GEO
GROUP ON
EARTH OBSERVATIONS
OPEN DATA
& OPEN KNOWLEDGE
Workshop
Nils Hempelmann OGC – Location Innovation Academy

Academy Structure

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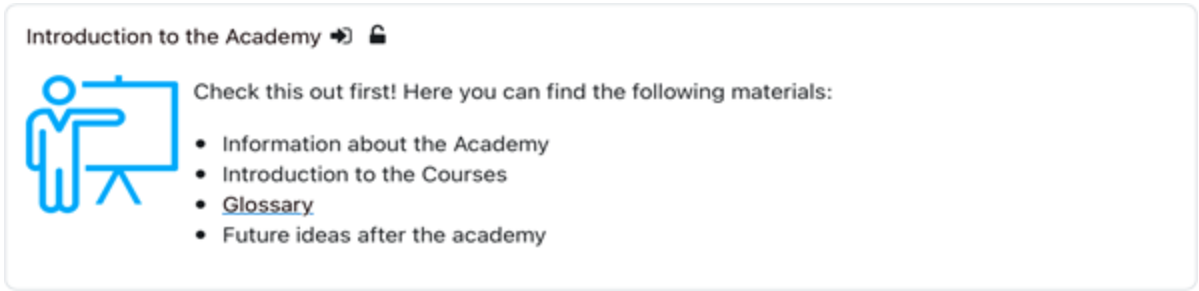
- https://academy.ogc.org/

Location Innovation Academy



Currently Three Clusters:

- Data Management
- Service Management
- Data and Service Integration

Data Management

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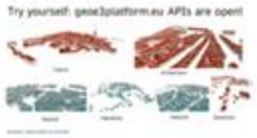
Data Management



Acquire, process, distribute, use, maintain, and preserve spatial data. This course includes modules that help you to improve the skills relating to SDI and develop your work. The modules include information, examples, standards and code practices. Material is targeted to developers working for National Mapping & Cadastral Agencies (NMCAs), statistic institutions and other agencies working with spatial and statistical data.

Including modules:

- Open Data and Licences
- Metadata, Semantic Enrichment and EDP
- Semantic Interoperability
- Data Quality Assurance
- Quality Dashboards

Open Geospatial Consortium

Service Management

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Service Management

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This course provides a comprehensive overview of the OGC API Standards and how they can be used to facilitate the interoperability of geospatial services.

The course includes multiple real-life use cases in addition to general overviews and technical descriptions. The learning materials are cumulative, so we recommend exploring them in the given order. But if you feel confident, feel free to dive into one module or study them all!

Including modules:

- Introduction to Standards
- Common aspects of the OGC API Standards
- Data Access Standards
- Other OGC API Standards

Data and Service Integration

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Data and Service Integration

GEOE3
A GEOSPATIALLY ENABLED ECOSYSTEM FOR EUROPE

The modules of this course are focusing on the integration of data and services. Material is targeted to developers working for National Mapping & Cadastral Agencies (NMCAs), statistic institutions and other agencies working with spatial and statistical data.

Including modules:

- Joining spatial and statistical data
- Meteorological data integration
- Applications for OGC APIs

