

**1st UN-GGIM MWG
Meeting
OGC Initiatives in the Marine
Domain**

Busan, South Korea

March 7, 2018

Summary



- OGC Marine Domain Working Group (from 2016)
 - Meets at every OGC Technical Committee (Week long event)
 - Meets as part of the IHO MSDIWG to provide technical assistance
 - With sponsor agencies (MPA), organised a Marine Summit in Singapore
 - Meets regularly remotely
 - Reports and inputs to IHO bodies (IRCC and HSSC)
 - Discuss standards and interoperability issues of concern to
 - a) the Marine Community
 - b) adjacent communities (e.g. Land)
 - c) cross community standards and interoperability issues (general challenges)

Selected past Initiatives of Interest



- OGP / IPIECA Oil Spill Response Common Operating Picture (COP) study (Motivated by the Deep Water Horizon Incident)
- Ocean Science Interoperability Experiment
- Environmental Linked Features Interoperability Experiment (ELFIE)
- Climate Challenge - Integration Plugfest (inclusive of ocean data)

Active Initiatives



- Specific
 - Marine Concept Development Study, sponsored by NGA on behalf of IHO and OGC communities
 - S121 Limits and Boundaries Pilot, sponsored by Geoscience Australia, Department of Fisheries and Oceans Canada, Natural Resources Canada and UK Hydrographic Office, on behalf of the IHO and OGC communities
- General
 - OGC Testbed 15 (security, portrayal, discoverability and more)
 - Citizen Science Interoperability Experiment (e.g. crowd sourcing)
 - Disasters Pilot
 - Vector Tiles Pilot (Performance and low/no bandwidth environments via GeoPackage)
 - Second Environmental Linked Features Interoperability Experiment (SELFIE)
 - SSDM/SeabedML as an OGC Community Standard

Opportunities

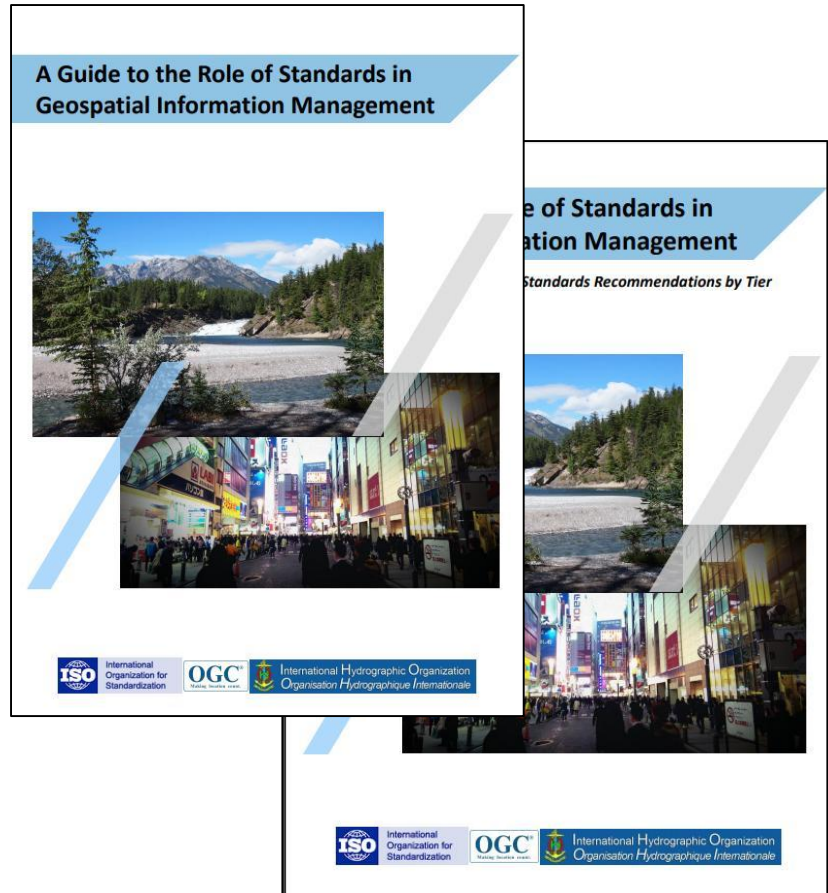


- MSDI Pilot, based on results from MSDI Study – test how it all works! Looking for multiple sponsors
- Marine GeoPackage Interoperability Experiment (in-kind from OGC members and managed by members, not staff)
- Discrete Global Grid Systems/GEBCO/IHO Concept Development Study and Pilot (Outcome from this week) – show how it all could work! - Global Bathymetry Data Management , processing, access, metadata etc.
- OGC Initiatives are dependent on sponsors and other forms of in-kind contributions

And an Idea...

