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MINISTRY OF ENVIRONMENT SPATIAL PLANNING
KOSOVO CADASTRAL AGENCY

Towards Integration of Cadastral Land Information System in Republic of Kosovo

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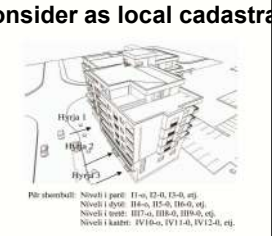


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Cadastral and Land Information System in Kosovo

- ◆ Kosovo Cadastral Agency is the owner of the Kosovo Cadastre Land Information system (KCLIS),
- ◆ responsible for cadastre reconstruction and massive (systematic) cadastre registration data from projects
- ◆ Municipal Cadastral Offices, Based on the law of Cadastre, article 4, are responsible for (sporadic) daily maintenance of Cadastral data. Consider as local cadastral services


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Kosovo Cadastre Land Information System (1) (KCLIS)

(KCLIS) has been conceived based on Cadastre 2014, as an integrated multi-part system.

Fulfil fundamental requirements:

- a legal system
- satisfies the needs of the society, economy and environment
- matches to the IT standards
- development approach is flexible
- raise awareness and communication

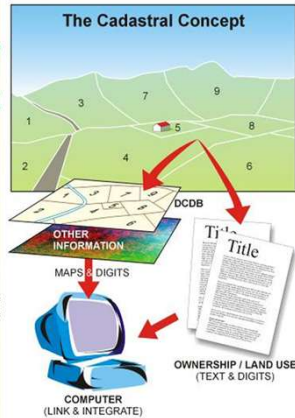



FIG 1999
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Kosovo Cadastre Land Information System (2) (KCLIS)

LA system is depends on an effective cadastral system.
So the integrated KCLIS enables to make effective



- efficiency,
- transparency,
- access to data,
- improving customer satisfaction,
- new statistics, historical evidence.....

needs:

- new technology,
- new experience
- opportunities for updating and improvement cadastral data and
- capacity for maintenance of the new system




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KCLIS modules

- **KCLIS-T**
Management of cadastre text-legal information (property rights, mortgages, restrictions, land use and ownership data)
- **KCLIS-DM**
Document management (purchase contracts, owners information, curt decisions etc.)
- **KCLIS-G**
Management of map features (raster and vector data as geoinformation) and **ARIS** – Address registry. **Geoportal** – National web portal for dissemination of cadastral and Geospatial Data
www.kca-ks.org
- **KCLIS-CM**- next slides




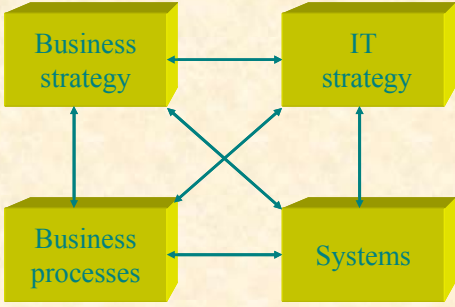
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Development of NSDI for Kosovo

Data integration and NSDI concept in Kosovo is going to be key success to the comprehensive cadastre including rights and restrictions,

Analysis of Kosova NSDI



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Graphical Cadastral Data – Cadastre Map

- The existing Cadastral Map data for all properties in Republic of Kosova are in digital format, no gaps on graphical cadastral data



The same data are in KCLIS-T

- Those data until now is made using the *Geomedia* platform with the adopted module *GeosPro-Procalc*
- Those data have ben stored in local data bases and the backup of data is made manually.

New KCLIS-CM (Kosovo Cadastre Land Information System - Cadastre Map) is developed with the aim for general completion of the unified and integrated Kosovo Cadastre Land Information System




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Concept of KCLIS-CM

- **Management of Cadastre Map information** – store, edit and manage the graphical information about the all immovable property units (parcels, buildings, apartments, utilities)
- **Management of Land Survey Data** – boundary points, boundary lines and cadastre unit areas
- **Import and export of land survey and cadastre on required standard formats**
- **Historical data storage** – archive all changed and edited cadastral data
- **Interoperability with other KCLIS components (services)**


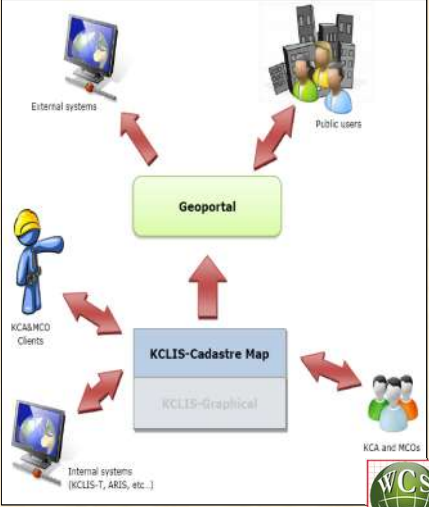


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What KCLIS-CM offers?

