

June 2021 - OCG Intro

Short Insight to the OGC

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The world's leading and comprehensive
community of experts making location information:



Findable



Accessible



Interoperable



Reusable



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The OGC logo consists of the letters "OGC" in a large, white, sans-serif font, positioned on the left side of the slide.

Global
Communities

Location
Expertise

Thought
Leadership

Trusted
Forum

Open
Standards

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 projects, and partnership building

Who are our members?



The world's leading and comprehensive community of experts making location data more findable, accessible, interoperable and reusable

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Commercial

- Business Development
- Competitive Technical Advantage
- Global; Brand Exposure
- Funding for Innovation

Government

- Innovation and Market Support
- Trusted Advice
- International Partnerships
- Operational Policy, Support, and Certification

Research & Academia

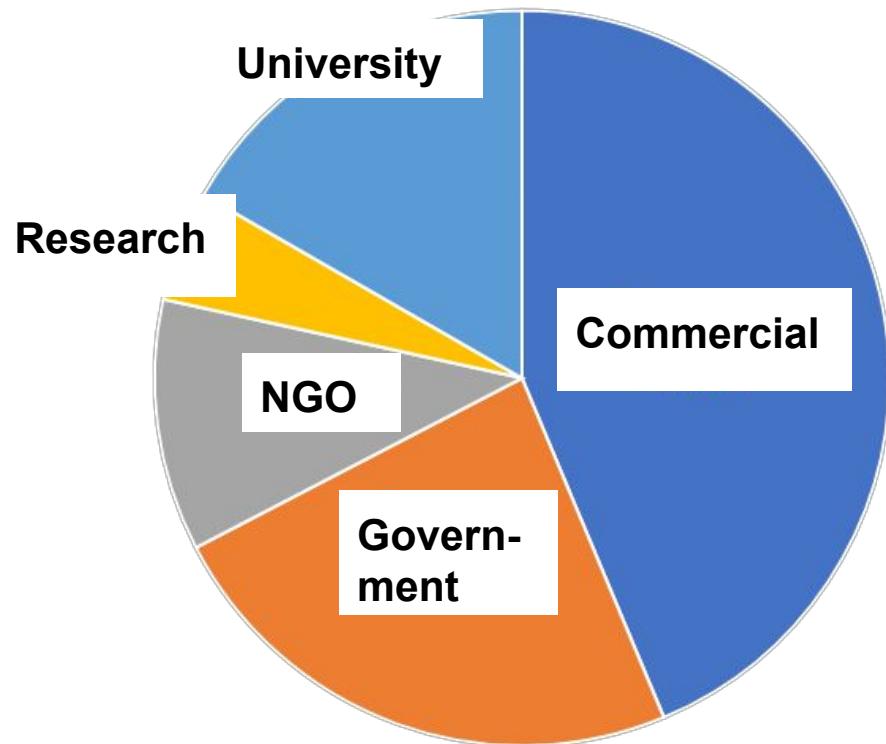
- Applied Research Partners
- Funding for Innovation
- International Collaboration
- Citations

OGC - Members by Region (June 2021)

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- Asia-Pacific (105)
- Europe (195)
- North America (199)
- Rest of the World (41)



Exciting Times!



New Technologies



New Technologies

Abundance of Devices



IOT
(Internet Of Things)

New Technologies

Abundance of Devices

Plethora of Data

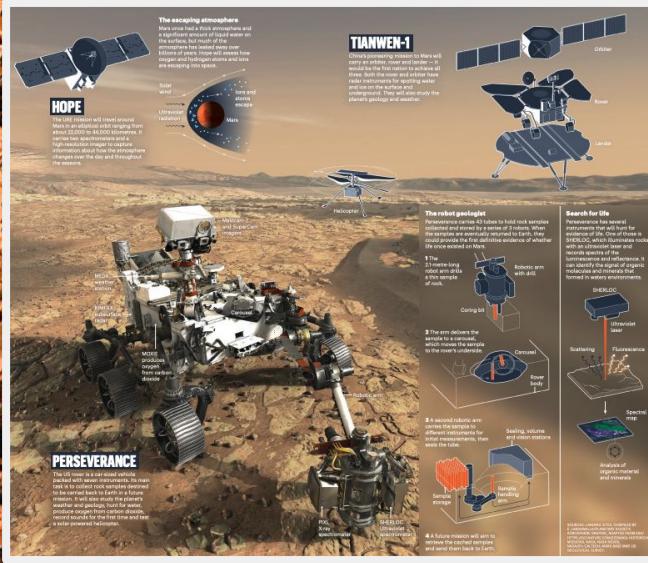


Image Source:
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Image Source:
<https://www.jsg.utexas.edu/goudge/research/>

