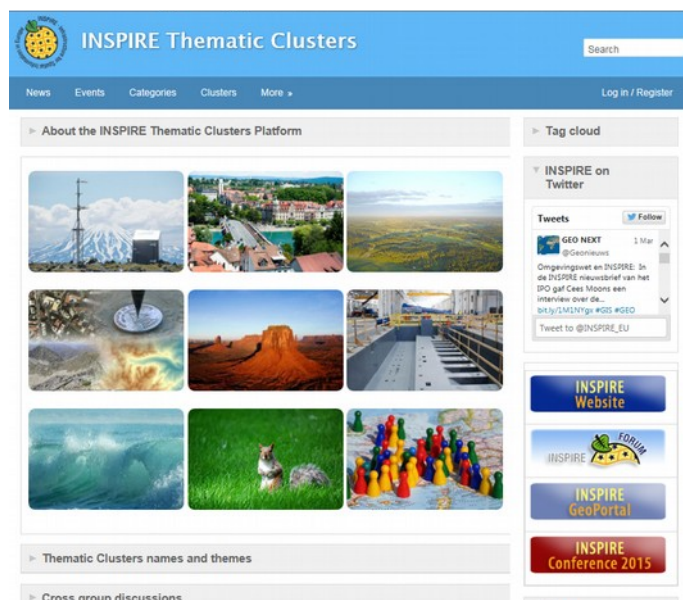


# INSPIRE Thematic Clusters

*Regione Emilia Romagna – 13 Ottobre 2015*

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facilitator EF-OM  
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[www.jrc.ec.europa.eu](http://www.jrc.ec.europa.eu)

*Serving society  
Stimulating innovation  
Supporting legislation*

# Di cosa parliamo

- Cosa sono i Thematic Clusters
- Situazione attuale
- Perché partecipare
- Come partecipare

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












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## About the INSPIRE Thematic Clusters Platform




## Tag cloud

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**GEO NEXT** 1 Mar  
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Omgevingswet en INSPIRE: In de INSPIRE nieuwsbrief van het IPO gaf Cees Moons een interview over de...  
[bit.ly/1M1NYgx](https://bit.ly/1M1NYgx) #GIS #GEO

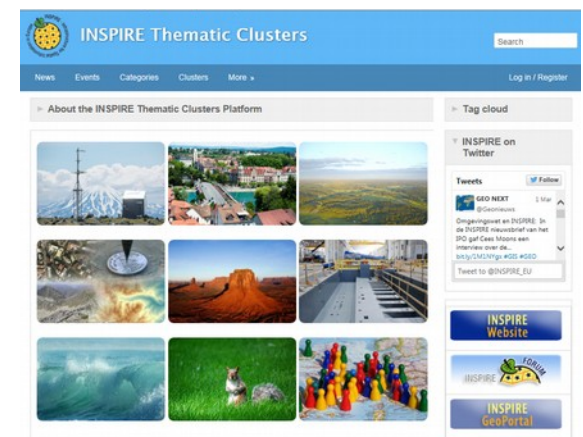
[INSPIRE Website](#)

[INSPIRE FORUM](#)

[INSPIRE GeoPortal](#)

# INSPIRE Thematic Clusters Platform

- Iniziativa della Commissione Europea, collegata al Framework INSPIRE Maintenance and Implementation, con l'obiettivo di supportare l'implementazione di INSPIRE negli Stati Membri.
- Lanciata ufficialmente l'11.12.2014 come piattaforma collaborativa per le Comunità Tematiche in INSPIRE



# Scopo della piattaforma Thematic Clusters

- Molte problemi relativi all'implementazione di INSPIRE sono **tema-specifici**: **esigenza di un approccio armonizzato**.
- Manca una modalità di **condivisione dell'esperienza** per chi deve implementare INSPIRE: **continuazione dei Thematic WGs INSPIRE**.
- Manca una **visione coerente dello stato dell'implementazione** nei diversi temi INSPIRE: **buone pratiche**.
- Considerazioni sui risultati del MID-Term Evaluation Public Survey INSPIRE.



