

NEREUS – the Network of European Region Using Space Technologies



2nd EO-GMES Workshop Sofia/BG

18 March 2011

Overview

- Role of regional level in the context of new European Space Policy
- NEREUS in a nutshell
- Impact of GMES for regions

A new Space Policy for Europe in the context of Art. 189 of the Lisbon Treaty

Art. 189 of the Lisbon Treaty

- Space – now horizontal EU Policy
- EU and its MS are now formally committed, to conduct **an ambitious Space Policy** to the benefit of its citizens, public authorities and the community of economic stakeholders
- Legal basis and an explicit competence in Space for the EU
- Shared competence with MS

Space as a horizontal EU Policy

Space is an important driver to meet current societal challenges and is fundamental for

- Europe 2020 Strategy
- European Industrial Policy („An integrated industrial policy for the globalisation era“)
- European Research and Innovation Policy
- European SME Policy
- EU approaches to meet the challenges of Climate Change

7th Space Council Resolutions: "Global challenges: taking full benefit of European space systems"

Brussels, 25 Nov 2010

- ⇒ flagship programmes Galileo and GMES (Global Monitoring for Environment and Security) remain the priorities for the EU in space



- ⇒ With EGNOS/Galileo and GMES the Union pursues two space initiatives which are close to the citizens
- ⇒ GMES and EGNOS/Galileo offer manifold uses for regions and their citizens
- ⇒ NEREUS came along with the growing role and impact of citizens for the development of GMES

NEREUS History

- March 2006: Conference “the role of Europe’s regions in GMES”
- April 2006: Graz conference “A Market for GMES in Europe and its regions”
- December 2007: Signature of Political Charta by 23 European regions
- April 2008: Founding NEREUS a.i.s.b.l.
- February 2009: Establishment of permanent NEREUS-secretariat in Brussels

NEREUS Rationale

- Space technologies play a key role in supporting the economic growth, industrial competitiveness, scientific research and innovation and a sustainable development of the European Regions
- The NEREUS-network was created with the aim to close the existing gap between the space technologies end-users and institutional actors of European Space policies at regional level

GMES – Role of Regions

- Regions play two key roles:
 - as end-user of GMES-data and services
 - they contribute to the development and operation of the distributed GMES system (e.g. via industrial contracts)

In a nutshell (1)

- Emphasis of the network is on **USING** space technologies on **EARTH!**
 - **Earth Observation/GMES**
 - Global Satellite Navigation (GNSS)
 - Telecommunication
 - Technologies from Space Exploration

In a nutshell (2)

- Members: 26 European regions (Full Members) and 33 Associate Members
- Initiative by regions - Regions share the governance of the network

26 Full Members

- 1.) Abruzzo (I)
- 2.) Andalusia (Spain)
- 3.) Apulia (I)
- 4.) Aquitaine (F)
- 5.) Azores (Portugal)
- 6.) Baden-Württemberg (D)
- 7.) Basilicata (I)
- 8.) Bavaria (D)
- 9.) Brandenburg (D)
- 10.) Brittany (F)
- 11.) Brussels Capital (B)
- 12.) Castilla y Leon (Spain)
- 13.) City of Vienna (AU)
- 14.) East Midlands (UK)
- 15.) Free Hanseatic City of Bremen (D)



26 Full Members

- 16) Guyana (F)
- 17.) Hesse (D)
- 18.) Lombardy (Italy)
- 19.) Madrid (Spain)
- 20.) Mazovia (Poland)
- 21.) Mecklenburg-Vorpommern (D)
- 22.) Midi-Pyrenees (F)
- 23.) Molise (Italy)
- 24.) Piedmont (Italy)
- 25.) Veneto (Italy)
- 26.) Wallonia (B)



INVITATION

We are an open network and invite all European Regions to explore the potential the use of space technologies might have for them!
Come and join!



