

Copernicus for Public Users

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Copernicus EU

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www.copernicus.eu

Space



NEREUS stands for "Network of European Regions Using Space Technologies"



26 Full Members (Regions) 36 Associate Members

> Regional Authorities Regional Administrations Potential End users



PLATFORM



European



Grasping Space Opportunities starts with **people** and their **needs**







- Public Users: Key takeaways for Local and Regional Authorities (LRA) in Europe
- LRA&Copernicus- get to know your clients!
- Value of Interregional collaboration for Copernicus
 Deployment: better informed and interlinked users
 potentially lead to more up-take and more opportunities!





Uptake

- 276 regions in Europe (NUTS_II)
 - 55% of public spending is done at local and regional level
 - Considerable public policies are across Europe in the competence of local and regional authorities
 - 70% of EU legislation is implemented at regional and local level





Uptake

Local and Regional Authorities in Europe (1)

One definition of LRAs at European level...





LOCAL AND REGIONAL AUTHORITIES IN EUROPE (2)

.....yet many variations at Member State level!

- Different <u>tiers of government</u> (villages, municipalities, districts, counties, provinces, regions, ...)
- In charge of different <u>public policies</u> related to territorial management tasks (Port authorities, ...)
- Broad variations related to <u>governance</u>: local government system, mandates and competences, human and financial resources including budgetary autonomy, separation of powers, degree to which they are accountable and representative.
- Broad variations related to geographical characteristics: population size, urban vs. rural, with or without coasts, mountainous regions, ...





LRAs in Ireland

User Uptake

 The regional level is represented by three Regional Assemblies:
 ⇒ Eastern and Midland Regional Assembly

- ⇒ Northern and Western
 Regional Assembly
 ⇒ Southern Regional Assembly
- Local authorities provide local government services at county/city level







- Copernicus can be a game changer for Local and Regional Authorities (LRAs)
- **Significant benefits** can be gained if LRAs use Copernicus information:
 - better informed decision-making,
 - Iong-term planning,
 - more efficient deployment of resources.
- Entrepreneurs have a crucial role in offering products and services based on Copernicus which can support LRAs in their territorial management tasks.





Copernicus provides information for

- Measuring
- Monitoring
- Analysing
- Forecasting/Planning





WHICH COPERNICUS-BASED SERVICES FOR WHICH REGIONAL COMPETENCES?

R4 total R5 Health UV Exposure Air quality and humidity Water quality R5 totá R6 Emergencies Natural disaster management Early warning Industrial risk management Search and Rescue Operations Maritime Surveillance R6 tota R7 Infrastructure, Transport and Mobility Transport Network Management Air quality (traffic management) Industrial Risk Management Maritime Surveillance Monitoring great yards R7 total R8 Tourism UV Exposure Air Quality Bathing Water Quality and Temperature Hazard Warnings Snow cover and quality Weather forecasts Cultural heritage R8 total

R1 Management of Urban areas Urban planning and management Renewable energies Urban Energy efficiency Waste management Water management Ports and Harbours management Ř1 total R2 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 wardship R2 total R3 Regional and local planning Urban planning and management Rural planning and management R3 total R4 Agriculture, Forestry and Fisheries Soil moisture Crop Classification and Monitoring Agricultural Pollution Monitoring Water Scarcity Forest Monitoring Phytoplankton detection

Taxonomy matching **available services** based on Copernicus data with **regional competences**!

COPERNICUS AND COMPETENCES OF LRAs

Source: DORIS_Net Final Report





Copernicus & LRA-competences in Ireland - regional level

User Uptake

> Role of Regional Assemblies with relevance to Copernicus

- Co-ordinate, promote and support strategic planning and sustainable development of the region
- Promote effective local government and public services in the region
- Prepare and oversee the implementation of Regional Spatial & Economic Strategies, e.g.
 - Martime Spatial Planning
 - Planing Framework
 - INSPIRE....

Copernicus
 provides to
 almost all
 competences
 vital information!