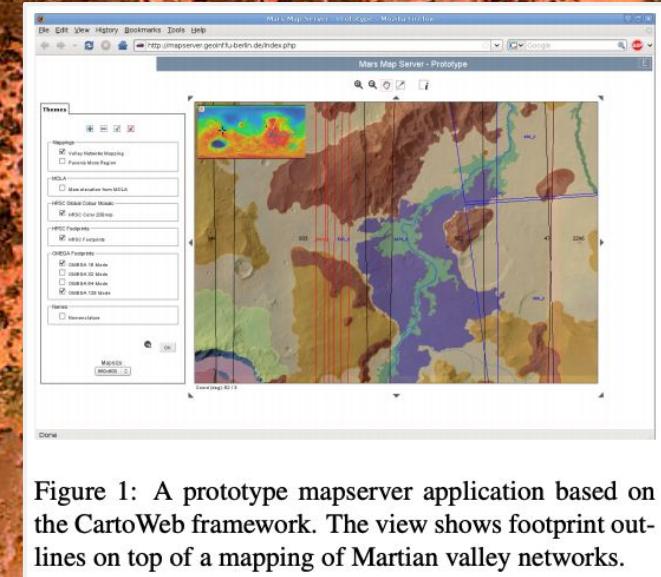
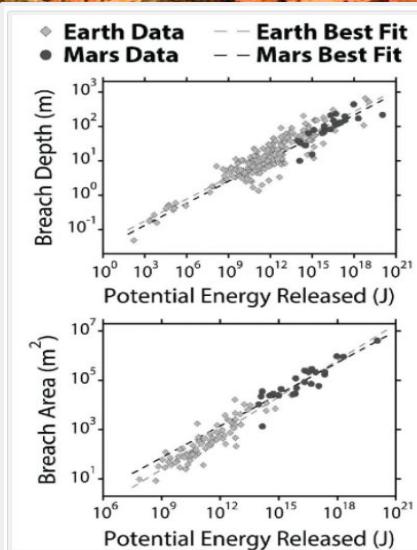
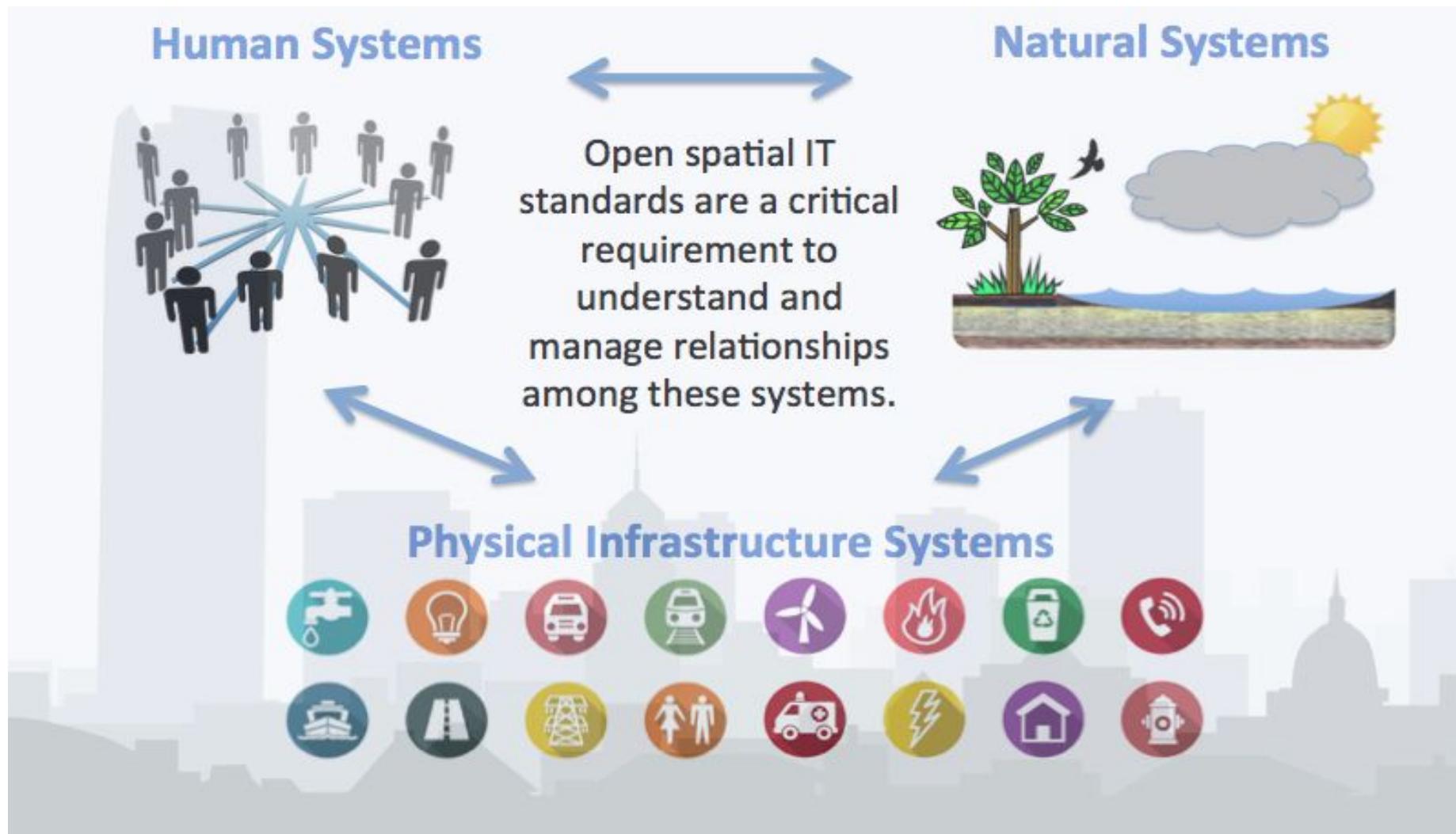


Figure 1: A prototype mapserver application based on the CartoWeb framework. The view shows footprint outlines on top of a mapping of Martian valley networks.

