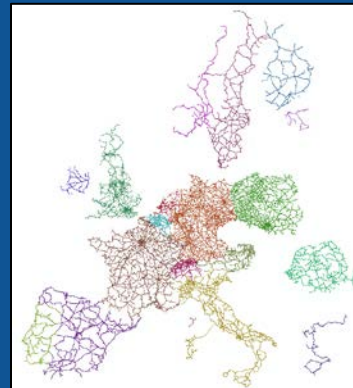


EC action to better use official Member State's data for pan-European data for the commission



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*

Jestes tutaj: Start » Dane bez opiat » BDOO

3.Baza danych obiektów ogólnogeograficznych (BDOO)

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

Nazwa	Rozmiar	Rozszerzenie	Data modyfikacji
PL.PZGK.201.02 - woj. dolnoslaskie	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. opolskie	12,7 MB	gml	2016-07-08
PL.PZGK.201.12 - woj. malopolskie	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. slaskie			
PL.PZGK.201.26 - woj. swietokrzyskie			
PL.PZGK.201.28 - woj. warmińsko-mazurskie			
PL.PZGK.201.30 - woj. wielkopolskie			
PL.PZGK.201.32 - woj. zachodniopomorskie			

Aktualności

- 21. Plnik Naukowy
- Modul zdjec lotniczych w Portalu PZGKiK
- 16 listopada 2016 roku po raz drugi odbył się w CODGiK dzień otwarty pod hasłem GISday for Kids 2016

Komunikaty

- Komunikat
- Dzień wolny
- CODGiK w likwidacji

Geoportal ČÚZK

Access to map products and services

Welcome Applications Data sets Network services INSPIRE

Cadastré RÚIAN ZABAGED®_planimetry ZABAGED®_altimetry Orthophoto Maps Geoidic control Geonames ASP Arch

You are here: Data sets

Cadastré of Real Estate

RÚIAN

Registry of Territorial Identification, Addresses and Real Estates

ZABAGED® – planimetric components

ZABAGED® – altimetry

Altimetry of the Czech Republic

Orthophoto

State map series

Geoidic control

Geonames

Survey photos

ge.admin.ch - das Geoportal des Bundes

ge.admin.ch - le portail fédéral

ÜBER GEO.ADMIN.CH

A PROPOS DE GEO.ADMIN.CH

geo.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.

DATENSATZ

JEU DE DONNÉES

http://map.geo.admin.ch/?layers=ch.bav.schiennentz

Date	Time	Attr	Size	Compressed	Name
2017-12-20	09:07:12	...	6937422	6923236	ArcGIS
2017-12-20	09:07:22	...	6931007	6915785	ArcGIS
2017-12-20	10:15:44	...	1118027	993953	Descrpt
2017-12-21	10:50:16	...	448349	446561	Entree
2017-12-20	09:07:44	...	9840020	9837149	Interli
2017-12-20	09:08:54	...	9824592	9821699	Interli
2018-01-29	06:57:24	...	1313	697	Licence
2017-12-20	09:09:06	...	14806589	14802810	MapInfo
2018-01-29	07:13:30	...	14802316	14798956	MapInfo
2018-01-29	07:13:30	...	1480689	6772	Metadat
2018-01-29	07:13:30	...	424258	421896	Metadat
2018-01-29	07:13:30	...	63580	6027	Metadat
2017-12-20	10:15:44	...	1030672	923854	Metadta
2018-01-29	07:13:150	...	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	444592	Transp

67157075 66756521 17 files, 0 folders

DOWNLOAD

OS Open Map - Local

Data type: Vector

Supply format: ESRI Shape

Version: 10/2018

Coverage: Great Britain, National Grid Reference squares (9 Kb - 200 Mb)

DVD: N/A

Download: N/A

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 (OSX) 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](#).

WINNIBEE

DOWNLOADPORTAL

OVERVIEW

ACCESS

PERSONAL INFO

PRIVATE / ACCESS ON DEMAND

OPEN YOUR BASKET / 1 ITEMS

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 (2008)

Vectordata (2008)

KORTFORSYNINGEN

DOWNLOAD

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

Kort10, vektor

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

Færdige udtræk

Næste

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

Kort10 kan sammensættes af følgende datasets: GeoDanmark, Højdekurver, DAGI og Stednavne

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

Kurven

Kurven er t...

Hvordan

1. Vælg ud Vælg først o...

Dienstleistungscentrum

BKG Homepage

Freie Daten und Dienste des BKG

Open Data - Freie Daten und Dienste des BKG

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

Im Downloadbereich finden Sie typische Produktspezifikationen (Georeferenzierung, Formate), die von unseren Nutzern überwiegend nachgefragt werden. Über unseren [Spezial-Shop](#) 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

TopPlusOpen

Digitale Landschaftsmodelle (DLM)

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

Digitales Landschaftsmodell 1:250 000

Digitales Landschaftsmodell 1:1 000 000

data.gv.at - C

Katalogsuche

Suchbegriff

22129 Einträge gefunden

Stadtgrund der Wohnungsbenützung

Rechts/Lin/Magistrat der Landeshauptstadt Linz, Stadtforsung

Informationen zum Rechtsgrund der Wohnungen. Anmerkung: Erklärung

Filter

Anwenden Zurücksetzen

Kategorien

Ετικέτες

αιθροδρομικo δίκτυo

αιθροδρομικoσ σταθμoς

αιθροδρομoς

τρéνο

Υπηρεσίες

sidhrodromiko_diktyo (WMS)