Altitude



Occupation des terres



Ortho-imagerie



Géologie

# INSPIRE Thematic clusters platform

Consiste in 9 cluster tematici cioè gruppi di temi di dati INSPIRE ciascuno dei quali coordinato da *facilitatori* (esperti di dominio con conoscenza di INSPIRE e conoscenza e reti di relazioni con le comunità)

- Statistical & Human Health Cluster – Mirosław Migacz
- Marine & Atmosphere Cluster – Keiran Millard
- Earth Science Cluster – Amelia Baptie
- Land Cover & Land Use Cluster – Lena Hallin-Pihlatie
- Elevation, Orthoimagery, Reference System & Geographical Grid – Jordi Escriu
- Environmental Monitoring & Observations Cluster – Alessandro Sarretta
- Biodiversity & Management Areas Cluster – Brian Mac Sharry
- Facilities, Utilities & Public Services Cluster – Angel Lopez Alos
- Topographic & Cadastral Data Cluster – Anja Hopfstock



# Thematic clusters platform statistics 20.5.2015

- 450 registered members
- 50 groups (groups + sub-groups)
- 234 discussion topics
- 467 responses
- 50 files uploaded
- 33 News items



# Cosa contengono i Clusters

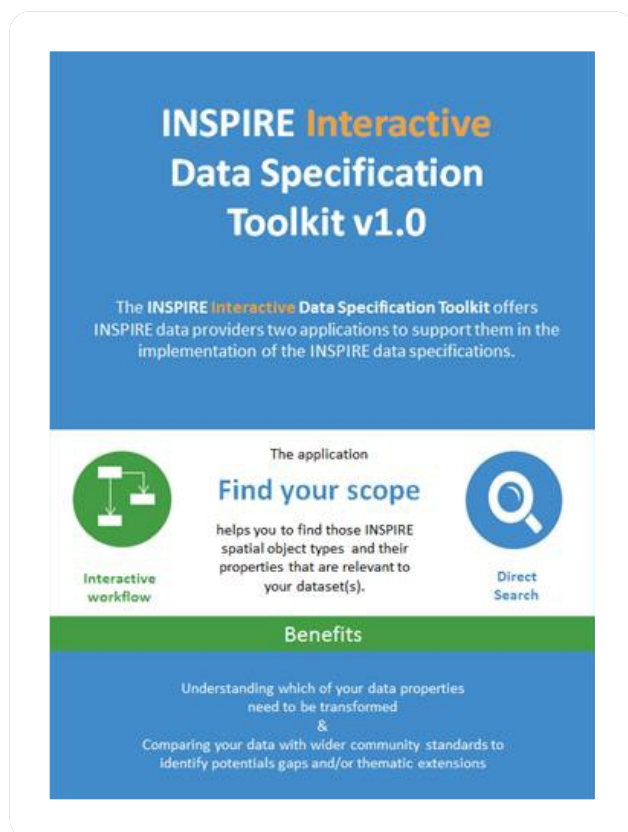
- Discussioni
- Pagine con best practices, link a presentazioni, informazioni su strumenti, ecc.
- News, eventi, ...



# Perché partecipare

- Orientarsi sulla “scelta” del tema INSPIRE di interesse
- Imparare da (buoni) esempi di altri
- Chiedere chiarimenti su dubbi generali o specifici
- Approfondire strumenti di implementazione già usati
- Creare rete di relazioni
- Proporre/richiedere aggiornamenti/correzioni a Technical Guidelines

# INSPIRE Interactive Data Specification Toolkit



**INSPIRE Interactive Data Specification Toolkit v1.0**

The INSPIRE Interactive Data Specification Toolkit offers INSPIRE data providers two applications to support them in the implementation of the INSPIRE data specifications.