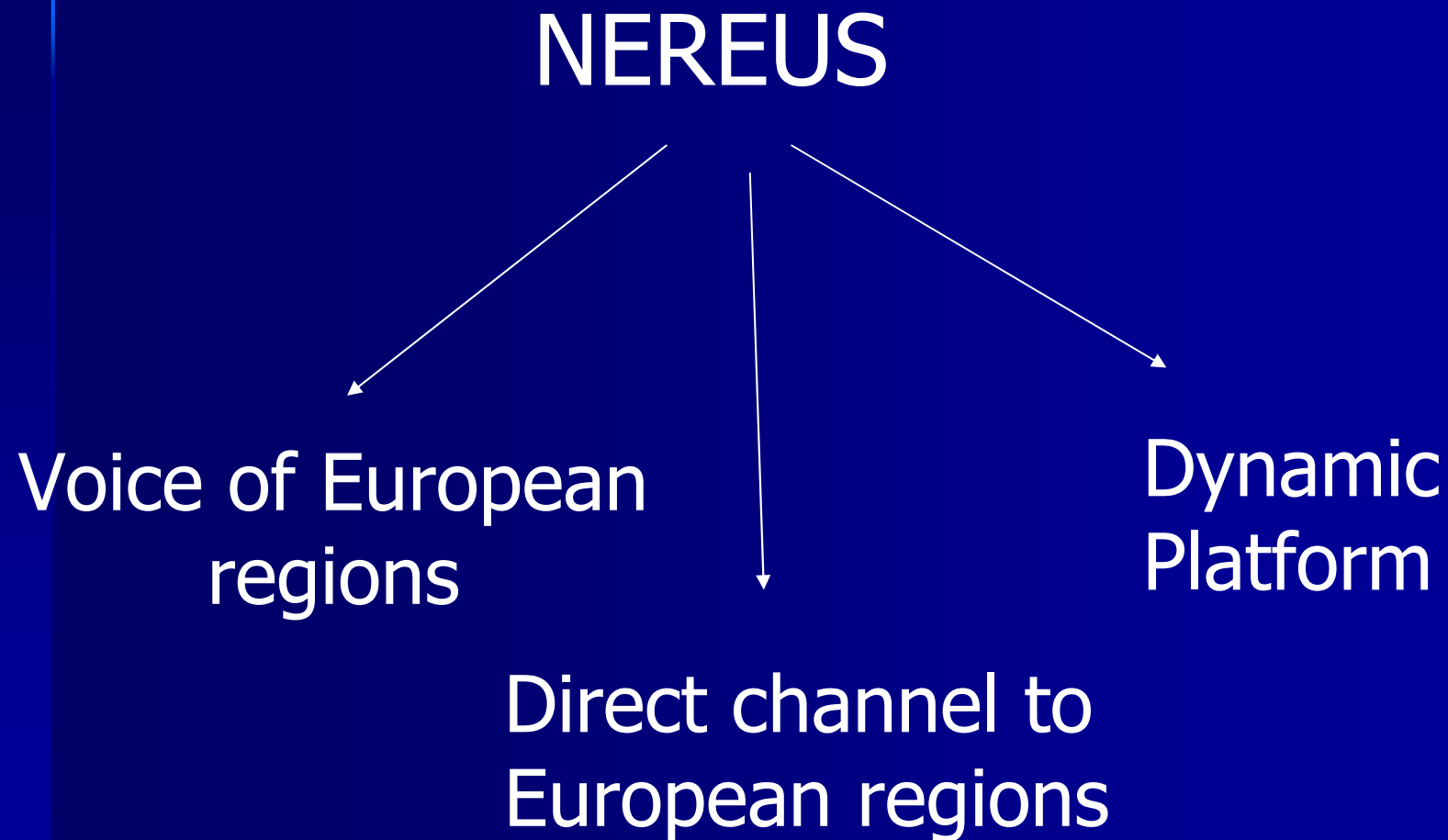
NEREUS Strategic Objectives

- An advocate for the regions in matters of space policy
- A key source of information on space matters in Europe for its members
- A direct channel to the regional community – its citizens, enterprises, actors, researchers, networks etc.

