

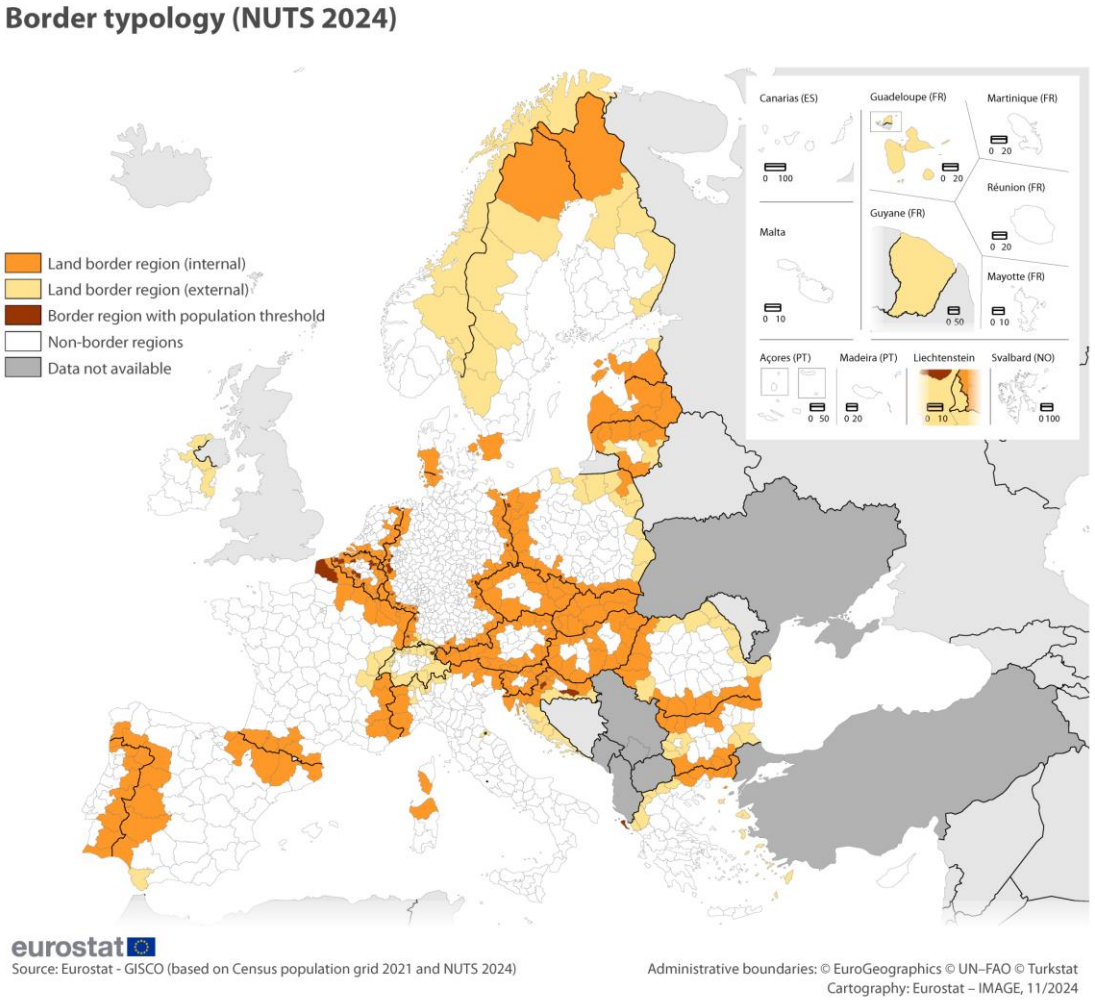
Why your work matters!

