







STATE OF PLAY ON FRANCE BOUNDARIES

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November 2018

SHARED BOUNDARY LINES FOR OPEN ELS DATABASE

2015: ELF-ELS INTEGRATION DATE

2020: JURIDICAL VALIDATION DATE (OR EXPECTED)

-  Technical agreement
-  Juridical validation
-  Postponed => 2 lines
-  Temporary solutions

2 edgematchings process ended
(BEL, SPA)

3 proposed
(LUX, SWI, GER)

Spain
2015
2015

Andorra
2017
2017

Belgium
2015
2019
2020

Luxembourg
2015
2020

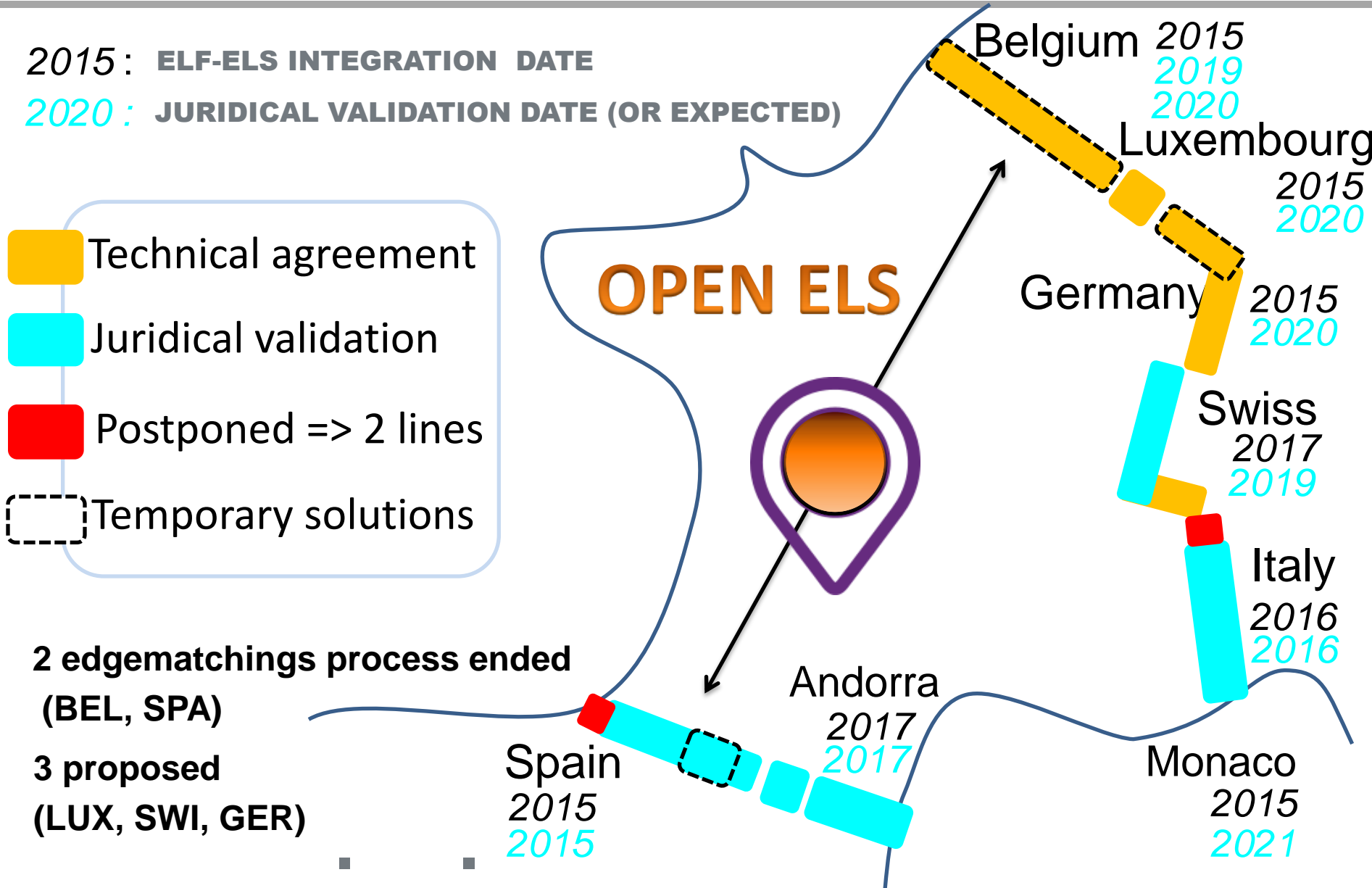
Germany
2015
2020

