EGM Products

Update NUTS3 within EGM Project SALB

Angela Baker (EGHO)
Clément Godin (IGN-France)
Noémie Grémeaux (IGN-France)

Technical Meeting of EuroGeographics Data Producers
Zagreb, 6th November, 2018

Content

- Update on NUTS3 within EGM and SALB activity

- NUTS3 in EGM
  - New version
  - Technical solution

- Project SALB
  - What is it?
  - Where are we at?

Update on NUTS3 within EGM and SALB activity

NUTS3

- During 2017 and 2018, work started by Kadaster and then IGN France to create a new NUTS3 them for EGM
- Eurostat had asked for this, and we have also had enquiries from other customers of EGM
- Best practice is to include it within our generalisation process from EBM
  - Means we can control and manage this
- Make it available as part of EGM, under existing license
- Has been included in offer to Eurostat
- Expected delivery is 2019

Copyright © 2018 EuroGeographics

UN boundary information initiative

Harmonised European open data from official national sources is to be included in the United Nations Second Administrative Level Boundaries (SALB) initiative.

EuroGeographics, provided its 1:1 million scale topographic open dataset, EuroGlobalMap to assist the project's aim of compiling global administrative boundaries data from authoritative sources.

Mick Cory, presented the dataset to Mr Kyoung-Soo Eom, Chief, Geospatial Information Section, United Nations (right) and Mr Anthony O'Mullane, Director, Information and Communications Technology Division, Department of Field Support, United Nations GGIM7 in August.

