

COPERNICUS REFERENCE DATA

SPANISH & FRENCH PROPOSAL FOR COORDINATED ACTIONS WITH MEMBER STATES

EUROGEOGRAPHICS POLICY KNOWLEDGE EXCHANGE NETWORK

16 MAY 2016, LEUVEN

FRANÇOIS CHIRIÉ - IGN FRANCE

CURRENT SITUATION

■ COPERNICUS REFERENCE DATA

- Duplicate, coexist and compete with national reference data
- EU-DEM and EU-HYDRO
- Copernicus Ortho-imagery
 - Covers whole physical Europe with 50 cm resolution, from VHR satellites images
 - High budget: 50 M€ budget over Europe i.e. 10 €/km²
 - Duplicates Ortho-imagery of NMCAAs

■ SEVERE ISSUES ABOUT SUSTAINABILITY

- Both Copernicus reference data and national reference data
- Role of NMCAAs?

CURRENT SITUATION (CONT.)

- COPENICUS REFERENCE DATA **INCONSISTENT WITH NATIONAL REFERENCE DATA**
 - National users have developed their own applications based on national reference data
 - Copernicus reference data (and Copernicus services based on Copernicus reference data) are not consistent with national users applications
 - This creates **difficulties for national users to use Copernicus services and downstream applications** relying on Copernicus services
- **REQUEST FROM EUROPEAN COMMISSION TO SPAIN AND FRANCE TO DRAFT A PROPOSAL**
 - Request made by Commission at Copernicus User Forum 19 April 2016
 - Deadline 1 May 2016

PROPOSED PRINCIPLE FOR COOPERATION BETWEEN COPERNICUS AND MS IN REFERENCE DATA

■ NEED FROM COPERNICUS SERVICES FOR PAN-EUROPEAN **HOMOGENEITY**

- Main justification for the current centralised approach
- But homogeneity can be achieved also in cooperation with MS
- Provided that they comply with final specifications

■ TWO ORGANIZATIONAL WAYS FOR GENERATING COPERNICUS SERVICES

- For **MS volunteering** to provide national reference data meeting Copernicus requirements,
Copernicus reference data would be consistent with national reference data
- For **MS not volunteering** to provide national reference data,
Copernicus reference data covering their territories
would be produced centrally by the Copernicus Programme

■ COORDINATION BETWEEN **ELF AND CORDA**

- National reference data compliant with Copernicus specifications would be accessible both through the ELF Platform and the CORDA access node

PROPOSED APPROACH FOR COORDINATING COPERNICUS AND MS ACTIONS IN REFERENCE DATA

- SETTING A **CONVERGENCE MECHANISM**
 - towards consistency between European and national reference data, at least for voluntary Member States
- COPERNICUS REFERENCE DATA SPECIFICATIONS
 - have to be determined
- MEMBER STATES HAVE TO BE ENCOURAGED
 - to supply reference data compliant with such Copernicus specifications

PROPOSED METHODOLOGY

■ BUILD A **TASK FORCE**

- composed of experts from EEA, voluntary MS, and other relevant experts

■ **SET DETAILED SPECIFICATIONS OF HOMOGENEOUS REFERENCE DATA** MEETING THE REQUIREMENTS FROM COPERNICUS SERVICES

- UN-GGIM: Europe WGA methodology
 - Analyse the requirements from Copernicus services
 - Select appropriate data themes, feature types and attributes from Inspire
 - Define quality requirements going farther than current Inspire specifications, to enable data homogeneity between MS
- ELF issues
 - Address issues related to generalisation methods to go from national data to Copernicus data while ensuring homogeneity and consistency
 - Address issues related to edge-matching national data and ensuring consistency at national boundaries

PROPOSED METHODOLOGY (CONT.)

■ IN A SECOND STEP, DISCUSS

- a **coordinated bottom-up production process**
- a possible financial support for producing the data by derivation from national data and for supplying it to Copernicus

■ PROPOSED TIMESCALE

- Achieve consistency between European and national reference data in 2020:
 - Task Force working in 2016 and 2017
 - Proof of Concept (some voluntary MS): 2017-2018
 - Implementation (all voluntary MS): 2018 -2019

■ FINANCIAL SUPPORT SUGGESTED FROM COPERNICUS

- Coordinate the Task Force
- Support the Task Force meetings
- Support implementing the Proof of Concept

YOUR SUPPORT IS SOLICITED

■ VOTE OF COPERNICUS USER FORUM

- Spanish & French proposal will be submitted to vote on 6 September
- **At the moment, only two countries support → risk of rejection**

■ **SUPPORT OF YOUR COUNTRY IS KINDLY SOLICITED**

- Could you please meet your national representative in the Copernicus user Forum?
- Explain issues relates to Copernicus reference data:
 - duplication, inconsistency with national reference data
 - difficulties for national users to use Copernicus services
- Suggest her/him to vote in favour of the proposal

LIST OF USER FORUM PARTICIPANTS		
Belgium	VOET Jan Hendrik	NFP-Belgium (EEA-EIONET) Belgian Interregional Environment Agency (IRCEL-CELINE)
Germany	<u>FUCHS Tobias</u>	German Meteorological Service, DWD
	<u>LEGE Thomas</u>	BGR, Federal Institute for Geosciences and Natural Resources
	STAUDENRAUSCH Helmut	DLR
Italy	CANDELA Laura	Italian Space Agency
	<u>DE BERNARDINIS Bernardo</u>	ISPRA
	TARAMELLI Andrea	ISPRA
Latvia	MITROFANOVS Ingus	Latvian University
Netherlands	VAN LOON Jasper	Netherlands Space Office
Norway	STROMME Anja	Norwegian Space Centre
Poland	DABROWSKA-ZIELINSKA Katarzyna	Institute of Geodesy and Cartography
Romania	CRACIUNESCU Vasile	Meteo Romania
United Kingdom	STYLES Jon	Department for Environment, Food and Rural Affairs (DEFRA)

THANK YOU

- **YOUR POSSIBLE FEEDBACK WOULD BE MOST WELCOME**

- Your possible contacts with your national representative in the user forum
- It would help me to assess if we can win or lose the vote