European geospatial data infrastructure without harmonisation



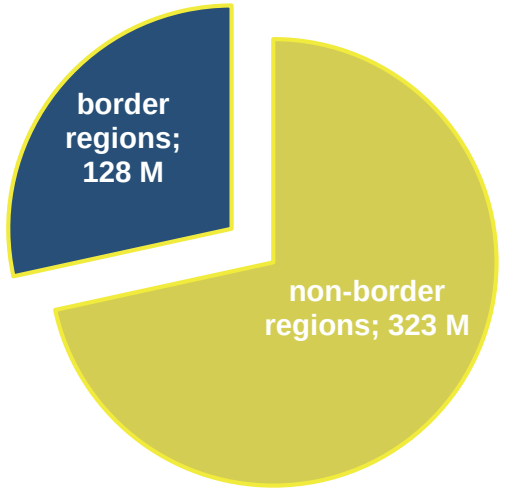
- national fragmentation
- inhomogeneous data semantics
- no edge-matching

One third of Europe lives in border regions



Border topology definition (Eurostat):

- NUTS 3 regions
- located along land borders or
- majority (>50%) of population within 25 km of a border



Socio-economic questions in border regions

Topic	Needed characteristics
Access to (public) services	Connected networks, data rich points of interest
Trade and connectivity	Connected networks and attributisation
Land, resources, and climate risk	Homogeneous characterisation of environmental features
Comparable socio-economic indicators	Homogeneous topical data; reference polygons



Euro**B**oundary**M**ap, **E**uro**R**egional**M**ap, **E**uro**C**ore**R**eference**M**ap

YOU and your expertise !!!



Production 2026 / 2027

EuroBoundaryMap

EuroRegionalMap



Agenda

- Status of production year 2026
- Production of EBM and ERM in 2027
- International Boundary
- Technical issues & remarks for EBM and ERM

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Status of production year 2026

- EBM:
  - Majority of data delivered
  - Some open issues -> will be addressed
  - Pre-release to Eurostat in December, planned release on 20.01.2027

- ERM:
  - Updated themes: TRANS, POP, VEG
  - ERM Validator Version 2027.1
  - Aggregation phase starts now
  - Provision in spring 2027

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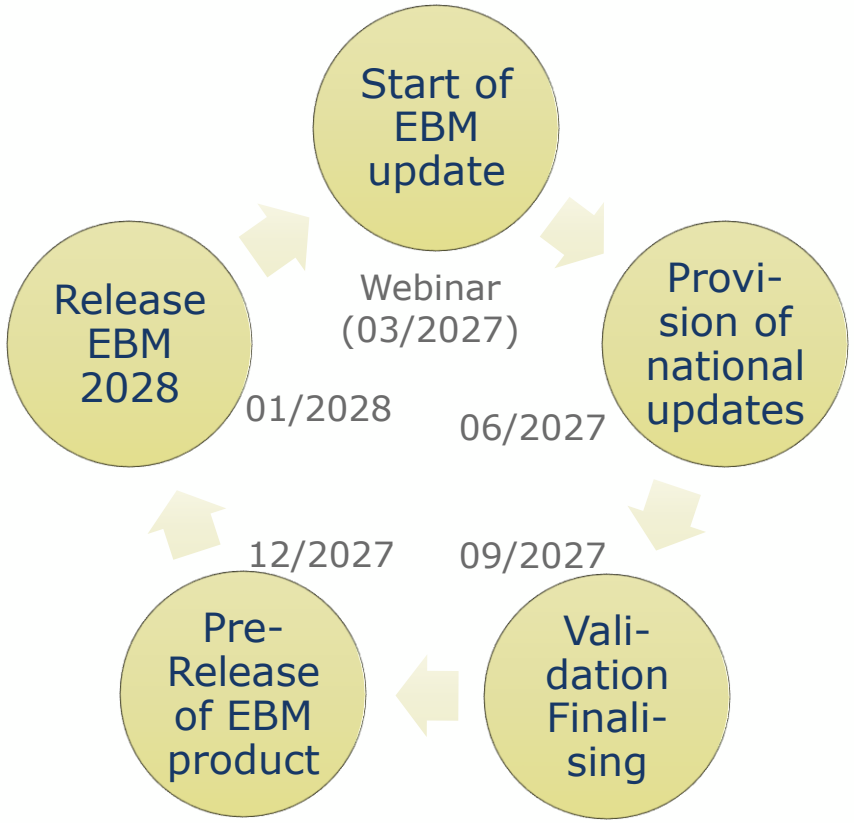
Production of EBM in 2027