**The application**

**Find your scope**

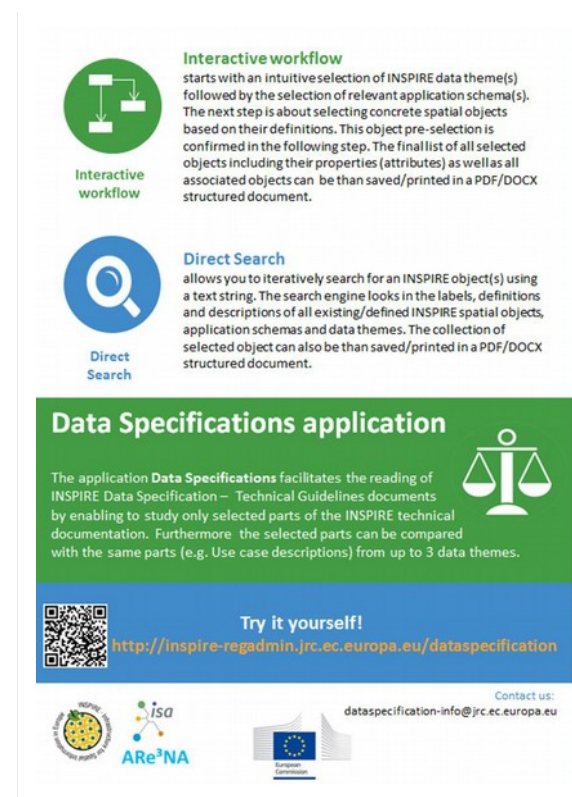
helps you to find those INSPIRE spatial object types and their properties that are relevant to your dataset(s).

**Interactive workflow**

**Direct Search**

**Benefits**

Understanding which of your data properties need to be transformed  
&  
Comparing your data with wider community standards to identify potential gaps and/or thematic extensions



**Interactive workflow**

starts with an intuitive selection of INSPIRE data theme(s) followed by the selection of relevant application schema(s). The next step is about selecting concrete spatial objects based on their definitions. This object pre-selection is confirmed in the following step. The final list of all selected objects including their properties (attributes) as well as all associated objects can be then saved/printed in a PDF/DOCX structured document.

**Direct Search**

allows you to iteratively search for an INSPIRE object(s) using a text string. The search engine looks in the labels, definitions and descriptions of all existing/defined INSPIRE spatial objects, application schemas and data themes. The collection of selected object can also be then saved/printed in a PDF/DOCX structured document.




**Data Specifications application**

The application **Data Specifications** facilitates the reading of INSPIRE Data Specification – Technical Guidelines documents by enabling to study only selected parts of the INSPIRE technical documentation. Furthermore, the selected parts can be compared with the same parts (e.g. Use case descriptions) from up to 3 data themes.

**Try it yourself!**

<http://inspire-regadmin.jrc.ec.europa.eu/dataspecification/>

Contact us: [dataspecification-info@jrc.ec.europa.eu](mailto:dataspecification-info@jrc.ec.europa.eu)

