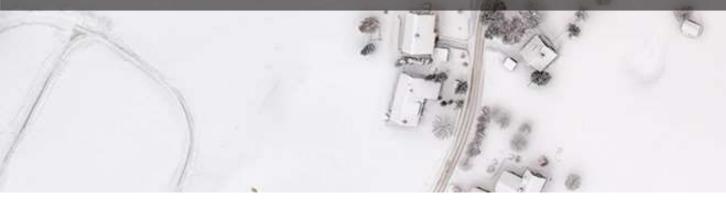


EuroGeographics - Update

Mick Cory Joint UN-GGIM: Europe – ESS – UNECE webinar 27 March 2020

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Content of Presentation

- 1. Changing Times
- 2. Our strategic response to a changed environment
- 3. Data access and integration
 - Current data integration work
 - Our plans to enhance it
- 4. Some challenges going forward

1. Changing Times

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Definition:

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".... Is data that is provided by or on behalf of a public body (or authority) which has an official mandate to provide and sustain it, that is based on a set of criteria to ensure known quality, and that is required to be used and reused by the public sector and society as a whole"

Characteristics:

Dependent on Institutional, legal and cultural aspects

- Agreed rules of creation, and use
- Legal aspect
- Accountability
- Quality Management
- Certification
- Traceable
- Maintained



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Why is it important?

National Importance:

- Description of national sovereign territory:
- Official, de-facto statement of what is on-theground, for the purposes of:
 - Legal, fiscal, security or other public administrative purposes and decision
- Governments decide it is in the 'public interest' to have such data
- Maps and other geospatial data recognised for their importance beyond cartography
- Reference layer for national Spatial Data Infrastructure.

Global Importance:

UN resolution on global geodetic reference frame

(A/RES/69/266) February 2015

- UN GGIM Fundamental data themes
- Support for UN Sustainable Development Goals
- In Europe we collaborate to integrate international pan-European datasets
- Increasingly open (and free of charge) access to official datasets

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Things have changed

New entrants

Over the last 10 years the been an explosion of i entrants into the glob geospatial 'market'

Bargaining power of users

European users are free to obtain data from any source;

No legal / and limited policy ational data at European GVG (although Need for authoritative

Drive to open data

Data PSI Directives

INSPIRE issues

Data coverage

Diverse policy, legal, financial landscape – multiple agreements required



Substitute Products

New entrants have successfully Continues:
 Copen Data and Public that are proxies for authoritative data,

> Eurostat has aspirations / plans to compile pan-European datasets itself, from member state data, and potentially other sources.



Pan-European geospatial data integration

Pan-European data production for European Commission European Location framework (ELF) Project Open European Location Service (Open ELS) Project Core Reference Data Project

Broader, strategic lessons learned

Legal

ISSI/

8

- Multiple legal jurisdictions
- Centralised licensing framework vs national requirements
- Multiple agreements required
- Impact of Open
 Data Psi Directive:

Policy Different National data policy regimes Different interpretations of privacy Government data policy iffers (eg Open Data)

Financial

• Sustainability

Technical

urogeographics

- Data model interpretation
- Complex data schema
- Client software issues
- Version control
- Infrastructure (Centralised vs distributed)
- Data Content!



2020 Policy developments

United Nations

European Strategy for Data

European Green deal

IGIF - Part 2: Implementation Guide. Global consultation underway. Directive (EU) 2019/1024 on open data and the re-use of public See http://ggim.un.org/igif.

The draft of the Framework on Effective Land Administration (FELA) http://ggim.un.org/UN-EG-LAM/ consultation recently concluded.

Euture Trends document

European Union

New European Parliament and Commission

sector information was adopted in June 2019, HVD research then consultation.

Legal INSPIRE roadmap is coming to its end - review of Inspire in 2020 or 2021?

