



Making the regional link to GMES- the DORIS Net project

Christelle BOSC
CETE du Sud-Ouest / MEDDE

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DORIS Net in a nutshell



DORIS_Net accompanies the regional development of GMES applications and aims at showing a way how a regional link to GMES can be made

- „Downstream Observatory organised by Regions active In Space – Network“, Coordinated Action project FP7 Space
- It is the first project fully mobilised on the NEREUS platform, and was promoted “NEREUS flagship project”
 - > 13 Project Partners (part of consortium and NEREUS)
 - > 7 Outreach Regions (not part of consortium, not part of NEREUS)
 - > Open to expansion!

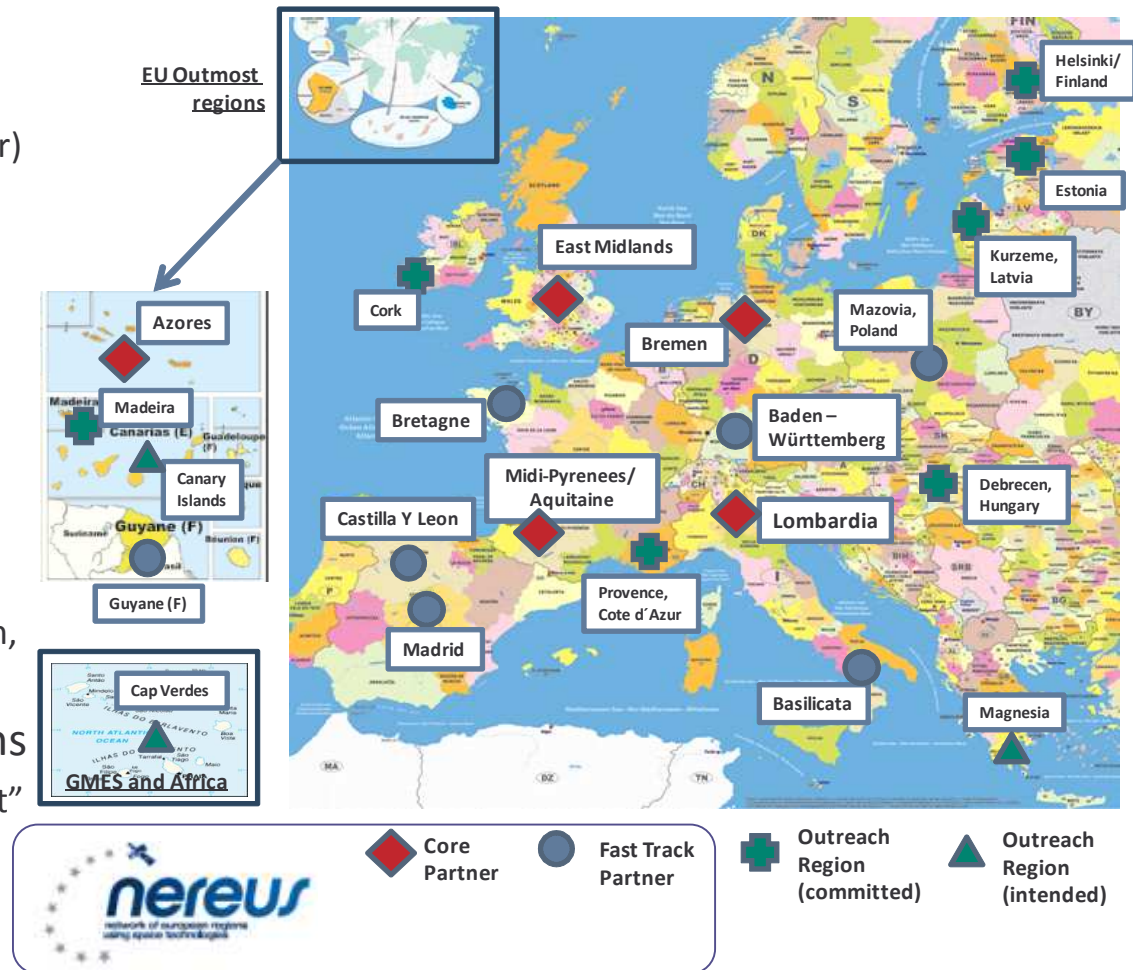


26 regions



The DORIS Net partnership concept

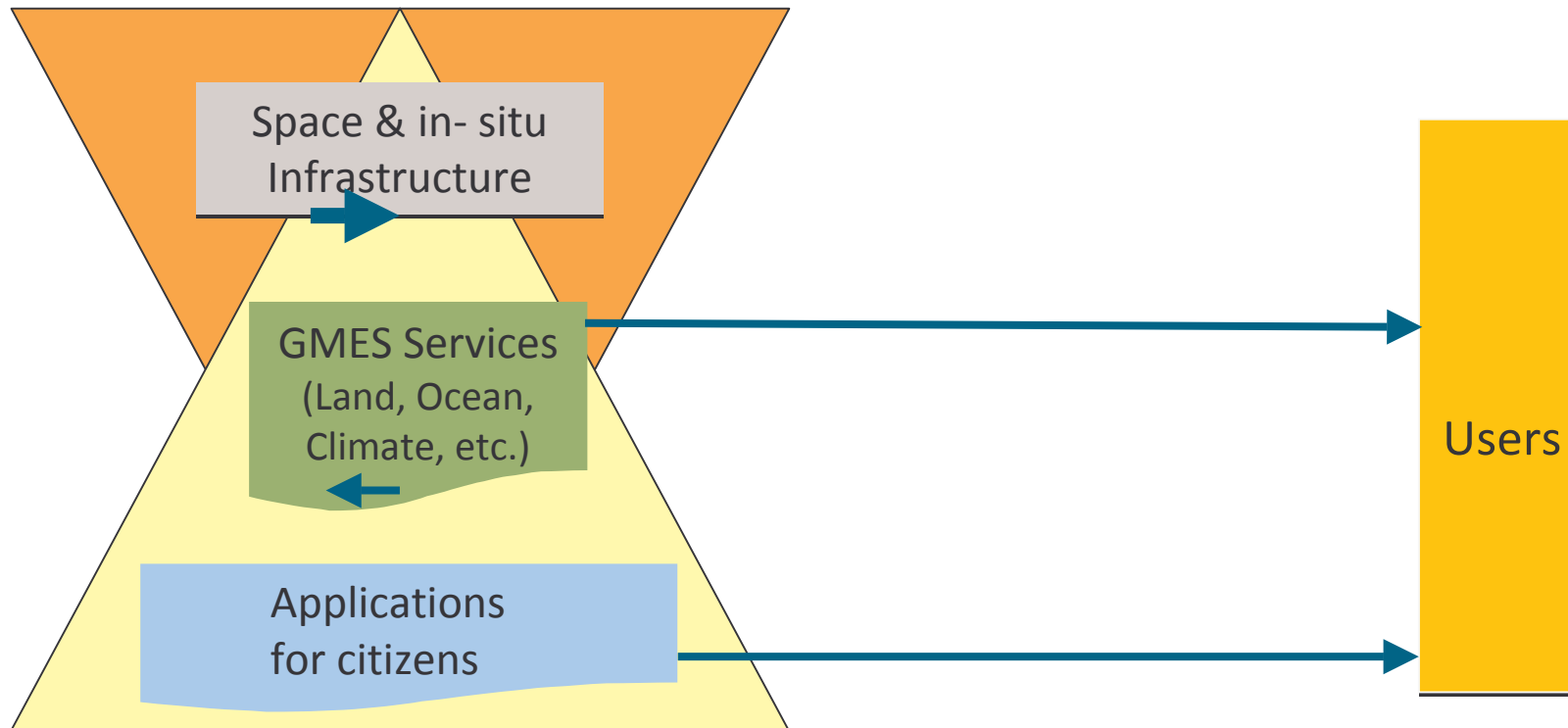
- 5 regions as core partners
 - > Germany: Bremen (Coordinator)
 - > France: Midi-Pyrenees and Aquitaine
 - > Italy: Lombardia
 - > UK: East Midlands
 - > Portugal: Azores Region
- 7 regions as “fast track” partners
 - > Baden-Würthemberg, Frz. Guyana, Madrid, Castilla y Leon, Basilicata, Bretagne, Mazovia
- 7 regions as Outreach regions
 - > Committed via “Letter of Intent”



