

REPUBLIC OF SRPSKA
REPUBLIC ADMINISTRATION FOR GEODETIC
AND PROPERTY AFFAIRS

**CENTRALIZATION, VIRTUALIZATION AND
ELECTRONIC DATA EXCHANGE**

VRDNIK
18.-20.09.2019.

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PERIOD BEFORE 2014.

- Local Area Network**
 - At the level of the regional office
 - Without appropriate equipment
 - Data security is questionable
- Servers, software solutions**
 - Local servers for each regional office
 - Distributed software solutions
- Communication**
 - Internal
 - With stakeholders

PERIOD BEFORE 2014.

Problems faced by ICT employees

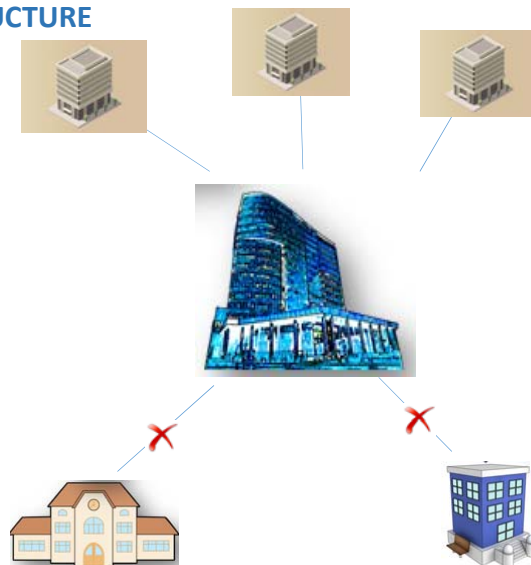
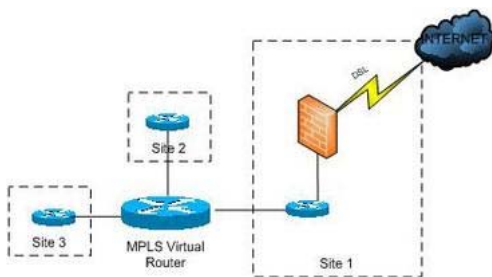
- A large number of servers
- Different application solutions
- Few IT staff at Headquarters, while there were no staff at regional offices
- Age structure of employees
- Frequent need to go to regional offices locations for service interventions
- Data replication
- Expensive telecommunication services, low throughput, insecure communication channels
- Server problem (constant lack of memory and space).
The solution to buying new servers and more new ones ...



ESTABLISHING COMMUNICATION INFRASTRUCTURE

Realization and result

- Procurement of communication equipment
- VPN connection for all regional offices with headquarter
- Ability to monitor and filter traffic online
- Antivirus Security Center



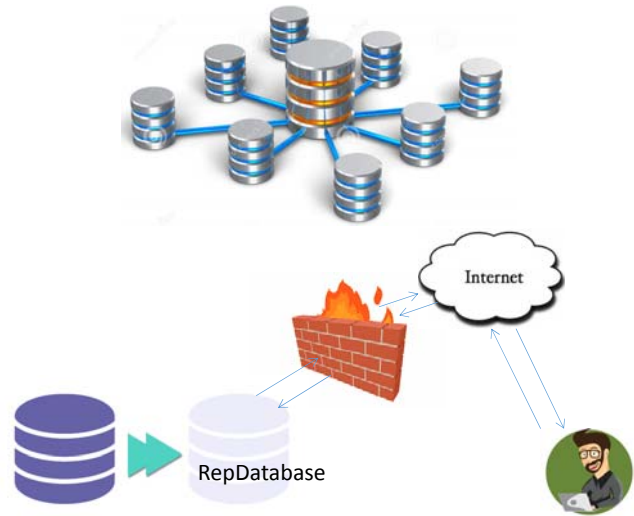
CENTRALIZATION

Centralization of database servers

- All databases in one place
- Easier database administration
- Data integrity
- Increased data security
- Better support for internal system users

Data replication, DMZ and public insight

- Local data replication
- Availability of data for public insight
- Conditions for creating data sets at user request



