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Agencia de Innovación, Financiación e Internacionalización Empresarial

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GMES 4 REGIONS
AND LOCAL AUTHORITIES

The system of Regional Contact Offices for promoting Copernicus services and the use of Space Technologies in EU regions

P.CARRARA, M. Antoninetti, H.Bacai, A. Basoni, C. Bosc, M. Clave, C. Cornacchia, A. Gil, A. L'Astorina, P. Mombet, S. Nicolau, N. Pergola, A. Rampini, V. Tramutoli, V.Schemacher, A. Wells, J. Zepeda Juarez, S. Zolotikova

www.gmes4regions.eu

GMES
Observing our planet for a safer world

SEVENTH FRAMEWORK PROGRAMME

DORIS_Net: "Downstream Observatory organised by Regions active In Space – Network„ - Coordinated Action SPA.2010.1.1-07, FP7 Space, Feb 2011-Jan 2013

Objectives

To create Copernicus Regional Contact Offices (RCO) in European Regions with people expert in Copernicus to support regional actors (companies, research, end-users, regional authorities, …) in

1. *being aware of the opportunities of Copernicus*
2. *being trained and guided in developing new products*
3. *participating in dissemination events on Copernicus*

To link RCOs in a network, sharing knowledge, tools, events and practices

To spread knowledge from the network to the interested public in the regions, countries, Europe (e.g. Copernicus , CoR)

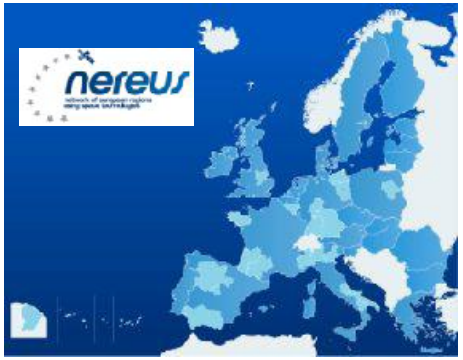
DORIS_Net: RCO network

Tasks of a Regional Contact Office:

- *Maintaining a detailed and updated picture of the regional actors in Copernicus (**inventory of capacities and needs**)*
- *Creating **events** to inform actors **on Copernicus** and leverage their **awareness***
- *Participating in the shared activities of the network; in particular*
  - *producing **market observatories** (catalogue of services, review of needs)*
  - ***dissemination** (production of success stories, fact sheets, presentations, research briefs)*
- *Tutoring new regions in their activities on Copernicus , **recruiting new RCOs***

RCOs established in:

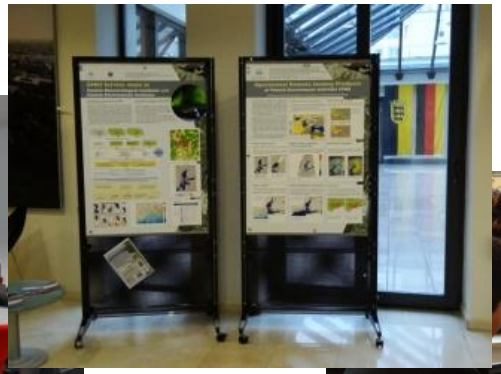
- *CNR IREA, **Lombardia**, (It) Coordinator*
- *CEON, **Bremen** (D)*
- *CETE, **Midi Pyrénées** + **Aquitaine** (Fr)*
- *G-STEP, Univ of Leicester, **East Midlands** (UK)*
- *SRCTE, **Azores** (Pt)*
- *TERN, **Basilicata** (It)*
- *POLE MER + GIS-BreTel, **Bretagne** (Fr)*



*DORIS_Net is the first project fully mobilised on the **NEREUS platform**; it has been appointed **"NEREUS flagship project"***

SDB

Creating events in and to regions: *more than 50 events held*



SDB **Producing market observatories:** *catalogue of services, review of needs*

D3.4: "Downstream Service Catalogue" *a public report aimed at regional end-users*

