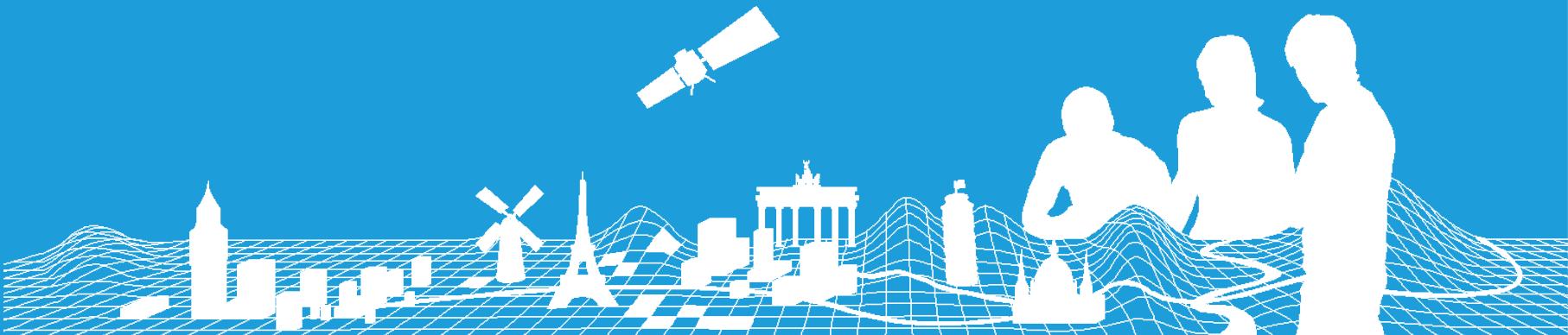


Edge Matching

Regine Elling, Marcus Brühl / BKG
EG Producer Meeting, Amsterdam
14th/15th September 2016



Content

- (1) Status of international boundaries (ELF IB)
- (2) Usage of connecting features
- (3) Features located on the international boundary



(1) Status of international boundaries (ELF IB)

Unchanged (see webinar 1.3.2016):

- Valid version: **ELF_IB_Regional_v4.gdb**
→ To be used for EBM/ERM
- NMCAAs are not allowed to make any changes on these boundaries on their own.
- In case of issues (international boundaries and/or connecting features)
→ Contact ebrm@bkg.bund.de + Marcus Brühl



(1) Status of international boundaries (ELF IB)

New:

- Connecting features points are not necessarily located on a vertex of the international boundary. Connecting features points just have to be snapped properly to the international boundary.
- If you change connecting features
→ Don't create new vertices on the boundary!



(1) Status of international boundaries (ELF IB)