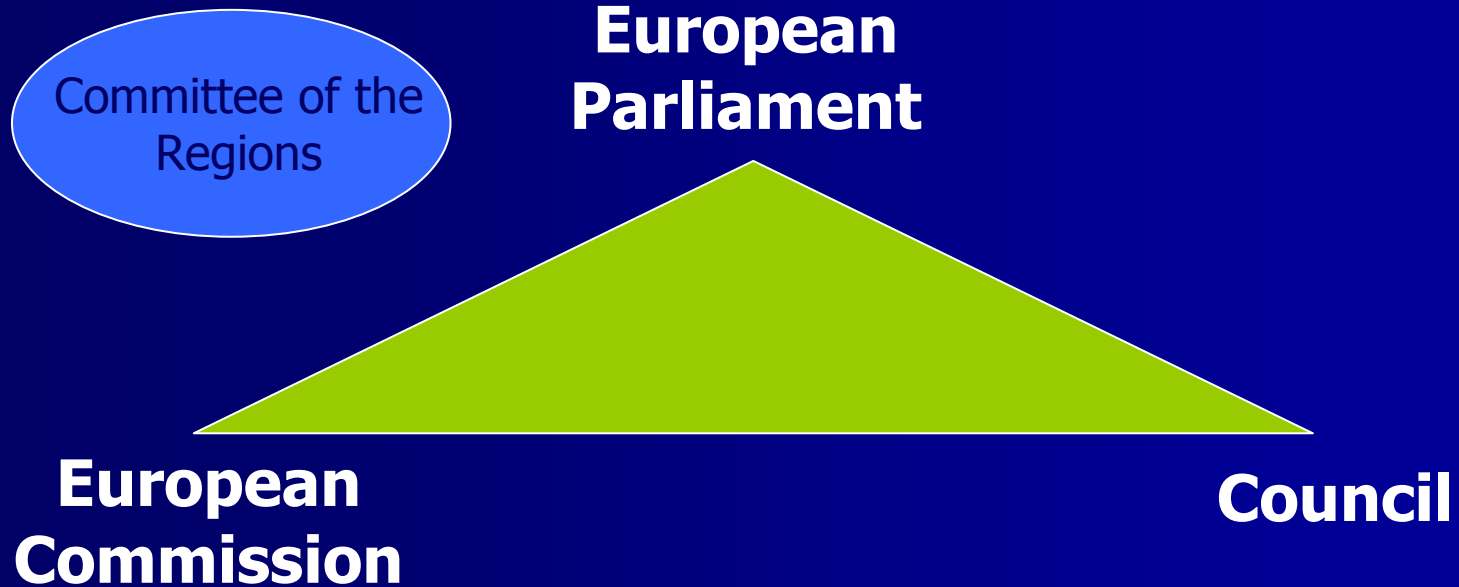
NEREUS Objectives

- Spread the use of space applications for the benefits of regions and European citizens;
- Enhance the involvement of regions and their citizens in European space activities
- Help constructing the space market: identifying user-communities and connecting end-users
- Identify and articulate user-needs
- Spreading the understanding of space
- Exploring funding opportunities for regional space applications

Main Elements



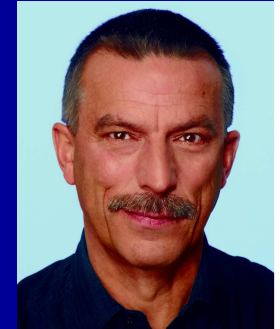
Dialogue with European Institutions



Dialogue with European Institutions

Political Dialogue (1)