- Reference date: 31.12.2026
- The data model and all documents are kept stable
- Prepare for NUTS 2027 classification
- Minimum size of polygon features is **0.25 ha**
  - Please provide islands over 0.25 ha
- There aren’t any other new requirements, but take care of:
  - Distance of vertex > 5 m and generalization degree
  - Considering narrow corridors identification
  - OGC conformity

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Production of EBM in 2027

- NMCAs have to update the following content of the EBM database:
  - Feature class EBM_A → basic EBM geometry
  - Table EBM_NAM → basic EBM attribution
  - Feature class ResidenceOfAuthority
  - Table EBM_NUTS
    → Regulation **NUTS2027**
  - Table EBM_ISN
- NMCAs shall deliver only those feature classes or tables, where changes occur



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Production of ERM in 2027

- Themes to update: HYDRO, POP
- You can deliver any additional theme (update cycles)
- Data model is kept constant to maintain existent workflows
- Edge matching -> refinement

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Timetable for EBM 2028 / ERM 2028

01.03.	Provision of production plan, documents and data to producers
Provide national production plan in PMS	15.03.
Delivery of ERM POP,HYDRO to RC	30.06.
Delivery of EBM to PM	30.06.
Delivery of additional themes; delivery of metadata / lineage information	30.09.
30.09.	RC: Final validation and aggregation plus delivery to PM
November	PMT: Aggregation, last validation, finalisation
Jan 2028	EBM: Delivery to Eurostat

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International Boundary

Valid version for EBM 2028 and ERM 2028: ELF IB Regional 2028

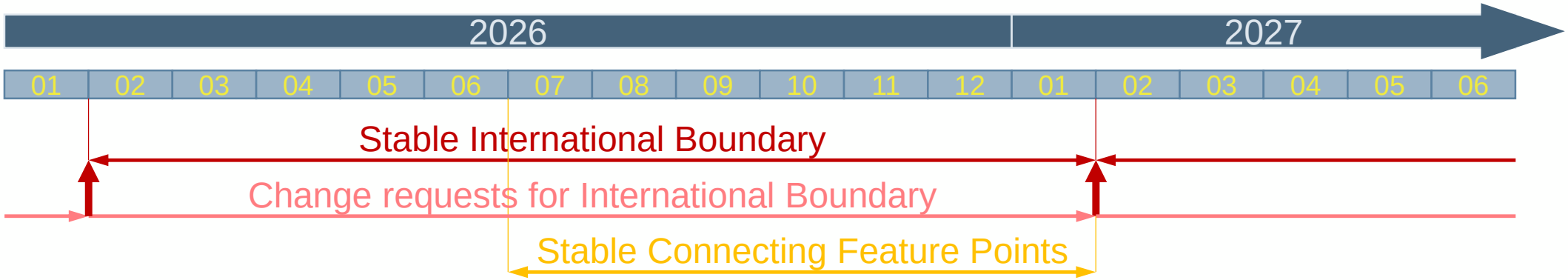
In case of issues (international boundaries and/or connecting features)

→ Contact: ebrm@bkg.bund.de

Changes of IB or CFPs have to be accepted by neighbouring countries!

Changes for IB have to reach BKG at latest in January 2027
to be valid in EBM/ERM 2028