Image Source:
https://www.dlr.de/pf/Portaldata/6/Resources/dokumente/abt_pd/IISPRS/berlin_2009_korrigiert/Walter_ISPRS_IV7_2009.pdf

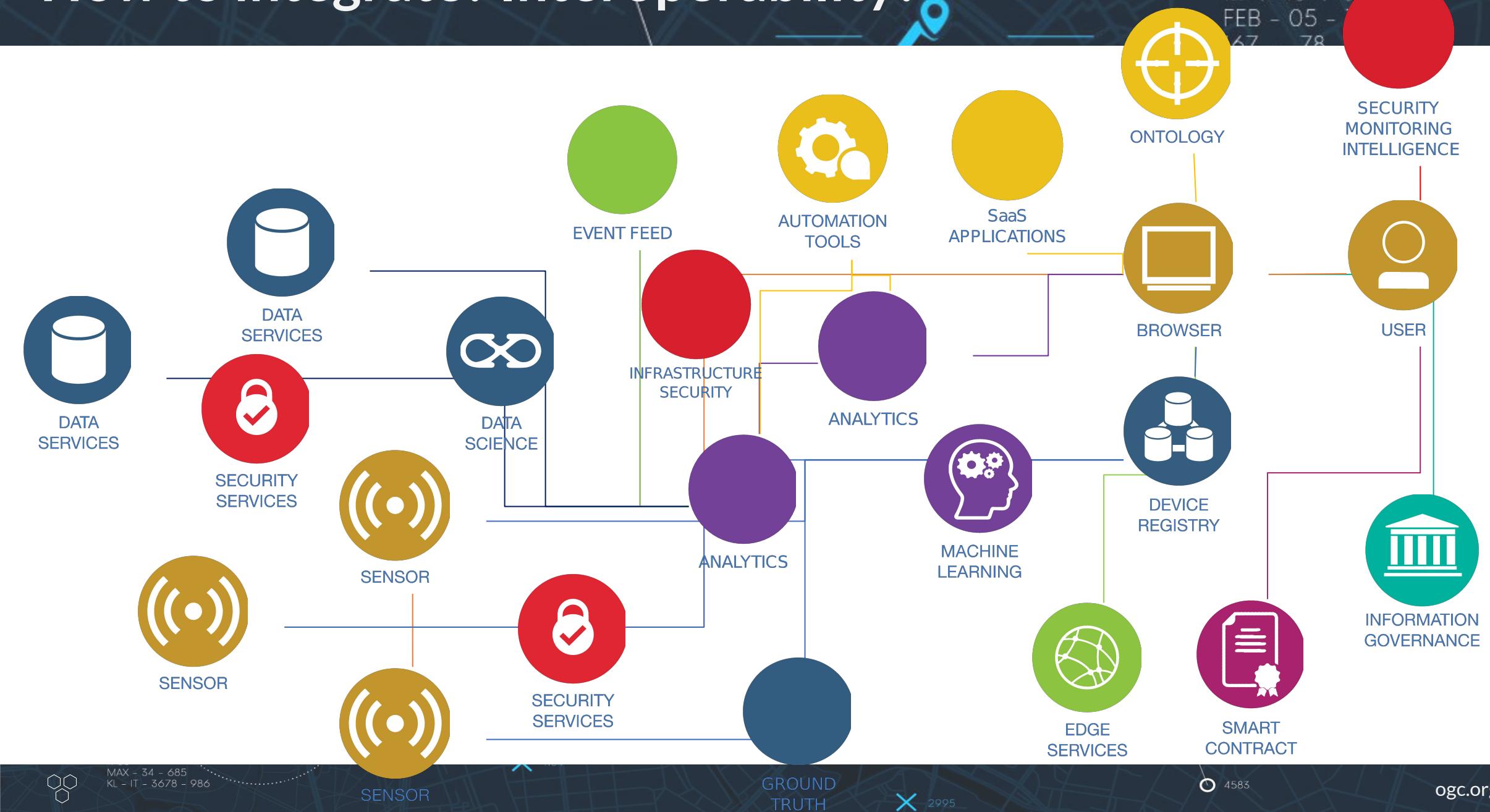
Image Source:
<https://www.mps.mpg.de/en/forschung/planeten/>



How to integrate? Interoperability!

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SENSOR

GROUND
TRUTH

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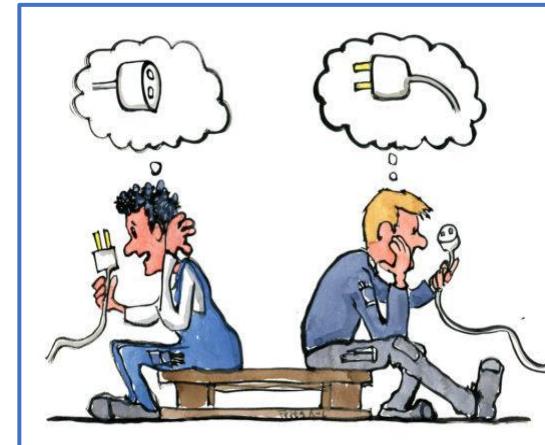
What? ... and why Interoperability?

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Interoperability is the ability of diverse data sources, systems and organizations to work together (inter-operate). This leads to ...

- easy data/information sharing
- promotion data/information reuse
- reduction of duplication (of efforts)
- flexibility to add new capabilities
- vendor neutrality - no “lock in” to proprietary architecture
- secure your investments



Source:
<https://thenewdialtone.com/google-pushing-webrtc-browser-interoperability-2017/>

It helps to saves time, reduces cost, increases market choice, protects assets and lives.

Engagement in the OGC - you decide!