DORIS Net Consortium

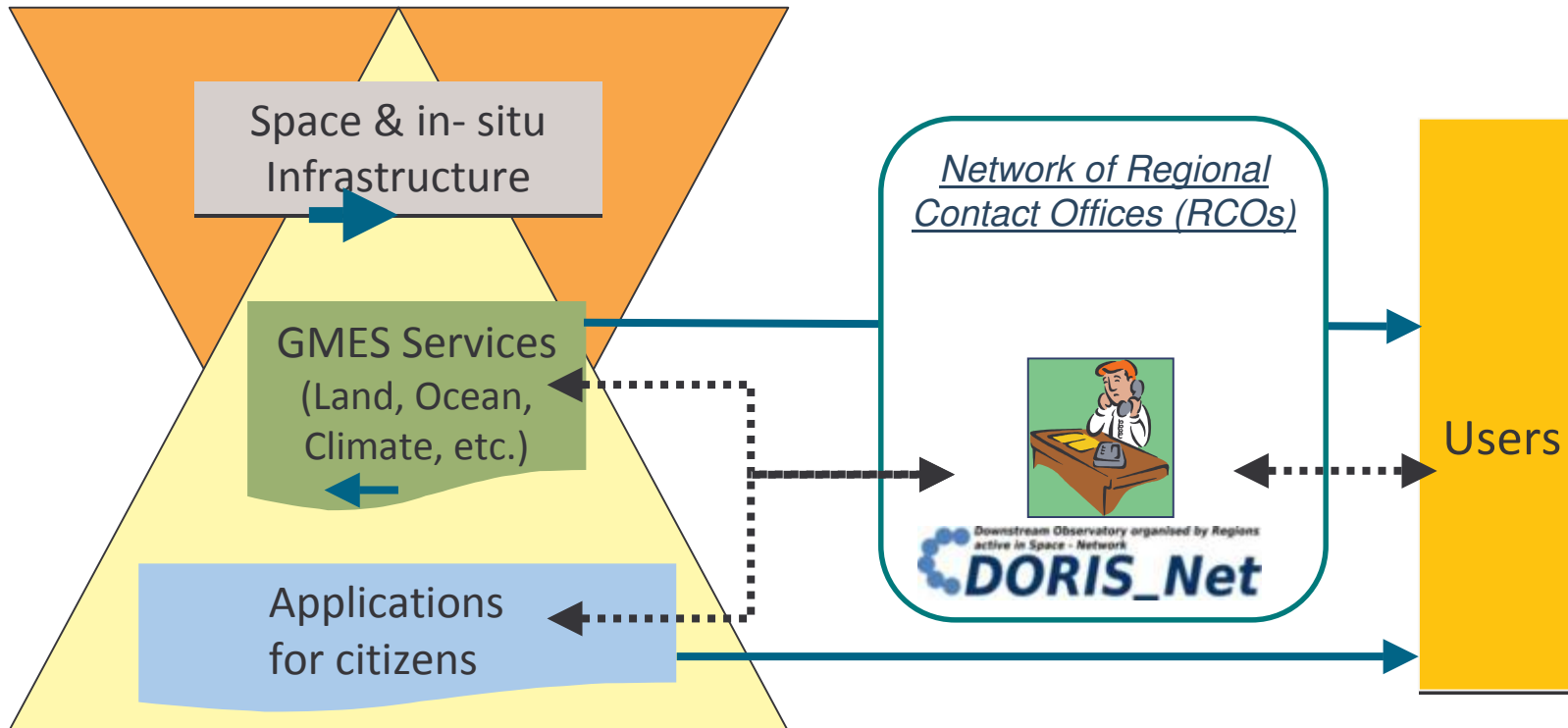
Centre for Communication, Earth Observation and Navigation Services GmbH (CEON), Coordinator	Bremen (D)
University of Leicester/ G-STEP (ULEIC)	East Midlands (UK)
Centre d' Études Techniques du Sud-Ouest (CETE)	Midi-Pyrenees and Aquitaine (F)
Capital High Tech (CHT)	(F)
Secretaria Regional da Ciência Tecnologia e Equipamentos (SRCTE)	Azores (P)
Consiglio Nazionale delle Ricerca (CNR-IREA)	Lombardy (I)
Tecnologie per le Osservazioni della Terra e i Rischi Naturali (TeRN)	Basilicata (I)
ADEuropa Foundation (ADE)	Castilla Y Leon (E)
Madrid Cluster Aerospace (MPAE)	Madrid (E)
Forum Luft und Raumfahrt Baden-Württemberg e.V (LRBW/)	Baden-Württemberg (D)
Pole Mer Bretagne (PMBret)	Bretagne (F)
Guyane Technopole	French Guyana (F)
Institute of Geodesy and Cartography	Mazovia (PL)

