OGC
Open Geospatial Consortium

Observations on the Proposed Standardised Cadastre Domain Model – Where Do We Go From Here?

Louis Hecht, USA
Presented by
Sam Bacharach, USA
Open Geospatial Consortium, Inc.

Agenda

- Introduction to OGC
- What OGC Does
- How that fits the Standardised Cadastre Domain Model (SCDM)
- The Way Forward
- Summary

What is the OGC?

- **Open GIS Consortium (OGC)**
  - Not-for-profit, international voluntary consensus standards organization
    - Incorporated in US, UK, Australia
  - 260+ industry, government, and university members
  - Class A Liaison of ISO TC 211 and CEN TC 287
  - Founded in 1994

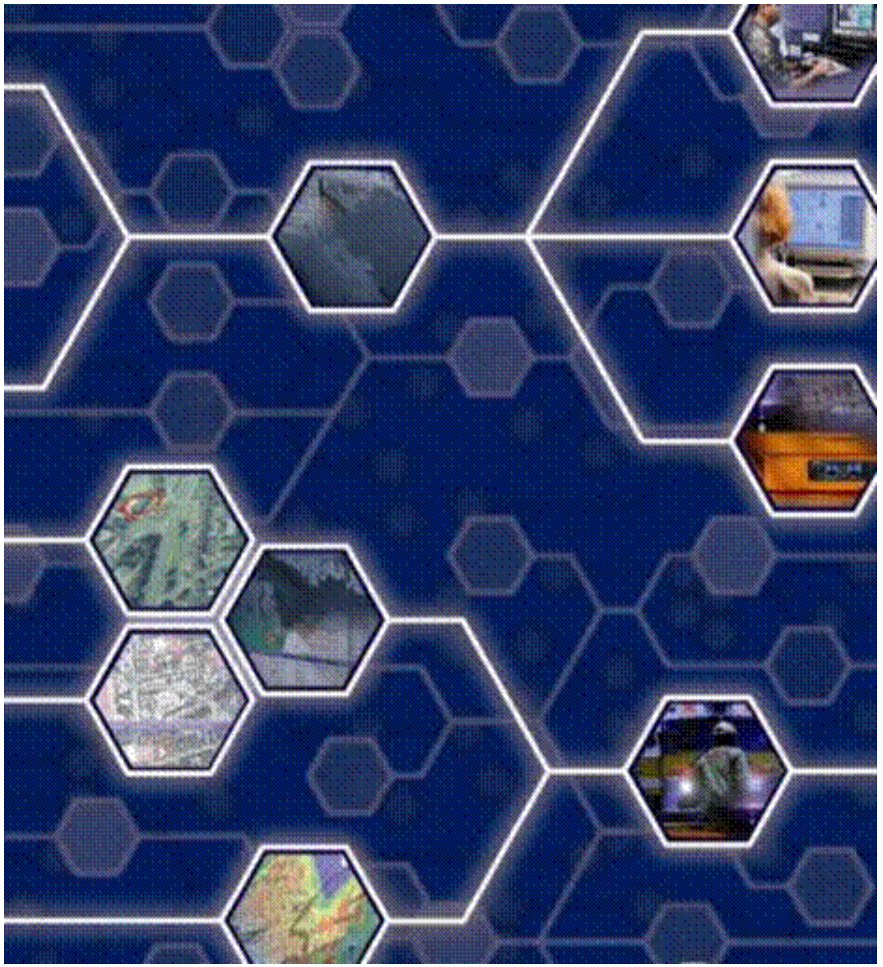
OGC Mission

Our core mission is to deliver interface specifications that are openly available for global use.

OGC

The Open GIS Consortium Vision

A world in which everyone benefits from geographic information and services made available across any network, application, or platform.



OGC

The Growth of OGC

- Over 260 members worldwide – 30 countries & 5 continents
  - 90+ European members - 19 countries
  - 35+ Asia-Pacific members - Japan, Republic of Korea, Australia, China, and Thailand
- Fourteen approved, publicly available Implementation Specifications
  - Two ISO approved, one close, up to four in work
- Broad participation with other industry and international standards organizations – OMG, OMA, OASIS, W3C
- 30+ candidate Implementation Specifications in work
- OGC Reference Model defines interoperable geo architecture
- Rapidly growing list of vendor implementations