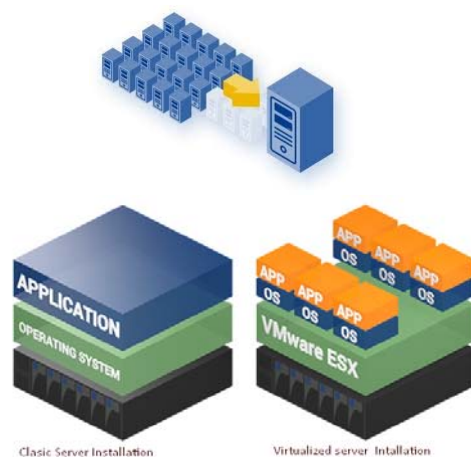
VIRTUALIZATION

Virtualization and backup solutions used

- Wmware
- Veeam

Benefits

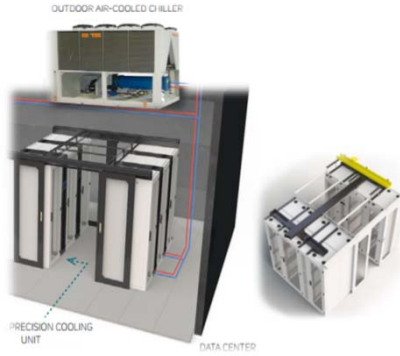
- Reduced need for strong cooling
- Less power consumption
- Simplified server maintenance
- Fewer servers
- Faster and easier Backup/Recovery
- Ideal for various types of testing



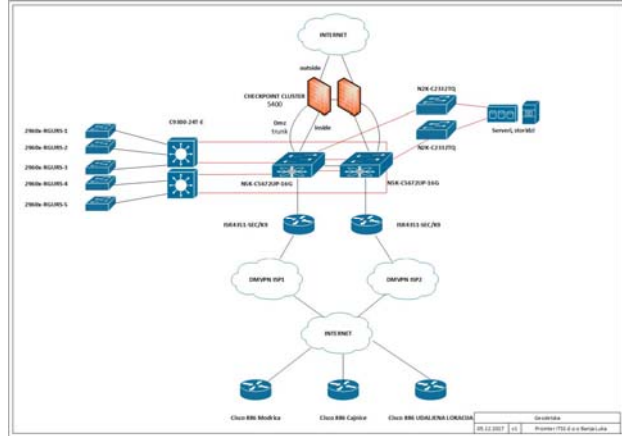
DATA CENTER

What have we achieved by building a modern datacenter?

- ❑ Guaranteed data availability 24/7
- ❑ Data security
- ❑ Redundancy
- ❑ Traffic monitoring and filtering

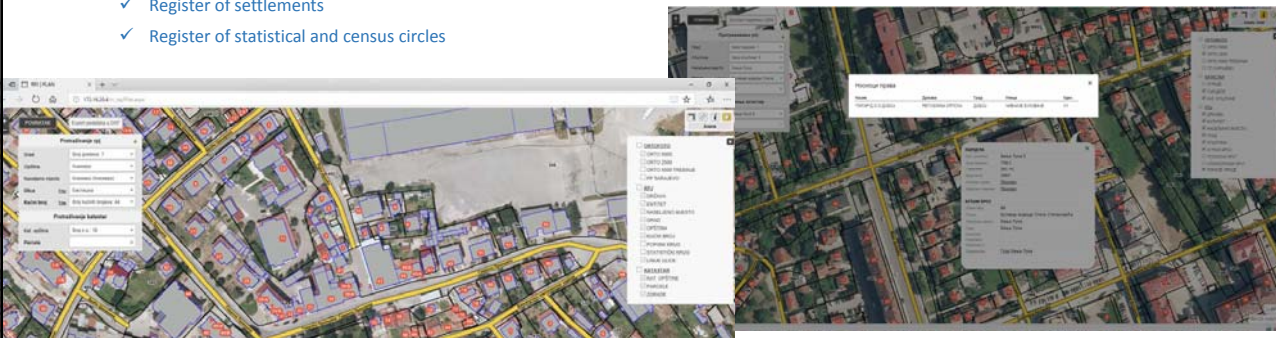
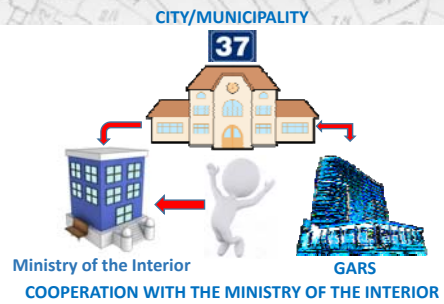


Data center - Headquarter, planning solution



ADDRESS REGISTER

- ❑ Software solution
- ❑ Address register in all cities/municipalities of Republika Srpska
- ❑ 200,000 addresses entered in the system
- ❑ Pilot Municipalities (Trebinje and Modrica)
- ❑ Other municipalities
- ❑ Registers of spatial units:
 - ✓ Register of settlements
 - ✓ Register of statistical and census circles



ELECTRONIC DATA EXCHANGE

Data Sharing Agreements

- Signed Data Sharing Agreement with the Ministry of the Interior (Citizens Register)
- Agreement with Intermediary Agency for IT and financial services (Business Register)

What information is exchanged?