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**ENGAGE WITH A
COMMUNITY OF
DIVERSE EXPERTS**



**LEAD THROUGH
FUNDED INNOVATION
INITIATIVES**



**IMPACT INTERNATIONAL
GEOSPATIAL
STANDARDS**



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- Standards Working Groups (SWG)
 - work on candidate standards prior to approval, make revisions to existing standards through a predefined process.
- Domain Working Groups (DWG)
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 - also work on technology- or domain-specific requirements for interoperability.



What is an OGC Standard

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A document, established by consensus and approved by the OGC Membership,
that provides rules and guidelines, aimed at the optimum degree of
interoperability in a given context.



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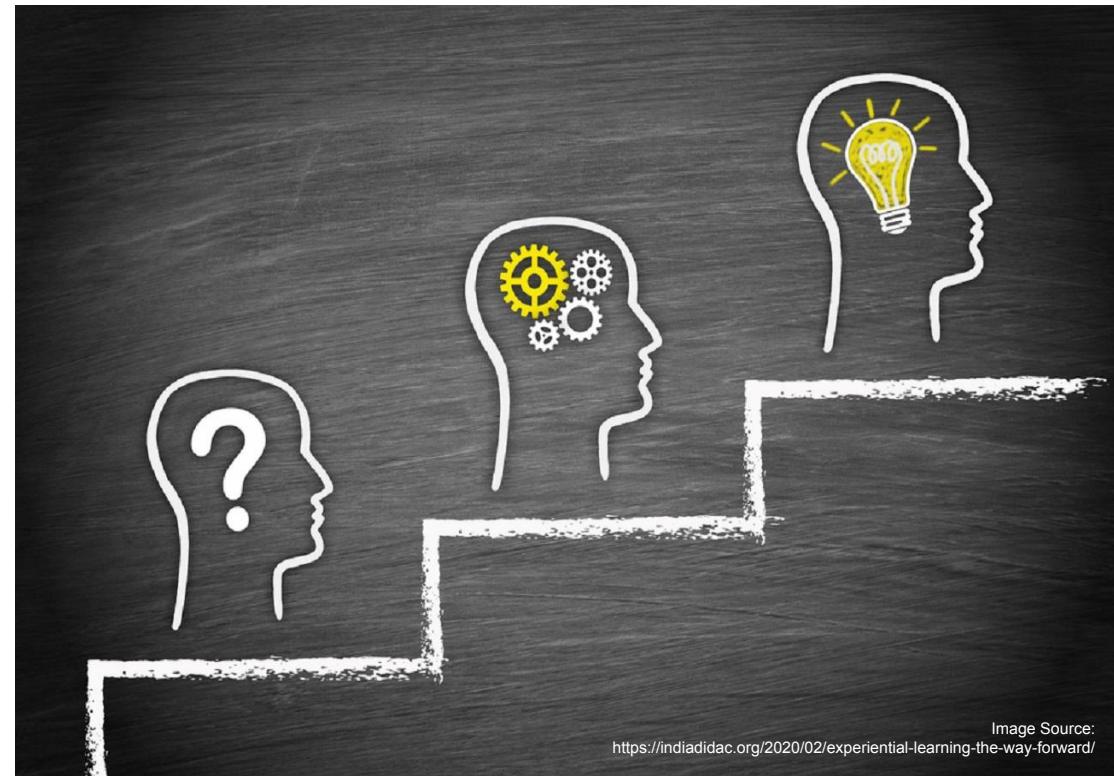
Standards Development - Five Steps

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Five Steps

1. Identify Requirements
2. Form a Standards Working Group (SWG)
3. Create the Standard
4. Submit Standards for internal review and public comment
5. OGC members vote to approve the Standard



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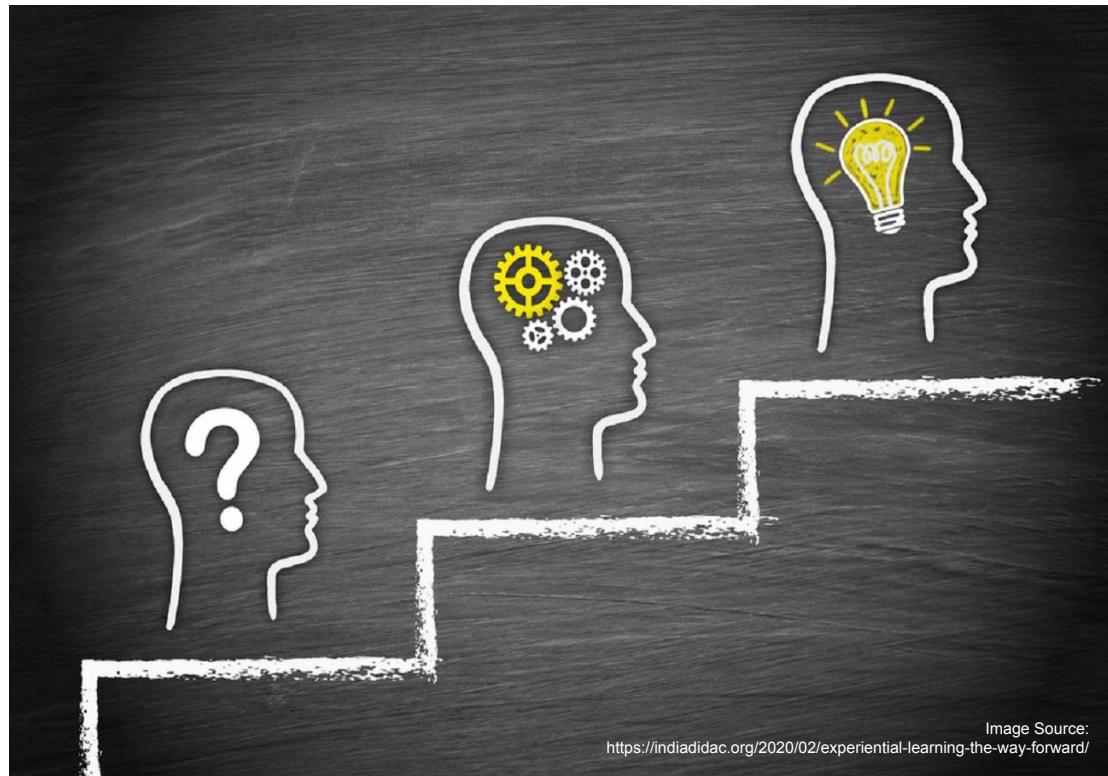
Standards Development - Five Steps