Copyright © 2018 EuroGeographics

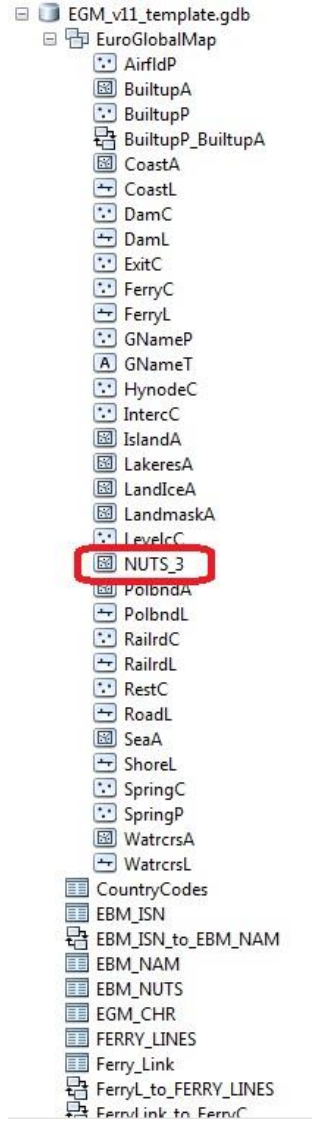
NUTS3

Update within EGM

Copyright © 2018 EuroGeographics

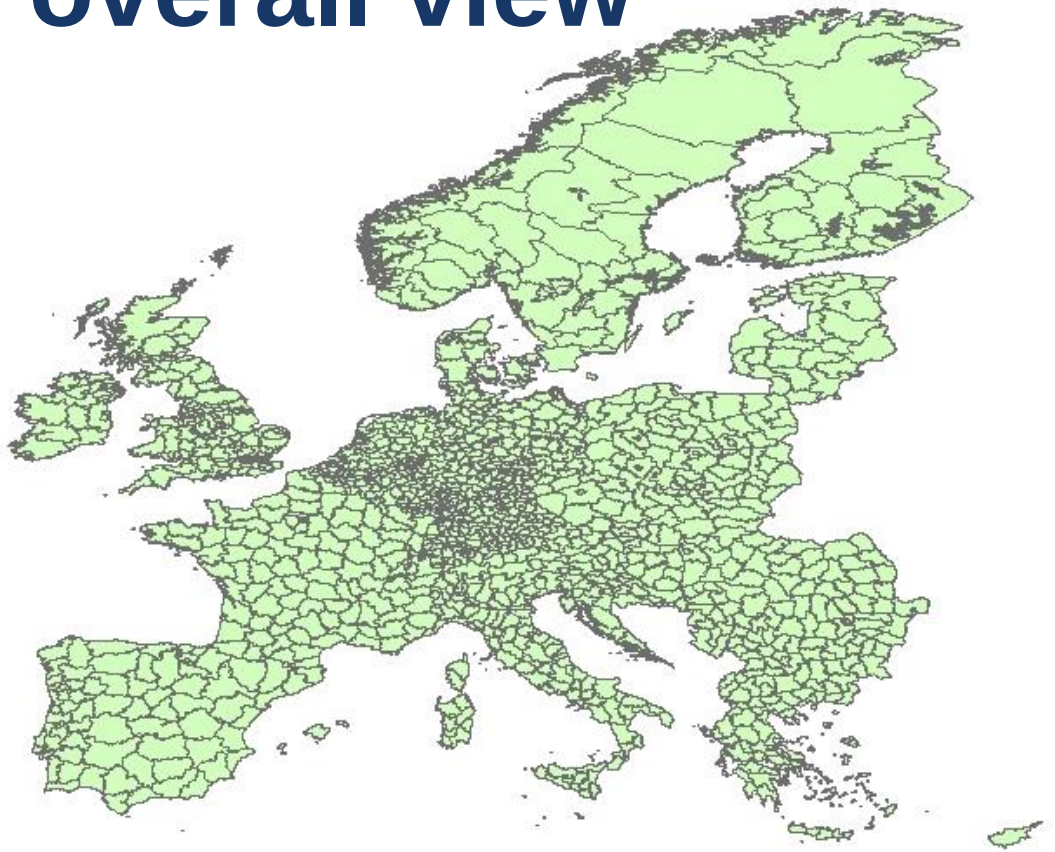
EGM v11.1: NUTS3

- Eurostat wants NUTS3 feature classes at different scales (from 1:1,000,000)
- EuroGeographics approach: incorporate a new feature class in EGM
- October 2018: a prototype is produced
- End 2018: release of a new version of EGM (v11.1)



Prototype of EGM.NUTS3: overall view

- Borders consistent with PolbndL
- Scale 1:1,000,000
- ± 3,000 polygons
- Same attributes than EBM.NUTS3



OBJECTID *	Shape *	inspireId	beginLifesp	ICC	NUTS_CODE	NUTS_LABEL	TAA
12628	Polygone	_EG.EBM:NUTS3.ES130	<Nul>	Spain	ES130	Cantabria	Land area
12629	Polygone	_EG.EBM:NUTS3.ES114	<Nul>	Spain	ES114	Pontevedra	Land area
12630	Polygone	_EG.EBM:NUTS3.ES120	<Nul>	Spain	ES120	Asturias	Land area
12631	Polygone	_EG.EBM:NUTS3.ES112	<Nul>	Spain	ES112	Lugo	Land area
12632	Polygone	_EG.EBM:NUTS3.ES111	<Nul>	Spain	ES111	A Coruña	Land area
12633	Polygone	_EG.EBM:NUTS3.FI200	<Nul>	Finland	FI200	Åland	Land area
12634	Polygone	_EG.EBM:NUTS3.FI200	<Nul>	Finland	FI200	Åland	Land area
12635	Polygone	_EG.EBM:NUTS3.FI200	<Nul>	Finland	FI200	Åland	Land area
12636	Polygone	_EG.EBM:NUTS3.FI200	<Nul>	Finland	FI200	Åland	Land area
12637	Polygone	_EG.EBM:NUTS3.FI200	<Nul>	Finland	FI200	Åland	Land area
12638	Polygone	_EG.EBM:NUTS3.FI200	<Nul>	Finland	FI200	Åland	Land area
12639	Polygone	_EG.EBM:NUTS3.FI1C1	<Nul>	Finland	FI1C1	Varsinais-Suomi	Land area
12640	Polygone	EG.EBM:NUTS3.FI200	<Nul>	Finland	FI200	Åland	Land area