A WMS layer generated from αιθροδρομικo δίκτυo Ειλήθοδoς

sidhrodromiko_diktyo (WFS)

A WFS layer generated from αιθροδρομικo δίκτυo Ειλήθοδoς

Μεταδοθόμενα

Kατάσταση active

Άδεια Creative Commons Attribution 3.0

INSPIRE

Μεταδοθόμενα

Εκταση

αιθροδρομικo δίκτυo

αιθροδρομικoσ σταθμoς

αιθροδρομoς

τρéνο

Ετικέτες

αιθροδρομικo δίκτυo

αιθροδρομικoσ σταθμoς

αιθροδρομoς

τρéνο

Εκταση

αιθροδρομικo δίκτυo

αιθροδρομικoσ σταθμoς

αιθροδρομoς

τρéνο



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 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

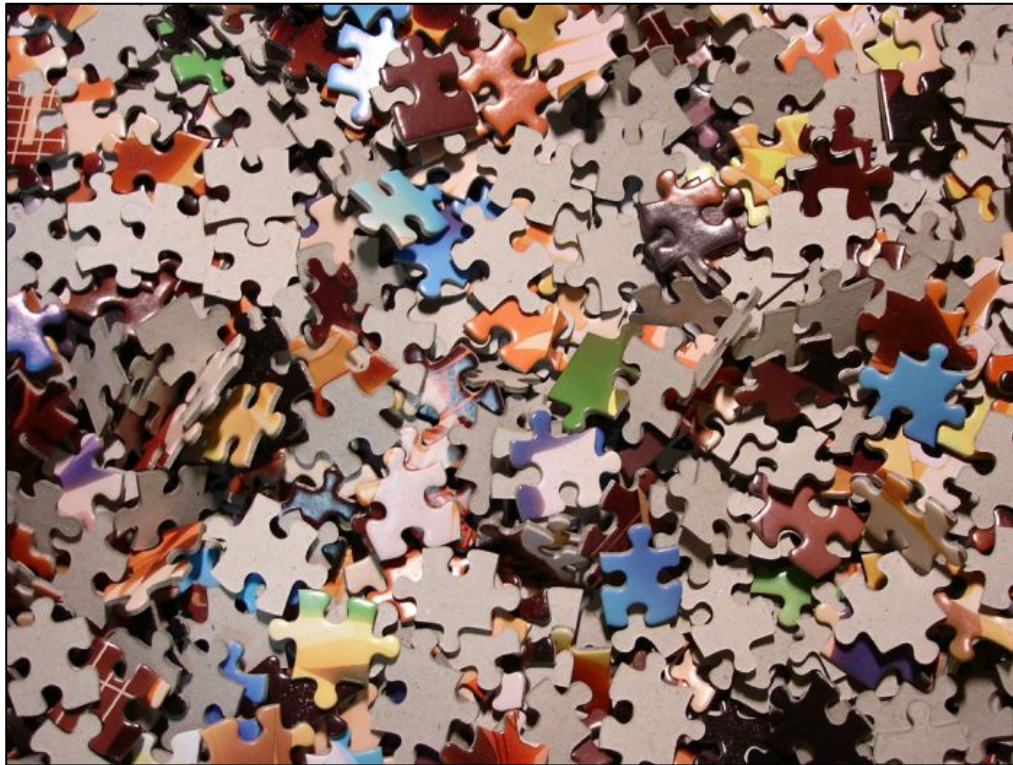
31
Metadata records

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	Netherlands	23 11 16	Sweden	37 0 17
Croatia		Iceland	8 1 0	Norway	14 0 0	Switzerland	12 0 0
Cyprus		Ireland	1 0 0	Poland	27 2 4	United Kingdom	166 2 1
Czech Republic	8 0 6	Italy	754 0 6				

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.

