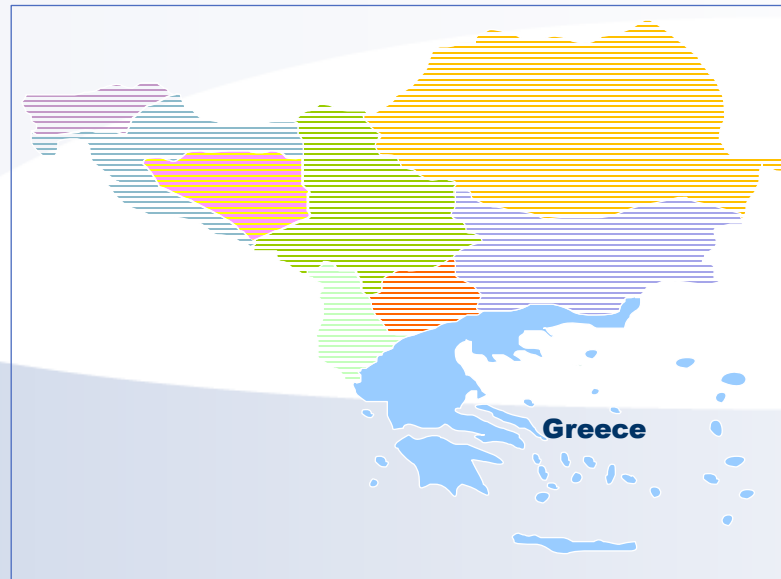




GMES Operational Capacity Workshop



Earth Observation and GMES in a regional perspective : the case of Greece



Sofia, 25-26 March 2010



AGENDA



Sofia, 25-26 March 2010

WHO WE ARE, WHAT WE DO ◀

EARTH OBSERVATION IN GREECE

REGIONAL CAPABILITY

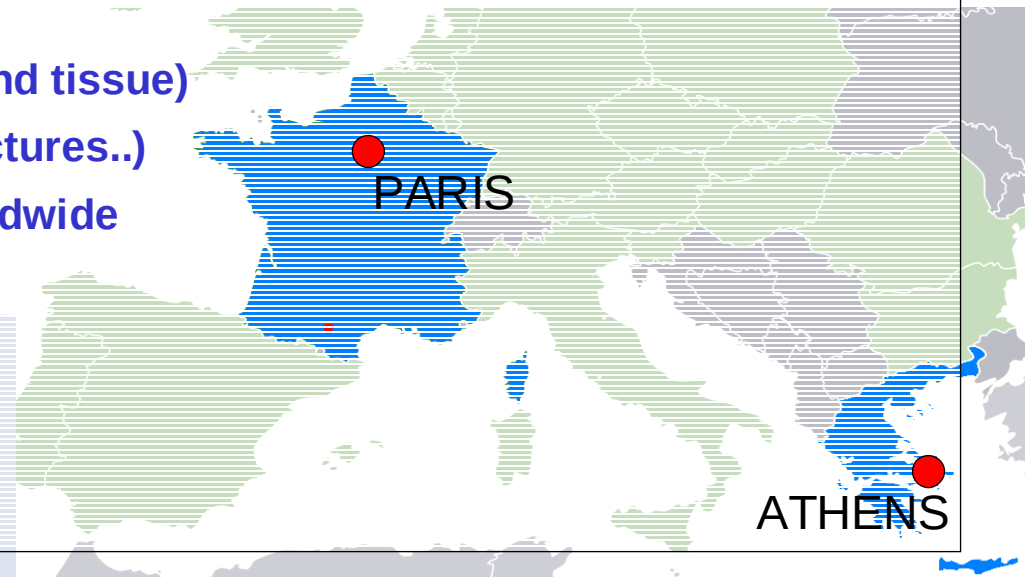


Who We Are, What We Do



Presentation

- ✓ Grace Ltd is a Greek consulting firm (SME)
- ✓ Independent actor created in 2008 in Athens
- ✓ **Mission : development of Space industry and use of its applications for the benefit of the people**
- ✓ Young and dynamic actor focusing on **capacity building**
- ✓ **Strong competences**
 - ✓ Geographic (Local market and tissue)
 - ✓ Sector (EO, Space Infrastructures..)
 - ✓ Network of consultants worldwide
- ✓ **Contact points in France**