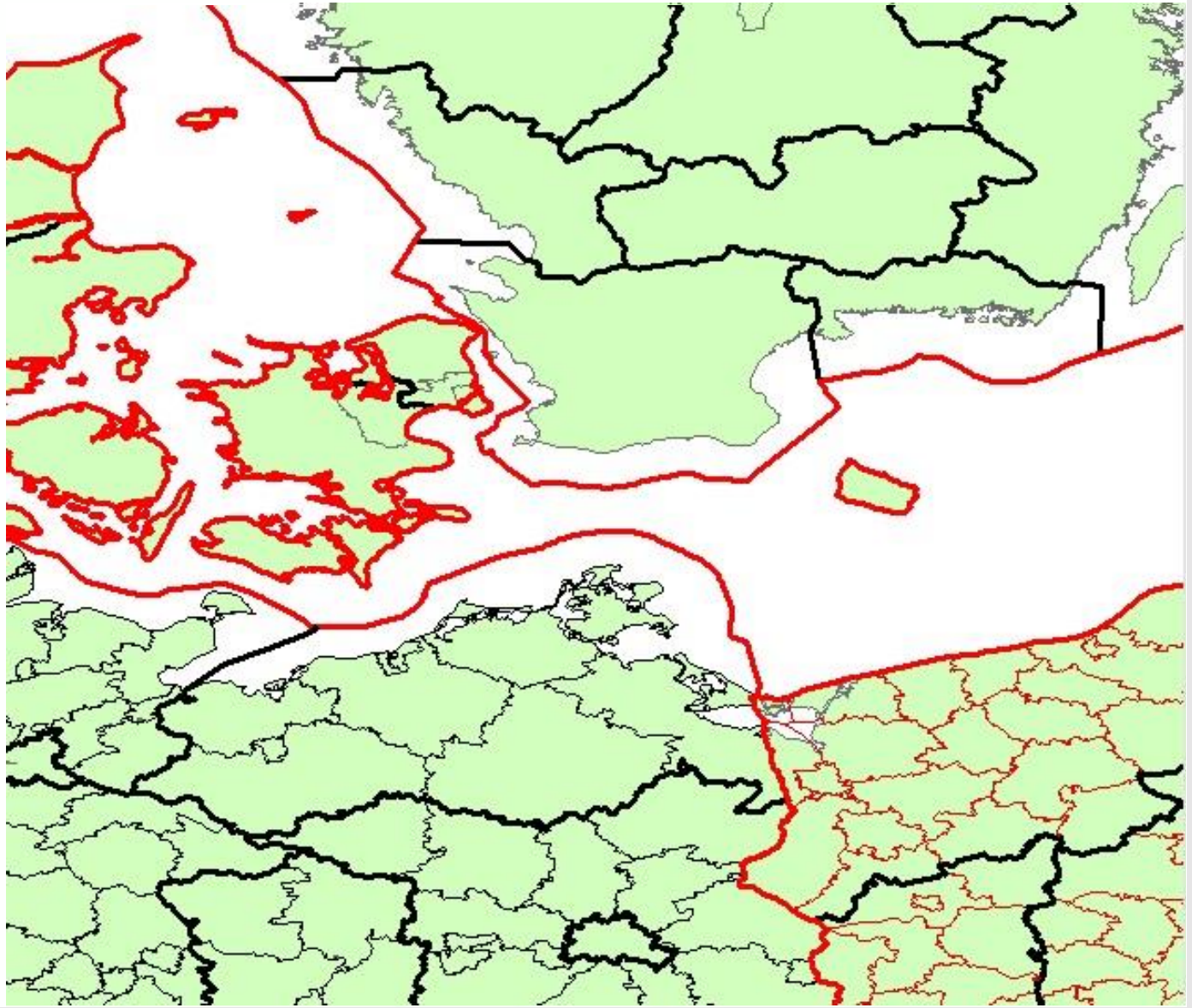
Copyright © 2018 EuroGeographics

Detail

Comparison with PolbndA

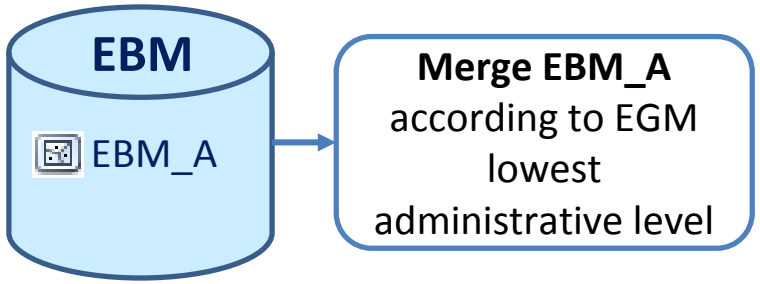
Copyright © 2018 EuroGeographics

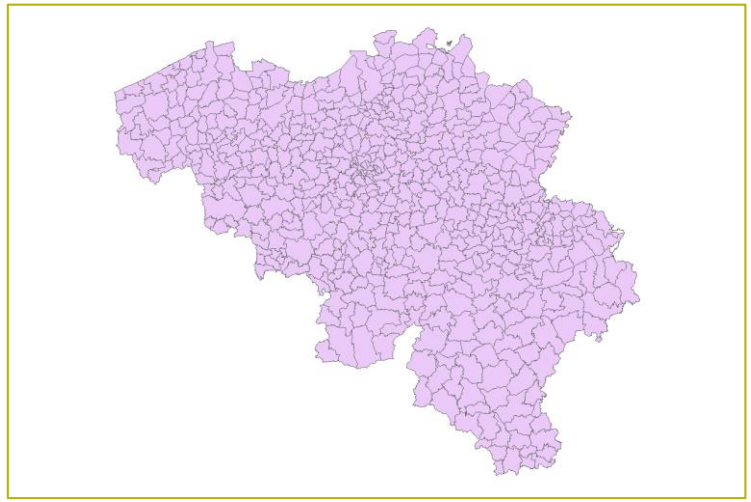
