



Open Geospatial Consortium: Introduction, Status and Key activities

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CTO

OGC

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The OGC Mission

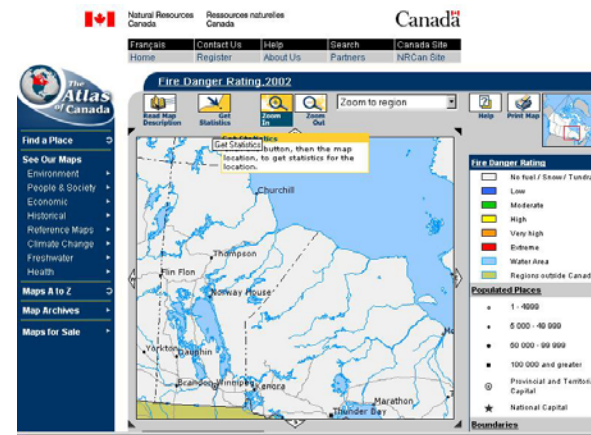


- To serve as a global forum for the ***development, promotion and harmonization of open and freely available geospatial standards ...***



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

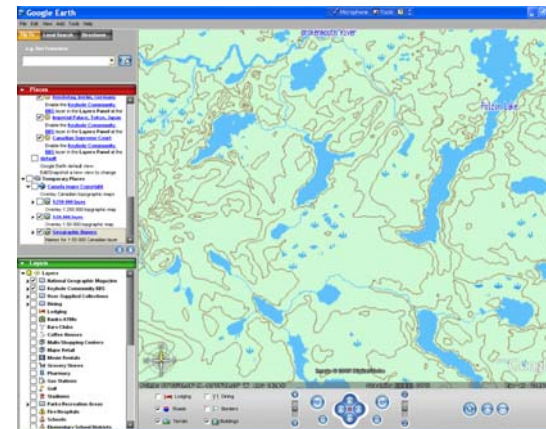


- Voluntary Consensus Standards Organization
- Founded in 1994.
- Twenty three adopted standards. Four are ISO standards



**GeoSciML – GML Application
Schema for the Geology community**

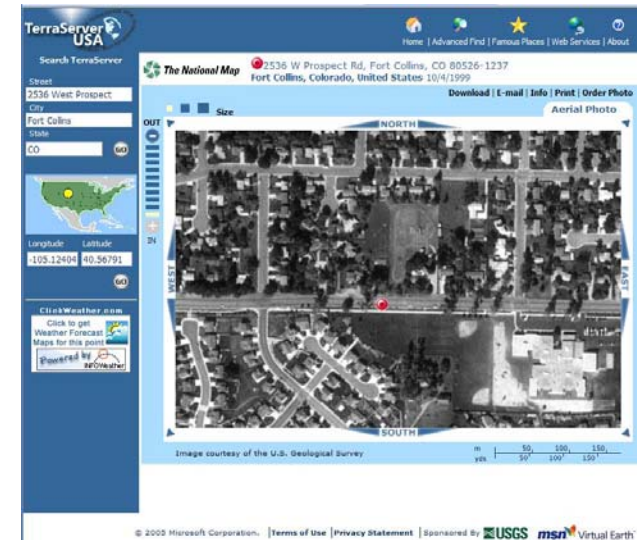
Global Biodiversity Information Facility