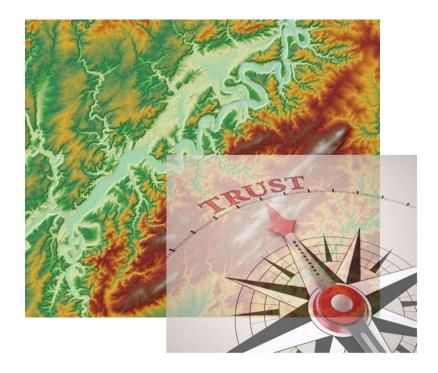
EUR 16-billion space programme for 2021-2027 with the GSA developing into the European Agency for the Space Programme (EUSPA)

EC bodies (Eurostat, EEA) plans to compile their own pan-European data



Issues affecting our business

- There have been a number of recent developments in our operational environment
- Our **financial situation has changed** income from 'sales' down €345,000 from 2018 = 21.1% of costs
- Income now does not cover costs of data integration.
- These changes have occurred since our strategy was agreed in October 2017
- These changes required a **rethink of our strategy**





2. Our strategic response to a changed environment





Conclusions from 'rethink' of our strategy

For now changes are proposed to be contained within existing strategy – moving away from sales to representation and facilitating access

- 1. moving away from 'selling data'
- 2. moving towards 'promoting integration' of data.
- 3. value proposition more clear, work in partnership in the public interest



Connecting you to official data from the National Mapping, Cadastral and Land Registry Authorities of Europe

- An independent international not-for-profit organisation
- Members are the official national sources of geospatial data
- Committed to working in partnership to achieve what we believe is in the public interest: The widespread integration and use of our members authoritative geospatial data and infrastructure across the European and international system
- Integrating members' data into infrastructure and tools will maximise its benefits, particularly in delivering the Open Data PSI Directive, which identifies geospatial data as one of five 'high- value' datasets
- We participate in, and make appropriate, **positive contributions** to areas where we, and our members, have a track record, significant expertise and legitimate interest
- There is a need for **political or policy home for geospatial information** in Europe
- There should be an **agreed geospatial policy** implemented horizontally across the EU Institutions



3. Data access and integration





Harmonised European geospatial data from official national sources

- a successful track record of delivering pan- European geospatial datasets and projects which can be used to avoid duplication of effort and promote complementarity to international geospatial activities
- EuroGeographics offers pan-European datasets produced using official geospatial data from National Mapping, Cadastral and Land Registry Authorities.
- The data, including 1: 1 million scale open data, is **updated annually and harmonised** to standard specifications, so users can be confident that the information provided is consistent, comparable and easily shared regardless of its national source.
- Our **production system is unique** internationally, and a particularly important example of international collaboration in the geospatial area.
- We aim to develop the data further by including for example a cadastral index map and to make it open, if sustainable funding can be secured