<http://inspire-regadmin.jrc.ec.europa.eu/dataspecification/>

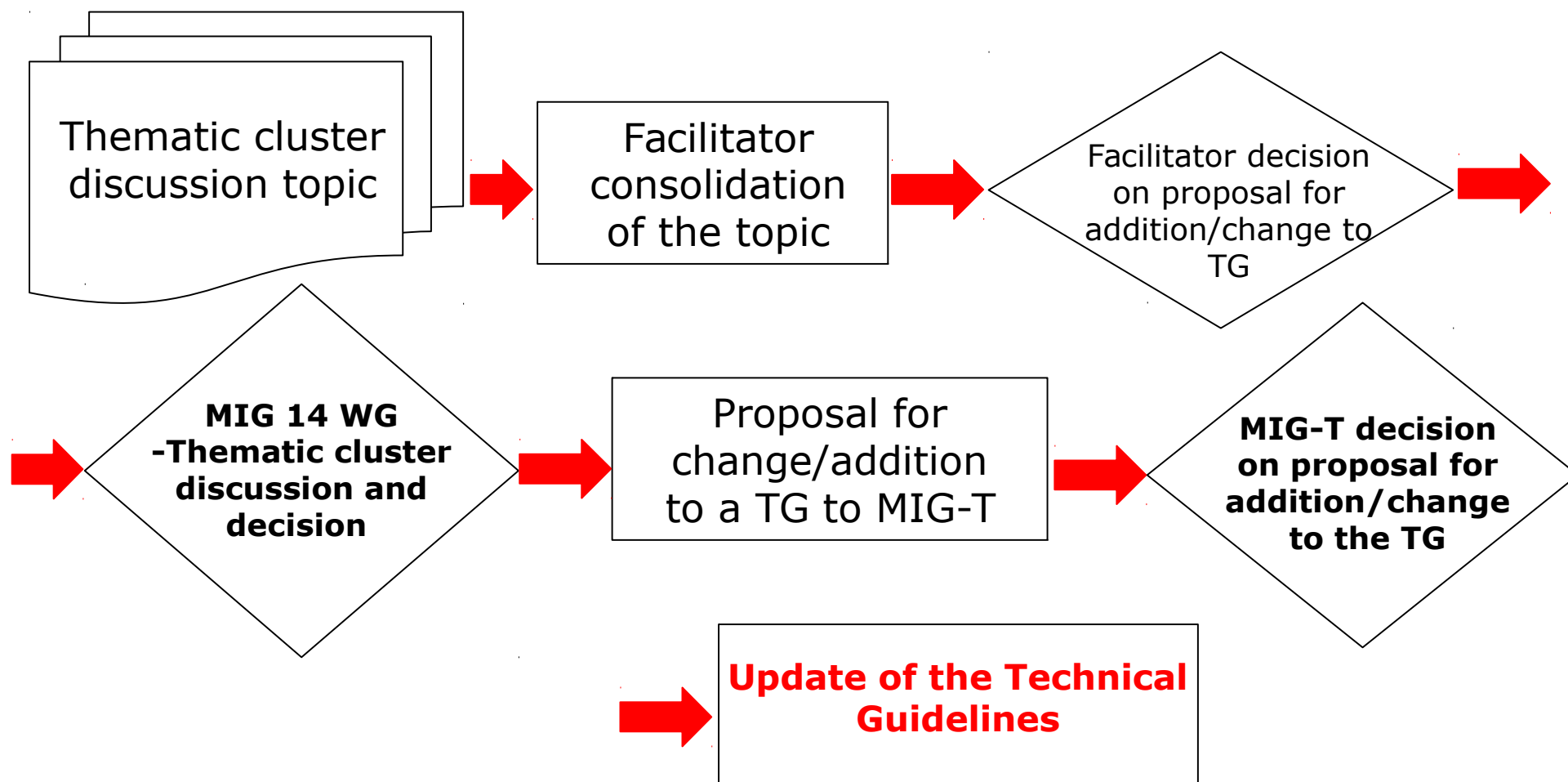
# INSPIRE Interactive Data Specification Toolkit

**Data specification application:** tool for helping reading and comparing INSPIRE data specification-Technical Guidelines documents

**Find your scope application:** tool for helping finding those INSPIRE spatial object types and their properties that are relevant for you.

**Find your scope: Interactive workflow tool**

# Workflow for proposals for thematic additions/changes to the Technical Guidelines



# Come partecipare

- Iscrivarsi ai Thematic clusters d'interesse
  - e anche ai sotto gruppi
- Seguire discussioni in Cluster potenzialmente di interesse
- Porre domande senza imbarazzi

# Registration



## INSPIRE Thematic Clusters

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[Groups](#) > [Environmental Monitoring and Observations Cluster](#)

### Environmental Monitoring and Observations Cluster


Image Owner Credit



#### Description:

This is an open group for people interested or involved in the use, implementation, dissemination, understanding of the INSPIRE Thematic Cluster "**Environmental Monitoring Facilities, Observations and Measurements**".

