

Symposium on Land Administration in Post Conflict Areas

Geneva, April 28 – 29, 2004



**Republic Geodetic Authority
Belgrade
Republic Of Serbia
Serbia and Montenegro**

Land Administration In Post Conflict Serbia

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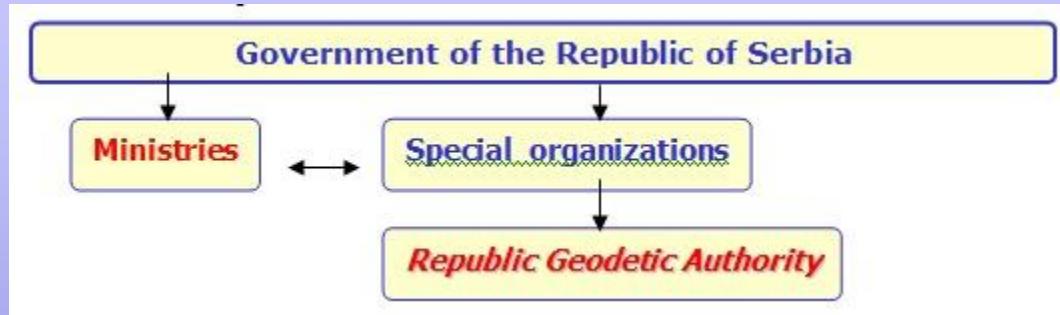
Topics:

- Competence
- Organizational structure
- State survey
- Funding
- Achieved results
- Cooperation with the World Bank
- Information technology & information management
- Conclusion

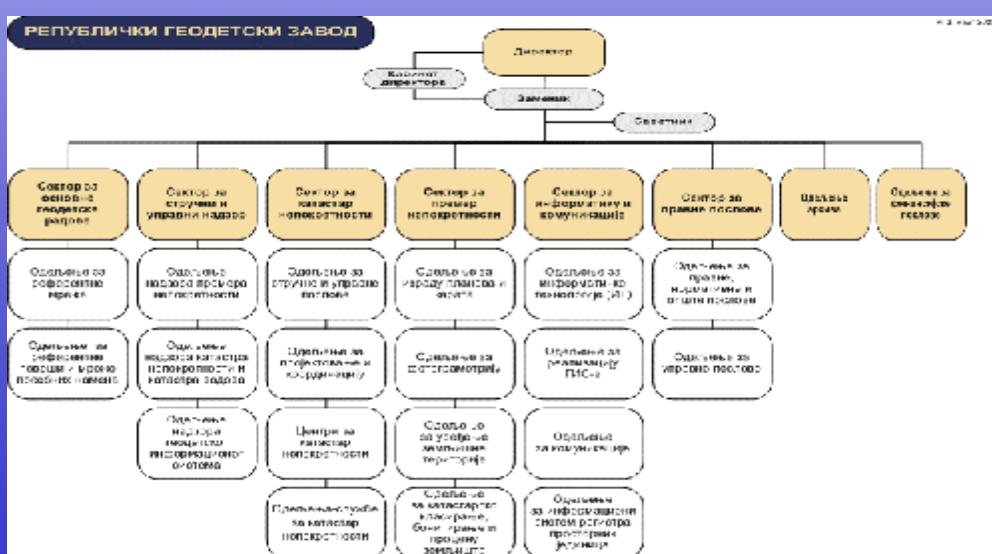
Competence:

- The state survey and land cadastre and registration of real estate rights, their establishment and maintenance;
- Production of the Basic State Map;
- Maintenance of the information systems (Spatial Units; address register, DSP, REC registry)
- Land classification;
- Determination of cadastral revenues;
- Land consolidation process;
- Establishment of geodetic networks and exchange of geodetic and cartographic data with the neighboring countries;
- Development and implementation of the geodetic information system;
- Maintenance of archives (technical documentation of the state survey, plans and maps),
- Other duties regulated by law

Organizational structure:



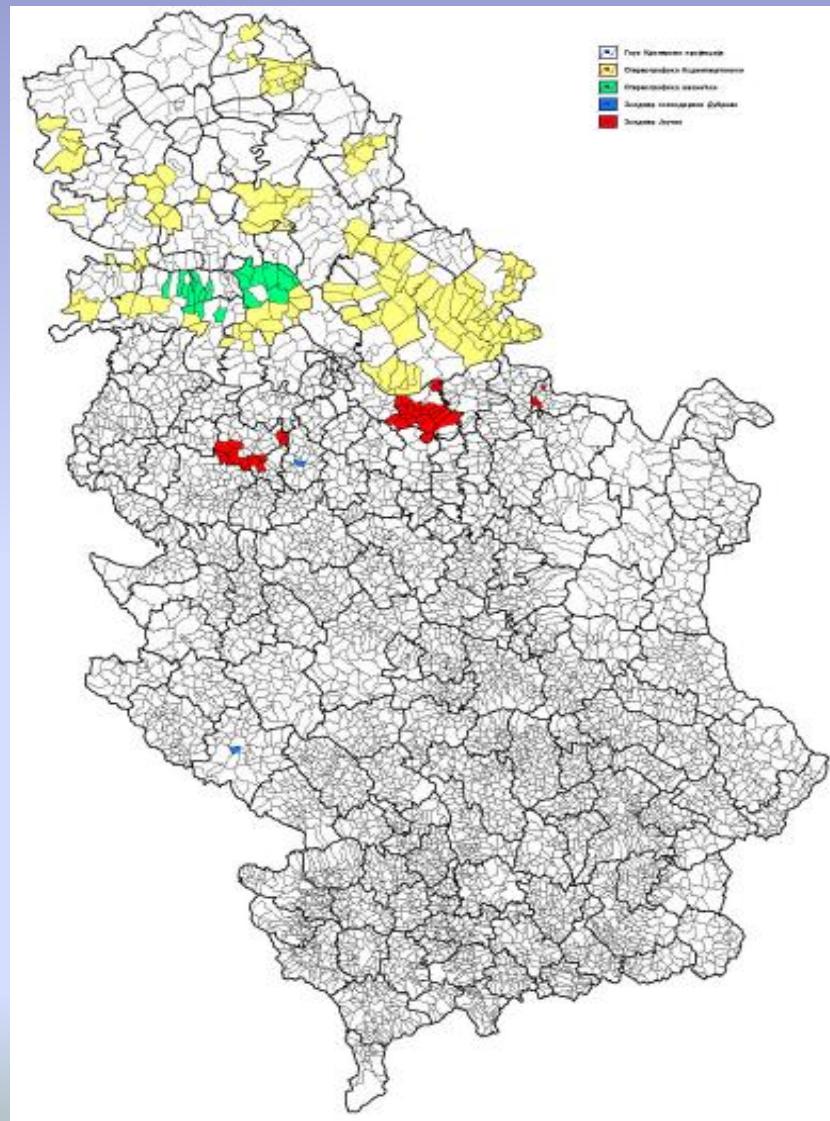
The Main Organizational Unit – headquarter Belgrade:



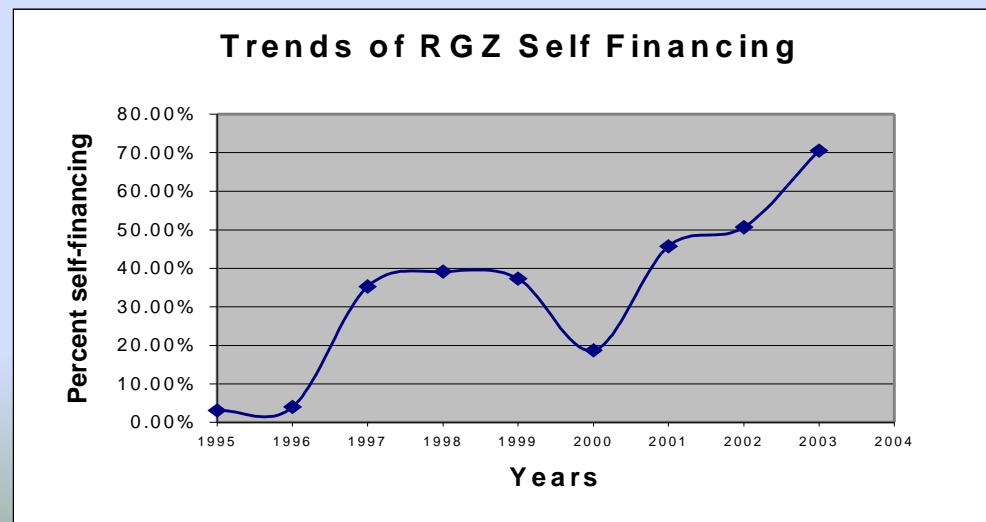
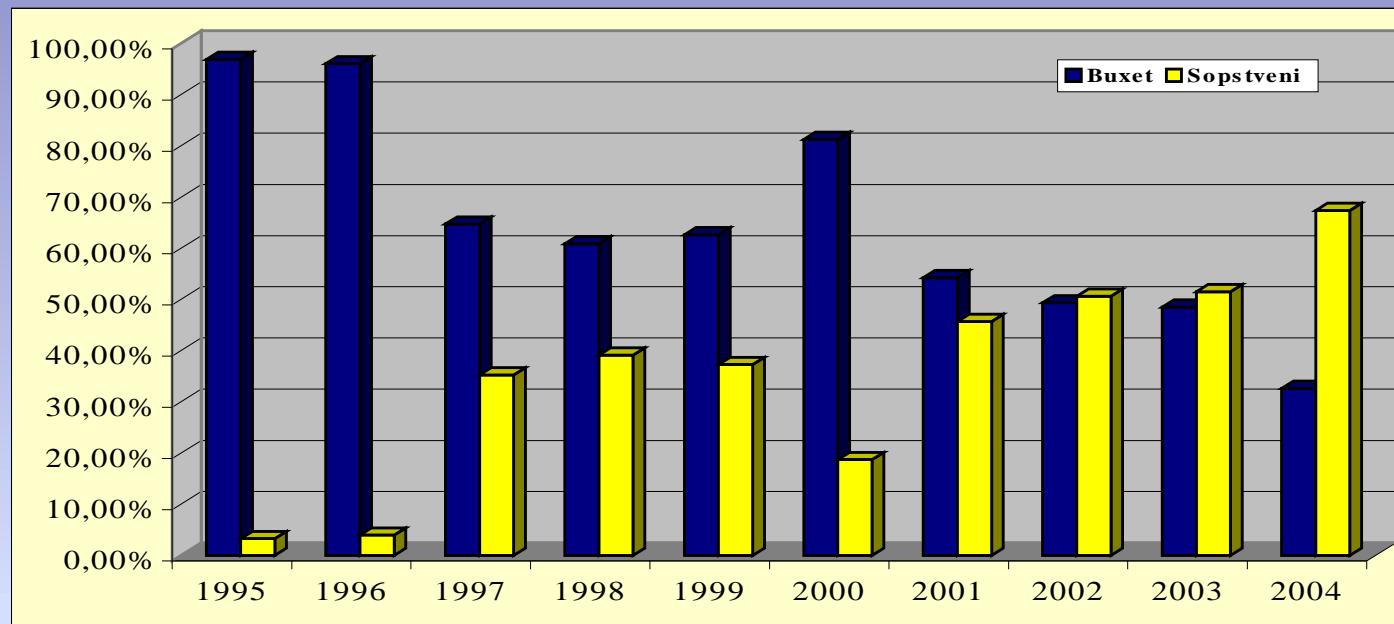
Organizational structure: (continued):

- 10 regional centers (including Kosovo) :
- 5,838 cadastre municipalities (4,591)
- 7 real estate cadastre departments
- about 2,888 employees in total

State Survey:



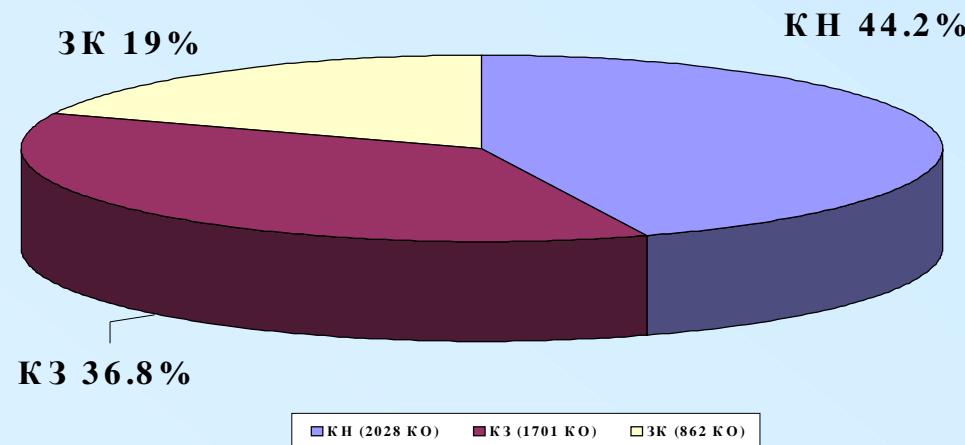
Funding:



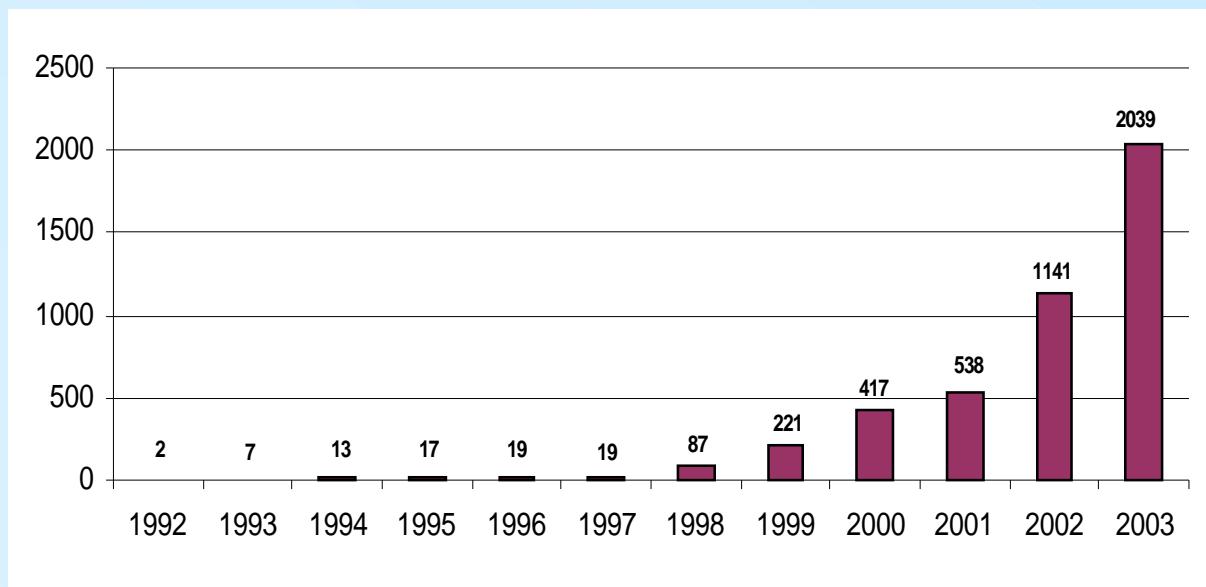
Achieved results:

The Republic of Serbia is currently using the following real estate registration systems:

- Land cadastre (K3)
- Land Books and Book of Deeds (3K)
- Real Estate Cadastre (KH)



Achieved results: (continued)



