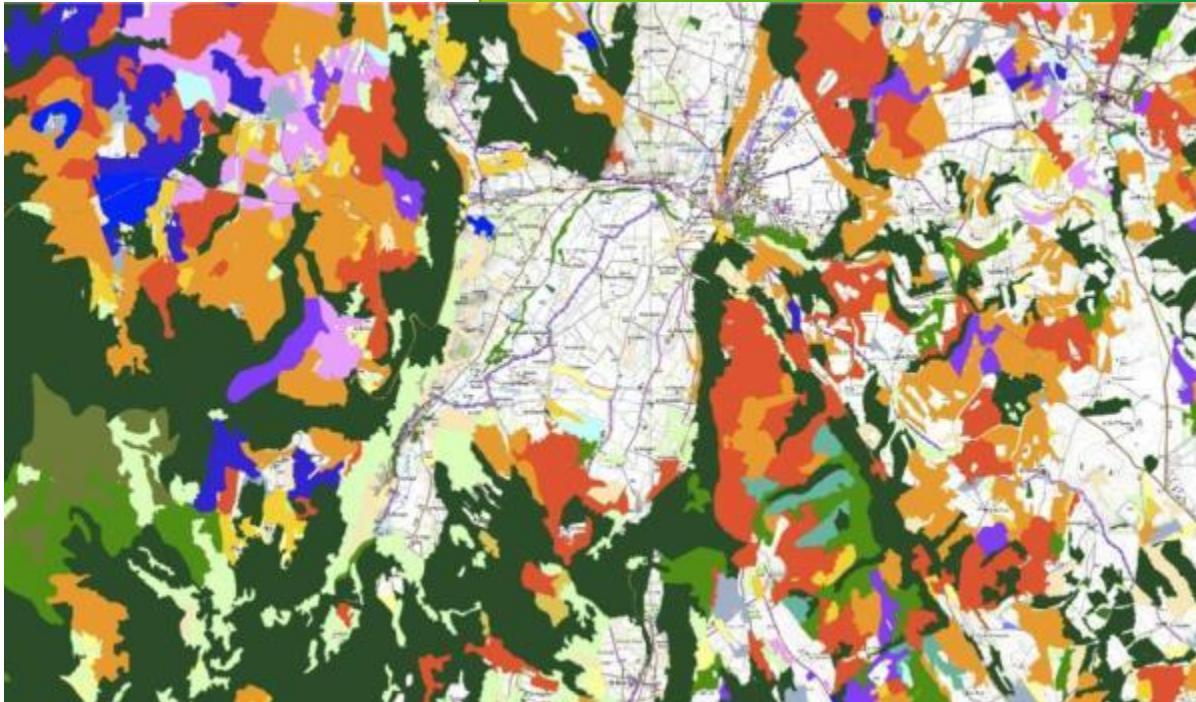


ADVOCATE NMCAs
RELEVANCE IN
COPERNICUS TO YOUR
NATIONAL
GOVERNMENT



© IGN

F. Chirié IGNF

PLAN

- What dynamics in Europe ?
- What impact on NMCAs?
- What should EG & NMCAs do to position themselves in this dynamics and influence it?
- What EG & NMCAs already do in Europe?



1

WHAT DYNAMICS IN
EUROPE ?

THE IMPORTANCE GIVEN BY EUROPEAN INSTITUTIONS TO GEOSPATIAL INFORMATION

Copernicus Programme

- European Union's Earth Observation Programme, looking at our planet and its environment
- Aim: meeting **needs for geospatial information** from **EU public policies** (climate, environment e.g. water, risk management, agriculture, etc.)
- Offers information services based on **satellite data** and (non-space) **in situ data**
- Budget > 600 M€ per year

THE IMPORTANCE GIVEN BY EUROPEAN INSTITUTIONS TO GEOSPATIAL INFORMATION (CONT.)

Copernicus Programme (cont.)

- Produces more and more detailed geospatial data
 - Since 2015: Ortho-imagery VHR 50 cm resolution Pan-European coverage
 - Project 2018: Pan-European DEM 10 metres resolution
 - Project 2018: Large scale land cover and land use data (CLC2G)



IGN Orthoimagery



Copernicus Orthoimagery

In medium term: Geospatial information for transports

- Autonomous vehicles - Services offered by Galileo

COPERNICUS DIVERGING FROM NMCA

- NMCA focusing on national issues
 - 📍 European institutions begin to seek pan-European data
 - 📍 European impact on NMCA will increase
- Copernicus most often not integrating NMCA reference data
 - 📍 Preferred option:
 - ITT to industry
 - Start from scratch
 - Copernicus Production predominantly procured to Industry

COPERNICUS DIVERGING FROM NMCA^S (cont.)

