

COBWEB

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COBWEB Citizen Observatory Web



This project has received funding from the European Union's Seventh Programme for research, technological development and demonstration under grant agreement No 308513.

The COBWEB project

- Project started 01/11/2012 and will run for 4 years;
- Funded under the European Commission's Framework Programme 7 (Grant No: 308513).



The COBWEB project

- Crowd sourced environmental data
- Introduce quality measures and reduce uncertainty
- Fusion of crowd sourced data with reference data...
- Spatial Data Infrastructure - like initiatives



GROUP ON
EARTH OBSERVATIONS

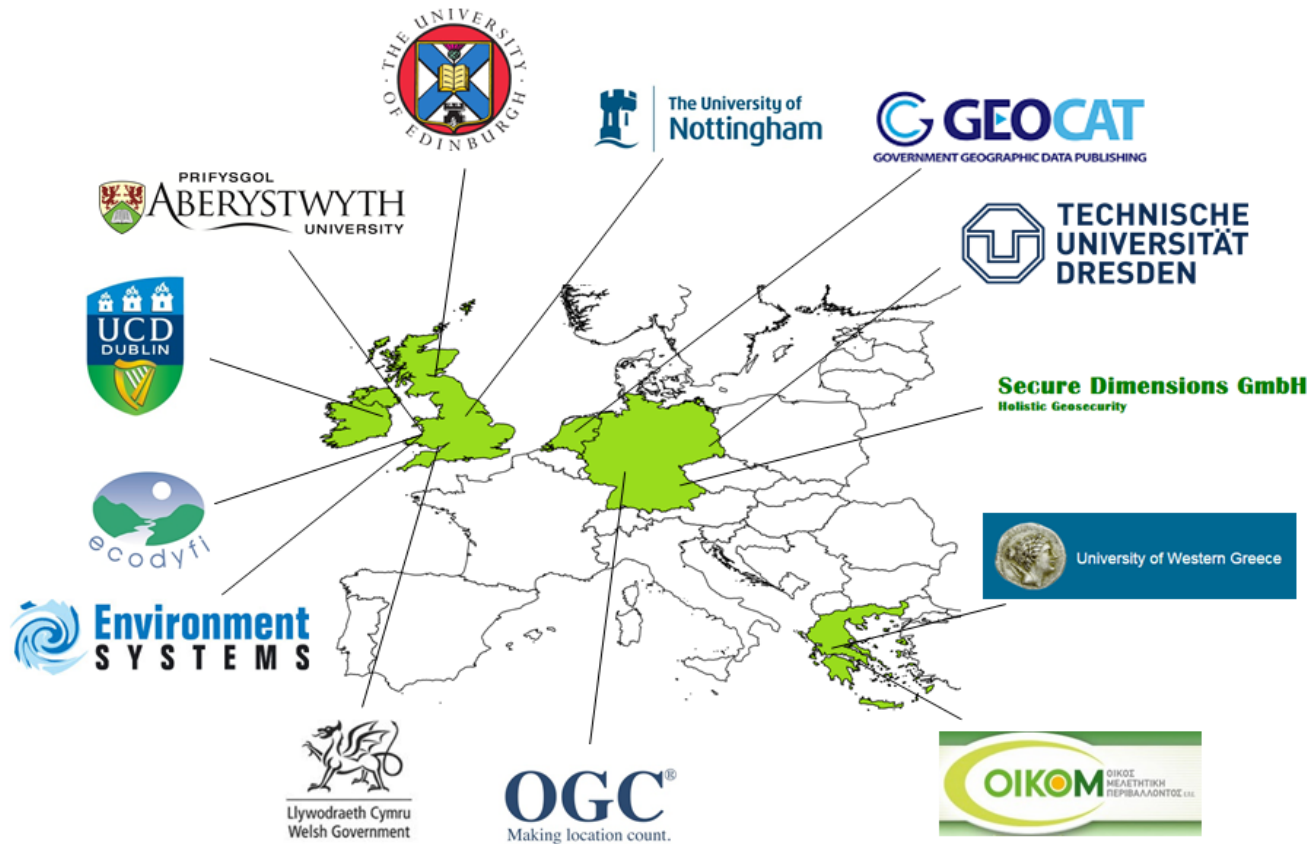


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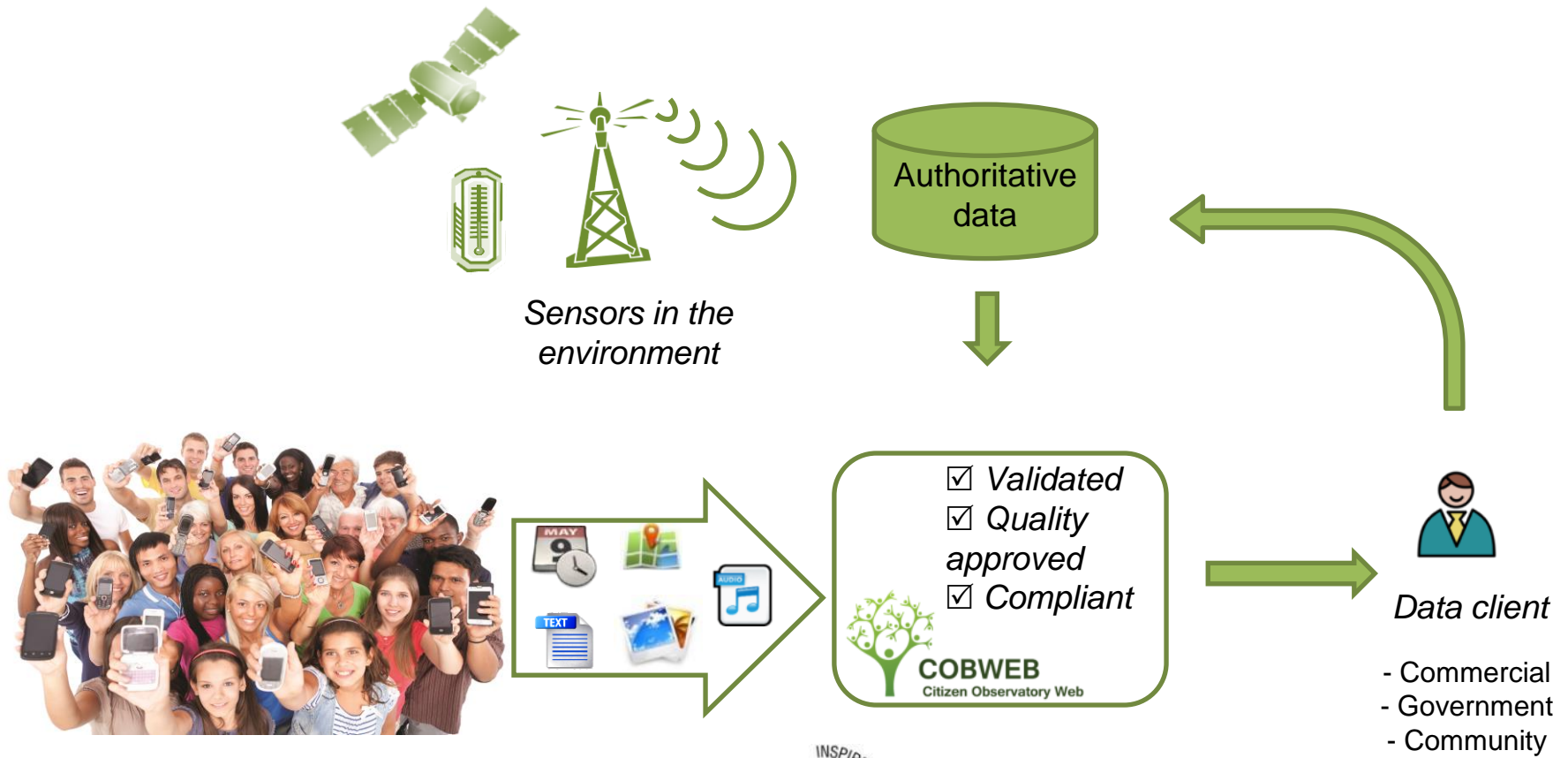
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COBWEB's Obligations

- COBWEB is obliged to work within GEOSS framework;
 - common methodologies and standards for data archiving, discovery and access.
- “Data collected should be made available through the GEOSS without any restrictions”.



Conceptually, what is COBWEB?



The crowd



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Study areas

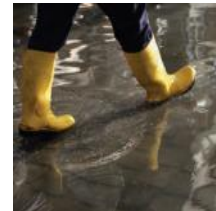
COBWEB is creating a platform to enable citizens within UNESCO Biosphere Reserves to collect environmental data using mobile devices.

These UNESCO World Network of Biosphere Reserves including those in Dyfi (Wales); Samaria, Mount Olympus (Greece); and Wadden Sea and Islands of Schleswig-Holstein (Germany).



Demonstrators

- A number of demonstrator applications for mobile devices.
- Three subject areas:
 1. Validating Earth observation;
 2. Biological monitoring;
 3. Flooding.



Dyfi Biosphere Co-design

Current co-design work is concentrated in the Dyfi Biosphere Reserve in Mid-Wales.