- *Introduction*
- *s*
- *sh*
- *Ec*
- *w*
- *re*
- *c*
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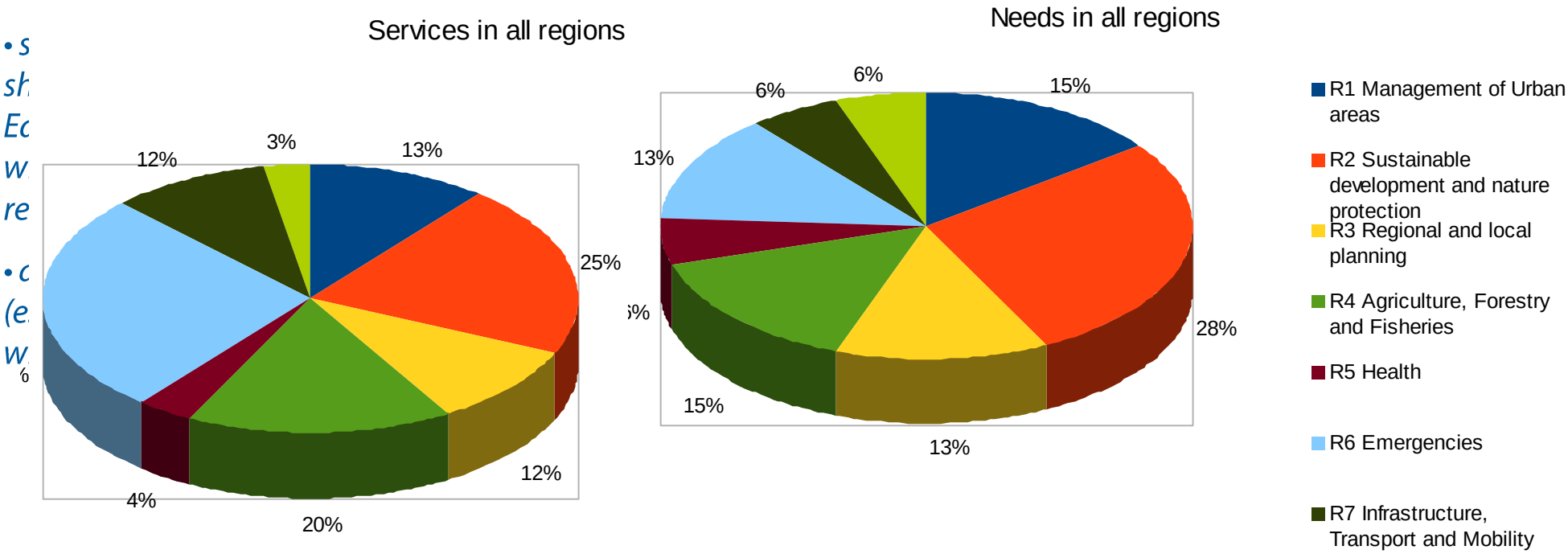
- *w*

D3.5: "Report on segmentation of user needs" *a public report aimed at potential providers of services to inform them on users' needs*

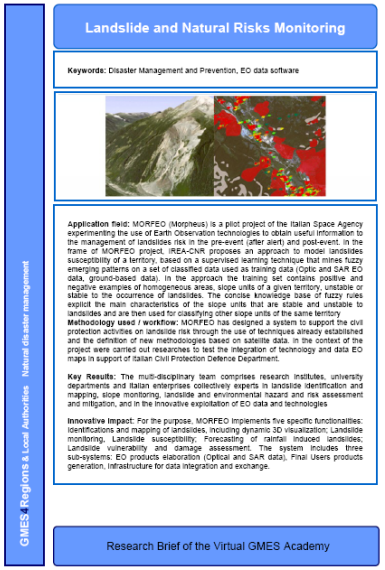
Introduction on LRAs, their priorities and interests, the



