

Case Study

A National and Regional Development And Spatial Planning Information System (TeiR)

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History of the information system

The TeiR project was first launched in 1995 at the assignment to the Regional Development Office of the Ministry of Transport and Regional Development.

As the basic principles were being finalised, two pieces of legislation were passed. The first was Act XXI of 1996 on Regional development, the second Government Order 112/1997. (VI. 27.) on the Information system related to regional development and regional spatial planning and on the procedure of compulsory provision of information. These two statutory provisions have created the legislative background for the activities in question.

The system started work in 1998 on an Intranet system. In 1999 the upgraded versions of the individual applications were prepared. As a result of the improvements, the Interactive Analytical application supporting the complex analyses was created, where after the database was integrated into the ORACLE system to eventually yield the TeiR data base ensuring fully uniform and safe handling of data.

The history of the data base

The growth of the data stored in the information system is continuously expanding and at the current time holds approx. 50 000 settlements. The on-going improvement of the services is the pledge of the permanently rising standards of TEIR in both content and quality terms.

Access to the information system

Access to the system is ensured, pursuant to Government Order 112/1997. (VI. 27.) on the Information system related to regional development and regional spatial planning and on the procedure of compulsory provision of information, for central and local governmental agencies involved in regional development and spatial planning. The agencies have direct access to the network via terminals that enable the full functionality of the information system to be utilised.

The information system has a public Internet version accessible for anyone at <http://teir.vati.hu> . This public version displays the full metadata content and the public information held by the system.

The following is the list of agencies already connected to the system:

1. The Prime Minister's Office
2. Ministry of Agriculture and Rural Development
3. Ministry of Environment and Water Management
4. Ministry of Economic Affairs and Transport
5. Ministry of Finance
6. Ministry of Foreign Affairs
7. Office of the National Assembly, Regional Development Committee
8. Central Statistical Office
9. State Audit Office
10. Regional Development Councils and Agencies
11. County Local Government Offices
12. County Development Councils and Agencies
13. Regional Chief Architect's Offices

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The received and processed data grouped according to type.

General and branch level databases

- Agricultural development subsidy information 1996-2002
- CSO Census data 1970, 1980, 1990, 2001
- CSO Local statistical data system (TSTAR) 1990-2002
- Unemployment statistics in quarterly breakdown 1993-2003
- Personal income tax data 1992-2002
- Regional Development Fund application and contract data 1995-2002
- TÁKISZ (local government investment and balance sheet) data 1991-2002
- Corporation tax return priority data 1991-2001

GIS databases

a) BASIC MAPS

- Digital Topographical Base Map M=1:50000 (DTA50: MH-TÉHI) – supplemented by the data of the track line facilities in suburban areas
- National regional database M=1:100000 (OTAB1:Infograph Kft)
- Corine Landcover (FÖMI)
- Agrotopography (MTA-TAKI)
- Protected areas (Nature Preservation Office)
- Forestry database (Ministry of Agriculture, Forest Management service)

Narrative documents

Some examples for narrative documents available on the new service of the TEIR: on the portal TERPORT (www.vati.hu) that is the forum of the regional an rural development, information on the spatial planning, heritage and monument reserve is available.

Cartograms

The services provided through the system, include the use of pre-designed statistical maps that provide the user with fast information concerning a variety of social and economic processes. With the help of the cartograms these processes may be followed continuously year by year.

The services of TeIR

GIS accesses

GIS accesses are applications ensuring a high level of freedom for the user to retrieve maps and descriptive data. Users may handle maps in the usual way known from graphic software. The user may turn the coverage's on and off, change the view of the maps for example by (zooming in (blow-up), zooming out (scale-down) and panning (move). The application provides the opportunity of a variety of logical filters on the basis of geometrical and attribute data of map elements. It will also support the generation of complex analyses. The filterings or analyses according to selected criteria are possible through a given set of logical operations.

The base map of the information system is the Digital Topographical Base Map (scale: 1:50 000), which is supplemented by the 1:100 000 GIS database of the National Spatial Database. In addition to the base map, a large number of thematic maps are retrievable on a GIS basis.

Interactive Analytical Application

From the processed databases the system enables the generation of complex analyses. The user may receive the result of the analyses that they have produced in any of three different formats. The user may wish to prepare diagrams, cartograms, or reports (in the latter case the result may be a text file, an Excel table, or a HTML table).

The analyses may be prepared by specifying mathematical expressions. The system provides a high level of freedom when preparing individual and complex analyses.

Users are helped by optional, frequently used functions performing the merging of data necessary when inputting the required groupings.