OGC

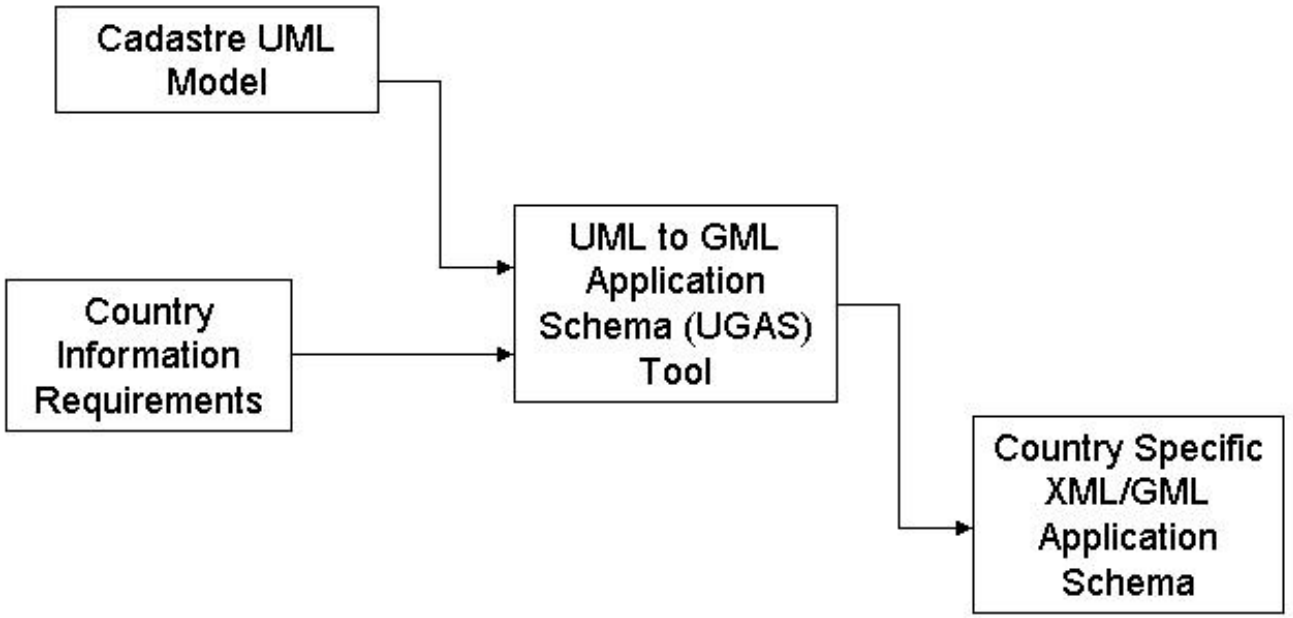
What OGC Does: provides interoperability

- OpenGIS Specifications have been agreed to by a broad swath of the entire community and are supported by most of the geoprocessing software vendors
- OpenGIS links geographic data with mainstream IT… via the geospatial architecture in which geospatial components from multiple sources can plug-and-play through standard interfaces.
- OpenGIS maintains a leading technical architecture made up of the suite of interfaces for the benefit of the industry and its customers and works to minimize greed, parochialism, and lethargy in the market
- Vendor implementation in products enables you, the customer, to directly access and use data produced by programs from many vendors -- not just one

How that fits the SCDM

- SCDM provides Cadastre Community consensus of what data needs to be captured and shared
  - Attributes of a parcel
  - Geometry of a parcel
    - Accuracy
    - Data type – point, line area
- OGC provides proven way to make that data model work in a computer processing system
- Geography Markup Language (GML) encoding of XML that describes the features and geometry of the cadastral model
- Software providers then use OGC compliant GML to share data amongst their different packages

How it Works



The Way Forward

- Complete the Standardised Cadastre Domain Model
- Design business architecture around open, industry, information technology consensus standards
  - OGC IS and GML (XML), SOAP, WSDL, TCP/IP
  - Model for how disparate entities interact
    - Think 50 hertz, 220 volt electric power grid
- Create GML Application Schema of SCDM
  - OGC Europe can assist
- Challenge industry to provide applications that use this GML (XML) application schema to share with one another

Summary

- OGC has 10 years and many successes under its belt in the design and standardisation of internationally approved, consensus industry specifications
- SCDM is an absolutely necessary, very important part of the process
  - It is impossible to meaningfully share data you do not understand
- Next steps are completion of SCDM and creation of a GML (XML) application of the SCDM
- Challenge GIS industry
  - Open, interoperable solutions are the only acceptable answer to your needs