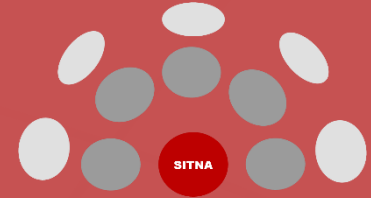




tracasa



# INSPIRING DATA PROVIDERS

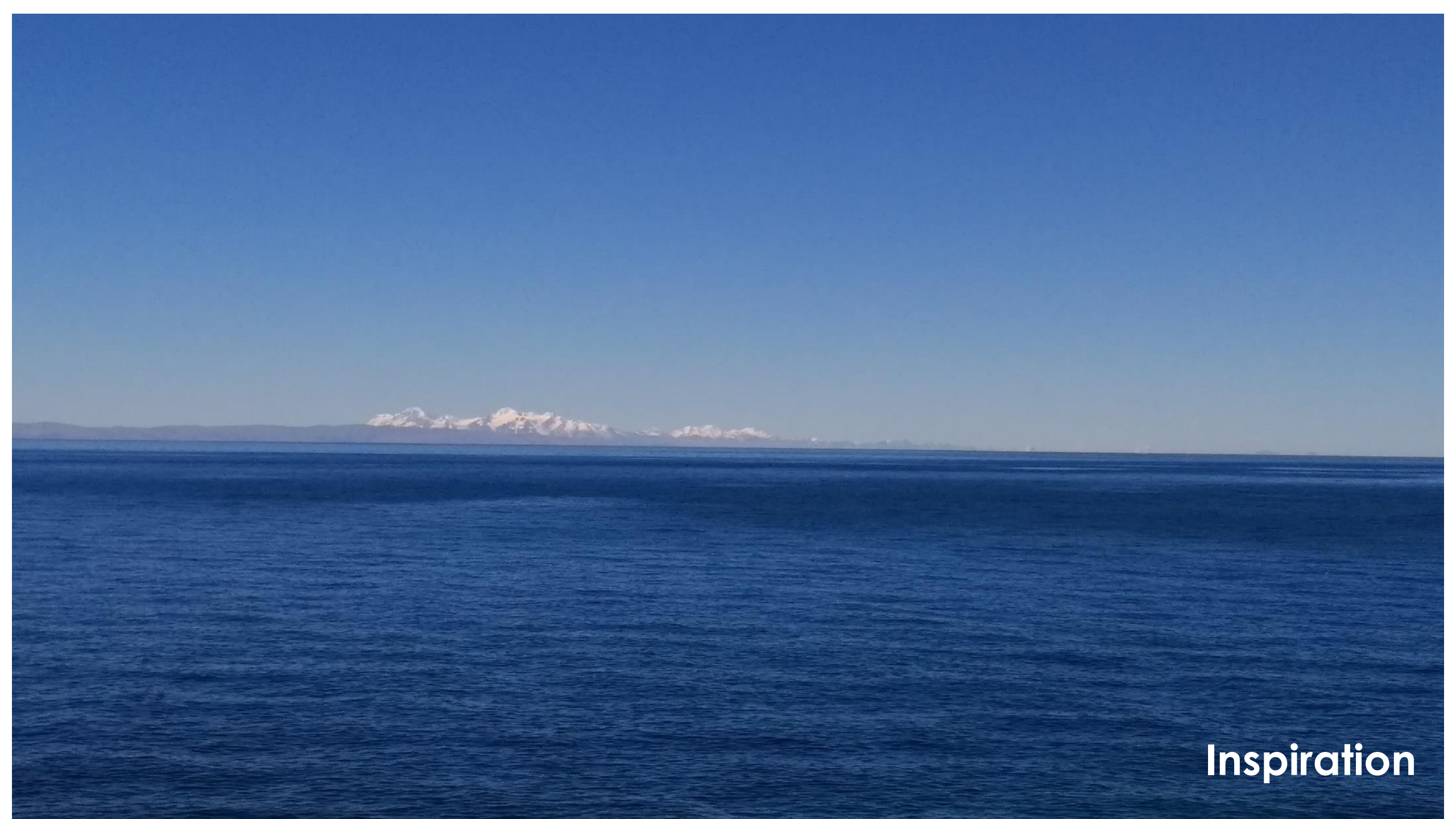
**María Cabello**

*European Projects Director*



**INSPIRE Conference 2018**  
Inspire Users: Make it work together

21 September 2018



**Inspiration**



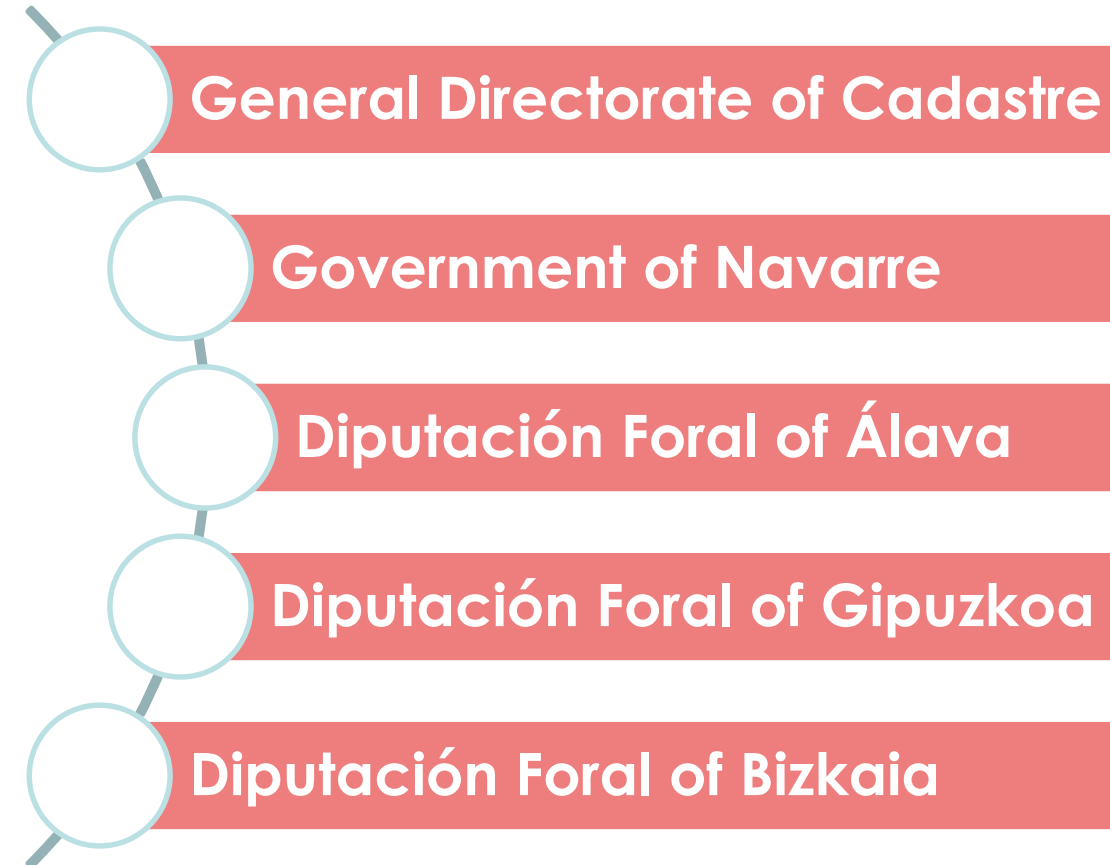
**About Cadastral Parcels**

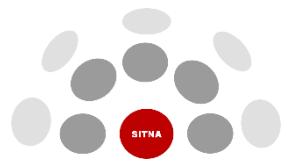
## What we have done

### Agreements to different levels of conformance.

- Data model
- Representation
- WMS styles
- WFS or ATOM

## Collaboration





## What we have done

## Data model

### Tool used

**HALE 3.0.0**



### How

To export the “Alignment” and use as configuration for loading the plugin in Geoserver

