



Open
Geospatial
Consortium

Vector Data Code Sprint

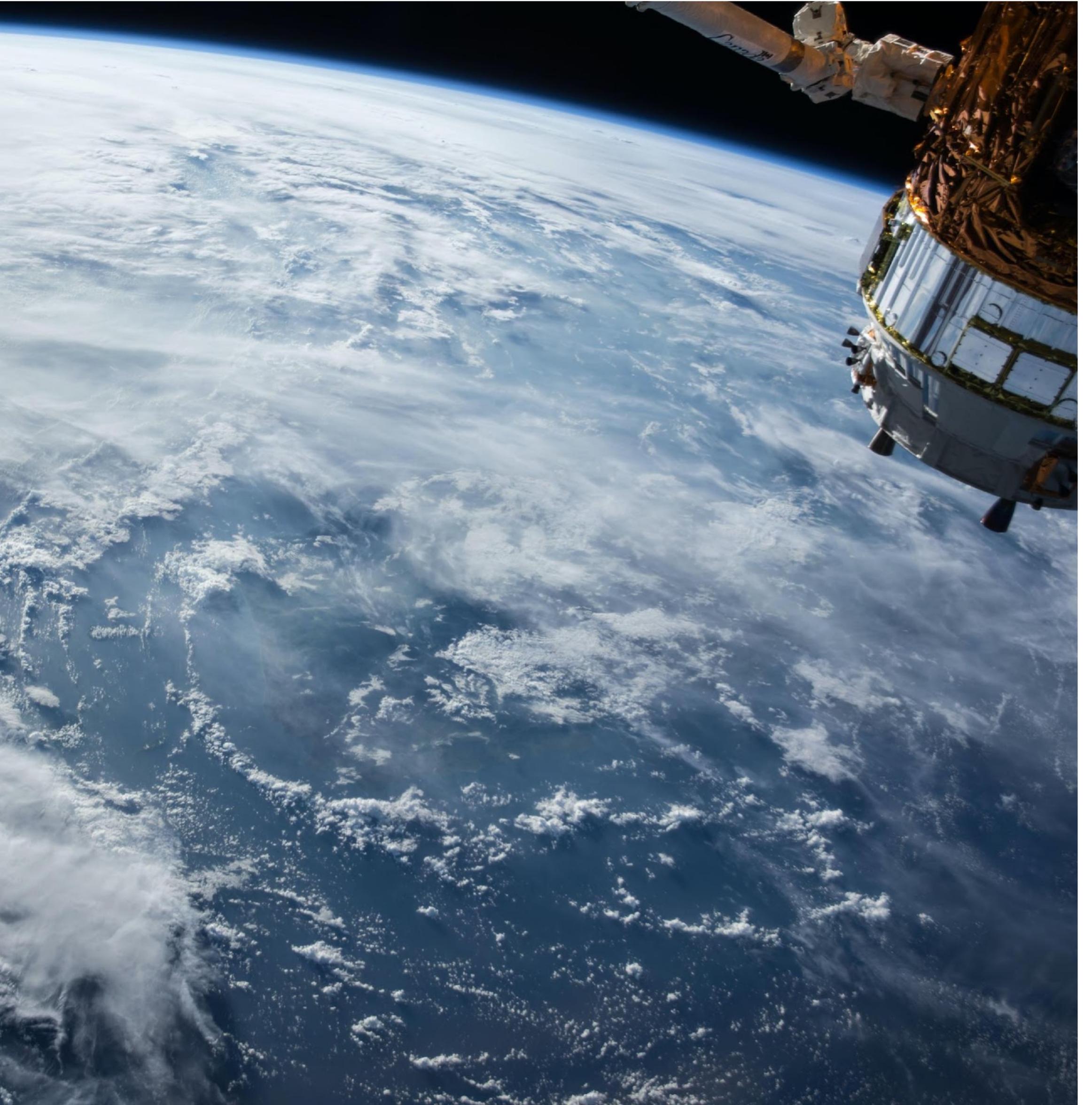


#Day1 - Kick-off

12-14th July, 2022

Agenda

- Welcome Remarks
- Sprint Goals
- Q & A





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



Who Are Our Members?