- High security in relation to stored data and system access
- High reliability and availability (>99%)
- High scalability and performance
- Support for multiple languages, on both user interface and stored data level
- Enhanced interoperability capabilities for cooperation with other KCLIS systems (Geoportal, ARIS-address register, KCLIS-Textual, KCLIS-Document Management)




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Advantages of KCLIS-CM

- Integration of the two bases with cadastral data (Textual -Cadastral Map)
- Quick comparison and analysing the consistency and reliability of the cadastral data between data bases,
- Correction of inconsistencies on cadastral data between the two databases,
- Increase the data quality and update status in cadastral data,
- Presentation in real time on National Geoportal on updates and changes made on all graphical cadastral data, as information for the owners and interested public users
- Facilitate the check and processing of the cadastre data which represent the situation before 1999 and it is expected to be returned by Serbia,
- Creation of several statistical reports: QA/QC report, report on changes, report on neighbour units, report on inconsistency between graphical and textual data, comparison of all existing data (textual and graphical) etc.
- Wide flexibility for user administration and editing rights management




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Implementation KCLIS-CM in Municipal Cadastral Offices

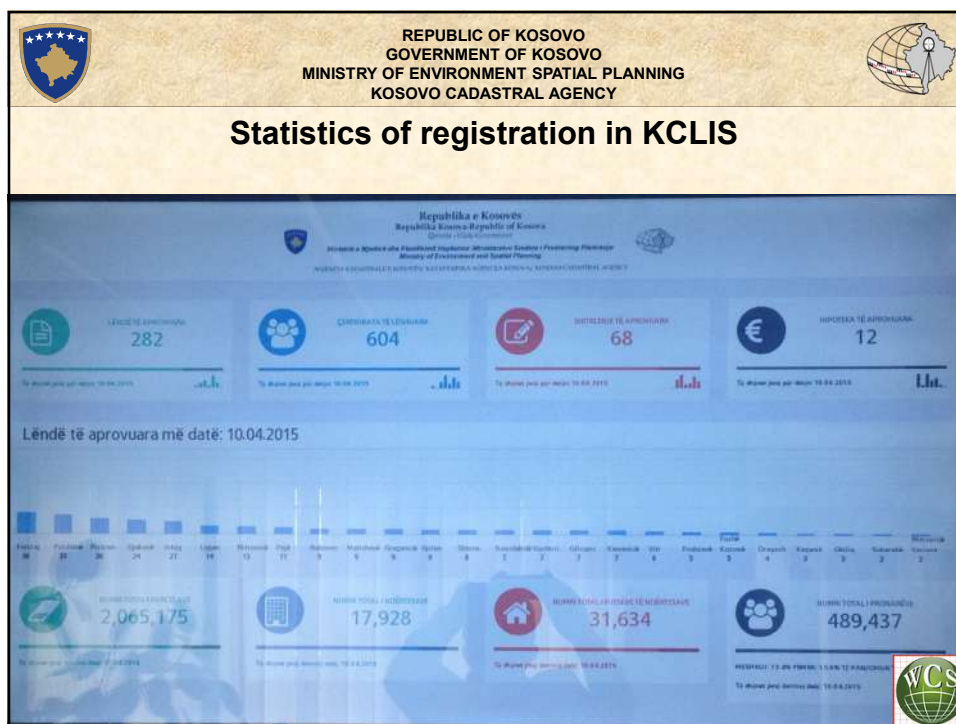
Project implementation phases:

- Development of application by company and partial testing of delivered functionalities through three iterations
- Testing of completed application at KCA with the two pilot Municipalities
- Final application acceptance
- Training of users in test environment (data base) in average 5 working days,
- Data correction and migration (upload) of corrected data in production-real environment.
- Support of users (on job training) for independent work in production-real environment.





KCLIS-CM training of end users





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Conclusions

The objective of Cadastral Land Information System in Republic of Kosovo is the harmonization of the cadastral legal part (textual base) with the cadastral map (graphical part).

The implementation of KCLIS-CM leads Towards Integration of Cadastral Land Information System in Republic of Kosovo

These are significant steps for the requirements of future Cadastre 2020,

“Coordinate Cadastre”



Thanks for your attention!
İlginiz için teşekkür ederiz!
Faleminderit për vëmendje!

