



**The Spatial Development Concept of
Interregional Co-operation in the Danube Space
SEE EoI/A/246/4.2/X**

**WP1
Transnational project
management and coordination**

**WP3 – Project data and GIS development
methodology**

Information support of the project

The overall scheme of Donauregionen+ project includes information system as well.

The information system consists of following parts:

- Metainformation system accessible through internet
- Geographic information system as a support of development of the project Donauregionen+
- Internet GIS portal on the basis of ArcGIS server
- Web page of the project Donauregionen+

Metainformation system

This part follows metainformation system Donau Datenkatalog developed within Interreg IIIB project CADSES Donauregionen, led by Bayerisches Staatsministerium für Umwelt, operating on its server in München.

Since the Bavarian partner will be not participating at new phase of project, it is necessary to:

- Create metainformation system, compatible with Donau Datenkatalog operated by ERDF PP1 at his server in Slovak Republic.
- Transfer all relevant records from Donau Datenkatalog into newly created metainformation system.
- Update transferred data from Donau Datenkatalog
- Continuously fill up the newly created database by new data from Donauregionen+ project, in form of metainformation about documents, conceptions, studies, etc.

The metainformation system will be directly accessible through internet (reading and recording) for all partners of Donauregionen+ project. For the rest of clients, it will be accessible only for reading.

Geographic information system as a support of Donauregionen+ project development

Besides the descriptive and table outputs, the Donauregionen+ project outputs will include also maps and schemes covering whole area of relevant territories along the Danube. In previous project, a number of geographic data were created, including basic general data as: regional division, settlements, forests, rivers and lakes, railway and road network. By adding further features, the thematic maps of general schemes displaying natural conditions, human resources and settlement structure, transport, technical infrastructure and economy, have been created.

The data were processed by systems ArcView GIS and ArcGIS Desktop by ESRI.

The scope, exactness and content of the geographic data were at very different level.

The differences were caused by ability of partners to obtain the relevant data from particular institutions in their countries. The different quality of data was influenced also by the different level of respecting and following the recommended methods of creating the geographic data by the partners.

The task of geographic information system within Donauregionen+ project will be to obtain and complete existing graphic data for particular general schemes from all

project partners, their processing into consistent geodatabase, updating and potential completing. Moreover, compiling particular graphic data of relevant areas from new project partners (Croatia, Moldavia and Ukraine), their modification and adding to existing data. Transferring of the existing geographic data from ArcView GIS into consistent platform ArcGIS Desktop, where geographic data for elaboration of the project outputs will be saved. Ensuring the topological control and correction of new geographic data is also necessary in order to transfer into platform ArcGIS. All geographic data will be distributed in coordinate system WGS-1984, ETRF-1989 or in local coordinate system of particular country with projective file enabling "on the fly" projection into WGS-1984 system.

Supported vector formats:

ESRI Shapefile

ESRI Personal geodatabase

ESRI File geodatabase

ESRI PC ArcInfo coverage

ESRI ArcInfo coverage

Preferred format of vector data: ESRI Personal Geodatabase

All attributes of geographic data will be processed in code page Windows 1250 (CEE) and/or 1251 (Cyrilic). Local names will be processed in English and transcribed into CEE.

Internet GIS portal on a basis of ArcGIS server

Except the access to metainformation, the direct access to geographic data will be also enabled in Donauregionen+ project. Internet GIS portal on a basis of ESRI ArcGIS server will be created for accession of the maps and GIS services through web applications. Server for GIS includes hardware facilities and program system ArcGIS Server by ESRI. The data from geographic information system for support of processing Donauregionen+ project, will be saved into server throughout installation. Map services will be accessible via internet through Web application by internet browser or through freely accessible applications ArcReader or ArcGIS Explorer. Geographic data on server will be administrated centrally through ArcGIS Desktop ArcEditor and for internet users will be accessible only for reading.

Donauregionen+ project WEB page

Project WEB page will be created and administered by ERDF PP1. There will be links on the other important WEB pages (project partners, related projects, relevant Danube regions etc.), administration of the project, partial project outputs and other supporting tools (e.g. discussion forums etc.).