In order to add discussion topics and participate in the discussion, you need

to [register](#) to the  platform and then join the groups or sub-groups

[Login with ECAS](#)

If not a member of ECAS yet click the link

below:

[Register with ECAS](#)

Search



[Open group](#)

# Environmental Monitoring and Observations Cluster



Environmental Monitoring Facilities

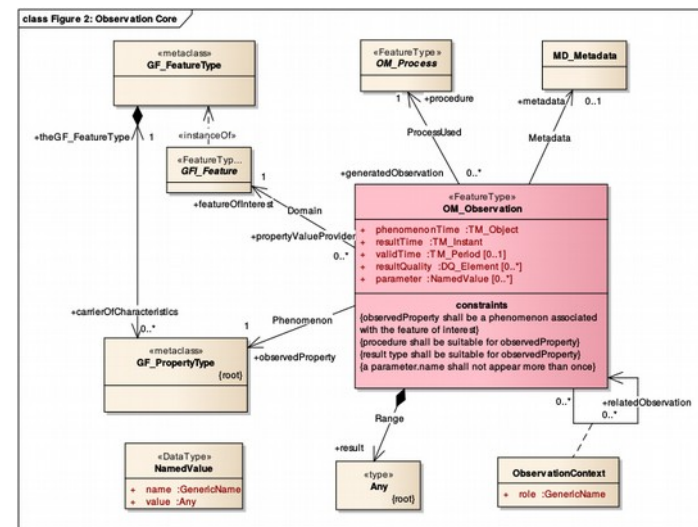
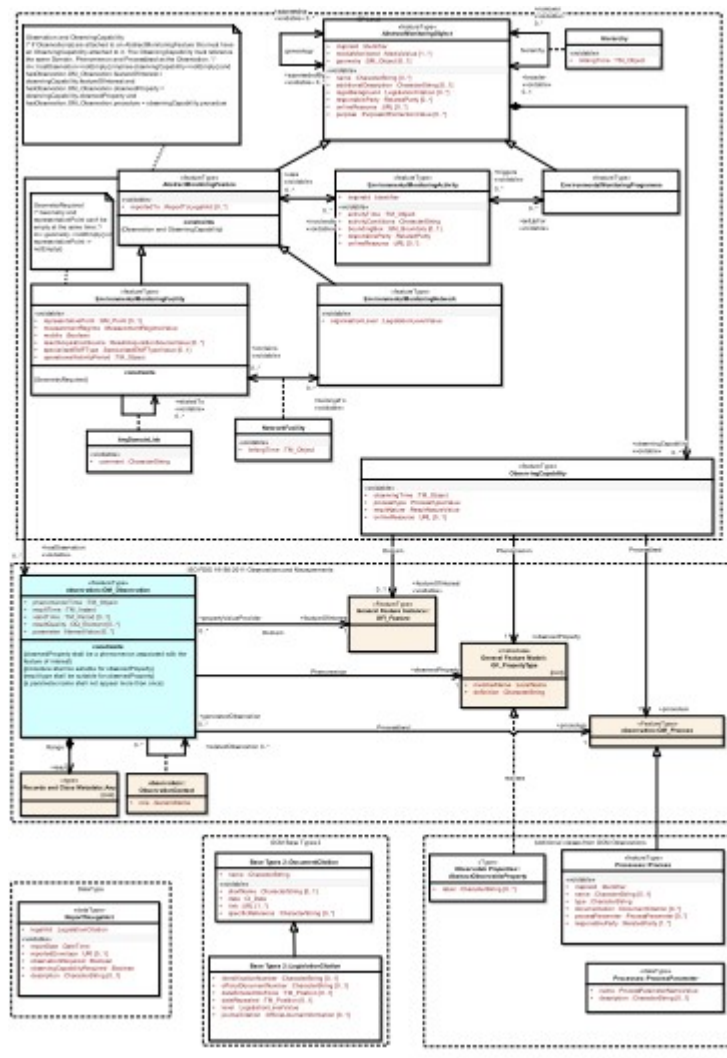