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1. Identify Requirements

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Requirements come from

- Broader Community
- Membership & Alliance Partners
- Market & Technology Trends
- Output from previous OGC Activities (e.g OGC's Innovation Program)



Image Source:
https://www.projektmagazin.de/artikel/requirements-engineering-fuer-projektleiter-teil-1_1105062

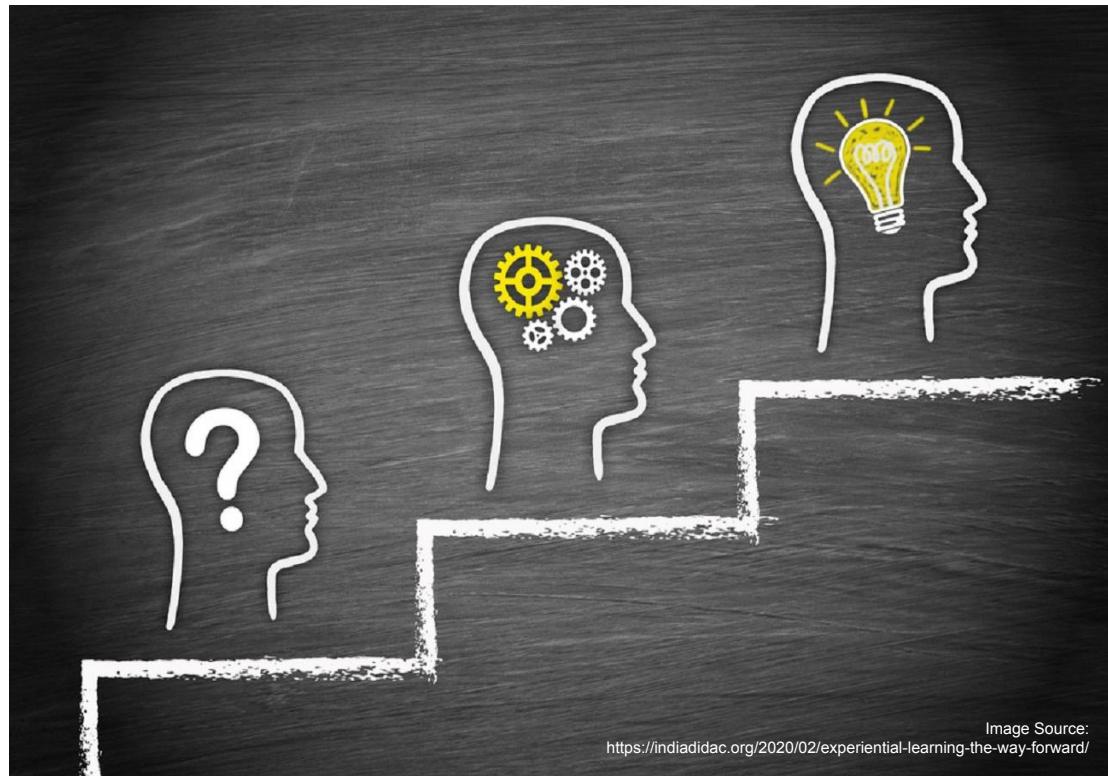
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3. Create a Standard

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- Develop use cases
- Identify dependencies
- Work within OGC policy
- Comply with OGC Abstract Specification and OGC Modular Specification
- Invite experts
- Perform iterative internal and public reviews
- Use collaboration tools!



