

An invitation to participate the final workshop on October 21-22, 2004 at the Majvik Congress Hotel in Masala, Finland



Finnish Geodetic Institute, University of Hannover,
Federal Agency for Cartography and Geodesy, National Survey and Cadastre- Denmark,
National Land Survey of Sweden, National Land Survey of Finland

GiMoDig Workshop

Geospatial info-mobility service by real-time data-integration and generalisation

The GiMoDig project (EC/IST-2000-30090) started in November 2001 and is now in its final phase, ending at the end of December 2004. The objectives of the project are to develop and test methods for delivering geospatial data to a mobile user by means of real-time data-integration and generalisation, and also to create a prototype of a seamless data service providing access, through a common access interface, to the primary topographic databases maintained by the National Mapping Agencies. The overall purpose of the workshop is to present the results of the GiMoDig project, but also related presentations beyond the GiMoDig will be given.

The workshop will be arranged at the Majvik Congress Hotel in Masala, Finland, just a short walk from the Finnish Geodetic institute (FGI). For over night guests rooms have been reserved at the Majvik hotel. Majvik Congress Hotel is located in Masala, 25 kilometres from the centre of Helsinki, on the Ring Road III. Address: Majvik Congress hotel, Masala, FIN- 02401 Kirkkonummi, Finland, Tel: +358-9-295 511, <http://www.majvik.fi/>

You are invited to send your application for participation and dates for your hotel room reservation by email to Ms. Kirsti Filen, at the Finnish Geodetic Institute, email: Kirsti.Filen@fgi.fi. The registration form is available at the GiMoDig web-pages, <http://gimodig.fgi.fi/news.php>. The number of the workshop participants is limited to 80 people. For other requests, please contact the GiMoDig coordinator, Prof. Tapani Sarjakoski, email: Tapani.Sarjakoski@fgi.fi. Address: Finnish Geodetic Institute, Geodeetinrinne 2, FIN- 02431 Masala, FINLAND, Tel: +358-9-295 550, Fax: +358-9-295 55 200, <http://www.fgi.fi>

Programme



Thursday, October 21, 2004

18:30 Welcome reception at the Finnish Geodetic Institute, FGI

20:30 End

Friday, October 22, 2004

08:30 Registration at the Majvik hotel

09:00 Opening of the GiMoDig Workshop, Lecture hall 2

Risto Kuittinen, Director General, FGI, Finnish Geodetic Institute

09:10 Overview of the GiMoDig project

Tapani Sarjakoski, GiMoDig Coordinator, Prof., FGI, Finnish Geodetic Institute

The GiMoDig project started in November 2001 and is now in its final phase. The initial objectives and the final results of the project will be reviewed.

09:30 The GiMoDig system architecture and system prototype

Lassi Lehto, Lic.Sc.(Tech.), FGI, Finnish Geodetic Institute

The open system architecture designed in the GiMoDig project consists of five distinct service layers. A service prototype was implemented to demonstrate the variety of services that can be provided with the adopted standards-based approach.

09:50 The GiMoDig Global Schema

Sabine Afflerbach, Dipl.-Ing., BKG, Federal Agency for Cartography and Geodesy, Germany

In the GiMoDig project a semantic model that provides an umbrella over the national core topographic databases has been defined.

10:10 Coffee break

10:30 Real-time generalisation - options and realizations

Monika Sester, Prof., University of Hannover/ ikg, Germany

For small display visualisation there is a need for real-time zooming in and out, i.e. real-time generalisation. Algorithms for on-line and off-line generalisation are presented.

10:50 Generation and use of multiple representations of geodata

Mark Hampe, PhD Student, University of Hannover/ ikg, Germany

Setting up different representations of spatial data stored in a database and the use in the GiMoDig to support real time-generalisation processes and visualisation is presented.

11:10 Real-time visualisation methods

Lars Harrie, Dr., Lantmäteriet, National Land Survey of Sweden/ Lund University

A geospatial service requires real-time methods for generalisation and integration of data. Some methods for variable-scale visualisation, geometric generalisation and icon/text labelling are presented.

