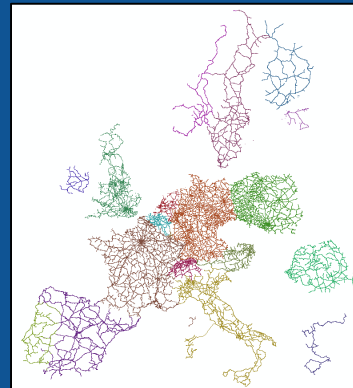


EC action to better use official Member State's data for pan-European data for the commission



Julien Gaffuri – Eurostat GISCO

Joint UN-GGIM: Europe – ESS – UNECE meeting on the integration of statistical and geospatial information

Luxembourg, 29/03/2019

GISCO role

- *Answer needs of the EC+ for geographical information at EU/national/regional levels with:*
 - ***Provision of GIS reference data, services and software to support EC+ GIS analysts***
 - ***Support to cartographic and spatial analysis activities***
 - ***Coordination of commission-wide GI activities***
 - ***Stimulation of the use of GIS to support commission activities***
 - ***Support to Eurostat activities on the integration of statistical and geographical information***

Objective

- *Fill the gap for data need on various themes for large scale data*
- *Based on MS data sources*
 - ***No restriction to INSPIRE format/services***
- *For EC+ internal use*

- *COGI 4/10/2018 decision: Eurostat-GISCO action on Member states' data combination for pan-European data for the commission*

3. Baza danych obiektów ogólnogeograficznych (BDOO)

zgodna z wymaganiami rozporządzenia INSPIRE z dnia 17 listopada 2011 r. w sprawie bazy danych obiektów topograficznych oraz bazy danych obiektów ogólnogeograficznych a także standardowych opracowań kartograficznych. Baza BDOO została utworzona dla obszaru całego kraju w wyniku generalizacji bazy danych obiektów topograficznych (BDOT10k), z wykorzystaniem narzędzia FME (opogramowanie typu ETL).

Nazwa	Rozmiar	Rozszerzenie	Data modyfikacji
PL.PZGK.201.02 - woj. dolnośląskie	12,9 MB	gml	2016-07-13
PL.PZGK.201.04 - woj. kujawsko-pomorskie	9,5 MB	gml	2016-07-08
PL.PZGK.201.06 - woj. lubelskie	12,1 MB	gml	2016-07-08
PL.PZGK.201.08 - woj. lubuskie	6,9 MB	gml	2016-07-08
PL.PZGK.201.10 - woj. łódzkie	12,7 MB	gml	2016-07-08
PL.PZGK.201.12 - woj. małopolskie	13,9 MB	gml	2015-09-13
PL.PZGK.201.14 - woj. mazowieckie	22,2 MB	gml	2016-07-08
PL.PZGK.201.16 - woj. opolskie	5,8 MB	gml	2015-09-13
PL.PZGK.201.18 - woj. podkarpackie	12,9 MB	gml	2016-07-08
PL.PZGK.201.20 - woj. podlaskie	10,3 MB	gml	2016-07-08
PL.PZGK.201.22 - woj. pomorskie	9,3 MB	gml	2016-07-08
PL.PZGK.201.24 - woj. śląskie			
PL.PZGK.201.26 - woj. świętokrzyskie			
PL.PZGK.201.28 - woj. warmińsko-mazurskie			
PL.PZGK.201.30 - woj. wielkopolskie			
PL.PZGK.201.32 - woj. zachodniopomorskie			

Aktualności

- 21. Piknik Naukowy
- Mobul zdyjcykicznych w Panalu PZGKiK
- 16 listopada 2016 roku po raz drugi odbył się w CODGiK dzień otwarty pod hasłem GISday for Kids 2016

Komunikaty

- Komunikat
- Dzieli wolny
- CODGiK w likwidacji

Geoportal CÚZK
Access to map products and services

Services: Cadastre, RÚIAN, ZABAGED® - planimetry, ZABAGED® - altimetry, Orthophoto, Maps, Geospatial control, Geonames, ASP, Arch

Current location: Data sets

Available datasets:

- Cadastre of Real Estate
- RÚIAN
- ZABAGED® - planimetric components
- ZABAGED® - altimetry
- Mental Base of Geographic Data in Republic
- Maps
- Geonames
- Survey photos

OS Open Map - Local

Data type: Vector
Supply format: ESRI® Shape
Version: 10/2018

Selecting National Grid Reference squares

Using the map on the right, or a full size version, identify which square(s) you want to download. Select or deselect squares by clicking on the map on the right.

To manually select or deselect multiple squares from the two letter reference list, press and hold the CTRL key (Windows) or the Command key (OS-X) while selecting from the list.

Note: this is the vector version of OS Open Map - Local. Download sizes vary by area. It's also available in raster data format.

OS Open Map - Local is a street-level digital map that clearly shows roads, road names, electric car charging points and major public buildings.

To view the area covered by each map tile, see our [tile locator map](#).

To help you display this product to best effect, we offer [free cartographic stylesheets](#).

Great Britain	DVD	Download
[ESRI® Shape: 2.2 GB] [GML 3: 2.1 GB]	N/A	<input type="checkbox"/>
National Grid Reference squares [6 KB - 200 MB]	N/A	<input type="checkbox"/>

Dienstleistungscentrum BKG

Open Data - Freie Daten und Dienste des BKG

Die hier angebotenen Geodaten stehen unter verschiedenen Lizenzen gedöndeltungsfrei zum Download und zur Online-Nutzung zur Verfügung.

Im Downloadbereich finden Sie typische Produktspezifikationen (Georeferenzierungen, Formate), die von unseren Nutzern öberwiegend nachgefragt werden. Über unsere [Spezial-Store](#) können Sie weitere Produktvarianten beziehen. Die Mitarbeiterinnen und Mitarbeiter des Dienstleistungscentrums beraten Sie gern.

Die angebotenen Darstellungsdienste basieren auf den internationalen Standards des [Open Geospatial Consortium](#) (OGC). Download- und Darstellungsdienste erfüllen die [INSPIRE](#)-Anforderungen.

Weltweite Webkarten

Digitale Landschaftsmodelle (DLM)

Digitale Landschaftsmodelle beschreiben die topographischen Objekte der Landschaft und das Relief der Erdoberfläche im Vektorformat. Die Objekte werden einer bestimmten Dölkertart zugeordnet und durch ihre räumliche Lage, ihren geometrischen Typ, beschreibende Attribute und Beziehungen zu anderen Objekten definiert.

ge.admin.ch - das Geoportal des Bundes
ge.admin.ch - le géoportail fédéral

ÜBER GEO.ADMIN.CH A PROPOS DE GEO.ADMIN.CH

ge.admin.ch ist die Geoinformationsplattform der Schweizerischen Eidgenossenschaft innerhalb der Bundesverwaltung. Als Anwender können Sie hier direkt auf Geoinformationen, -daten, -diensten und Metadaten des Bundes zugreifen.

ge.admin.ch est la plateforme de géoinformation de la Confédération suisse au sein de l'Administration fédérale. En tant qu'utilisateur, vous pouvez directement accéder à des géoinformations, des géo données, des géoservices et des métadonnées de la Confédération ici.

