Address register in the perspective of NSDI

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FIG Working Week 2012
Knowing to manage the territory, protect the environment, evaluate the cultural heritage

Rome, Italy May 06- 10, 2012

Republic of Kosovo on the map of Europe

- AREA   10 908 km²
- BORDER LINE   744 km
- CADAS. ZONES   1302
- MUNICIPALITIES   38
- MCO   38
- CADAS.PARCELS   2 Mill.
- OWNERS   400 000
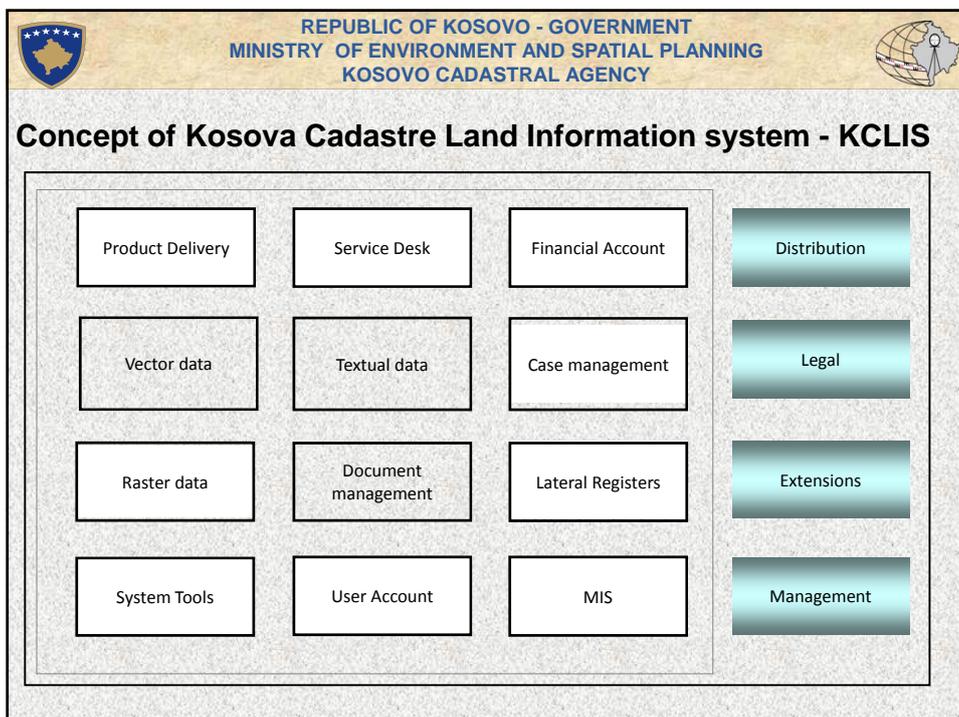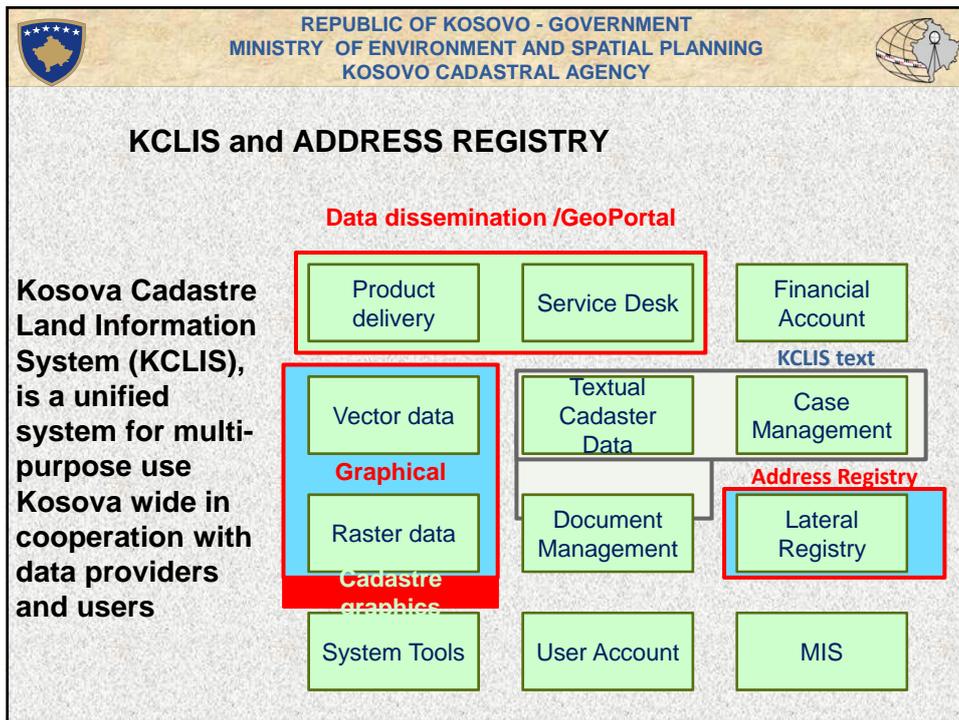
What kind of data does NSDI contain in R. Kosovo?

- adress register data
- thematic data
- statistical data
- geological data
- mineral resources data
- protected sites data
- transportation
- …….

