

European Test bed – Joint collaboration: EuroGeographics and OGC

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TESTBED EUROPE

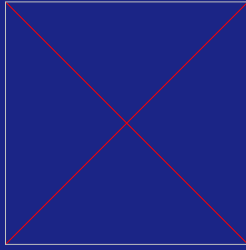
Time	Presenter	Topic	Description
10:30	Sallie Payne Snell - EuroGeographics	Welcome	Opening remarks and welcome to the Testbed Europe session.
	Muthu Kumar - OGC	Introduction to Testbed Europe	Overview of the initiative: what it is, why it matters, and the major work streams envisioned.
		How OGC Testbeds Work	Sponsors define requirements and provide budget. OGC assembles the right industry players to collaboratively solve those requirements, redistributing the budget across the initiative.
		The Ask: Sponsor Engagement	What do you need? What can you sponsor? Presentation of the sponsorship ask, open requirements, and the timeline for when commitments are needed.
	Michael Gordon	Operationalizing National Data at Scale	From Legacy Services to Modern Web APIs: Best Practices and Implementation Lessons from the Field
11:30	All	Q&A	Open floor for questions and discussion.

Questions

- We will use Sli.Do for questions and comments
- Please start the question with the name of the speaker so we know who to address the question to

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TESTBED ON TRUSTED DATA & SYSTEMS:

Addressing shared challenges

Muthu Kumar

31st March 2026

National Mapping, Cadastre, And Land Registry Authorities Are Facing a Growing Set of Shared Challenges

Across Europe and beyond, agencies are under pressure to modernize, interoperate, strengthen trust, and do more with limited capacity.

Modernisation Pressure

- legacy systems are hard to evolve
- transition from WMS/WFS to OGC APIs
- metadata needs to support AI-era workflows

Interoperability Gaps

- fragmented models and systems
- difficult cross-domain integration
- weak links across identifiers and registers

Trust and Security Demands

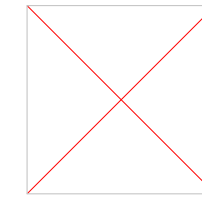
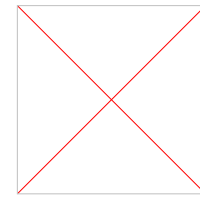
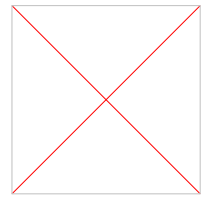
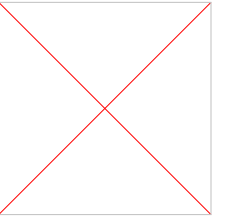
- stronger provenance and lineage requirements
- growing need for data integrity and traceability
- handling sensitive geospatial data safely

Limited Capacity, Growing Expectations

- limited funds for innovation
- cannot staff additional work internally
- public value not always reflected in platform relationships



Testbed on Trusted Data and Systems Is Being Developed to Address These Shared Challenges



WHY A TESTBED APPROACH?

Why a testbed-based approach provides a practical way to reduce risk, share effort, and accelerate progress.

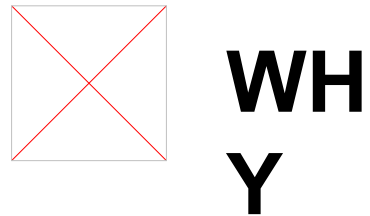
WHAT DOES THE TESTBED ADDRESS?

What common challenges in trusted data, interoperability, and modernisation this testbed is intended to tackle.

HOW CAN ORGANISATIONS GET INVOLVED?

How can National Mapping, Cadastre, And Land Registry Authorities help shape priorities, contribute expertise, and support the work through participation and sponsorship.

Testbeds are pre-production environments designed to validate approaches, reduce risk, & inform future operational implementation



Why collaborate

- Earlier visibility into practical approaches before committing to larger investments
- Shared challenges are costly to solve repeatedly in isolation
- A common approach reduces duplication and fragmentation

How a testbed works

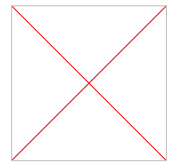
- Pools financial resources from multiple sponsors to tackle the shared challenges
- Provides a low-risk environment for prototyping and testing
- Turns shared priorities into practical engineering work

What sponsors gain

- A stronger basis for future implementation, procurement, and standards alignment
- Faster learning and shared progress
- Lower financial and implementation risk

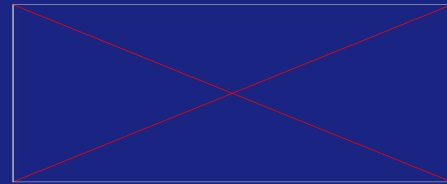


The Testbed on Trusted Data and Systems Translates Shared Challenges into 9 Practical Workstreams



WHA
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In Partnership with



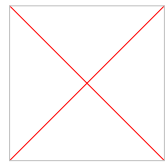
1. Renew the Engine: From Legacy Services to Modern Web APIs
2. Fair Exchange Between Authoritative Data Providers and Commercial Platforms

Additional workstreams

3. Addressing Resource Shortages: Outsourcing Research and Enhancement to OGC
4. Semantic Interoperability: Aligning Data Models Without Forcing Convergence
5. Protecting Sensitive Geospatial Data: Technical Approaches
6. Common Identifiers: Bridging Different Systems for Geographic Features
7. Data Aggregation and Assembly at the National Level
8. Integrity, Provenance, and Trust
9. Future Ready Geospatial Metadata for AI and Advanced Technologies



EuroGeographics + OGC: Two joint work streams on modern service delivery and fairer value exchange



HOW

1. Renew the Engine: From Legacy Services to Modern Web APIs

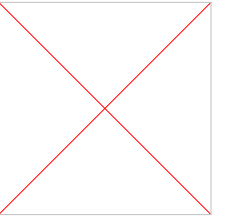
- **Why it matters**
Legacy services are harder to scale, integrate, and evolve for modern use.
- **What the work explores**
Define and pilot migration pathways to OGC API standards, including OGC API Features, Tiles, Maps, and Coverages
- **What is enables**
Lower-risk modernization with reusable guidance.

2. Fair Exchange Between Authoritative Data Providers and Commercial Platforms

- **Why it matters**
Authoritative public geodata creates significant value that is not always fairly returned.
- **What the work explores**
Governance and Technical Models inspired by Wikimedia Enterprise for more balanced exchange with commercial platforms.
- **What it enables**
Stronger long-term sustainability, better recognition, and a fairer return on public data value.



A Shared Investment in Reusable Innovation



Shape the agenda

Help define the priorities and work streams that matter most to your organisation.

Support the work

Fund and contribute to a shared pre-production innovation effort.

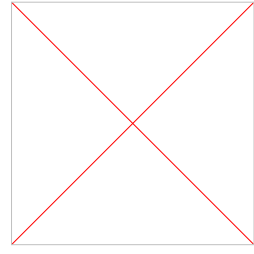
Benefit from the outcomes

Gain reusable insights, tested approaches, and stronger foundations for future implementation.



Testbed on Trusted Data and Systems

The testbed offers a practical way for organizations to jointly address shared challenges, reduce risk, and create outcomes with wider value.



THANK YOU

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