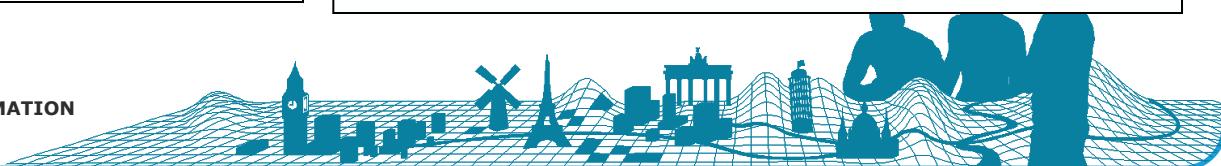
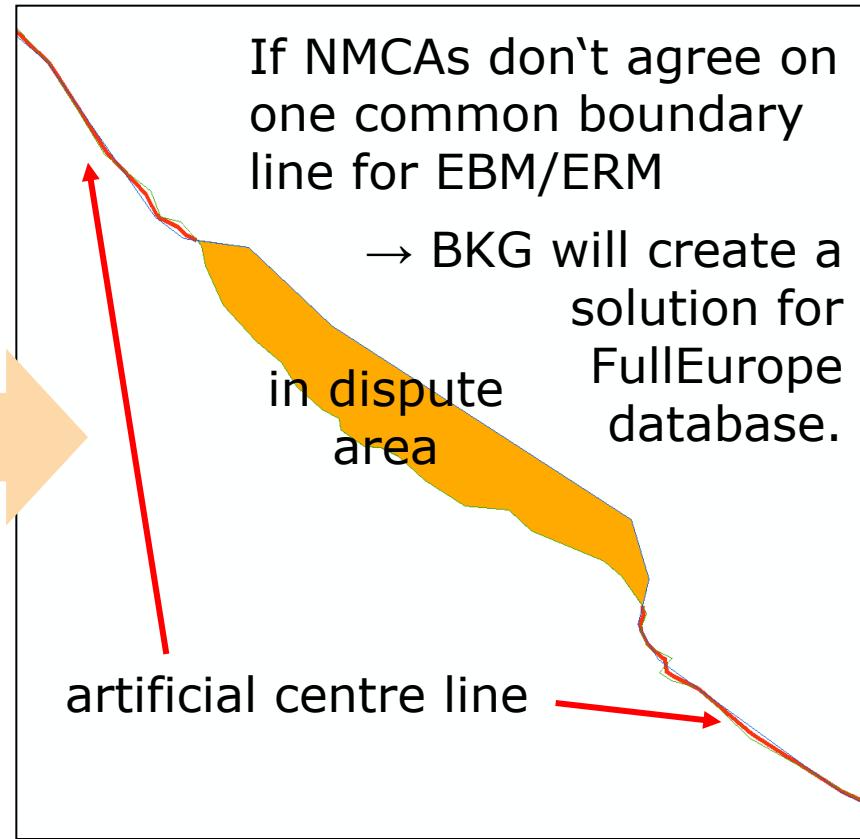
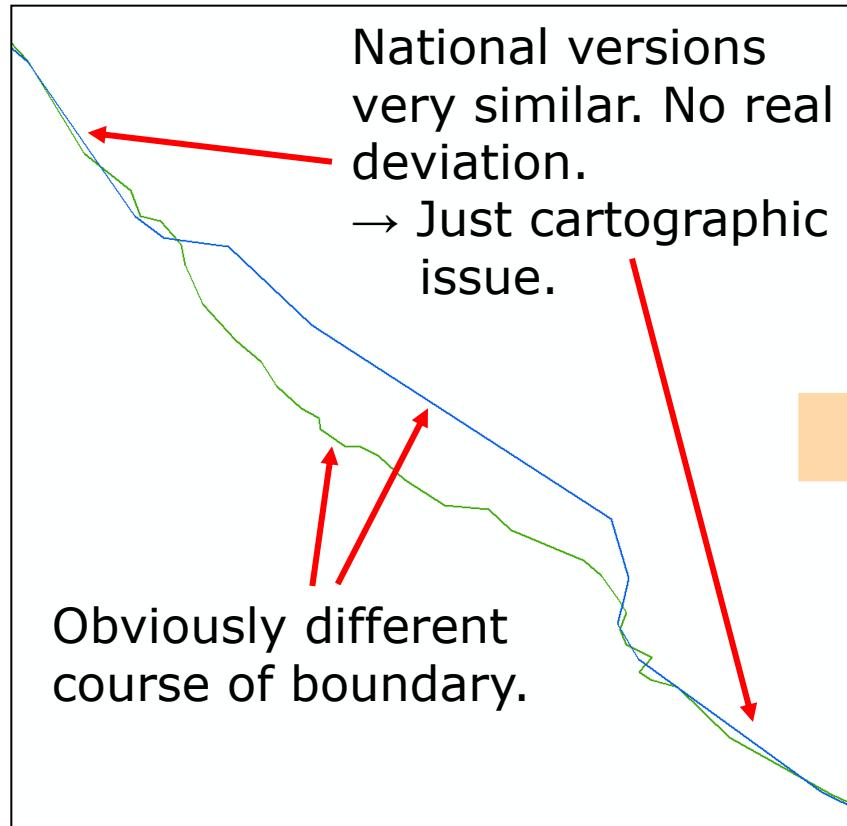
Unsolved:

- Albania as well as Bosnia and Herzegovina have been integrated in EBM v10 as country datasets → International boundaries not clarified yet with neighboring countries.
- Jörgen Spradau will discuss with concerned NMCAAs (AL, BA, RS, KS, MK, GR) during EG Producer meeting.



(1) Status of international boundaries (ELF IB)

Example Bosnia and Herzegovina – Croatia:



(1) Status of international boundaries (ELF IB)

Keep in mind:

- We don't aim to find the legally defined international boundaries. We do need pragmatic solution how to represent the boundaries in medium scale for the products EBM and ERM.



