

HUMBOLDT Application Scenario Border Security

– Factsheet –

Global perspective:

Supporting border police and other authorities on the borders of Europe

Benefit:

- Fast availability of topographic data for Command & Control Centres using web services (fast and secure data access).*
- Harmonisation of crisis event information (place, time, type of event etc.) with spatial data.*
- Supporting crisis event information exchange between the EU countries.*

Relation to GMES/INSPIRE:

HUMBOLDT demonstrator for data harmonisation in the „Security“ GMES domain

Particularities:

Use of highly sensitive data, real-time sensor input processing, high availability of large-scale geodata from trans-border sources

Use cases:

- | | |
|---------------------------------------|------------------------------|
| 1) <i>Topographic Data Management</i> | 4) <i>Strategic Analysis</i> |
| 2) <i>Human Intrusion</i> | 5) <i>Strategic Planning</i> |
| 3) <i>High Level Management</i> | |

Stakeholders involved:

Ministry of Interior of the Slovak Republic

Target audience:

- Crisis and risk managers*
- Police units*

Data involved:

Transport networks (road, railway), Hydrography (watercourse and standing water), Administrative boundaries, Geographical names, Land cover, Orthophotos, Topographic maps, In-situ data (position, equipment of the patrol units, number of unit members etc.)

– Large scale application

Spatial coverage:

Border between Austria and Hungary

Major harmonisation issues:

Data formats, Spatial reference systems, Terminology / vocabulary, Scale / resolution, Portrayal, Multilinguality, Consistency

System architecture:

Existing software components:

Intergraph Geomedia environment and web-enabled solutions

HUMBOLDT components:

Conceptual Schema Transformer: to carry out schema transformation

Mediator Service: for interaction of the BS client and the HUMBOLDT Framework services

Context Service: for management of user profiles and their harmonisation requirements

Language Transformer: to translate specific textual attributes

Coordinate Transformation Service: transform data between different national reference systems

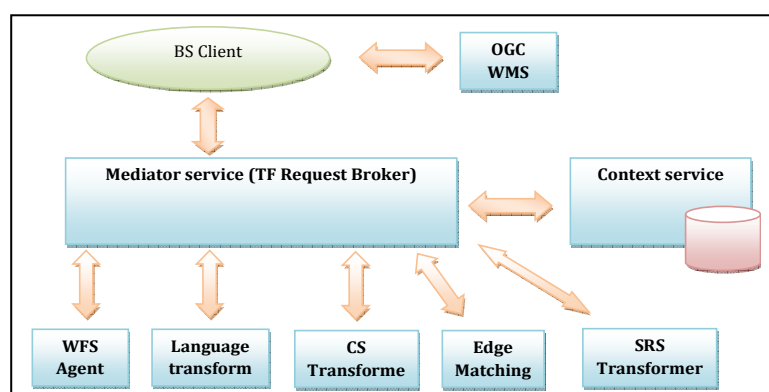
Edge Matching Service and/or Multiple Representation Merger: to geometrically match datasets arriving from the National Mapping Agencies on the border

Scenario Demonstrator will be available:

First version – end of May 2010

Final version – 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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