

SWIM Connect 2015

*Open Geospatial
Consortium: Improving
SWIM Interoperability*

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Federal Aviation
Administration

The logo for SWIM connect 2015, featuring the text "SWIM" in a large, bold, black font, followed by "connect 2015" in a smaller, black font. To the right of the text are three blue circles of varying sizes, arranged in a triangular pattern. The entire logo is set against a white circular background with a blue gradient at the bottom right.

SWIM
connect 2015

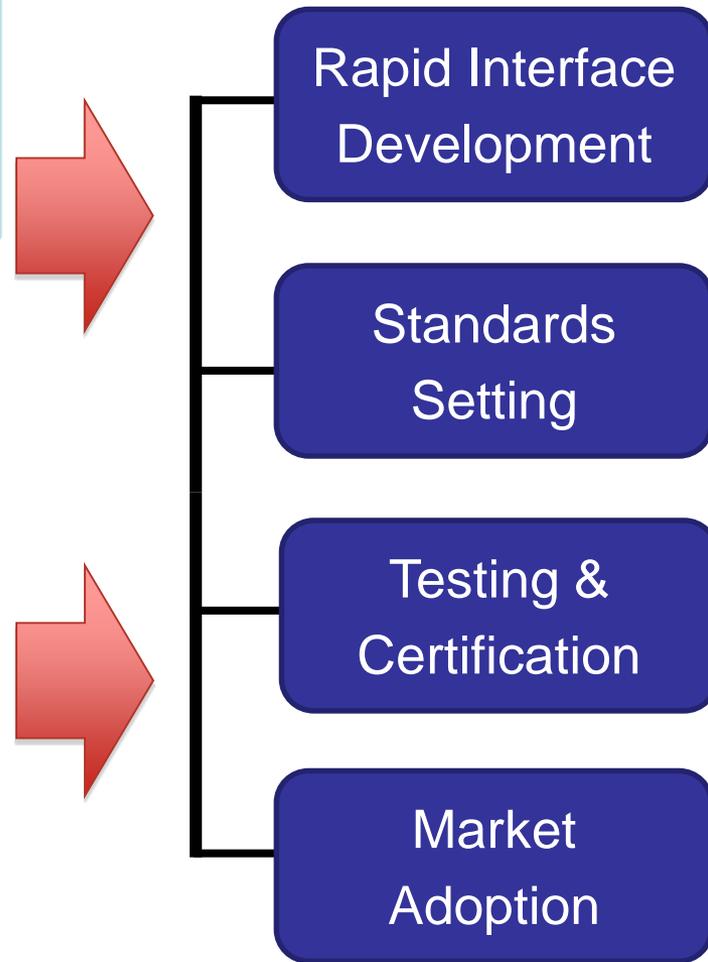
What is OGC?

OGC

Making location count.

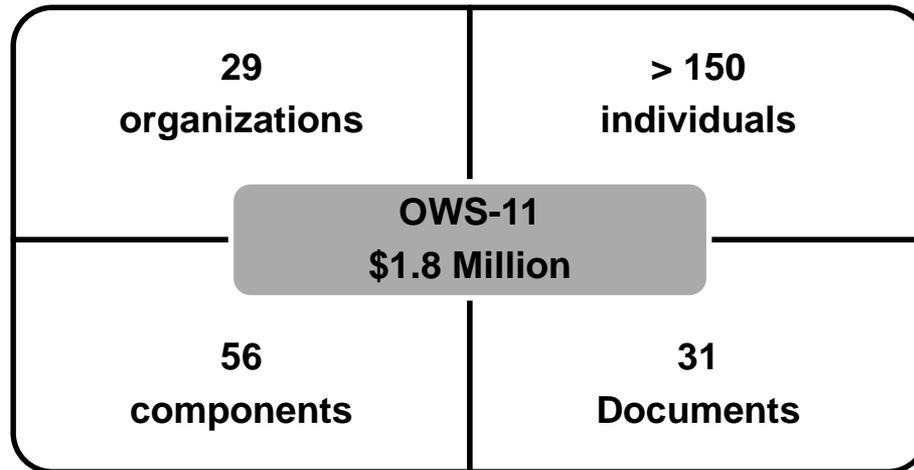
Advancing Interoperability

- **Interoperability Program (IP)** – a global, innovative, hands-on rapid prototyping and testing program designed to unite users and industry in accelerating interface development and validation, and the delivery of interoperability to the market
- **Standards Program** – Consensus standards process similar to other Industry consortia (World Wide Web Consortium, OMA, etc.).
- **Compliance Testing and Certification Program** – allows organizations that implement an OGC standard to test their implementations with the mandatory elements of that standard
- **Communications and Outreach Program** – education and training, encourage take up of OGC specifications, business development, communications programs



OGC Testbed 11

OGC Testbeds provide an environment for collaborative, fast-paced, multi-vendor, rapid prototyping efforts to define, design, develop, and test candidate interface and encoding specifications.



Benefits of Involvement

For Participants

Business potentials

- Early insights and skill building
- Early visibility
- Early market deployment
- Direct influence
- Broaden market reach

For Sponsors

Significant efficiencies

- *Ability to Determine Market Interest*
- *Accelerated process - workable interface specifications in 4-6 months*
- *Vendors test, validate and demonstrate interface integrity – Rapid time to market*
- *Leverage of other sponsor' funding to solve common/similar problems*
- *Significant ROI 2-3.5 overall (and as high as 25 for individual sponsors)*

OGC Testbed Deliverables

1. Technical Documents

(draft standards, best practices, change requests, etc.)

