

1



230+ members from industry

120+ government agencies

185+ universities & research orgs

70+ standards

100+ working groups

2



3



4

5

OGC APIs Building Blocks for Location
<https://ogcapi.ogc.org/>

- Features**: Approved Standard. OGC API - Features - Part 1: Core and Part 2: Coordinate Reference Systems by Reference are both publicly available.
- Common**: OGC API - Common provides these elements shared by most or all of the OGC API standards to ensure consistency across the family. The candidate standard will soon be released for public review.
- Maps**: OGC API - Maps offers a modern approach to the OGC Web Map Service (WMS) standard for provision map and raster content.
- Tiles**: OGC API - Tiles provides extended functionality to other OGC API standards to deliver tiled data, such as Map Tiles.
- Styles**: The OGC API - Styles delivers a Web API that enables map servers, clients as well as visual style editors, to manage and fetch styles...
- EDR**: Environmental Data Retrieval (EDR) API provides a family of lightweight interfaces to access Environmental Data resources. Each resource is addressed by an EDR API maps to a defined query pattern.
- Records**: OGC API - Records systems OGCs. Catalog Services for the Web by building on the simple access to content in OGC API - Features.
- Processes**: OGC API - Processes allows for processing tools to be called and combined from many sources and applied to data in other OGC API resources through a simple API.
- Coverages**: OGC API - Coverages allows discovery, visualization and query of complex raster stacks and data cubes.
- DGGS**: Enables applications to organize and access data arranged according to a Discrete Global Grid System (DGGS).
- Routes**: Enables applications to request routes in a manner independent of the underlying routing data set, routing engine or algorithm.

6

Discover via CSW

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

7

Discover via OGC API - Records

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

8

-
- “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 -

9

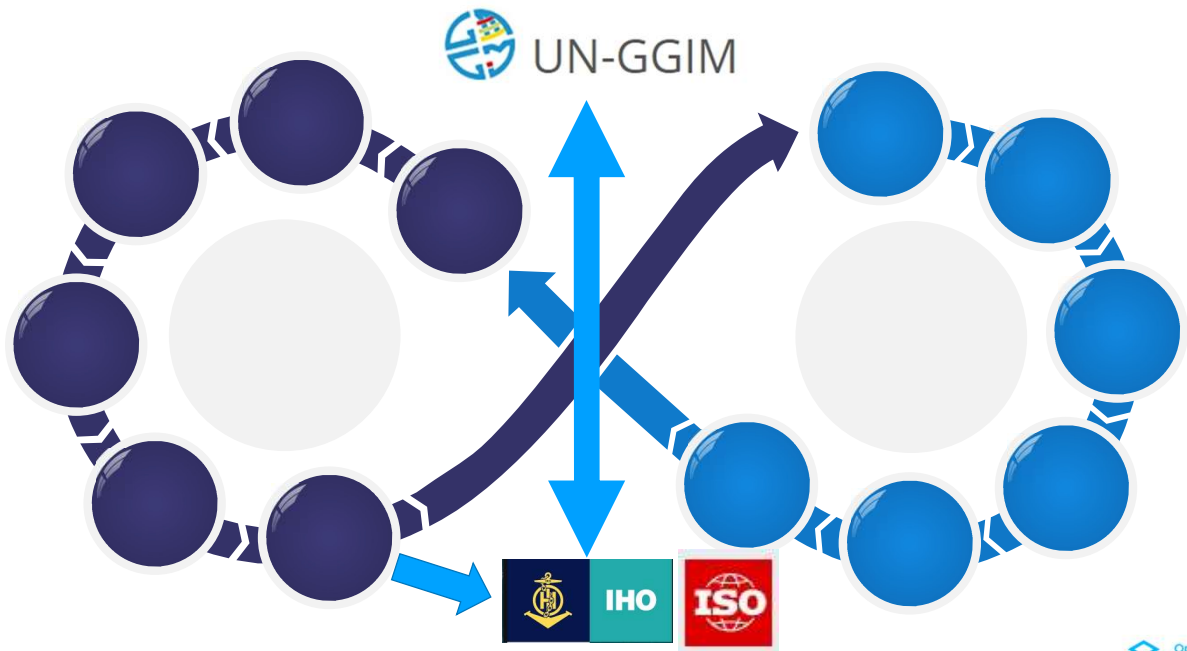
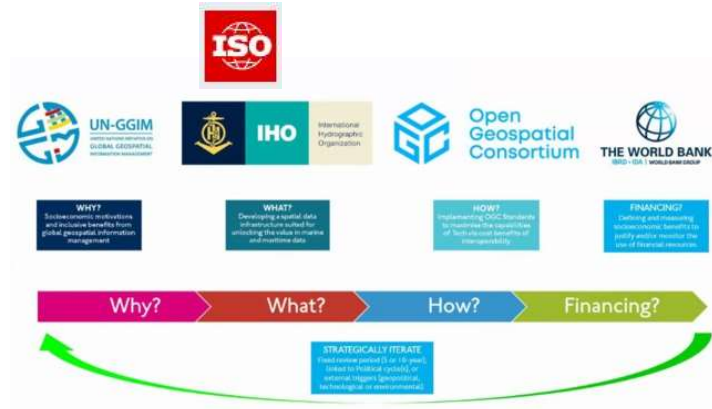
- OGC APIs used in Phase I-III of the FMSDI
- OGC Features API
- OGC Sensorthings API
- OGC Discreet Global Grids API (including 3D)
- OGC Environmental Data Retrieval API
- Classic W*S standards (to show backwards compatibility)
- OGC GML



*More on
Thursday !*

10

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





13

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

Copyright © 2021 Open Geospatial Consortium

14