



Open
Geospatial
Consortium

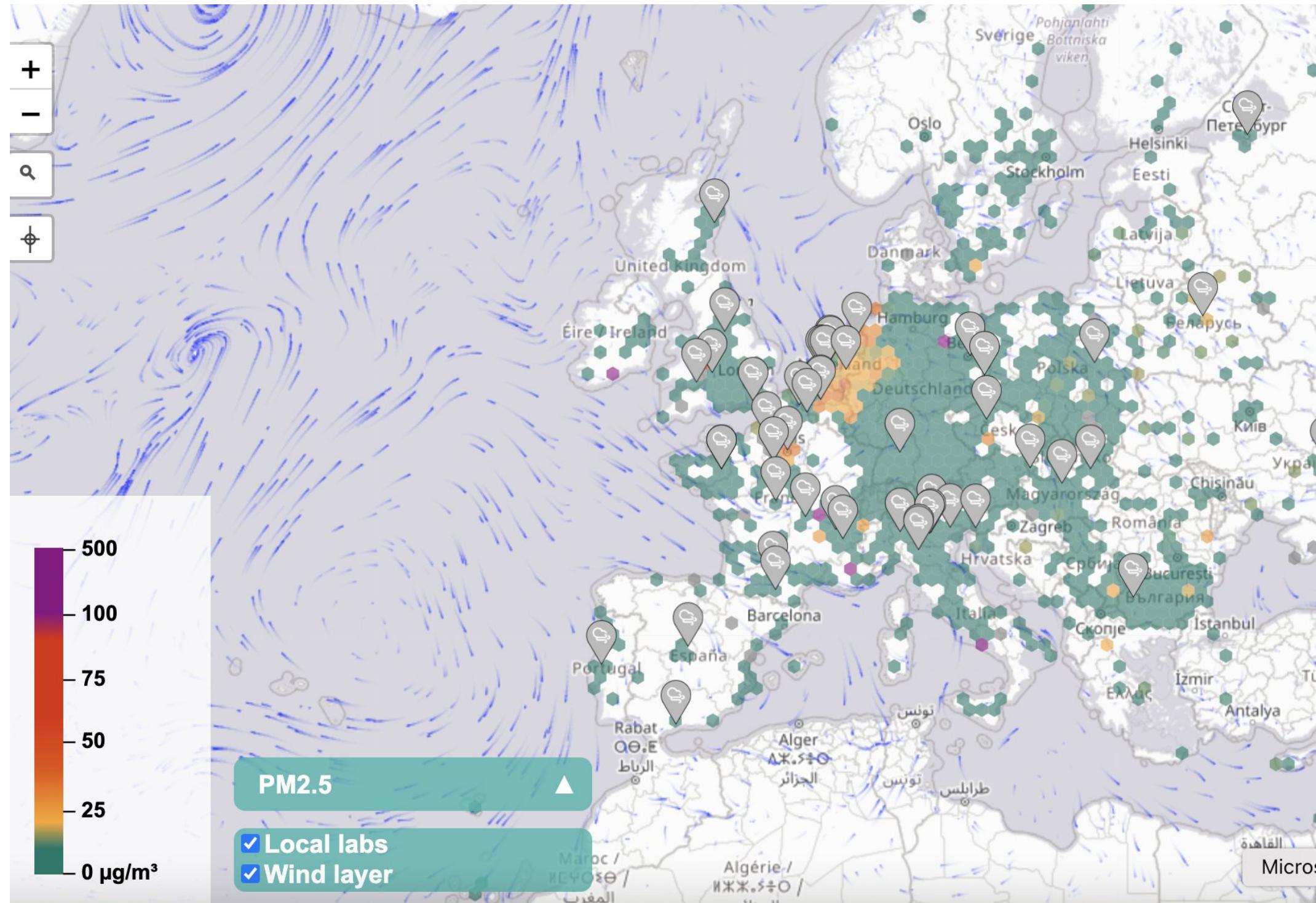
Open Standards Code Sprint

#Day 1 – Welcome Session

30th October, 2023



Motivation



Current values of sensors measuring air quality.
Source: <https://maps.sensor.community/#2/0.0/0.0>



Travel times across London. Source:
<https://movement.uber.com/>

The lack of interoperability can lead to less optimal solutions...





What is OGC?

A hub for thought leadership, innovation, and standards for all things related to location

Our Vision

Building the future of location with community
and technology for the good of society

Our Mission

Make location information Findable, Accessible,
Interoperable, and Reusable (FAIR)

Our Approach

A proven collaborative and agile process combining consensus-based
standards, innovation project, and partnership building

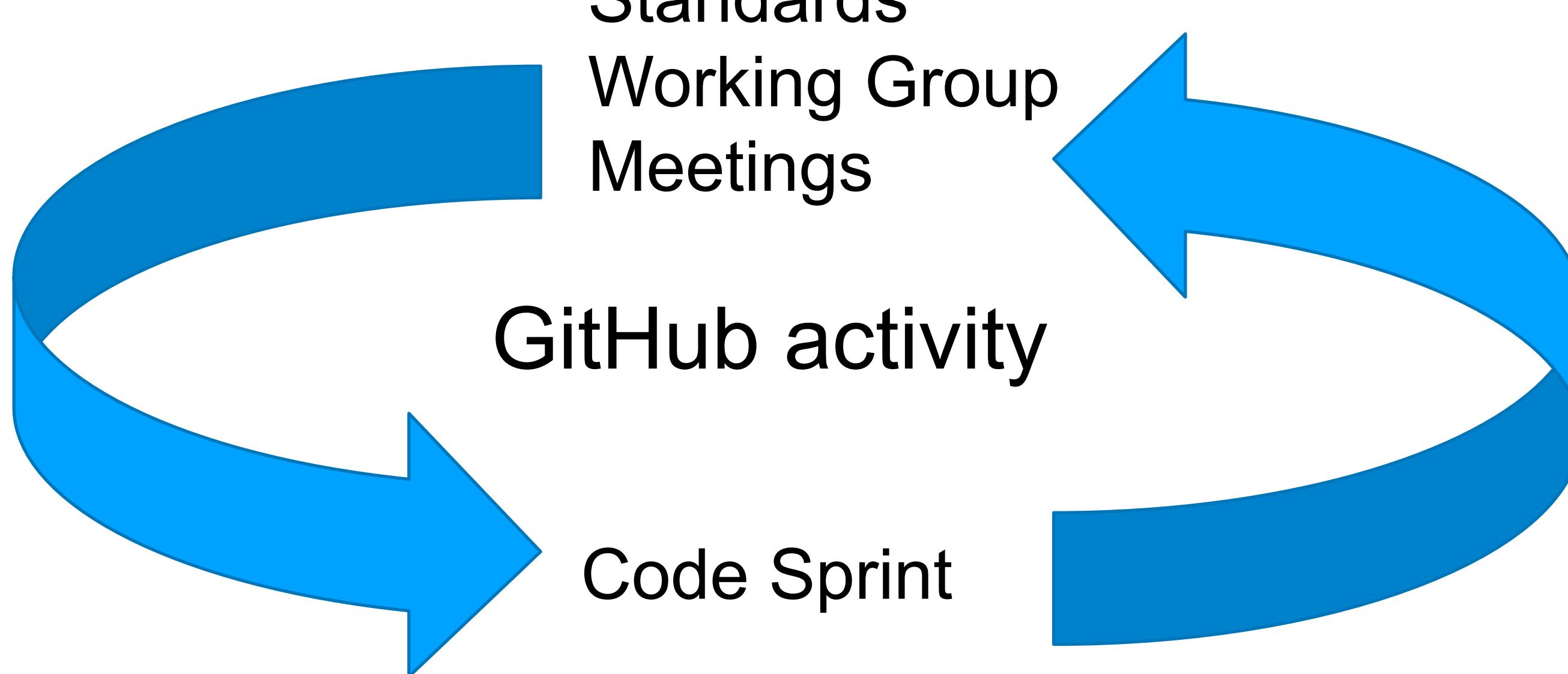
Some advantages of adopting OGC Standards