(2) Usage of connecting features

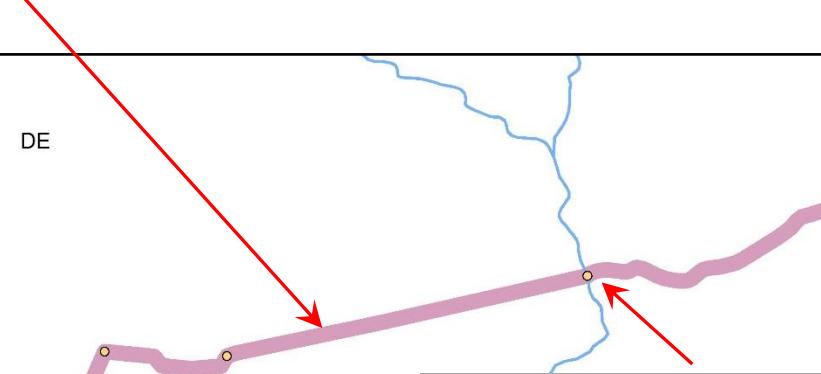
- Concept and workflow well described in ERM Edge Matching Rules, section 1.2.1 pp
- Connecting features:
 - ELF IB Regional → *ConnectingFeaturePoint*
 - Represent locations on the international boundaries where edge matched geographic entities from neighbouring countries connect.
 - Serve as anchor for repeatable edge matching
 - Simplify the edge matching process



(2) Usage of connecting features

Agreed international boundary Austria / Germany

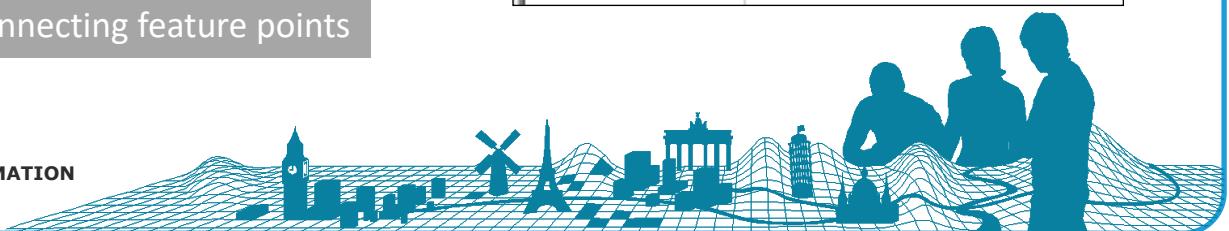
Field	Value
OBJECTID	155
Shape	Polyline
inspireId	_EG.ELF.IB.Regional:AT#DE.2
beginLifespanVersion	11.12.2012
endLifespanVersion	<null>
country	AT#DE
legalStatus	agreed
technicalStatus	edgeMatched
lastMeasurement	<null>
accuracy	<null>
movingBoundary	<null>
Shape_Length	7,00541



Connecting Feature Point for matching
of watercourse across boundary

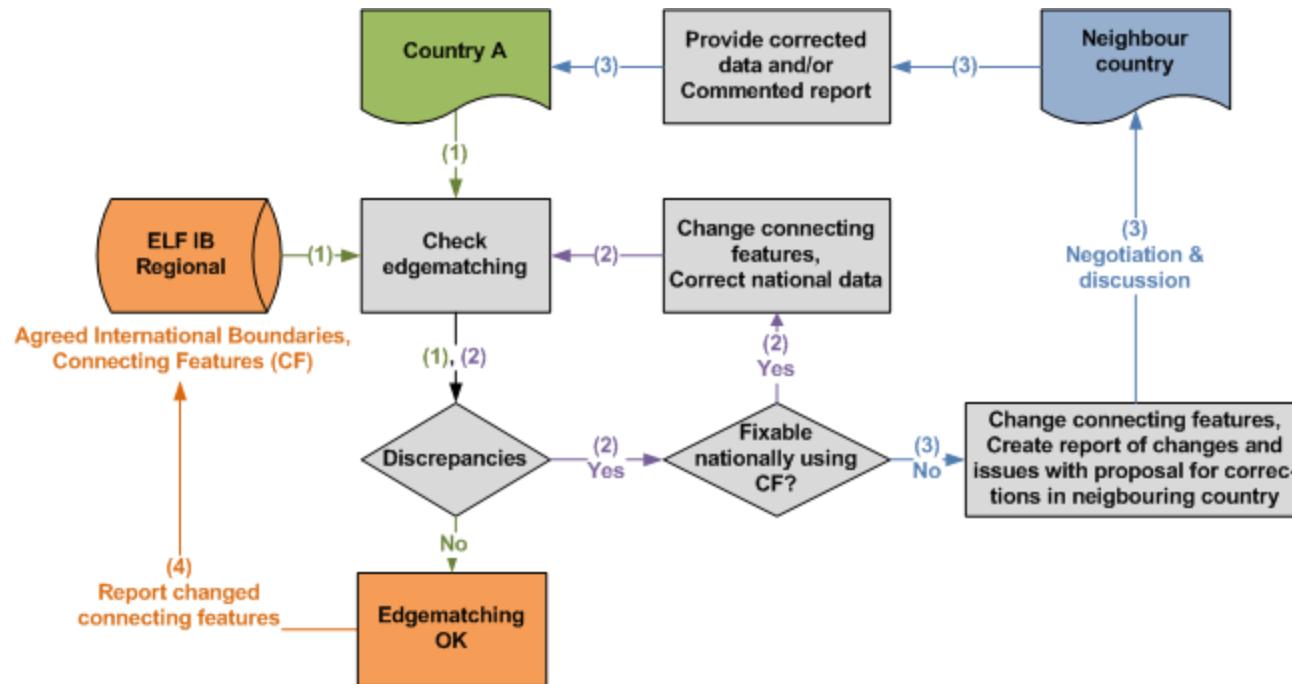
Watercourse located on the boundary using a
segment of the international boundary
represented by two connecting feature points