**Harmonisation was very easy**

## What we have done

## Services

**GeoServer 2.11**



**GeoTools 17.0**



**Plugins “Inspire” and “app-schema”** to support the creation of complex features



**Required a modification of Geoserver  
to be INSPIRE compliant**

## What we have done

## Modifications

**Alignment from HALE** requires some configuration to be used in GeoServer.

Some **bugs from GeoServer** were detected, corrected and some of them reported:

- “GetFeature” and “GetFeatureInfo” to manage complex layers: [GEOS-8192](#). 
- “GetMap” not fully supported for internal management of complex geometries: e.g. multisurface
- Severe bug on the publication of layers by workspace. [GEOS-7532](#) y [GEOS-8108](#) 
- Some adjustments in GeoServer to verify and correct if needed the direction of the points in the polygons for the GML creation (“GetFeature” and “GetFeatureInfo”).
- New configuration in plugin “inspire” for the elements WMS, WFS, WCS and WMTS to create extended capabilities.

**Some difficulties but all solved**

## What we have done

## Validation

Different validations for Data, Metadata and Services

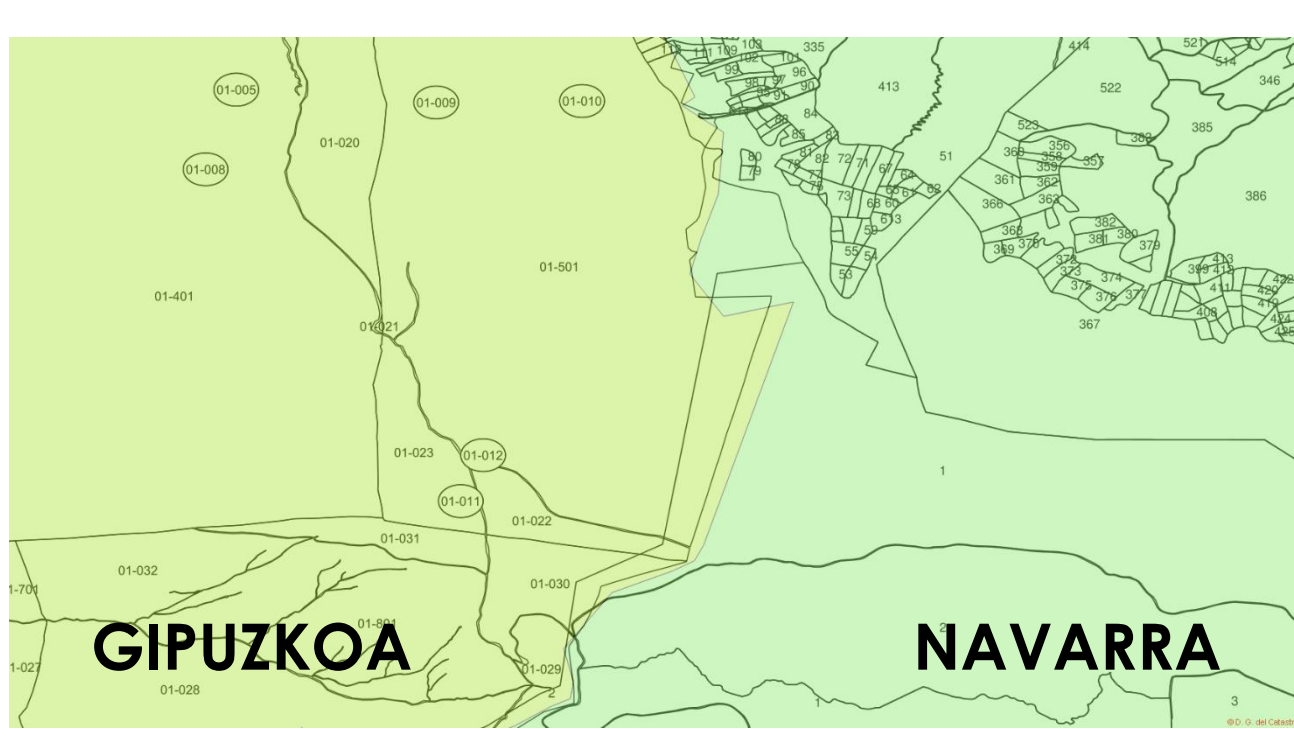
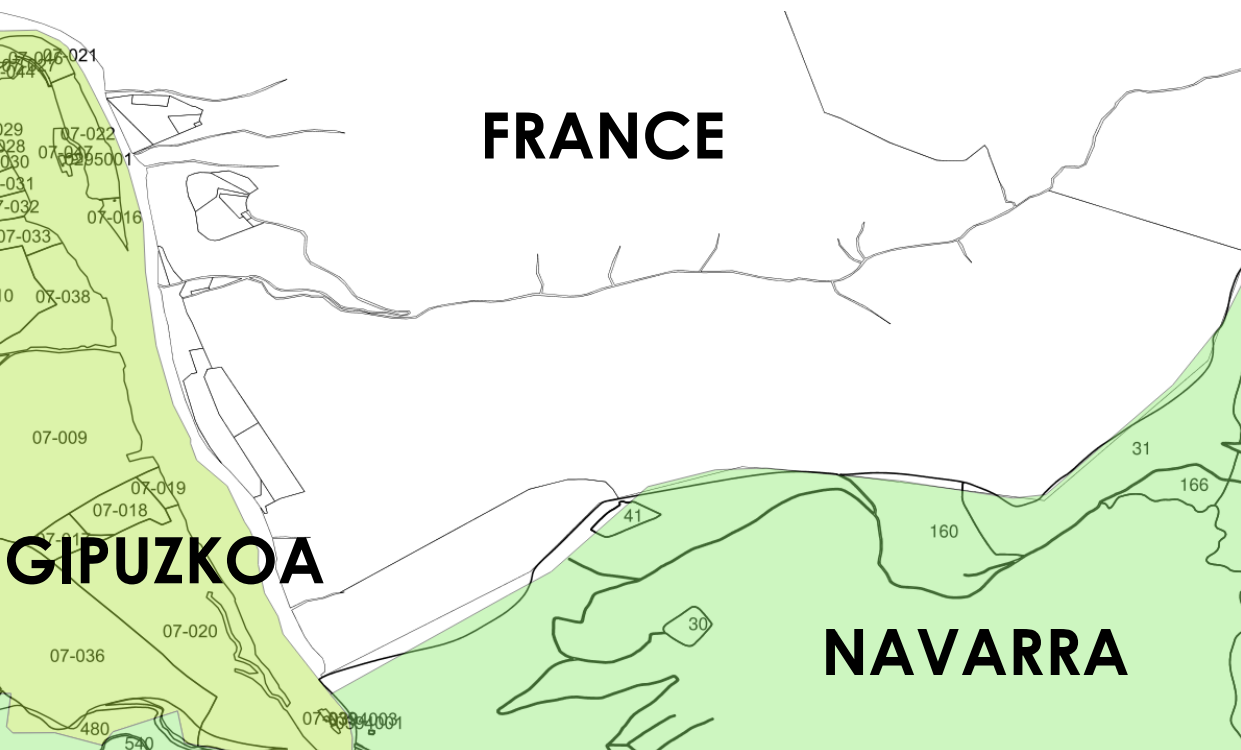
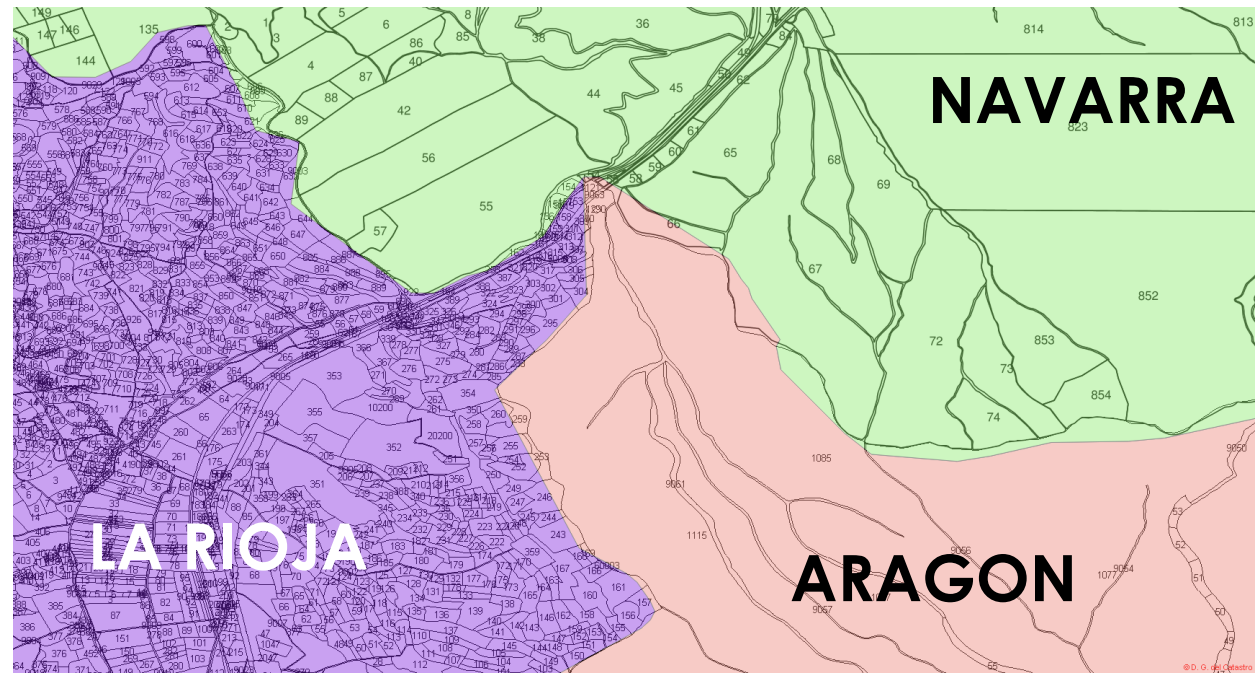
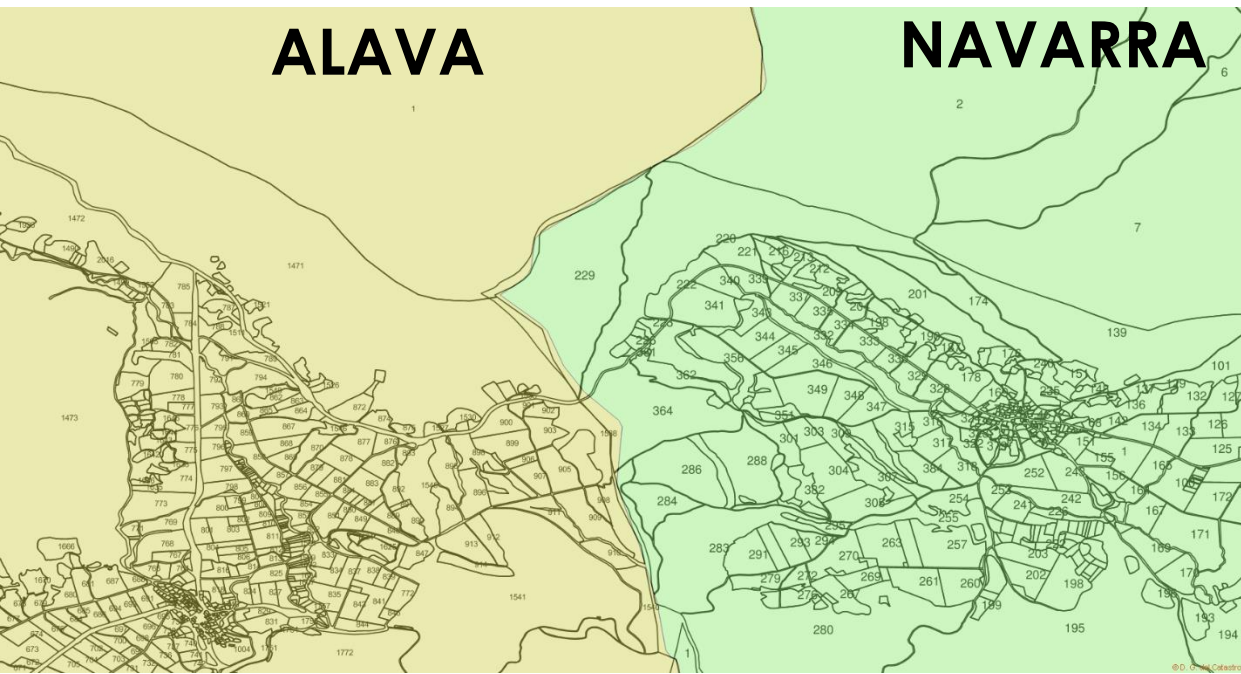
- Old Validator of INSPIRE: Unidentified error for WFS <http://inspire-geoportal.ec.europa.eu/validator2/>
- Spatineo <http://validator.spatineo.com/>
- Geoportal of Czech Republic <https://geoportal.gov.cz/web/guest/validate/metadata>
- eENVplus to validate GML INSPIRE Data model y GML from WFS.