Commercial

Business Development

Global: Brand Exposure

Competitive Technical Advantage

Funding for Innovation

Government

Innovation & Market Support

International Partnerships

Trusted Advice

Operational Policy

Support & Certification

Research & Academia

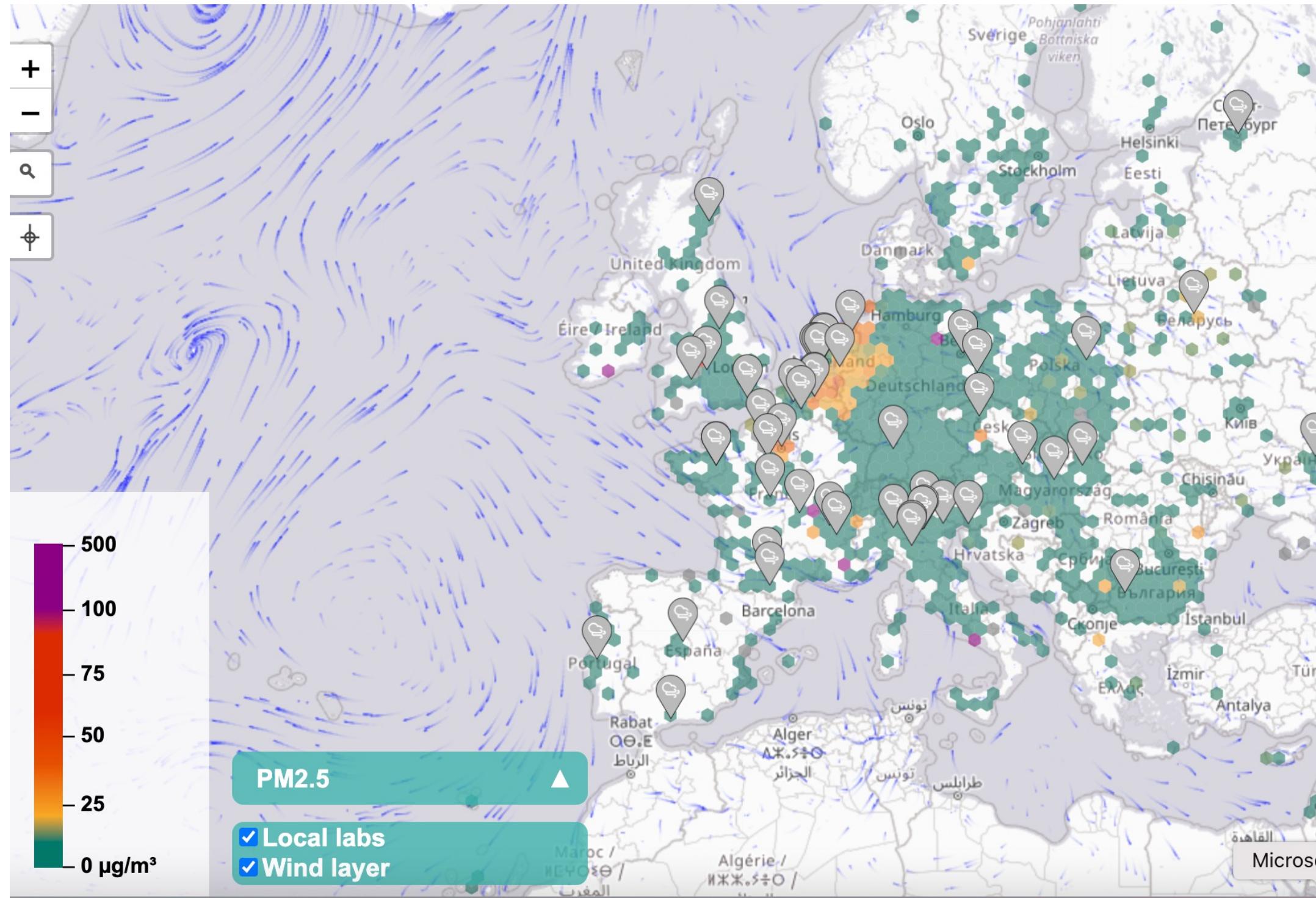
Applied Research Partners

International Collaboration

Funding for Innovation

Citations

Motivation



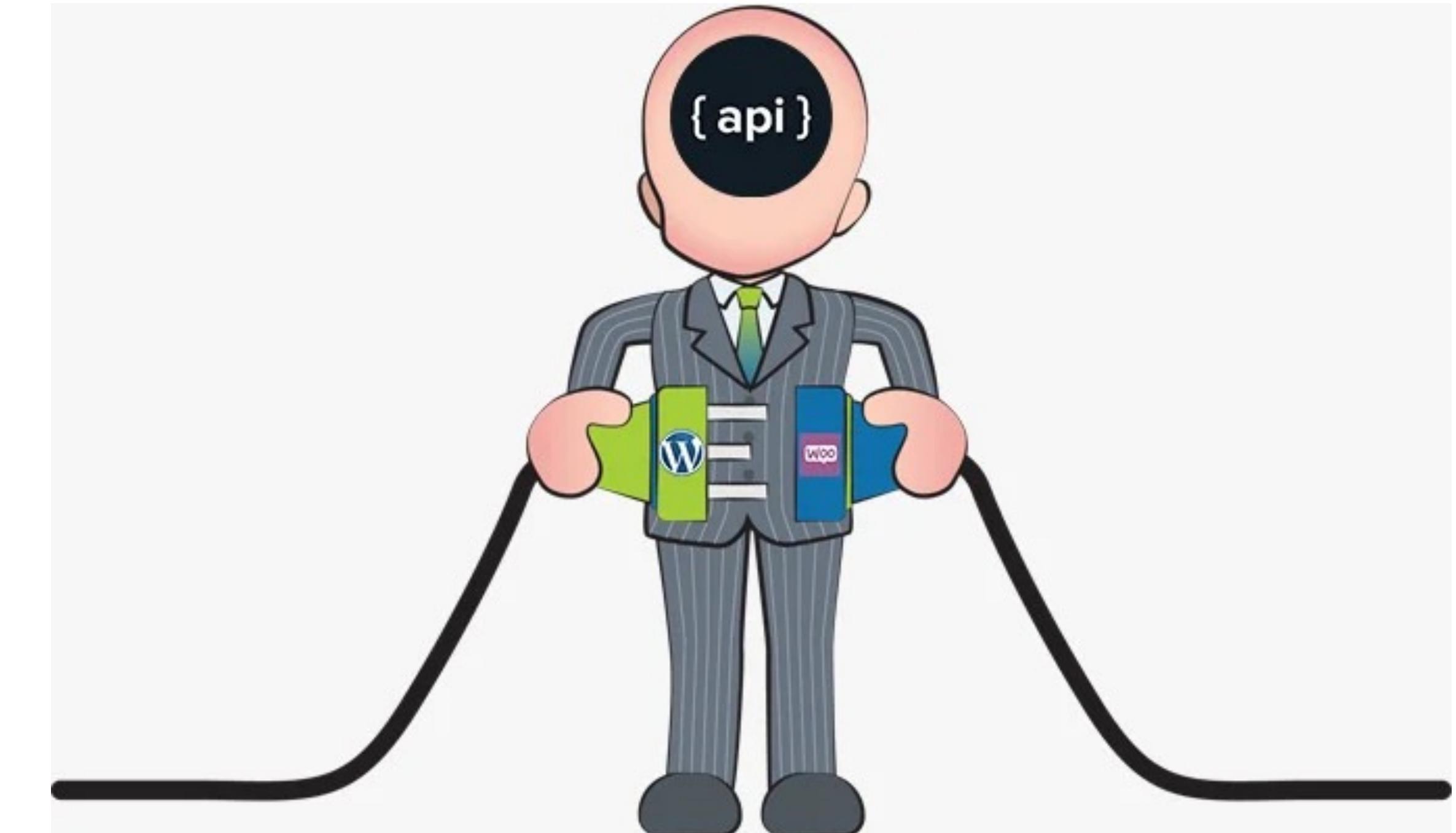
Current values of sensors measuring air quality.
Source: <https://maps.sensor.community/#2/0.0/0.0>