Consistency with PolbndL

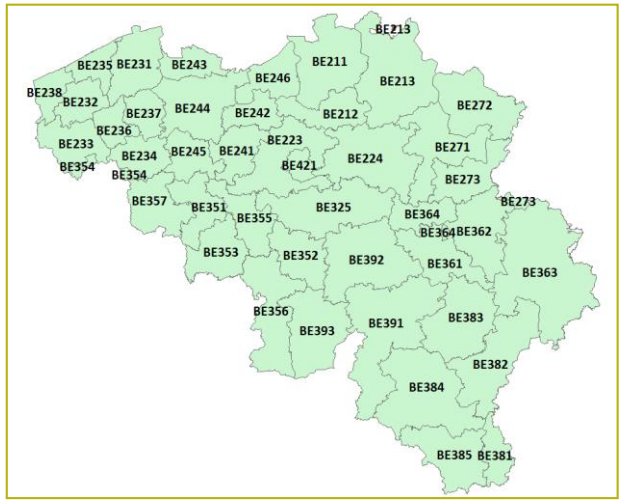


Copyright © 2018 EuroGeographics

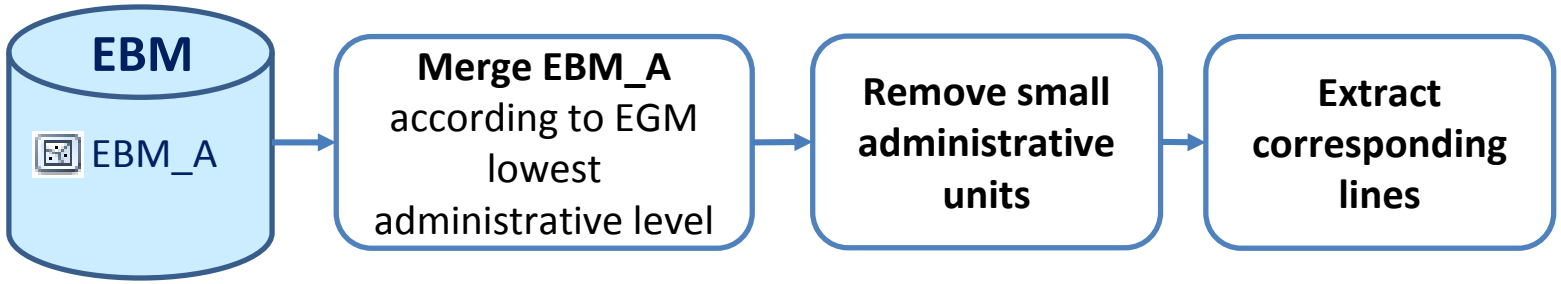
EBM to EGM generalization process – Step 1