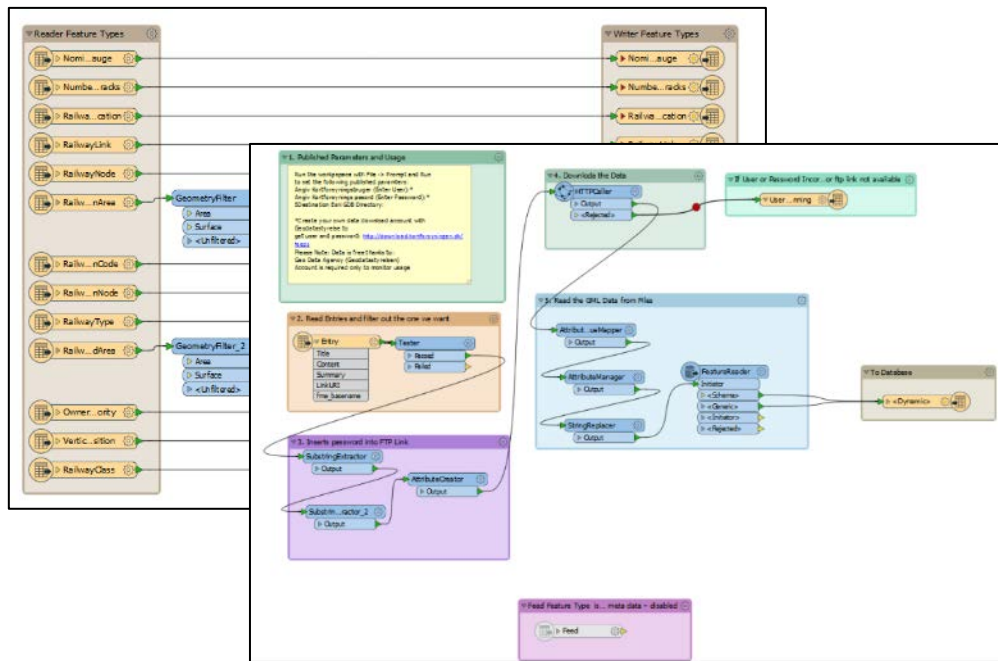
DE

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)



- AD
- AGRI
- AM
- AU
- BU
- CP
- EL
- GEOD
- GN
- HY
- LC-LU
- PS
- SU
- TN-air
- TN-cable
- TN-energy
- TN-rail
- TN-road

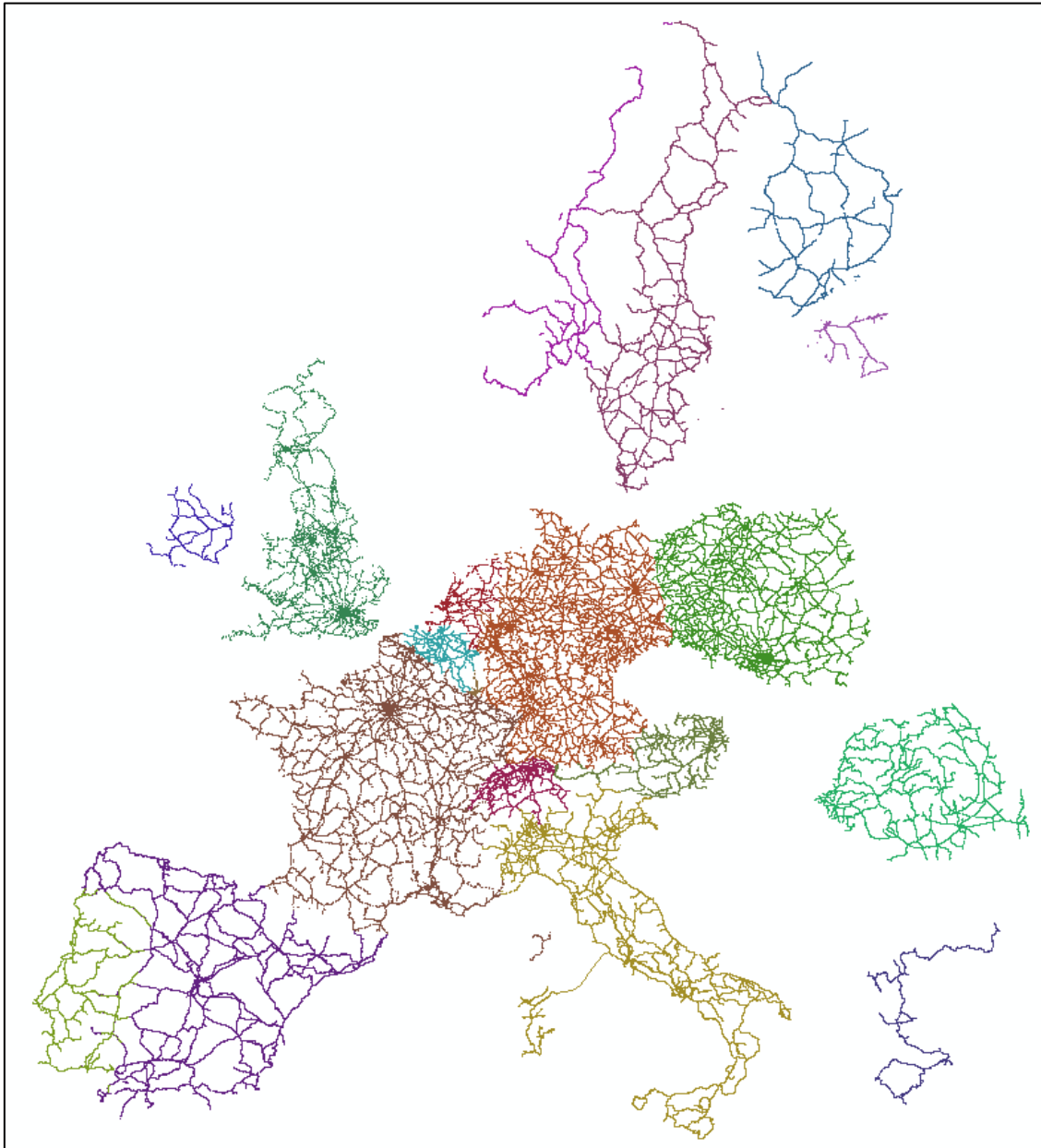
- AL
- AT
- BE
- CH
- CZ
- DE
- EE
- ES
- FI
- FR
- HU
- IE
- LT
- LU
- NL
- NO
- PL
- PT
- SE
- TU

