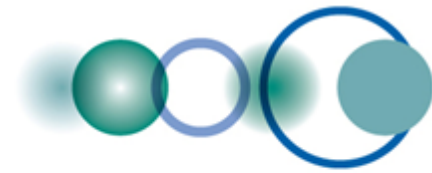


Gfg2: an FP7 project for GEOSS - The experience of a Spanish SME -

**Dr. Anna Puig-Centelles
M.Sc. Elizabeth Gil-Roldán**





Who we are

- A Spanish SME transforming Science into technologies through 12 years of groundbreaking technology development
- From research to products and services
- Scientific and business excellence to solve our clients' challenges

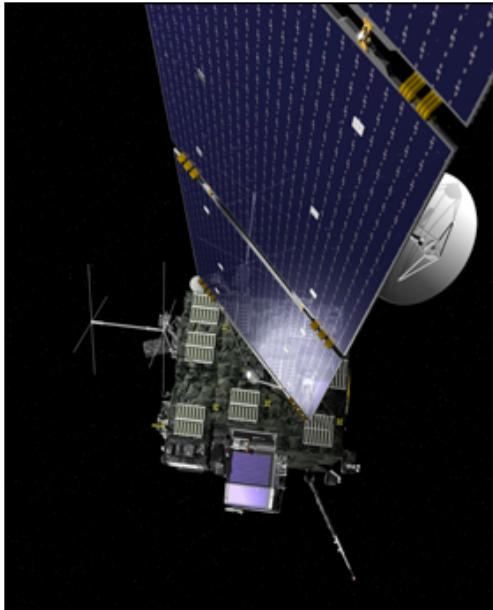


- Multidisciplinary backgrounds: physics, neuroscience, mathematics, engineering, economics, law, journalism...
- International staff (9 nationalities) where most have a Ph.D.



Space business chain

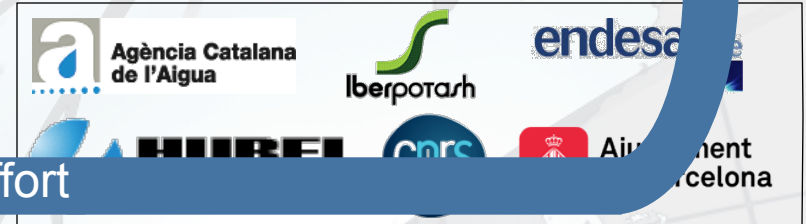
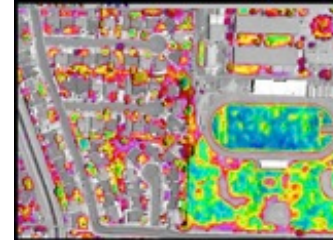
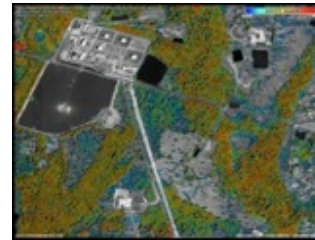
Space technology

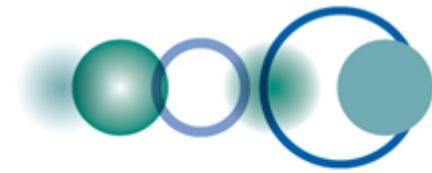


Space applications



Products and services





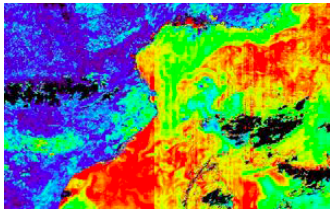
Space technology

- Advanced active sensors and algorithms for Earth Observation:
 - feasibility studies and simulators of novel instrument concepts for ocean and land monitoring
 - signal processing techniques to enhance the estimation of geophysical parameters
- Global Navigation Satellite Systems (GNSS) for Remote Sensing:
 - GNSS-based instruments for crucial geophysical parameter monitoring: sea surface, soil moisture, vegetation, sea ice, dry snow, ionosphere, etc.