DORIS Net aims

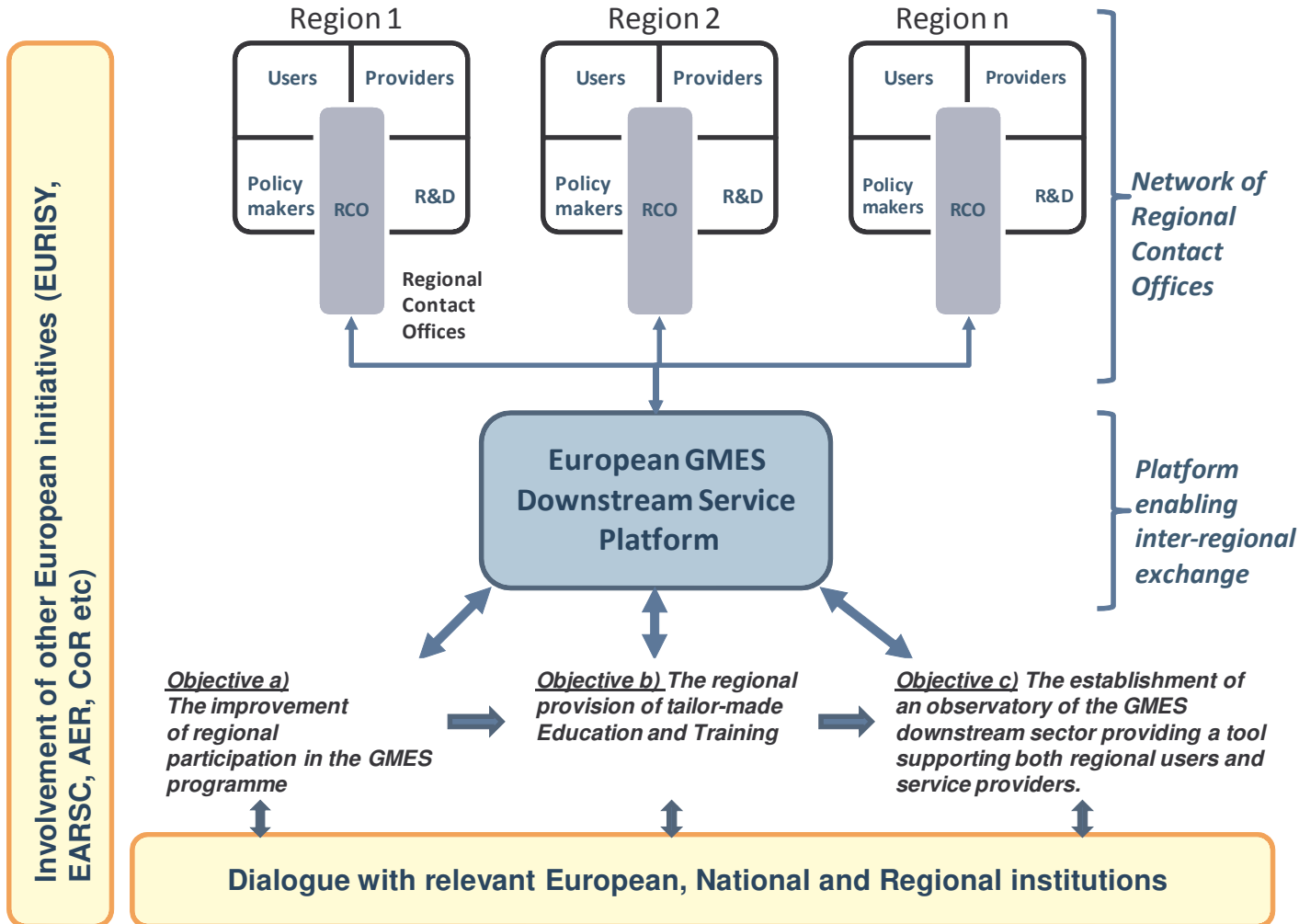


Establish a Network of Regional Contact Offices (RCOs) in order to make an effective and sustainable regional link to GMES
("link GMES to territories/ regions")

DORIS Net aims



Establish a Network of Regional Contact Offices (RCOs) in order to make an effective and sustainable regional link to GMES
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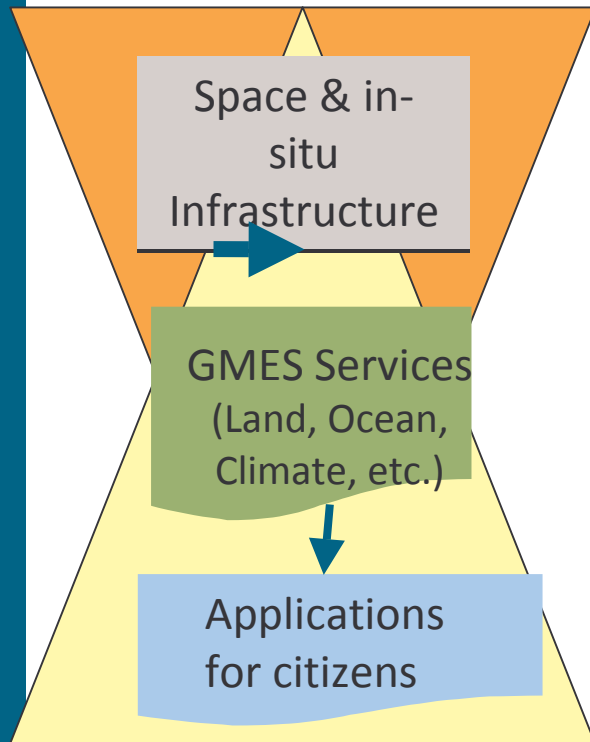
Offer