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

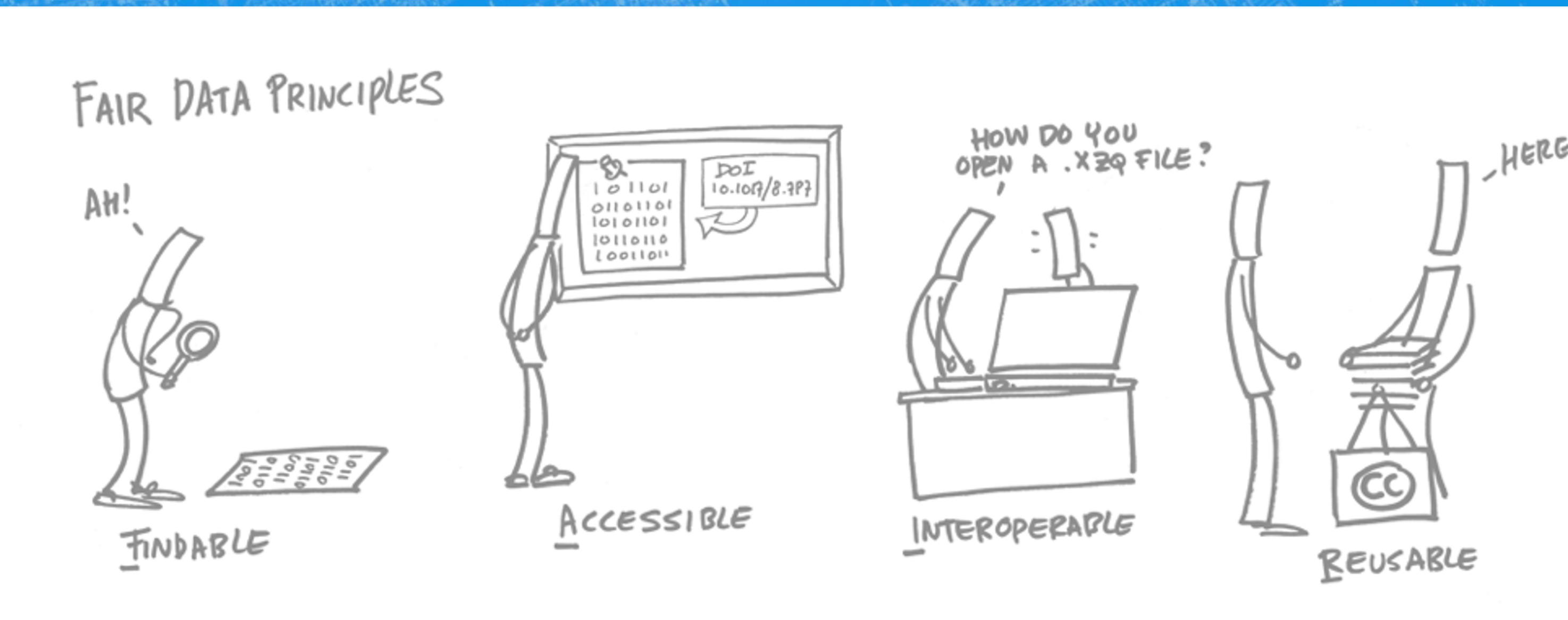
Modern Web APIs

- APIs are a popular, effective method for rapid software development.
- There is an increasing need for interoperability between Web APIs.