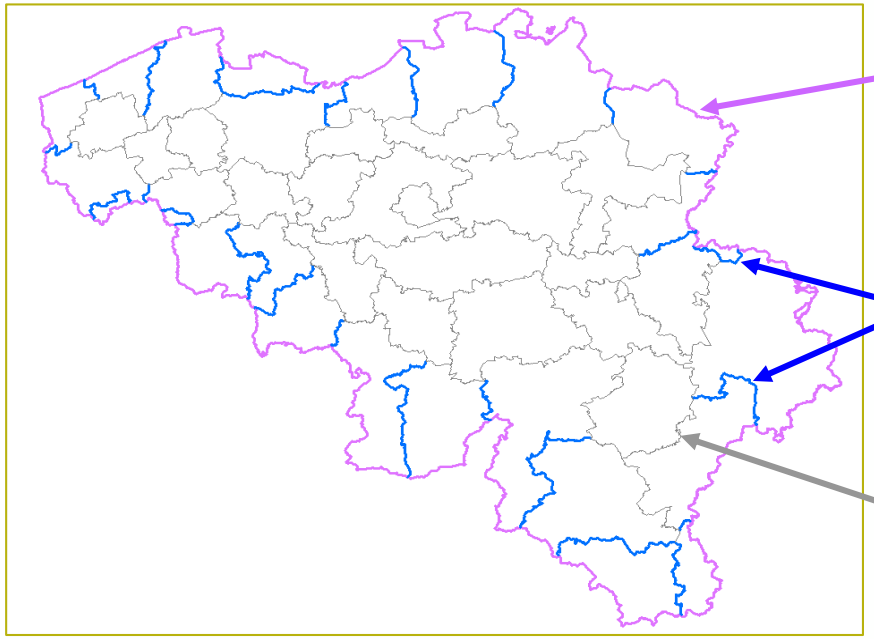






EBM to EGM generalization process – Step 1



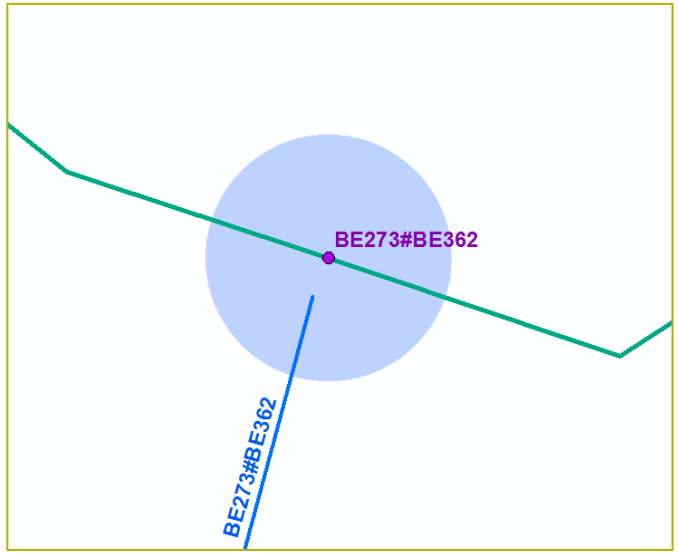


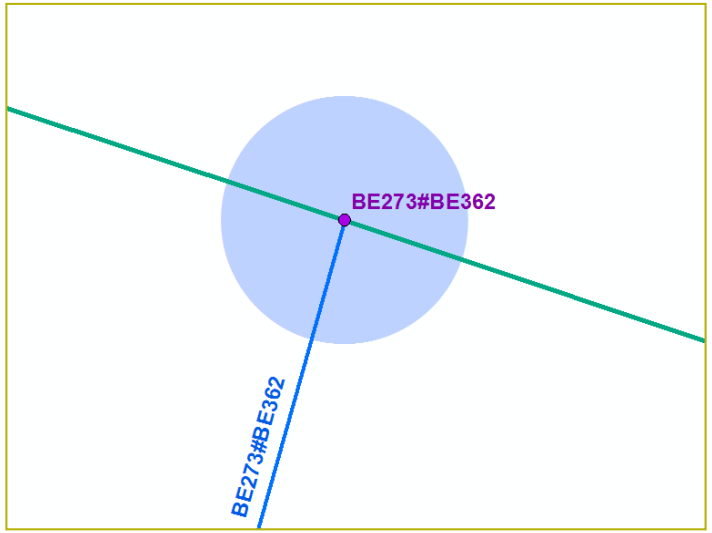
EBM international boundary
→ to be replaced with EGM boundary

