

TITLE DETAILS

Workshop title: **INSPIRE Coverages, Demystified**

Workshop length: 1 hour

Workshop type: combined tutorial/demonstration/hands-on work

WORKSHOP FACILITATOR DETAILS

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WORKSHOP DESCRIPTION INCLUDING LEARNING OBJECTIVES

Coverages appear across many INSPIRE themes in Annex II and III; specifically as raster data they represent a key part of any geographic data asset. Both WCS (with its geo datacube processing language, WCPS) and SOS are foreseen for serving them.

However, from the Technical Guidance documents it is not immediately clear how to implement coverage services. Therefore, OGC, ISO, and INSPIRE experts have teamed up to establish best practices, evaluated and demonstrated through sample services.

In this hands-on workshop we will introduce INSPIRE coverage handling and explain step by step how coverages can be modelled with fully INSPIRE-compliant metadata while still compliant with the OGC coverage standard, CIS. Further, we will demonstrate how WCS / WCPS and SOS services can be established on such coverages, including coverage access, subsetting, visualization, and fusion. Practical examples will make use of publicly accessible WCS services powered by the rasdaman reference implementation and an SOS service. Participants can replay and modify many of these examples. Ample time will be provided for presentation and discussion of the current status in coverage standardization across OGC, ISO, and INSPIRE, including the forthcoming OGC OAPI-Coverages extension to WCS.

Altogether, this workshop constitutes a unique opportunity for getting up to speed with INSPIRE coverage data and services, and to bring along questions for clarification.

INSTRUCTIONS FOR PARTICIPANTS

Participants can join discussion and demonstrations right away. An Internet-connected laptop allows you to recapitulate examples shown.

Background information for preparation:

- OGC coverages: <http://myogc.org/go/coveragesDWG>
- Coverage educational material: <https://earthserver.eu/webinars>
- INSPIRE coverage demonstrators: <http://inspire.rasdaman.org>,
<http://service.datacove.eu>
- Background paper:
P. Baumann, J. Escriu: [*INSPIRE Coverages: An Analysis and Some Suggestions*](#).
Open Geospatial Data, Software and Standards, 4(1)2019

DETAILED WORKSHOP AGENDA

- Introduction: Coverages in INSPIRE
- The coverage data model
 - OGC / ISO coverages
 - INSPIRE coverages
 - INSPIRE Coverage schema fixes
 - encodings in GML, JSON, and other formats
- The coverage service model
 - OGC WCS/WCPS
 - INSPIRE coverage demo service
 - OAPI-Coverages
 - Coverages for WCS & SOS
- Final discussion & conclusion: How to operationalize INSPIRE coverage services?