

Proposal for pre-conference workshop – AGILE 2014



Castellón, Tuesday 3 June 2014

1. Workshop name/title (and acronym is applicable)

COBWEB: Citizen Science, Quality and Standards

2. Description of the workshop by listing topic(s), objective(s) and planned outcome(s)

2.1 Topic(s)

- Opportunistic harvesting and quality control of crowd sourced environmental data
 - Using authoritative data
 - In a disconnected, intermittent connected and disconnected environment
- Use of (OGC) standards in crowdsourcing and citizen science
 - Can interoperability in crowdsourced infrastructure be achieved using existing open standards?
 - OGC GeoPackage introduction
- How to deal with the different quality aspects and how to model them
- Understanding the privacy aspects in citizen science

2.2 Objective(s)

Engage with scientific stakeholders in order to verify and adjust

Discuss and collect feedback and recommendations from the scientific community.

2.3 Planned outcome(s)

Notes and report on the recorded feedback that would be used as recommendation for the various work packages.

3. Abstract

COBWEB will leverage the UNESCO World Network of Biosphere Reserves (WNBR). Concentrating initially on the Welsh Dyfi Biosphere Reserve, we will develop a citizens' observatory framework, and then validate the work within the context of the UK National Spatial Data Infrastructure (SDI) and internationally, within the WNBR; specifically, within Greek and German Reserves. The infrastructure we develop will exploit technological developments in ubiquitous mobile devices, crowdsourcing of geographic information and the operationalizing of standards based SDI such as the UK Location Information Infrastructure. It will enable citizens living within Biosphere Reserves to collect environmental information on a range of parameters including species distribution, flooding and land cover/use. A main driver will be the opportunity to participate in environmental governance.

Data quality issues will be addressed by using networks of "people as sensors" and by analysing observations and measurements in real-time combination with authoritative models and datasets. The citizen's observatory framework will integrate with evolving INSPIRE compliant national SDIs and allow the fusion of citizen sourced data with reference data from public authorities in support of policy objectives. To maximize impact, COBWEB will work within the processes of the standards defining organisations. Specifically, we will aim to improve the usability of Sensor Web Enablement standards with mobile devices, develop widespread acceptance of the data quality measures we develop and maximize the commercial appeal of COBWEB outputs. The end result we are aiming for is a toolkit and a set of models that demonstrably works in different European countries and which is accepted as a core information system component of the WNBR. Implementations of COBWEB will act as models for how technology may be used to empower citizen associations in environmental decision making.

4. Short description of the intended length (half or full day) and the format of the workshop

From 10:00 until 16:00

Introduction to the COBWEB project and then discussion on the 4 topics (small introduction, then discuss with the scientists).

Room size: 25 people in U shape

5. Brief statement of the relevance of the workshop for AGILE

The availability of crowdsourced information in a society that is increasingly becoming more vocal and engaged is growing rapidly. Crowdsourced data is a valuable source of scientific information (next to the authoritative data) if we can enhance it with an indication of quality. This workshop seeks to engage and discuss with the science community on the use of quality controlled crowd sourced environmental data.

6. Names and e-mail addresses of the organizing member(s)

Leading AGILE member (or sponsor) and contact person:

Mike Jackson, University of Nottingham

Contributing AGILE members (including the persons involved) – at least one seconding AGILE member is needed:

Lars Bernard, Technische Universität Dresden

Contributing non-AGILE members (including the persons involved) – if applicable:

Bart De Lathouwer, OGC

Organizing Committee (if applicable): COBWEB

Programme Committee (if applicable): COBWEB

7. Additional information about previous workshops, if held.

None

8. Expected resources needed

Internet connection, projector

9. Other information

None

Submission by e-mail to: agile2014@uji.es