- European Parliament Debate with MEP on proposed GIO-Regulation, 17 Nov 2009



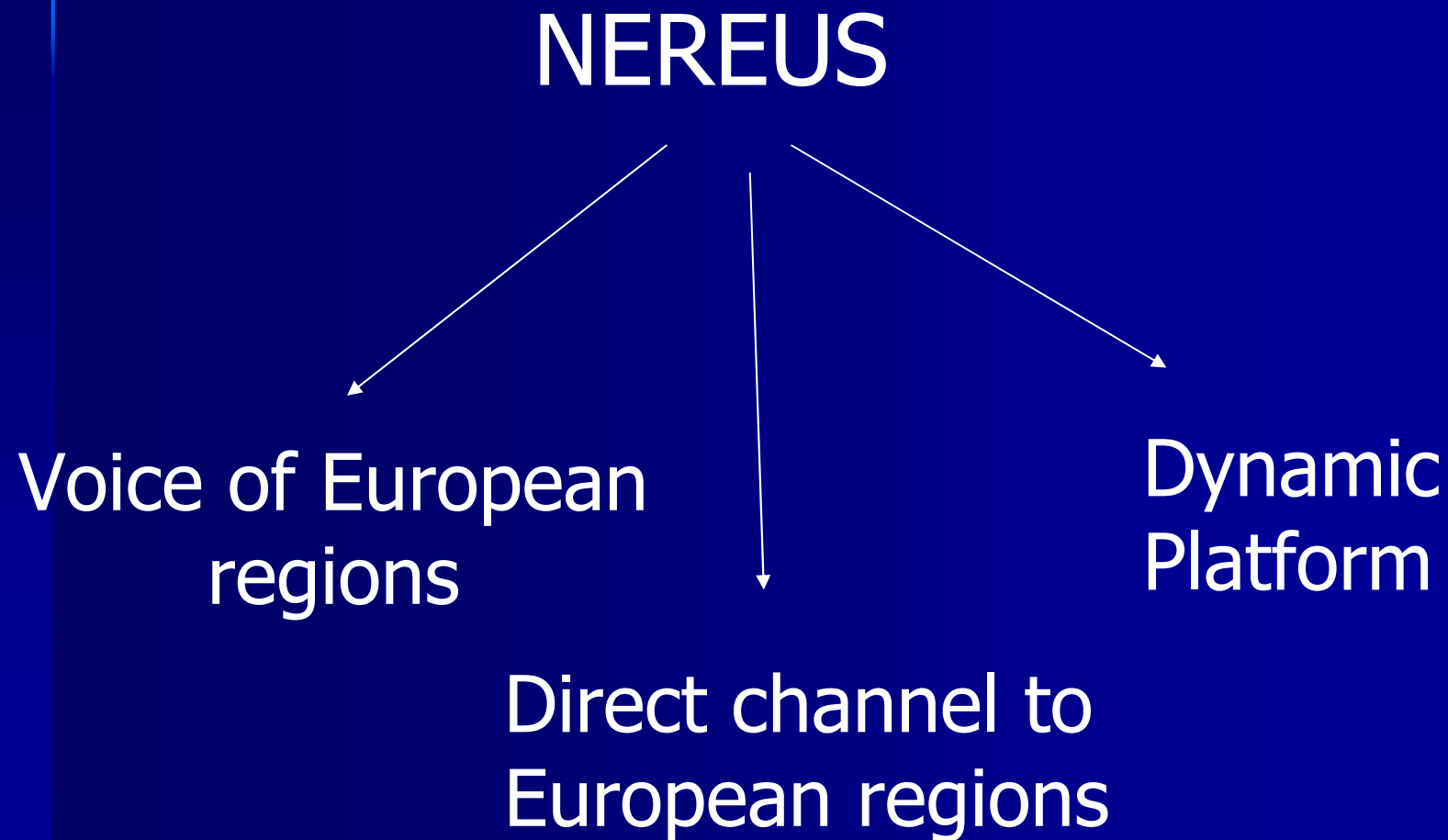
NEREUS-GMES-Event



- 01 December 2010, 14.00 – 20.00h
NEREUS-Event under Belgian Presidency:
Debate with Regional and European
Representatives on “The future of GMES after
2014 from a regional perspective”
Key note speaker:
MEP Vittorio Prodi, Italy
(President of the
Sky and Space Intergroup)