Edge-matching features
→ with identifier
→ to be edge-matched and generalized

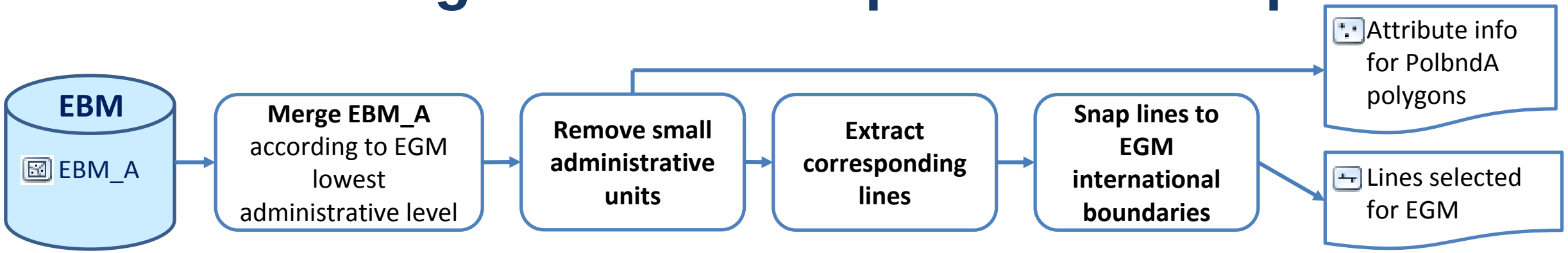
National boundaries
→ to be generalized

EBM to EGM generalization process – Step 1

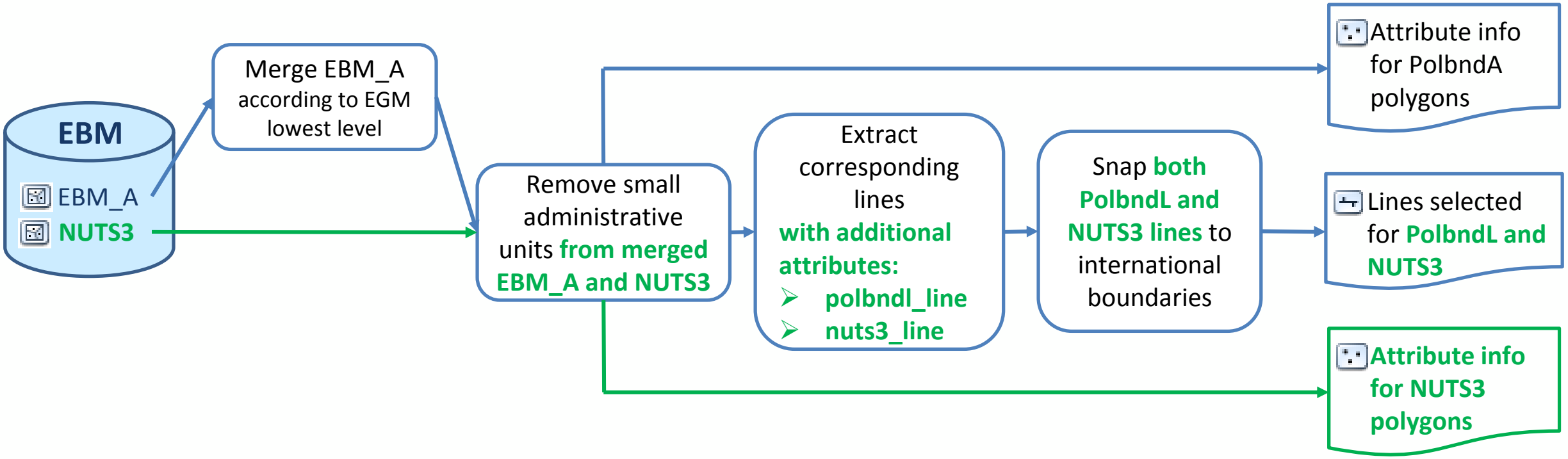




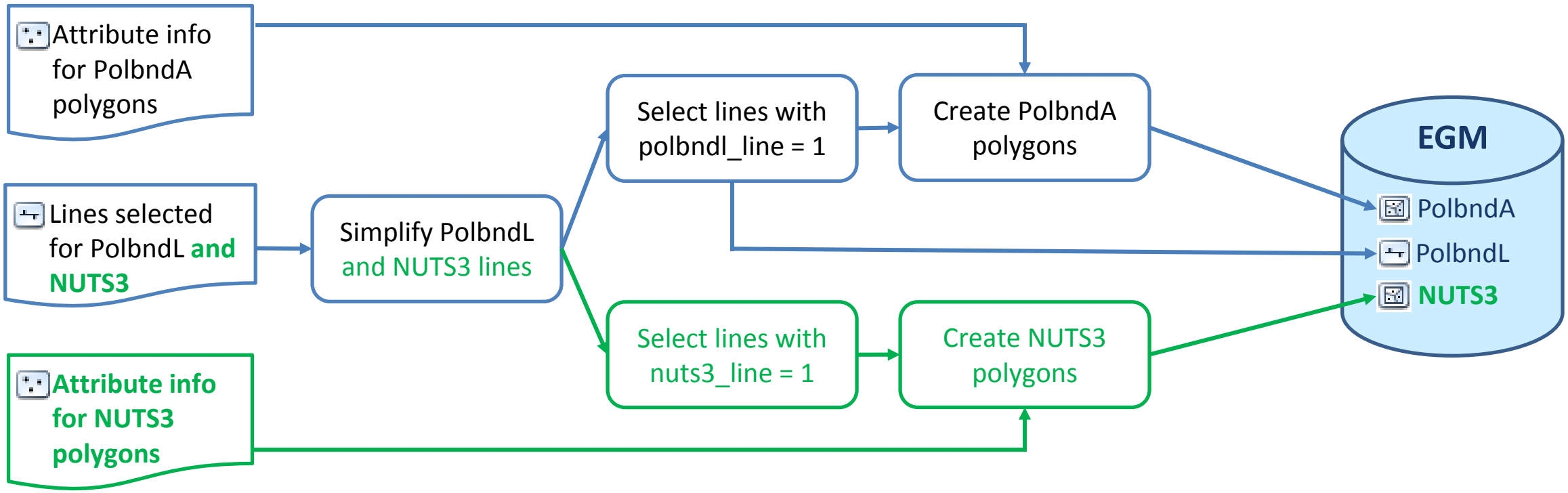
EBM to EGM generalization process – Step 1