Changes for CFPs can be accepted until June 2027



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EBM

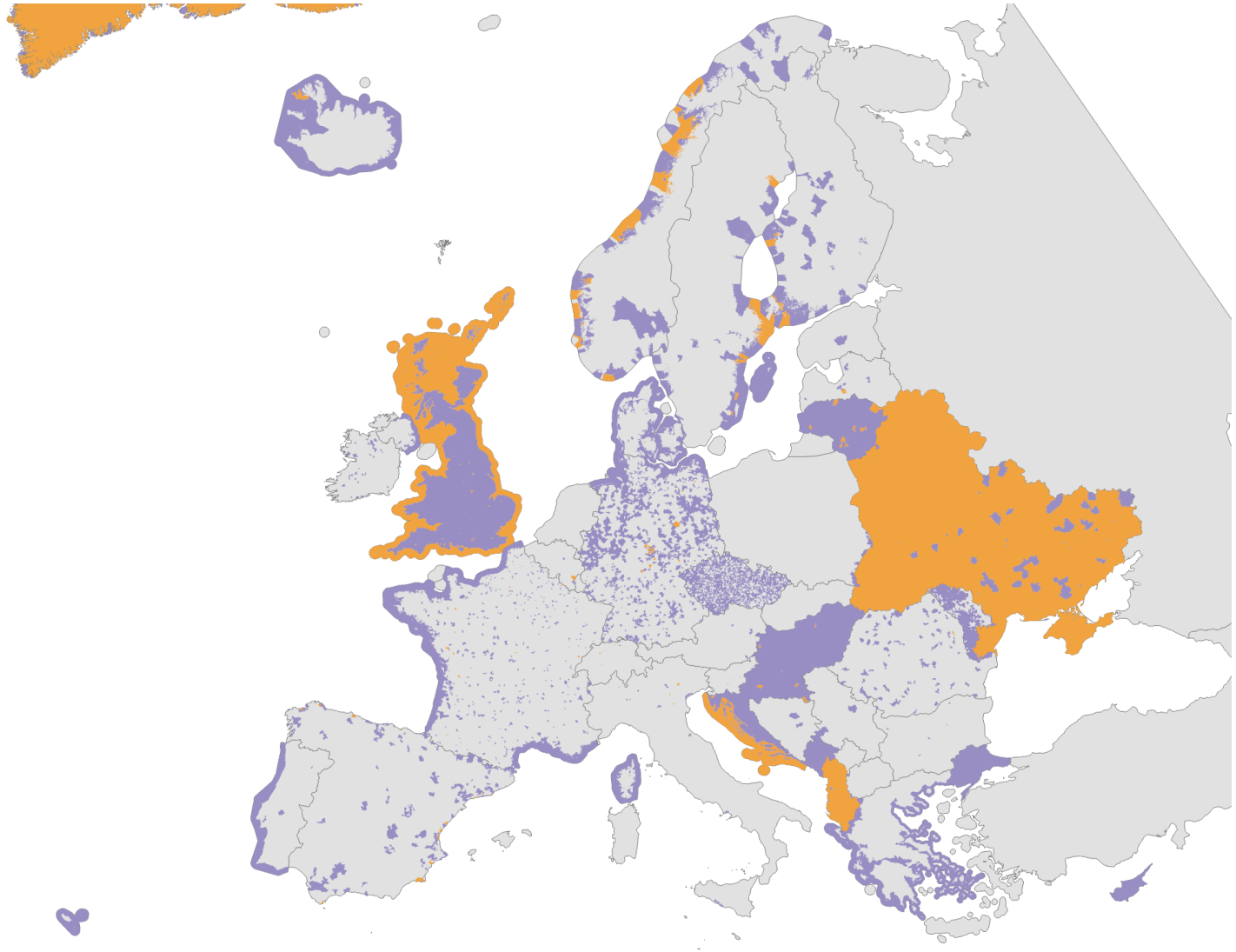


Corrections for Estat

- Islands reports -> positional accuracy
- Some homogenization issues
- Generalization degree (especially in regard to coastlines)

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Geometrical changes from 2025.1 to 2026.1