Step 3: Initial data combination

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



Railways



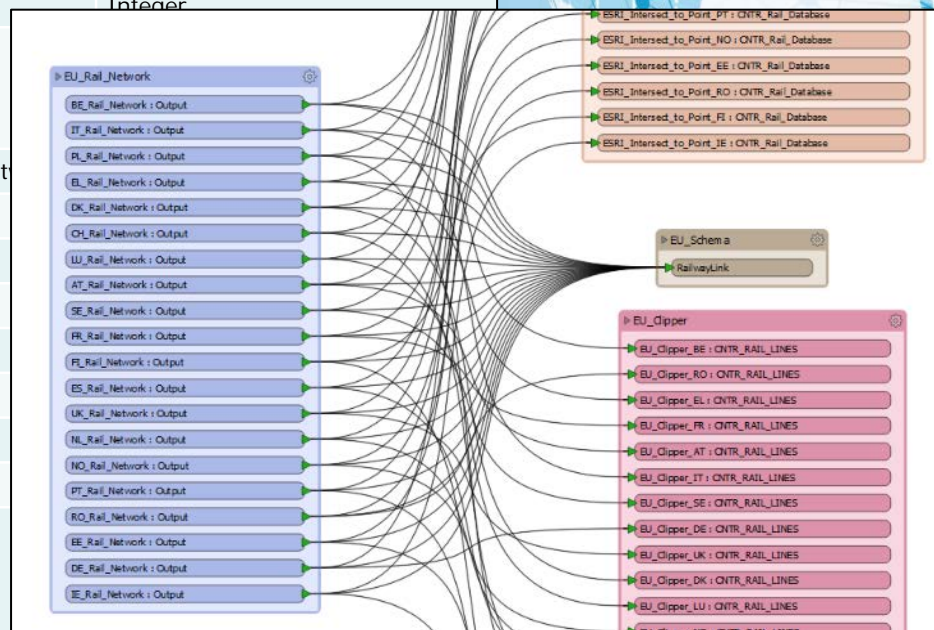
See:

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

Railways

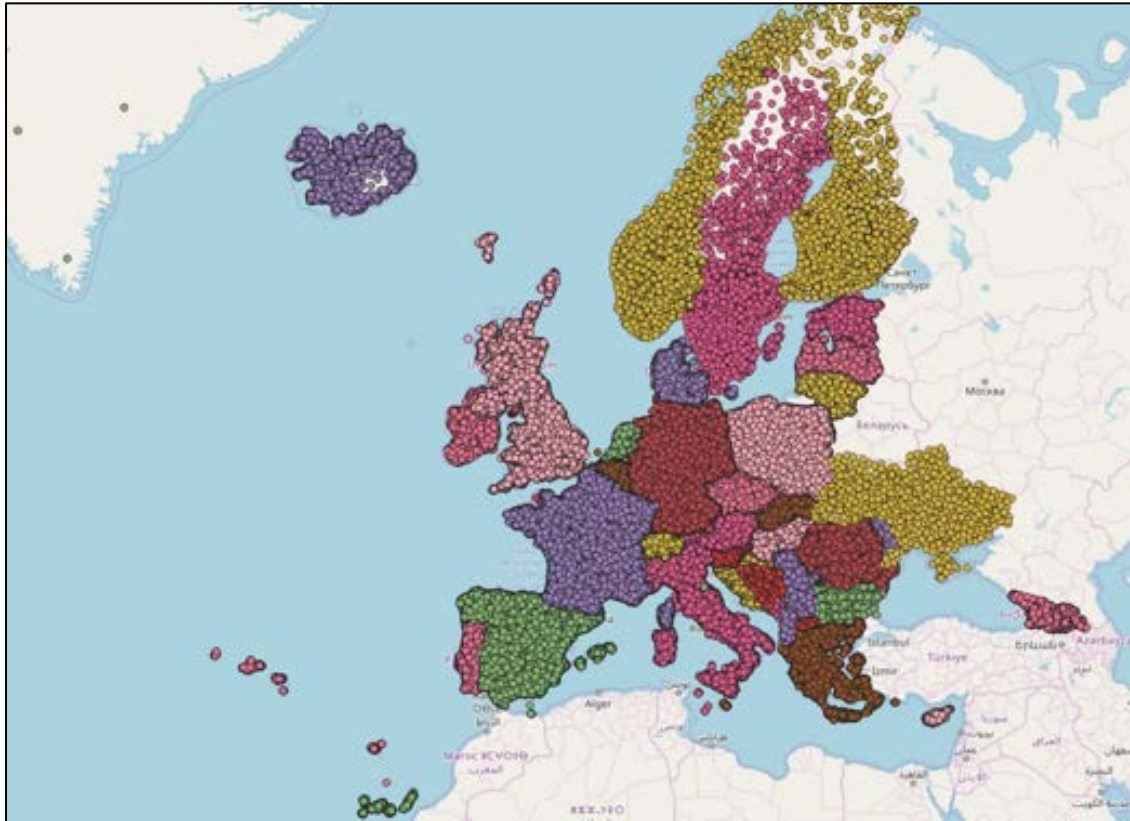
Data structure based on UN-GGIM: Europe core specs.