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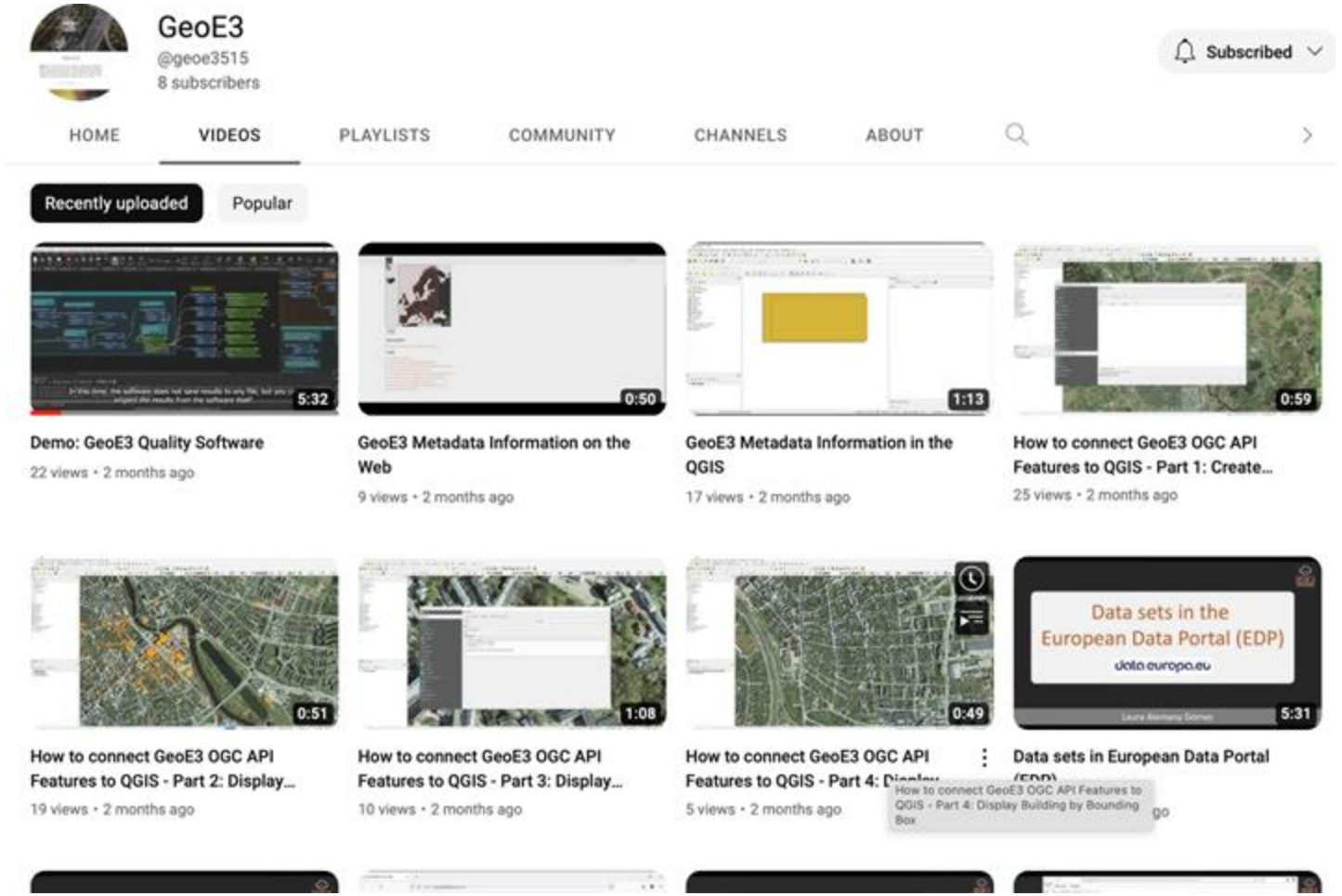
Youtube Channel

https://www.youtube.com/@geoe3515



Contributors

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Consortium of the GEOE3 project

- National Land Survey of Finland
- Finnish Meteorological Institute
- Statistics Finland
- Spatineo (Finland)
- Norwegian Mapping Authority
- Cadastre, Land Registry and Mapping Agency, The Netherlands
- Open Geospatial Consortium (OGC) Europe
- Centro Nacional De Información Geográfica, Spain
- Estonian Land Board
- Information Technology Center of the Ministry of the Environment Estonia
- Aventi Intelligent Communication Norway
- Direccion General Del Catastro, Spain

