

Standards for Land Administration

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'Open' Confusion



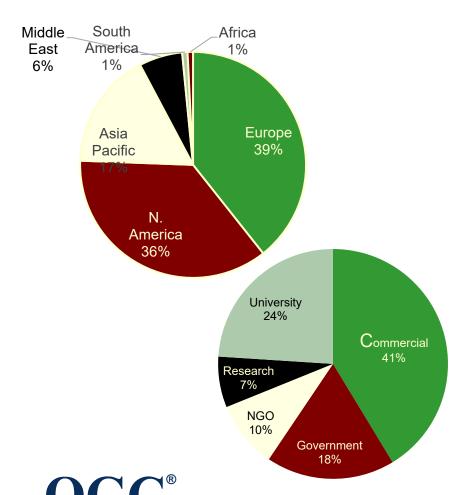
- Open Source, Open Standards, Open Data are all different
- Open Source refers to Software with unrestricted sharing access to the source code, many are also Open Standard compliant, but it is not a requirement
- Open Data is the idea that some data should be publicly accessible to everyone to use and republish as they wish, without restrictions from copyright, patents or other mechanisms of control.
- Open Standard refers to rules, guidelines, frameworks for creating interoperability between servers, sensors, computers, etc both proprietary and open source software can use Open Standards and both open data and restricted data can use Open Standards.



The Open Geospatial Consortium



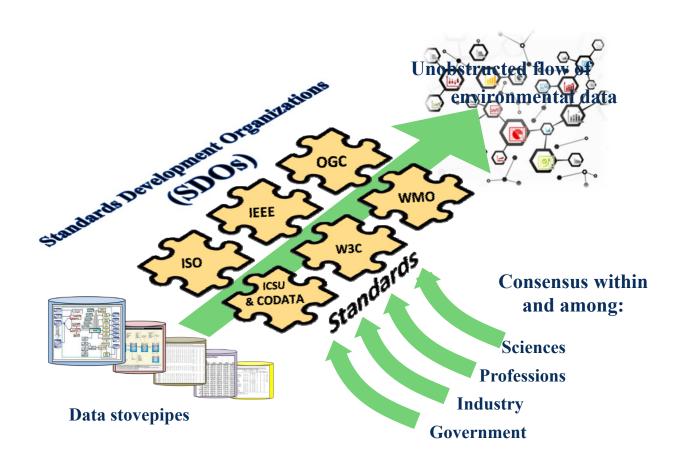
Not-for-profit, international voluntary consensus standards organization; leading development of geospatial standards



- 500+ industry, government, academic, research and NGO members worldwide
- Social and technical forum to align interests in standards and best practices
- 40+ freely available standards
- Supporting best practices
- Thousands of product implementations
- Broad user community implementation worldwide
- Alliances and collaborative activities with many SDOs and professional associations
- Established in 1994

Consensus standards are essential!







Work in Partnership



Formal joint work activities:

- W3C Spatial Data on the Web (semantics & linked data)*
- ISO TC211 Web Services Standards, LADM (PAS org)*
- BuildingSmart BIM/IFC with CityGML
- ISPRS Point Cloud Standards
- IHO Marine S-100 series
- Who else for Land Administration? FIG?

*Permanent Joint Advisory Groups in both organisations



OGC Standards Consensus Program Active Domain Working Groups in the OGC



http://www.opengeospatial.org/projects/groups/wg

- Hydrology
- Meteorology
- Oceanography
- Aviation
- Energy and Utilities
- Emergency & Disaster Management
- Defense & Intelligence
- Earth Systems Science
- Security
- Data Quality
- Big Data

- 3D Information Mgt
- Mass Market
- Public Safety & Law Enforcement
- Geosemantics
- Health
- Agriculture
- Urban Planning
- Land Administration
- Mobile Location Services
- Point Cloud
- Smart Cities



Mountain View CA, USA December 2009



Bonn, Germany, March 2011



Land Administration Domain Working Group



- Purpose / Scope:
 - Examine existing systems of land administration;
 - Develop best practices regarding standardsbased implementations;
 - Identify potential interoperability experiments, pilots and testbeds to validate interoperable solutions
- Emphasis on close coordination with partners in Land Administration
 - SDOs (ISO, OASIS, W3C, IHO etc.)
 - Associations (RICS, FIG, BuildingSmart, etc.)
- Open to OGC members and non-members



Practical Interoperability & Innovation



- Case Studies
- Pilots
- Testing
- Sharing
- Building together

Eg. NYC & Singapore Underground study, Testbed 13, Future Cities Pilot, ArcticSDP





Key to Success: Geospatial Standards Policy







Compliance – Software Acquisition



External identifier of this OGC - document; http://www.opengis.net

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Additional For

Internal reference number of

OGC Compliance Overview - Guide for Software Acquisition

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A Guide to the Role of Standards in Geospatial Information Management

Prepared cooperatively by the

Open Geospatial Consortium (OGC);

The International Organization for Standards (ISO)

Technical Committee 211 Geographic information/Geomatics;

and the

International Hydrographic Organization (IHO).

July 2015



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Data is more valuable as a shared resource





Please keep in touch!

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Open Geospatial Consortium (OGC)



http://www.youtube.com/user/ogcvideo



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