COBWEB is currently engaging with 7 local citizen groups who are based or are active in the Biosphere Reserve.



Citizen Group Engagement

Dyfi Woodlands



Local enterprise providing outdoors activities and education to promote sustainable land use and sustainable living.

Ysgol Bro Ddyfi(Hyddgen)



Local primary and secondary school. COBWEB is engaging with pupils and teachers to promote use of the software as a teaching tool in mainstream education.

Citizen Group Engagement

Cardigan Wildlife Marine Research Centre



Research Centre based in New Quay monitoring and studying marine wildlife in Cardigan Bay. Exploring use of COBWEB in the marine environment.

Penparcau Community Forum



Community Group managing local development initiatives and organising activities in the Penparcau neighbourhood. The Forum are planning nature walks to observe biodiversity in the area using COBWEB.



Citizen Group Engagement

RSPB Ynys-Hir



RSPB Nature Reserve within the Dyfi Biosphere Reserve. The RSPB will be working with citizens to observe and record birds using COBWEB software.

Outward Bound Aberdovey



Educational charity for young people with the aim of encouraging personal development and improving skills through outdoor activities.

Citizen Group Engagement

Snowdonia National Park Authority



Managing Body of Snowdonia National Park. Working with COBWEB to collect information on invasive Japanese Knotweed in the National Park.



Bottom up approach to design

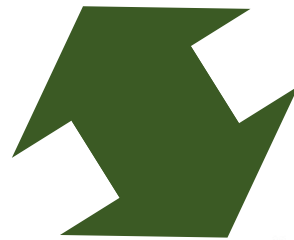
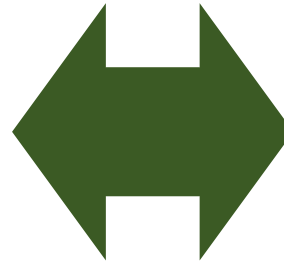
- Co-design will drive the user requirements.



- How is this built upon?

Feedback mechanism

Co-design allows us to get real world feedback.



Feedback On What?



- Mobile apps;
- Web pages;
- ...anywhere that you can interact with the COBWEB systems.



Thank you

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