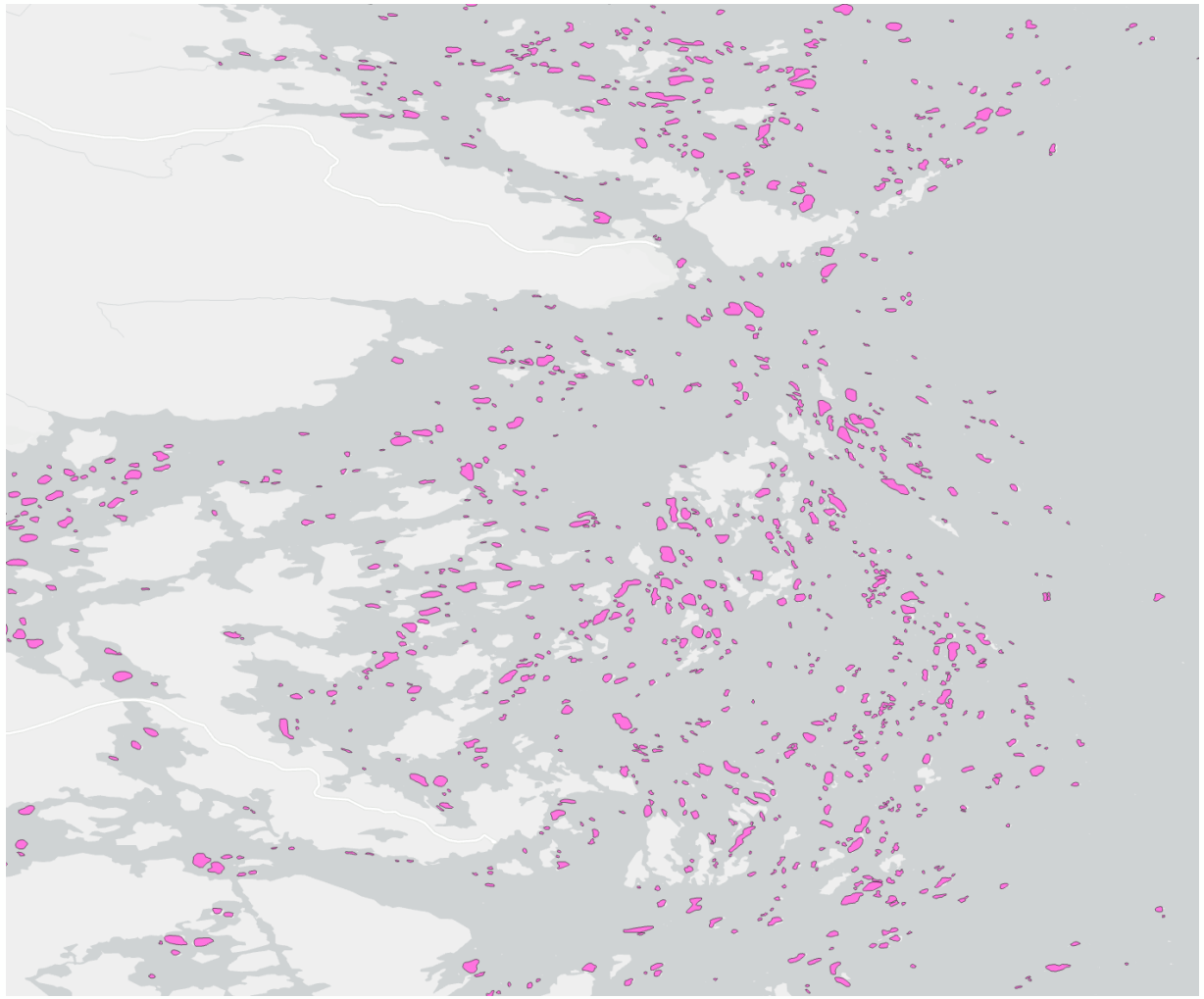


Significantly changed / Inserted

Changed / modified (slightly)

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Islands and Coastlines



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Other issues

- Territorial water -> if not delivered yet please consider delivering
- NUTS2027
- Consider generalization of your data especially when delivering small islands