Swiss
2017
2019

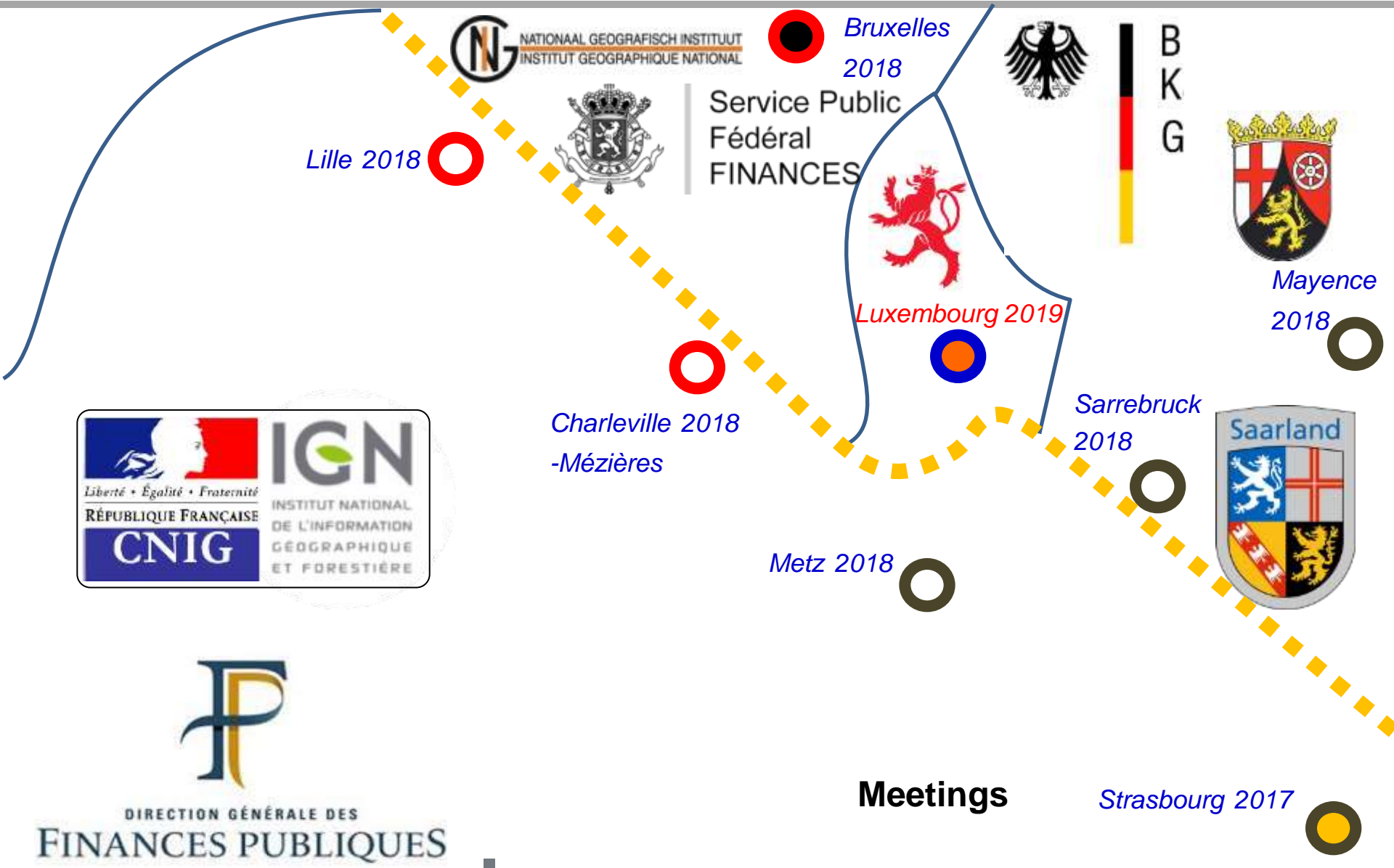
Italy
2016
2016

Monaco
2015
2021

OPEN ELS



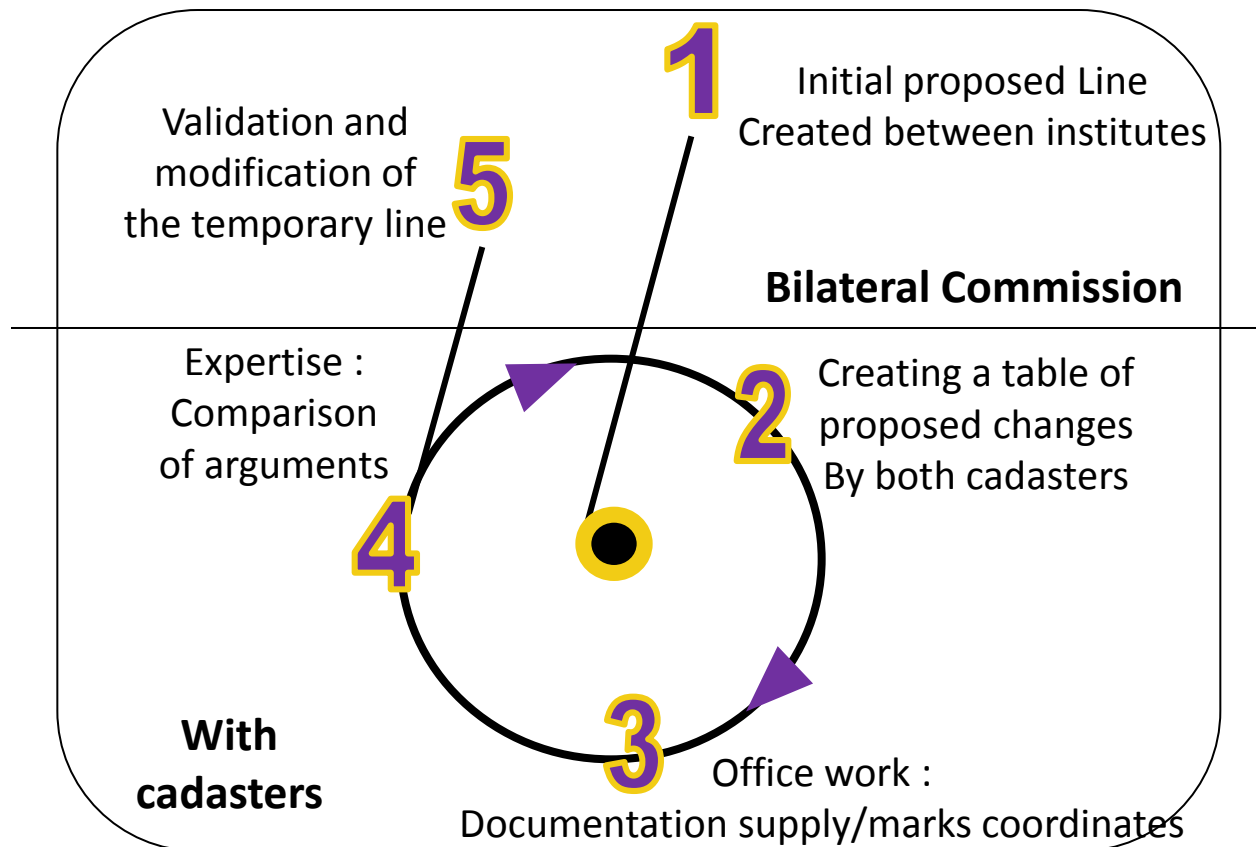
BOUNDARY WORKS IN 2018



IMPROVMENT PROCESS OF THE TEMPORARY LINE

Traity texts give the juridical definition of the boundary.