Our current data access and integration work



Data Access - current website







Coverage

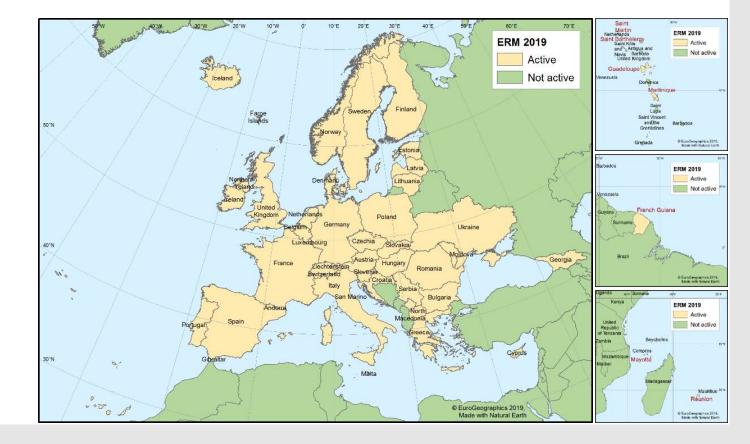
51 countries* from 36 data producers

French oversea territories and

Ukraine data included for the 1st time

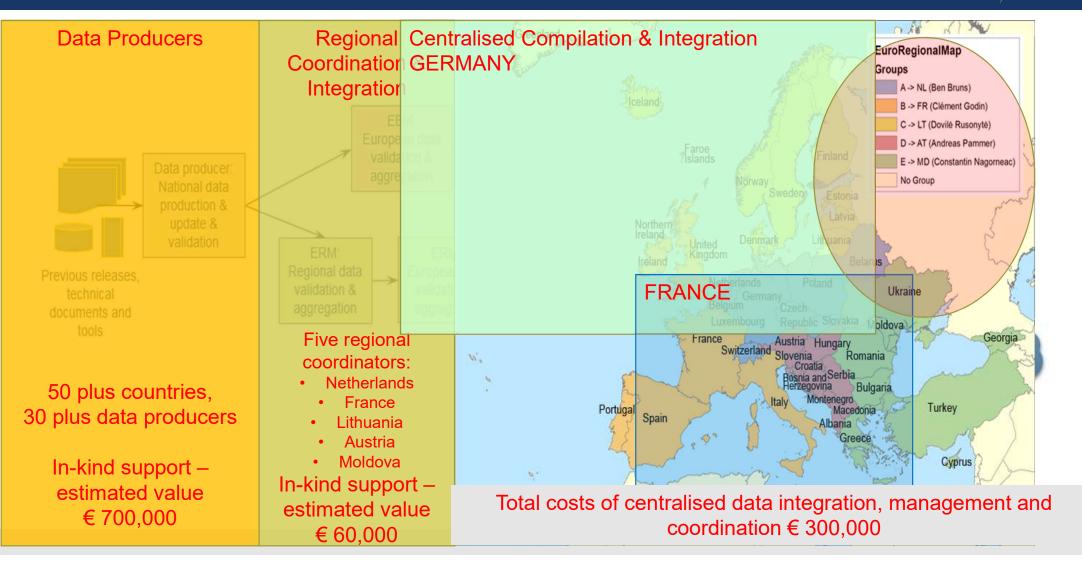
Issues in some countries remain – technical, institutional, political, financial

* According to ISO country code



19 Data Integration Workflow EBM ERM







Limitations

- CD ROM / DVD
- Limited online access
- Charging model
- Change only update
- Need for higher resolution data

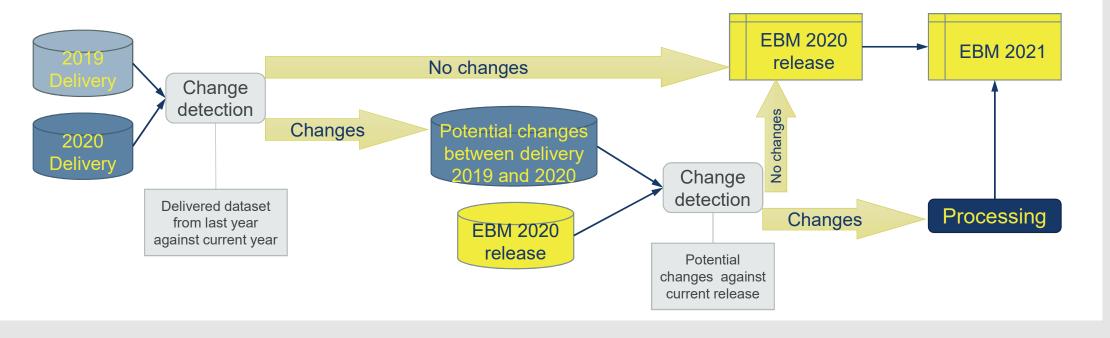


> our plans to enhance it



EBM Production in 2020

New production workflow at BKG to validate Data Producers data / change detection \rightarrow Support further processing