- Copernicus **geospatial data redundant** with NMCA^S reference data
- Copernicus **image acquisition Programme not coordinated** with those from Member States
- No action **complementarity**, no effort sharing
- No **consistency** between respective reference data





2

WHAT IMPACT ON
NMCAs?

IMPACT ON NATIONAL GEOSPATIAL PROGRAMMES

Member States are **funding** the collection of geospatial information **twice**

- European Geospatial Programmes + National Geospatial Programmes

European Geospatial Programmes more and more demanding and costly

- E.g. CorineLandCover: budget doubled for European integral funding
- European Geospatial Programmes have the means to be autonomous

Economic Constraints → Member States will have to choose

- Align themselves with European Geospatial Programmes?
- Remove National Geospatial Programmes?



3

WHAT SHOULD EG &
NMCAs DO TO
POSITION
THEMSELVES IN
THIS DYNAMICS AND
INFLUENCE IT?

WHAT TO DO?

Vision with 3 levels to be a **credible actor**

- Convergence of NMCAs
- European level
- National level

WHAT TO DO? CONVERGENCE OF NMCA

Interoperability, harmonisation, coherence

Core Reference Data

Next Copernicus European DEM 10 metres

ELS Platform

INSPIRE

UNGGIM Europe Core Data

WHAT TO DO? EUROPEAN LEVEL

EG spokesman, ambassador

→ Unique voice to dialogue with EU Institutions

EuroGeographics has direct contacts

with DG Grow, EEA, Parliament

However, EuroGeographics has no formal voice

The Commission does not have to listen to EuroGeographics

Commission must listen to MS

WHAT TO DO? NATIONAL LEVEL

EG positions cannot succeed without MS support in Council

MS support can only be triggered by NMCAs liaising with national Representatives

Need to encourage national representatives to:

- 📍 Support the use of MS reference data in Copernicus
- 📍 Advocate better cooperation and complementarity between Copernicus and NMCAs

Concerns addressing the organisational and national interest

NMCAs focusing on national issues while European institutions seek pan-European data

Member states are funding the collection of geospatial information twice

→ Essential: NMCAs communicate with their national Representatives to express their concerns

WHAT TO DO? NATIONAL LEVEL (CONT.)

NMCA liaising with national Reps: fully inline with NMCA missions

NMCAs missions: supporting their respective governments in the matter of geospatial information for public policies

National representatives in Copernicus are keen to be supported by national competent public agencies such as NMCAs



4

WHAT EG & NMCAS
ALREADY DO IN
EUROPE?

EUROGEOGRAPHICS & MEMBERS OPERATIONAL ACTIONS

Pan-European Products at small and medium scale

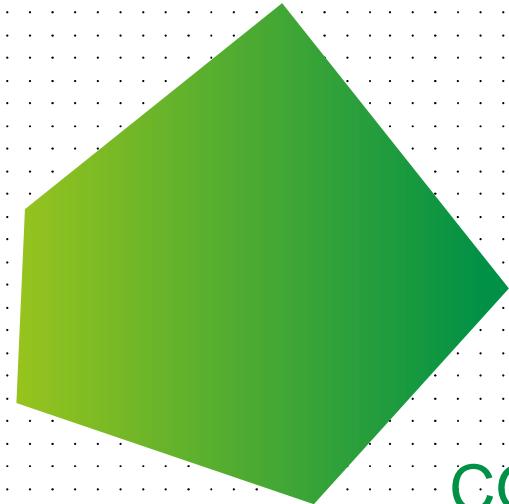
- Edge-matched at boundaries, harmonised content
- Minimal: scale does not match with public policy stakes targeted by Copernicus

ELS Platform

- Unique access point
- Edge-matched at boundaries
- Minimal: no content harmonisation + uncomplete coverage

→ Need to setup Large-scale European Core Data

→ Need to increase European coverage



CONCLUSION

CONCLUSION: WHAT TO DO?