GMES, SME, R&D

Regional Contact Office

Demand

Citizens, SME, R&D

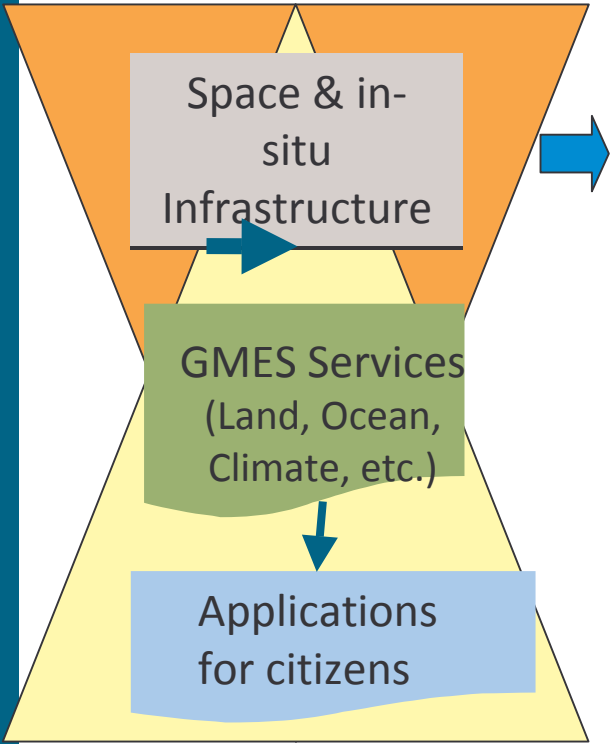


RCO Network

Regional Contact Office

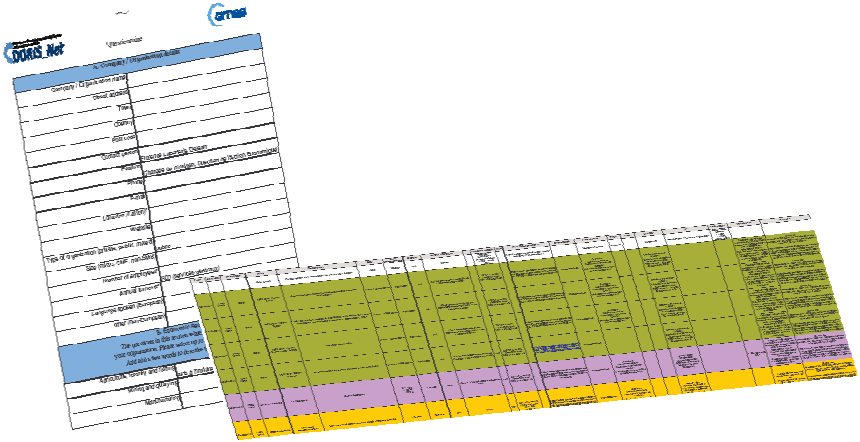
Offer
GMES, PME, R&D

Demand
Citoyens, PME, R&D



Cartography of offer and demand
- questionnaire
- database

Who?
Regional Specificities
Needs

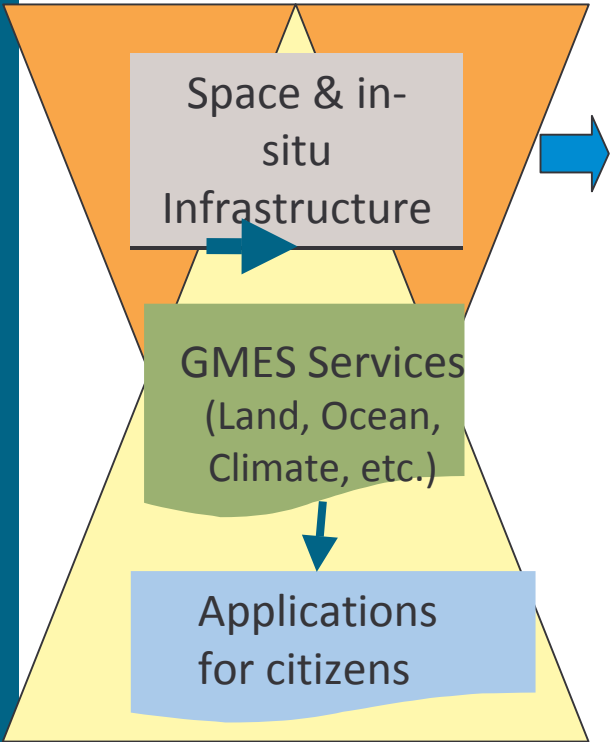


RCO Network

Offer
GMES, SME, R&D

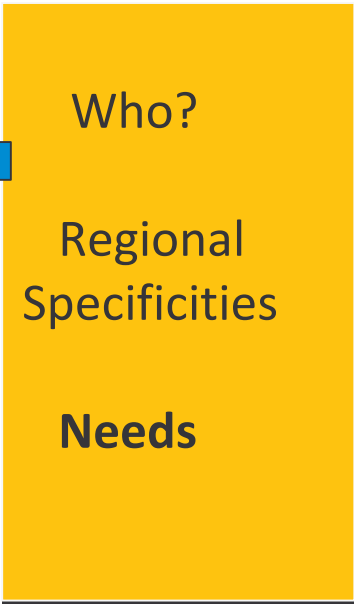
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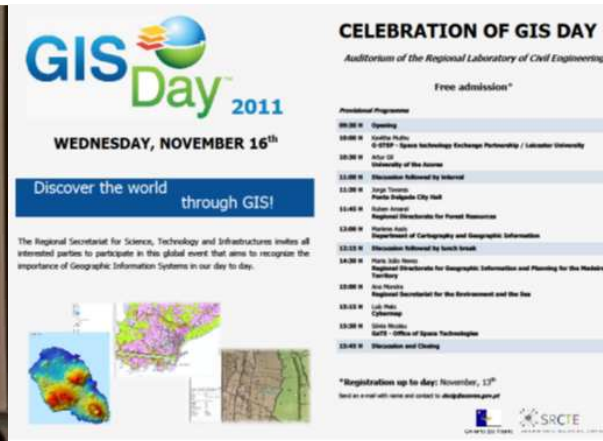
Communicate on useful services
- event
- brochure