Source: <https://www.fiverr.com/ketion/create-custom-wordpress-or-woocommerce-rest-api-endpoints>

A Code Sprint is a collaborative and inclusive event to support the development open standards and implementations of the standards, as well as creating awareness about the standards.



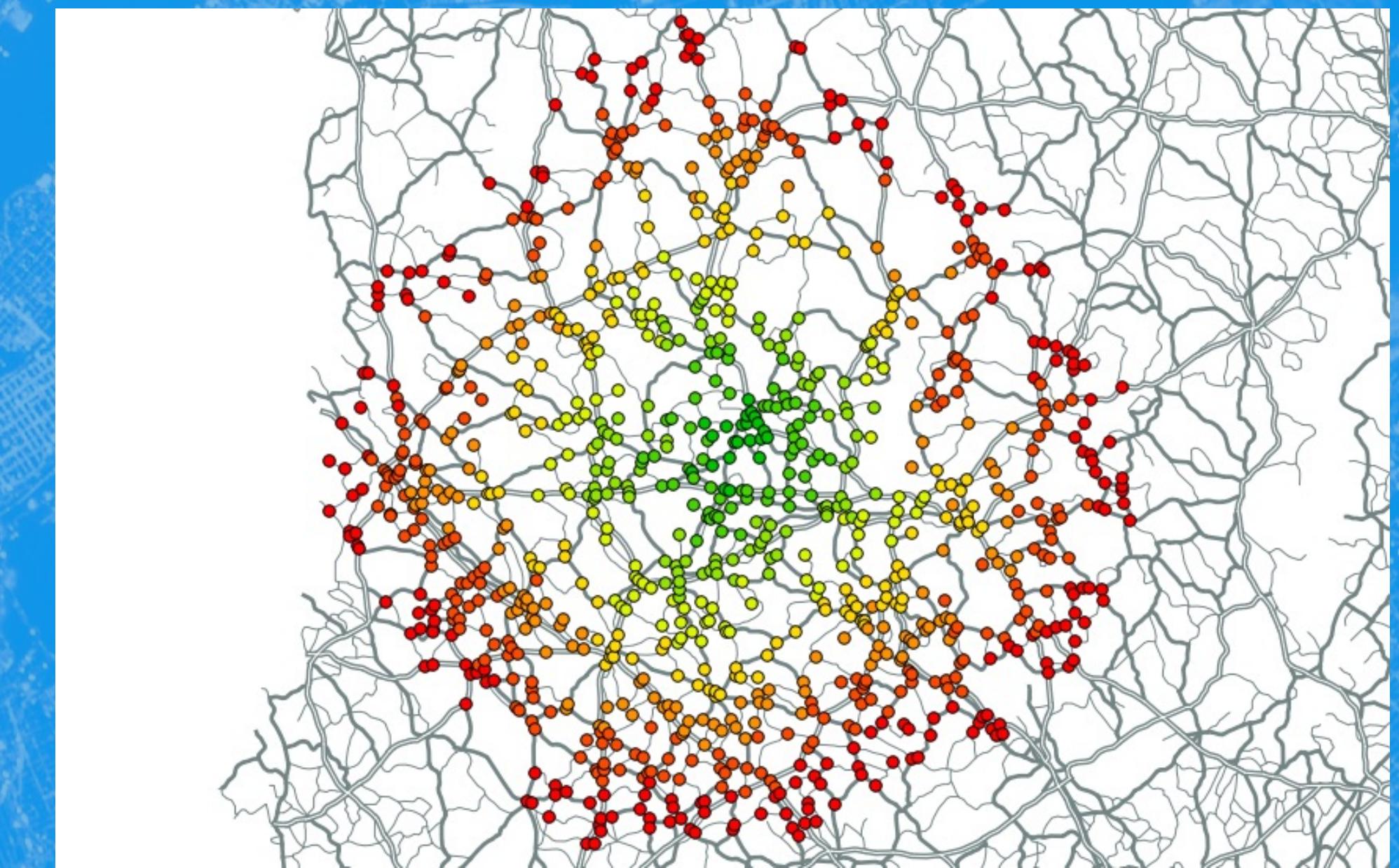
Standards focused on Vector Data:

OGC API – Features

OGC API – Moving Features

OGC API – Routes

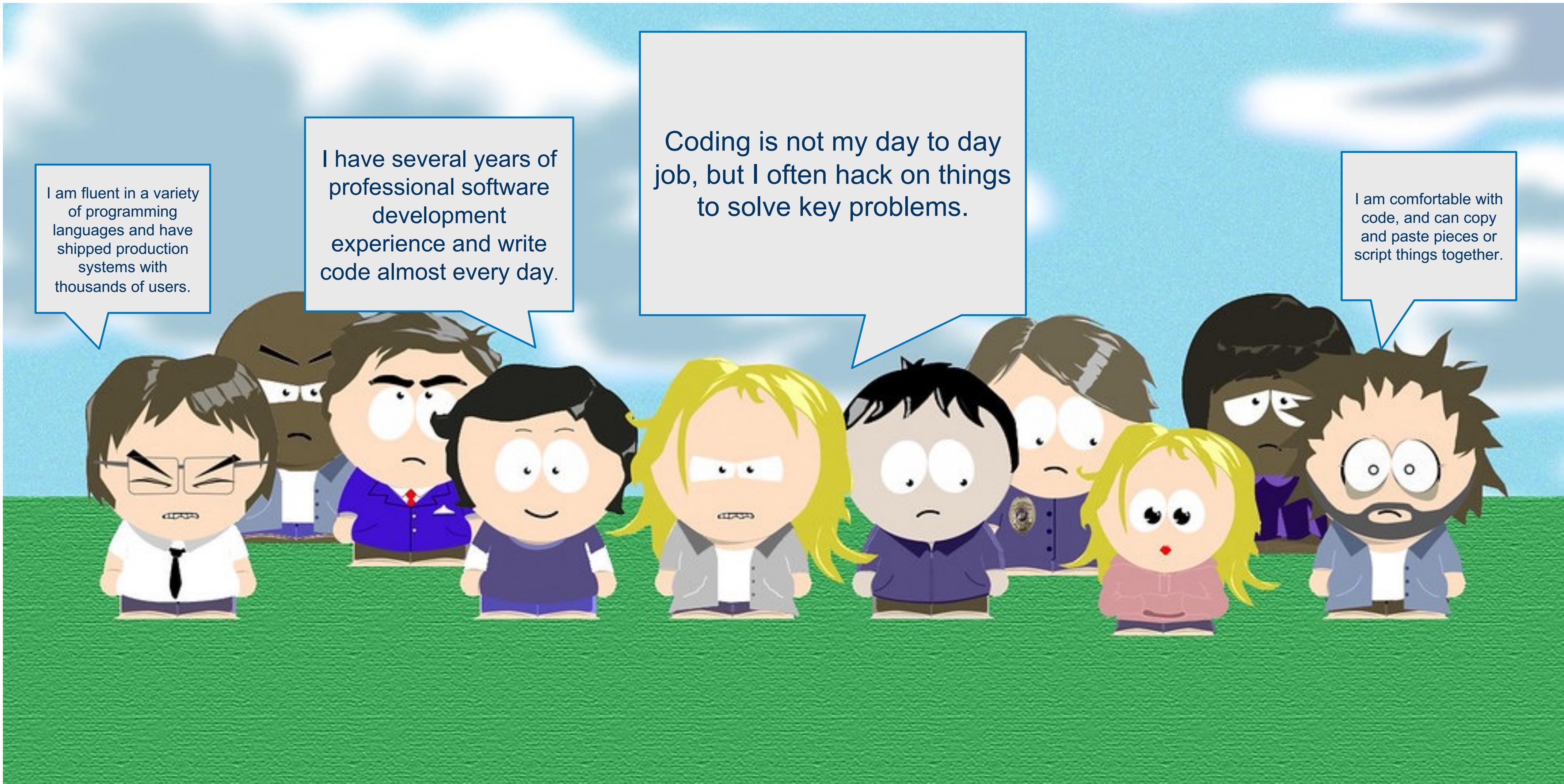
OGC API – 3d GeoVolumes



Catchment Areas with pgRouting driving_distance()

Source: https://anitagraser.com/2011/05/13/catchment-areas-with-pgrouting-driving_distance/

Who are the participants of the sprint?



Where do they come from?



Sprint Structure (2x speeds)

The sprint will take place on the OGC Events Discord Server.



