Information about the EU-Project HUMBOLDT
HUMBOLDT: Main Goals of the project

HUMBOLDT fosters the harmonization of spatial information in Europe and supports the development of an eSDI
HUMBOLDT – Overall Goal

Trans-sectoral use of information

Approaches:
- Consistent modelling
- Domain GDIs
- SOA principle
HUMBOLDT – Access to and Re-Use of Data

Formulation of the demand

Demand-oriented information

Application Domain I

Application Domain II

Application Domain III

HUMBOLDT Mediator

GDI Domain m
HUMBOLDT is a project driven by its applications, especially those from the GMES area. This is reflected in the project’s application scenarios.
HUMBOLDT is at the same time a research project with innovative concepts, built on standardization and best practices already available.
Let's have a look at a simplified scenario to see how HUMBOLDT will help geoinformation producers and consumers.
Paul … is an Urban Planner tasked with the creation of zoning plans for his municipality.
… is an **Urban Planner** tasked with the creation of zoning plans for his municipality.

For this, he needs to find and integrate many types of geo-information, such as:

- Create Zoning Plan
- Find suitable data
- Manually import data
- Cadastre
- Roads
- Pollution
Paul... is an **Urban Planner** tasked with the creation of zoning plans for his municipality.

For this, he needs to find and integrate many types of geo-information, such as:

- Create Zoning Plan
- Find suitable data
- Manually import data
- Check flooding

He also needs to factor in information from water management, but has no knowledge of the specific technical terms they use.
Paul … is an **Urban Planner** tasked with the creation of zoning plans for his municipality.

For this, he needs to find and integrate **many types of geo-information**, such as:

- Cadastre
- Roads
- Pollution
- Water Mngmnt.

He also needs to factor in information from water management, but has no knowledge of the specific technical terms they use.

All in all, he has to do a lot of work to get up-to-date geoinformation and to handle integration issues.
Jeanette … is an Environment Engineer tasked with allowing Paul an efficient and easy access to the SDI.
Jeanette … is an Environment Engineer tasked with allowing Paul an efficient and easy access to the SDI. She is using HUMBOLDT software to create descriptions of how these domains relate to each other and to publish these descriptions.
Paul can therefore use the terms from his profession and automatically benefit from all data available.

Jeanette … is an Environment Engineer tasked with allowing Paul an efficient and easy access to the SDI.

She is using HUMBOLDT software to create descriptions how these domains relate to each other and to publish these descriptions.
In this way, information needs to be maintained just once and is opened up to many new uses.

Paul can therefore use the terms from his profession and automatically benefit from all data available.

Jeanette ... is an Environment Engineer tasked with allowing Paul an efficient and easy access to the SDI.

She is using HUMBOLDT software to create descriptions how these domains relate to each other and to publish these descriptions.
To realize this, HUMBOLDT provides different kinds of interaction possibilities to users and client systems…
…as well as several services that enable geoinformation user to harmonize data available in the SDI to their needs.
HUMBOLDT – Results (selected)

“HUMBOLDT Open Source Framework“
- Collection of tools, components, and concepts for harmonisation and use of spatial data

“HUMBOLDT Applications“
- Scenarios the HUMBOLDT framework will be used in

“HUMBOLDT Developer Community“
- Formation of a developer community for the advancement of the HUMBOLDT framework

“HUMBOLDT User Community”
- Formation of a community of end users using HUMBOLDT-based applications

Contributions to standards

Contributions to the development of the market for geoinformation
**HUMBOLDT – Facts**

<table>
<thead>
<tr>
<th>Full title</th>
<th>Development of a framework for data harmonisation and service integration</th>
</tr>
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<tbody>
<tr>
<td>Term</td>
<td>48 months</td>
</tr>
<tr>
<td></td>
<td>01/10/2006 – 30/09/2010</td>
</tr>
<tr>
<td>Effort</td>
<td>~ 13.5 mill. €</td>
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<td></td>
<td>~ 110 person years</td>
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<td>Contracting authority</td>
<td>Commission of the European Community</td>
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<td>FP6 – Aeronautics and Space (GMES)</td>
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<td>Consortium</td>
<td>27 partners (coordinator Fraunhofer IGD)</td>
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HUMBOLDT Partners

Coordinator: Fraunhofer IGD

Partners:
- ETRA (ES), HSRS (CZ), Logica
- CMG (UK), IGN (F), Intergraph (CZ), ETH Zürich (CH), TU Delft (NL), Uni Rome (I), FÖMI (H), MARIS (NL), KTC (Lit), INI-GraphicsNet (D), IFREMER (F), NERC/BODC (UK), HCMR (G), SMHI (S), UWE (UK), Telespazio (I), GISIG (I), RT-GIS (D), CNR-IREA (I), FMI (CZ), IGP (P), CLS (F), HiG (S), Promiteas (Cyp)
Many Thanks

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