Regional activities in parallel across DORIS Net regions



Bremen, 25.01.2012



Azores, 16.11.2011



Milan,
30.01.2012



Leicester,
01.11.2011

Regional activities in parallel across DORIS Net regions

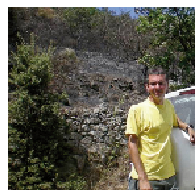
User portraits « Windows on GMES

Portraits of GMES users

GMES services help local authorities to prevent forest fires in Haute-Corse



WITHIN THE FRAMEWORK OF THE RESCUE PROJECT FUNDED BY THE EUROPEAN SPACE AGENCY THE "DIRECTION DEPARTEMENTALE DE L'AGRICULTURE ET DES FORETS" FROM HAUTE CORSE (FROVING A, AGRICULTURE AND FORESTRY DIRECTORATE OF NORTHERN CORSIKA), IN ITS MISSIONS FOR THE PREVENTION OF FOREST FIRES, THE GMES BURN SCAR MAPPING SERVICES OFFERED BY INCOTERRA, AFTER A TWO-YEAR VALIDATION PHASE, THE OPERATIONAL UTILITY OF THE SERVICE HAS BEEN DEMONSTRATED.



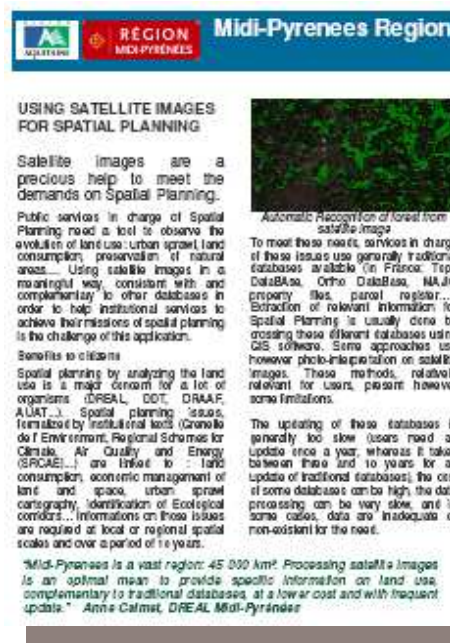
Mount CEDALI during a visit in a burnscar

After the 2003 forest fires, Corsica has developed a regional Protection Plan that requires the implementation of preventive measures. This plan mandates, in particular, detailed mapping of the fires from the previous year so as to learn the lessons and implement means to limit the propagation of fire.

The maps produced from satellite imagery in the GMES context are very useful. They enable us to work in two directions: prevention and forecast. Before and after the summer, these maps give us an accurate representation of the state of the vegetation and of the risk of forest fires. In the summer, they supply us with an accurate assessment of the fires that have taken place during the summer season. Before GMES services became available to us, our forestry agents were mapping the burnscars one by one, referring only to the field. The limited accessibility of certain areas has caused us to cut problems. Satellite offer a service that is both exhaustive and accurate. The time savings are important and our personnel is now able to devote its time to prevent the missions.

Hervé M. ALL
Direction Départementale de l'Agriculture et de la Forêt - DDAF - de Haute-Corse
(Provence Agriculture and Forestry Directorate of Northern Corsica)

50 uses NEREUS



USING SATELLITE IMAGES FOR SPATIAL PLANNING

Satellite images are a precious help to meet the demands on Spatial Planning.

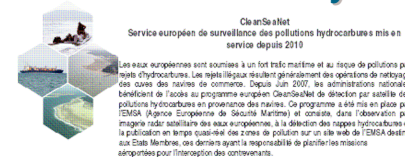
Public services in charge of Spatial Planning need a tool to observe the evolution of land use, urban sprawl, land consumption, preservation of natural areas... Using satellite images in a meaningful way, consistent with and complementary to other databases in order to help institutional services to achieve their missions of spatial planning is the challenge of this application.

Benefits to citizens

Spatial planning by analyzing the land use is a major demand for a lot of organisms (DREAL, DDT, DRAAF, AUAT...). Spatial planning issues, formulated by institutional texts (Schéma de l'Environnement, Regional Schemes for Climate, Air Quality and Energy (SRCAE...)) are linked to... land consumption, economic management of land and space, urban sprawl cartography, identification of Ecological corridors... Informations on those issues are required at local or regional spatial scales and over a period of 10 years.

"Midi-Pyrenees is a vast region: 45 000 km². Processing satellite images is an optimal mean to provide specific information on land use, complementary to traditional databases, at a lower cost and with frequent update." Anne Calmet, DREAL Midi-Pyrenees

RCO Midi-Pyr. Aq



CleasNet
Service européen de surveillance des pollutions hydrocarbures mis en service depuis 2010

Les eaux européennes sont soumises à un fort trafic maritime et au risque de pollutions par huiles hydrocarbures. Les opérations de nettoyage des côtes des navires de commerce. Depuis Juin 2007, les administrations nationales bénéficient de l'accès au programme européen CleasNet de détection par satellite des pollutions hydrocarbures en provenance des navires. Ce programme a été mis en place par l'EMSA (Agence Européenne de Sécurité Maritime) et consiste, dans l'observation par imagery radar satellite des eaux européennes, à la détection des nappes hydrocarbures et la publication en temps quasi-réel de zones de pollution sur un site web de l'EMSA destiné aux Etats Membres, ces derniers ayant la responsabilité de planifier les missions adaptées pour l'inspection des navires.