DATENSATZ JEU DE DONNÉES

<http://map.geo.admin.ch/?layers=ch.bav.schienennetz>

Date	Time	Attr	Size	Compressed	Name
2017-12-20	09:07:12	...	6937422	6922126	ArctGIS
2017-12-20	09:07:22	...	6931067	6915785	ArctGIS
2017-12-20	10:14:44	...	1118027	993555	Descrpt
2017-12-21	10:50:16	...	448349	446361	Entrepf
2017-12-20	09:07:44	...	9840020	9837149	Inter11
2017-12-20	09:08:54	...	9824592	9821699	Inter11
2018-01-29	06:57:24	...	1131	497	Licence
2017-12-20	09:09:06	...	14886589	14802810	MapInfo
2017-12-20	09:09:16	...	14862316	14798556	MapInfo
2018-01-29	07:13:30	...	54405	6777	Metadat
2018-01-29	07:13:30	...	424258	421896	Metadat
2018-01-29	07:13:30	...	51560	6027	Metadat
2017-12-20	10:14:44	...	1039072	923854	TopoE11
2018-01-29	07:11:50	...	161063	147259	Nutzung
2017-12-20	08:41:50	...	143013	133927	Release
2017-12-20	08:41:26	...	144016	134663	Release
2017-12-21	10:50:06	...	446335	444582	Transpo

DOWNLOADPORTAL

DOWNLOAD PORTAL CLIENT

MY LIST CATALOGUE

PRIVATE / ACCESS ON DEMAND

OPEN YOUR BASKET / 1 ITEM(S)

FILES NGI-INSPIRE

open access x Inspire ✓
name dataset ngi-Inspire
author National Geographic Institute - Belgium
access type access on demand

contact us for more information

CLOSE OPEN YOUR BASKET

your requested file or folder was already selected
ngi-inspire

search deselect 1

ngi-inspire (2008)

Vectordata (2008)

Rechtsgund der Wohnungsbenützung
Stadt/Lin/Magistrat der Landeshauptstadt Linz, Stadtforsung
Informationen zum Rechtsgund der Wohnungen. Anmerkung: Erklärung

Suchbegriff: 22129 Einträge gefunden

Filter Anwenden Zurücksetzen

Kategorien

Eukétes

Ytynpocleos

sidhromoromika_diktio (WMS)
A WMS layer generated from sidhromoromika_diktio Eilthodas

sidhromoromika_diktio (WFS)
A WFS layer generated from sidhromoromika_diktio Eilthodas

Metaδoδoμéva

Katáσταθ active
Άδεια Creative Commons Attribution 3.0

KORTFORSYNINGEN
DOWNLOAD

Forside Geodataprodukter Feeds Vilkår og betingelser Min side Hjælp Om Kortforsyningen/Download

Kort10, vektor

1. Udtraksmetode 2. Format og koordinatsystem 3. Vælg område på kort

Færdige udtræk

Næste

Det er ikke længere muligt at bestille kort10, se nyheden om udfasing af kort10.

Kort10 kan sammensættes af følgende dataset: Geodanmark, Højdekurve, DAGI og Stednavne

Vejnavne også hentes fra AWS - download eller WFS-tjeneste eller kortforsyningens WMS-tjeneste forvaltning (lag navne_basis_kort).

Log ind
Brugernavn
Indst Brug
Kodeord *
Opret ny br
Log ind
Kurv
Kurven er t
Hvordan t
1. Vælg ud
Vælg først



Data Sets - Transport networks of Europe



Show: Downloadable Viewable

INSPIRE Geoportal Data Set Statistics

3220
Metadata records

108
Downloadable Data Sets

Select a COUNTRY

Austria 🗺️ 34 📄 0 🗨️ 29	Finland 🗺️ 127 📄 0 🗨️ 0	Latvia 🗺️ 26 📄 0 🗨️ 3	Portugal 🗺️ 20 📄 0 🗨️ 1
Belgium 🗺️ 14 📄 10 🗨️ 13	France 🗺️ 1554 📄 22 🗨️ 144	Liechtenstein 🗺️ 4 📄 1 🗨️ 1	Romania 🗺️ 5 📄 1 🗨️ 2
Bulgaria 🗺️ 1 📄 0 🗨️ 0	Germany 🗺️ 266 📄 38 🗨️ 77	Lithuania 🗺️ 5 📄 0 🗨️ 1	Slovakia 🗺️ 17 📄 0 🗨️ 1
Croatia 🗺️ 19 📄 1 🗨️ 1	Greece 🗺️ 0 📄 0 🗨️ 0	Luxembourg 🗺️ 8 📄 8 🗨️ 8	Slovenia 🗺️ 3 📄 1 🗨️ 1
Cyprus 🗺️ 2 📄 1 🗨️ 2	Hungary 🗺️ 9 📄 0 🗨️ 0	Malta 🗺️ 2 📄 2 🗨️ 2	Spain 🗺️ 3 📄 1 🗨️ 1
Czech Republic 🗺️ 8 📄 0 🗨️ 6	Iceland 🗺️ 8 📄 1 🗨️ 0	Netherlands 🗺️ 23 📄 11 🗨️ 16	Sweden 🗺️ 37 📄 0 🗨️ 17
Denmark 🗺️ 4 📄 3 🗨️ 3	Ireland 🗺️ 1 📄 0 🗨️ 0	Norway 🗺️ 14 📄 0 🗨️ 0	Switzerland 🗺️ 12 📄 0 🗨️ 0
Estonia 🗺️ 7 📄 3 🗨️ 3	Italy 🗺️ 794 📄 0 🗨️ 6	Poland 🗺️ 27 📄 2 🗨️ 4	United Kingdom 🗺️ 166 📄 2 🗨️ 1



INSPIRE GEOPORTAL

Enhancing access to European spatial data

European Commission > INSPIRE > Geoportals > INSPIRE Thematic Viewer

Home | Priority Data Sets Viewer | INSPIRE Thematic Viewer | Harvesting status | Find out more about