Main Track
General channels



Mentor Stream
Mentoring
channels

Main Track

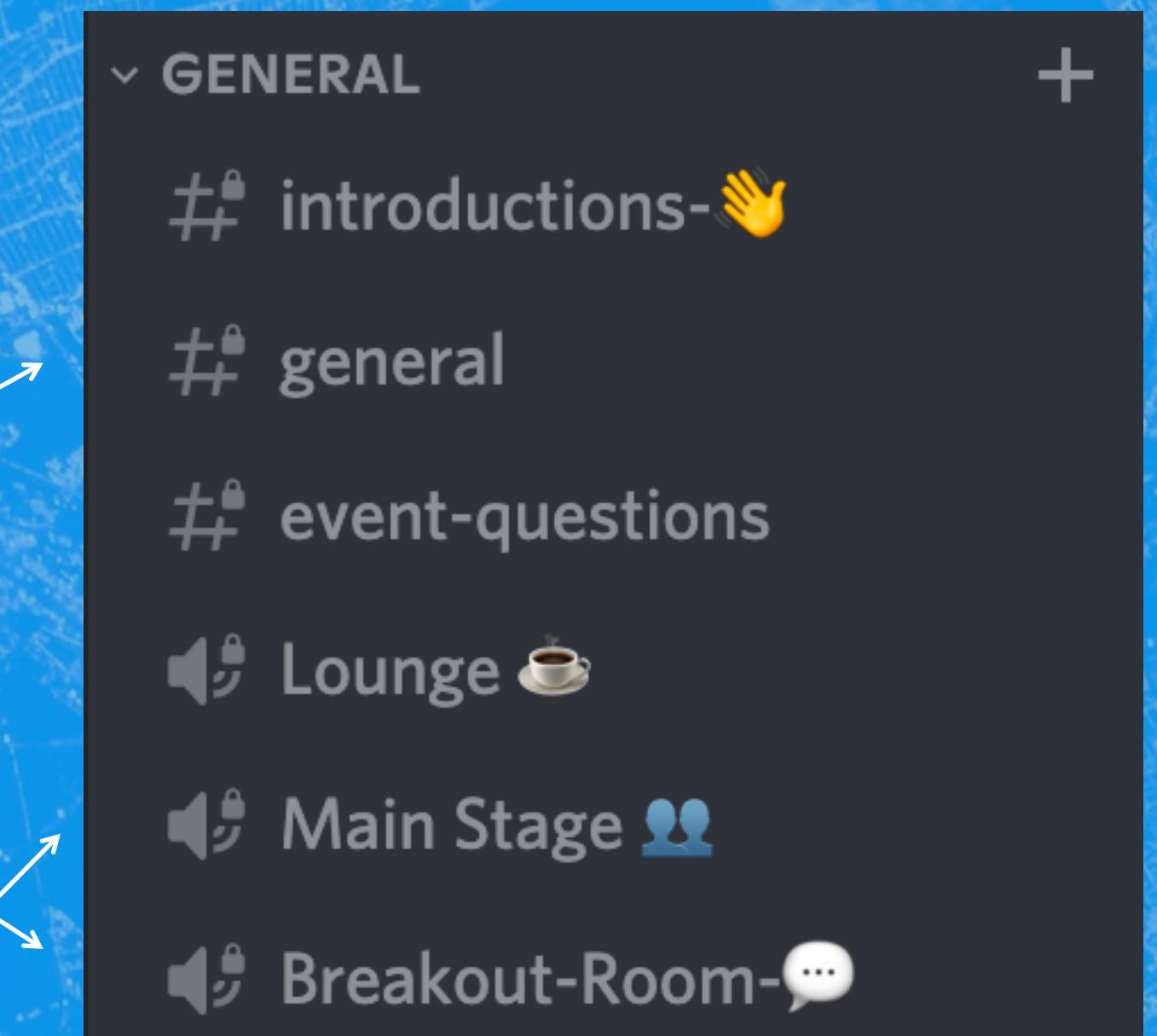


Developers will be working at their own pace:

- Developing standards implementations.
- Testing standards implementations.
- Providing feedback.

Discussion and knowledge sharing

Meet at given checkpoints



Mentor Stream



Developers will have the opportunity to give their first steps, using the standards or implementations of the standards.