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	

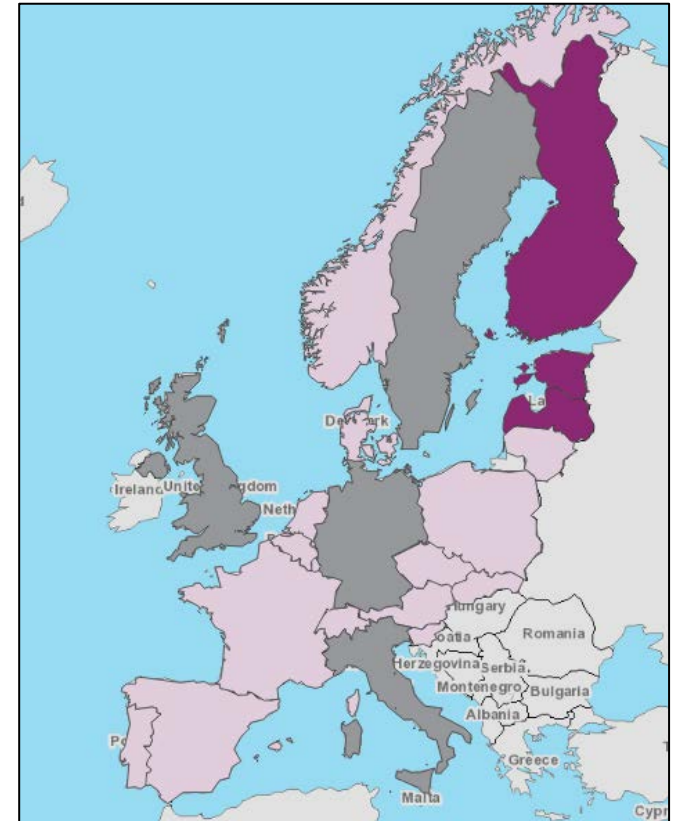