OGC Snapshot

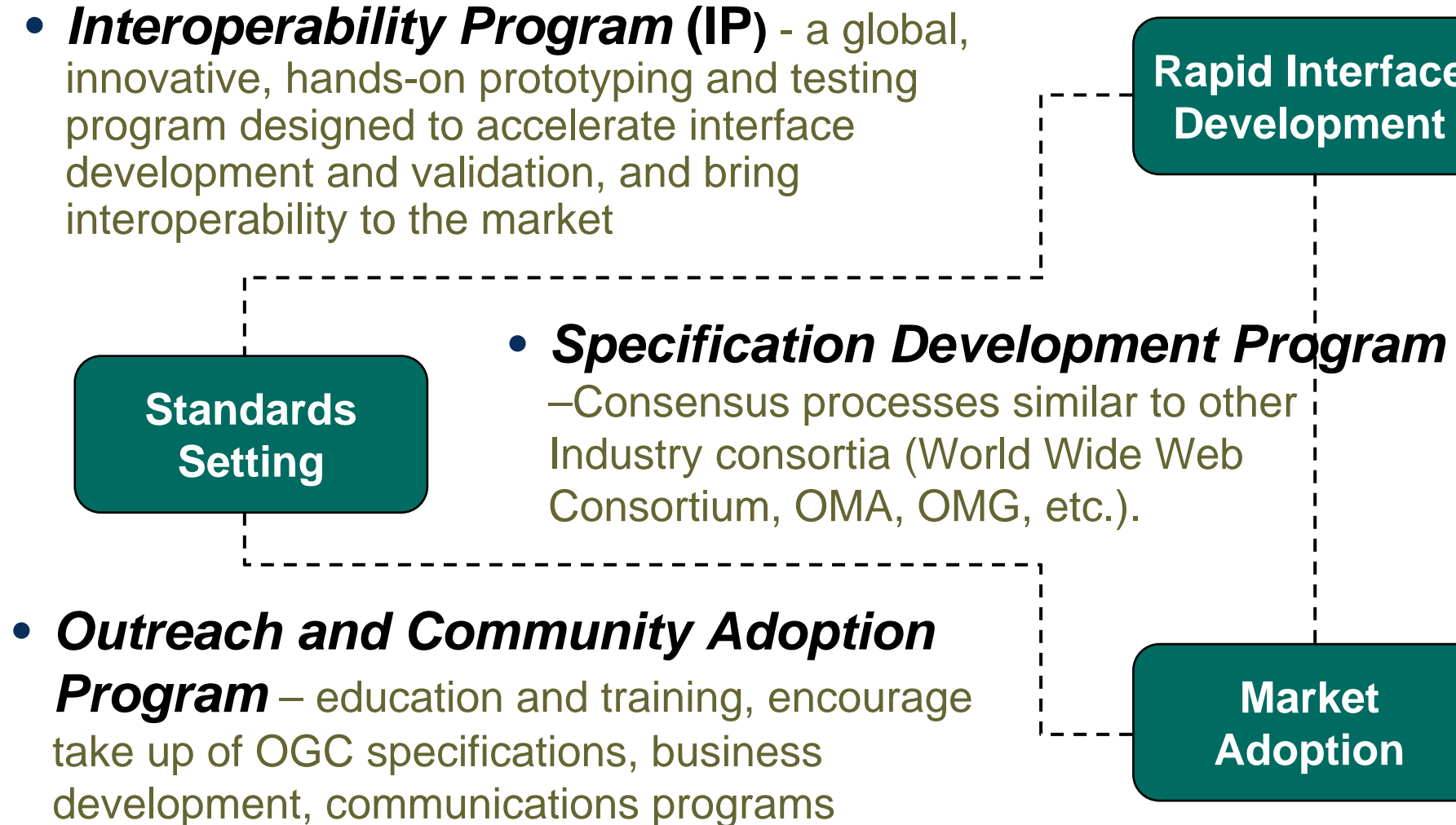


- 349 member organizations from 34 countries & 6 continents
 - 156 North America
 - 146 Europe
 - 39 Asia-Pacific
 - 2 Africa
 - 1 South America
 - 5 Middle East
- Additional Best Practices, Standards Profiles
- OGC standards used in broader IT standards (OASIS, IETF, others)
- Hundreds of product implementations

