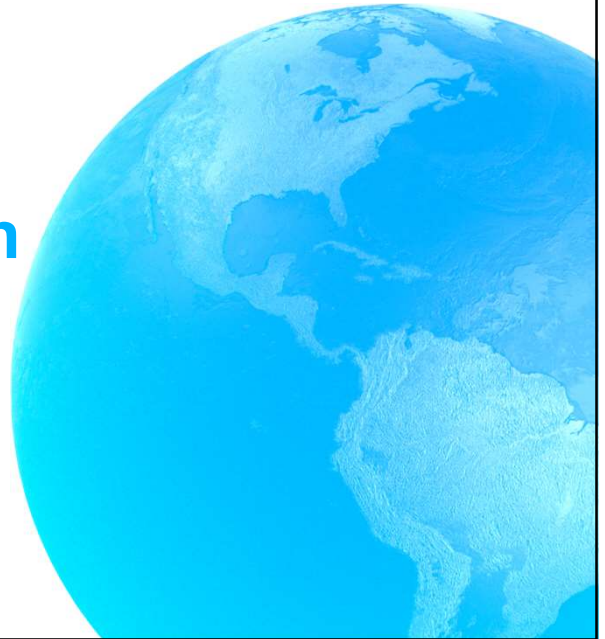




Brief Intro: OGC APIs and the Marine Domain

Trevor Taylor , OGC Marine DWG Co-chair



1

The Open Geospatial Consortium (OGC)

Community – Innovation - Standards



230+ members from industry

120+ government agencies

185+ universities & research orgs

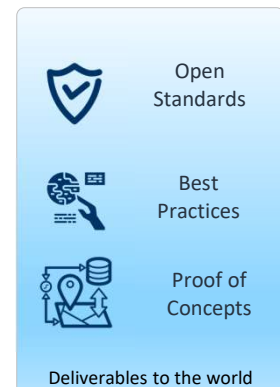
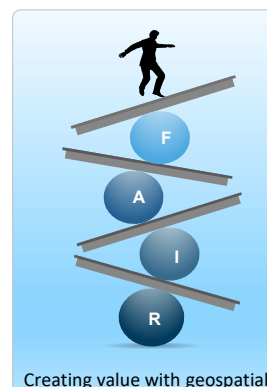
70+ standards

100+ working groups

2

The Open Geospatial Consortium (OGC)

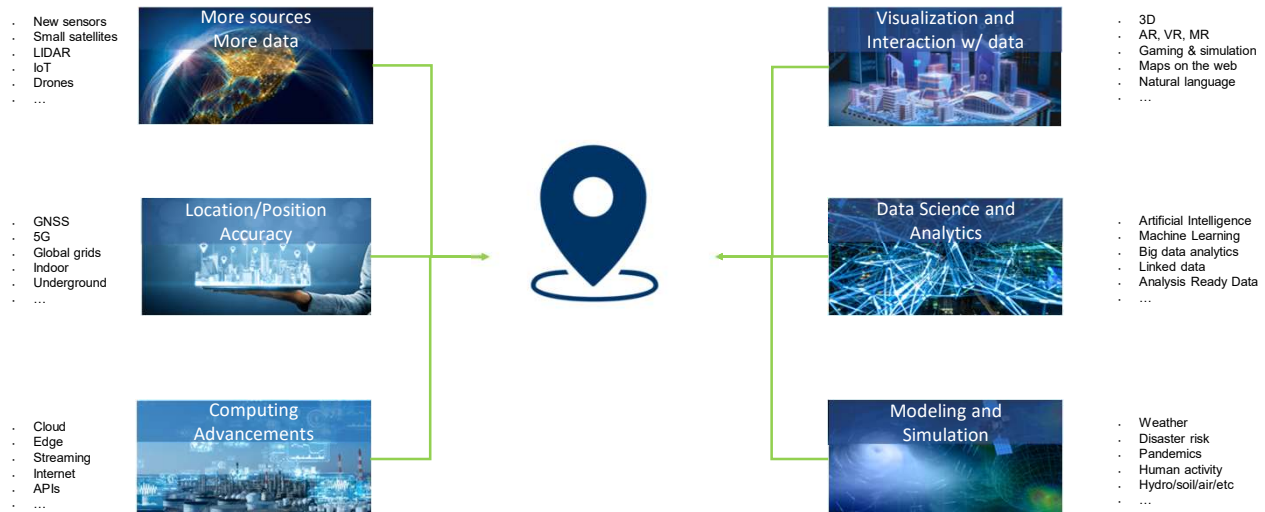
Collective problem solving – Findable, Accessible, Interoperable and Reusable (FAIR)