port
Content

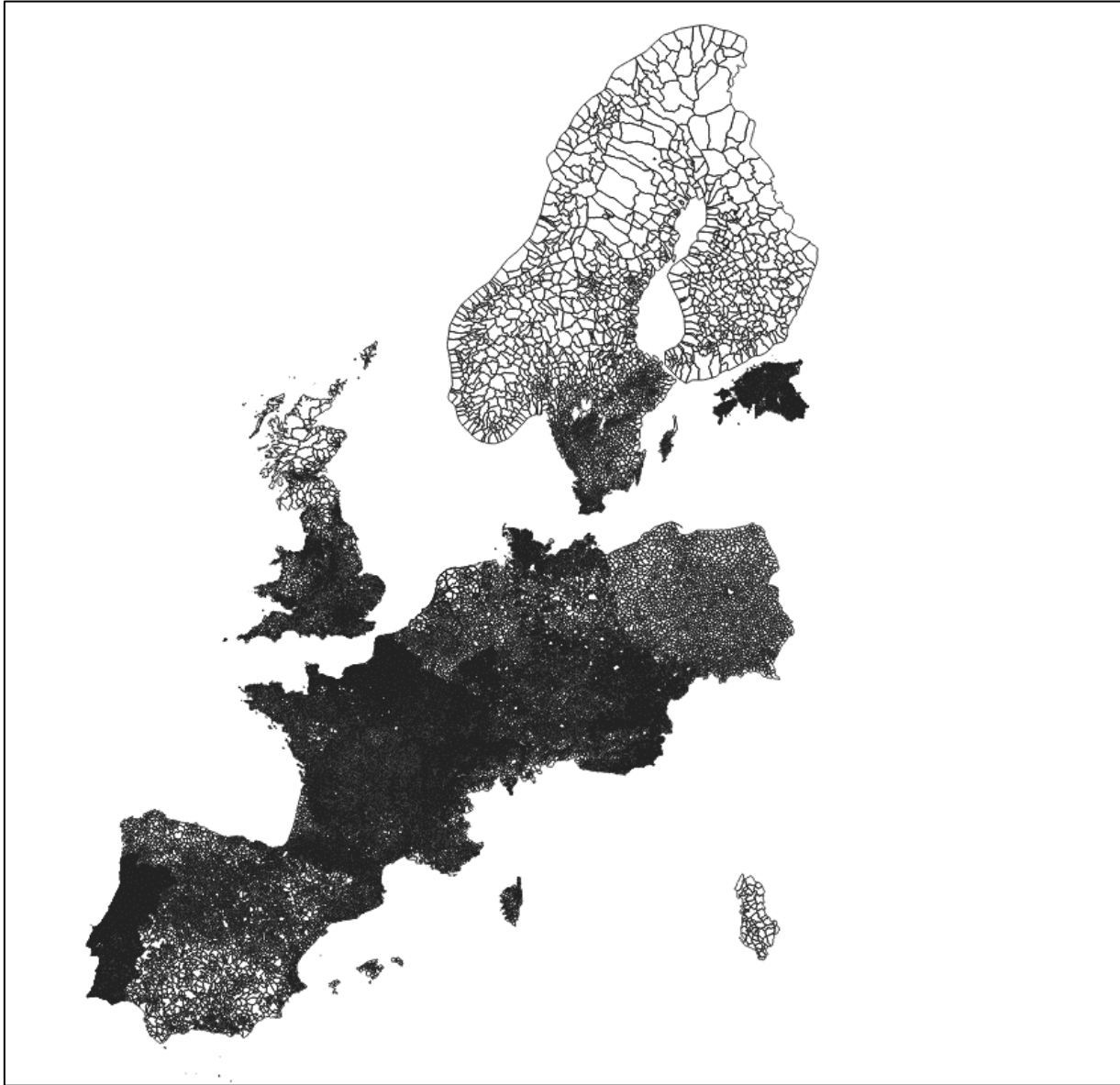
Geographical names



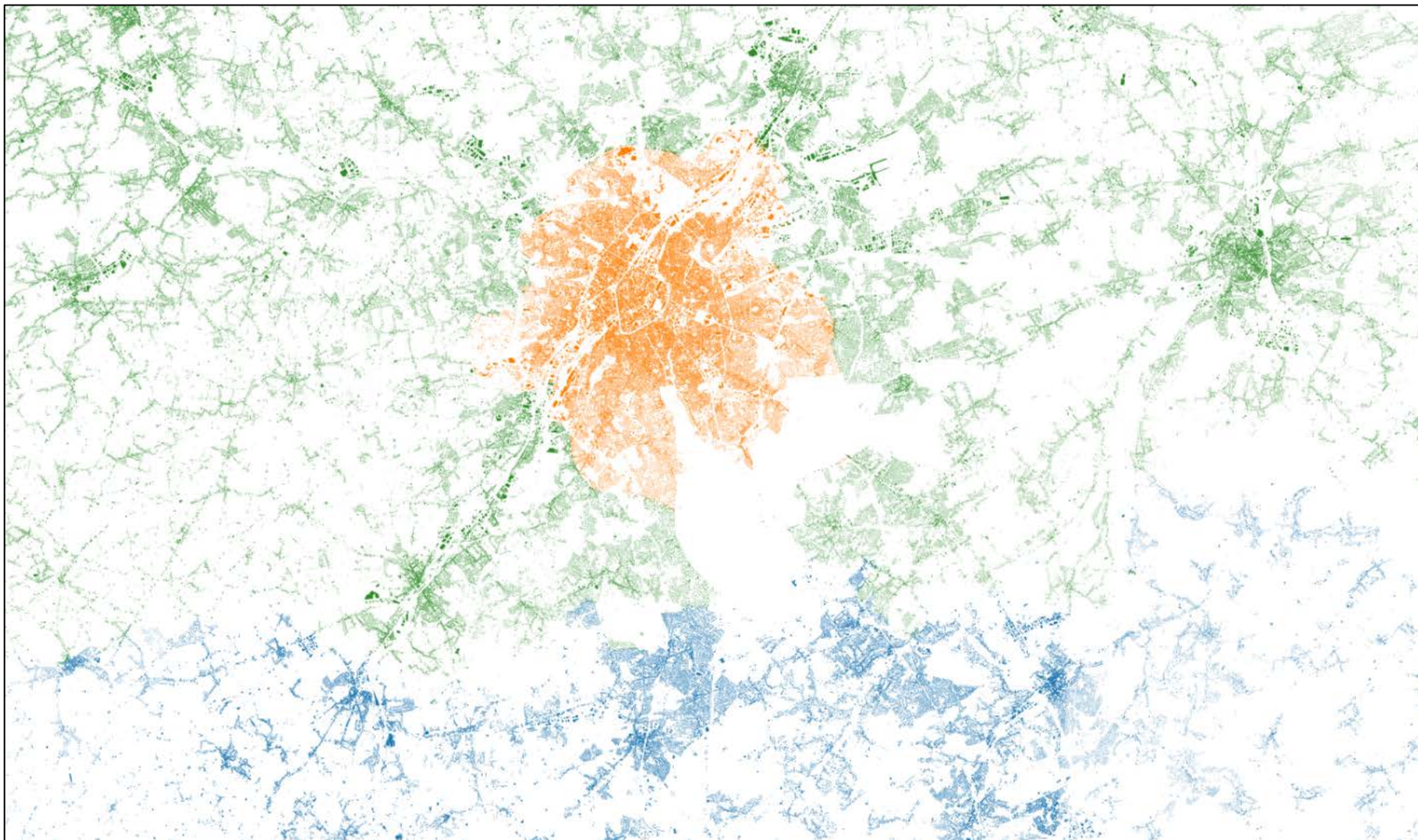