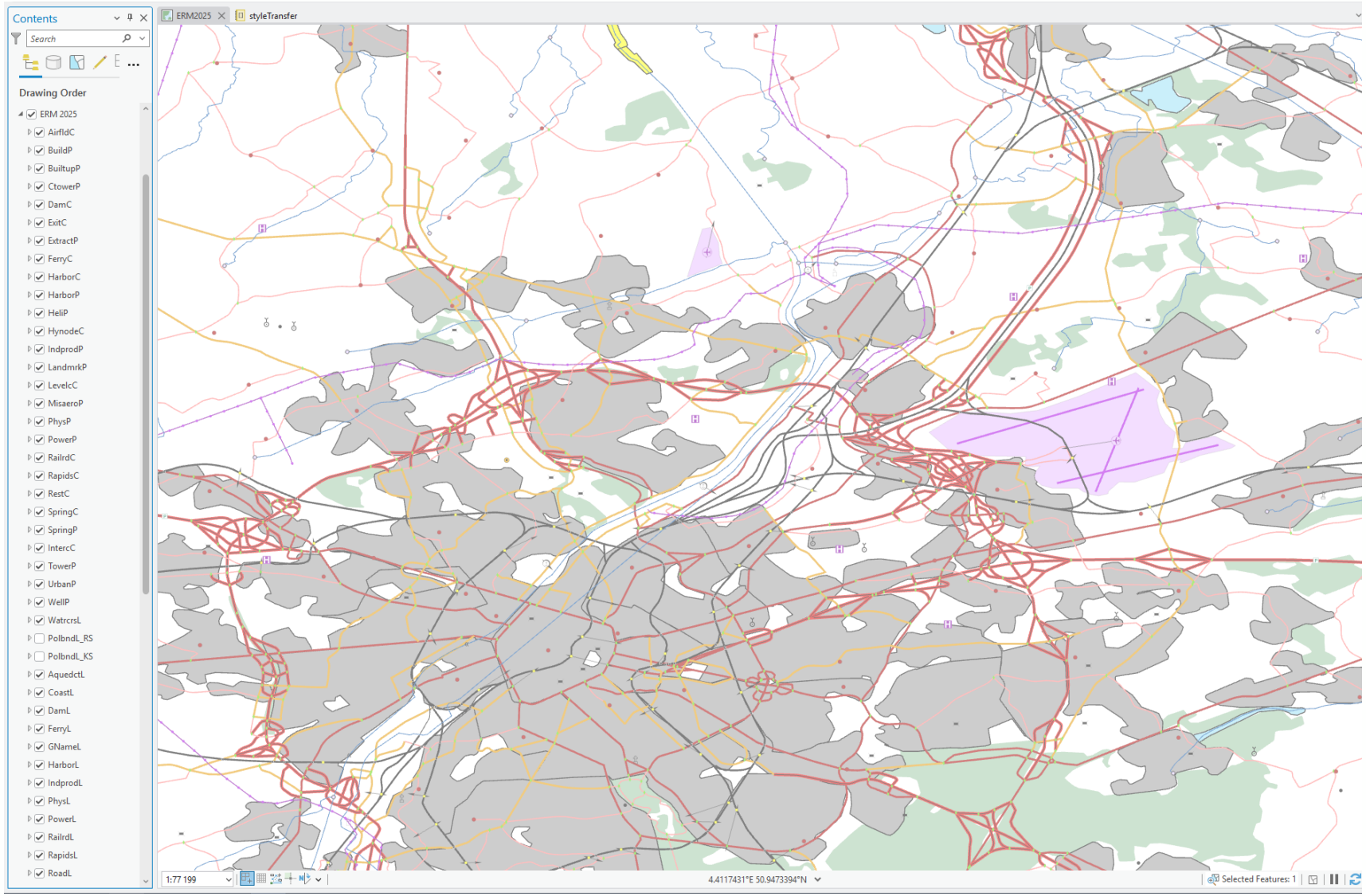
- Please check you data around coastlines (randomly) for accordance with our reference scale 1:100k and completeness in regards to islands (especially big ones)