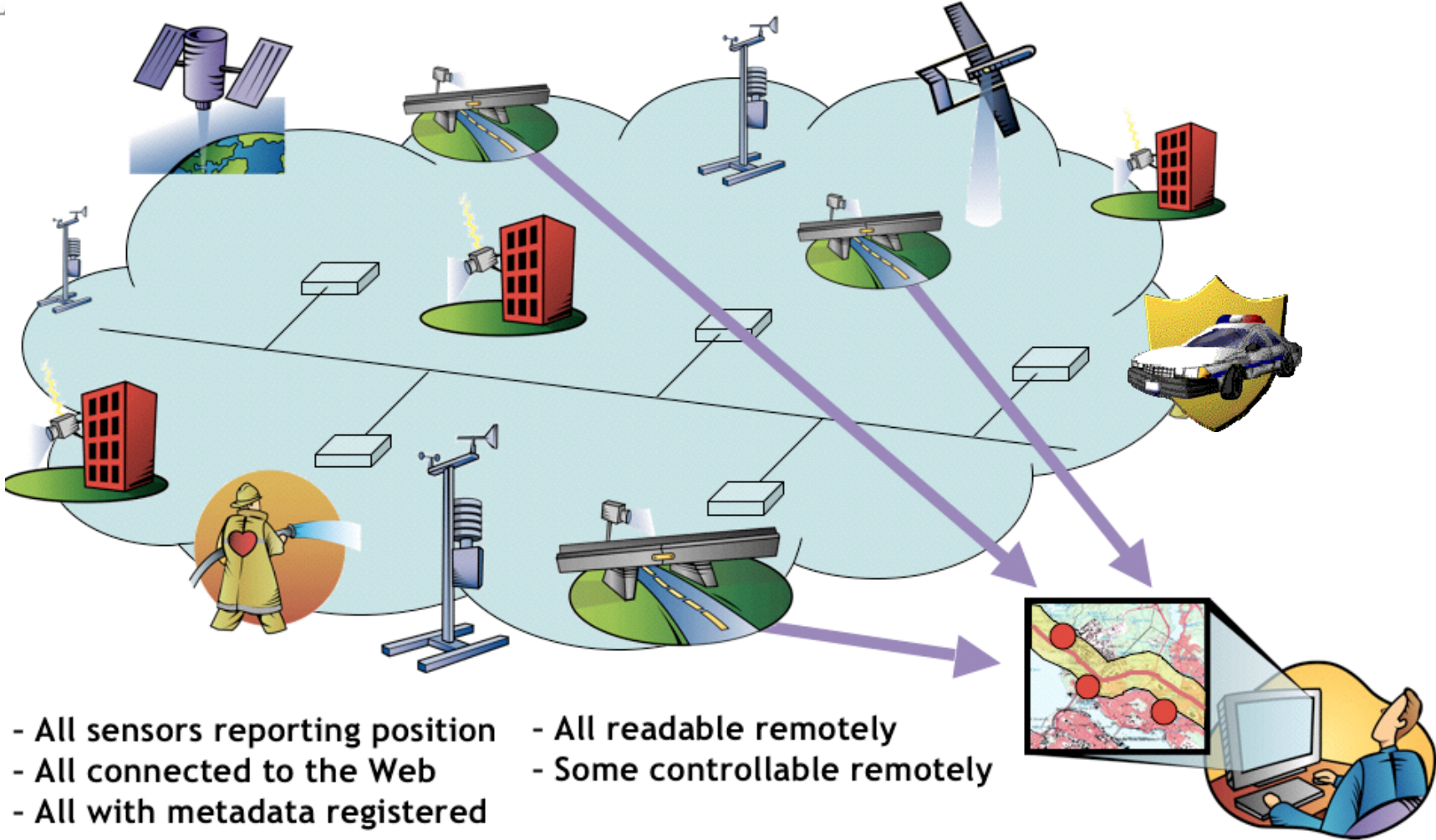


Microsoft Terraserver

OGC's Approach for Advancing Interoperability



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

Licensing

Secure