Field	Value
OBJECTID	370677
Shape	Point
inspireId	_EG.ELF.IB.Regional:AT#DE.2.426
beginLifespanVersion	11.12.2012
endLifespanVersion	<null>
country	AT#DE
featureType	AdministrativeBoundary#WatcrsL
status	approved



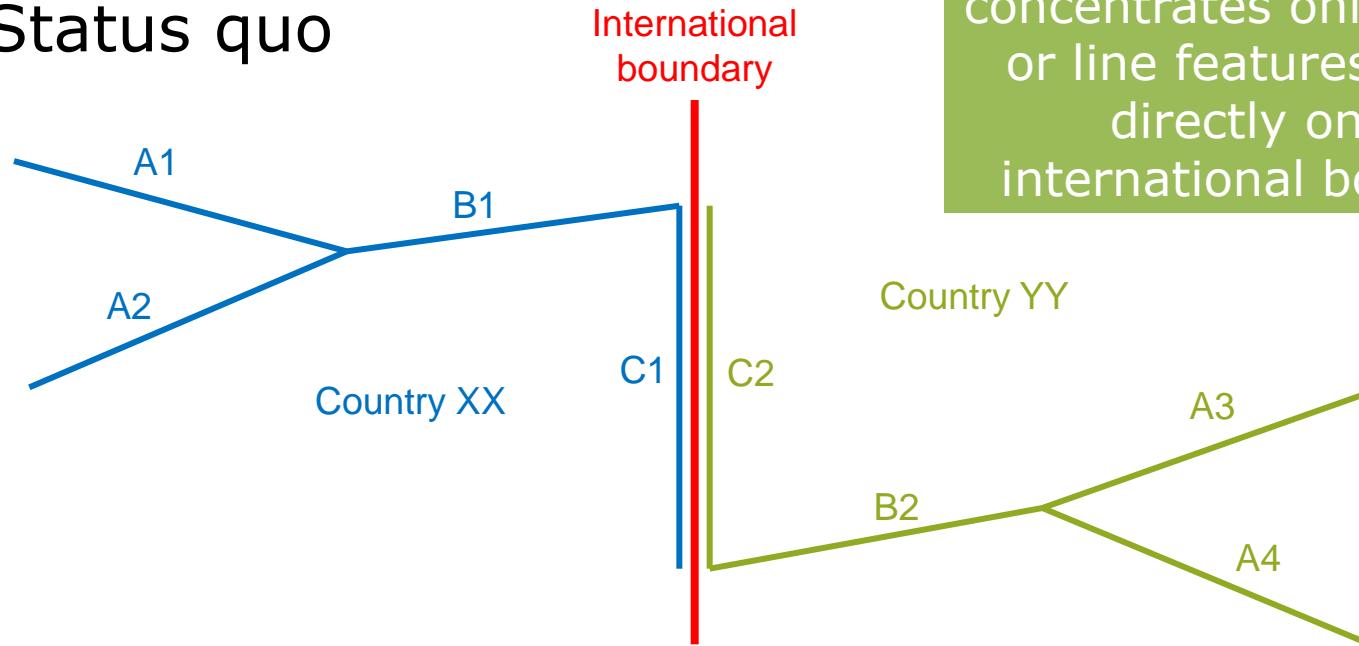
(2) Usage of connecting features

- Workflow of ERM edge matching procedure using ELF IB Regional and connecting features:



(3) Features located on the international boundary

- Status quo



At the moment: ERM concentrates only on point or line features located directly on the international boundary!