Main Elements

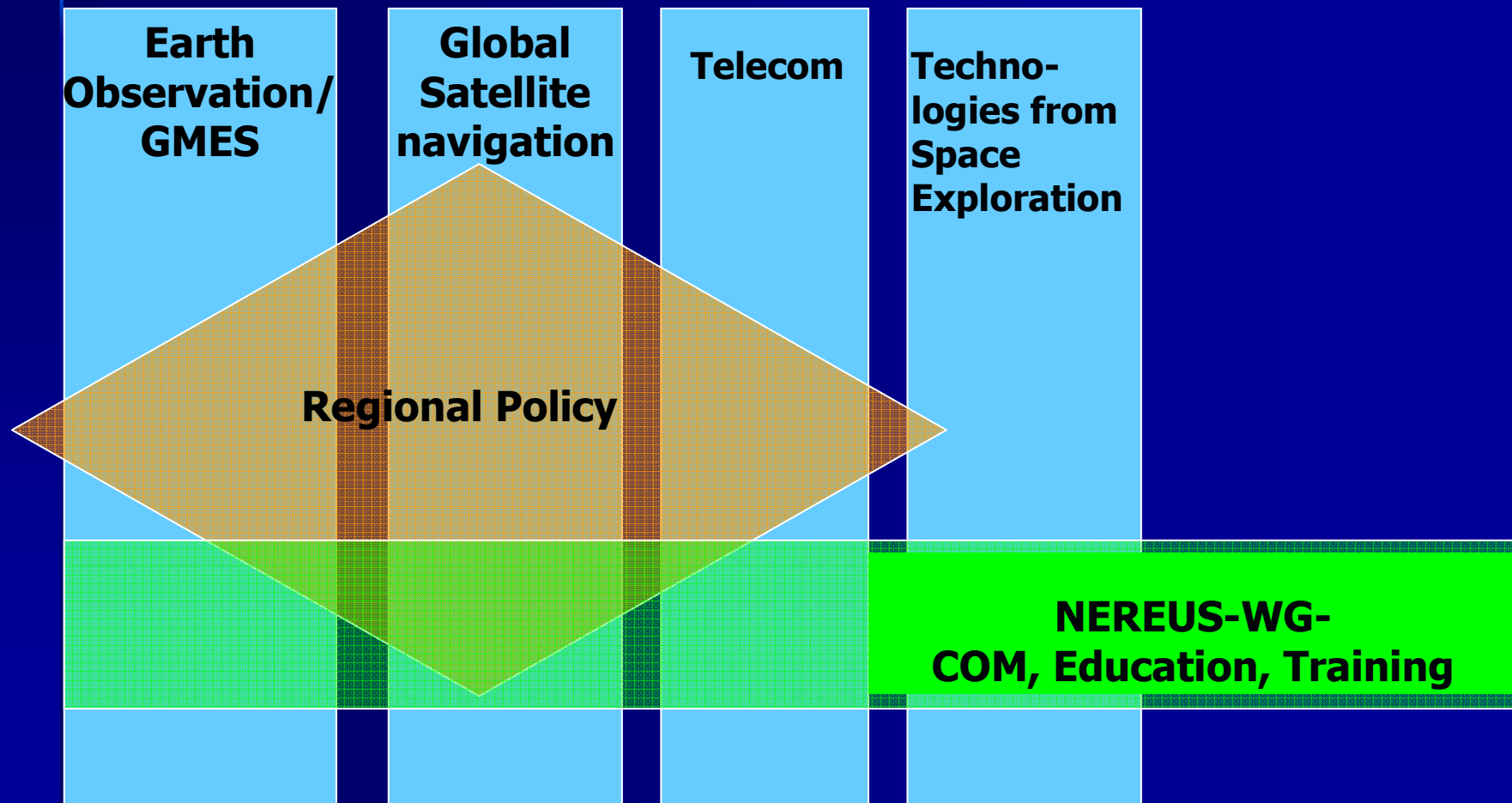


NEREUS-Plattform

For its members NEREUS wants to provide a platform for:

- Information and knowledge exchange
- Sharing experiences
- Networking and building strong partnerships
- Mobilising convincing projects and activities

Core areas of collaboration



EO/GMES-Working group



- Produced a promotional brochure of „25 GMES-Uses“ in NEREUS-member regions
- Concrete GMES-applications at regional level in different domains: land, maritime, atmosphere and civil emergencies
- Pan-European collaboration: 17 regions contributed to the collection