The digital boundary line receive a validation : “legal presumption” which allows to localize a boundary by coordinates.



JURIDICAL PROCESS

Traity texts give the juridical definition of the boundary.

Digital boundary line will receive in bilateral commissions a validation of a kind : “Legal presumption” referring to a boundary localised by coordinates.

Any recognition of a right is subject to proof of its reality by the methods provided for by law.

There are, however, circumstances in which direct evidence of an event is, or has become impossible.

The law thus attaches to certain apparent facts, which are capable of proof, an effect equivalent to that of the proof of facts which are insusceptible to being established.

These facts are called "**presumptions**".



- WGS84** : 1st used system, aligned on ITRF, usable with orbits broadcast
- ITRF/ITRS** : + techniques (Laser, DORIS, VLBI) improving the knowledge of the center of reference, the axis of rotation, etc ...
- ETRS89** : restriction of ITRS to Europe
- ETRF89**
epoch 89 : realization of ETRS in Europe from EUREF stations with static coordinates.
- RGF93** : restriction in France of a realization of the ETRS89,
- ETRF2000**
epoch 89 : realization based on ITRF2000 with rotation pole from 89, which worked for almost 20 years



It is recommended to express coordinates in a realization instead with epoch
PPP is coming and needs software to get local realization.

OPEN ELS2 PROJECT (CONNECTING EUROPE FACILITY)

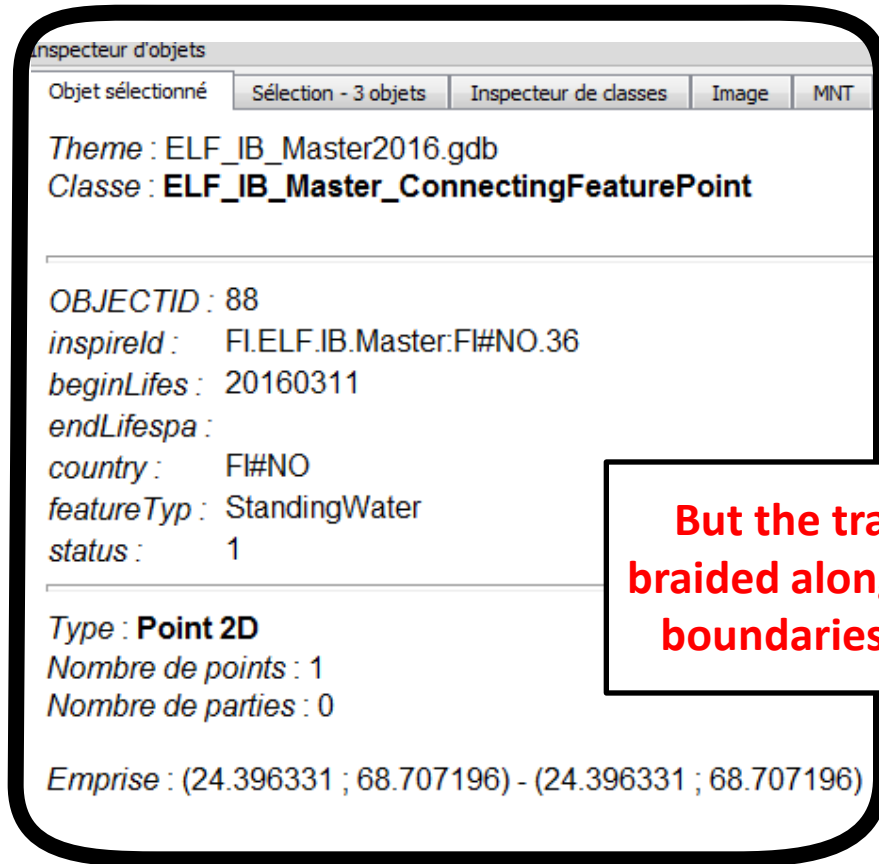
■ 2.3 Cross-border harmonisation

The specific attention will be given to the cross-border harmonization of national data and web-services for achieving the homogeneous Open ELS products (...)

The availability of such dataset of CFs would allow to edge-match the national spatial data along international border automatically, by triggering edge-matching applications(...)