Addresses



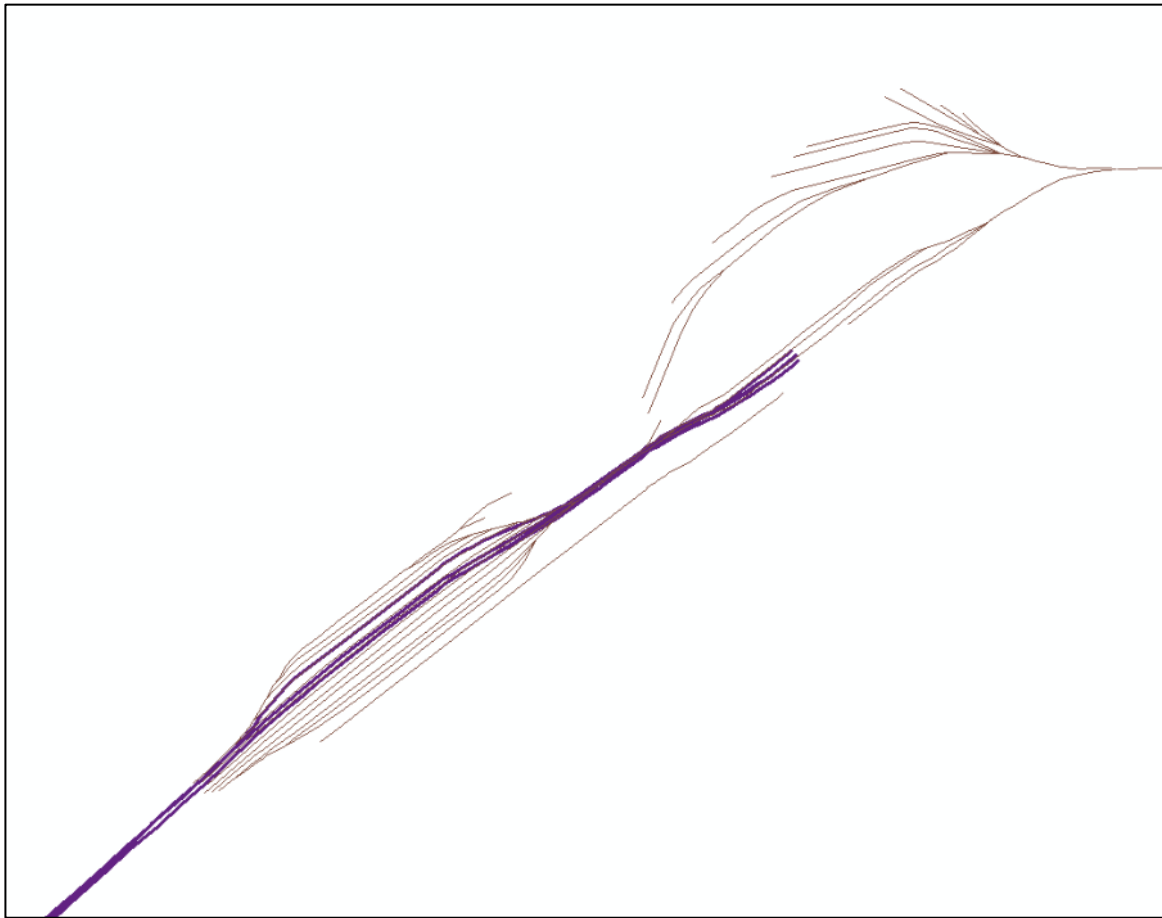
Administrative units (LAUs)



