

Prototypical transformation of spatial data

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Organisation: State Agency for Spatial Information and Rural Development

Country: Germany

Level of government: Regional/State government

Sector: General public services

Type: Data, Digital

Launched in: 2010

Link to the innovation's website

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Description

Administration, science, the economy and also society require increasingly unified and cross-border spatial data that are currently only available in national data models and different coordinate systems. It is here that the European idea targets an unified spatial data infrastructure called Infrastructure for Spatial Information in the European Community (INSPIRE) regulating the provision and the exchange of different spatial data considering the usage of modern information and communication technology.

The innovative project "Prototypical transformation of spatial data in the cross-border region of Lake Constance according to INSPIRE" targets to allocate the national geo-data of the German Federal States Baden-Württemberg and Bavaria as well as of Austria and Switzerland to cross-border and uniform data models.

Why the innovation was developed

Response to external changes (policy change, changes in laws and regulation).

Objectives

Improve access, Improve efficiency

- To improve the efficiency for all users because data can be used uniformly.
 - To improve the availability of these data is the basis for all cross-border social relevant planning and optimisation (urban and regional planning, transport planning and utilisation of resources).
 - To promote and facilitate the development of cross-border applications (e. g. a common App).
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Main beneficiaries

Businesses, Government bodies, Government staff

The joint cross-border transformation of many spatial and thematic data improves the efficiency for all users because all data can be used uniformly.

Results

Efficiency

The joint cross-border transformation of many spatial and thematic data improves the efficiency for all users of geo-data because all data can be used uniformly.

Service quality

Accessibility:

The joint cross-border transformation of many spatial and thematic data improves the accessibility for all users of geo-data because all data can be used uniformly.

Development

Design

The idea for the innovation was developed by the surveying authorities of the German Federal States Baden-Württemberg (LGL) and Bavaria (LVG) as well as of Austria (BEV) and Switzerland (swisstopo) along with the Runder Tisch GIS e.V. Munich, an association dealing with geo-information that brings together agencies, private firms and science.

Testing

The prototypical transformation of spatial data to INSPIRE was based on a multi-phase approach:

- In stage one the Technical University of Munich (TUM) examined the scientific basis for the transformation of spatial data.
 - In stage two a file-based transformation - based on today's available tools - transferred geo-data from the national data pools into the European INSPIRE data models.
 - In stage three the technical feasibility of an innovative model-based transformation approach was examined in order to charge and to provide an implementation of an appropriate test environment by the company AED-Sicad.
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Partnerships

Runder Tisch GIS e.V.

Other

Cross-border networking of the surveying authorities around the Lake Constance together with the Runder Tisch GIS e.V. , an association dealing with geo-information that brings together agencies, private firms and science.

Lessons Learned

Other information

For those particularly interested in seeing how the "Prototypical transformation of spatial data in the cross-border region of Lake Constance according to INSPIRE" works, a test access can be awarded (must be registered but free of costs) at:

http://129.187.38.200:8080/ASWeb38/ASC_URM/portallogin.jsp

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