Data Sets - Transport networks of Europe



Show: Downloadable Viewable

INSPIRE Geoportals Data Set Statistics

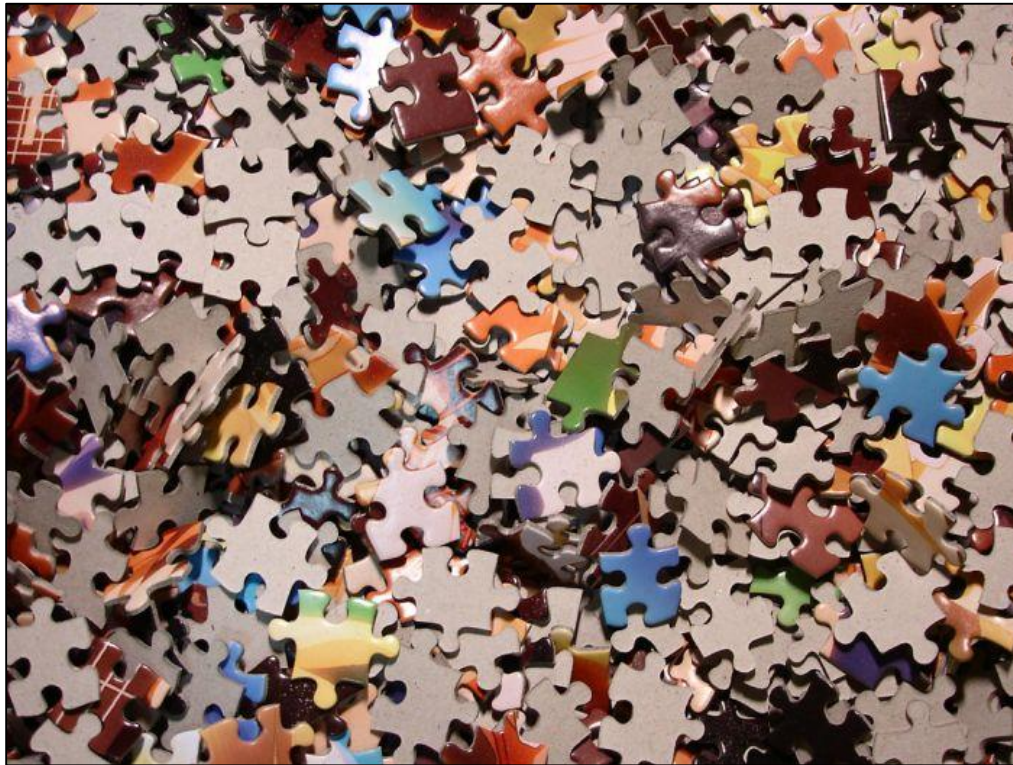
31 Metadata records

1 Downloadable Data Sets

Select a COUNTRY

Austria	34 0 29	Finland	127 0 0	Latvia	26 0 3	Portugal	20 0 1
Belgium	14 10 13	France	1554 22 144	Liechtenstein	4 1 1	Romania	5 1 2
Bulgaria		EU		1	1	1	
Croatia							
Cyprus							
Czech Republic	8 0 6	Iceland	8 1 0	Netherlands	23 11 16	Sweden	37 0 17
Denmark	4 3 3	Ireland	1 0 0	Norway	14 0 0	Switzerland	12 0 0
Estonia	7 3 3	Italy	794 0 6	Poland	27 2 4	United Kingdom	166 2 1

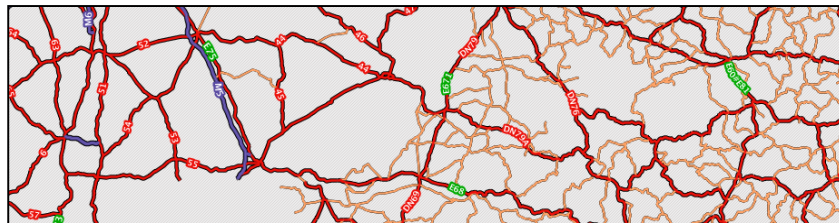
Main challenge



Need for pan-European datasets

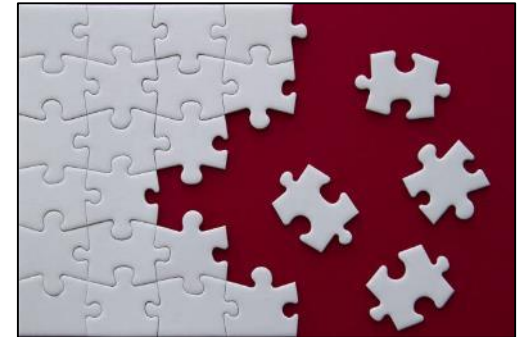


- *Need for central infrastructure*
- *Need for edge-matching*
- *Need for cross-country comparability*
« *spatial interoperability* »



Progressive approach

- *Step 1: MS data sources inventory*
- *Step 2: MS data retrieval*
- *Step 3: Initial data combination*
- *Step 4: Incremental update and maintenance*



Progressive approach

- *Step 1: MS data sources inventory*
Output: Data sources per MS and per theme
- *Step 2: MS data retrieval*
Output: Raw MS data
- *Step 3: Initial data combination*
Output: Pan-European datasets, by theme
- *Step 4: Incremental update and maintenance*
Output: Update processes

Step 1: MS data sources inventory

MS data sources inventory by theme

- Administrative units
- Adresses and postal codes zones
- Buildings and constructions
- Cadastral parcels
- Elevation
- Geographical names
- Hydrography.
- Land cover - land use
- Transport - Air
- Transport - Cable
- Transport - Energy
- Transport - Rail
- Transport - Road
- Transport - Telecommunication
- Transport - Water



AT
federal states - tirol https://www.data.gv.at/katalog/dataset/land-tirol_adressentirol
http://www.bev.gv.at/portal/page?_pageid=713,2601271&_dad=portal&_schema=PORTAL - all data available - licence (c) mention

BE
flanders: https://downloadagiv.blob.core.windows.net/crab-adressenlijst/Shapefile/CRAB_Adressenlijst_Shapefile.zip

BG

CH
Localities and postal codes: <https://opendata.swiss/fr/dataset/amtliches-ortschaftenverzeichnis-mit-postleitzahl-und-perimeter>
<https://opendata.swiss/fr/dataset/amtliches-ortschaftenverzeichnis-mit-postleitzahl-und-perimeter/resource/863f3fc7-8dbe-44dd-bc56-8>

CY

CZ
See: <http://services.cuzk.cz/gml/inspire/ad/>
INSPIRE WFS: <http://services.cuzk.cz/wfs/inspire-ad-wfs.asp> It does not seem active unfortunately.