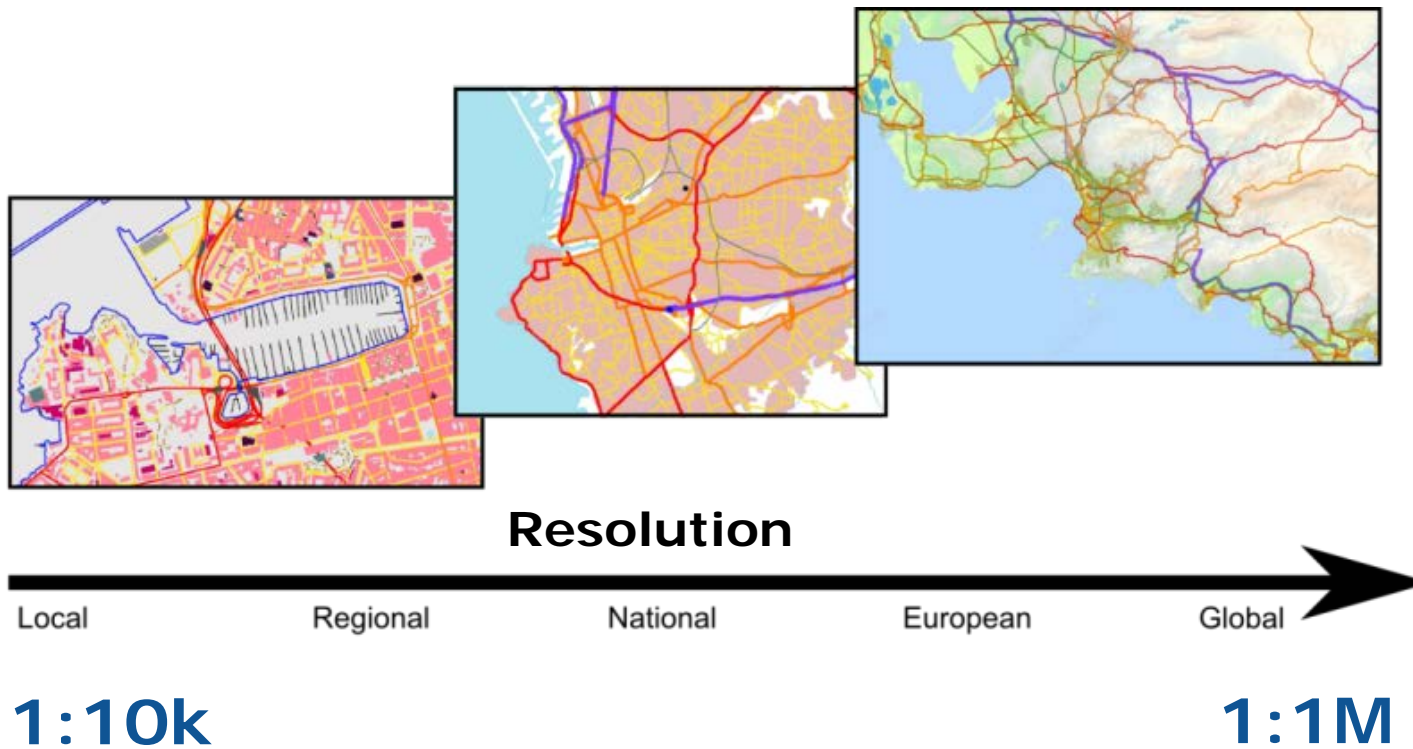
Building – Belgium



Edge-matching & Generalisation



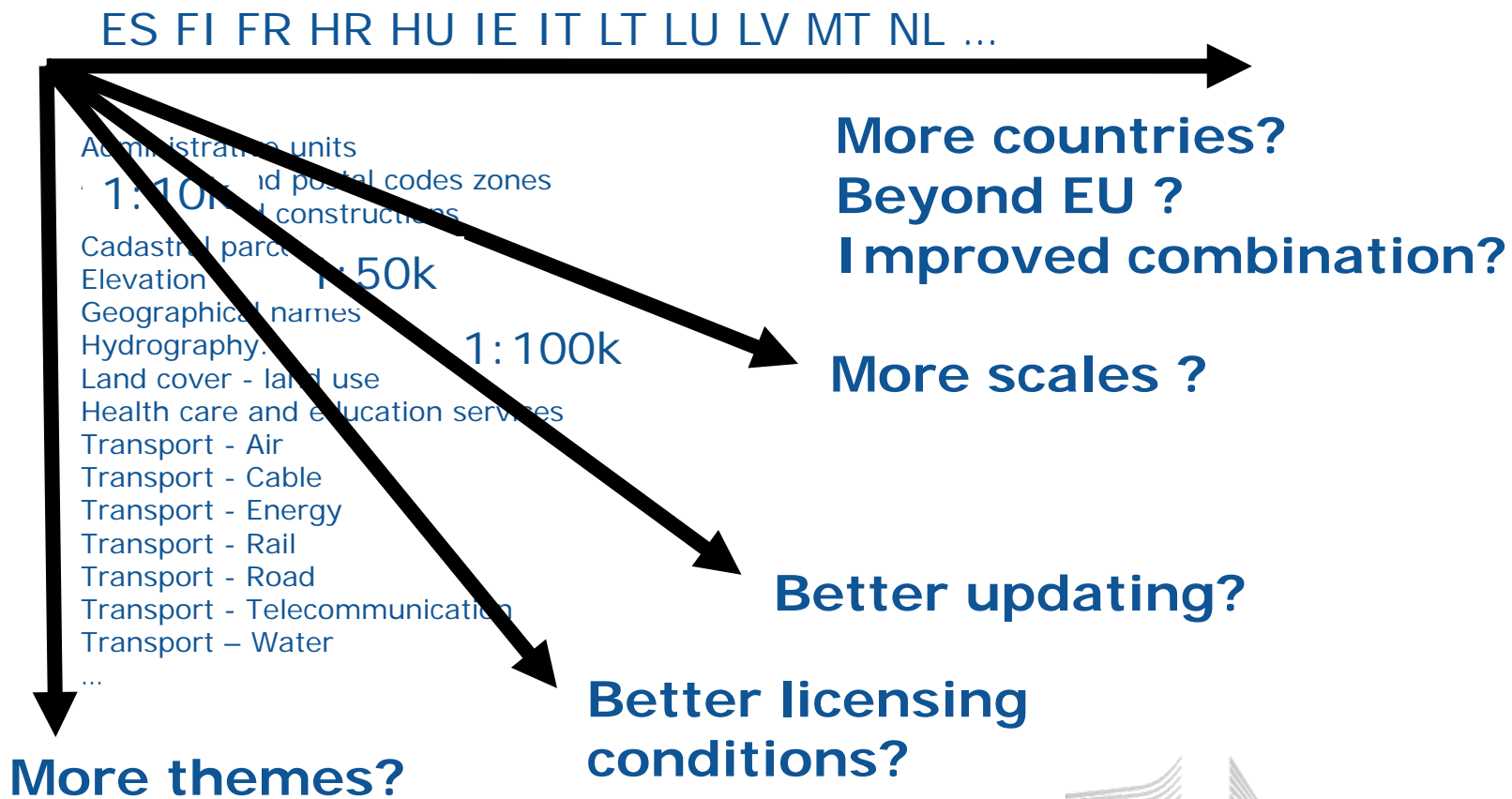
Need for multi-resolution data



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 !