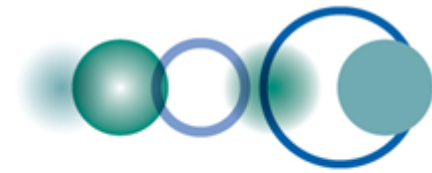


Space applications in the market

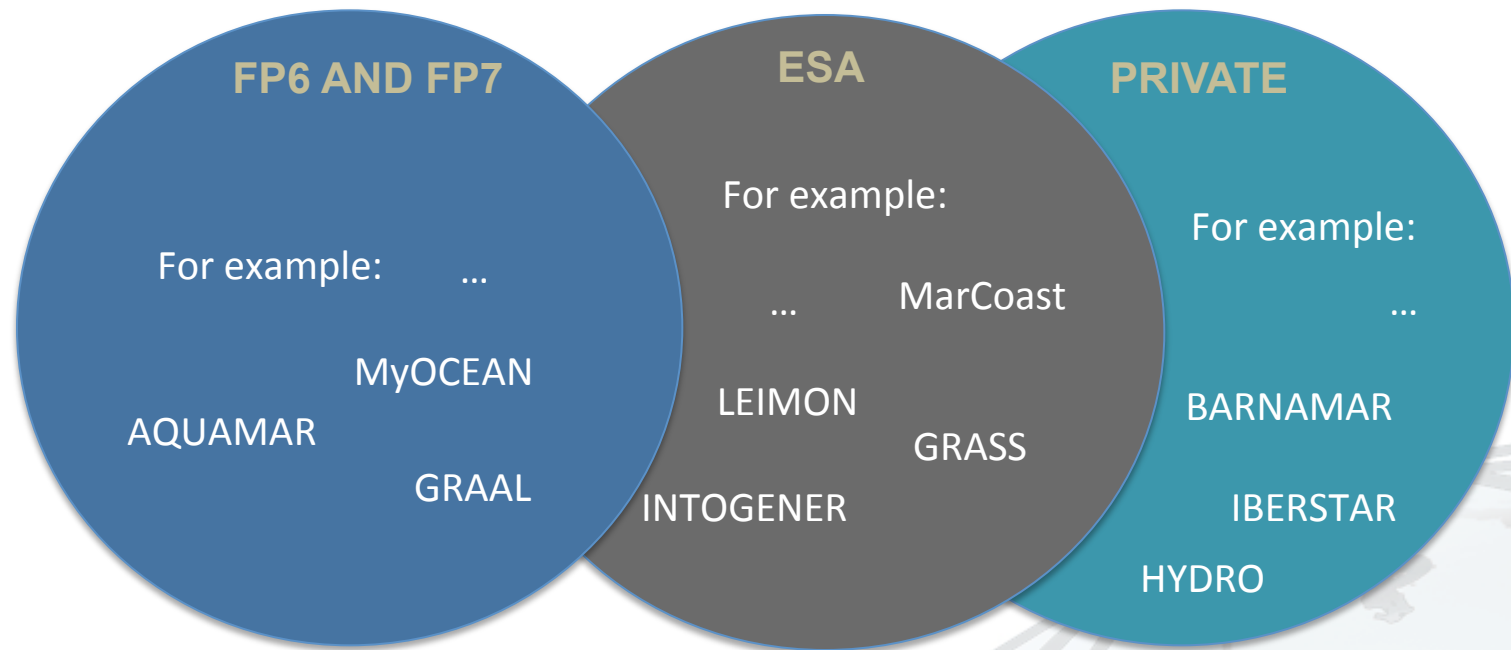


- Renewable energy: wind and wave mapping service for site selection or plant management
- Environmental monitoring: oil spill detection and water quality service
- Water resource management: snow cover and soil moisture service for efficient water management
- Remote dry system for water state monitoring using GNSS signals

Oceanpal®



Previous experience

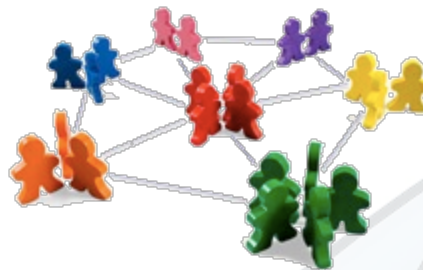


- **Starlab's contribution to GEOSS**
 - Gfg²
 - WeSenselt: FP7 funded citizen observatory providing data to GEOSS

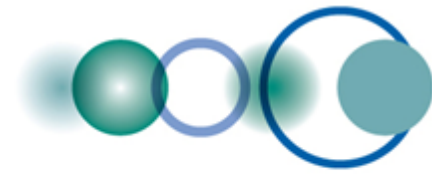


What is Gfg²?

- **Gfg²** → GNSS for Global Environmental Earth Observation (GEE0) and GEOSS (Global Earth Observation System of Systems)
- 3-year Coordination Action (CA) funded by the 7th FP of the EC under the Environment theme (2010). From January 2011 to December 2013.



- **Mission** → to better assess the value of GNSS for Global Environmental Earth Observation (GEE0) and GEOSS



GEOSS Societal Benefit Areas (SBAs)





Gfg² Partners



STARLAB → Starlab Barcelona S.L., Starlab Consulting Division - Space Engineering



ULEIC → University of Leicester, G-STEP group



UNOTT → The University of Nottingham, GNSS Research and Applications Centre of Excellence (GRACE)

CHALMERS

CHALMERS → Chalmers University of Technology



ALTErra → Wageningen University and Research Centre



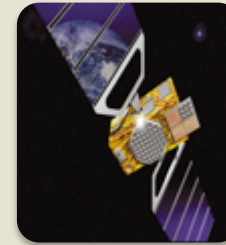
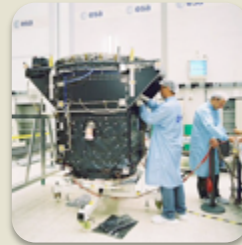
MET.NO → Norwegian Meteorological Institute