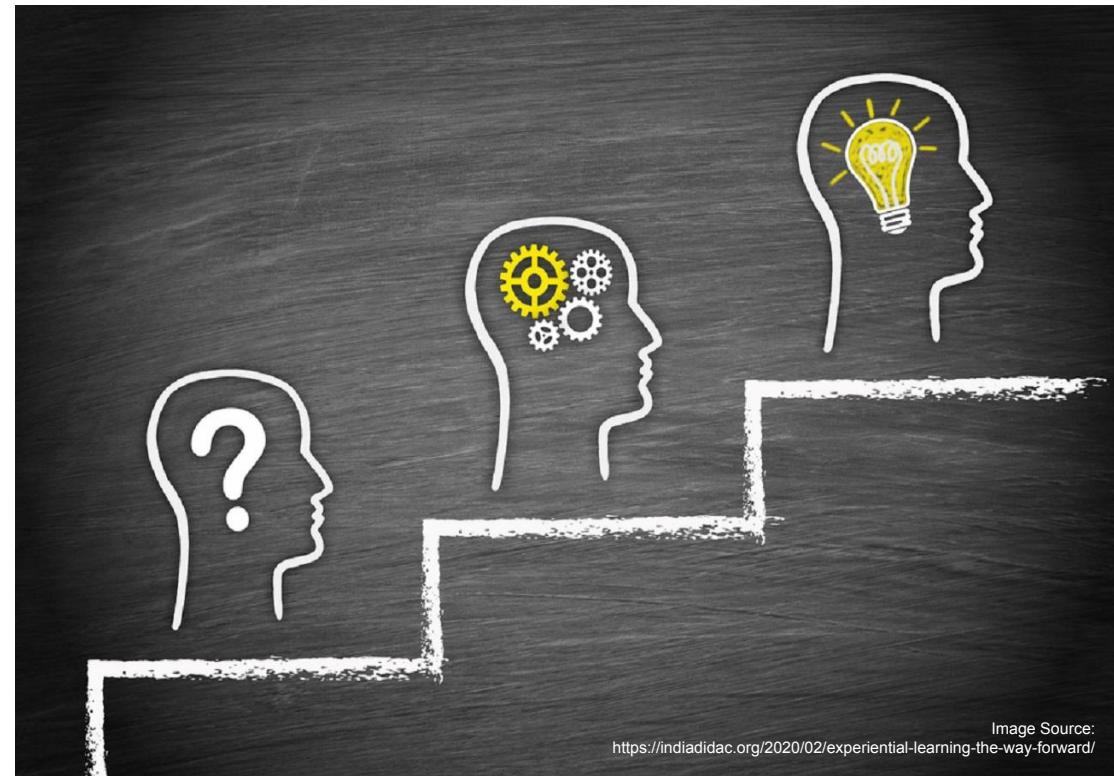
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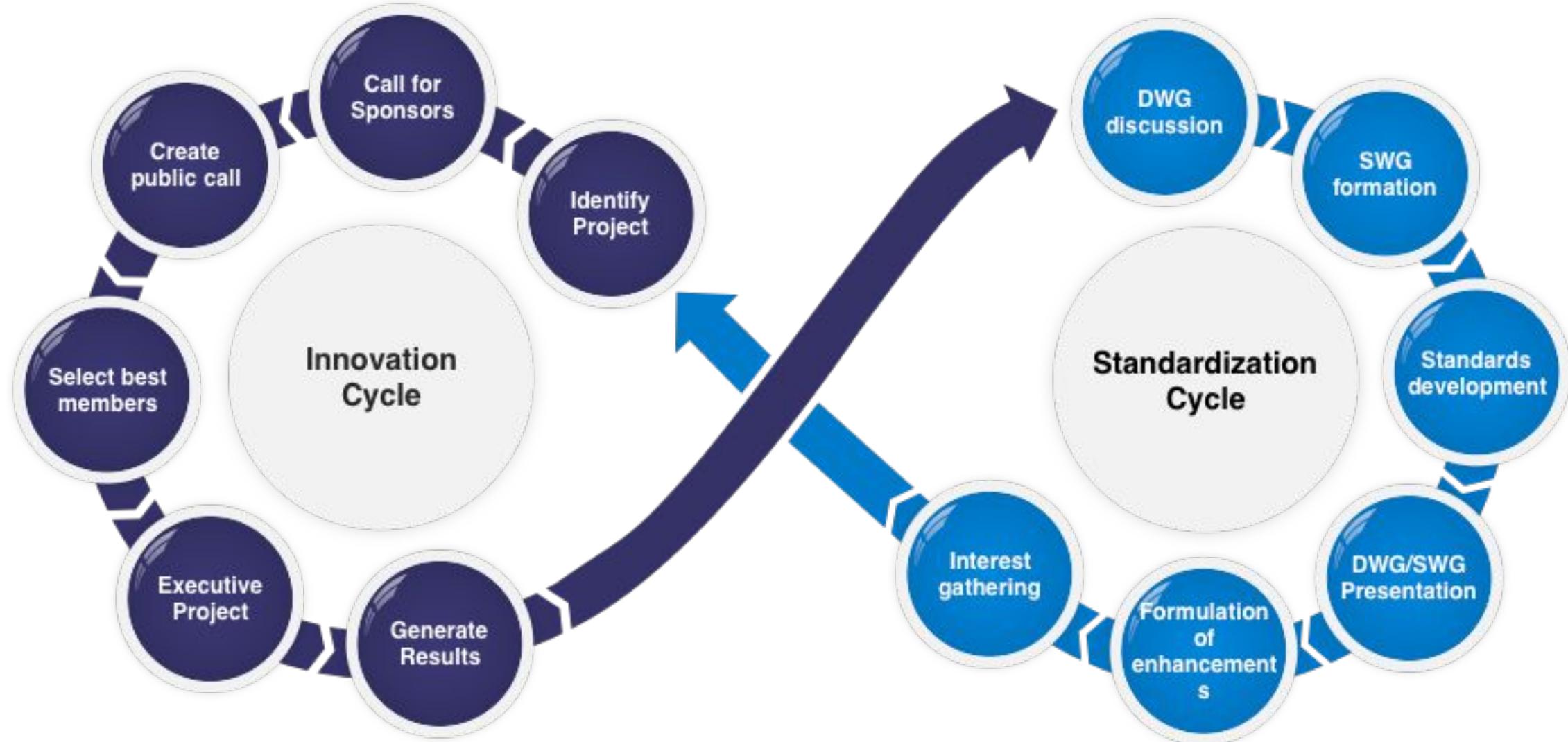
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Innovation and Standards setting