[http://cloud.epsilon-italia.it/eenvplus\\_new/](http://cloud.epsilon-italia.it/eenvplus_new/)

- GDI-DE Testsuite <https://testsuite.gdi-de.org/gdi/>
- New Validator of INSPIRE: used for web services. <http://inspire-sandbox.jrc.ec.europa.eu/validator/>

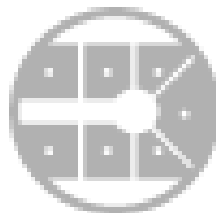
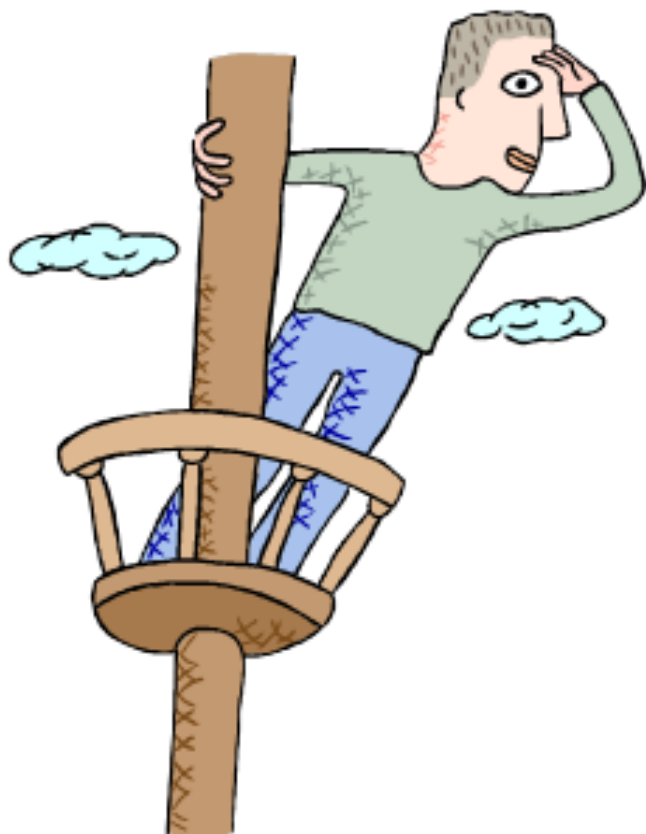
**SITNA – Maximum level of validation**