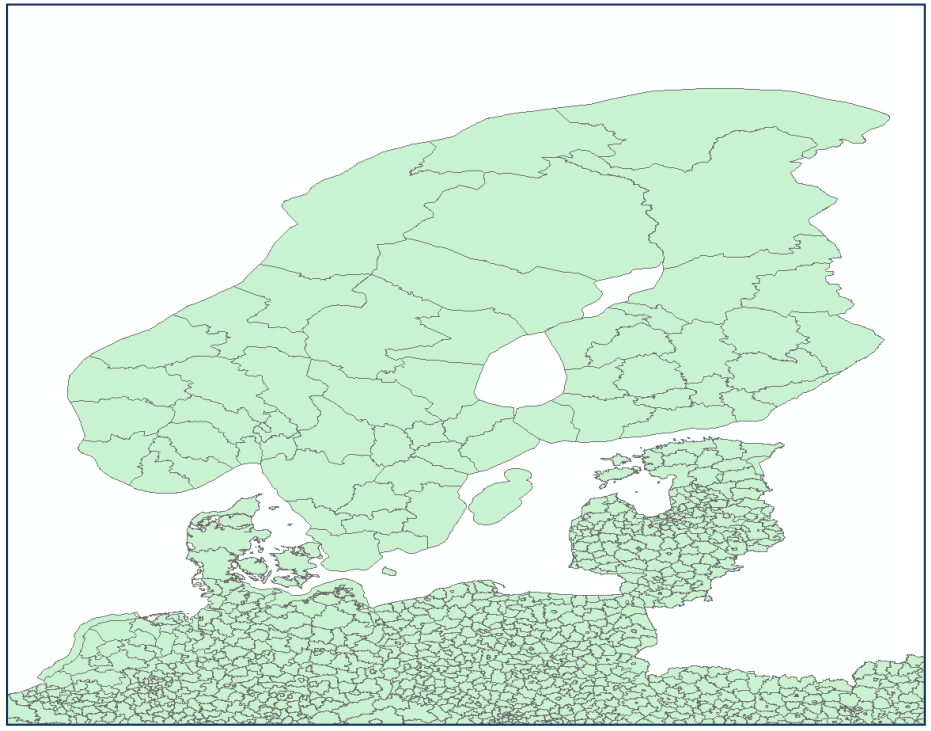
Integration of NUTS3 into Step 1



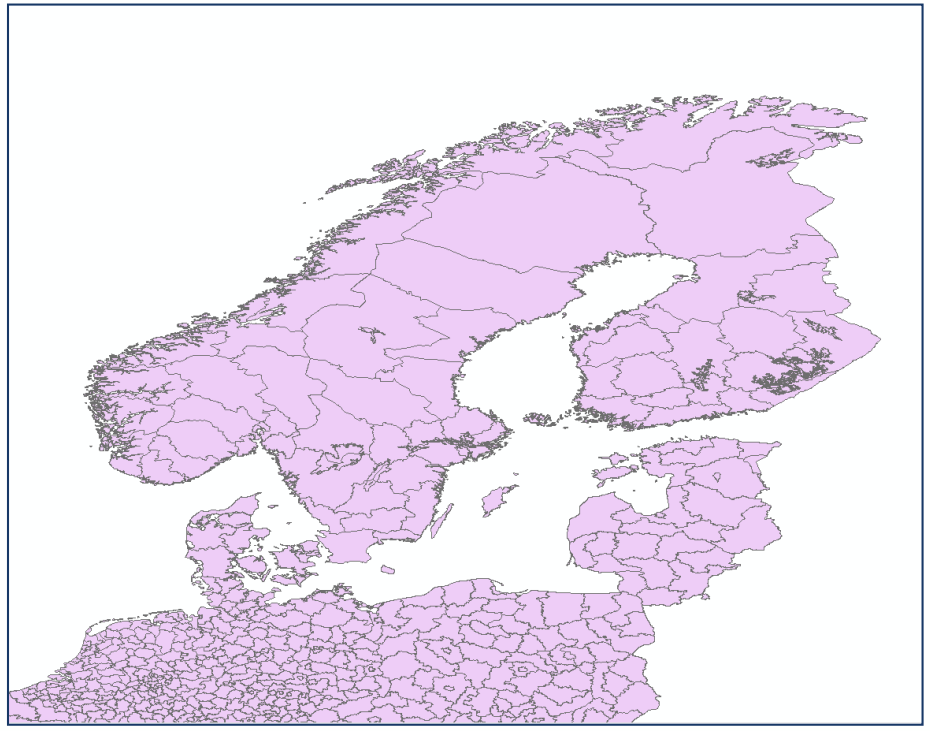
EBM to EGM generalization process – Step 2



Results



PolbndA



NUTS3

- Total workload: approximately 15 days (including testing and validation).
- Some slight adjustments still needed.
- EGM v11.1 should be ready by the end of November.

SALB project

Another EGM Product

Comparability EG-SALB

To be clear about what we call **first** and **second level** in this presentation

Description	Examples	EBM	EG Id	SALB Id
National level	-	AdministrativeUnit_1	SHN0	ISO3CD
First level	“Bundesland” (AT) “Regione” (IT) “Province” (ND)	AdministrativeUnit_2	SHN1	ADM1CD
Second level	“Bezirkshauptmannschaft” (AT) “Provincia”/”Città Metropolitana” (IT) ? (ND)	AdministrativeUnit_3	SHN2	ADM2CD

Copyright © 2018 EuroGeographics

Specific cases

- Germany
  - Second level (*Regierungsbezirk*) incomplete
  - ➢ Using the third level (*Landkreis* and *kreisfreie Stadt*) instead
- Northern Ireland
  - National and first levels (*Province*) identical
  - No third level
  - ➢ Using the fourth level (*Local government district*) instead
- Serbia
  - First (*Autonomna pokrajina*) and third levels (*Grad*) incomplete
- Switzerland
  - Second level (*Bezirk* and *Wahlkreis*) incomplete

Copyright © 2018 EuroGeographics

Which countries meet SALB requirements?

Category	%	SALB
Lowest level in EGM is the second level or lower AT, BE, DE, ES, FI, FR, GB, GR, HU, IE, IT, LT, ND, PL, PT, RS, SK, UA	33	✓
Lowest level in EGM is higher than the second level AL, BG, CH, CY, CZ, DK, EE, FO, HR, LI, LU, LV, MD, MK, NL, NO, RO, SE, SI	35	✗
Only national level in EGM AD, GG, GI, GL, IM, IS, JE, KS, MC, MT, SM, VA	22	✓
No administrative level in EBM (and EGM) BA, BY, GE, ME, RU, TR	10	✓