Observations and Measurements





# Why are EF and O&M together?



# Why are EF and O&M together?

- EF definition: “*Location and operation of environmental monitoring facilities **includes observation and measurement of ...***”
- In the EF data model there is explicitly the possibility to provide observations and measurement through Environmental Monitoring Facilities

# Cross-domain cluster

- *“the INSPIRE spatial data theme Environmental Monitoring Facilities (EF) is cross-cutting to any thematic area dealing with the environment”*
- INSPIRE themes where O&M is relevant:
  - Environmental monitoring facilities
  - Oceanographic geographical features
  - Atmospheric conditions and Meteorological geographical features
  - Geology
  - Soil

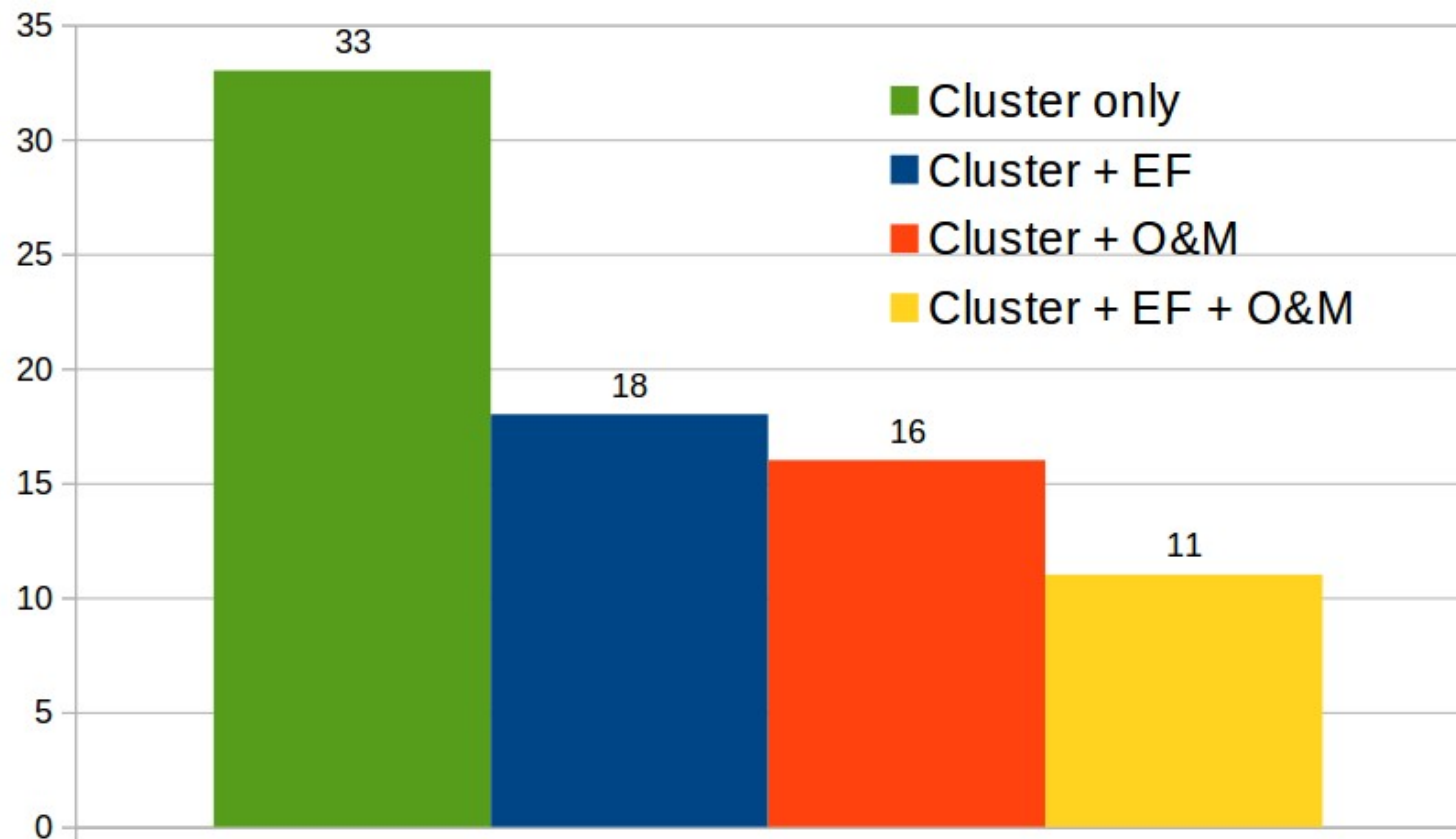
# Who are the members of the cluster?