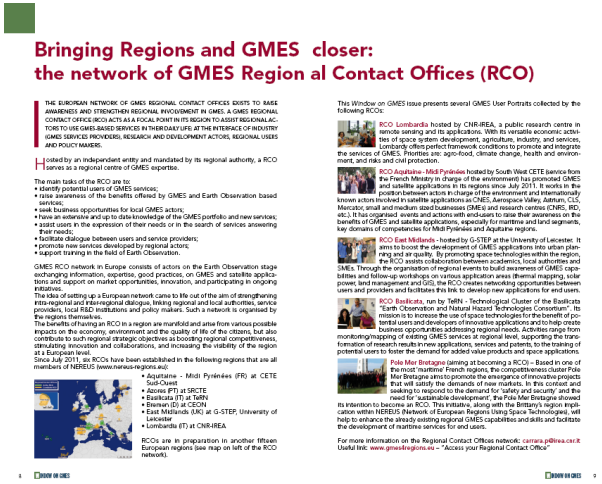
SDB

Dissemination: within GMES4regions

Information on each RCO



Research briefs

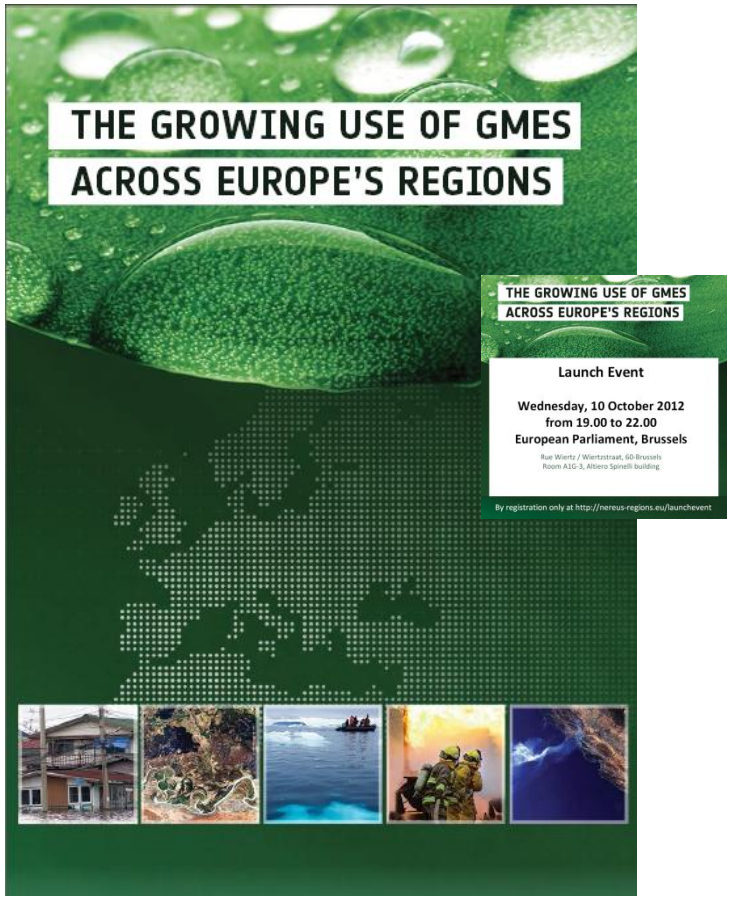


Users' portraits on *"Window on GMES"* *(launchedDec 2012)*

Information on regional research institutions

SDB **Dissemination:** *beyond regional events and GMES4regions channels*

Fact sheets on ***ESA-NEREUS brochure*** *presented at Eu Parliament:*



Published by AIT
the Italian Society of Remote Sensing

Special issue of the

Eu J. of Remote Sensing

on

"Satellite Remote Sensing in the Service of Regional and Local Authorities" (vol. 45, 2012)

Linking GMES Space Component to the development of ***land policies in Outermost Regions– the Azores (Portugal) case-study***

Monitoring urban development consolidation for ***regional management on water supply*** *using remote sensing techniques*

Use of satellite remote sensing for ***coastal conservation*** *in the Eastern African Coast: advantages and shortcomings*

Synergy between ***GMES and regional innovation*** *strategies: Very High Resolution images for local planning and monitoring*