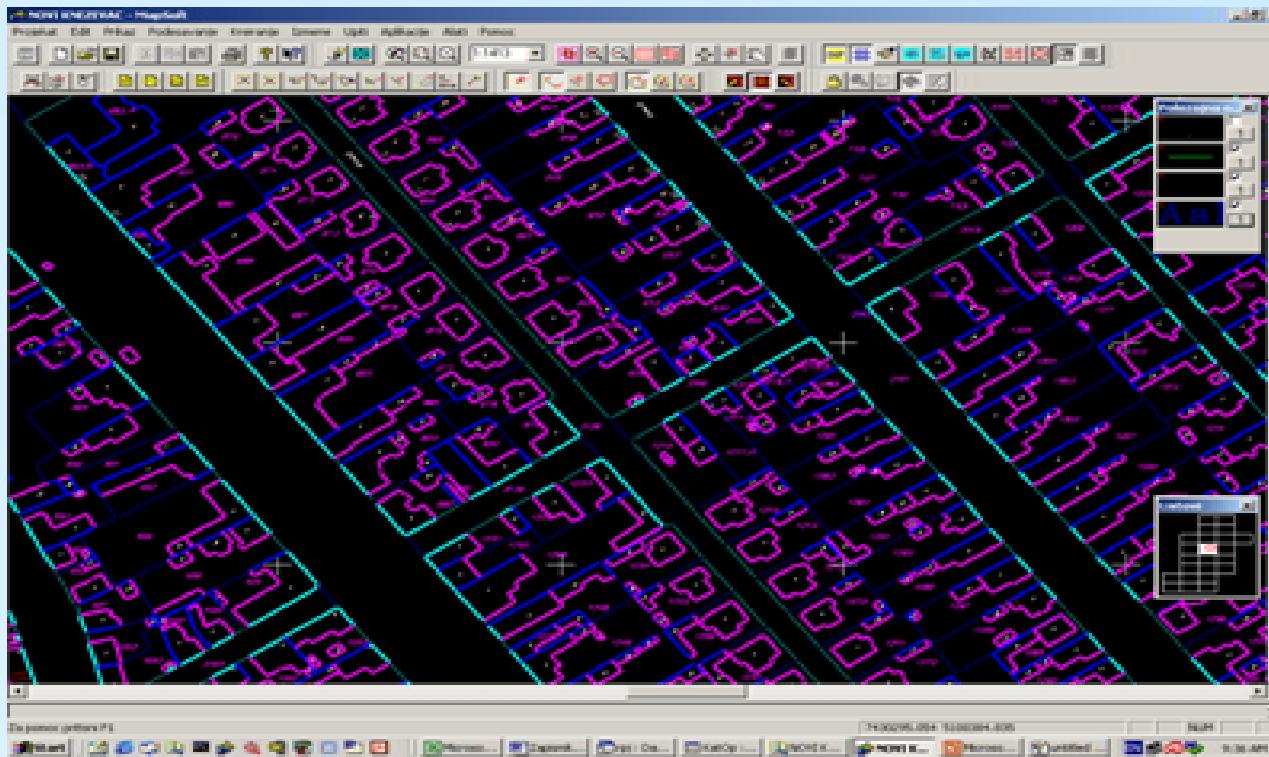
Achieved results: (continued)

Digital Surveying Plans in Serbia – the current status:

Scale	1:500	1:1000	1:1250	1:1440	1:2000	1:2500	1:2880	1:5000	Total
Total no of plans	1931	9547	9	115	79	59209	3365	1417	75.672
Digital Cadastre Plan (DCP)	284	318	0	0	0	776	0	4	1.382
DCP in progress	592	1166	0	0	0	1523	67	11	3.359
Planned plans for DCP	1055	8063	9	115	79	56910	3298	1402	70.931

Achieved results: (continued)

Typical existing Digital Surveying Plan:

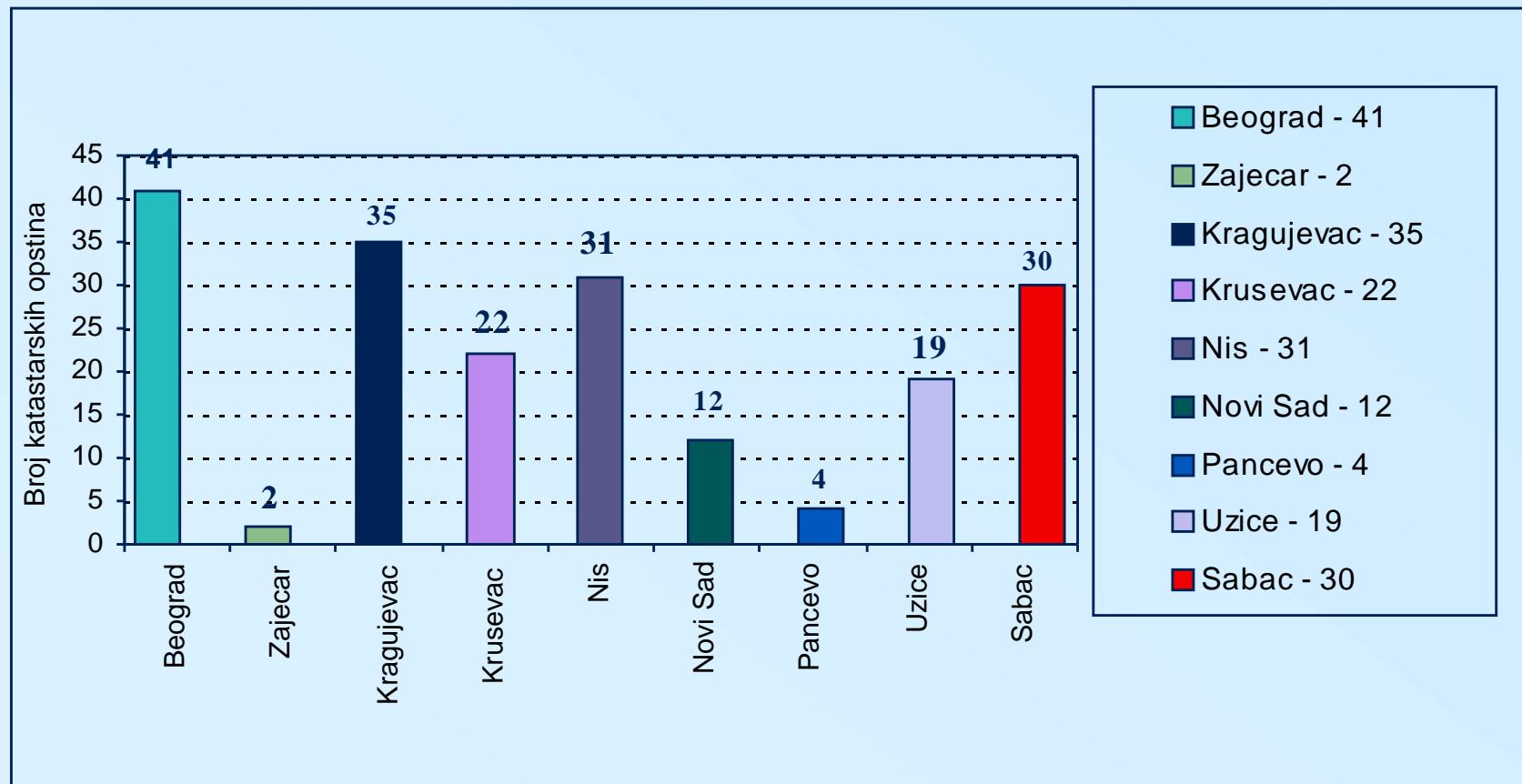


Software: MapSoft 2000

- data formats: dbf, cdx, fpt,
- conversions to: ascii, shp, dxf.

Achieved results: (continued)

Digital surveying plans per C.M.:



Cooperation with the World Bank

- Japanese Government: US\$ 382.400 - (donation for project preparation);
- GTZ - Germany: 1 milion €for 2 years 2 godine (technical assistance);
- SIDA - Sweden: 700.000 €for 1 year (training);
- Norwegian Government: 2 miliona €for 5 years – 950,000 €in 2004. - (scanning center establishment)
- EU- CARDS Program: 8.5 miliona €for 2 years, during 2005 and 2006.) – (REC registration digital cadastre, technical assistance) parallel financing.

Information technology

Existing information systems

Real Estate Cadastre J.E. v5 and GeodIS KN

Technology:

- Platforms: DOS/Novell; Windows
- Local DB: FoxPro; MS Access

Limits:

- Poor Data management
- Lack of good security, integrity
- Problem of concurrent users etc..
- No link with other systems

Digital surveying plan

Technology:

- Platform: Microsoft NT/2000
- Software: Map Soft 2000

Limits:

- Local databases
- Lack of sophisticated GIS tools
- Maintenance issues, etc.
- No link with other systems

Address register

Technology:

- Platform: Windows
- Software: graphic and alphanumeric application
- Database: Access (mdb)
- Map Objects: Geo Media

Limits:

- No link with other systems

Spatial Units IS

Technology:

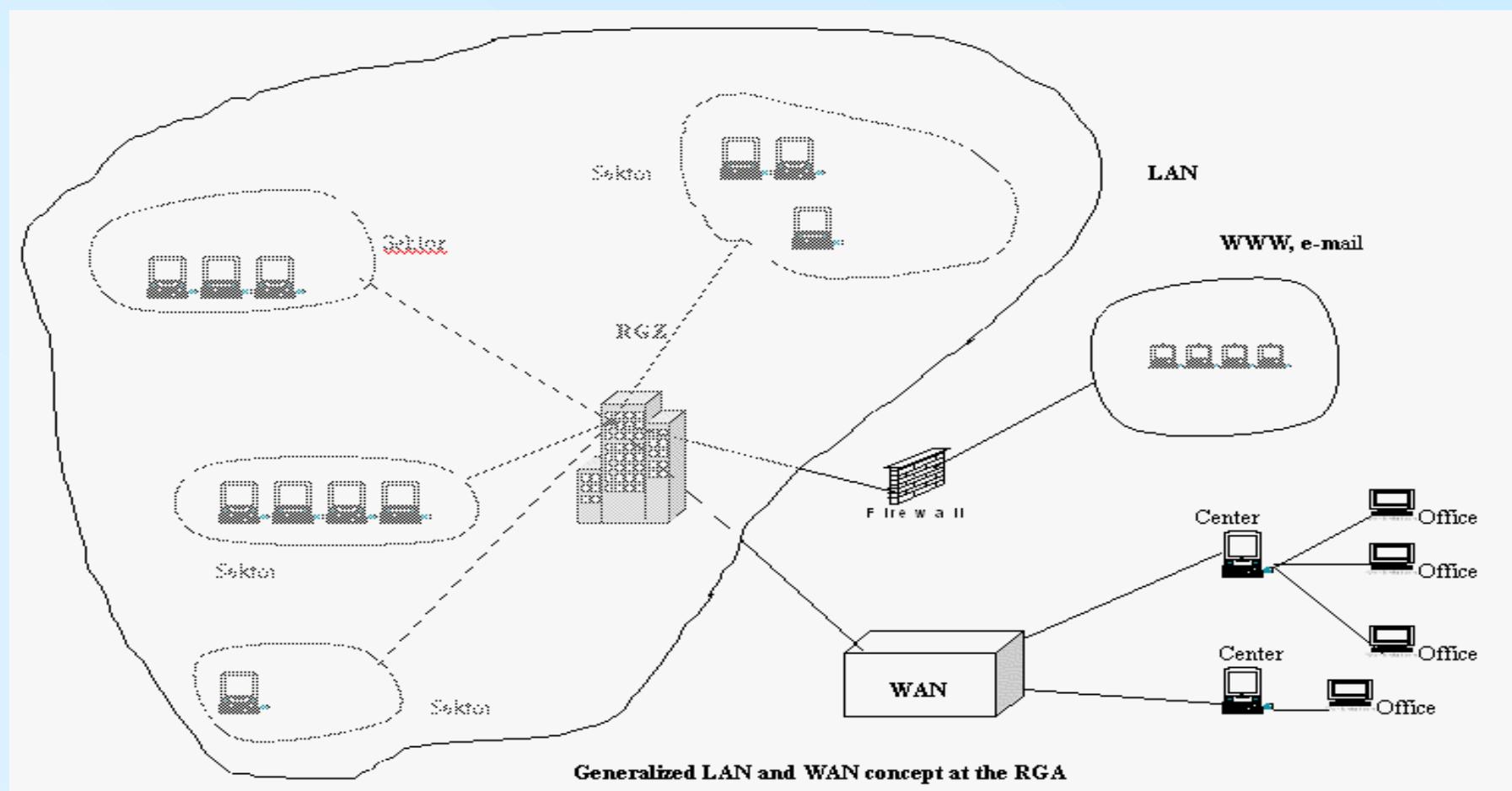
- Software: Geo Media, AutoCAD, various formats (dwg, dgn, gws, mdb)
- Database: MS Access

Limits:

- No link with other systems
- Maintenance issues, etc.

IT & IM planned development:

- LAN and WAN improvements/establishment



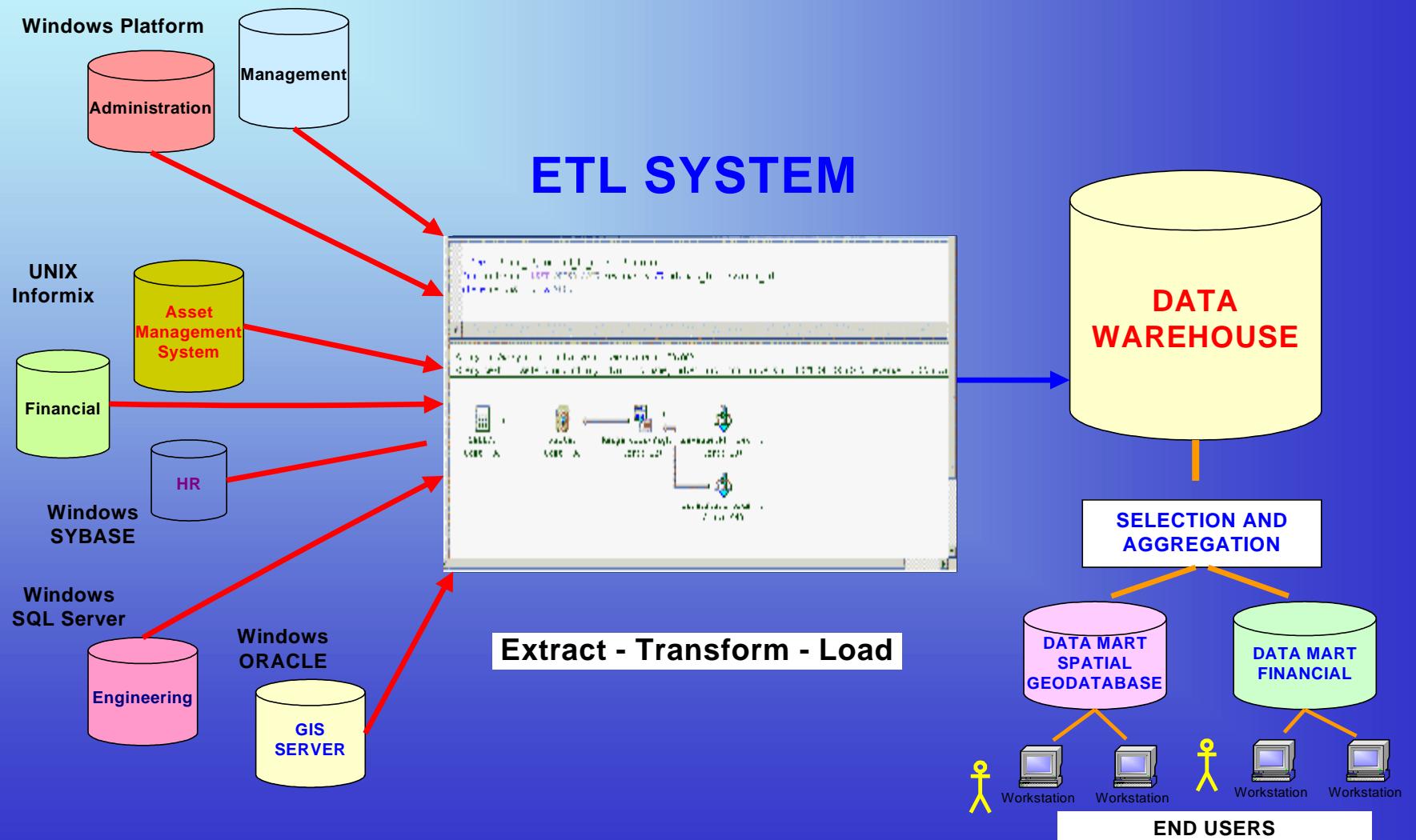
IT & IM planned development (continued):

- strategic actions and documents have been planned for development in the scope of the Mid Term Plan (MTP) and the proposed Real Estate Cadastre and Registration Project in Serbia, supported by the World Bank:
 - New data model development – integration of alpha-numerical and graphical models into a uniform Digital Geodetic Database (DGDB)
 - New application development) using the best commercial GIS technologies
 - Information management strategy

IT & IM planned development (continued):

- Information management policies and standards
- Electronic document management system (EDMS) implementation, with several sub-components (Enterprise content management system, Records management system, Digital asset management system, Digital imaging system, Geographic information system)
- Information management delivery strategies
- Information audit methodology
- Metadata standards
- IT / IS strategy model

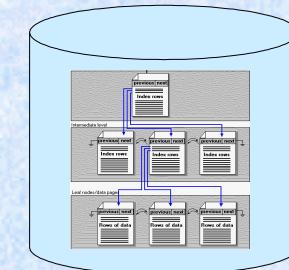
GENERALIZED ENTERPRISE HETEROGENEOUS INFORMATION SYSTEM ARCHITECTURE



Conclusion:



RGZ Mead Term Plan, supported by the proposed Real Estate Cadastre and Registration Project in Serbia, supported by the World Bank, will provide substantial official and financial support to realize the strategic goals discussed in this article.



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THANK YOU FOR ATTENTION !

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