- Cross-domain participation
  - **Pros:** multiple potentially interested communities
  - **Cons:** no specific or already established community
- Maybe (some of) you



# Members

- Cluster (56)
  - EF (19)
  - O&M (16)



# Discussions

- The most discussed topics are related with the understanding and tailoring of the O&M model in INSPIRE, how to use SOS services for environmental observations and measurements, and issues on identifiers and referencing.
- A few examples:
  - WFS vs. SOS
  - INSPIRE and Referencing
  - FoI Encoding

# How to participate

- Find good examples, best practices, useful tools, reference information
- Don't be shy, share doubts, problems: it's not an evaluation tool, it's a **collaboration** platform!
- Raise issues, highlight errors, criticize: the platform is there to provide but also to receive support
- And of course, **join the discussion**





## INSPIRE Thematic Clusters

### Environmental Monitoring and Observations Cluster



### Who has joined?



Members of communities and organizations across Europe, sharing a common interest in understanding and implementing INSPIRE concepts, standards and products:

- Users, technical experts, researchers and professionals dealing with the management and distribution of environmental observations
- National and European institutions representative with responsibilities to implement INSPIRE

**56 Members**

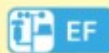
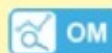


### What is discussed?

The Environmental Monitoring and Observation Cluster is the place to discuss the use, implementation, dissemination, understanding of the INSPIRE Theme "Environmental Monitoring Facilities" (EF) and issues related to the use of the "Observations and Measurements" (O&M) standard.

There are 18 discussions, most of them in the main cluster (10), dealing with various topics:

- Understanding and tailoring of the O&M model in INSPIRE
- Use of Sensor Observation Service (SOS) in INSPIRE
- Issues on INSPIRE identifiers and referencing
- Examples of EF related services
- Cross domain issues like using INSPIRE data models for reporting obligation under different policies (Air Quality, WFD, MSFD, WISE, SoE)
- Scope - matching data topics to INSPIRE themes
- Code lists



The INSPIRE Thematic Clusters Platform is a European Commission initiative, with the objective of supporting thematic communities in implementing INSPIRE.  
<https://themes.jrc.ec.europa.eu>



### Other content?

The cluster contains information on:

- best practices of the implementation of data models and services,
- information about software tools applicable in the scope,
- link to relevant projects and activities,
- relevant and useful documentation (presentations, workshop reports),
- news and upcoming events.

Environmental Monitoring Facilities data specifications and Observations and Measurements standard are both cross-thematic and have the aim to help different domain communities to serve environmental information and data. This is the reason why users from many different communities are very welcome to join the discussion and share information and experiences!



### What do they think?

*It seems this platform could really improve the experience of the INSPIRE Forum and bring thematic communities towards a concrete implementation of INSPIRE*

*We really need a place where users, national bodies, domain and technical experts can share information, experience and best practices on the implementation of INSPIRE*



### About the facilitator

Alessandro SARRETTA, PhD. in Env. Sciences, Researcher at CNR, Institute of Marine Sciences (Bologna). His main activities are related to management and processing of environmental data on marine/coastal areas, SDI, interoperability, Maritime Spatial Planning, open science/software. He facilitated the EF, OF, SR, AC-MF, O&M INSPIRE Thematic Working Groups.



JOIN the collaboration platform  
<https://themes.jrc.ec.europa.eu>  
select YOUR thematic cluster  
and SHARE your experience with the community



# Questions?



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