25 Uses of GMES in the NEREUS Regions

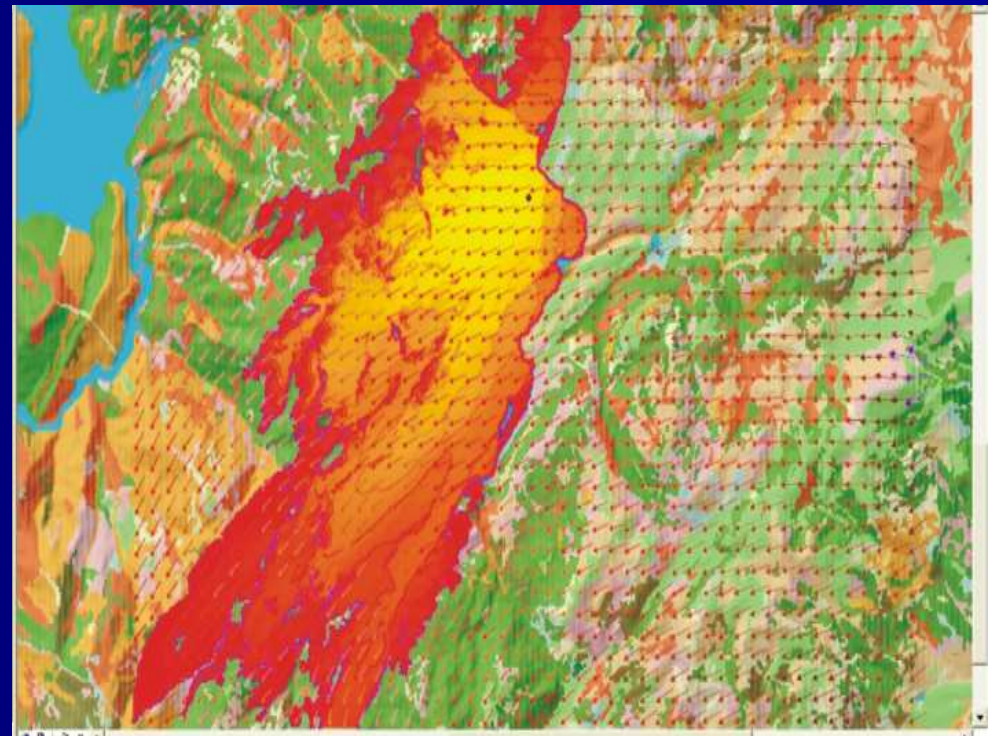
Prepared by the NEREUS Earth Observation / GMES Working Group

GMES – State of Play in Regions(1)

GMES regional applications cover all environmental and security domains:

- Civil Emergencies: forest fires for many southern European regions

Example of Fire Propagator outputs



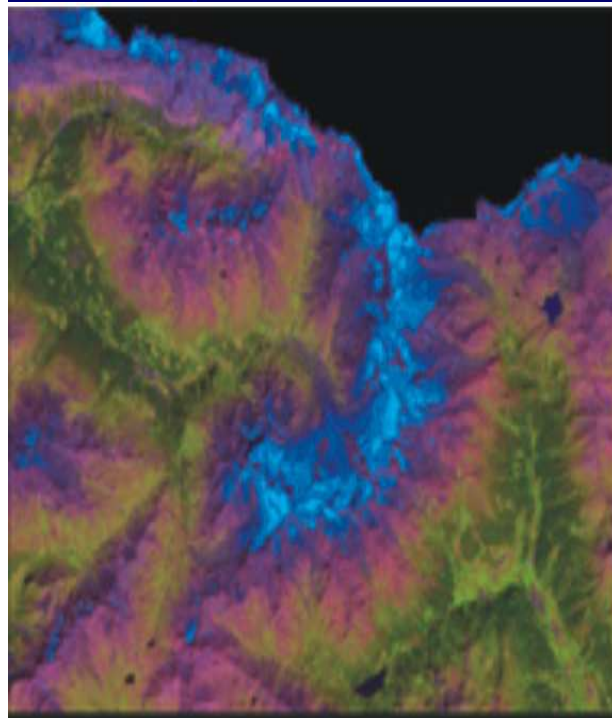
GMES – State of Play in Regions (2)