- Server side: enable a wide range of clients to consume services (e.g.: no need to create custom clients).
- Client side: being able to consume services from a wide range of servers (e.g.: add support to more sources with minimal coding).
- More data access, less coding.

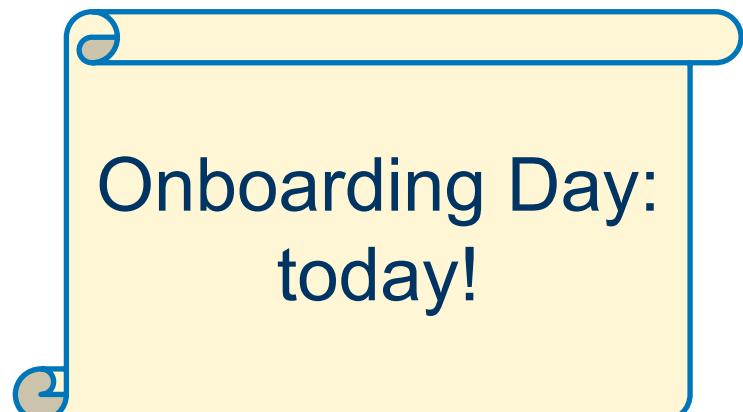


Image generated with DALL.E 2 :<https://openai.com/dall-e-2/>

OGC Code Sprints



- Support the development of the standards.
- Support the development of implementations of the standards.
- Create awareness about the standards.



Open Standards Code Sprint

Open to All OGC standards and more:

- OGC API - Tiles, Records, Processes, DGGS, Maps, Coverages, EDR, Features
- Sensor Things API
- GeoPose
- CDB
- JSON-FG
- Styles & Symbology
- MUDDI
- CityGML, IndoorGML, TrainingDML-AI
- GEOINT Imagery Media for ISR (GIMI),



Thank You!

Gold-level Sponsor:



Ordnance Survey

Silver-level Sponsors:



EUROPEAN UNION
SATELLITE CENTRE

Analysis for decision making

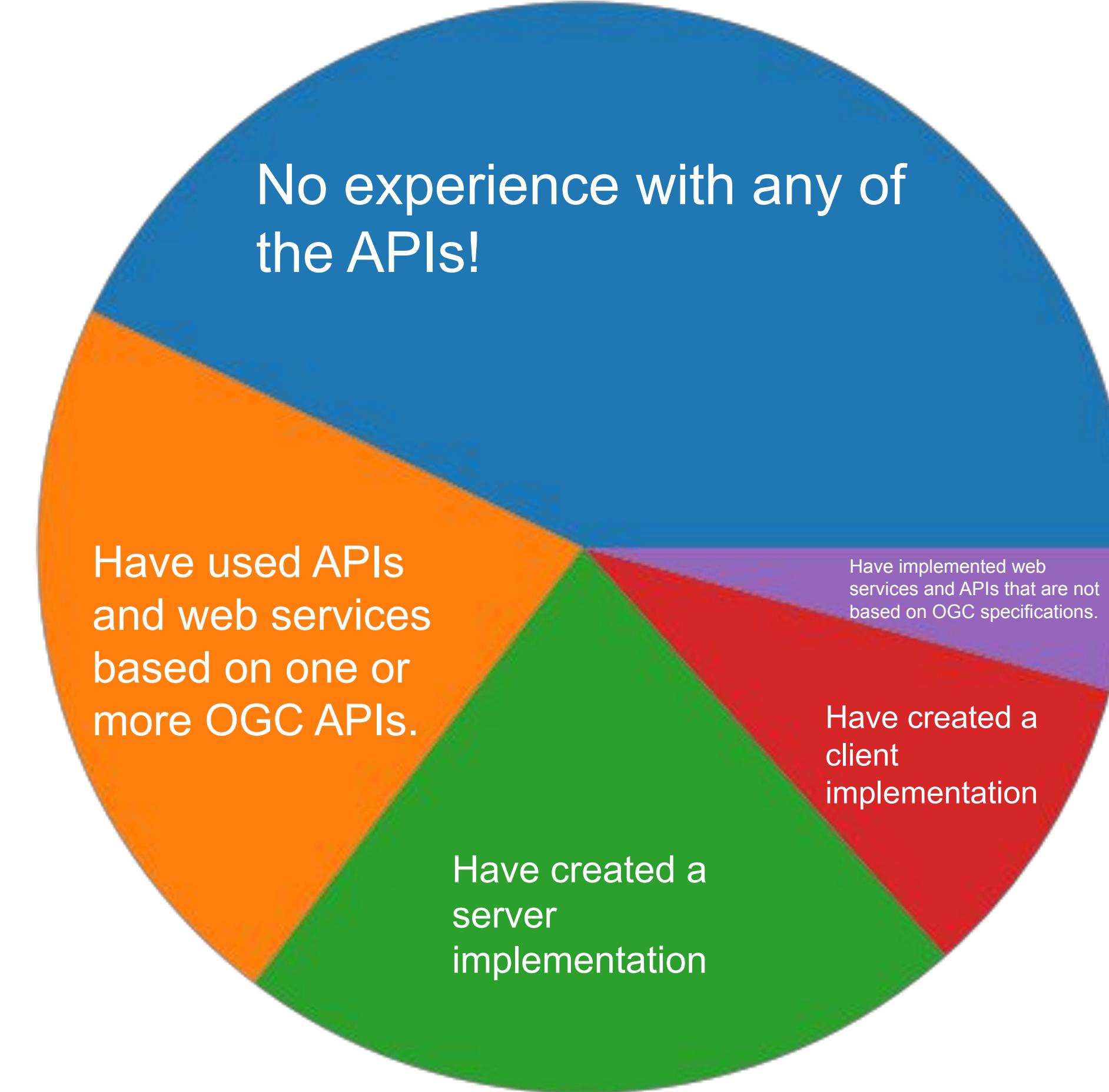
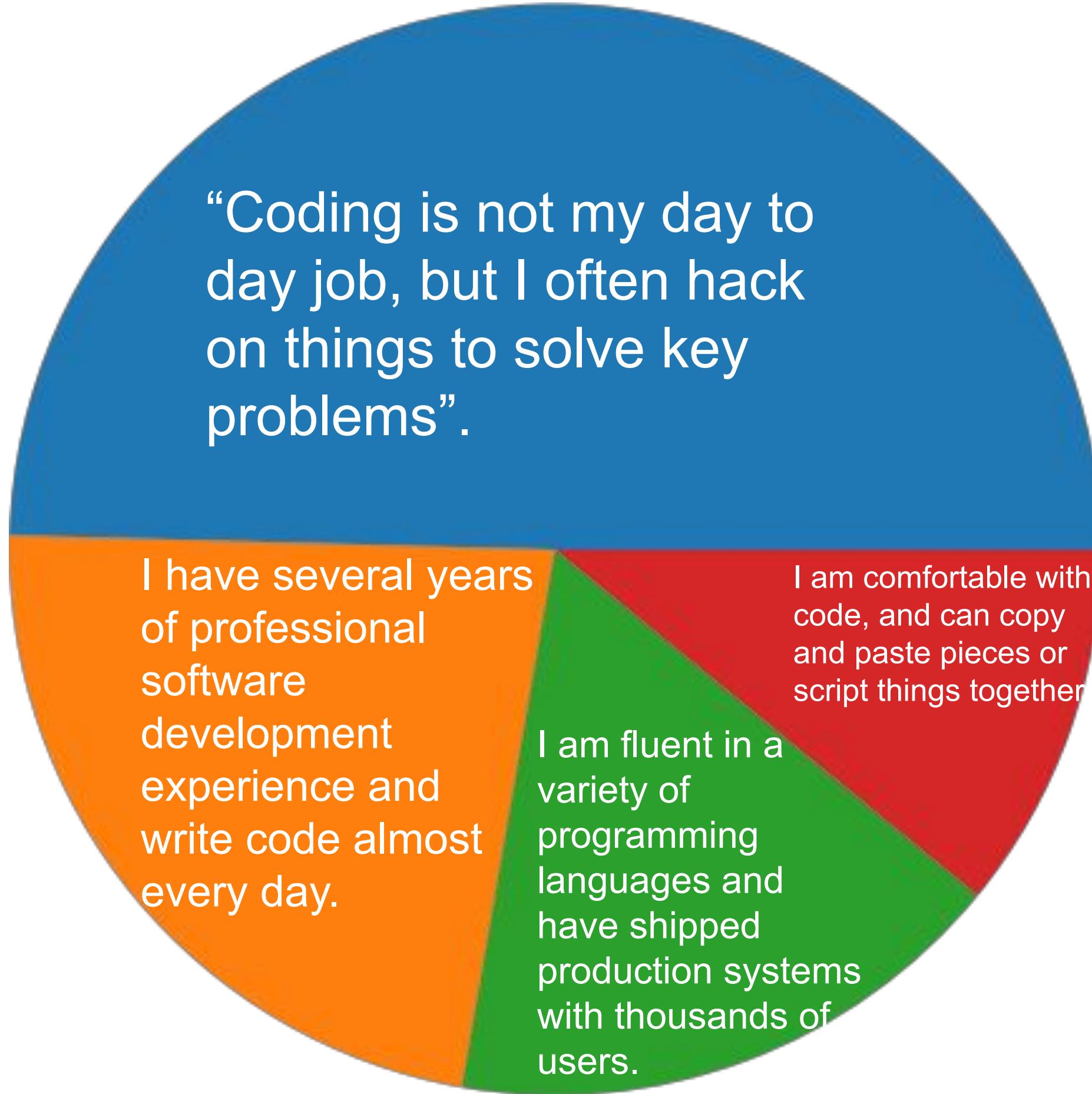