<https://www.ogc.org/standards>

3

Many Trends – Geospatial is Everywhere



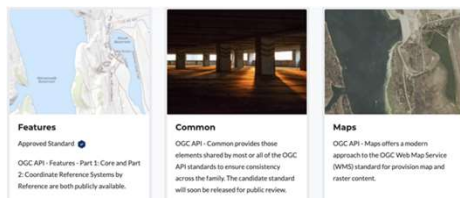
4

Requires Practical Collaboration

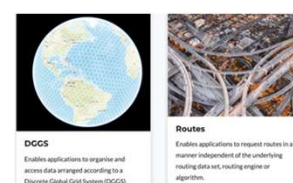
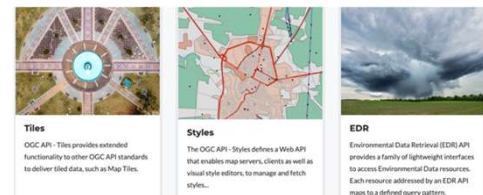
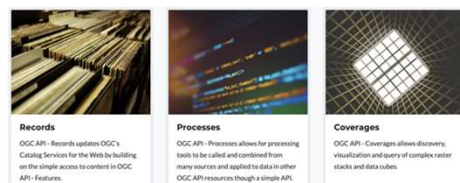


5

Based on Building Blocks, Now and the Future



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



6

Legacy OGC Web Service Standards

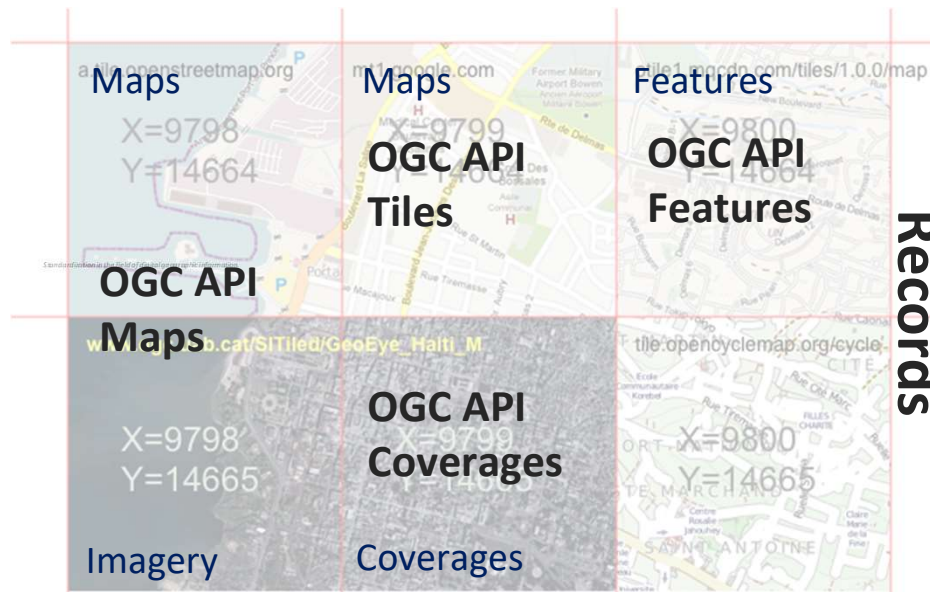


Multiple Maps with common semantics - Interoperability (Source: Joan Maso)