Improve current data services

- In addition to providing:
 - Change only updates for EBM, and improved quality validation
 - An improved online catalogue, allowing users to find the availability of authoritative national data directly from our members
 - Making available online case studies demonstrating value of specific data themes with links to member national offerings.
- We will:
 - Provide better ways to find and access existing pan-European datasets -EuroGlobalMap, EuroRegionalMap, EuroBoundaryMap, Regional Gazetteer Service and adding an image service for Europe; through on-line services
 - This is a shared objective with EU policy objectives, therefore we have applied for EU funds to assist:

24 CEF Bid



Funding the first step

CEF Bid for € 717,839

Directly supports and delivers in EU policy objectives by:

- Making more data available by making data previously licenced for a fee, free of charge, for use and reuse;
- Ensuring a level-playing field for all re-users, by applying a consistent open data policy and open data licence;
- Improving **re-usability of data from a technical perspective** by simplifying access through national and European portals, and by the provision of APIs;
- Reduces costs of data to increase its re-use, and removes integration costs from users.

But :

- INEA requires us to demonstrate sustainability of the proposed Action without further EU funding!
- This requires funding for current data integration workflow (€1.1 million per year), plus centralised IT infrastructure (€50,000 per year).



Incremental development

- Demonstration services for an enhanced portfolio to encompass fundamental data themes, such as more imagery, cadastral index map, buildings and addresses.
- Full availability of enhanced datasets will only be undertaken if funds are available to cover costs of compilation and integration,
- Enhancement of our data will only take place where demand is identified, supply of data assured and funding is secured
- EuroGeographics have costed these activities, but demand is unclear.



4. Some challenges going forward





Securing data supply and sustainable funding

- Our members have a particular responsibility within their national systems for provision of data to meet national requirements it is essential that members also meet international requirements for their data.
- Requires more than just a collaborative effort –
- In the longer-term sustainable funding for data integration and maintenance is required,
- We believe it is in the EU's interests to support this work.
- The only international entity with the political, financial and legislative ability to secure the data supply and secure sustainable funding is the EU.
- Therefore, this work will need to be funded in a manner that the EU finds agreeable given that the current product licensing approach appears not to be acceptable.

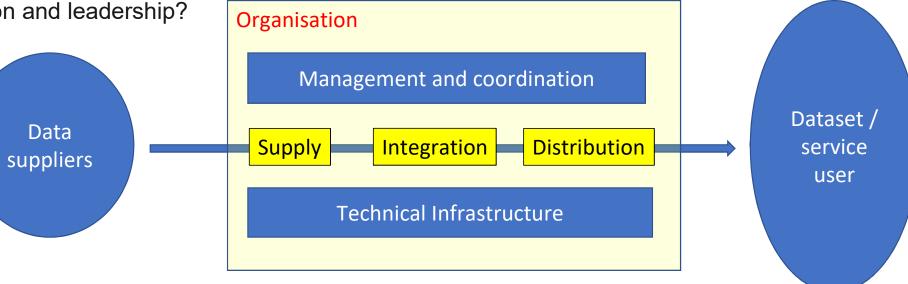


Sustainability

Who pays?

Who manages / coordinates?

Organisation and leadership?





In Conclusion



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Leadership needed! A coherent approach to European geospatial policy?

- INSPIRE is now 14 years old
- Things have moved on; technically and politically
- New entrants, new data; AI, big data, earth observations, new technologies
- UN GGIM policy framework global sustainable development goals
- Integrated geospatial implementation framework
 - A European Strategy for Data
 - A vision for a common European data space
 - A strategy, addressing problems of fragmentation, through
 - <u>Governance</u>, <u>Infrastructure</u>, skills and <u>common data</u> <u>spaces</u>
 - A commitment to review INSPIRE
 - Value of data is in its use and reuse

• Who will take this lead in Europe?



Connecting you to maps, geospatial and land information for Europe