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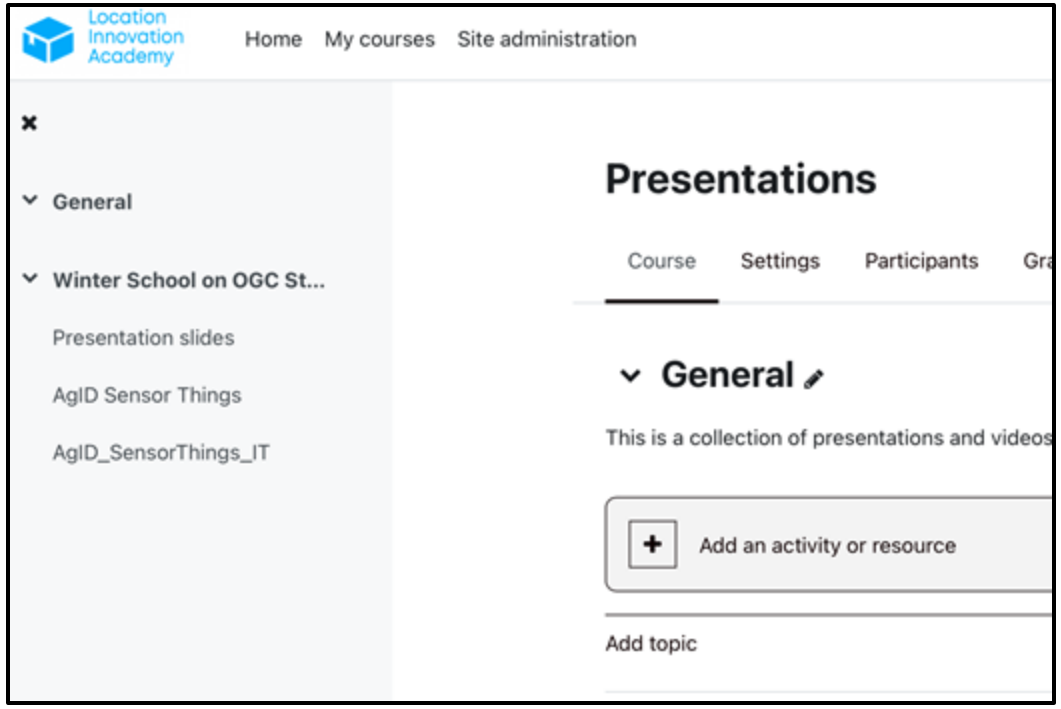
New Content



GEOE3 Academy - Module content format

Name of the module:	
Writers of the module:	

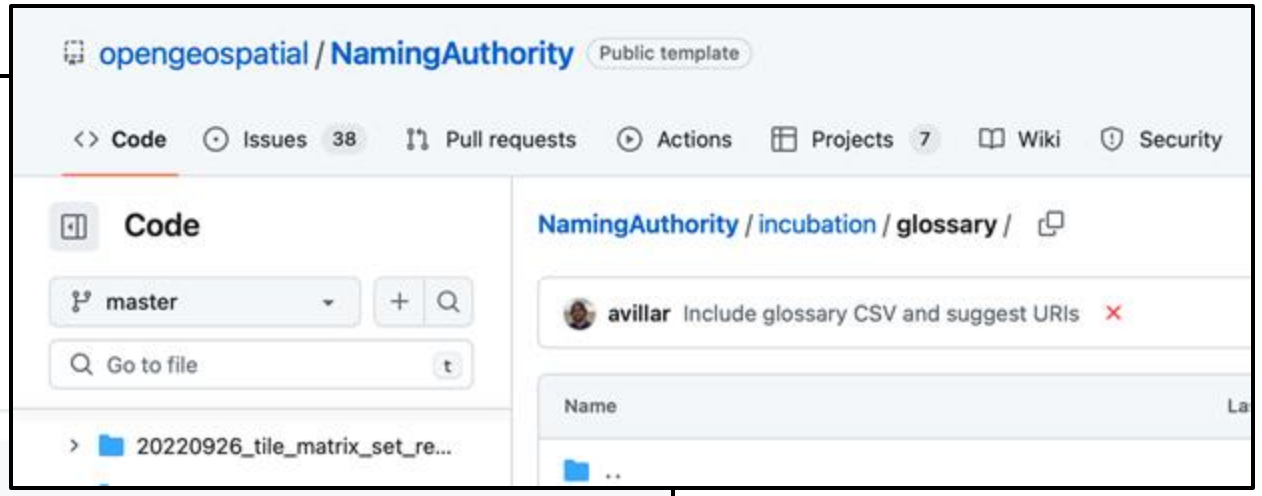
THIS TEXT GOES TO THE WEBSITE:

Module presentation: key message (3 sec)

Module presentation: summary of the content (30 sec)

Module presentation: data, statistic, prove – write a bullet list. Motivate the learner. (5 min)

Glossary



https://github.com/opengeospatial/NamingAuthority/tree/master/incubation/glossary