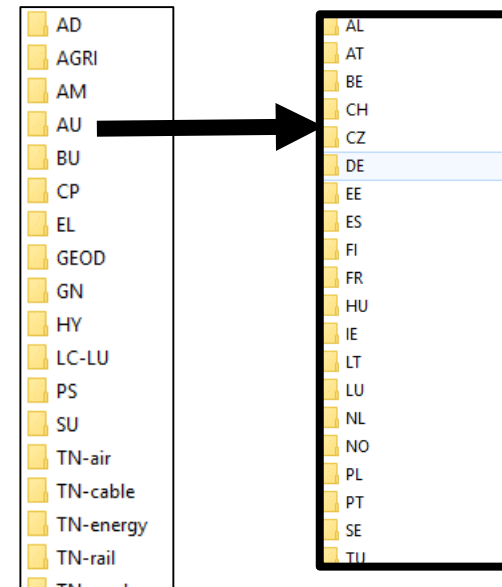
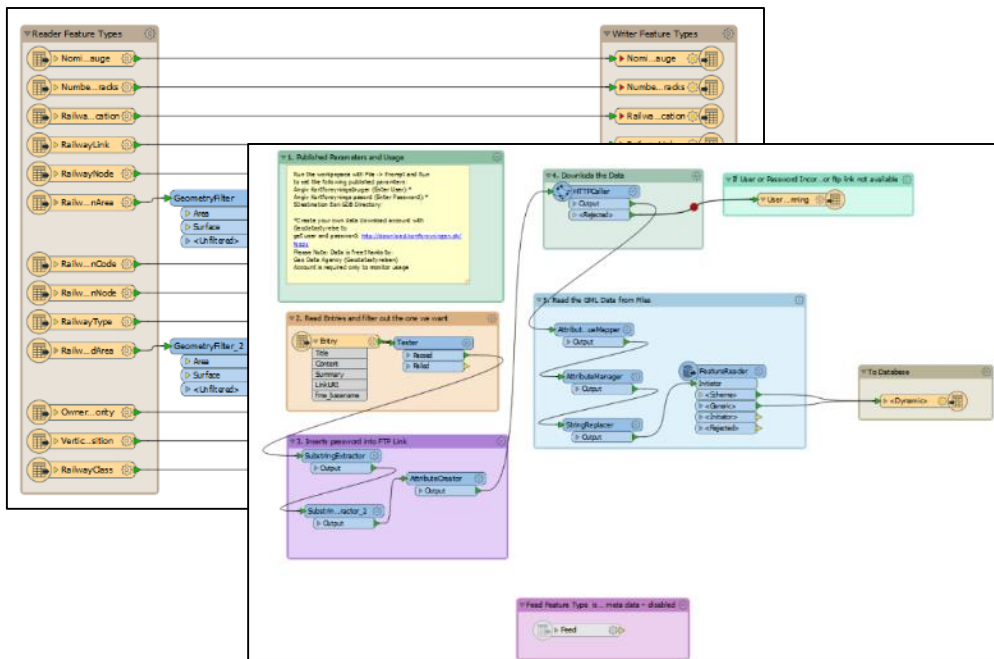
DE

DK
<http://dawa.aws.dk/adresser?format=csv>

<https://webgate.ec.europa.eu/fpfis/wikis/display/GISCO/MS+data+sources+inventory+by+theme>

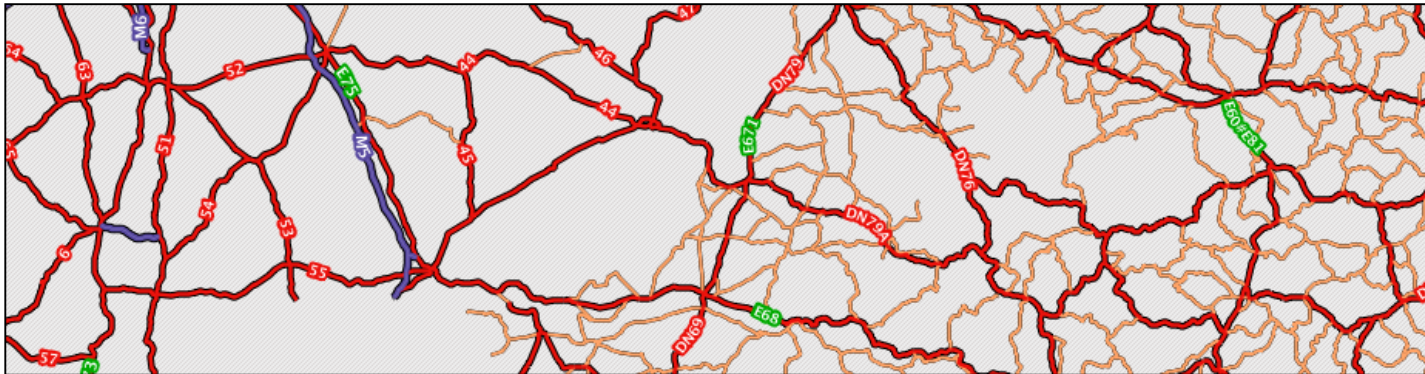
Step 2: MS data retrieval

- Automated download processes of raw MS data
- Based on operational download services (if any)