Sanctuaire
Le service CleasNet répond à la Directive 2005/33/CE du 7 septembre 2005 relative à la pollution causée par les navires et à l'introduction de substances nocives en cas d'infraction de la directive OMSA à relation OCS pour couvrir la zone Atlantique Nord.

La disponibilité
En France, l'autorité nationale compétente est la D accessible aux données françaises en charge de ces données déployées pour surveiller les eaux des côtes françaises.

Des informations techniques

- ✓ Réalisée à partir de données Satellite Radar (SAR)
- ✓ Les scènes sont acquises dans un mode ScanSAR (50 mètres) adapté à la visualisation des dangers.
- ✓ Livré sous forme de cartes HTML, disponible tout à

Accès au produit

- ✓ Zone géographique où le produit est disponible : ZI
- ✓ Comment l'obtenir : Via l'EMSA ou Direction des AR



Contact : Jean-Yves LEBRAS
DORIS
6-10, Rue Héribert - 31520 RAMONVILLE SAINT-AGNE
Tél : +33 (0)5 61 29 37 20 - Fax : +33 (0)5 61 29 39 33
Mail : jlebras@doris.fr
www.doris.fr - www.viasat.eu

PRESENTATION DE QUELQUES SERVICES SATELLITAIRES EN APPUI A LA GESTION DE LA MER ET DU LITTORAL

Journée DORIS Net
pour les Régions Aquitaine et Midi-Pyrénées

« Des applications satellitaires au service de la Mer et du Littoral »

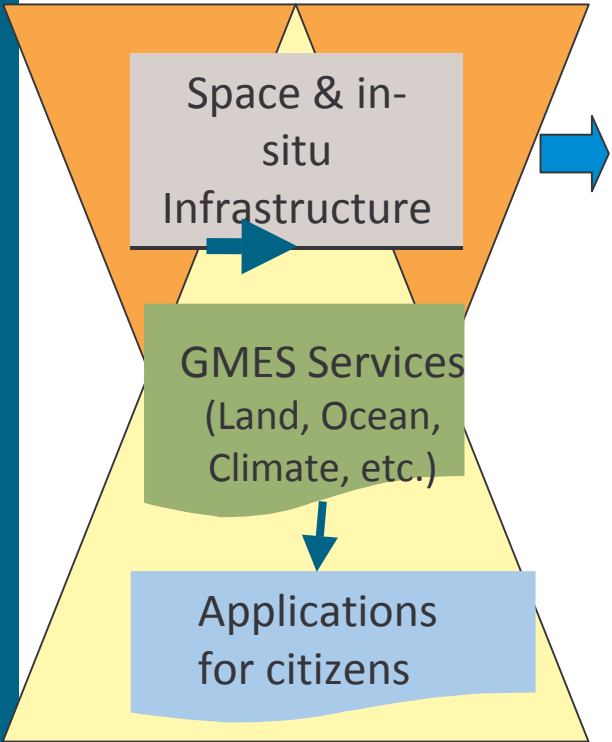
PESSAC le 29 mai 2012

RCO Network

Offer
GMES, SME, R&D

Regional Contact Office

Demand
Citizens, PME, R&D



Cartography of offer and demand
- questionnaire
- database

Communicate on useful services
- event
- brochure



RCO Network

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Space & in-situ
Infrastructure

Cartography of offer and demand

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Who?

Regional Specificities

GMES Services
(Land, Ocean, Climate, etc.)

Communicate on useful services

- brochure
- events

Needs

Applications
for citizens

Accompany users / providers :

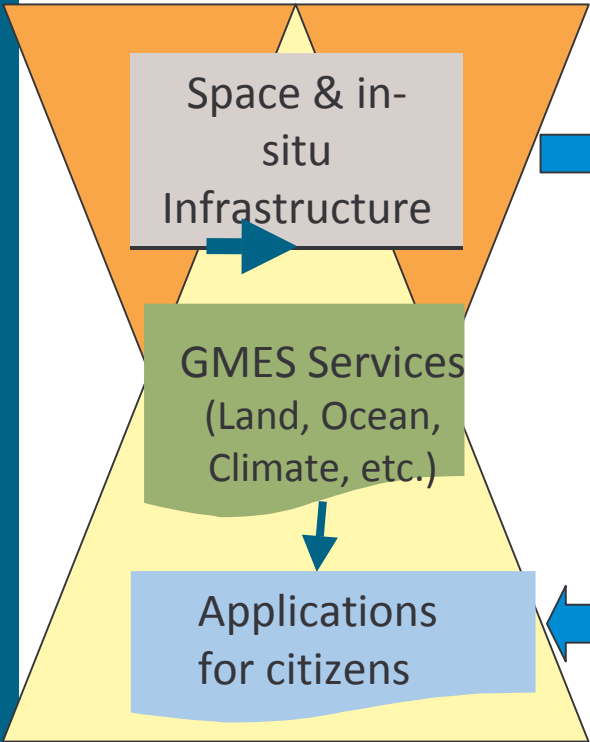
- facilitate access to services
- popularise services

