

# SPATIAL INFORMATION MANAGEMENT (SIM) FOR BERLIN URBAN TRANSPORT SYSTEM

*Martin SCHEU and Detlef ROSENBAUM, Germany*

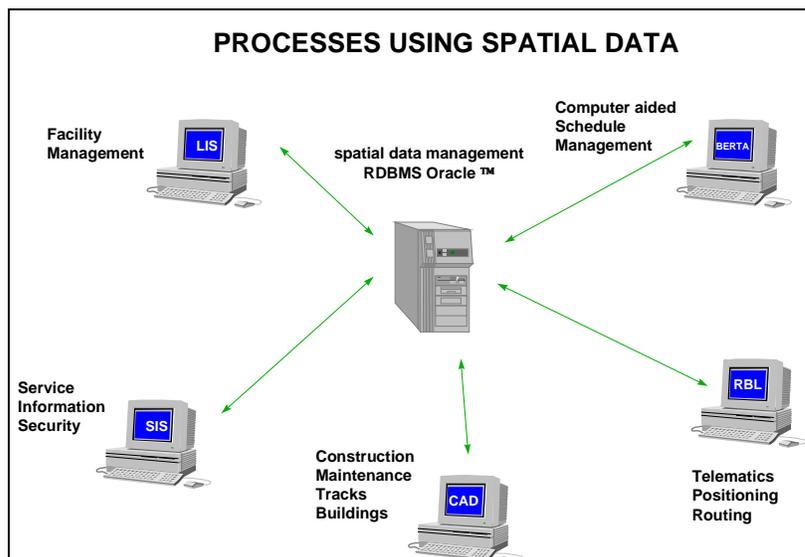
*Geo - referenced data are generated in various GIS - applications within the BVG. Harmonising and combining of this data is necessary to increase their value and to support certain business cases. BVG SIM uses internet-technology and relational database management systems for visualisation and distribution.*

## **BVG – THE LARGEST GERMAN LOCAL PUBLIC TRANSPORT COMPANY**

The Berlin Transport Authority (BVG) is the largest municipal public transport system in Germany. The BVG transport system consists of underground lines, tram routes and bus routes. The BVG supports public transport for more than 3,3 Mio inhabitants in the area of Berlin and Brandenburg and spreads over 1000 km<sup>2</sup>.

The customer-oriented company concept of the BVG concentrates on providing extensive service, cleanliness and safety. The 14.500 employees of the BVG endeavour every day to ensure that passengers arrive at their destinations on time and in a comfortable manner.

## **BVG – PROCESSES USING SPATIAL DATA**

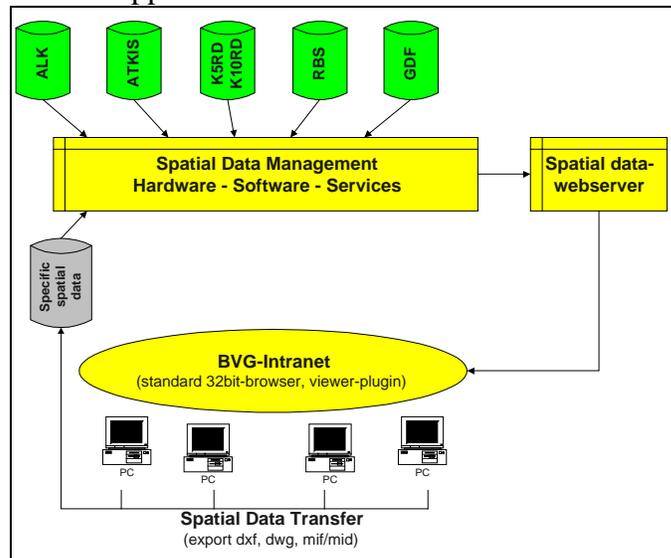


Various BVG-processes generate certain spatial data, which are important for the entire company. One of the main tasks is the harmonisation of these different GIS-applications. Harmonising and combining different spatial data sources, supported by modern internet/intranet -technologies, offers process acceleration.

The BVG-GIS-project started in 1997 analysing all existing GIS-applications and data sources. Since 1998 first implementation steps using relational database (RDBMS) and web technologies have been carried out.

## **BVG SIM STRATEGY**

The BVG IT-network includes nearly 3000 PC-clients. A company intranet supporting WWW-services has already been established. Using this existing IT-infrastructure, investment for GIS-implementation and data distribution will be minimised. Also costs for training and information distribution are reduced because BVG staff are used to intranet-applications.



## **CONCLUSIONS**

BVG GIS implementation is divided into three steps. Establishing of intranet GIS and basic data distribution is finished. Integration of asset data takes place in different departments. One of the main tasks for the future is to ensure the topicality of spatial data.

## **CONTACT**

Dr.-Ing. Martin Scheu  
Lecturer in GIS  
Technical University Berlin  
SEK H20  
D-10623  
Berlin  
GERMANY  
Tel. + 49 30 314 23315  
Fax + 49 30 314 21119  
E-mail: [scheu@inge3.bv.tu-berlin.de](mailto:scheu@inge3.bv.tu-berlin.de)

Dipl.-Ing (FH) Detlef Rosenbaum  
Teamleader GIS  
Berliner Verkehrsbetriebe (BVG)  
IPLZ 60110  
D-10773 Berlin  
GERMANY  
Tel. + 49 30 256 28054  
Fax + 49 30 256 28057  
E-mail [Detlef.Rosenbaum@BVG.de](mailto:Detlef.Rosenbaum@BVG.de)