Host Remarks & Safety Briefing



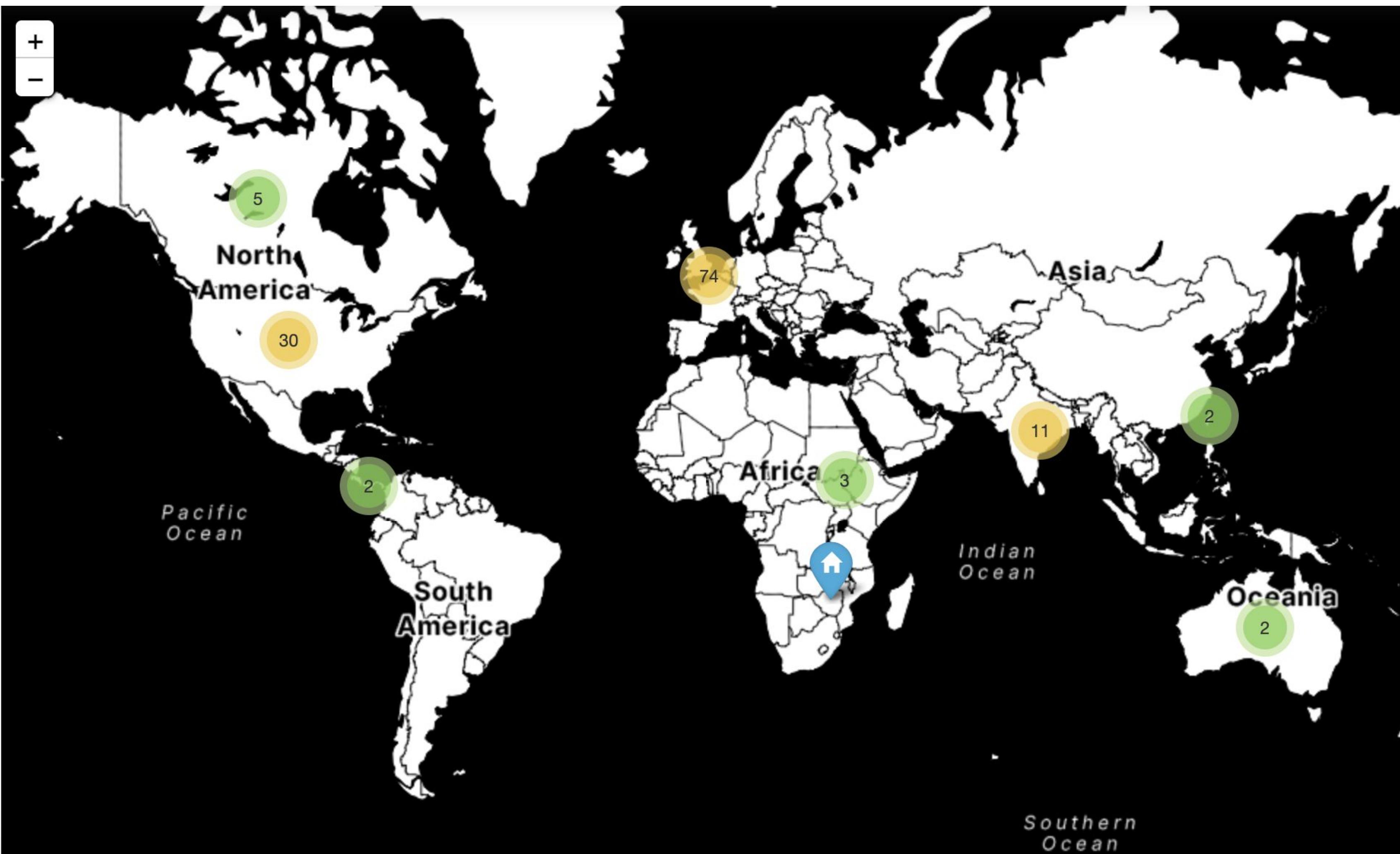
<https://geovation.uk/>

Who are the participants of this sprint?



Data from: 24/10/2023

Where do they come from?



Data from: 24/10/2023

What happens during the code sprint?