Introduction to the Academy / Glossary

URL

Glossary

URL Settings More

Mark as done

Glossary as defined by the OGC Naming Authority and stored in the OGC-Rainbow

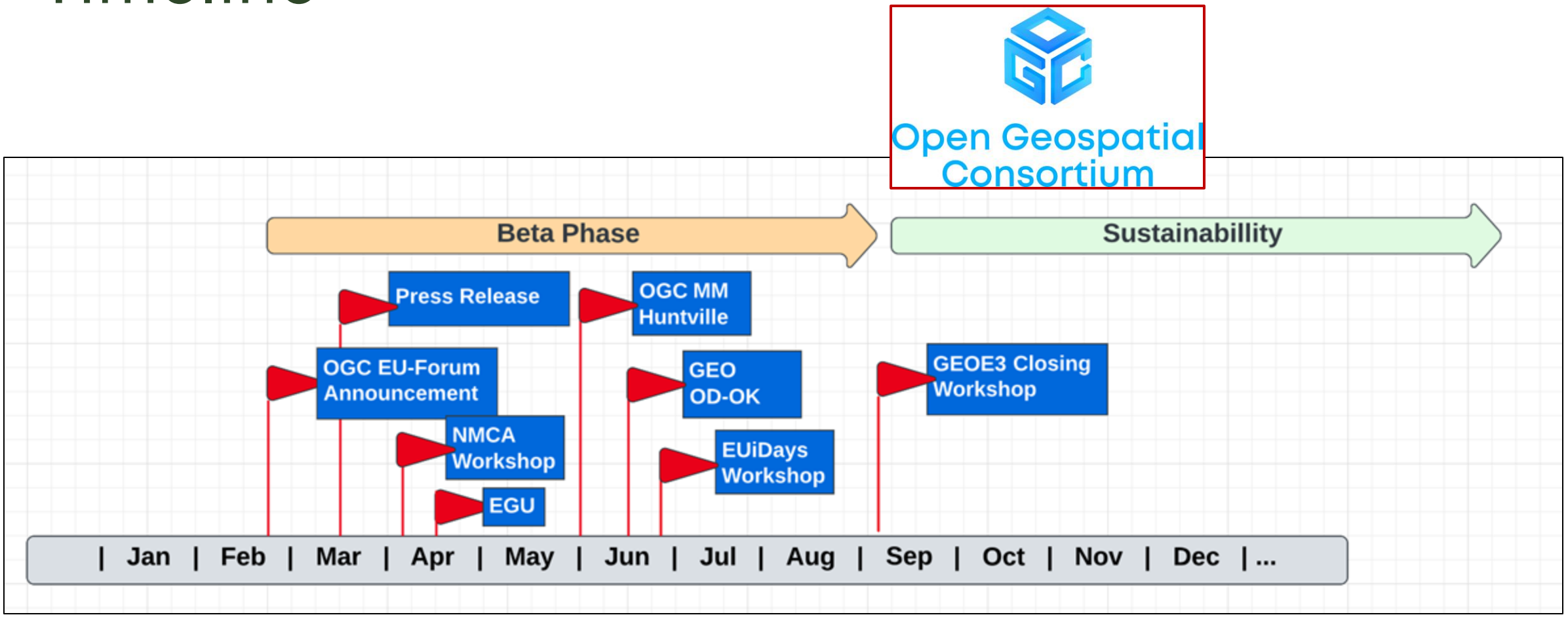
OGC Glossary

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Abstract Data Type
The basic information construct used by the GeoMobility Server and associated Core Services. Consists of well-known data types and structures for location information. Defined as application schemas that are encoded in XML for Location Services (XLS).

accuracy
The degree to which information on a map or in a digital database matches true or accepted values. Accuracy pertains to the quality of data and the number of errors contained in a dataset or map. In discussing a GIS database, it is possible to consider horizontal and vertical accuracy with respect to geographic position, as well as attribute, conceptual, and logical accuracy. The effect of inaccuracy and error on a GIS solution is the subject of sensitivity analysis. Accuracy, or error, is distinguished from precision, which concerns the level of measurement or detail of data in a database.

Timeline


Open Geospatial Consortium
Beta Phase
Sustainabillity
Press Release
OGC MM Huntville
OGC EU-Forum Announcement
GEO OD-OK
GEOE3 Closing Workshop
NMCA Workshop
EUiDays Workshop
EGU
| Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | ...
2023
2024

User groups

- Location Innovation community
- Universities - Academy
- UN Bodies
- GEO
- Stakeholders Policymaker
- National Mapping Cadaster Agencies
- Developers
- System Administrators
- ....