CZ will be in this categorie from EGM v11.1

EuroGeographics' position: we don't add extra levels in EGM

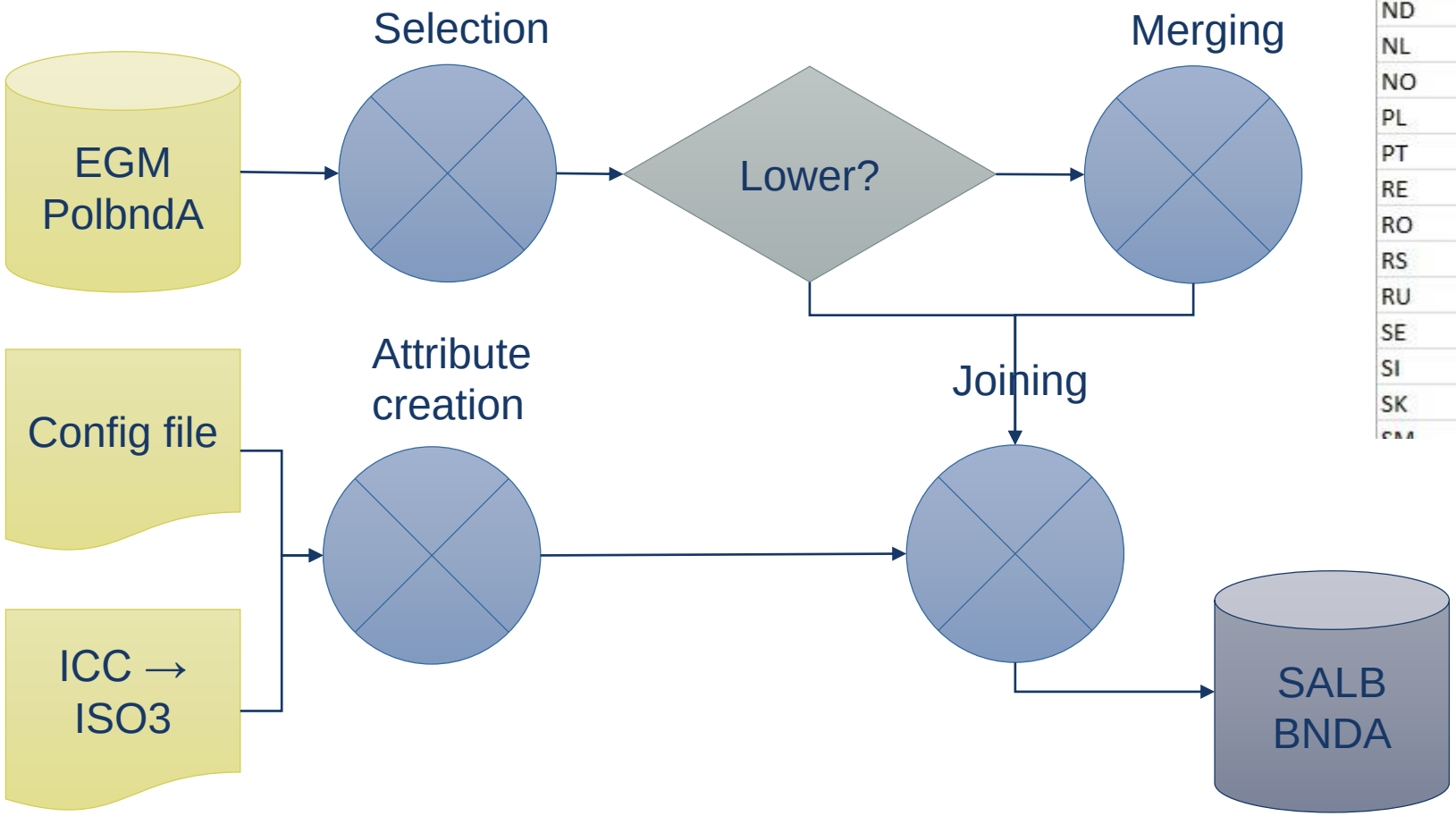
Copyright © 2018 EuroGeographics

Short description of the SALB product

- BNDL (administrative boundary)
  - ISO3CD (ISO country code 3)
  - BDYTYP (type)
- BNDA (administrative unit)
  - ISO3CD (ISO country code 3)
  - ADM1NM (administrative unit level 1 name)
  - ADM1CD (administrative unit level 1 code)
  - ADM2NM (administrative unit level 2 name)
  - ADM2CD (administrative unit level 2 code)
  - DATSOR (date of source)

Copyright © 2018 EuroGeographics

Studied workflow



ICC	ISO3CD	Name
MK	MKD	The Former Yugoslav Republic Of Macedonia
MQ	MTQ	Martinique
MT	MLT	Malta
ND	GBR	Northern Ireland
NL	NLD	The Netherlands
NO	NOR	Norway
PL	POL	Poland
PT	PRT	Portugal
RE	REU	Réunion
RO	ROU	Romania
RS	SRB	Serbia
RU	RUS	Russian Federation
SE	SWE	Sweden
SI	SVN	Slovenia
SK	SVK	Slovakia

ISO-3166 alpha 3 country code

Copyright © 2018 EuroGeographics

Identified problems

- The SHNs give a national number; the ADMxCD is also the ISO code for the representation of names of the subdivisions of the countries (ISO 3166-2).
  - How do convert the SHNs into those?
- How to deal with in-dispute areas and *terra nullius*?
- The names in Latin alphabet follow another transcription rule.

Language	National form (NAMNx)	Form without diacritics (NAMAx)	Romanised form (ADMxNM)
English	Sutton	Sutton	Sutton
French	Midi-Pyrénées	Midi-Pyrenees	Midi-Pyrénées
German	Köln	Koln	Köln
Icelandic	Rangárþing eystra	Rangarthing eystra	Rangárþing eystra
Greek	Δυτικής Ελλάδας	Dytikis Elladas	Dytikís Elládas
Bulgarian	Търговище	Targovishte	Tărgovište

Copyright © 2018 EuroGeographics

What remains to do

- Get in touch with the SALB team at the UN
- Produce another prototype

➢ Keep in mind the UN use our data!

Copyright © 2018 EuroGeographics

Thank you for your attention

Gracias Благодара Bedankt Teşekkürler Merci Go raibh maith agat

Tack Dziękuję

Danke Grazie

Tak Ačiū

Hvala Děkuji

Takk Tänan

Obrigado გმადლობთ

Ďakujem Grazzi

Paldies Ευχαριστώ Thanks Хвала Kiitos Köszönöm Mulțumesc

Contact

Noémie GRÉMEAUX
Clément GODIN

IGN – Institut national de l'information géographique et forestière

73, avenue de Paris

94165 Saint-Mandé Cedex
France

✉ EGM@ign.fr

Copyright © 2018 EuroGeographics