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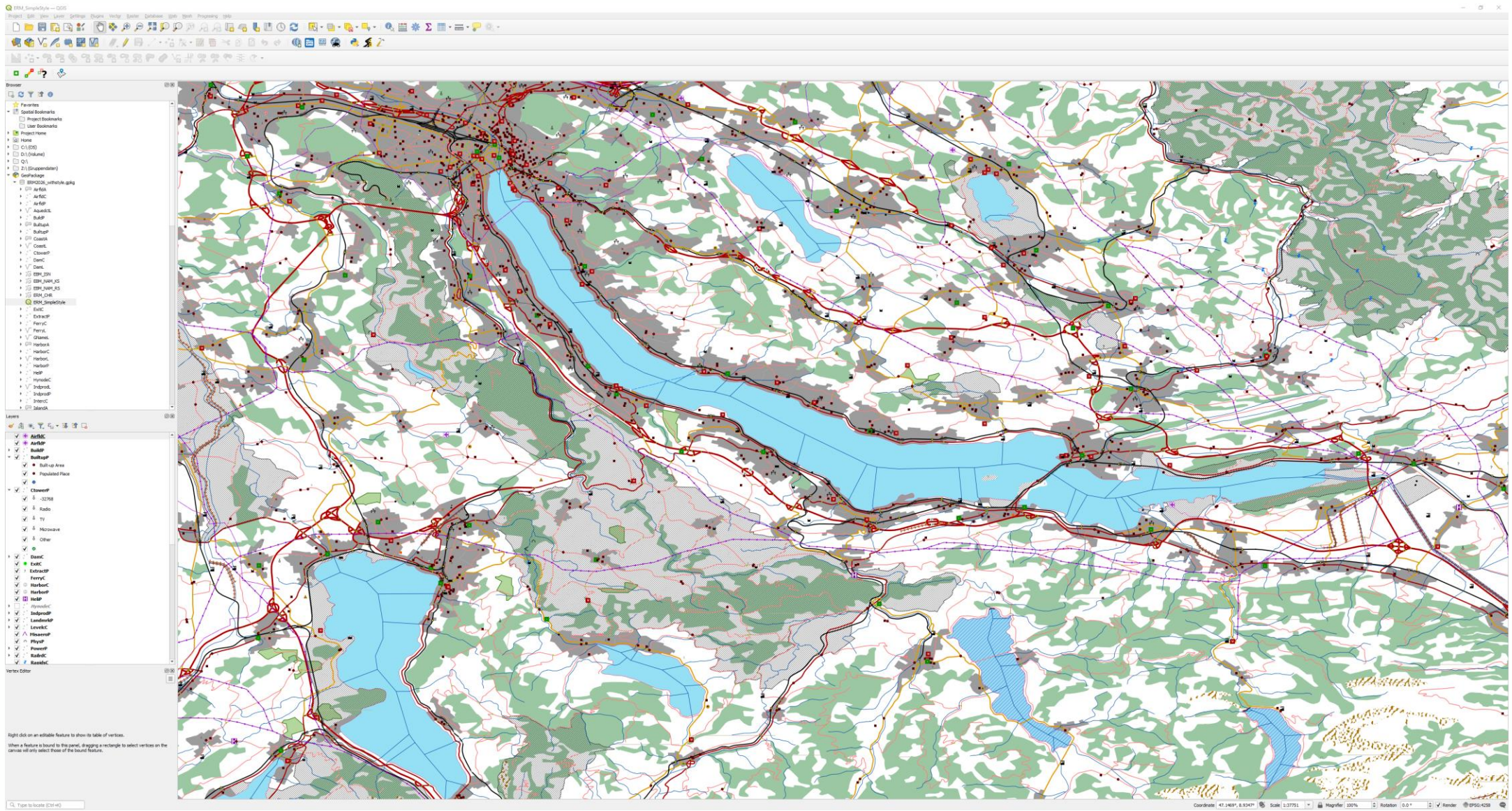
ERM