GEO Secretariat

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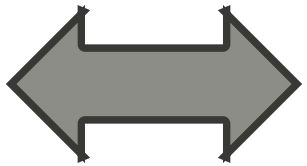
Potential to use the Academy for the Open Knowledge Hub



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LOCATION INNOVATION ACADEMY Statistics 6.6.2023

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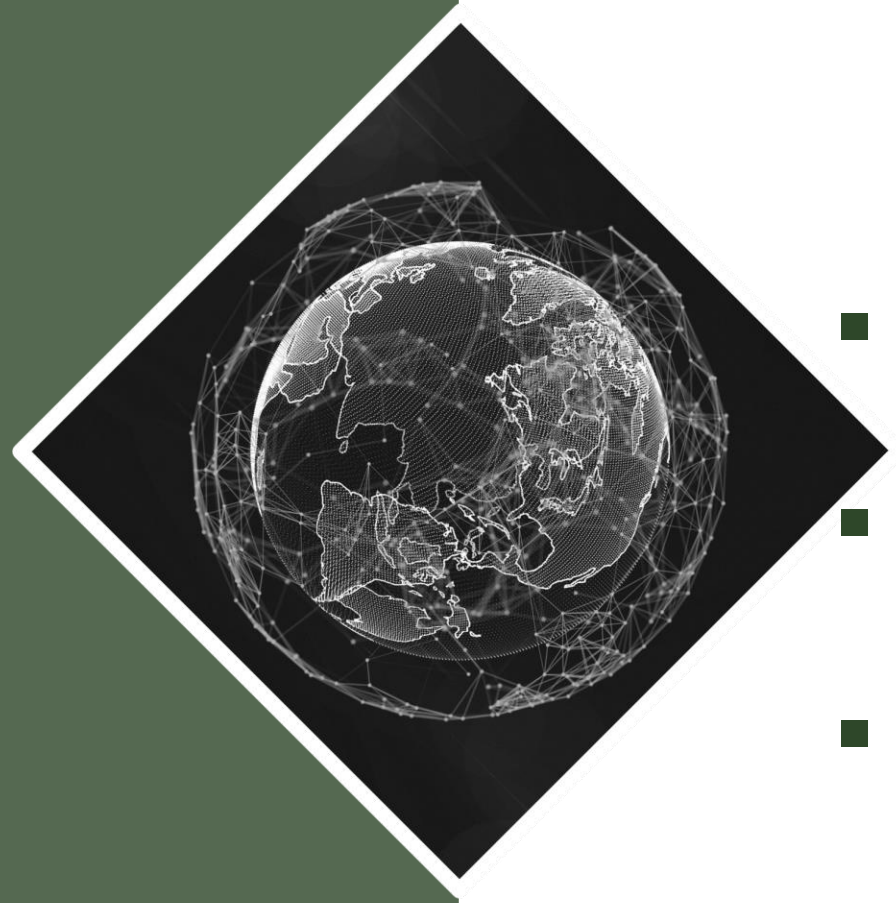
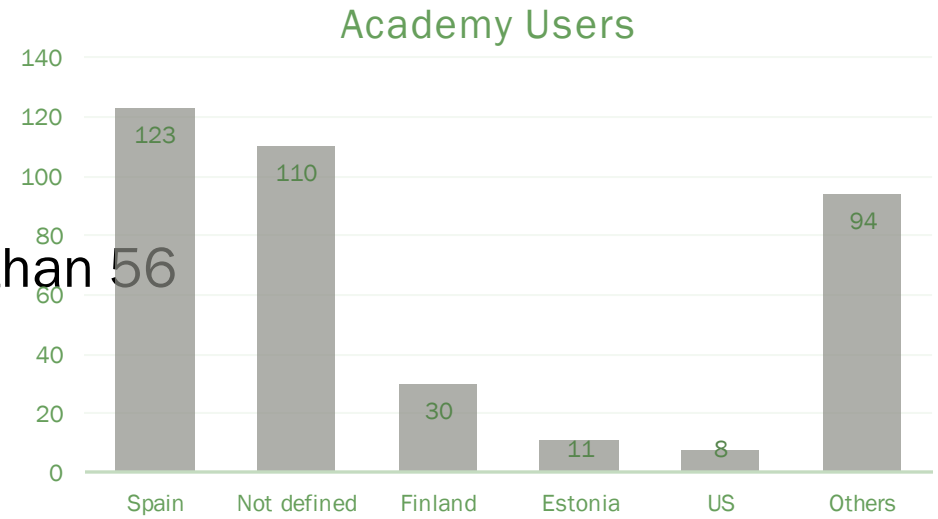