Discussions

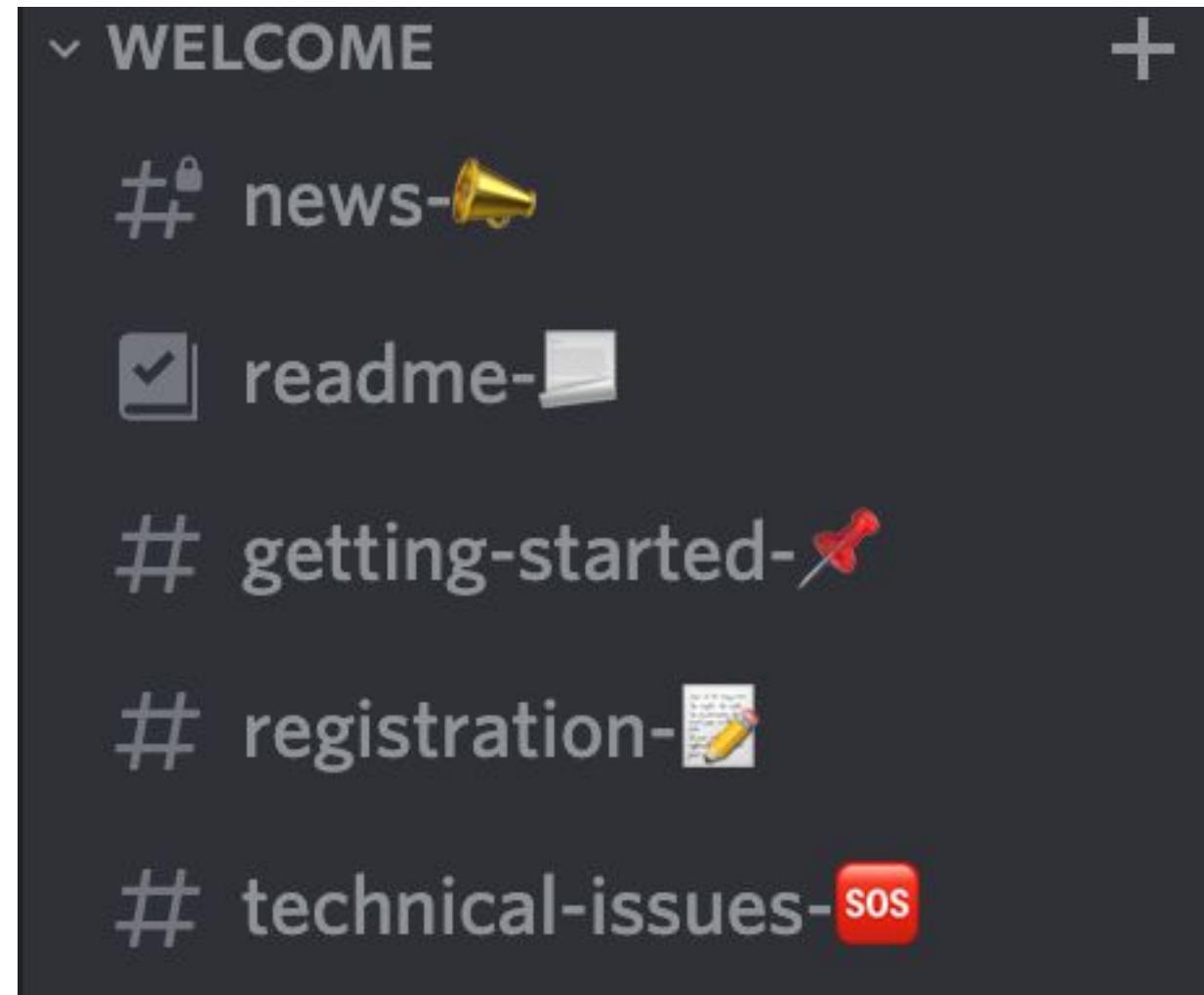


Independent Work

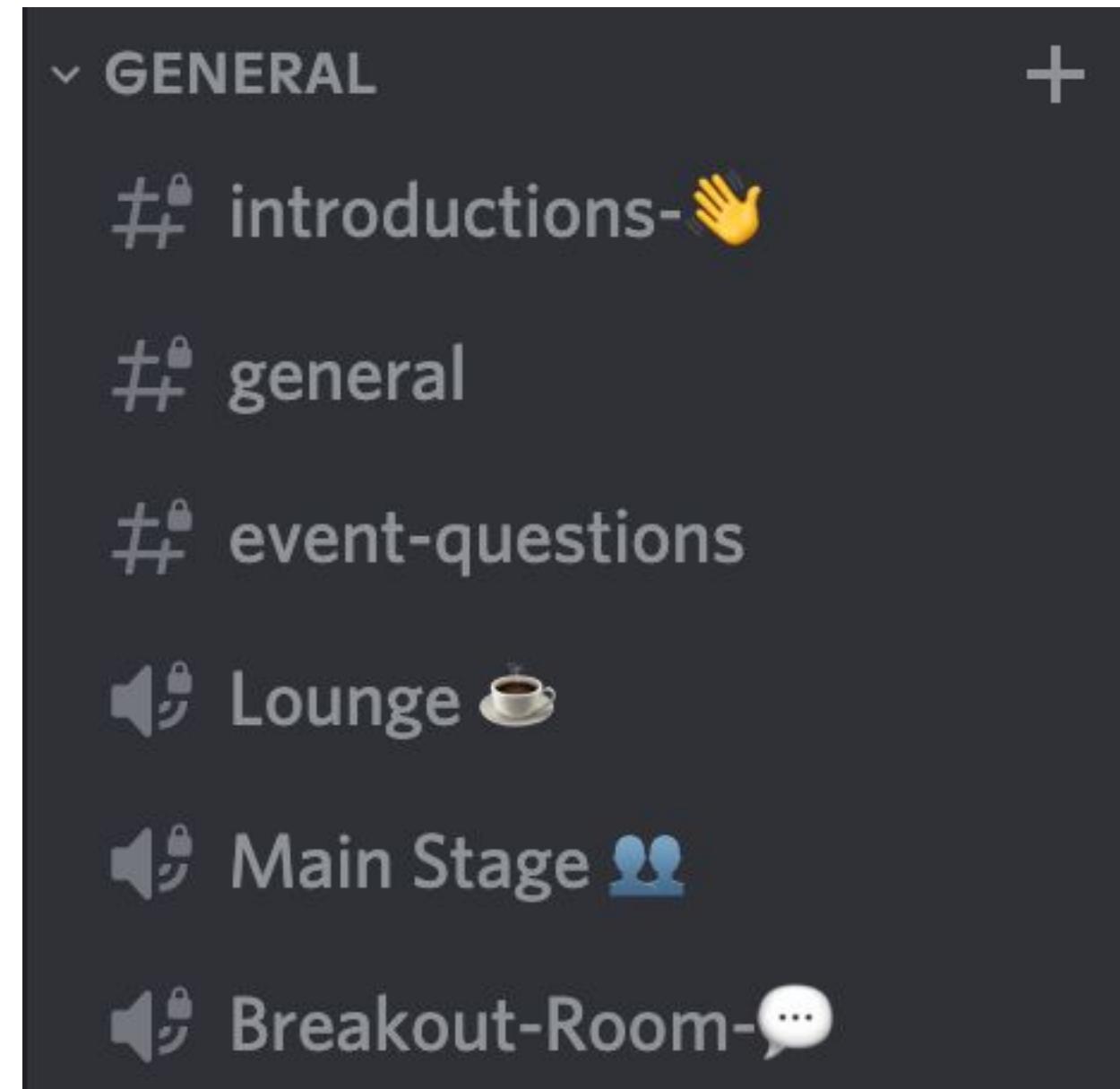


Mentor Stream