Strategic choice: pay attention to European context

- Be aware of the full range of **impacts that Copernicus may have on NMCAs**
- Understand both risks and opportunities presented by Copernicus

Reinforce operational actions connected to EuroGeographics to have an impact at European level

- “Deliver or die” → demonstrate EG & NMCAs capabilities to meet Copernicus requirements
- **Harmonising contents: Core Reference Data**
- ELS Platform

CONCLUSION: WHAT TO DO? (2) COPERNICUS

Find the proper positioning in Copernicus

- **Assistance and technical expertise**
 - 📍 Influence Copernicus towards convergence with national infrastructures
 - 📍 Upstream: contribute to Copernicus specifications
 - 📍 Downstream: validate Copernicus products
- **Reinforce complementarity** and linkage between NMCA large scale reference data and Copernicus large scale reference data

Influence Copernicus ongoing initiatives

- Production of CorineLandCover 2018
- European DEM
- VHR Orthoimagery

NMCAs communicate with their national Representatives in Copernicus

HOW TO FIND OUT YOUR REPRESENTATIVE IN THE COPERNICUS USER FORUM?

Register of Commission Expert Groups

<http://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.groupDetail&groupID=2584>



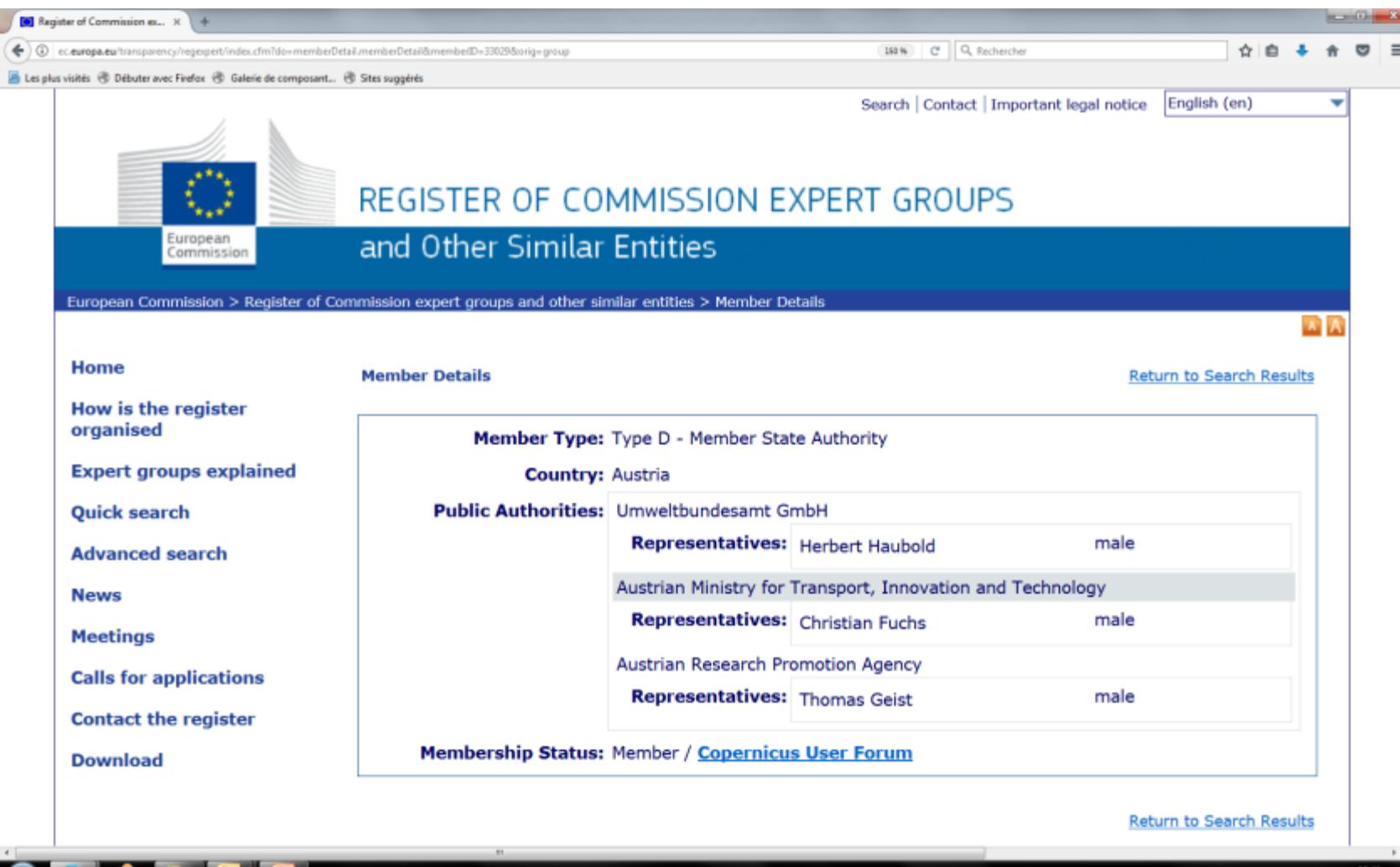
The screenshot shows a web browser displaying the 'REGISTER OF COMMISSION EXPERT GROUPS and Other Similar Entities' page. The page header includes the European Commission logo and a search bar. The main content area shows the 'Copernicus User Forum (X02584)' is an 'Active' group. A table lists member states and their public authorities, all marked as 'Member'. The table has columns for Country, Number of Public Authorities, and Membership Status.

