EuroBoundaryMap
Quality Issues

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Technical Meeting of the EG Data Producers, 31.3.2015

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a) LAU/NUTS matching

- Correct matching with statistical codes is a main feature of EBM

- National EBM updates will only match with statistical data if both refer to same date → **01.01.2015**

- A number of issues are left in EBM v9.1

  → Please review *EBM_v91_LAU-NUTS-Matching.pdf*

  → Please try to clarify issues in cooperation with your National Statistical Institute
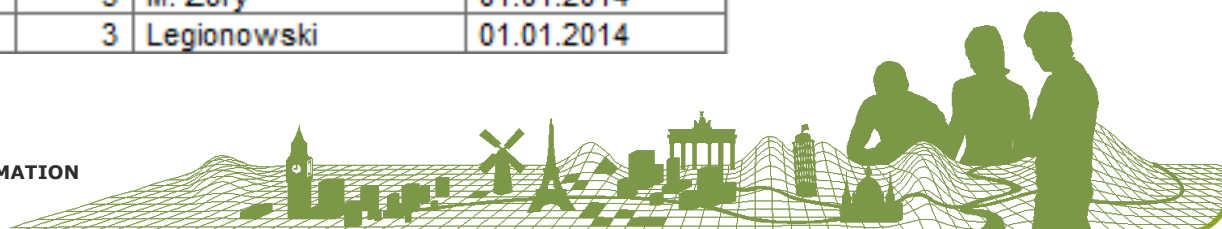
- EBM v10.0 will serve only NUTS 2013

→ *PDF*

b) Effective Date

- Issue:
  - Attribute effectiveDate is not populated correct
- Definition (EBM Specification):
  - Official entry into force date of the administrative unit
  - Effective date is attributed, at least, for administrative units changed after 01.01.2010
- Importance:
  - To track administrative changes

EBM_NAM

	ICC	SHN *	USE	NAMN	effectiveDate
	PL	PL2410000	3	Pszczyński	01.01.2014
	PL	PL2473000	3	M. Rybnik	01.01.2014
	PL	PL2477000	3	M. Tychy	01.01.2014
	PL	PL2479000	3	M. Żory	01.01.2014
	PL	PL1408000	3	Legionowski	01.01.2014

b) Effective Date – fictitious example

- 27.04.2014: council of commune A decides to merge with B
- 02.05.2014: council of commune B decides to merge with A
- 15.06.2014: national authority confirms the administrative change
- 31.08.2014: election of council and mayor for new commune A+B
- 01.10.2014: new commune A+B starts
- 03.10.2014: first working day of mayor
- 21.01.2015: NMCA integrates change into the national database
- 15.05.2015: national EBM contribution derived from source data

- What is the effective date?   **01.10.2014**
- Is this change valid for EBM v10.0?   **Yes** (reference date 1.1.15)
- What is beginLifespanVersion?   **21.01.2015** (if maintained by NMCA)

b) Effective Date – types of update

Types of update	Examples	Effective date
Administrative change	Split or merge of communes, change of the official name, changes on upper administrative level, change of national coding system	Changed
Corrections	Spelling of names, improvement of coastline	Unchanged
Cartographic changes	Alignment of boundaries with other topographic features	Unchanged

c) Names vs thematic identifiers

- Issue:
  - Names are used to link additional data, e.g. population figures
- Shortcoming:
  - Names are not unique
  - Table EBM_NAM contains the names of administrative units of all administrative levels
- Solution:
  - Use unique thematic identifiers for linking, wherever possible

    EBM ➔ **SHN**

    ➔ ArcMap (PL)

EuroGeographics

CONNECTING YOU TO THE
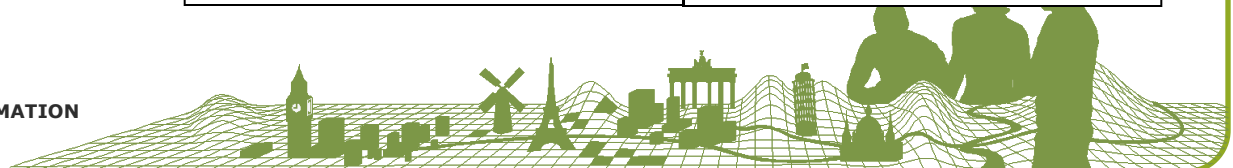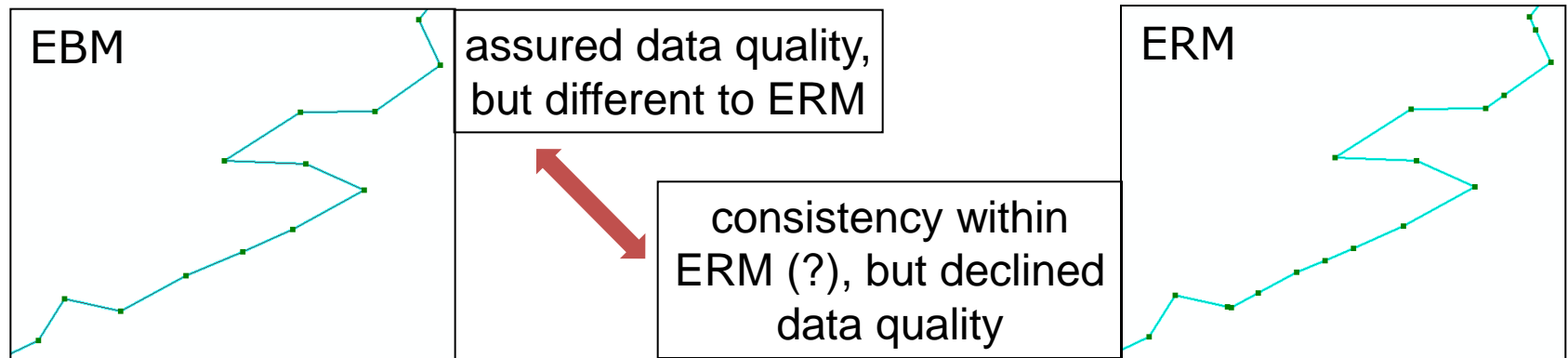**AUTHORITATIVE GEO-INFORMATION
FRAMEWORK** FOR EUROPE