OGC Events Discord Server



Meta channels:
check-in and
general info

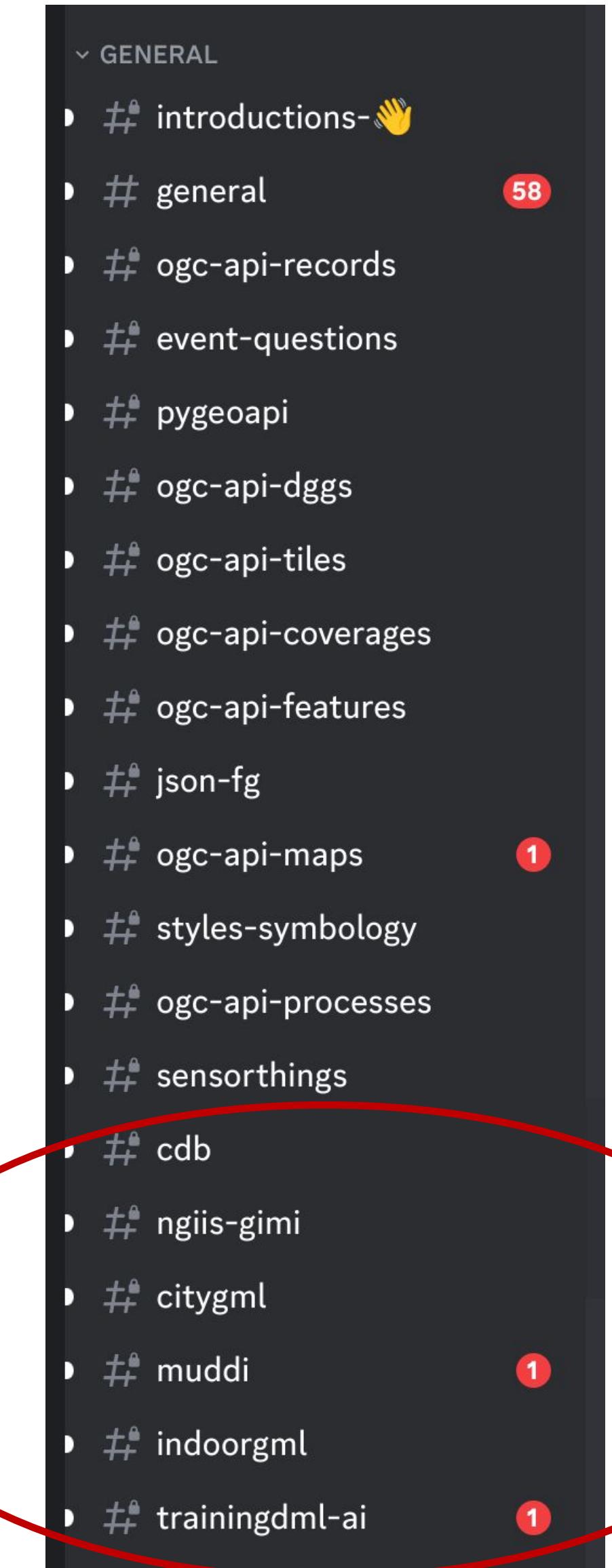
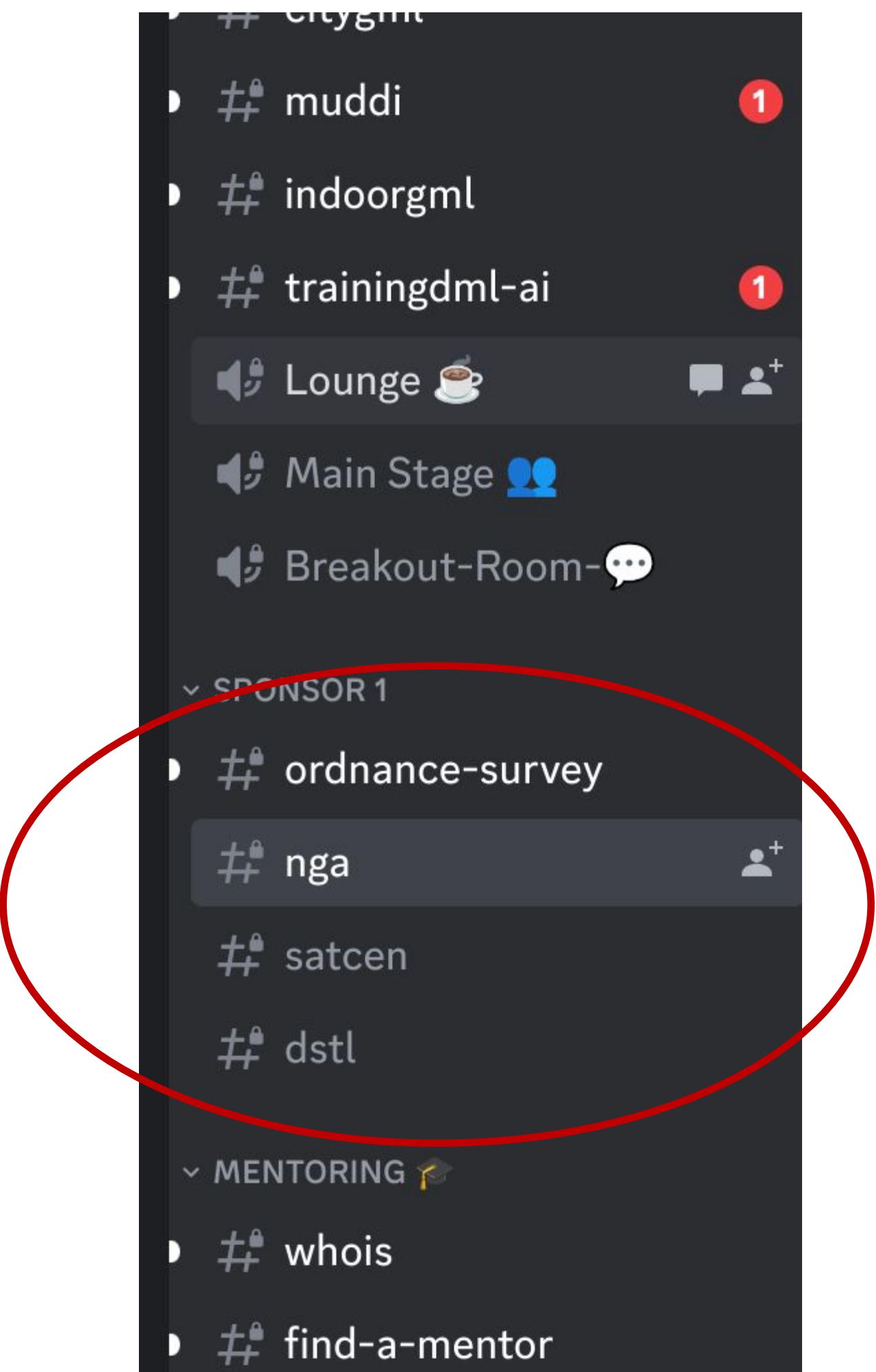