Ten years of ***local water resource management****: Integrating satellite Remote Sensing and Geographical Information Systems*

A hybrid multi-step approach for ***urban area mapping in Milan Province****, Italy*

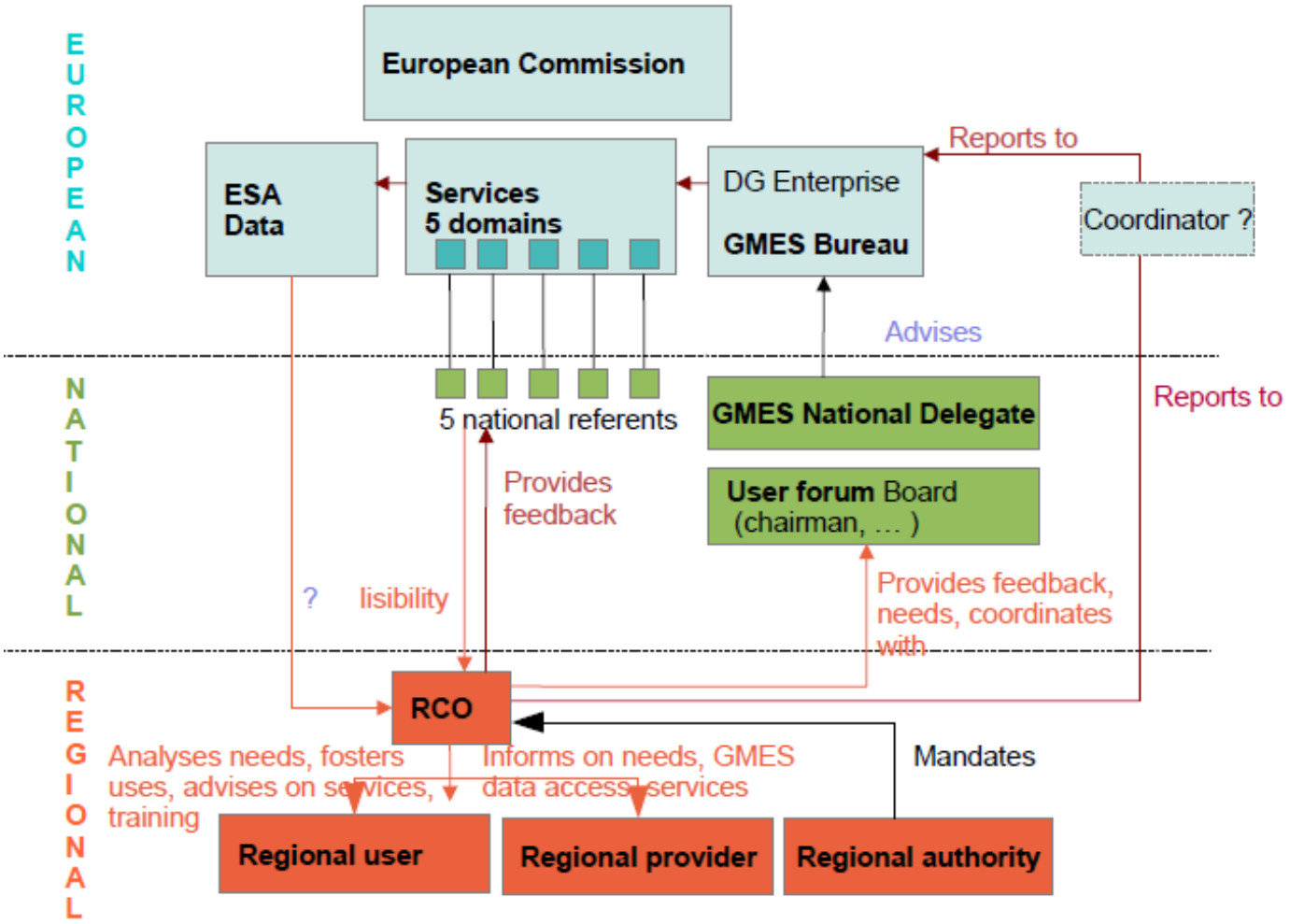
Remote sensing supports the definition of the ***water quality status of Lake Omodeo*** *(Italy)*