- Features completely inside country (A1, A2, A3 and A4)
- Features linked to international boundary (B1 and B2)
- Features located on international boundary (C1 and C2)

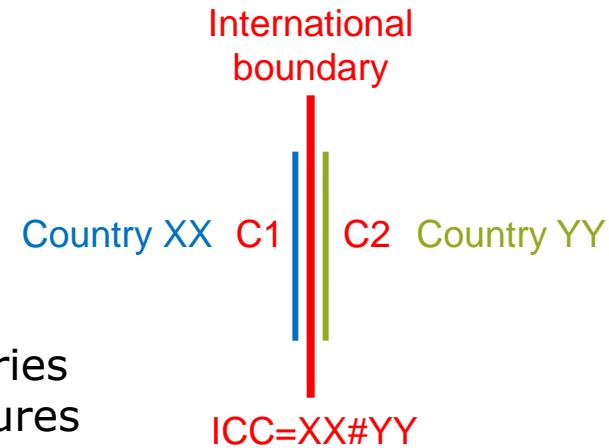


(3) Features located on the international boundary

- **New workflow starting with ERM v11**
→ Described in ERM Edge Matching Rules, section 1.2.4

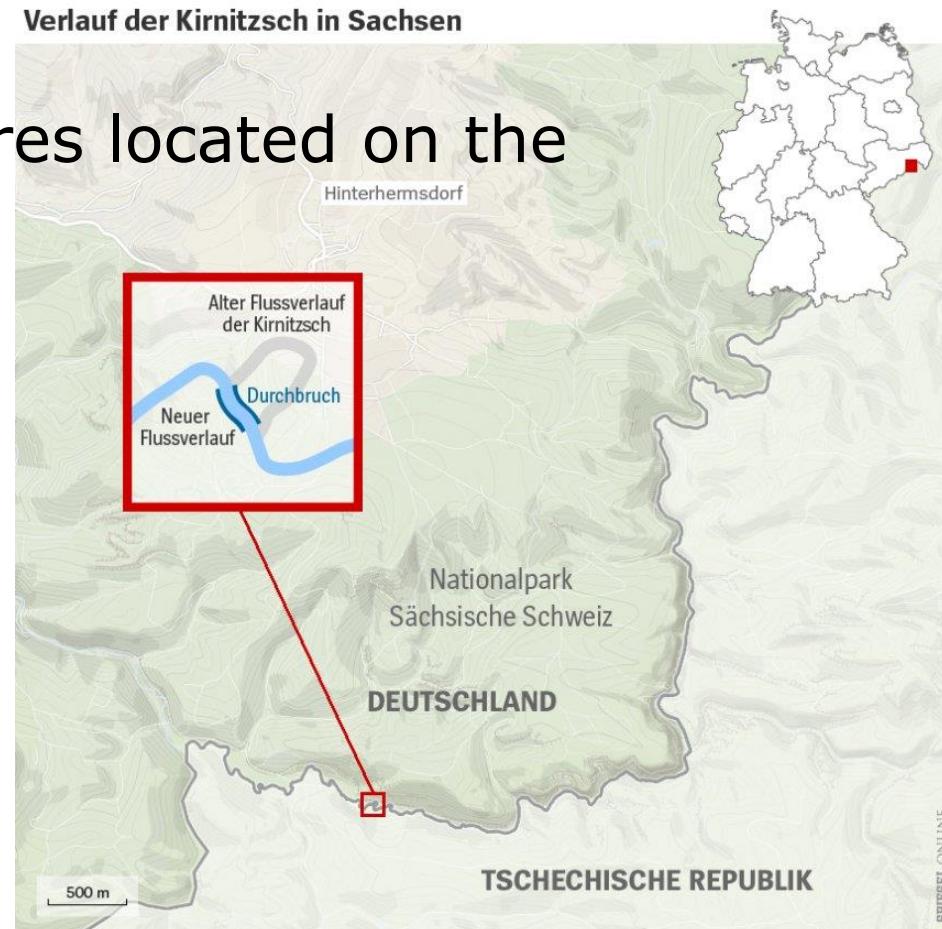
- **Preconditions**

- Features have to be properly edge matched
 - Agreement between neighbouring countries on a common representation of the features
 - Complete attribution
- Features must have two ICC-Codes separated by “#”