- 376 users from more than 56 countries
- Data Management

  158 users, 22 completed
- Service Management

  99 users, 13 completed
- Data and Service Integration

  88 users, 13 completed



First courses, modules and sections were the most popular ones

Let's take a Closer look at the modules

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	Module name	The most common section and its views	Feedback Answers
Data Management	Introduction	1. Introduction to Data Management 313 views by 118 users	5
	Open Data and Licences	1. Introduction to spatial data 278 views by 102 users	42
	Semantic Interoperability	2. Introduction to Interoperability 58 views by 22 users	12
	Data Quality Assurance	1. Data Quality 73 views by 39 users	21
	Quality Dashboards	1. Dashboards help understand data platforms 39 views by 15 users	7
	Metadata, Semantic Enrichment and EDP	1. Metadata Profiles and Associated Metadata Standards 203 views by 57 users	28
Service Management	Introduction to Standards	1. Interoperability and Standards 188 views by 52 users	26
	Common aspects of the OGC API Standards	1. OGC API Standards as Building Blocks for Geospatial Data 160 views by 41 users	18
	Data Access Standards	1. Introduction to OGC API Features 126 views by 31 users	16
	Other OGC API Standards	1. Introduction to OGC API Joins 98 views by 31 users	14
Data and Service Integration	Joining spatial and statistical data	1. Datasets in Data Joining 113 views by 44 users	16
	Meteorological data integration	2. Case Finland 73 views by 25 users	11
	Applications for OGC API's	1. The use and importance of service metadata in OGC API 127 views by 29 users	11

Conclusion of the given feedback

- Modules rating between 1-5, where 1 is bad and 5 is perfect:

  Not many 1/5 or 2/5 votes

  Average for the most modules is 4

- More than half of the feedback is written in Spanish
- Interactive tools and examples, such as tests, were asked multiple times
- A lot of very useful and professional feedback related to the contents
- Not many technical problems ☺

Do we have something to improve?

- I liked it as it gave a good overview of what open data is and why it is important for public organisations. I would have liked some examples or clarifications for the aspect of "organisational interoperability" in the section "Interoperability".
- Sería interesante en el apartado cuarto ampliar un poco más el contenido.
- no, really not
- Test of knowledge on what i learned
- 3. Interoperability - Semantic.. at Figure 2 'developing vocabularies' agree, but code lists with values are not vocabularies! Figure 3: The GML dataset is strange, not related to shape and a lot of xsi:nil = "true" Why?

Other comments?

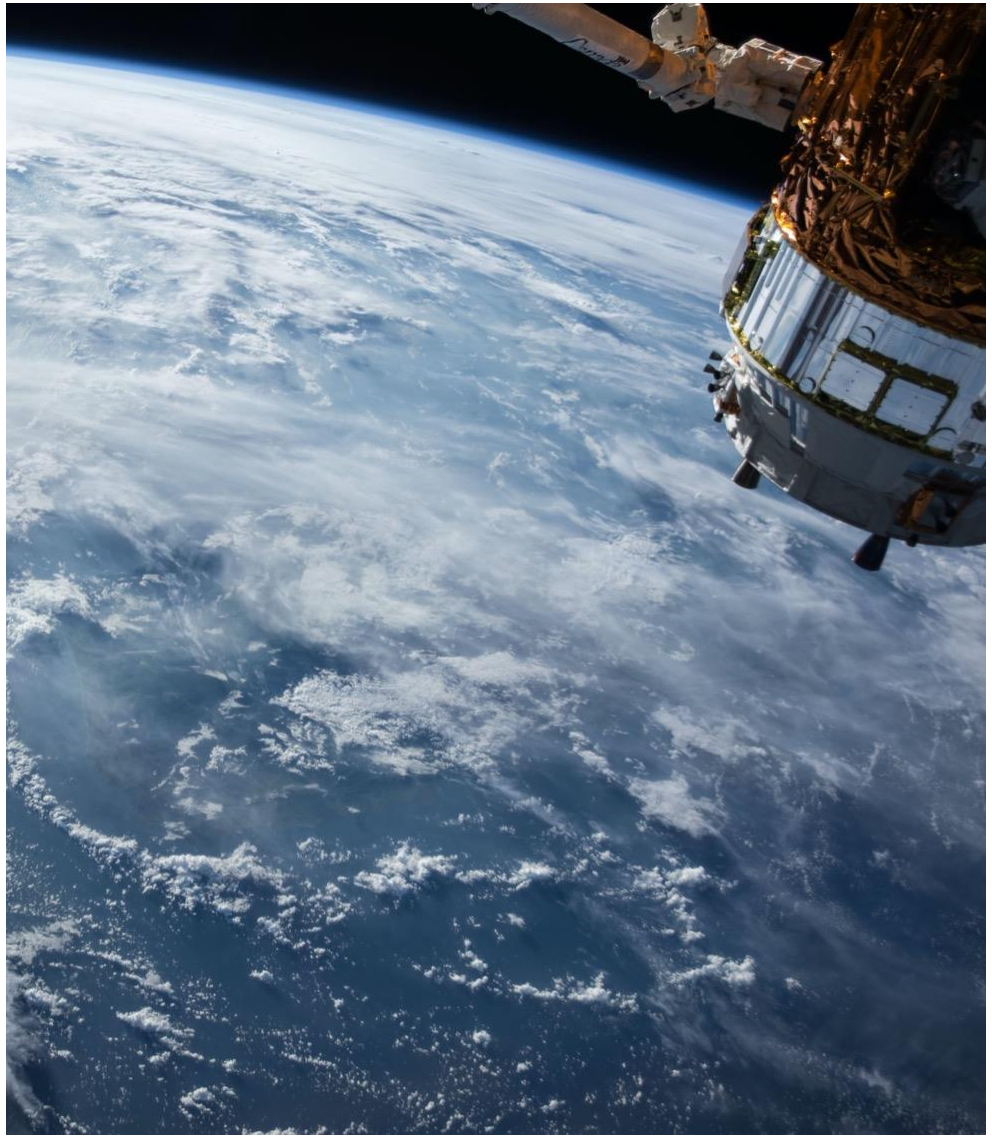
- I liked
- This module is very interesting because it has synthetically explained the importance of licenses and open data of all kinds.