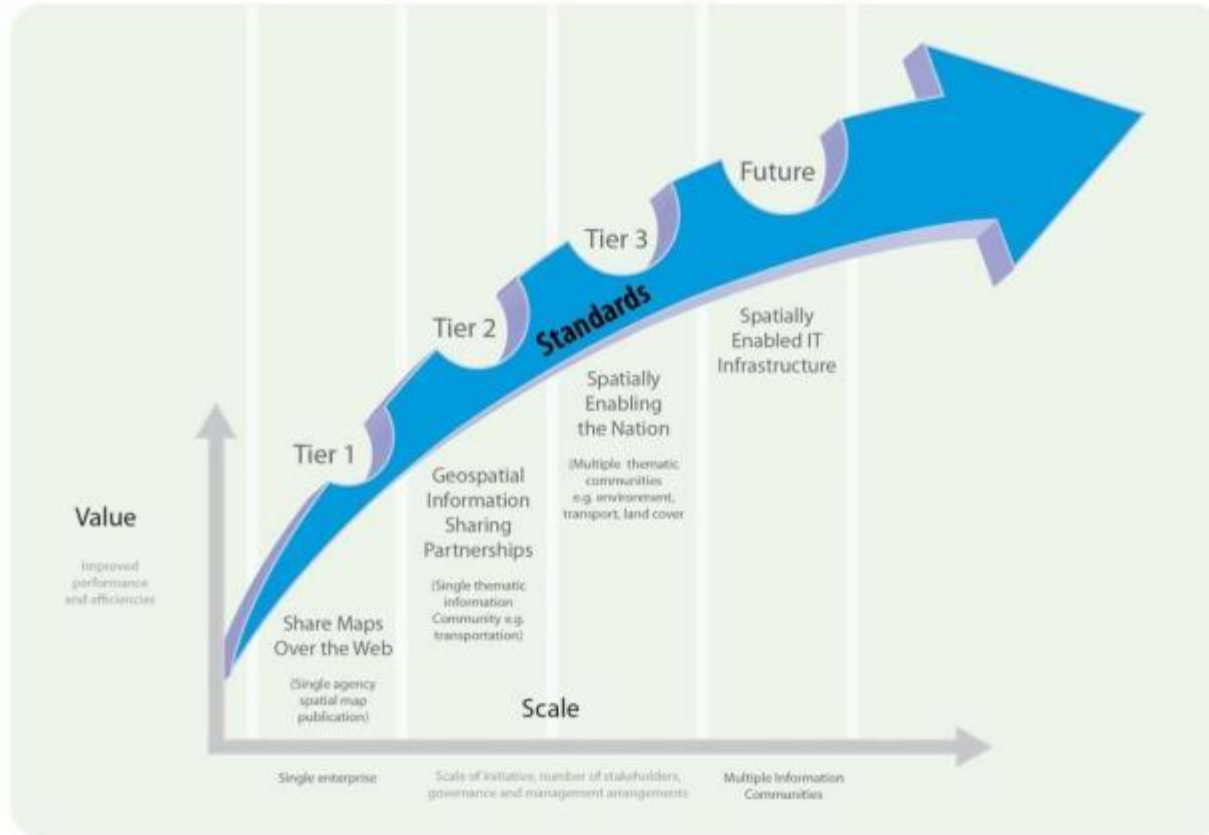


- Guide to the Role of Geospatial Standards and Technical Companion Document (2015, updated 2018).
- Formally adopted "as *the international geospatial standards best practice for spatial data infrastructure* :
- "Encouraged all Member States to adopt and implement the recommended standards appropriate to their countries' level of spatial data infrastructure (SDI) maturity" resolution 5/108.
- OGC, IHO and ISO collaboration
- Plain Language!



http://ggim.un.org/meetings/GGIM-committee/8th-Session/documents/Standards_Guide_2018.pdf

Maturity Continuum



A Marine View ?



- Create a version using a MSDI/Marine viewpoint, inclusive of refinements to the section below ?

GEOSPATIAL STANDARDS	6
Why are standards important?.....	6
What is an “open standard”?	6
How are standards developed?	7
Key types of geospatial standards	7
Key Standards Development Organizations for Geospatial Information	7
Why are Standards Valuable?	9
The Benefits of Open Geospatial Standards.....	10

- Would help IHO , OGC and ISO to support the SDG work

Thanks!



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 - Andy Hoggarth, Andy.Hoggarth@Teledyne.com
 - Jonathan Lewis, jonathan.lewis@ukho.gov.uk
 - Jonathan Pritchard, jonathan.pritchard@iictechnologies.com
- [Marine DWG Wiki](#) (includes links to Marine Summit Presentations)
- MSDI CDS
 - <http://www.opengeospatial.org/projects/initiatives/msdi-cds-2018>
- S121 Boundaries and Limits Pilot
 - <http://www.opengeospatial.org/projects/initiatives/mlbp>
- Marine Geopackage (github) - <https://bit.ly/2U8doTN>
- OGC Points of Contact
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- About OGC
 - www.opengeospatial.org