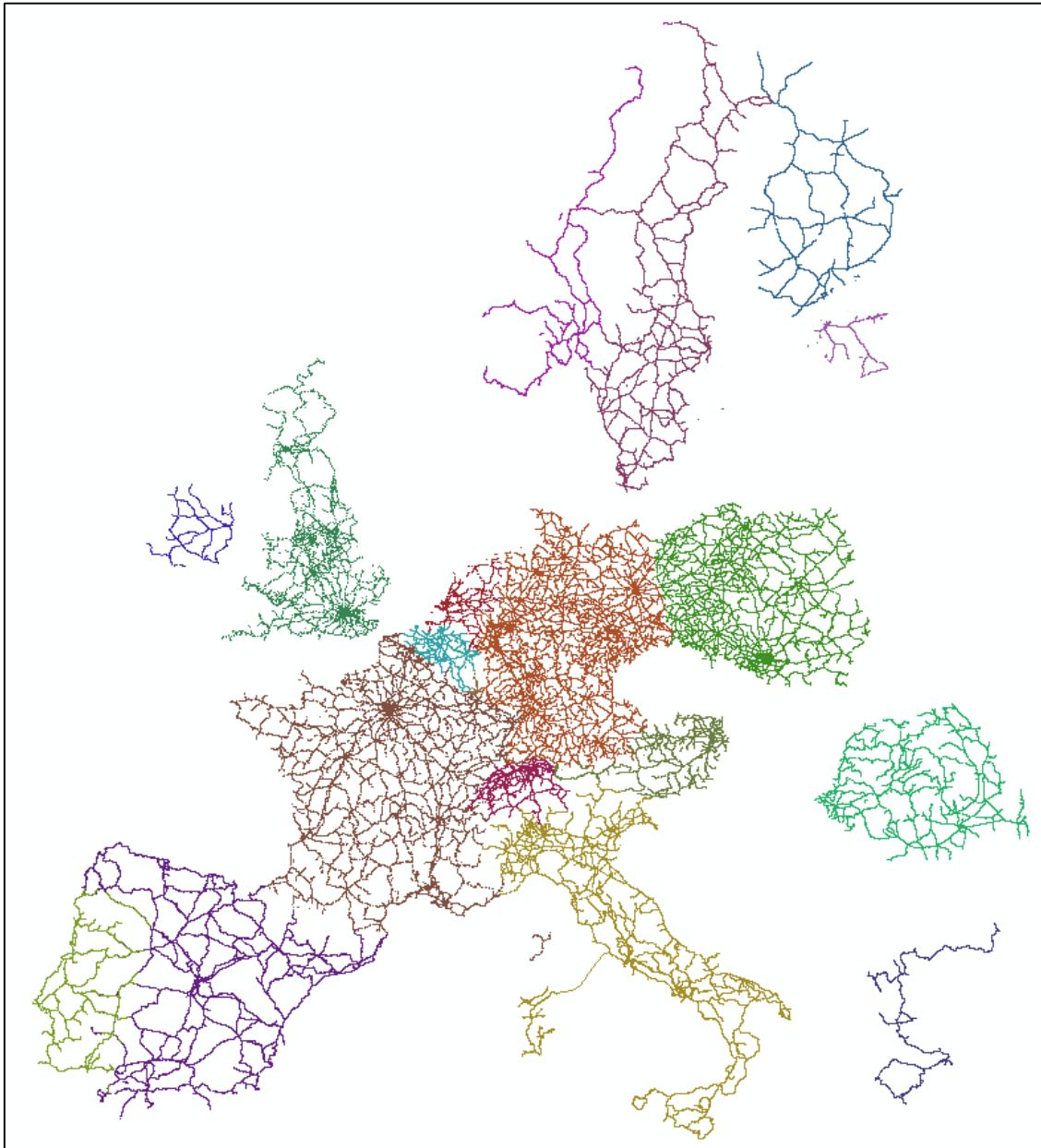


Step 3: Initial data combination

- *Union (projection, format, structure)*
- *Generalisation & Edge-matching*



Railways



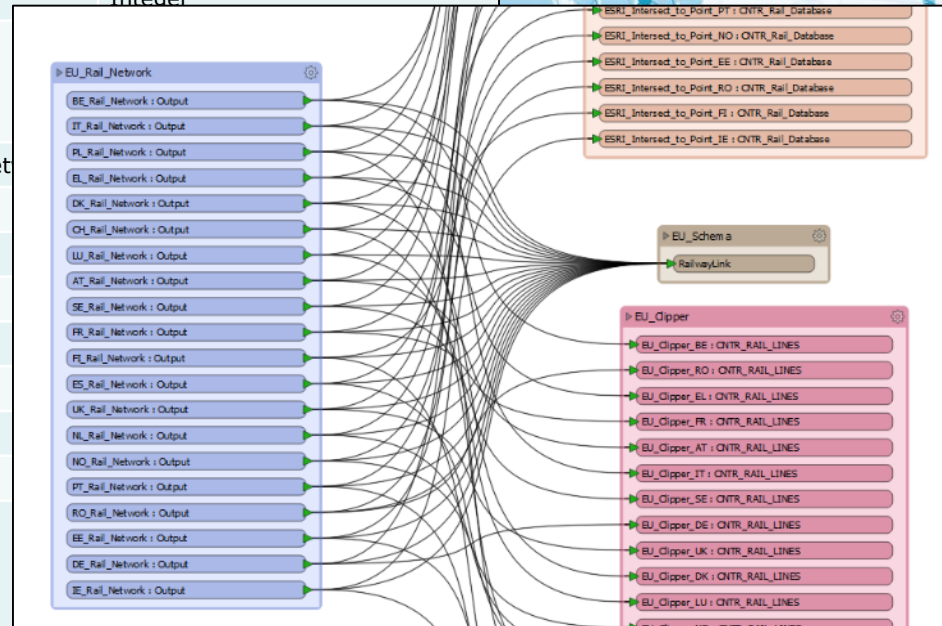
See:

<https://www.arcgis.com/apps/Styler/index.html?appid=d3c5b0b95c404a5181833886df50912d>

Railways

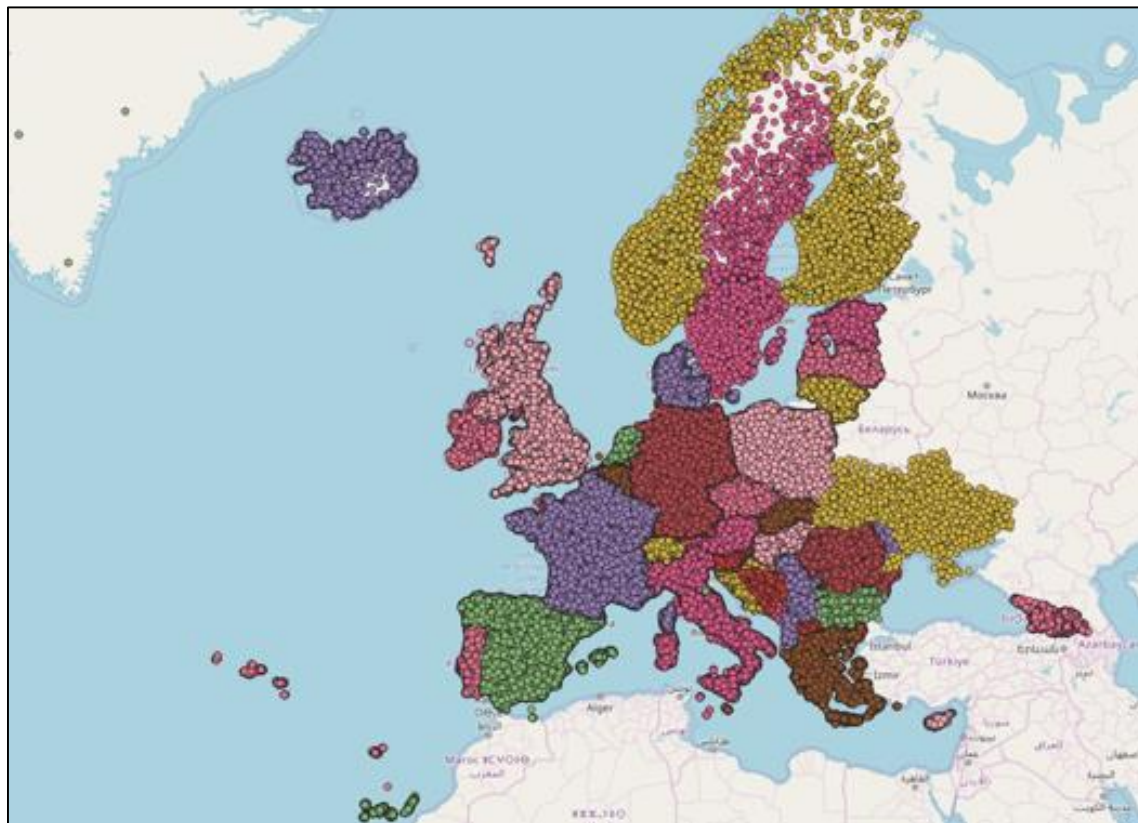
Data structure based on UN-GGIM:Europe core specs.