The project will promote the guidance on defining CFs(...)

EDGEMATCHINGS : CONNECTING FEATURES



**But the trails
braided along the
boundaries.....**

4 themes concerned

- UA, TN, HY, BU

CFs : 2 kinds of objects

- Points (TN, HY)

- Line (UA, TN, HY, BU)

CFs Elements

- Feature type

- ETRS89

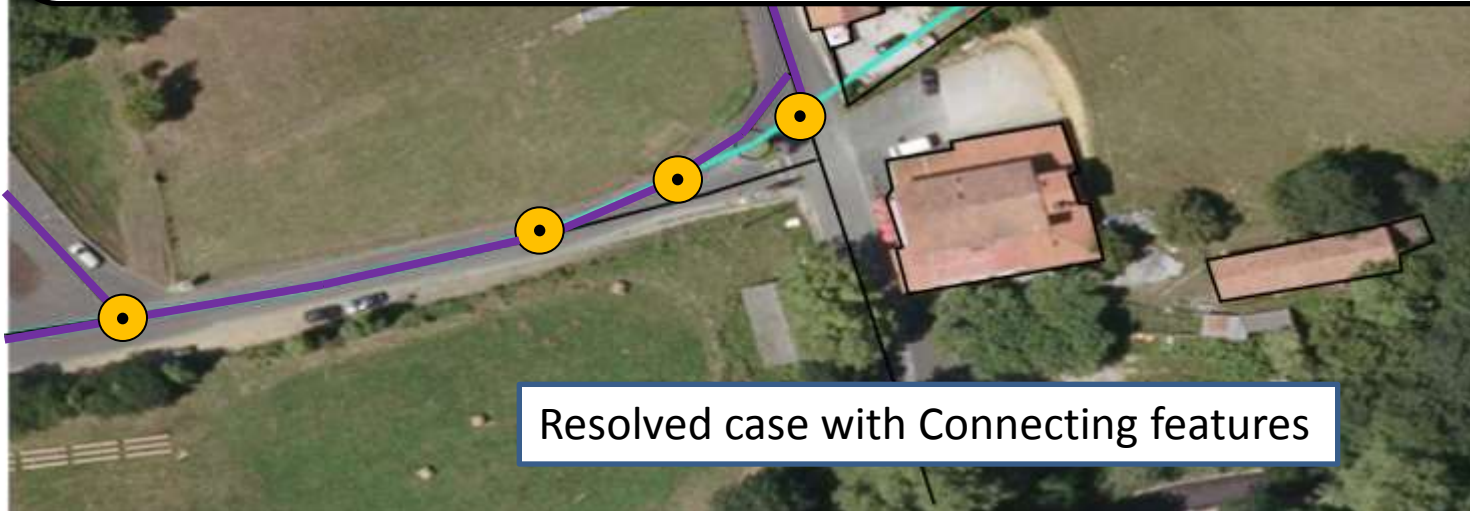
Geodetic coordinates

Format exchange : shape

ORGANISATION PROCESS DEPENDS ON LOCAL RUNNINGS

EDGEMATCHING

- Extraction for comparison
- Connecting candidates
- Neighboring objects
- Single shared line
- Geometry change proposals
- Updates in source database



case of
Agreed line
= National line

BOUNDARY UPDATE MANAGMENT for France

- Annual national update on december in the source database
- Delivered to Open ELS platform
- Displayed 4 months later in french national Geoportal

**But the list of
connecting features**

.....

GEOCONNECTGR

Consolidate by the end of 2019 large-scale hydrographic geographical data beyond internal borders to support territorial observation work



SOVEREIGN DATA

A political enquiry concluded by the promotion of national production and display of « Sovereign geographic data »

« In its sovereign function, the State needs geographical data of reference and certified to exercise its attributions in the fields of defense, security, taxation, protection of the environment, transport ... It is about "sovereign data" »



Towards qualified open spatial data support for digital policy and economy

EIF Project
European
Location
Framework
And since
2017
Open ELS



United
Nations
Initiative
on Global
Geospatial
Information
Management
2020