> Local level is represented by 26 county councils and 5 city/county councils

Competences:

- Planning permission and development control for building and development (Development Plan every 6 years, which sets out its planning policies;)
- Essential services such as roads and bridges, fire services and drainage.
- Environmental protection, in relation to pollution control and animal control

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COPERNICUS AND COMPETENCES OF LRAs

User Uptake



op	Europe's eyes on Earth	

Application Domains

Products and Services

Support Activities

Project Database

News Events

Press Room

Tenders and Grants

Document Repository

Overview





Home > Application Domains

Through the different thematic areas it addresses (land, marine, atmosphere, climate change, emergency management and security), Copernicus supports applications in a wide variety of domains.

These include agriculture, forestry and fisheries, biodiversity and environmental protection, climate and energy, civil protection and humanitarian aid, public health, tourism, transport and safety, as well as urban and regional planning.

This section illustrates with concrete examples the benefits that Copernicus can bring to users in these various domains. Concrete examples are also available through a series of Copernicus Briefs produced by ESA.



Regional

Planning











Source: www.copernicus.eu/main/application-domains





LOCAL AND REGIONAL AUTHORITIES IN EUROPE

Think that

LRAs competences = Territorial management tasks LRAs needs = user requirements EU Directives = framework conditions

This helps to imagine, prototype and define the product / service to develop!





Uptake

THE EUROPEAN COMMISSION

"Copernicus users' means (a) **Copernicus core users**: Union institutions & bodies, European, national, <u>regional or local authorities</u> entrusted with the definition, implementation, enforcement or monitoring of a public service or policy in the areas"

The European Commission, EU Regulation No.377/2014, Art.3

Innovative public procurement

Structural Funds

Alternative business models

Awareness raising campaigns

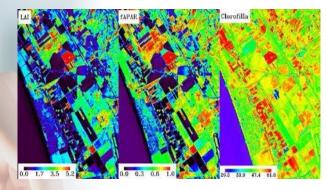




Value of Interregional Collaborations

User Uptake

Interregional Collaborations can be effective to bring the process from





from satellite imagery

for public administrations

and motivate more administrations to actually use it even better





Although Copernicus entered stage of operability and SENTINEL-data is free and open available –

- ⇒ Use and understanding of the system is very diverse across Europe
- Very different levels of maturity when it comes to using Copernicus data
- ⇒ Different interests, profiles and framework conditions





Commonalities of European Regions-1

User Uptake

 Territorial challenges and natural assets, mountains, lakes, rivers, and coasts have no borders (Mediterranean Sea, Alps, Pyrenees, Danube, River Rhein, etc.)

- EU-regions manage joint territorial tasks (flood, snow, preservation flora & fauna) and need to broaden and improve Copernicus-uses
- EU-regions have to implement EU-Directives and EUenviromental legislation





Commonalities of European Regions 2

User Uptake

- Regional administrations face similar challenges when it comes to Copernicus-deployment
 - ⇒ Building of political will (mandate)
 - Establishing and raising awareness and understanding of benefits and added value of the system, capacity building, education, training, collecting convincing indicators
 - ⇒ Definition of profile and needs for Copernicus uses (Copernicus is global **but definition of needs is** regional/local)
 - ⇒ Assuring adaquate technical infrastructure
 - ⇒ Designing smart financing models





Why Interregional Collaborations? - 1

User Uptake

Experiences on NEREUS-platform (gained in projects, conferences, seminars, workshops, publications) showed that interregional collaborations are a vital tool to broaden and improve Copernicus uses:

⇒ critical mass,

- ⇒ knowledge and experience sharing,
- ⇒ pooling of resources, avoid duplication of efforts
- \Rightarrow collective problem-solving
- ⇒ collective experiencing benefits and added value





Why Interregional Collaboration? 🗉

User Uptake

- Groups of regions face similar territorial challenges and have common interests with respect to Copernicus-uses e.g.:
 - South European regions: Forest fire
 - Maritime regions: Evolution of coasts, jelly fish monitoring
 - Riparian regions: Flood management





⇒ Copernicus is a common good ⇒ Let's make it a collective experience reaping the benefits for Europe's citizen and territories





Thank you for your attention

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