GFZ → German Research Centre for Geosciences



Gfg² Goals



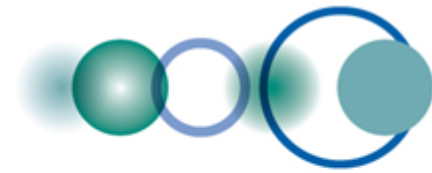
To **consolidate a community of experts** interested in the scientific exploitation of GNSS for Environment and GEOSS

To **explore novel applications** derived from GNSS for Environment and GEOSS while **enhancing research-industry collaboration** to implement these applications

To **identify the research and technological challenges** and **define the strategic vision, roadmap** and policy for GNSS for Environment and GEOSS available or under development

To **assess the value of a European GNSS independent constellation** (EGNOS-GALILEO) in the support to Environment and GEOSS

To **promote the public understanding of GNSS** for Environment and GEOSS research and use within the GEO



Achievements expected from Gfg²

- Publications, documentation and training material relevant to GNSS, GEO and GEOSS
- Dissemination among the GEO community in European and non-European events
- 2 Summer Schools
- 2 Roadmap Workshops
- Barriers and enablers to address GEE0 and GEOSS needs with GNSS
- Is Galileo a solution? Thoughts for the next generation of Galileo
- Future applications of GNSS for GEE0 and GEOSS
- Benefits of GALILEO for GEE0 and GEOSS
- Best Practices Book
- Final recommendations for GEOSS
- Etc.



Some of the project's main successes

305 LinkedIn community members



GNSS for Global Environmental Earth Observation (GEE0) and GEOSS.

Discussions

Members

Promotions

Jobs

Search

Manage

More...

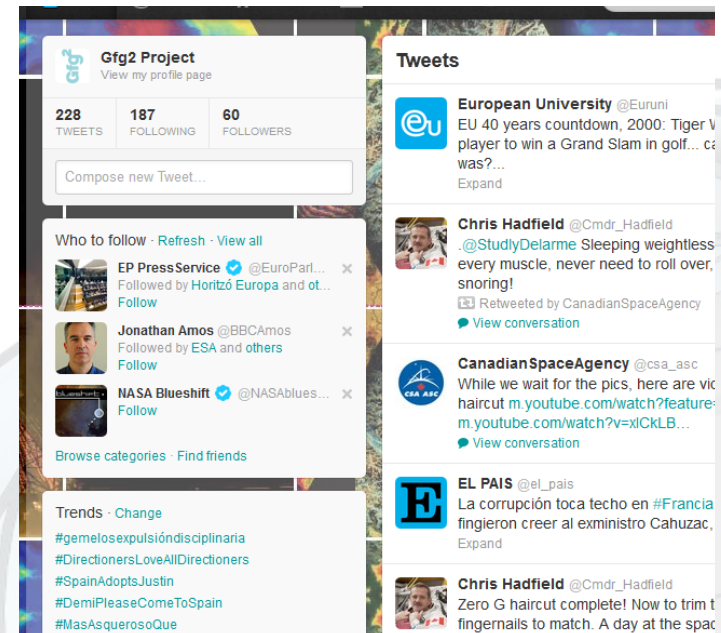
228 Twitter followers

Gfg2.eu website

2,301 people visited this site



*Google analytics





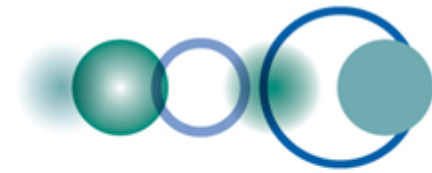
Some of the project's main successes

Upcoming event → **TED^xBarcelona**
x = independently organised TED event

November 16th 2013, Barcelona

<http://www.gfg2.eu/tedxbarcelona>





Breaking Myths on the Framework Programme

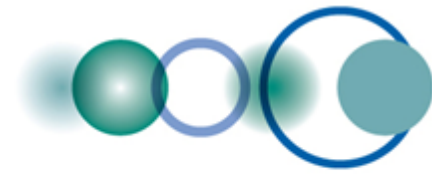
- ~~An SME cannot be project leader~~
 - Gfg2, HC2, Hive, Peach, etc.
- ~~It is very difficult to get a project approved~~
 - Large competency → look for excellence!
- ~~The same countries are always involved~~
 - Poland, Slovakia, Malta, Greece, Lithuania, etc.
- ~~FP projects do not have tangible results~~
 - Starlab created a successful spin-off that commercializes products developed within FP projects



Lessons Learned at Starlab



- Networking and talking to Project Officers (PO) is very important
- Your participation must be aligned with the objectives of your SME
- No investment, no gain!
 - Play an active&driving role. Partners will remember you.
- Think of side effects: in addition to products and services, know-how and retained talent
- Don't be scared of the complexity
 - An SME can do it!



Thank you!

Starlab[®]
Living Science