- Real estate technical data
- Digital cadastral map data
- Property right holders data
- Address register data
- Citizens Register data



ICT STRATEGY

ICT strategy:

- For period of 10 years

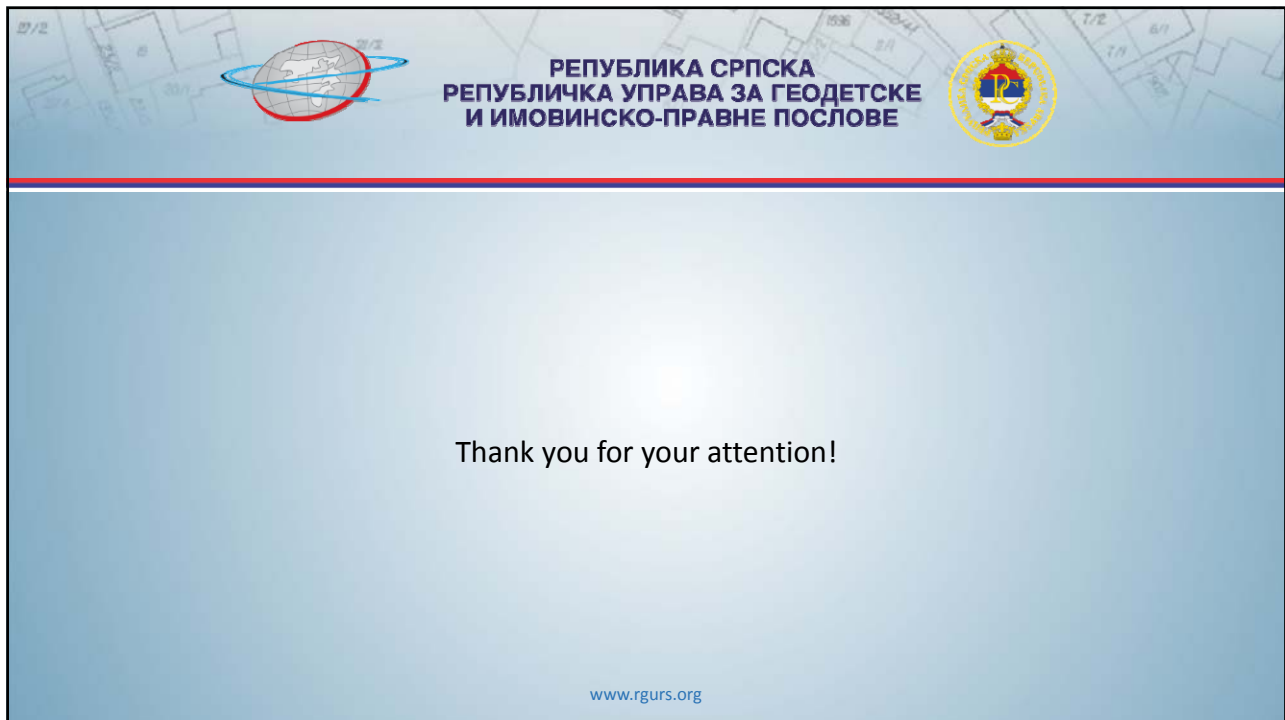
Strategic goal:

- Optimal, stable, interoperable, comprehensive and sustainable IS


Strategic goals by area:

- Integrated system and communication infrastructure
- Software tools in the job function
- Information security
- Appropriate equipment and customer support
- GARS IS as an integral part of the eGovernment system of Republic of Srpska

	Current application solution / database	GARS IS subsystem
1	Pisarnica	DMS
2	eTerraSoft	
3	Laris	
4	IPP	
5	MapSoft, DIGIT, Katane/Kataze	
6	Knjiga uloženi ugovora (Flat Contracts Register)	eCadastral RS
7	Registar cijena nepokretnosti (Sales Price Register)	
8	Adresni registar (Address register)	
9	Poslovno informacijski sistem (Business information system)	ERP
10	SatWork	
11	Pošta (Post)	
12	Utrošak goriva (Fuel consumption)	
13	Digitalni arhiv (Digital Archive)	Digital Archive
14	SUFI (Finnacial software)	SUFI
15	COP (Finnacial software)	COP
16	GeoPortal	GeoPortal
17	Intranet portal	Intranet portal
18	Redmine	CRM
19	Red čekanja (User records in regional office Banja Luka)	



РЕПУБЛИКА СРПСКА
РЕПУБЛИЧКА УПРАВА ЗА ГЕОДЕТСКЕ
И ИМОВИНСКО-ПРАВНЕ ПОСЛОВЕ



Thank you for your attention!

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