2. Prototype Implementations

(services, clients, tools, etc.)

3. Demonstrations

OGC Testbed 11 Sponsors

- **European Organization for the Safety of Air Transportation (EUROCONTROL)**
- Land Information New Zealand (LINZ)
- National Geospatial-Intelligence Agency (NGA)
- National Aeronautics and Space Administration (NASA)
- UAE Ministry of Interior Abu Dhabi Police GIS Center for Security (UAE - ADP GIS CS)
- UK Defense Science and Technology Lab (UK-DSTL)
- US Department of Homeland Security (DHS)
- **US Federal Aviation Administration (FAA)**
- US Geological Survey (USGS)

Aviation Thread Participants



Aviation Thread Topics

- Semantics of Business Vocabulary and Rules (SBVR)
- Digital NOTAM Enrichment & Validation
- Aviation Feature Schema (AFX)
- Data Broker Service
- Aviation Symbology

OGC Testbed 11 - Aviation



Engineering Reports

Aviation Thread Architecture ER (Doc 15-025)

- Editor: Interactive Instruments
- Contributor: All Aviation Thread Participants

Guidance Using SBVR for Geometrical Constraints ER (Doc 15-024)

- Editor: Interactive Instruments
- Contributor: m-click

Digital NOTAM Validation and Enrichment Service ER (Doc 15-027)

- Editor: m-click
- Contributor: Snowflake Software

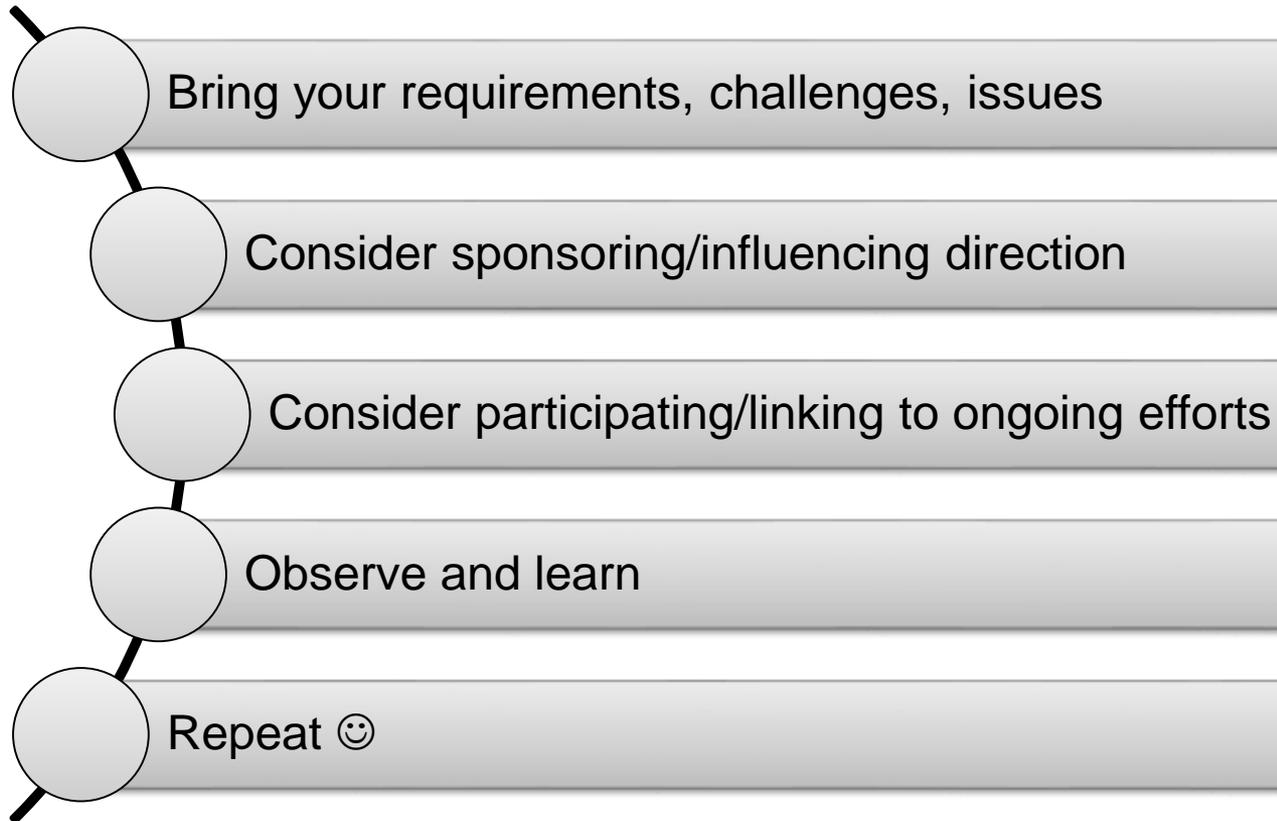
AFX Feature Schema Recommendations ER (Doc 15-026)

- Editor: Snowflake Software
- Contributor: Atmosphere & Safe Software

Data Broker Specifications ER (Doc 15-028)

- Editor: Luciad

How to get the most of it?





Aviation of the Future

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