Feedback of the ”Open data and Licenses” module, as an example

To be discussed

Can you suggest a good approach?

- **Quality ensure**
  - *Detect outdated content*
- **Contributors**
  - *How to become a trainer?*
  - *Who is allowed to provide content?*
- **Content**
  - *Size of the modules*
  - *Selection of topics*



Thank You

Community

500+ International Members

110+ Member Meetings

60+ Alliance and Liaison partners

50+ Standards Working Groups

45+ Domain Working Groups

25+ Years of Not for Profit Work

10+ Regional and Country Forums

Innovation

120+ Innovation Initiatives

380+ Technical reports

Quarterly Tech Trends monitoring

Standards

65+ Adopted Standards

300+ products with 1000+ certified implementations

1,700,000+ Operational Data Sets

Using OGC Standards

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CONTACT DETAILS

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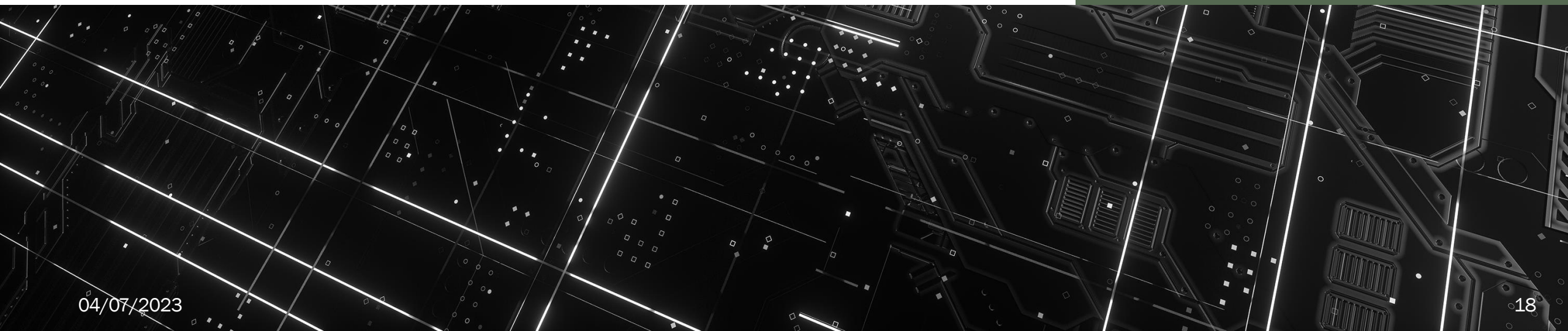
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