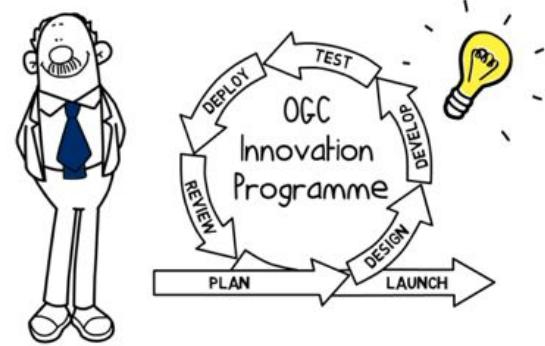
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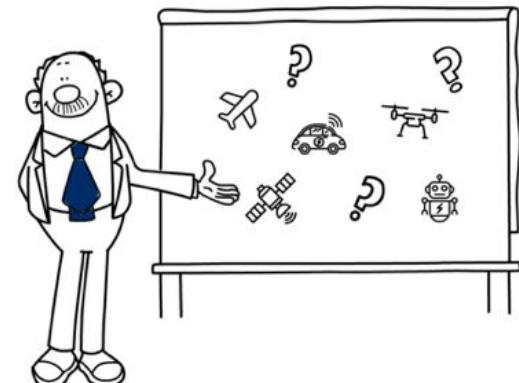


In a nutshell: Why do others participate?

- Learn what others are doing
- Shared experiences
- Shared sponsorship
- Tasking several organizations instead of one ensures sustainable results
- No "pre-cooked" solutions
- World class experts working together and sharing experiences



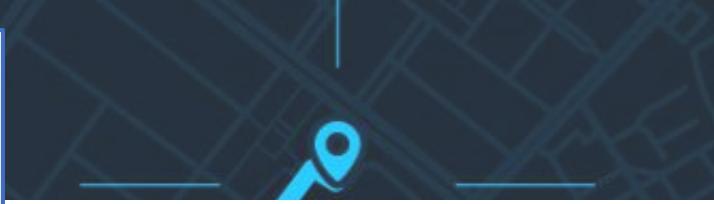
Watch [IP Sponsor Video](#) (Youtube).



Watch [IP Participants Video](#) (Youtube).



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Disaster Pilot 2021

Interoperable Simulation and Gaming Sprint

3D data & API standards

ogc.org/isg-sprint



ISG Sprint year 2

Federated MSDI Pilot

OGC - IHO
Federated Marine SDI
Demonstration Pilot
Connecting Land and Sea Across Nations



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- Testbed-18
 - Machine Learning
 - Big Data Analytics
 - Cloud optimized data
 - Systems at scale
- Blockchain spatial objects
- Built Environment Interoperability
- UAS Command and Control
- HD maps and autonomous vehicles
- Digital Twins (urban, ocean, global)

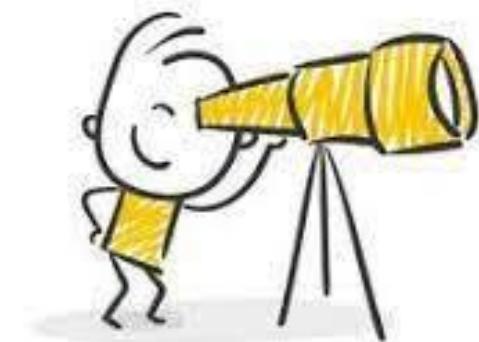


Image Source:
[http://www.zeppelinschule-speyer.de/w
p-content/uploads/2020/06/index.jpg](http://www.zeppelinschule-speyer.de/wp-content/uploads/2020/06/index.jpg)



Engagement in the OGC - you decide!

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Domain Working Groups (DWG) Examples

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- [Artificial Intelligence in Geoinformatics](#)
- [Earth Observation Exploitation Platform](#)
- [Earth System Science](#)
- [Geoscience](#)
- [Emergency and Disaster Management](#)
- [Energy and Utilities](#)
- [Meteorology & Oceanography](#)
- [Marine](#)



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Networking and building partnerships

- get access to a variety of communities and build networks and partnerships
- domain specific, from national to global level

Innovation and R&D

- influence and stimulate industry growth
- benefits from latest developments in software development
- You want to be a sponsor?
Talk to us.
- You want to be participants?
Watch out for Call for Participants

Community Leadership and Visibility

- strategic positioning, take a leading role in standards development
- requirements setting
- influence Sprints, Tech and Discussion Papers, Hackathons according to your needs



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When how and where do we work?

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- on mailing-lists
- working group calls (if necessary)
- collaboratively on Github
- Quarterly OGC [Member Meetings](#)
 - March, June, September, December
 - read blog on December Member Meeting
[“10 Ways the 116th OGC Member Meeting Advanced Location Information and the Geospatial Community”](#)

Agenda March 2021 OGC Member Meeting

Type	Session
Public	Health Summit I ↗
SWG	GeoPose SWG
DWG	3DIM DWG
Open	Developer Track I ↗
Break	Break
Public	Health Summit
SWG	Points of Interest (POI) ad hoc or SWG
DWG	Emergency and Disaster Management
Open	Developer Track
Break	Break
Public	Health Summit
DWG	CRS Domain Working Group
SWG	CityGML SWG
Open	Developer Track
Break	Break
SWG	CIS
DWG	Met Ocean DWG
Open	Developer Track