Discover via
CSW

7

OGC API Standards



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

Discover via
OGC API -
Records

8

OGC APIs - <https://ogcapi.org/>

- “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 standards - Marine work

- 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

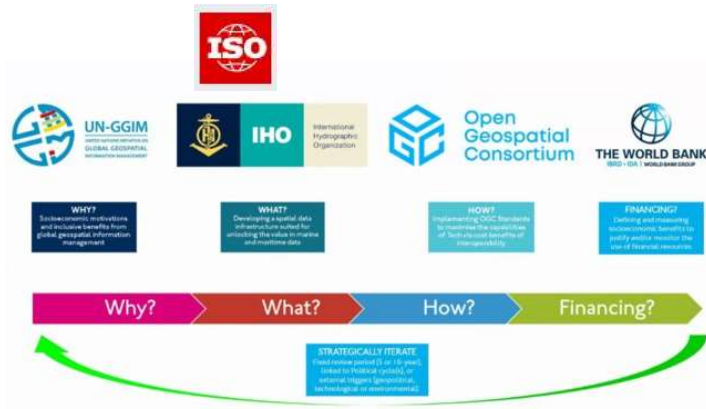


*More on
Thursday !*

10

Partnerships – Critical!

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

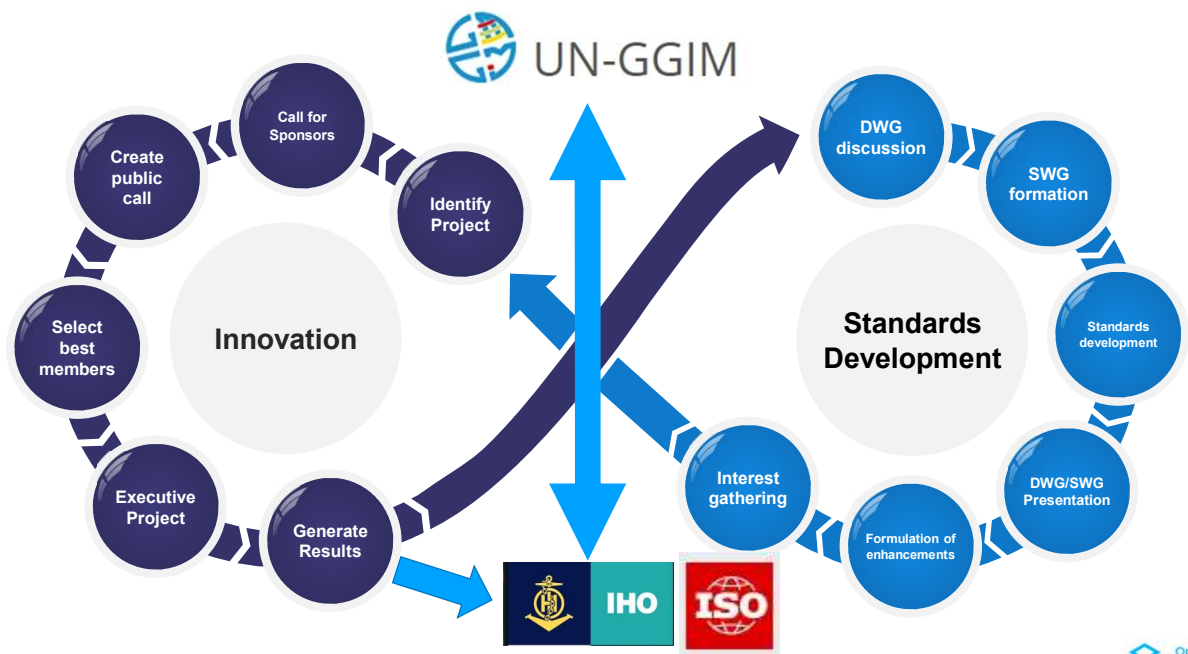


Slide Courtesy of UKHO – Maturity Work Item example

11

11

Close Collaboration - Marine



12

Multi-Year Marine Initiative



13



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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



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