An application of COSMO-SkyMed to ***coastal erosion studies***

Portability of neural nets modelling ***regional winter crop acreages*** *using AVHRR time series*

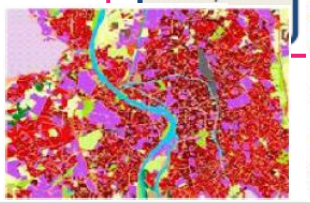
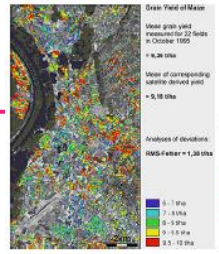
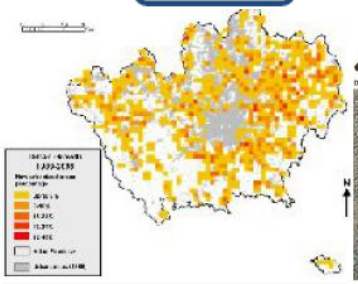
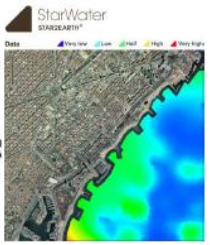
Optimised Pattern Size for ***land cover–land use*** *information conversion*

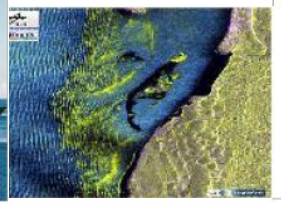
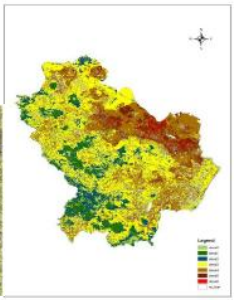
Report on recommendations to include regions in the Copernicus Governance



Report on correlations between SMEs capability and user needs

- **Management of Urban areas**
  - Urban planning and management
  - Renewable energies
  - Urban Energy efficiency
  - Waste management
  - Water management
  - Ports and Harbours management
- **Sustainable development and nature protection**
  - Renewable energies
  - Forest and green areas
  - Natural resources management
  - Urban Energy Efficiency
  - Coastal Management
  - Protected areas management
  - Biodiversity and ecosystem
- **Regional and local planning**
  - Urban planning and management
  - Rural planning and management
- **Agriculture, Forestry and Fisheries**
  - Soil moisture
  - crop classification and crop Monitoring
  - Agricultural Pollution Monitoring
  - Water Scarcity
  - Forest Monitoring
  - Phytoplankton detection
- **Health**
  - UV Exposure
  - Air quality and humidity
  - Water quality
- **Emergencies**
  - Natural disaster management
  - Early warning
  - Industrial risk management
  - Search and Rescue Operations
  - Maritime Surveillance
- **Infrastructure, Transport and Mobility**
  - Transport Network Management
  - Air quality (traffic management)
  - Industrial Risk Management
  - Maritime Surveillance
- **Tourism**
  - UV Exposure
  - Air Quality
  - Bathing Water Quality and Temperature
  - Hazard Warnings
  - Snow cover and quality
  - Weather forecasts

DORIS_Net: lessons - conclusions

We learned that

- *... acting as a network is not easy nor fast, but it creates precious synergies*
- *... that ST awareness and potential is higher in regions hosting a RCO*
- *... that RCO job and success is based on person-to-person relationships and deep knowledge of its own territory -> **it takes time to grow! We're still at the beginning!***

Conclusions

- *DORIS_Net raised **interest in many regions** and organizations*
- *It seems to be one of the more lively communities **in NEREUS***
- *RCOs are pursuing **a promising activity to the benefit of Space Tech** (regional awareness, local market development) and regions (innovation, end users federation, ...) -> they deserve trust and breath!*

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THANK YOU

ANY QUESTIONS?

GOOD BYE by DORIS_Net!!!

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