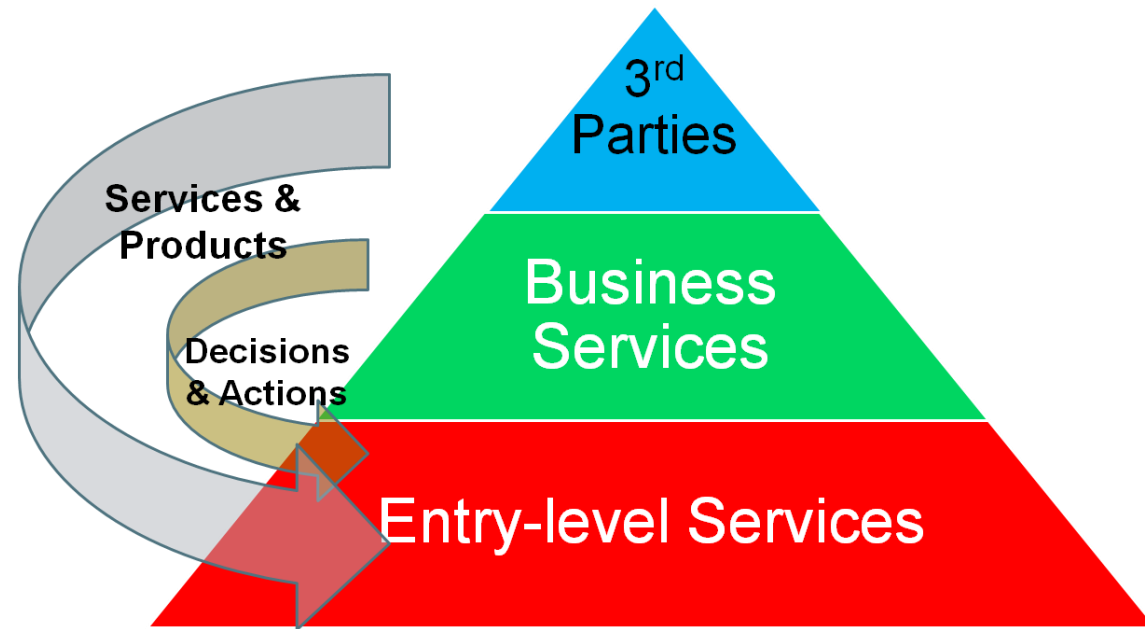
EO and BIG DATA

- **Big Data:**
 - Large storage capacity
 - Powerful processing capacity
 - Tools (data analytics, data quality, data security, data visualization)
- **Earth Observation**
 - In-orbit & airborne instruments
 - Sensor networks (in-situ)
 - Mobile communications & location devices
- **Opportunities:**
 - New value chains (creation of added-value by combining data)
 - New economic models



EORegions! = **INNOVATE!**

- Innovate in the economic model

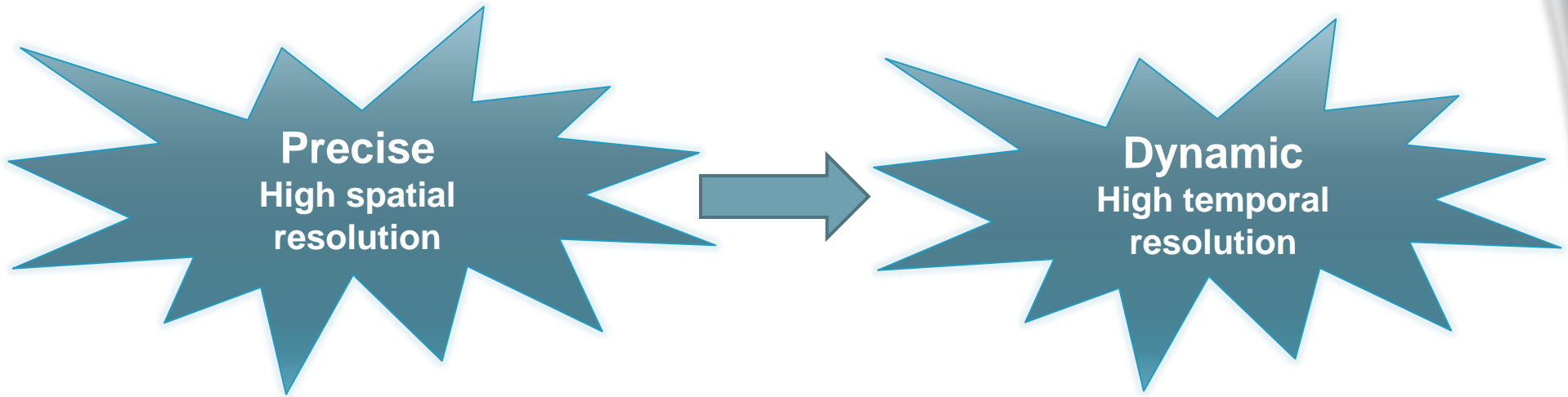


- Innovate in the services delivered to the local players



Change the representation of Geodata

FROM Snapshot to Evolution monitoring

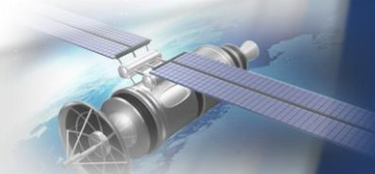


>> More services

- identification of changes of the vegetation
- forest management
- identification of damages due to storms, drought, flood
- Compensation of damages of hazards
- Precision farming
- monitoring of GNSS stations

EORegions! in a nutshell

- One infrastructure:
 - *Big Data of Wallonia (Plateforme Innovation « PFI Big Data »)*
 - *Software services to exploit “images” (S1, S2, drones, ...), data from the geoportal of Wallonia, field data (sensors, crowd-sourcing)*
- One team:
 - *Entreprises: Spacebel + NRB + I-Mage*
 - *Universities: Ulg + ERM*
- Technological showcases:
 - *EORegions! in Wallonia*
 - *EORegions! in Senegal*



Outcome of EORegions!

- Tools for the development of services to:
 - Increase efficiency of research programmes
 - Industrialise access to multiple sources of data
 - Increase productivity in the operational value chains
- Operational Platform to:
 - Host operational applications
 - Boost the economic players of the sector in Wallonia
- Node of reference for the EUGENIUS network



In practice:

- The EORegions! Project started on April 1, 2016
- The Big Data project started on February 17, 2016
 - Partnership for technological innovation (PIT) for R&D
 - Innovation platform (PFI) for commercialisation
- For more information, please contact:
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Thank you for listening



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