

# ELF International Boundaries

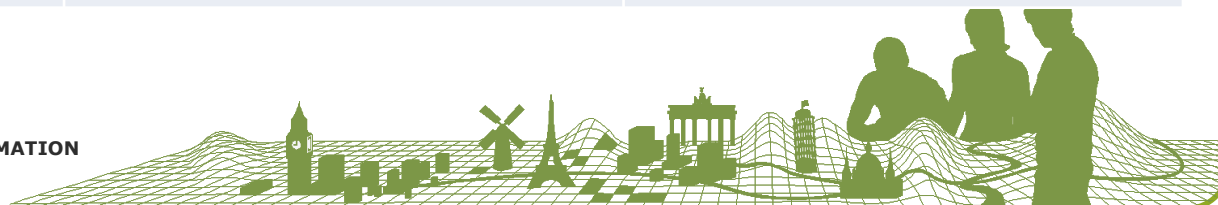
Marcus Brühl / BKG

Technical Meeting of the EG Data Producers, 31.3.2015

















# ELF International Boundaries

Level of detail	Scale	Type of data	Realisation
Treaty level	cadastre scale	high precision coordinates of boundary points and lines	<b>SBE project</b> → long-term
Master data level	(1:10') to 1:50'	large scale boundary lines from national basic cadastral or topographic database	<b>ELF IB Master</b>
Regional level	1:100' to 1:250'	agreed state boundaries for use at medium scale	<b>ELF IB Regional</b> → EBM/ERM
Global level	1:500' to 1:2 M	generalised version	<b>ELF IB Global</b> → EGM



# ELF International Boundaries

- [-]  DVD
  - [+]  EBM\_v10\_Update
  - [+]  EBM\_v9-1\_Release
  - [-]  ELF\_InternationalBoundaries
    - [-]  ELF\_IB\_Global
      - [+]  ELF\_IB\_Global\_v1.gdb → to be used for EGM
      -  INFORMATION.txt
    - [-]  ELF\_IB\_Master
      - [+]  ELF\_IB\_Master.gdb → in development
      - [+]  ELF\_IB\_Master\_Status.xlsx
    - [-]  ELF\_IB\_Regional\_EBM-ERM
      - [+]  ELF\_IB\_Regional\_proposalAtlantic.gdb →
      - [+]  ELF\_IB\_Regional\_v3.gdb → to be discussed with IS, NO, DK, GB, NL, BE, DE
      - [+]  ELF\_IB\_Regional\_Status.xls →

*Will be provided also on  
ERM Information Repository*

**to be used for  
EBM/ERM**



# ELF IB Global

- Renewed international boundaries (and coastlines) for Global LoD
- Generalised from ELF IB Regional by IGN-F
- Will be implemented in EGM



# ELF IB Master

- In development in ELF project
- Responsibility for ELF IB Master database: Brühl/BKG
- Up to now only provided by few countries

→ Please encourage the person in charge at your NMCA to provide the International Boundaries in Master LoD for the ELF project.









# ELF IB Regional

- New version ELF IB Regional v3
- Has to be used for EBM/ERM update
- Any request for update of ELF IB Regional has to be addressed to BKG

[-]  ELF\_IB\_Regional\_v3.gdb

[-]  Geometry

 Coastline_SeaLimit_EBM	→	mostly unsolved
 Coastline_SeaLimit_ERM	→	
 ConnectingFeaturePoint	→	updated
 DirectoryLine		
 InternationalBoundary	→	nearly unchanged
 MaritimeBoundary	→	