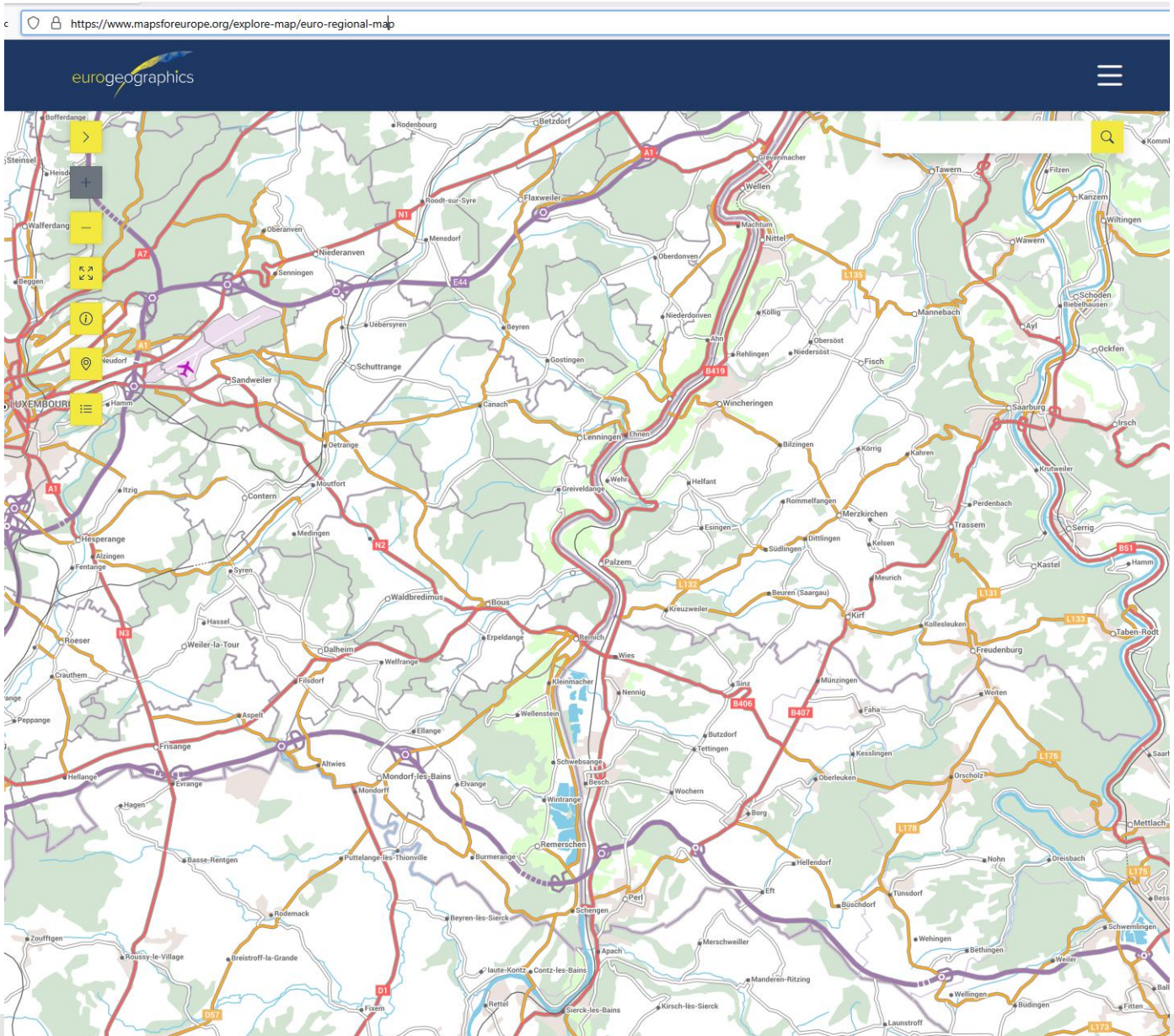
ArcGIS Pro Project - Styling



QGIS Geopackage with styling Information



Visual checks: WMS or Webportal



- A major use case of ERM is individual base mapping
- Visual checks reveal attribute information density in relation to mapping

Known problems of HYDRO & possibilities

- OGC compliance especially self-intersections
- Edge Matching especially WatrcrsA, WatrcrsL
- -> Check consistent usage of WatrcrsA with neighbouring countries and contact in doubt RC and PM
- Completeness (especially LakeresA, WatrcrsA)
- -> compare biggest rivers and waterbodies to your reference data or basemaps
- Coastlines & islands (consistency between EBM & ERM)
- -> see following

CoastL

Coastline/Shoreline BA010

Line between the land mass and the sea water.

Attached to the **sea** -> borderline of inland water area no coastline.

In the **tidal** seas -> mean (sea) high water line (**MHW**)

In the non-tidal normal water (= mean sea water **MSL**) like in the Mediterranean Sea

State the used definitions in the Metadata.

IslandA

Island area BA030

See for the detailed defininition in Tech guide.

surrounded by a coastline,

portrayed if their size exceeds 0.4 km^2

small islands can be portrayed as landmarks

all islands portrayed should be in BND and topological consistent

consider islands from BND > 0.4 km2 to portray

Other issues

- Please check for duplicates and multipart objects before submitting
- Consider watching Edge Matching video (link)
- Problems with ERM validator contact qmeg@kadaster.nl and ebrm@bkg.bund.de

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Open Gazetteer



Production 2026/2027: EBM and ERM

- Feedback from our name expert was shared with you
- He is continuously working on this feedback
- If something is relevant in your territory I will provide you with information
- Don‘t hesitate to contact us with questions



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Thank you for your attention

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