You can find mentoring here

Tutorials will take place here

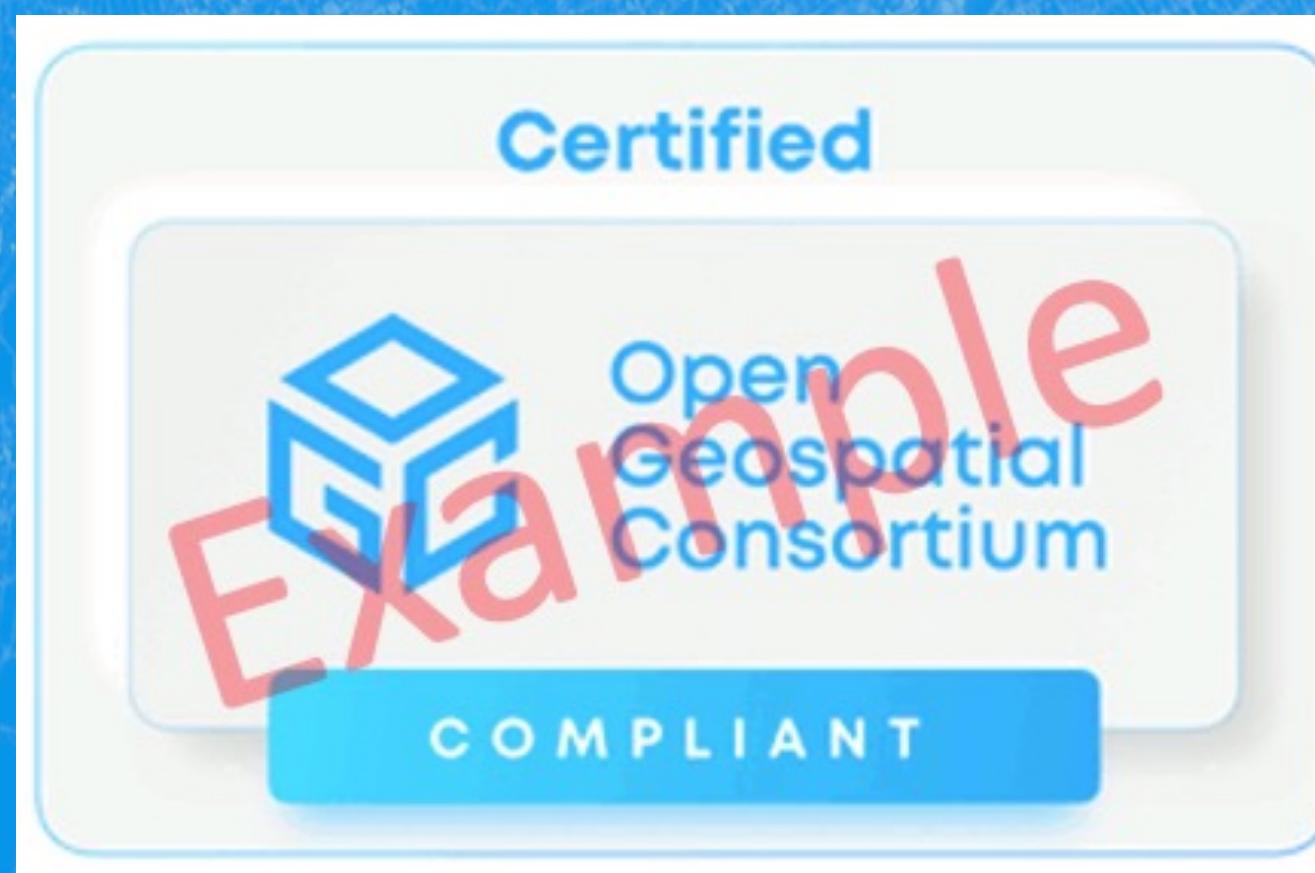


Tutorials



Tuesday, 1:30-2:30pm EDT/ 7:30-8:30pm CEST

Testing implementations of OGC API - Features for Compliance to the Standard



Wednesday, 09:30-10:15am EDT/ 3:30-4:15pm CEST

Share your Data with OGC API Features

The screenshot shows a web interface for "pygeoapi". At the top, there are links for "Home", "Collections", "Shops and Products", and "Items". On the far right, there are "Contact", "JSON", and "JSON-LD" links. Below the navigation bar, the title "Shops and Products" is displayed, followed by the subtext "Items in this collection.". A map of Barcelona is shown with numerous blue location pins. To the right of the map, a table lists three items from the collection:

ID	field_1	Shop name	Products	Shop GPS
616db0c...	3	Alcampo	Creme fraiche,...	41.4099...
616db0c...	8	Amiette Gluten Free Bakery	Bread rolls multigrain...	41.3779...
616db0c...	1	Abarrotes Doña Cuca	Ancho Chillies,...	41.4024...

Day #1 - Tuesday, the 12th of July, 2022

2022-07-12		Day #1: Kick-Off	
	05:00 - 05:10 EDT/ 11:00 - 11:10 CEST	Welcome Remarks - Joana Simoes	V:  #Main Stage
	05:10 - 05:35 EDT/ 11:10 - 11:35 CEST	Sprint Goals for OGC API - Features, Moving Features, Routes and GeoVolumes	V:  #Main Stage
	05:35 - 05:45 EDT/ 11:35 - 11:45 CEST	Q&A	V:  #Main Stage
	05:45 - 14:30 EDT/ 11:45 - 20:30 CEST	Practical work	V:  #Breakout Room
	14:30 - 15:30 EDT/ 20:30 - 21:30 CEST	Daily Brief Back	V:  #Main Stage

Day #2 - Wednesday the 13th of July, 2022

2022-07-13		Day #2	
	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 - 14:30 EDT/ 17:00 - 20:30 CEST	Practical work	V:  #Breakout Room
	14:30 - 15:30 EDT/ 20:30 - 21:30 CEST	Daily Brief Back	V:  #Main Stage

Day #3 - Thursday, the 14th of July, 2022

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
	13:30 - 14:30 EDT/ 19:30 - 20:30 CEST	Demos	V::喇叭 GotoMeet
	14:30 - 15:30 EDT/ 20:30 - 21:30 CEST	Wrap-up	V::喇叭 GotoMeet

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

👉 <https://github.com/opengeo spatial/developer-events/wiki/Vector-Data-Code-Sprint#schedule>

More Information

GitHub repo:

<https://github.com/opengeospatial/developer-events/tree/master/2022/Vector-Data-Code-Sprint>

Wiki page:

<https://github.com/opengeospatial/developer-events/wiki/Vector-Data-Code-Sprint>

Sprint Goals for OGC API – Features

An aerial photograph taken from an airplane window, showing a vast landscape below. The terrain is covered in patches of white, likely snow or ice, with darker areas representing vegetation or roads. In the distance, a range of mountains with snow-capped peaks is visible against a clear blue sky. The perspective is looking down and slightly forward, with the horizon line roughly in the middle of the frame.

Sprint Goals for OGC API – Moving Features

An aerial photograph taken from an airplane window, showing a vast landscape below. The terrain is covered in patches of white snow, likely from a winter season. In the distance, there are snow-capped mountain peaks. The sky above is a clear, pale blue. The overall scene conveys a sense of travel and perspective, looking down at the earth from high altitude.

