

HUMBOLDT Application Scenario Atmosphere

– Factsheet –

Global perspective:

- Added value for other LBS by integrating and harmonizing atmospheric information*
- Support initiatives for informing the public on ambient air quality*
- Promote use of atmospheric data*
- Support integration of sensor data using standards*

Benefit:

- Create awareness towards the status of air quality in different locations*
- Improve citizens' participation in reporting cases of declining air quality in given locations/regions*

Particularities and relation to GMES/INSPIRE:

Provision of harmonized atmospheric data adapted to user context in a mobile environment

Use cases:

- 1) Air Quality data provision to mobile users*
- 2) Health risk notification*
- 3) Data update service*

Stakeholders involved:

- Health workers*
- Environmental agencies*
- The general public*

Target audience:

- General public*
- Tourists*

Data involved:

Ozone, Carbon monoxide, Nitrogen dioxide, Particulate matter, Sulfur dioxide, Temperature, Wind, Humidity

Spatial coverage:

Currently covers whole EU countries providing air quality data to the European Environmental Agency (EEA)

Major harmonisation issues:

Different data format, different measurement units, language differences, categorization differences, different data models

System architecture of selected use case “Information Exchange”:

Existing software components:

Mobile web frontend (client)

TEAQuILA Service (LBS service)

SMOG Service: Surface model generator (an interpolation service)

DERMS: Data retrieval and storage service

HUMBOLDT components:

Mediator Service: for data retrieval and harmonization

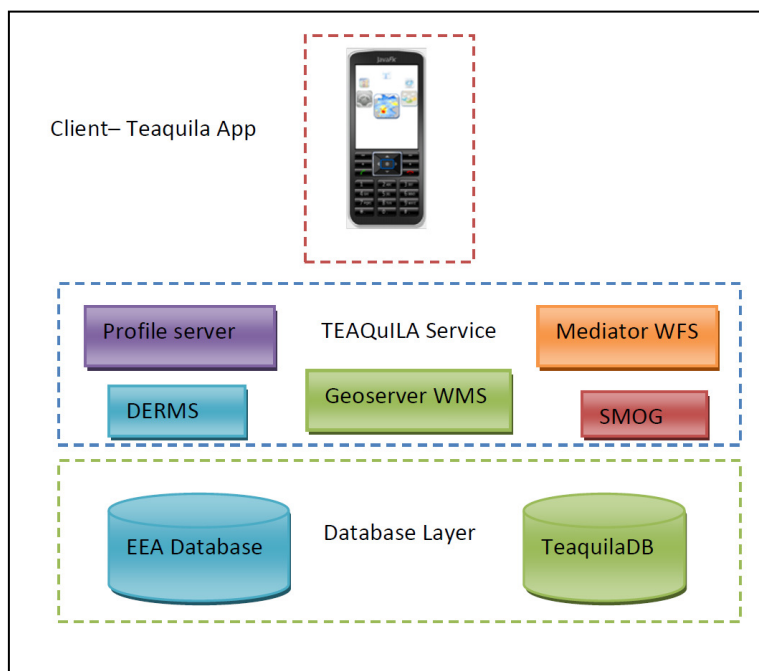
Workflow Design and Construction Service: for defining data processing workflows

Interpolation Service (Surface Model Generator –developed in the scenario)

Scenario Demonstrator will be available:

End of June 2010

**For more information please visit our Project Website www.esdi-humboldt.eu
and our Community Website <http://community.esdi-humboldt.eu>.**



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