

Copernicus User Forum on 6th February 2018

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Plan

- **CorineLandCover 2nd generation** and Reference Data
- Evaluation for the Evolution of the **Copernicus DEM**
- Study on integration of **aerial data** into Copernicus Emergency Management service workflow

CorineLandCover 2nd Generation and Reference Data

CorineLandCover 2nd generation and Reference Data

- CLC-Backbone Component
 - 1 ha resolution
 - More and more detailed, relevant for national users
 - Impact on NMCA's
- “Hard Bones”: roads, railways, rivers
 - Roads & railways: OSM or Member States Reference Data?
 - Incompatibility ODBL / Copernicus Full, free and open data policy?
- Important for NMCA's: contribute to the “**Core Reference Data**” new EuroGeographics product

Evaluation for the Evolution of the **Copernicus DEM**

Evaluation for the Evolution of the Copernicus DEM

1) Context

- ESA is performing a study to provide recommendations for the **evolution of the DEM**
 - To be used for the generation of Copernicus Space Component products and for Copernicus services
 - To collect the DEM requirements
 - To identify the different candidate DEMs available
 - To provide final conclusions and recommendations for the choice of the DEMs (by April 2018)

Evaluation for the Evolution of the Copernicus DEM

2) Current ESA view

- From the study, two type of needs are identified
 - For Sentinel-2 ortho-images:
 - a 30m horizontal sampling DEM with global coverage
 - For VHR ortho-images:
 - a 5-10m horizontal sampling DEM with EEA39 coverage
- ESA view
 - Global and EEA39 DEMs shall be spatially consistent over common geographical regions
 - **Only global DEMs derived from space data** allow to meet the requirements above
 - **Consistency with MS DEMs not considered**

Study on integration of **aerial data** into Copernicus **Emergency Management** service

Study on integration of aerial data into Copernicus Emergency Management service workflow

1) Context

- Copernicus ordered
 - Pilot and study on **integration of aerial data** into Copernicus Emergency Management service workflow
 - Contracted with CGR SPA
 - Pilot and study project on **integration of drone aerial data** into Copernicus Emergency Management
 - Contracted with Delair-tech
- Both studies were presented
 - to the Copernicus User Forum on 6th February 2018

Study on integration of aerial data into Copernicus Emergency Management service workflow

2) Analysis

- Good rationale: **More complementarity between Space data and In-Situ data**
 - Space data and In-Situ data complement and enrich one another
 - » Temporal monitoring easier with space data / In-situ more accurate
 - In-Situ data should have their place in Copernicus
- But in these two studies:
 - Complementarity between Copernicus activities and Member States is not considered
 - **However at this stage, these are just studies, not yet Copernicus operational activities**
 - The question of **respective advantages of different vectors** is not addressed
 - No matrix indicating respective advantages depending on parameters:
 - » nature of the crisis, surface area, cloud ceiling, flight altitude, wind

Conclusion

- Issue of **Complementarity vs. Duplication** between Copernicus and NMCAAs
- Important for NMCAAs:
 - Mobilising national representatives in Copernicus Committee and Copernicus user Forum
 - Contributing to the EuroGeographics “Core Reference Data”

Thank you for your attention