Type	Attribute	Values / enumeration
RailwayLink (priority 1)	Geometry	GM_Curve
	Type	RailwayTypeValue * cogRailway * funicular * magneticLevitation * metro * monorail * suspendedRail * train * tramway
	numberOfTracks	Integer
	verticalPosition	
RailwayLine (priority 1)	TransEuropean Transport Net	
	electrified	
	definition	
RailwayStation (priority 1)	railwayLineCode	
	name	
	Geometry	
	geographicalName	
	stationCode	
	railwayUse	

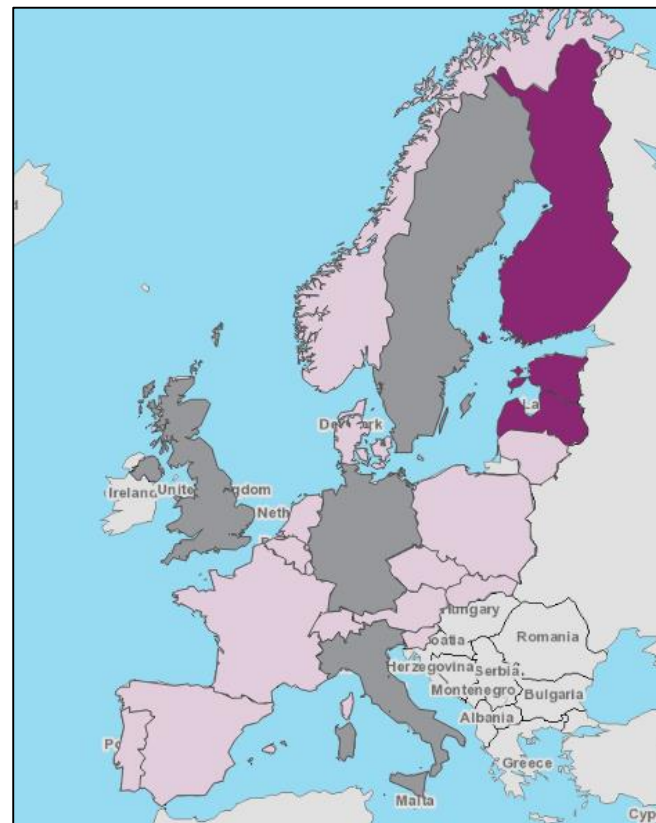


port
Content

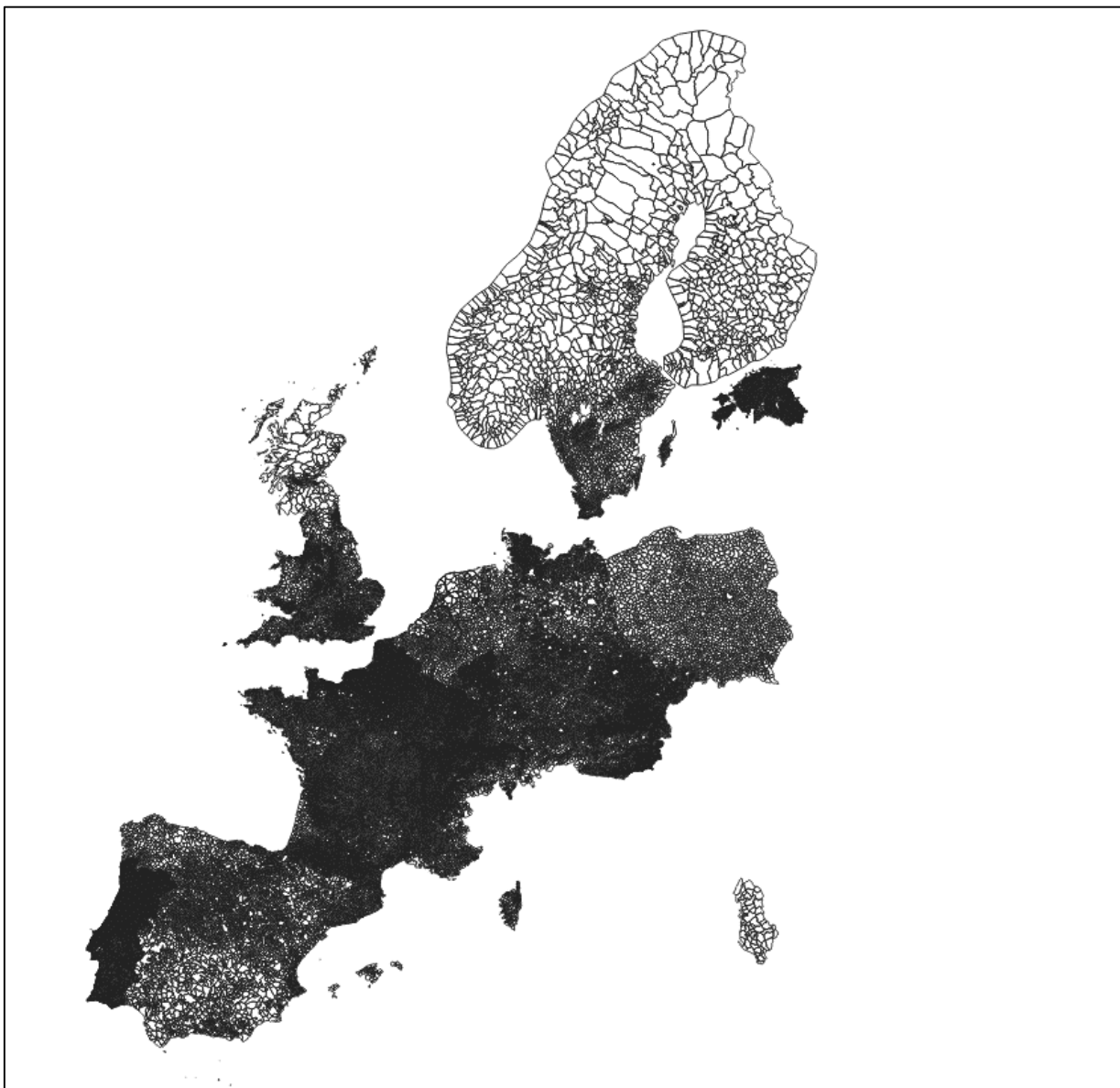
Geographical names



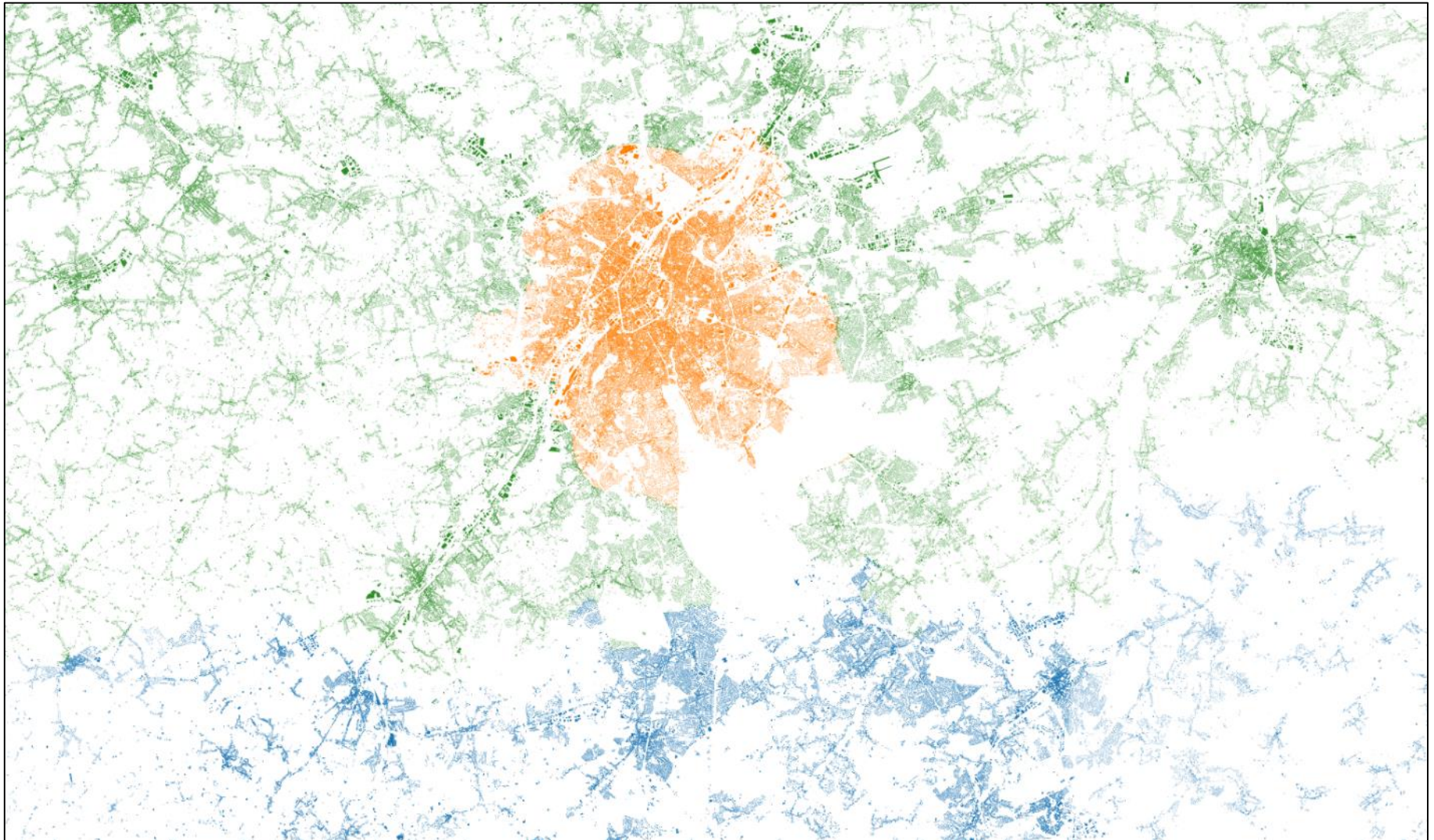
Addresses



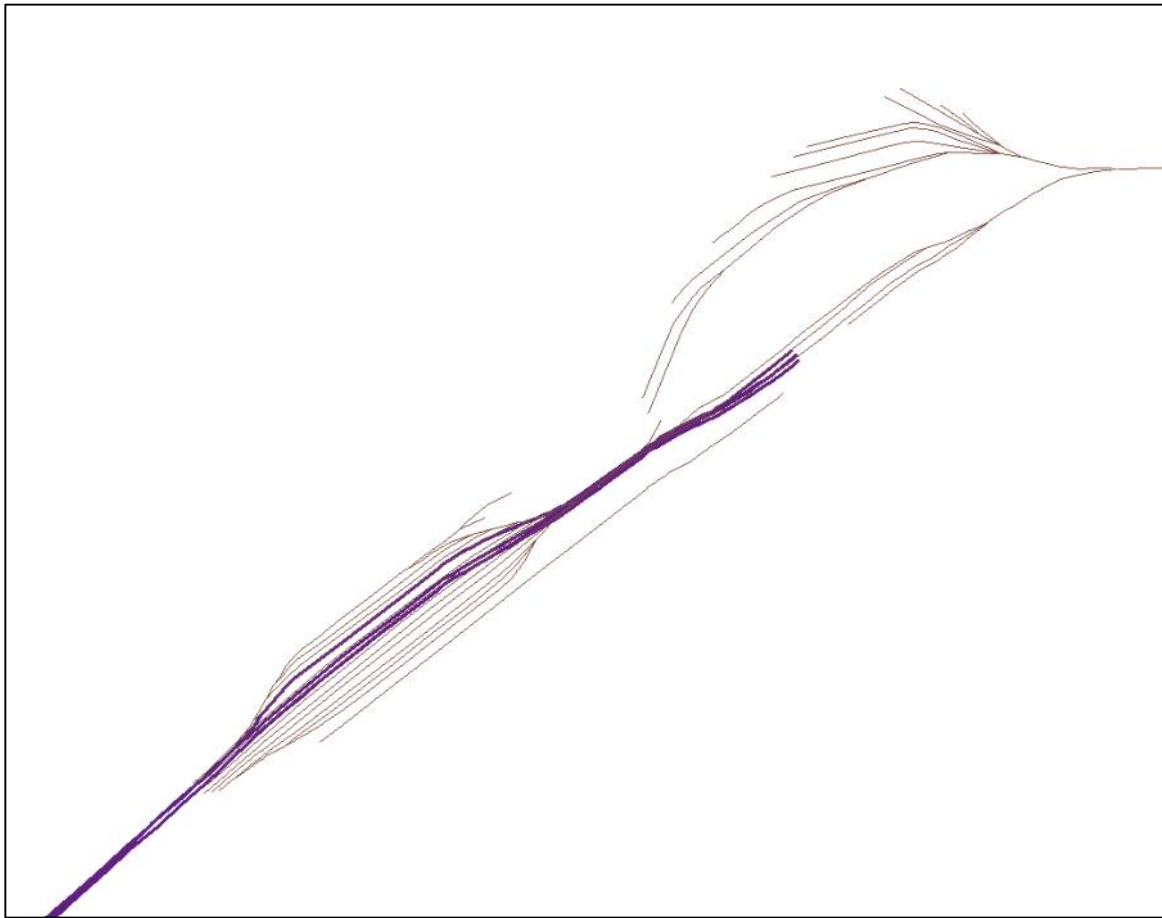
Administrative units (LAUs)