few changes

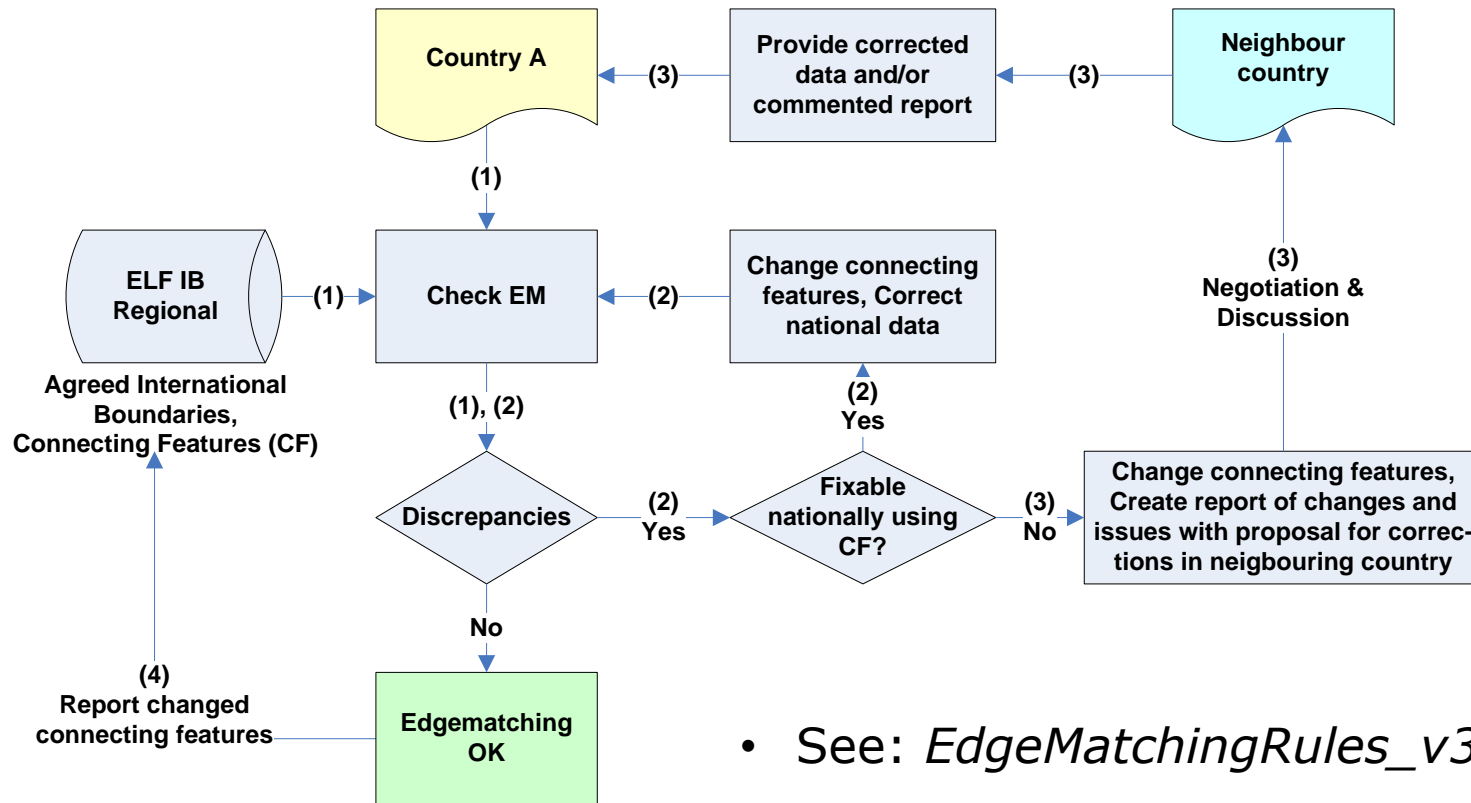


# Connecting Features

- Thanks for your updates!
  - Clarified for Central Europe
  - Final review for rest of Europe missing
- Please review/correct/append
- Please match your updates (2015: ERM HYDRO) to the connecting features
- Please use connecting features for discussions on edge matching with neighbouring countries



# Edge matching using connecting features



• See: *EdgeMatchingRules\_v31.doc*

→ ArcMap (BE)





# Edge matching tools

## a) ELF Geo-tools

- To be developed during ELF project
- Candidates: 1spatial, ESRI, TU Delft
- Please see ELF webinar on Edge Matching

## b) EM Tool BKG

- Not mature enough to be shared
- Will be run by BKG on request

## c) ERM C# Tools (EM check)

- Already available, not using concept of connecting features

## d) Other EM tools

- ..



# Directory lines vs maritime boundaries

- Directory lines = artificial lines, needed to split the ERM data on the sea into country datasets
- Idea: replace these artificial lines by something more meaningful → maritime boundaries of the exclusive economic zones (EEZ)
  - EEZ spread up to 200 nautical miles into the sea
  - EEZ CY already integrated
  - Valid EEZ boundaries available: IS, NO, NL, DE
- Idea: collect a complete coverage of EEZ boundaries in the future. This will allow us to offer not only boundaries on land, but additional different types of maritime boundaries.



# Directory lines vs maritime boundaries

- ELF\_IB\_Regional\_proposalAtlantic  
→ to be discussed with IS, NO, DK, GB, NL, BE, DE

→ ArcMap



# Directory lines vs maritime boundaries

- Consequences for EBM: no
- Consequences for ERM:
  - SeaA: created automatically by PMT
  - FerryL: have to be matched on project management level
- Workload NMCAAs: no

