

**The European Commission's  
science and knowledge service**

Joint Research Centre

# **Designing a new functionality to help to fill the INSPIRE technical gaps**

*Lorena Hernández, Robin Smith, Michele Rovera*

***INSPIRE Conference 2017***



# The INSPIRE implementation is ongoing but not always that "smoothly"...

Among other types of issues, the **technical gaps** put often the implementers in bad position to achieve their tasks:

Some **technical gaps** could be:

- Bugs
- Missing features
- Missing software
- Missing resources
- ?

The image shows a screenshot of a web application for tracking Geoserver issues. At the top, there's a title "Geoserver known issues" and a menu bar. Below the menu is a table with columns: ID, Problem, Description, Workaround, INSPIRE Themes impacted, Version, Date Reported, Reported by, and In the process of negotiating funding. The first row (ID 1) describes a problem with "Unique Endpoint per Dataset" and mentions a workaround involving Apache's rewriting functionality. To the right, a detailed view of an issue is shown, titled "WFS 2.0 DescribeFeatureType responses for app-schema types contain a spurious WFS 2.0 jar import". It includes details like Type (Error), Priority (Medium), Status (OPEN), and a description of the problem and its resolution.

ID	Problem	Description	Workaround	INSPIRE Themes impacted	Version	Date Reported	Reported by	In the process of negotiating funding
1	Unique Endpoint per Dataset	The closest solution provided by GeoServer are the namespace specific endpoints. While the namespace specific endpoints provide the correct capabilities, when providing complex features, there's a problem with the namespace encoding (formally its nicer if all namespaces are declared in the header and then used, in the namespace specific encoding of complex features each namespace is defined where used; the namespaces are all set to null). Also, multiple datasets may be provided by an organization using the same INSPIRE Theme, thus namespace.	Utilize Apache's rewriting functionality. For getCapabilities the namespace specific URI should be used, for getFeature the request URI should be rewritten with the namespace excluded.		2.9	1/31/2017	Kathi Schleidt	Finnish Environment Institute

**23 issues only for Geoserver**

# How to proceed collaboratively?

**ARe3NA** under ISA action, has tried in the last years to help in this regards with the **funding and development of open and reusable interoperability solutions** as:

- Re3gistry,
- AAA federation pilots,
- Common INSPIRE validator
- GeoDCAT-AP
- SOS for Inspire
- ....

However, many technical gaps are still out there specially in third party tools chosen by the implementers, and **EC cannot intervene in all of them.**

Crowdsourcing would be interesting but not feasible yet since not completely aligned with the transparency principle required to governments.

# Should the JRC broker the needs between data providers and solution providers or not?

## Data provider/implementer



*“There is a bug in feature X, could you solve it please?”*



*“I have seen it too! and I know a workaround”*



*“I would need Y enhancement to serve my compliant View Service”*



*“We too!”*

## Solution provider



*“Thank you for reporting that, It will be fixed in the next release.”*



*“This is a specific requirement that needs to be funded for its development”*



European  
Commission

# Should the JRC broker the needs between data providers and solution providers or not?

**Data provider/implementer**

**JRC** 

**Solution provider**



*"There is a bug in feature X, could you solve it please?"*



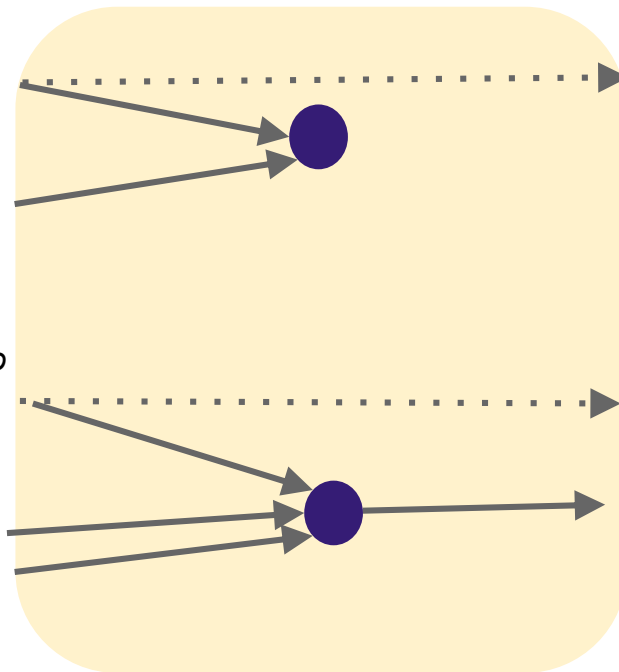
*"I have seen it too! and I know a workaround"*



*"I would need Y enhancement to serve my compliant View Service"*



*"We too!"*



*"Thank you for reporting that, It will be fixed in the next release."*



*"This is a specific requirement that needs to be funded for its development"*



European Commission

# Collecting requirements - *What should and what shouldn't this new feature cover?*

The initial idea is to reuse and rescope the **INSPIRE in Practice** collaborative platform, specifically the tools section.

We should refer to the official issue trackers and to the forums used to discuss this idea.

## Some suggestions

I am using this tool



Ask a question

Report an issue

Vote for this issue

I am interesting in cofunding this



How should be the governance?

# Questions for discussion

- **Question 1** - Are you facing difficulties because of technical gaps?
  - What type? How did you proceed?
- **Question 2** - Should the JRC broker the needs between solution and data providers? Or it shouldn't?
  - Benefits/drawbacks
- **Question 3** - Collecting requirements
  - What should and what shouldn't this new feature cover?
    - Voting Systems?
    - Counters?
  - How should be the governance?
    - Open/Closed ?Managed by the TC facilitators?

I am using this tool

Ask a question

Report an issue

Vote for this issue

I am interesting in cofunding this



# References



 INSPIRE in practice platform  
<https://inspire-reference.jrc.ec.europa.eu/>

 Are3na JoinUp space  
<https://joinup.ec.europa.eu/community/are3na/description>

 Thematic clusters  
<https://themes.jrc.ec.europa.eu/>



# Tell us about the missing pieces!

Find us during  
the conference



Lorena Hernández

[lorena.hernandez@ext.ec.europa.eu](mailto:lorena.hernandez@ext.ec.europa.eu)

Write to us!



[are3na@jrc.ec.europa.eu](mailto:are3na@jrc.ec.europa.eu)

Tweet!



[@EULocation](https://twitter.com/EULocation)

[#INSPIREinPractice](https://twitter.com/hashtag/INSPIREinPractice)

THANK YOU

Photo by [Matt Jones](#) on [Unsplash](#)

# Stay in touch



EU Science Hub: [ec.europa.eu/jrc](https://ec.europa.eu/jrc)



Twitter: [@EU\\_ScienceHub](https://twitter.com/EU_ScienceHub)



Facebook: [EU Science Hub - Joint Research Centre](https://www.facebook.com/EU_Science_Hub_-_Joint_Research_Centre)



LinkedIn: [Joint Research Centre](https://www.linkedin.com/company/joint-research-centre)



YouTube: [EU Science Hub](https://www.youtube.com/EU_Science_Hub)