d) Consistency EBM – ERM coastline

- Benefits:
  - Simplifying production workflow
  - Users will be served with the same geometry
  - Cross theme analysis possible
- Challenges:
  - Coastlines are changing (environmental and man-made influences)
  - No neighbouring NMCAs concerned → NMCAs don't restrict themselves to keep coastlines stable

d) Consistency EBM – ERM coastline

- Status:
  - Most coastlines currently different in EBM/ERM (at least different set of vertices)
  - A number of ERM coastlines in ERM are not of satisfying data quality (Violating the EBM/ERM requirements on generalisation/ spatial resolution)

- Dilemma:

EBM

assured data quality, but different to ERM

consistency within ERM (?), but declined data quality

ERM

d) Consistency EBM – ERM coastline

- NMCAs are asked to propose a common coastline for EBM/ERM which is compliant with the specifications in terms of geometrical resolution and generalisation.

- If adopted by PMT, NMCAs will get support how to match the EBM/ERM data to the coastline.
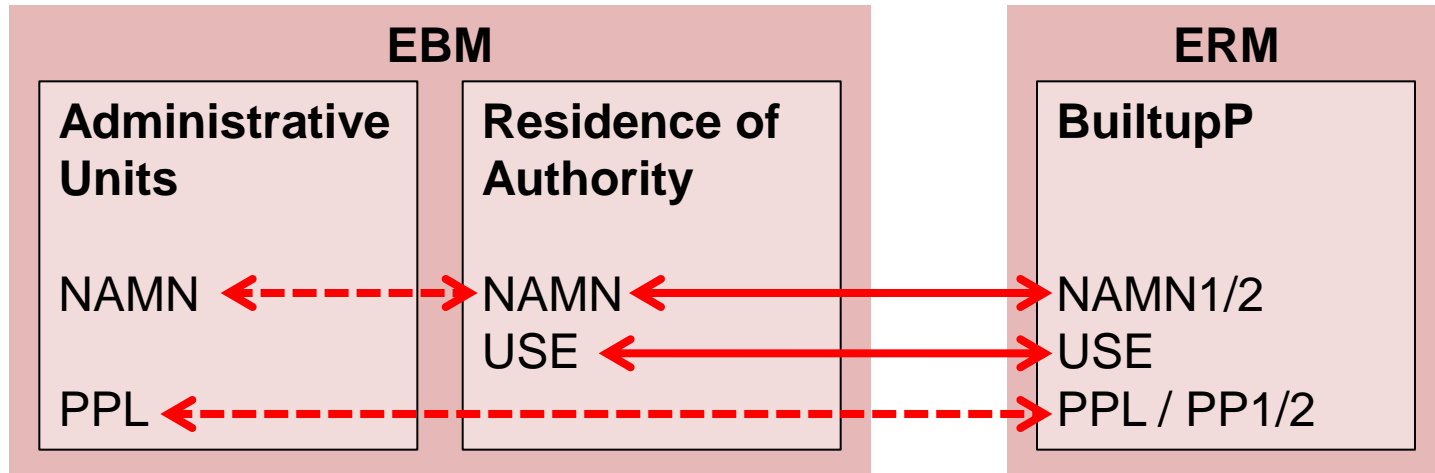
→ ArcMap

e) Consistency EBM – ERM theme POP

- Issue:
  - There's a strong correlation between EBM and ERM-POP → but a lot of discrepancies in the actual EBM/ERM data
- Shortcomings:
  - Names are different (spelling)
  - BuiltupA not compliant with administrative units
  - PopulatedPlaceID not unique
  - Attribute USE (BuiltupP) wrong
- Solution:
  - Update ERM-POP: 2015 by PMT and/or 2016 by NMCAs
  - Update EBM (Residence of Authority)

e) Consistency EBM – ERM theme POP

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- EBM ResidenceOfAuthority
  - Subset of ERM BuiltupP
  - Attribute USE correct (more or less)
- ERM BuiltupP
  - A lot of bugs for attribute USE
  - Inconsistencies explained on Producer Meeting 2014 and reported in a document
  - → A lot of inconsistencies still remaining in ERM v8
  - → Consistent workflow not yet decided by PMT

→ ArcMap (AT)

f) Population figures

- User demands:
  - Exact population figures (PPL) – PP1/PP2 not sufficient ('old school cartography')
  - Actual population figures (at least Census 2011)

- Update population figures in table EBM_NAM:
  - Official population figures published for all (?) countries
  - Please get in contact with your National Statistical Institute
  - At least, web search for official census 2011 data