Distribution

Pricing

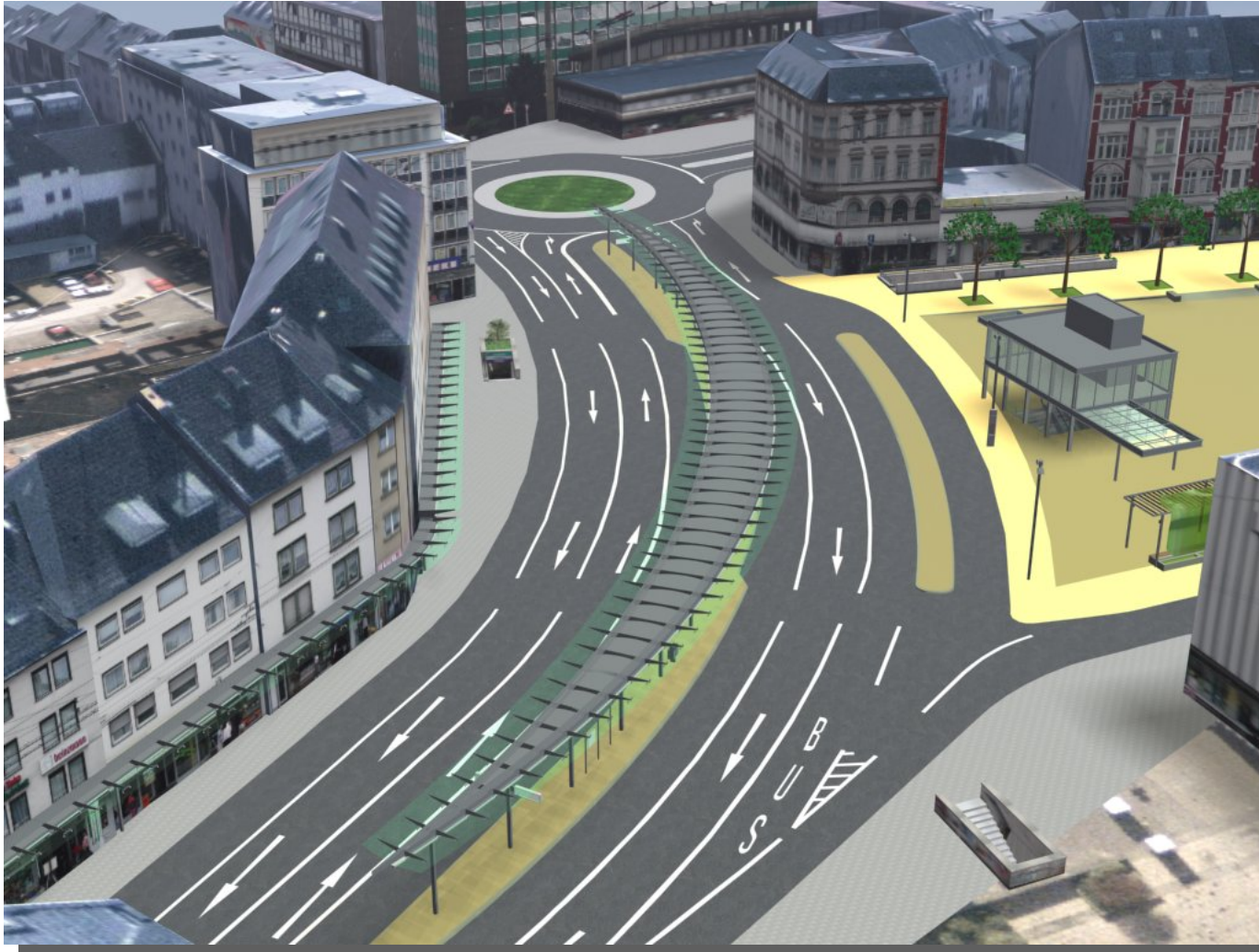
GeoDRM Reference Model:

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

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