INSPIRE Enabling access to spatio-temporal observation data in a spatial data infrastructure through SOS and O&M

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TITLE DETAILS

Workshop title: Enabling access to spatio-temporal observation data in a spatial data infrastructure through SOS and O&M

Workshop Length: two sessions (2 x 90 min.)

WORKSHOP FACILITATOR DETAILS

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WORKSHOP DESCRIPTION INCLUDING LEARNING OBJECTIVES

INSPIRE broadly addresses the harmonisation and combined use of spatial data. There are however many cases where a limited number of sensors (both stationary and mobile) produce huge volumes of spatio-temporal observation data. This requires standards which are capable of effectively encoding and serving such data. This fact is well recognized in INSPIRE, and a temporary sub-group has been established within the INSPIRE MIG (MIWP-7a) which deals with observation data.

The proposed workshop will be organized as an activity of the sub-group with the overall objective to present the results from the activities of the sub-group, together with other relevant use-cases. Structurally the workshop will be split into two sessions of 90 min. each.

The first session will be dedicated to presenting results regarding the following:

1) Updated guidance documentation

This section will cover activities of MIWP-7a, and particularly the technical editor, focusing on updates of the following technical documents:

- D2.9 “Guidance for the use of O&M in INSPIRE”
- “Technical Guidance for SOS-based download services in INSPIRE”

2) INSPIRed SOS implementations

Focus will be put on available implementations of SOS as an INSPIRE download service. The section will also explore the possibility to use SOS as download services beyond the classic GIS, but also in the context of scientific workflows.

3) SOS clients

From a user perspective, the design and implementation of client applications, which are capable of exposing spatio-temoporal data in an easy to use manner, is of critical importance. That is why this section will provide an overview of recent development of SOS clients.

The second session of the workshop will be organized in an interactive manner, and include the following:

1) Flash demos of the software implementations, already covered in the first session

2) Hands-on experience for attendees

Workshop participants are advised to bring own computers/tablets in order to take advantage of this interactive session. Internet access is a precondition for the success of the second workshop session.

DESCRIPTION OF TARGET WORKSHOP AUDIENCE

- European data providers who are handling spatio-temporal observation data;
- Experts in thematic domains which use sensor data (e.g. geology, atmospheric sciences, hydrology, oceanography, etc.);
- Developers of INSPIRE-based client/server solutions.

WORKSHOP REQUIREMENTS

AV requirements

Room setup

Instructions for participants: (laptop, pre-workshop preparation)

DETAILED WORKSHOP AGENDA [1]

[1] The agenda is tentative and is subject to change.

Session 1. (90 min)

- Introduction to workshop. Objectives (MIWP-7a)
- Tour de table (all participants)
- MIWP-7a – results in 2016
    - TG editorial work (S. Grellet, BRGM)
    - 52North SOS – Support for specialised observation types (S. Jirka, C. Hollmann, 52North)
- Implementation of server and client side solutions (flash presentations)
    - AIT SOS (Kathi Schleidt, AT)
    - SOS deployments for geoscience data : water quantity/quality, borehole logs, geothermy (S. Grellet, M.Beaufils, BRGM)
    - SOS for streamlining scientific workflows. Virtual Research Environment of LifeWatch Italy (P. Tagliolato, CNR Italy)
    - AirSensEUR – an INSPIRed sensor platform for air pollution monitoring (A. Kotsev, JRC)
    - RITMARE architecture (A. Sarretta, A. Oggioni, P. Tagliolato, S. Menegon, CNR Italy)
- Session 2. (90 min)
    - Interactive demos
    - Hands on experience