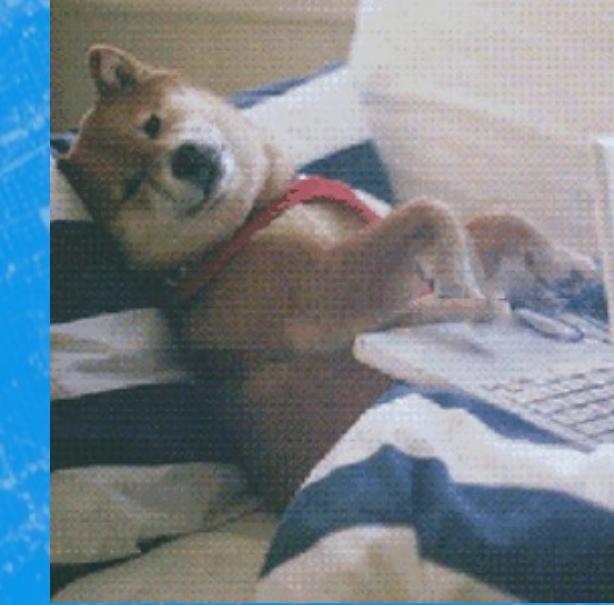
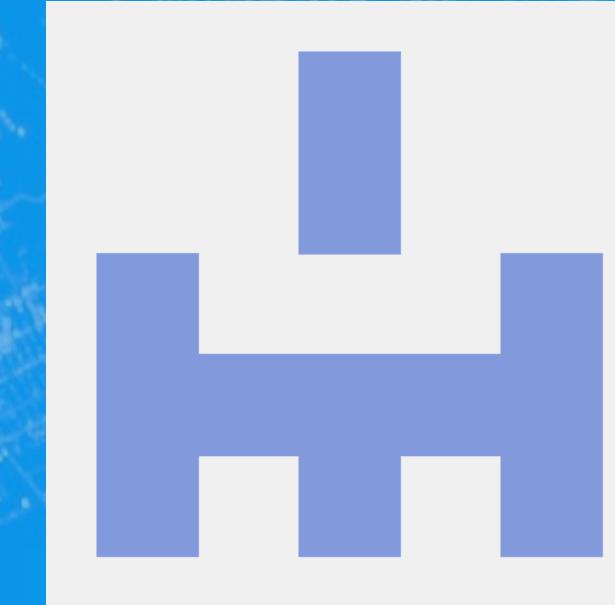
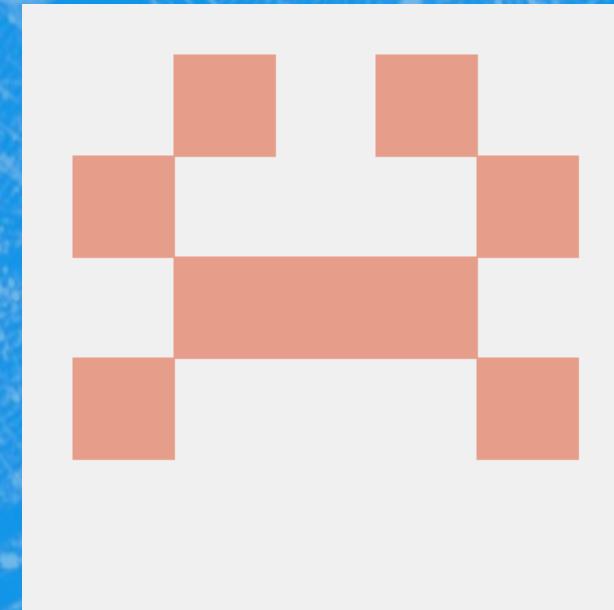
Sprint Goals for OGC API - Routes

An aerial photograph showing a vast landscape below. In the foreground, there are snow-covered fields and roads. In the middle ground, a range of mountains with snow-capped peaks is visible. The background shows a clear blue sky with scattered white clouds.

Sprint Goals for OGC API – 3D GeoVolumes

An aerial photograph showing a vast landscape below. In the foreground, there are snow-covered mountain peaks and ridges. Below the mountains, a network of roads and agricultural fields is visible, some of which are covered in snow. The sky above is a clear, pale blue with scattered white clouds.

Welcome



#Introductions

The screenshot shows a Slack interface for the '#introductions' channel. The channel has a lock icon and is set to private. It contains a welcome message from 'doublebyte' and a message from Joana Simoes. The sidebar shows various OGC-related channels and users.

OGC Events (dropdown)

#introductions (private channel)

Introduce yourself and share any links you'd like to. Please, keep the conversations in #general instead.

NEW UNREADS

- #judging
- #mod-log
- Staff War Room

GENERAL

- #introductions
- #general
- #event-questions
- Lounge
- Main Stage
- adesugbaa
- Breakout Room

SPONSOR 1

- #sponsor-1

ACTIVITIES

MENTORING

- #whois
- #find-a-mentor
- #mentor-room
- Mentor Room

doublebyte #8420

EVENT STAFF — 2

- doublebyte
- Scott Simmons OGC

ONLINE — 6

- adesugbaa
- bgrotan Playing Zwift
- Flavia R Ferreira
- francbartoli
- greenscar
- SAT

OFFLINE — 28

- ajay.gondane
- AntoC
- Cameron Wilson
- Carlos Mota
- carlospalma
- cportele
- Daniel Lugo

October 20, 2021

Mats Åhlin - CM ISO/TC 211 10/20/2021
I seem to be able to write here.

November 9, 2021

doublebyte Today at 6:01 PM
Indeed you can
Feel free to introduce yourself in this channel
My name is Joana Simoes, Data Engineer/Data Scientist and Developer Relations @ OGC

Message #introductions



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