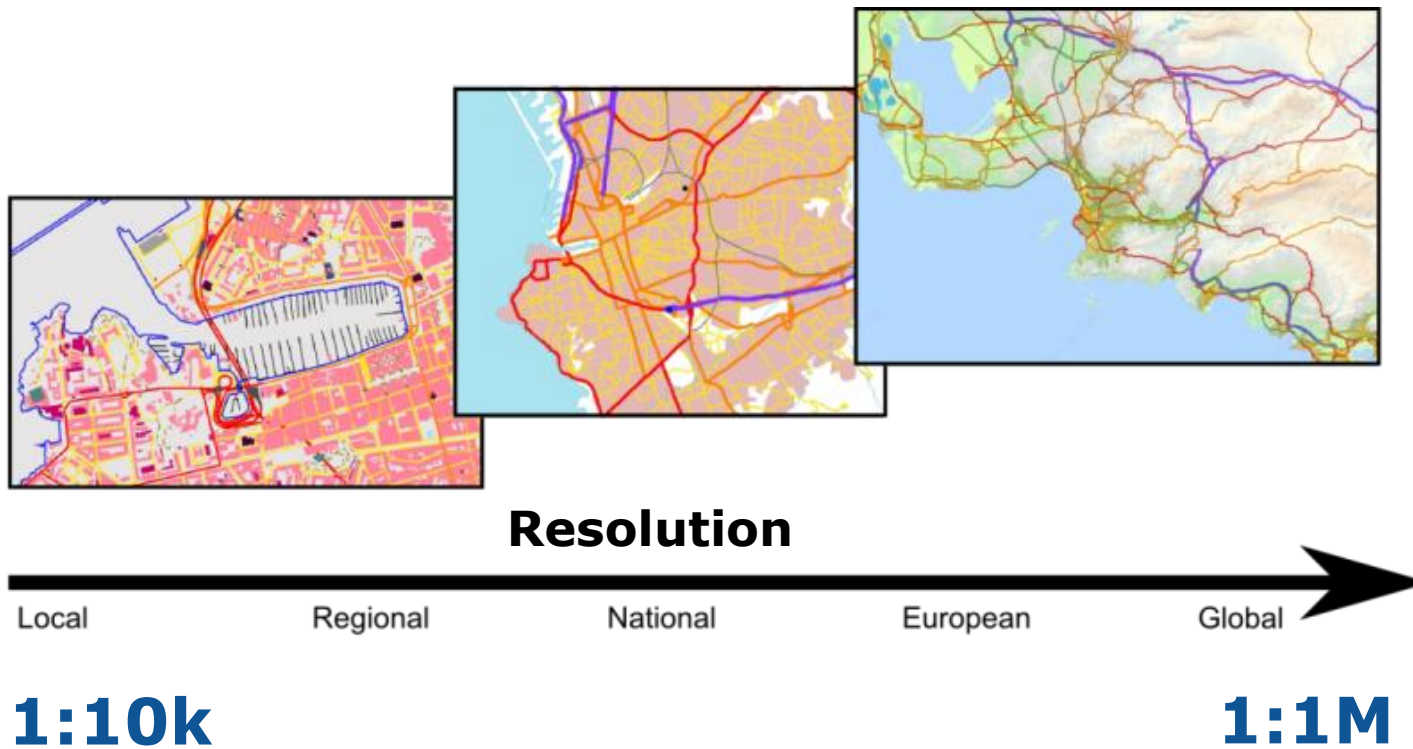
Building – Belgium



Edge-matching & Generalisation



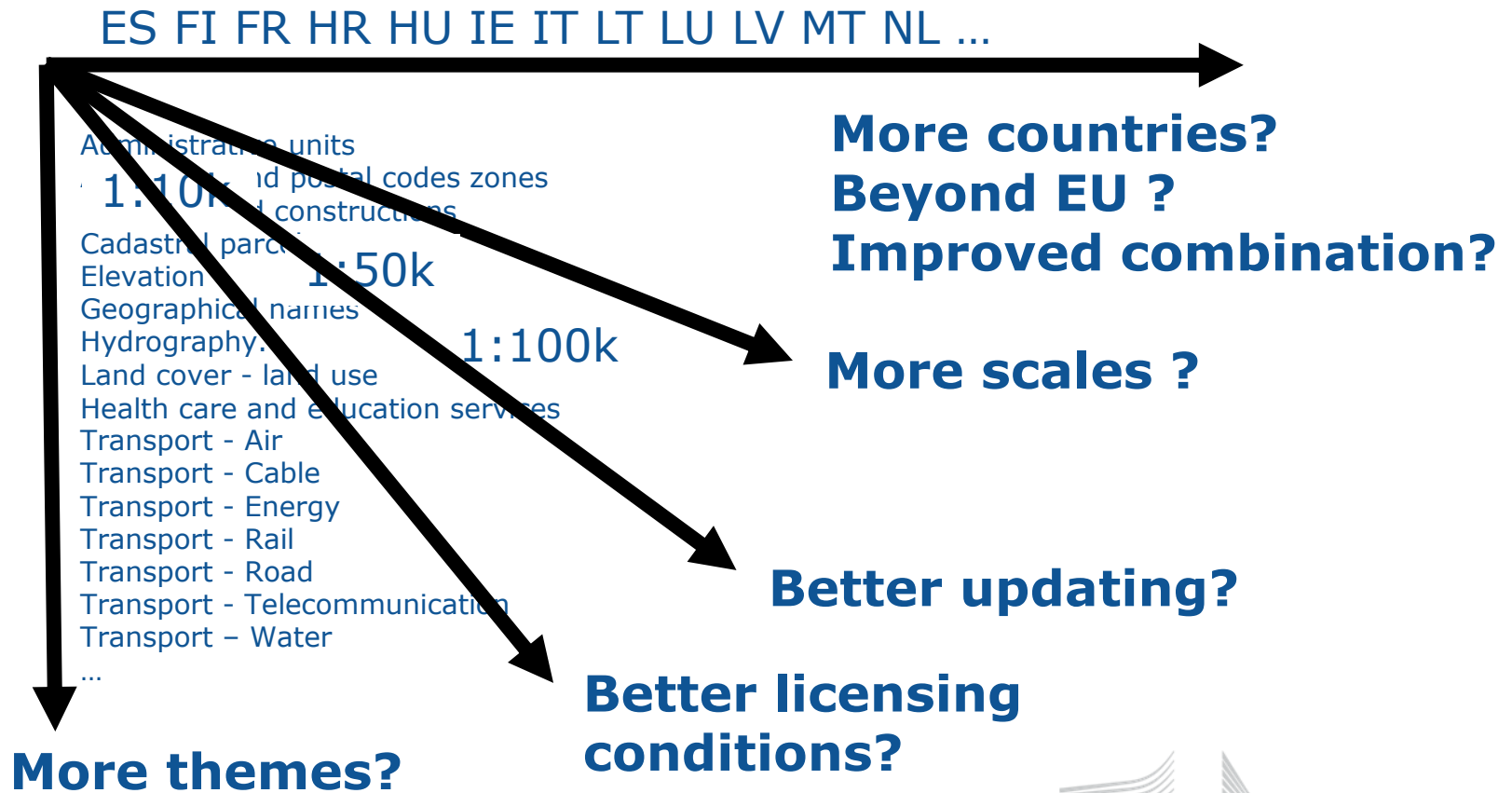
Need for multi-resolution data



Step 4: Incremental update and maintenance

- *Need for sustainable data provision and proper maintenance. Stop with one-shot project.*
- *Update:*
 - ***From snapshot to incremental update model***
 - ***Need for differential datasets***
- *Maintenance:*
 - ***Follow progressive evolution/improvements of MS data***

Next



Next

- *On railways:*
 - **Fill missing gaps**
 - **Routable and multi-scale**
 - **Integrate other data sources (RINF, UIC, OpenStreetMap, ERM, Eurostat stats, ERA-ERTMS, etc.)**
- *Automation, automation, automation*
- *Extend thematic scope*
 - **Health care and education services**
 - **Other transport networks**

Next

- *Governance*
- *Collaboration*
- *Resources*

Thanks !