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Accompany users / providers :
- facilitate access to services
- popularize services

Communicate on our RCO



Regional activities in parallel across DORIS Net regions

BUREAU DE CONTACT REGIONAL
MIDI-PYRÉNÉES - AQUITAINE

« Global Monitoring for Environment and Security » (GMES) ?
Il s'agit d'un programme européen qui vise à mettre à disposition des données satellitaires et des services adaptés aux besoins des utilisateurs pour les domaines suivants :
- Mer, Mer et Atmosphère,
- Changement climatique,
- Situation d'Urgence et Sécurité
Pour plus d'informations : www.gmes.info

Un Bureau de Contact Régional ? Ses missions ?
Un BCR est un bureau régional des applications satellites en observance.
Ses missions consistent à :
- Réseauter les services GMES, les promouvoir et communiquer
- Sensibiliser et valoriser le potentiel des services GMES,
- Identifier les utilisateurs potentiels de ces services,
- Accompagner les utilisateurs dans leur recherche de service
- Favoriser le dialogue entre les utilisateurs et fournisseurs d
- Créer des opportunités de développement de nouveaux : si un besoin identifié.

Qu'en est-il pour les régions Midi-Pyrénées et Aquitaine
Le Centre d'Etudes Techniques de l'Équipement (CETE) du Sud-Ouest, des Compétences et d'Innovation (PCI) Applications Satellites et Télécom dont la mission est de promouvoir l'utilisation des technologies satellitaires de la Terre, Navigation et Télécommunications, a été mandaté par le CE Midi-Pyrénées et la Pôle de Compétitivité Aerospace Valley pour diriger le projet DORIS_NET et assurer la mission de Bureau de Contact Régional, Midi-Pyrénées et Aquitaine.

Pourquoi nous contacter ?
Si vous êtes utilisateur, pour :
- S'informer sur l'apport potentiel des satellites dans vos
- Faire connaître un nouveau besoin,
- Trouver un service correspondant à votre besoin.
Si vous êtes fournisseur de service, pour :
- Faire connaître un nouveau service,
- Rencontrer de nouveaux utilisateurs, potentiels clients

CONTACTS

Christelle BOSCH
Tél : + 33(0)5 42 25 97 07 Fax : + 33(0)5 42 25 97 98
e-mail : christelle.bosch@developpement-durable.gouv.fr

Didier TREINS OUTROT
Tél : + 33(0)5 42 25 97 01 Fax : + 33(0)5 42 25 97 98
e-mail : didier.treinsoutrot@developpement-durable.gouv.fr

CETE du Sud-Ouest
Département Aménagement Laboratoire Expertise
Transports de Toulouse (DALET)
1, avenue du Colonel Roche - 31400 TOULOUSE
www.cete-sud-ouest@developpement-durable.gouv.fr
(régionale BCE)
DORIS_Net : www.doris-net.eu

How to access? The wider picture- GMES4Regions



FP7 3rd Space Call, Coordination Action,
“Fostering downstream activities and links with regions”



GMES4REGIONS

www.gmes4regions.eu/

- 2 projects started 01.02.2011 , end January 31st, 2013
- Access through a joint website

How to access your Regional Contact Office

- Each Regional Contact Office (RCO) is connected to the DORIS_Net platform and GMES4Regions www.doris-net.eu
- The RCOs are hosted by a mandated regional organisation

Current status- First 5 RCOs operational

- DORIS_Net developed the methodology and up to now, five RCOs exist:
 - East Midlands
 - Midi-Pyrenees/Aquitaine
 - Bremen
 - Lombardia
 - Azores
 - Basilicata
- This network is set to grow



Status of DORIS_Net RCO network

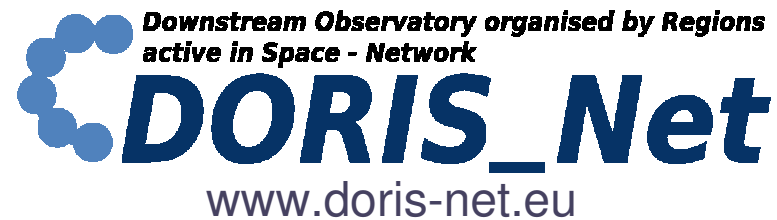
Why a region should implement its own RCO?

Help regional actors to take benefit from GMES

- Provide answers to local actors in charge of **environment and security**
- Provide more visibility to providers
- Foster the use of satellite applications
- Favour **economical development**
- **Develop network** of actors involved in space
- Provide more **visibility** to the RCO host structure
- Take **benefit from Doris_Net tool and methodology**



Thank you for your attention!



For further information:

Christelle BOSC

christelle.bosc@developpement-durable.gouv.fr