Findable
Accessible
Interoperable
Reusable

The world’s leading and comprehensive community of experts making location information:

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Open Geospatial Consortium (OGC)

550+ Members

Findable
Accessible
Interoperable
Reusable
Mission

Open Standards
Best Practices
Proof of Concepts
Products
Holistic View

Key elements

Real World
- Understand needs and potential, define scenarios

Data
- Produce FAIR data

Data Spaces
- Consolidate data access + interoperability

Tools
- Develop advanced analytics and AI

Knowledge & Information for Policy
- Understand value in local policy; understand transferability to other cities

Project Products / Tasks
- What do we have?
- What do we need?
- Who participates?
- Status quo
- Scenarios

Leading Questions / Aspects
- Understand available data
- Explore local data integration concepts
- Produce new data

- Develop urban data space
- Embed in data space market
- Explore digital twin

- Converge HPC, cloud, edge, GEOSS
- AI

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Enhanced Interoperability
Transition Paths

1. UGAS
   - UML
   - Potential of new DB types?
   - Best practices OGC APIs with these DB types?

2. UGAS
   - Alternatives to JSON Schema
   - Graph approaches? SHAQL Shapes?
   - Validation options compared to XSD?
   - Consistency checks?

- DB / Graph DB / Document DB
- Definition of styles that fulfill legal requirements

- Specific styles
  - API-Styles
  - API-Maps
  - API-Features

- 3D CityGML
  - Extraction of relevant metadata?
  - Storage of metadata?

- API-GeoVolumes
  - Deriving 3D objects from formerly 2.5D objects
  - Serve data as CityGML?

- DB
  - GetFeaturalInfo?
  - API building blocks?

- WMS
- WFS

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Thank You!

Community
500+ International Members
110+ Member Meetings
60+ Alliance and Liaison partners
50+ Standards Working Groups
45+ Domain Working Groups
25+ Years of Not for Profit Work
10+ Regional and Country Forums

Innovation
120+ Innovation Initiatives
380+ Technical reports
Quarterly Tech Trends monitoring

Standards
65+ Adopted Standards
300+ products with 1000+ certified implementations
1,700,000+ Operational Data Sets
Using OGC Standards