Mentor stream:
tutorials, 1:1
mentoring

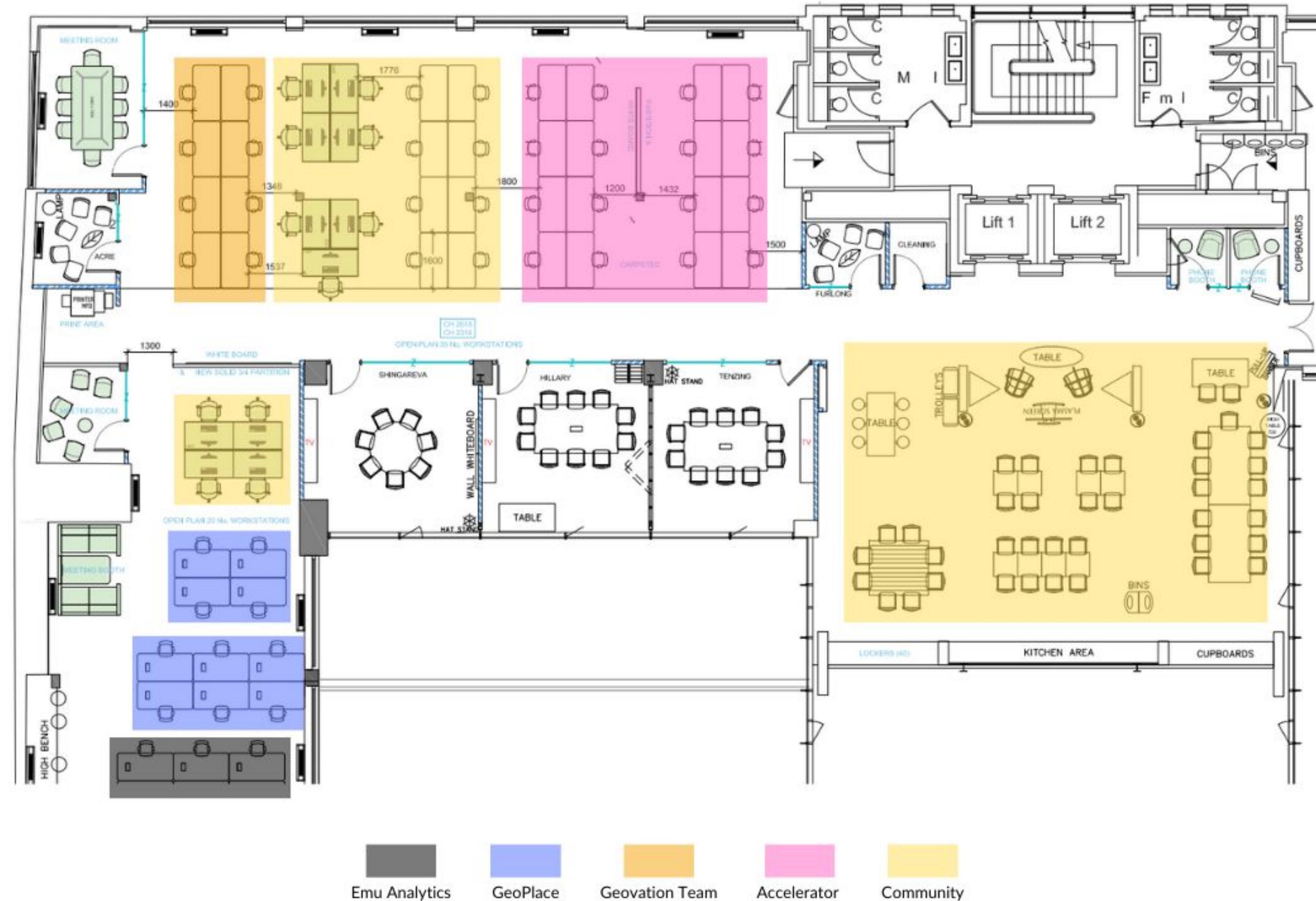


Matrix bridge: <https://matrix.to/#/%23ogc:matrix.org>

Added channels



GEOVATION HUB



Available rooms:
Quadrant,
Tenzing,
Shingareva,
Kitchen.
Please check
the schedule
for available
times!

Room Hillary will host the "COSI Future Innovation" discussion, except during the MUDDI breakout today at 11:30am UTC.

Tutorials 🎓 – Onboarding Day



Room Tenzing/ #Mentor Room

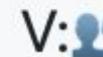
Day #1 - Monday, the 30th of October, 2023

2023-10-30		Day #1: Kick-Off		
	09:00 - 09:15	Welcome remarks from the Initiative Manager and Event Host	V:  #Main Stage	Quadrant
	09:15 - 09:30	Overview of OGC Standards - Gobe Hobona	V:  #Main Stage	Quadrant
	09:30 - 09:45	Introduction to MUDDI and NUAR - Amy Manefield and Carsten Roensdorf	V:  #Main Stage	Quadrant
	09:45 - 10:00	Introduction to the NGIIS GIMI Profile - Devon Sookhoo	V:  #Main Stage	Quadrant
	10:00 - 10:30	Q&A	V:  #Main Stage	Quadrant
	10:45 - 12:15	5-minute introduction per project or working group - more info	V:  #Main Stage	Quadrant
	11:30 - 12:30	Practical Work	V:  #Main Stage	Quadrant
	11:30 - 12:30	MUDDI Breakout session	V:  #Breakout Room	Hilary
	12:30 - 13:30	Lunch		Quadrant
	13:30 - 17:00	Practical Work	V:  #Breakout Room	Quadrant
	17:00 - 18:00	Early dinner		Quadrant
	18:00 - 20:00	Practical work	V:  #Breakout Room	Quadrant
	20:00 - 21:00	Sponsors Remarks and Daily Brief Back	V:  #Main Stage	Quadrant

Location on Discord

Location on Geovation

Day #2 - Tuesday the 31st of October, 2023

2023-10-31		Day #2		
	09:00 - 10:00	Practical work	V:  #Main Stage	Kitchen, Shingareva
	09:00 - 10:00	JSON-FG Breakout session	V:  #Breakout Room	Tenzing
	10:00 - 11:00	Stand-up & demos	V:  #Main Stage	Kitchen
	11:00 - 12:30	Practical work	V:  #Breakout Room	Kitchen, Tenzing, Shingareva
	12:30 - 13:30	Lunch		Kitchen
	13:30 - 17:00	Practical Work	V:  #Breakout Room	Quadrant, Tenzing, Shingareva
	17:00 - 18:00	Early dinner		Quadrant
	18:00 - 20:00	Practical work	V:  #Breakout Room	Quadrant, Tenzing, Shingareva
	20:00 - 21:00	Daily Brief Back	V:  #Main Stage	Quadrant

Day #3 - Wednesday, the 1st of November, 2023



2023-11-01		Day #3: Final Day		
	09:00 - 10:00	Practical work	V: #Breakout Room	Quadrant
	10:00 - 11:00	Stand-up & demos	V: #Main Stage	Quadrant
	11:00 - 13:00	Practical work	V: #Breakout Room	Quadrant
	13:00 - 14:00	Lunch		Quadrant
	14:00 - 15:00	Practical work	V: #Breakout Room	Quadrant, Tenzing
	15:00 - 17:00	Demos & Wrap-up	V: GotoMeet	Quadrant

Feel Free to add more items to the schedule

2022-07-14	Day #3: Final Day		
	05:00 - 07:00 EDT/ 11:00 - 13:00 CEST	Practical work	V:👤 #Breakout Room
	07:00 - 08:00 EDT/ 13:00 - 14:00 CEST	Stand-up & demos	V:🏛️ #Main Stage
	08:00 - 10:30 EDT/ 14:00 - 16:30 CEST	Practical work	V:👤 #Breakout Room
	10:30 - 11:00 EDT/ 16:30 - 17:00 CEST	Issues & concerns	V:🏛️ #Main Stage
	11:00 - 13:30 EDT/ 17:00 - 19:30 CEST	Practical work	V:👤 #Breakout Room
	12:00 - 13:00 EDT/ 18:00 - 19:00 CEST	Working group meeting	V:👤 #Breakout Room
	13:30 - 14:30 EDT/ 19:30 - 20:30 CEST	Demos	V:钲 GotoMeet
	14:30 - 15:30 EDT/ 20:30 - 21:30 CEST	Wrap-up	V:钲 GotoMeet

👉 Example from a previous schedule



Missed a session?

- Slides will be uploaded to GitHub.
- There will be a video recording of the demo session.
- There will be audio recordings for all the other sessions at the #Main Stage.

More Information

GitHub repo:

<https://github.com/opengeospatial/developer-events/>

Folder ➡️ 2023/Open-Standards-Code-Sprint

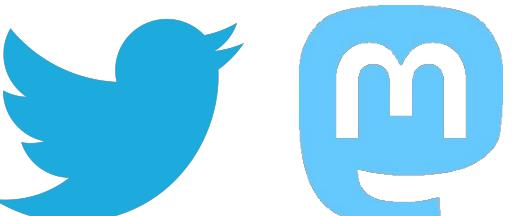
Wiki page:

<https://github.com/opengeospatial/developer-events/wiki/October-2023-Open-Standards-Code-Sprint>

Developer website:

<https://developer.ogc.org/>

Hashtags: #CODESPRINT22 #OGCAPI



#71

The screenshot shows a GitHub issue page for the repository `opengeospatial / developer-events`. The issue is titled "What is everybody going to be working on at the Open Standards Sprint? #71". It is an open issue with one comment. The issue was opened by `doublebyte1` on Jul 19, 2022, with 5 comments. The comment from `doublebyte1` on Jul 19 asks for others to post their work plans. The comment from `joanma747` on Jul 20 proposes a use case for STAplus involving electric buses and air quality sensors. The right side of the screen displays standard GitHub issue metadata: Assignees (No one assigned), Labels (None yet), Projects (None yet), Milestone (No milestone), and Development (No branches or pull requests).