Country	Number of Public Authorities	Membership Status
Austria	3	Member
Belgium	2	Member
Bulgaria	3	Member
Croatia	1	Member
Cyprus	1	Member
Czech Republic	3	Member
Denmark	2	Member
Estonia	2	Member
Finland	2	Member
France	1	Member
Germany	6	Member
Greece	2	Member

HOW TO FIND OUT YOUR REPRESENTATIVE IN THE COPERNICUS USER FORUM?

Register of Commission Expert Groups

<http://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.groupDetail&groupID=2584>



The screenshot shows a Firefox browser window displaying the 'Register of Commission expert groups and other similar entities' website. The page title is 'REGISTER OF COMMISSION EXPERT GROUPS and Other Similar Entities'. The main content area shows the following details for a member:

- Member Type:** Type D - Member State Authority
- Country:** Austria
- Public Authorities:** Umweltbundesamt GmbH
- Representatives:** Herbert Haubold (male)
- Representatives:** Austrian Ministry for Transport, Innovation and Technology (highlighted in grey)
- Representatives:** Christian Fuchs (male)
- Representatives:** Austrian Research Promotion Agency
- Representatives:** Thomas Geist (male)

At the bottom, it says **Membership Status:** Member / [Copernicus User Forum](#).

HOW TO FIND OUT YOUR REPRESENTATIVE IN THE COPERNICUS COMMITTEE?

MEMBER STATE	ORGANISATION
AUSTRIA	Österreichische Forschungsförderungsgesellschaft mbH - Agentur für Luft- und Raumfahrt FFG-ALR
	Federal Ministry of Transport, Innovation and Technology
BELGIUM	Belgian Federal Science Policy Office (BELSPO)
CROATIA	Permanent Representation in Brussels
CYPRUS	MOT - Dept. of Electronic Comunications
CZECH REPUBLIC	Ministry of the Environment
DENMARK	Danish Agency for Science, Technology and Innovation SDFE
FINLAND	Finnish Meteorological Institute
FRANCE	Ministère de l'Enseignement Supérieur & Recherche
	Ministère de l'Ecologie, du Développement durable & de l'Energie
	CNES
GERMANY	Ministry of Transport and Digital Infrastructure, BMVI
	DLR - Deutsches Zentrum für Luft- und Raumfahrt
IRELAND	Maynooth University
ITALY	MIUR - Ministry for Education Universities and Research
	ISPRA
	ASI (Italian Space Agency)
	Presidency of Council of Ministers
LITHUANIA	Permanent Representation of Lithuania to the EU, Brussels
MALTA	Malta Planning Authority
NL	NL Space Centre Ministry of Economic Affairs
NORWAY	Norwegian Space Centre
	Ministry of Climate and Environment
PORTUGAL	FCT-Foundation for Science and Technology
ROMANIA	Romanian Space Agency
SLOVAKIA	Ministry of Environment
SPAIN	Ministry of Economy, Industry and Competitiveness CDTI (Centro para Desarrollo Industrial)
SWEDEN	Swedish National Space Board
UNITED KINGDOM	DEFRA
	UK Space Agency

WHAT DO YOU NEED FROM US TO SUPPORT YOU TO ENGAGE WITH YOUR REP?

Practical Documents?

Letter template?

Information sheet?

Else?

THANK YOU FOR YOUR ATTENTION