## What's next?

**Legal Mandate**



**Cadastral parcels**



**Addresses**



**Geographical names**



**Buildings**

## Fits for purpose?

# NO

- Duplicated to comply with legal obligation
- Users' needs depends on additional factors not included in the models
- Need redesign of the client apps of the users

## Conclusions

- Reuse must be reinforced
- Not only from the users but from developers.

Why not the same for INSPIRE?

We need armament

- Administrations to continue working on it
- Companies to reuse INSPIRE

**INSPIRE is not only harmonisation, also needs to demonstrate the benefits and increase the reusability**



**Why are apps using Sentinel information so fast?**

Because it is open, transparent, and well know their frequency of updating.

## SOME EXAMPLES OF DIFFERENT REQUESTS

### GetCapabilities WFS

<https://inspire.navarra.es/services/CP/wfs?service=WFS&request=getcapabilities>

### GetCapabilities WMS

<https://inspire.navarra.es/services/CP/wms?service=WMS&request=GetCapabilities>

### GetFeature WFS

<https://inspire.navarra.es/services/CP/wfs?service=WFS&version=2.0.0&request=GetFeature&typenames=CP:CadastralParcel&count=2>

[https://inspire.navarra.es/services/CP/wfs?service=WFS&version=2.0.0&request=GetFeature&typenames=CP:CadastralParcel&filter=<fes:Filter xmlns:fes="http://www.opengis.net/fes/2.0"><fes:ResourceId rid="ES.RRTN.CP.38011381"></fes:Filter>](https://inspire.navarra.es/services/CP/wfs?service=WFS&version=2.0.0&request=GetFeature&typenames=CP:CadastralParcel&filter=<fes:Filter xmlns:fes='http://www.opengis.net/fes/2.0'><fes:ResourceId rid='ES.RRTN.CP.38011381'></fes:Filter>)

<https://inspire.navarra.es/services/CP/wfs?service=WFS&version=2.0.0&request=GetFeature&typenames=CP:CadastralParcel&bbox=610100,4741900,610350,4742150&srsName=urn:ogc:def:crs:epsg::25830>

### ListStoredQueries WFS

<https://inspire.navarra.es/services/CP/wfs?service=wfs&version=2.0.0&request=ListStoredQueries>

### GetMap WMS

<https://inspire.navarra.es/services/CP/wms?service=WMS&VERSION=1.3.0&REQUEST=GetMap&BBOX=610065,4741935,610315,4742185&CRS=EPSG:25830&WIDTH=1118&HEIGHT=812&LAYERS=CadastralParcel&FORMAT=image/png>

### GetFeatureInfo WMS

[https://inspire.navarra.es/services/CP/wms?service=WMS&VERSION=1.3.0&REQUEST=GetFeatureInfo&BBOX=610065,4741935,610315,4742185&CRS=EPSG:25830&WIDTH=1118&HEIGHT=812&LAYERS=CadastralParcel&FORMAT=image/png&QUERY\\_LAYERS=CadastralParcel&INFO\\_FORMAT=text/html&FEATURE\\_COUNT=10&i=100&j=100](https://inspire.navarra.es/services/CP/wms?service=WMS&VERSION=1.3.0&REQUEST=GetFeatureInfo&BBOX=610065,4741935,610315,4742185&CRS=EPSG:25830&WIDTH=1118&HEIGHT=812&LAYERS=CadastralParcel&FORMAT=image/png&QUERY_LAYERS=CadastralParcel&INFO_FORMAT=text/html&FEATURE_COUNT=10&i=100&j=100)