Who We Are, What We Do



Activities

- ✓ Strong expertise in the operational use of Space
 - Large number of partnerships and extended networking capabilities in Europe, North America, North Africa, Middle East and Asia
 - Team with P.L.A.N. Inc. and Mea Intuis.
 - Government Actors, Space Agencies
 - Industries, Operators, Service Providers
 - Research Centers/ Universities
 - SMEs
 - Data access,
 - Telemetry agreements,
 - Set-up of thematic projects
 - Consulting services, studies, training, financing opportunities,
 - Set-up of ground stations, satellite missions, middle and large-scale solutions, integrated applications



S.A.R.L MEA INTUIS

member of EARSC



References:

CNES, ESRI, Digital Globe, Space Imaging (now Geoeye), SPOT Image, Radarsat, Google Earth, Inmarsat, Eutelsat..

Recently performed a thorough survey on the Space sector in Greece



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Earth Observation in Greece

Background



- ✓ EU member since 1981, ESA member (2005)
- ✓ 132 00 km², 80% mountainous, 1400 islands
 - ✓ 13 regions, 51 prefectures - departments
 - ✓ Greek participation in GMES, ESA EOEP
- ✓ Also CCI, Int. Charter on Space&Major Disasters
 - ☐ maritime -coasts, pollution, fisheries...
 - ☐ environment monitoring,
 - ☐ security,
 - ☐ risks/disasters management,
 - ☐ water resources management
 - ☐ agriculture
 - ☐ topographic/geological mapping..

Many needs



Earth Observation in Greece



R&D

GMES Service Element:

Mariss, Marcoast, Terrafirma (Land), PROMOTE (Air),

GMES Fast Track Services and Pilot Services:

EC FP7 Space Call 1: SAFER, Geoland2, MyOcean, MACC

GMES Downstream Services:

EC FP7 Space Call 2: PASODOBLE

ESA Industry Incentive Scheme

2006-2009:

Floodplain Mapping
Borders Monitoring
Polluting Ships Tracking
Ground Deformation
Nitrogen Dioxide Measurements
Agricultural Water Use
Burnt Scar Mapping (Forest fires)

- ✓ Strong research background
- ✓ High level of qualifications as for the human resources
- ✓ Tradition in basic science



Earth Observation in Greece



Operational

- ✓ Regional GIS and disaster monitoring projects implemented
- ✓ Number of regional and transboundary issues raised
 - Shared water resources (ex. Nestos river)
 - Shared environmentally sensitive areas (ex. Prespa Lakes)
 - Common risks and disasters (ex. Evros floods)
- ✓ State efforts increased since ESA accession
- ✓ Too fragmented market, too fragmented government actors' jurisdiction
- ✓ Absence of global coordination and efficient policy
- ✓ Level of end users' awareness and involvement: needs improvement!

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Regional Capability



Global

- ✓ GMES goes on
- ✓ European Space Policy goes on
- ✓ Regional development goes on
- ✓ State-of-the-art technologies are here
- ✓ European financial instruments are here
- ✓ Europe has today a great capability
- ✓ Earth Observation business grows fast

So, everything is just perfect?..hmmm

Can we optimize and push forward the benefits of GMES along with a national/regional involvement and capacity?



Regional Capability



Conclusions

- ✓ End users -> mature, aware, trained, and collaborating between each other
- ✓ Setting national and regional priorities
- ✓ Exploring regional and international cooperation opportunities, identify and solve common problems, share the costs and the benefits
- ✓ Operational use of EO data can be sustainable only if behind a long term vision
- ✓ Well dissociate where to focus: R&D or operational service
- ✓ Infrastructures and services are mutually dependent
- ✓ Space is a political issue



Thank you for your attention



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