1

230+ members from industry

120+ government agencies

185+ universities & research orgs

70+ standards

100+ working groups

2

Community: 550+ Members

Problem solvers & innovators

Creating value with geospatial

Open Standards

Best Practices

Proof of Concepts

Deliverables to the world

https://www.ogc.org/standards

3

- New sensors
- Small satellites
- LIDAR
- IoT
- Drones
- …

More sources
More data

Visualization and Interaction w/ data

- 3D
- AR, VR, MR
- Gaming & simulation
- Maps on the web
- Natural language
- …

- GNSS
- 5G
- Global grids
- Indoor
- Underground
- …

Location/Position Accuracy

Data Science and Analytics

- Artificial Intelligence
- Machine Learning
- Big data analytics
- Linked data
- Analysis Ready Data
- …

- Cloud
- Edge
- Streaming
- Internet
- APIs
- …

Computing Advancements

Modeling and Simulation

- Weather
- Disaster risk
- Pandemics
- Human activity
- Hydro/soil/air/etc
- …

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https://ogcapi.ogc.org/

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Maps

Maps

Features

WMTS

WFS

WMS

WCS

Imagery

Coverages

Multiple Maps with common semantics - Interoperability (Source: Joan Maso)

Discover via CSW

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Maps

Maps

Features

OGC API Tiles

OGC API Features

OGC API Maps

OGC API Coverages

Imagery

Coverages

Multiple Maps with common semantics - Interoperability (Source: Joan Maso)

Discover via OGC API - Records

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- "Building blocks" that can be used to assemble novel APIs for web access to geospatial content

- Ultimately will replace and enhance the existing OGC Web Service standards

- Defined with OpenAPI and published in discrete, easily implementable parts

- Ensure that geospatial data are "web "
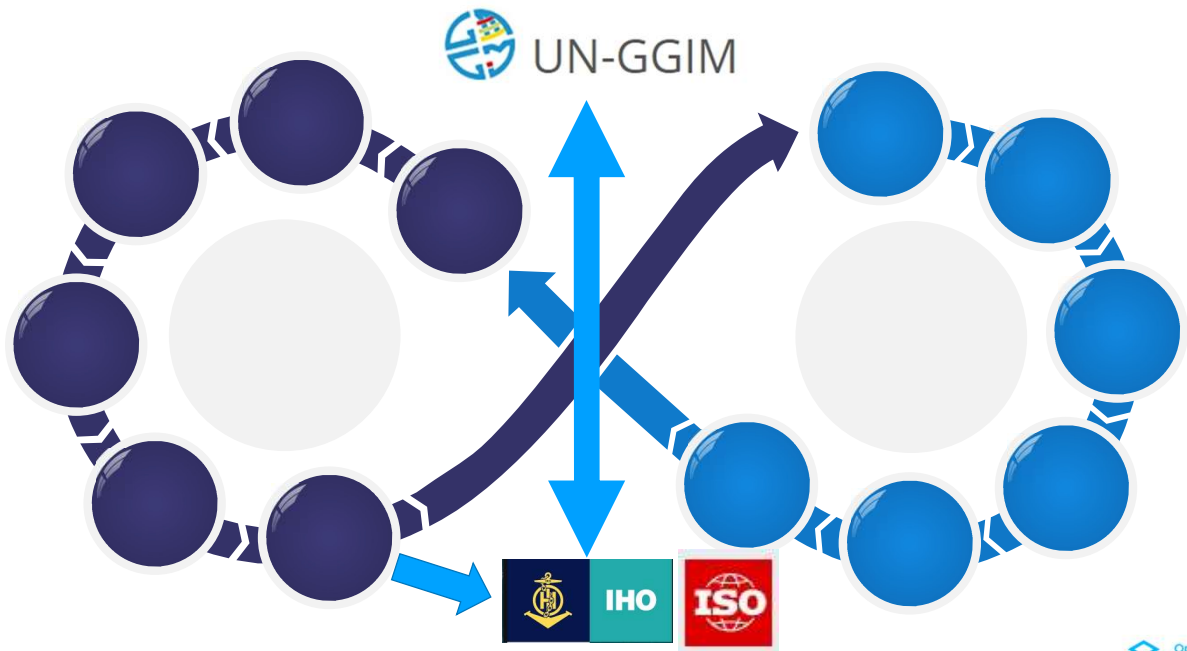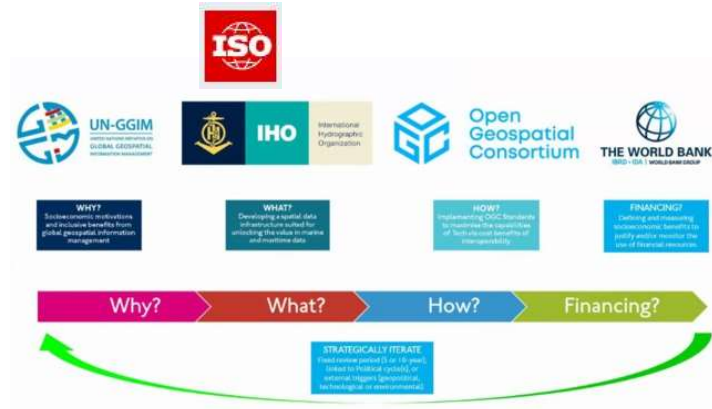
- Easy to implement for any developer -

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- OGC APIs used in Phase I-III of the FMSDI
- OGC Features API
- OGC Sensorthings API
- OGC Discreet Global Grids API (including 3D)
- OGC Envrionental Data Retreivel API
- Classic W*S standards (to show backwards compatibility)
- OGC GML

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

More on Thursday !

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- Collective Problem Solving – Innovation
- Multiplier effect + reduce redundant work
- Maximize Investments
- Long History on collaboration – which is accelerating

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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

120+ Innovation Initiatives
380+ Technical reports
Quarterly Tech Trends monitoring

65+ Adopted Standards
300+ products with 1000+ certified implementations
1,700,000+ Operational Data Sets
Using OGC Standards

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