

Open Geospatial Consortium: Introduction, Status and Key activities

Carl Reed, PHD

CTO

OGC

January 15, 2007

The OGC Mission



 To serve as a global forum for the development, promotion and harmonization of open and freely available geospatial standards ...



Geoportal of the Catalonia SDI

Natural Resources Canada





Strategic Goals (2007 Business Plan)

- - Goal 1 Provide free and openly available standards to the market, tangible value to Members, and measurable benefits to users.
 - **Goal 2** Lead the creation of standards that allow geospatial content and services to be seamlessly integrated into business processes, the geospatial web, and enterprise computing.
 - Goal 3 Facilitate the adoption of open, spatially enabled reference architectures in enterprise environments worldwide.
 - Goal 4 Advance standards in support of the formation of new and innovative markets and applications for geospatial technologies.
 - Goal 5 Accelerate market assimilation of interoperability research through collaborative consortium processes.



OGC Snapshot



- Voluntary Consensus Standards Organization
- Founded in 1994.
- Twenty three adopted standards. Four are ISO standards



GeoSciML – GML Application Schema for the Geology community



Global Biodiversity Information



OGC Snapshot



• 349 member organizations from 34 countries & 6 continents

156 North America

- 2 Africa

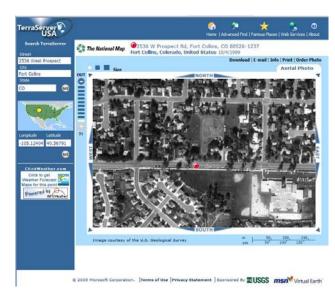
146 Europe

- 1 South America

39 Asia-Pacific

- 5 Middle East

- Additional Best Practices, Standards Profiles
- OGC standards used in broader IT standards (OASIS, IETF, others)
- Hundreds of product implementations



Microsoft Terraserver



OGC's Approach for Advancing Interoperability



 Interoperability Program (IP) - a global, innovative, hands-on prototyping and testing program designed to accelerate interface development and validation, and bring interoperability to the market

Rapid Interface Development

Standards Setting

Specification Development Program

-Consensus processes similar to other Industry consortia (World Wide Web Consortium, OMA, OMG, etc.).

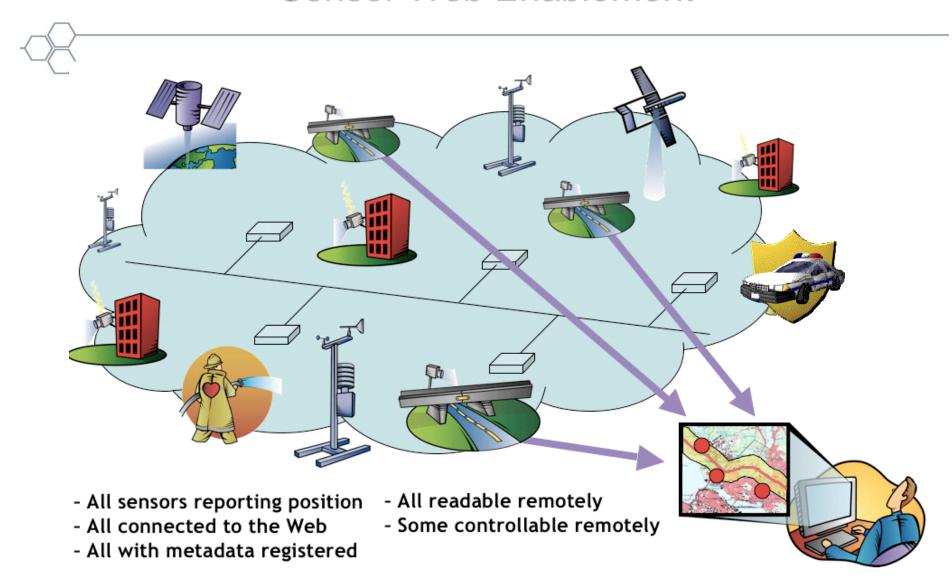
Outreach and Community Adoption
 Program – education and training, encourage take up of OGC specifications, business development, communications programs

Market Adoption



Helping the World to Communicate Geographically

Sensor Web Enablement





Geospatial Rights Management

 OGC members are leveraging broader standards-based Digital Rights Management (DRM) approaches in conjunction with OGC standards to support geospatial data and services rights

management needs.

Authentication

Secure Distribution

Licensing

Pricing

GeoDRM Reference Model:

http://portal.opengeospatial.org/files/?artifact_id=14085

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Helping the World to Communicate Geographically

CAD-GIS Integration: 3D City Models (CityGML)





Source: T. H. Kolbe: Standardization of 3D City Models



- Urban Planning
- Urban Modeling
- Microclimate Analysis
- Emergency
 Management and
 Response
- Logistics Flow
- Critical Infrastructure Management / Protection
- Sustainable Communities
- Retail Services