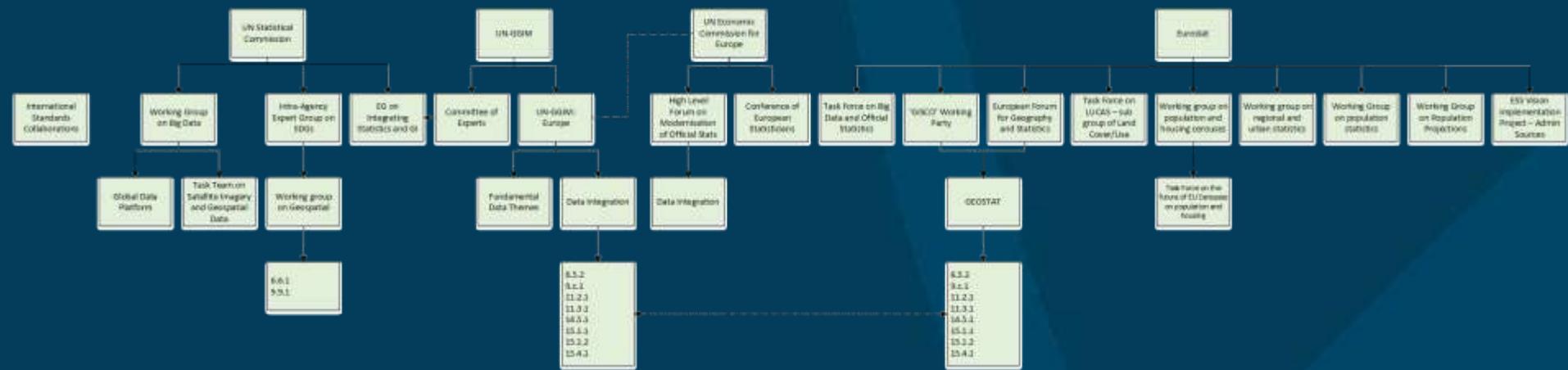


OGC Statistical Domain Working Group

GISCO Working Party – 17th April 2018

Statistics and geospatial: more collaboration



- April 2017 – UNECE proposes greater collaboration with UN-GGIM:Europe
 - Proposed to jointly host a workshop around standards as a starting point for this collaboration
 - Importance of standards also recognised through principles of GSGF – not just principle 4!

Standards Workshop

- Jointly organised by UNECE and UN-GGIM:Europe
- Hosted in Stockholm from 6-8 November 2017
- Around 70 attendees from across Europe but also attended by Australia, US, New Zealand, Canada, Mongolia and Japan.
- Topics included an introduction to statistical and geospatial standards, examples of integrating statistical and geospatial standards and models, challenges and solutions for creating geospatial statistical outputs and future work relevant to statistical and geospatial standards

Stockholm Outcomes 1

- Lots of commonality in global approaches – driven by 5 principles of GSGF.
- Challenges are not necessarily technical – more about culture, behaviour and communication.
- Knowledge gap between stats and geo communities – makes integrated data architecture more difficult as geospatial does not fit well to the existing statistical processes
- Terminology can be misinterpreted between communities e.g models, frameworks and standards.

Stockholm Outcomes 2

1. A pitch statement to present to senior managers and leaders to gain buy-in and funding
2. A beginner's guide to using standards from both communities.
3. Both communities to develop communication materials that simply describe the interrelationships between their frameworks, models and standards.
4. Pilot to determine options for persistent ids to link aggregate statistical outputs to standard geographies.
5. Look for opportunities to work on semantic interoperability issues (for example, ontology for addresses and buildings).

Stockholm Outcomes 3



6. Improve the discoverability of geospatial tools that are based on standards.
7. Guidance on how to store geospatial objects references/links in existing statistical databases
8. Map the data exchange process between statistical and geospatial organizations.
9. Examine comparative use cases for application of traditional geography and emerging grid technologies, particularly for dissemination of statistics.
10. Examine pathways and interest within Statistical Community to move to formal ISO Standards for models and frameworks in addition to existing ones (e.g. ISO/TC 154).

Proposed OGC Charter

“The Statistical DWG is chartered to identify requirements and use cases of how geospatial and statistical standards can support the integration of geospatial information into the statistical system and for the purposes of broad discovery, analysis and use”

- Discuss and identify primary statistical use cases that would benefit from OGC standards.
- Identify statistical domain requirements for inclusion in existing or new OGC standards.
- Identify other practice areas in the OGC that support or could be influenced by statistics.
- Identify statistics-related use cases and workflows for Interoperability Experiments or Testbeds.

Proposed OGC Charter – Planned activities

1

Outreach to and organisation of OGC members as well as external organisations to contribute to the DWG.

2

Describe the landscape of statistical production and identify the opportunities for the integration of geospatial information.

3

Communicate the geospatial requirements from the statistical community to the OGC.

4

Communicate the geospatial expertise in the OGC, such as existing applicable standards, to the statistical community.

5

Insert statistical requirements into other OGC standards and interoperability activities.

OGC *ad hoc* Statistical Meeting - Orleans

- Held at the OGC Technical Committee in Orleans – c.20 people in room and 10 over internet
- Agenda – drivers for a domain working group, overview of the charter, review of existing work – TJS, GeoPackage, Spatial Data on the Web, Discrete Global Grids
- Having a domain working group does not require OGC membership to contribute
- Lot of work to integrate stats and geo already done by meteorological community – need to learn from them
- Lots of OGC activity taking place in silos – opportunity to bring this work together and give it more direction

Looking forward

- Charter to be loaded onto the OGC portal – minimum of 3 weeks before voting
- Charter to be put to the membership at the next Technical Committee – Fort Collins on 7 June
- First formal meeting to be held as a side-event of UN-GGIM 8 on 30 July – opportunity to bring stats and geo communities together
- Also discussions about rationalising some OGC technical work – proposal to bring some of it under statistics ‘banner’