Wed, Mar 24th 4:00pm (Room B)
CRS Domain Working Group

Project: Coordinate Reference System DWG ([read more...](#))
Reserved By: Keith Ryden
Facilitator: Greg Buehler

Session Agenda Items

- Speaker:**
Jean-Christophe Malapert (Expert Dev. Segments Sols Scientifiques DNO/SC/3S)
Presentation:
Planetary references in Coordinate Reference Systems (20 min)
- Speaker:**
Roger Lott (OGP)
Presentation:
OGC Topic 2 - minor updates to UML for metadata to align with ISO (15 min)
- Speaker:**
Chris Crook (Land Information New Zealand)
Presentation:
Update on working group progress towards a logical Grid Deformation Model (15 min)

Red arrow pointing to the CRS Domain Working Group session in the agenda table.



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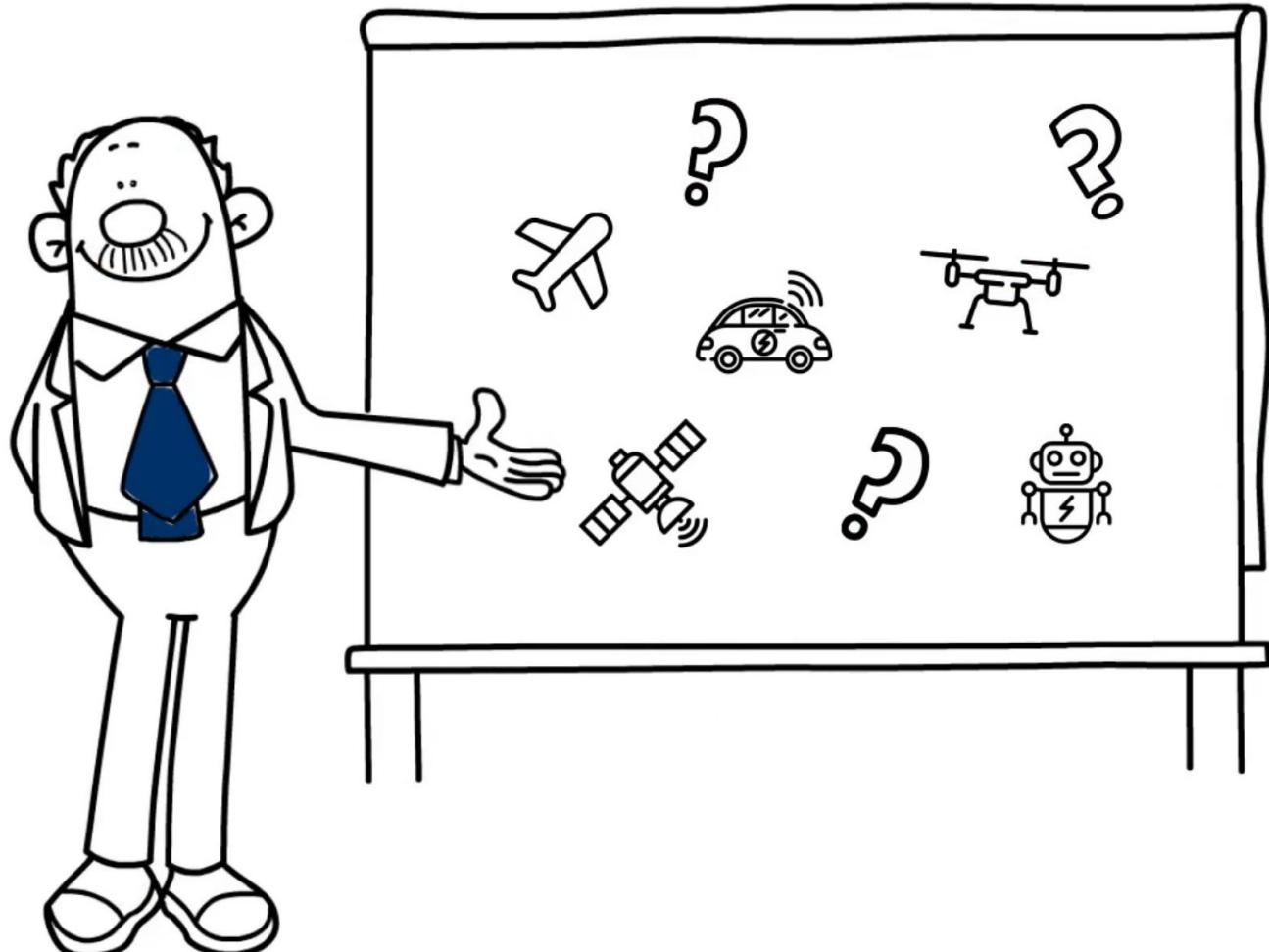
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Why participate in OGC?

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- Network & build partnerships
- Show leadership & be visible
- Stay on top of trends
- Influence capabilities, tools and standards
- Innovate in R&D activities
- Reduce technology risk



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Athina Trakas
atrakas@ogc.org

Director Member Development & Success
Europe, Central-Asia & Africa



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Contact info@ogc.org to schedule a meeting for an in-depth discussion with OGC staff and join our community today!

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



Connect With Passion

Be a Leader



Share the OGC vision
beyond traditional
Geospatial

Create an Impact



Make waves with the
power of our knowledge
and our members

Know the Way Forward



Execute our mission
through strong
leadership

Inspire our Community



Empower OGC's
members and grow the
location community