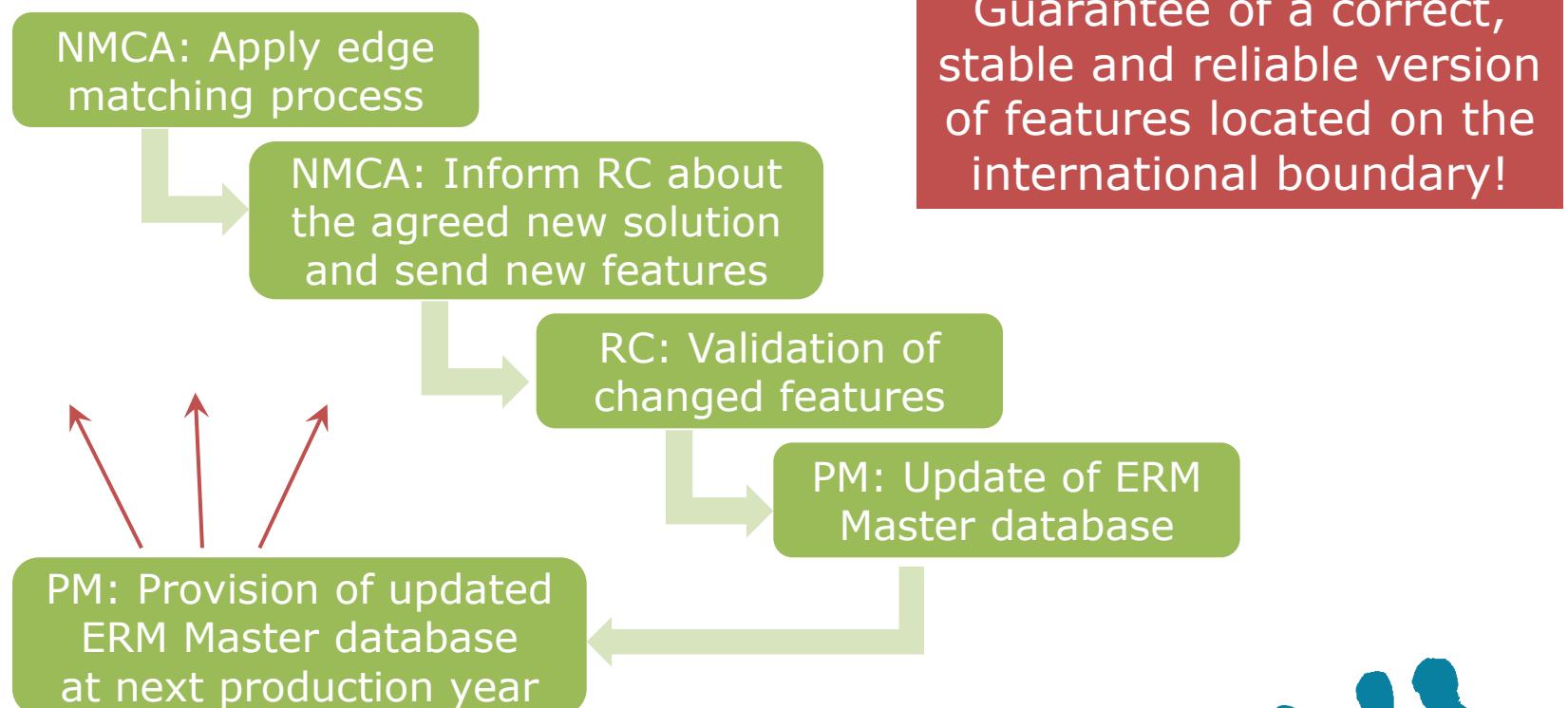
(3) Features located on the international boundary

- No real change of features located on the international boundary:
 - NMCAs can exclude such features from their update delivery
 - If national update includes such features → will be ignored by RC and not validated



(3) Features located on the international boundary

- Real change of features located on the international boundary:



Thank you for your attention



Contact:

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