What is everybody going to be working on at the Open Standards Sprint? #71

doublebyte1 commented on Jul 19

Post a comment letting us know what you are going to be working on :-)

joanma747 commented on Jul 20 · edited

We would like to propose a STAplus use case that allows for restricted data sharing based on a business contract. The storyline of the use cases goes as follows:

A bus company in Milan has a new set of electric buses to operate and partially replace diesel buses. The DPD courier company has a fleet of vans that mount air quality sensors. This data is stored in a STAplus (Party=DPD) as non-validated. Anonymous users can only get access to validated data released with some delay. In the AirQuality data space the bus company contracts the DPD to share the data in real time with the bus company in exchange for money. This data is used to create operational routes for electric buses in the areas that are more polluted. The bus company can use other sources of AirQuality "for free" as citizen science data according to the licences (without any contract).

New issue

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
No branches or pull requests

Agenda

- Overview of OGC Standards (15 mins) - Gobe Hobona
- Introduction to MUDDI and NUAR (15 mins) - Amy Manefield and Carsten Roensdorf
- Introduction to the NGIIS GIMI Profile - Devon Sookhoo
- Q&A

Overview of OGC Standards

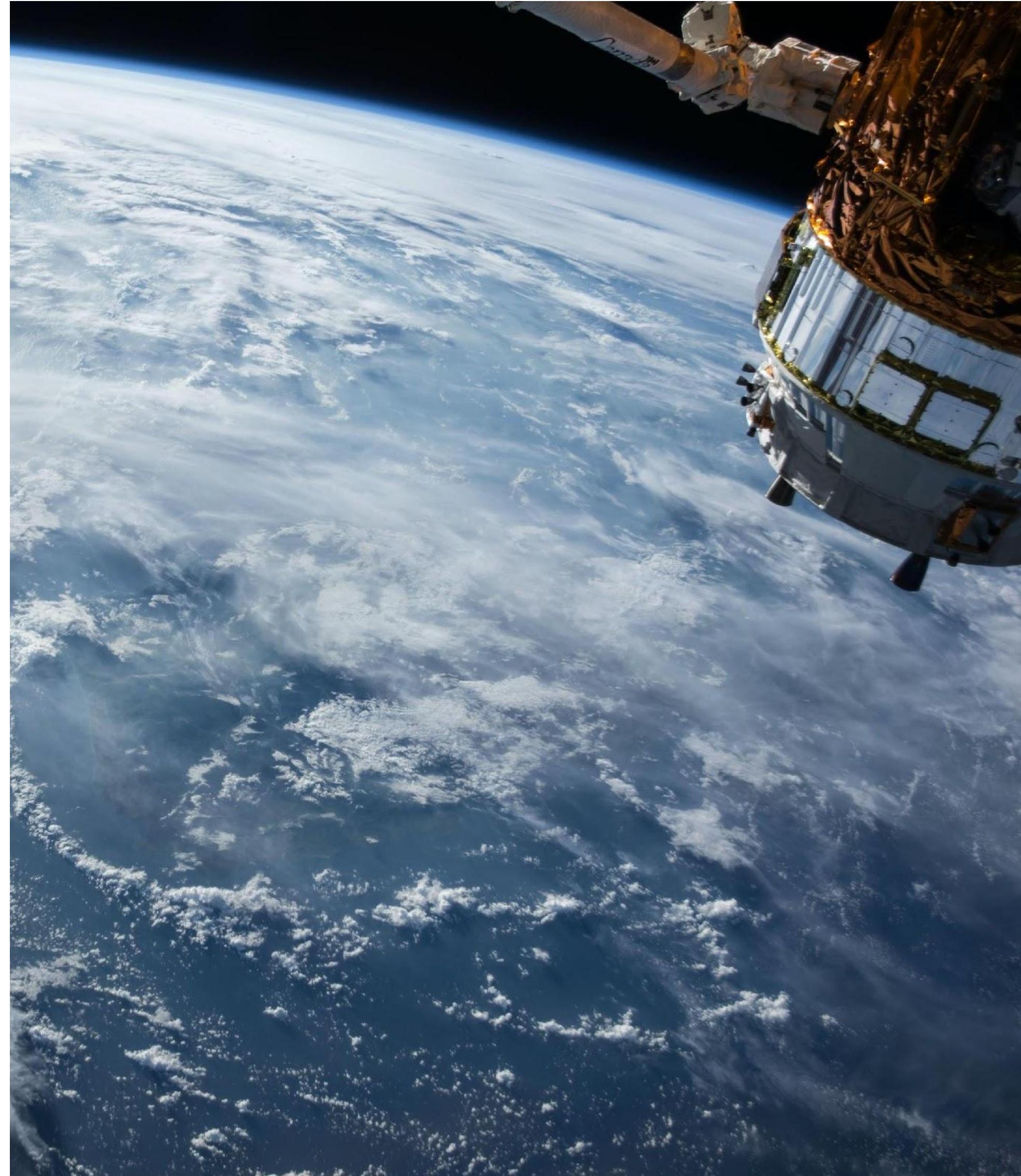
An aerial photograph taken from an airplane window, showing a vast landscape below. The terrain is covered in patches of white snow, likely a winter scene. In the distance, a range of mountains with snow-capped peaks is visible. The sky above is a clear, pale blue. The overall image has a slightly hazy, atmospheric quality typical of air travel.

Introduction to MUDDI and NUAR

An aerial photograph taken from an airplane window, showing a vast landscape below. The terrain is predominantly white and light blue, indicating a heavy snow cover or ice. In the distance, there are dark, jagged mountain peaks. The sky above is a clear, pale blue. The overall scene suggests a cold, possibly Arctic or mountainous region viewed from high altitude.

Introduction to the NGIIS GIMI Profile

An aerial photograph taken from an airplane window, showing a vast landscape below. The terrain is covered in patches of white snow and green vegetation. In the distance, a range of mountains with snow-capped peaks is visible. The sky above is a clear, pale blue. The overall scene suggests a cold, possibly Arctic or mountainous region viewed from high altitude.



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



Questions?



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