11:30 Lunch

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Information Society
Technologies



IST-2000-30090

Friday, October 22, 2004

12:30 Poster presentations

- Integration of route data in real-time, Hanna Stigmar
- Lantmäteriet, National Land Survey of Sweden/ Lund University
 - Landmark-based navigation for small mobile devices, Birgit Elias
 - University of Hannover/ ikg, Germany
- Schema translations by XSLT for GML-encoded geospatial data in
- heterogeneous Web-service environment, Lassi Lehto and
 - Tapani Sarjakoski, Finnish Geodetic Institute
- The GiMoDig Global Schema, Sabine Afflerbach
- BKG, Federal Agency for Cartography and Geodesy, Germany
- The GiMoDig Icon Library, Annu-Maaria Nivala and Tiina Sarjakoski
- Finnish Geodetic Institute
- Generation and use of multiple resolution data sets, Mark Hampe
- University of Hannover/ ikg, Germany
- Small-display cartography, Flemming Nissen, Anders Hvas,
- Jørgen Münster-Swendsen and Lars Brodersen
 - KMS, National Survey and Cadastre - Denmark
- Building generalisation for smaller scales and displacement
- Monika Sester, University of Hannover/ ikg, Germany

13:00 User-centered design in the GiMoDig, Lecture hall 2

Annu-Maaria Nivala, Research Scientist, Finnish Geodetic Institute

User-centered design in the GiMoDig started by analysing the user requirements in the beginning of the project, and continued by setting up the usability goals. The usability evaluation against the usability goals continued over the project's lifespan.

13:20 The GiMoDig graphical user interfaces and a demo of user applications

Tiina Sarjakoski, Dr. and Tommi Koivula, Research Assistant, Mikko Hämäläinen, Research Assistant, Jaakko Kähkönen, Research Scientist, Finnish Geodetic Institute

The GiMoDig service delivers adaptive mobile maps for different users in different usage situations. The implementation principles behind the graphical user interfaces are explained and demonstrated in the Web and for PDA GUIs.

13:50 On the use of adaption concepts in mobile cartography

Tumasch Reichenbacher, Dr., TU Munich, Germany

The adaptation of map visualisation to the usage context of mobile users is an example of service personalisation that is also investigated in the GiMoDig project.

14:10 Connections between the GiMoDig and EuroRoads

Ulf Sandgren, International coordinator, EuroRoadS Project Manager, Lantmäteriet, National Land Survey of Sweden

Based on identified user requirements and business analysis the EuroRoadS project will develop a specification framework for core road information and test its usability through demonstrations. The experiences from GiMoDig will be of great importance for the establishment of the demonstrator.

14:30 Coffee break

Poster presentations and demonstrations continue during the break.

15:10 Global Schema perspectives beyond the GiMoDig

Andreas Illert, Dr.-Ing., Head of Group on Development of GI products, BKG, Federal Agency for Cartography and Geodesy, Germany

The harmonisation methods from the GiMoDig will be developed further in the Euro-Geographics projects EuroRegionalMap, EuroGlobalMap, EuroSpec and RISE, preparing the implementation of INSPIRE and the emerging European Spatial Data Infrastructure.

15:30 The experiences and visions on the GiMoDig at the National Land Survey of Finland

Reino Ruotsalainen, Chief Engineer, National Land Survey of Finland

The most interesting experiences on the project are highlighted. The GiMoDig has acted as a useful pilot example, about how the same service concepts can be utilized when designing the network services of the NLS.

15:50 The experiences and visions on the GiMoDig at the National Survey and Cadastre - Denmark, KMS

Flemming Nissen, Assistant Manager, IT-Department, KMS, National Survey and Cadastre - Denmark

The Danish NMA wraps up some of the lessons learnt when finishing the GiMoDig-project. The presentation will focus on the GiMoDig influence on the KMS and the GI-community in general.

16:10 Closing of the workshop

Tapani Sarjakoski, GiMoDig Coordinator, Prof., Finnish Geodetic Institute

16:30 End