- Maritime: marine security for regions where shipping has high economic priority
- GMES is used to monitor the coastline with three main objectives:
 - to improve the knowledge,
 - to quantify the movement and
 - to anticipate the risks by defining a Coastal Risk Prevention Plan on the ocean front

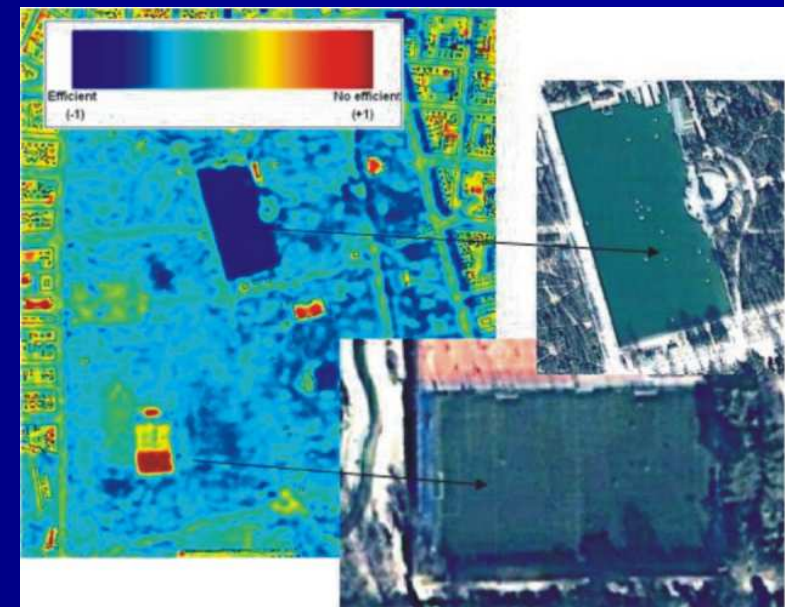
GMES – State of Play in Regions

- Atmosphere: air quality in urban conurbations
- Land: managing water resources and agricultural land use, ...

Temperature map of
Retiro Park in Madrid City



SPOT image
acquired
July 30th, 2003



Intended purpose “25 Uses”

- Provide reference to a representative sample of the GMES market in the regions
- Promote GMES to regional end users
- Inform “policy shakers and movers” about GMES markets applications and opportunities

Provisional findings.

GMES systems and services from service providers are not always meeting the needs of regional and local administrations and potential end-users.

Regional/local administrations and commercial enterprises, as potential end users, may be unfamiliar with existing EO/GMES data systems and services and their potential for use outside the space sector.

Indicates need for more focussed communications, wider-based dialogue and better training facilities.

Views of NEREUS Regions (1):

- NEREUS calls for a timely implementation of the GMES-Flagship Project offering manifold opportunities for regions and their citizens
- GMES is indispensable
 - for monitoring climate change and observing our planet
 - for responding adequately to EU-environmental legislation (e.g. INSPIRE)
 - for managing our territories

Views of NEREUS Regions (2)

- Spread radically knowledge for potential uses of GMES/EO data
- Raise Awareness for potential uses of GMES/EO among non-space sectors (cross-sectorial use)
- Training and Education of different societal and professional groups how to use/analysis GMES/EO data
- Better Communication

DORIS_Net-Project

- DORIS: **D**ownstream **O**bservatory organised by **R**egions active **I**n **S**pace
- Bremen (CEON) mobilised project proposal for FP7-Space/GMES-call in 2009
- Support Action - "Fostering downstream activities and links with regions"
- Project proposal was selected by European Commission and will start beginning 2011
- 13 NEREUS-partners involved in project activities
- NEREUS officially supports project

For more information on NEREUS, please
visit our website:

<http://www.nereus-regions.eu/>