Implementation timeline of Address Register project in Republic of Kosovo

- **Project started in March 2011 (financed from EU)**

- **System development: Start - February 2012**

- **System roll-out: October 2012**

- **Data collection at Municipalities: Start – May 2012**

- **System handover: January 2013**
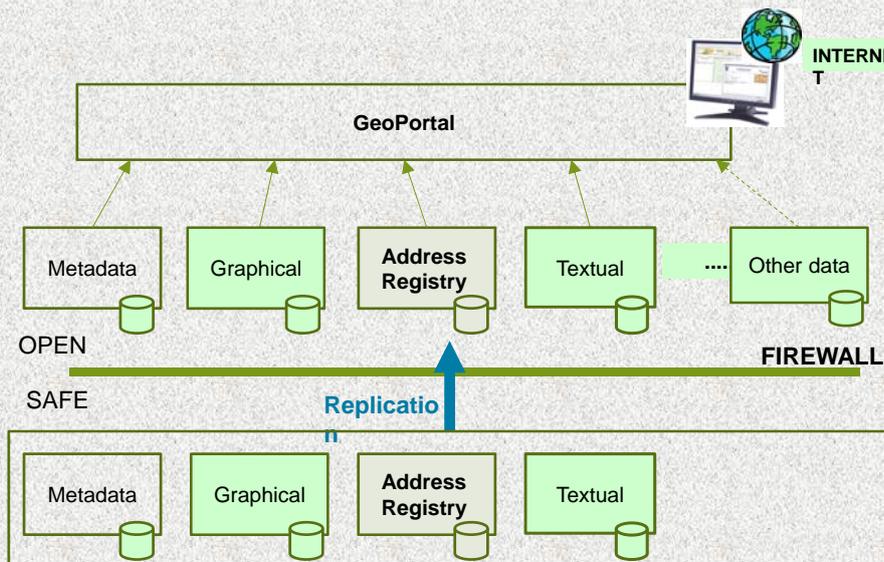
- **Project to be completed December 2013**

Law on Address system No.04/-L-071 is promulgated in December 2011

KCLIS and ADDRESS REGISTRY

Data dissemination /GeoPortal

Kosova Cadastre Land Information System (KCLIS), is a unified system for multi-purpose use Kosova wide in cooperation with data providers and users

Product delivery	Service Desk	Financial Account

KCLIS text

Vector data	Textual Cadaster Data	Case Management

Graphical

Address Registry

Raster data	Document Management	Lateral Registry

Cadastre graphics

System Tools	User Account	MIS

Concept of Kosova Cadastre Land Information system - KCLIS

Product Delivery	Service Desk	Financial Account	Distribution
Vector data	Textual data	Case management	Legal
Raster data	Document management	Lateral Registers	Extensions
System Tools	User Account	MIS	Management

Address Data Dissemination

- ➢ NSDI framework
- ➢ KCA Geoportal & Metadata System:
- ➢ Discovery
- ➢ View
- ➢ Download
- ➢ Data service
- ➢ Civil Registry Agency (CRA)
- ➢ Government Ministries
- ➢ Public enterprises (e.g. KEK)
- ➢ Banks

INTERNET

GeoPortal

| Metadata | Graphical | Address Registry | Textual | .... Other data |

OPEN

FIREWALL

SAFE

Replication

| Metadata | Graphical | Address Registry | Textual |

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REPUBLIC OF KOSOVO - GOVERNMENT
MINISTRY OF ENVIRONMENT AND SPATIAL PLANNING
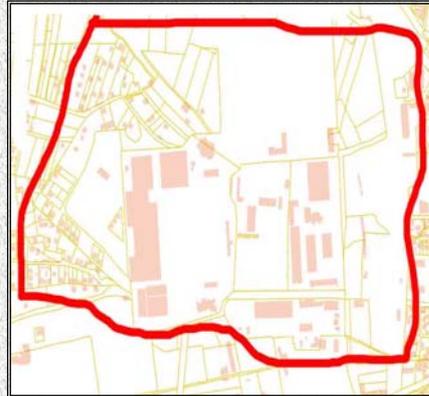**KOSOVO CADASTRAL AGENCY**

Pilot location of Address register project

Map with urban part of Municipality
Prizren

Map with rural and industrial part of Municipality ***Prizren***

REPUBLIC OF KOSOVO - GOVERNMENT
MINISTRY OF ENVIRONMENT AND SPATIAL PLANNING
KOSOVO CADASTRAL AGENCY

Definition of road lines, names and addresses of building entrances

Existing Signs

Proposed Signs in Project

Rr. St. Ul.

MAJOR MEHMET BUSHI

SHESHI/TRG./MED.

HASAN PRISHTINA

60 - 100 cm

25 cm

1 cm

26A

28

9

157
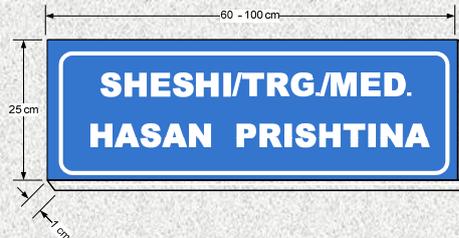
Purpose of pilot project
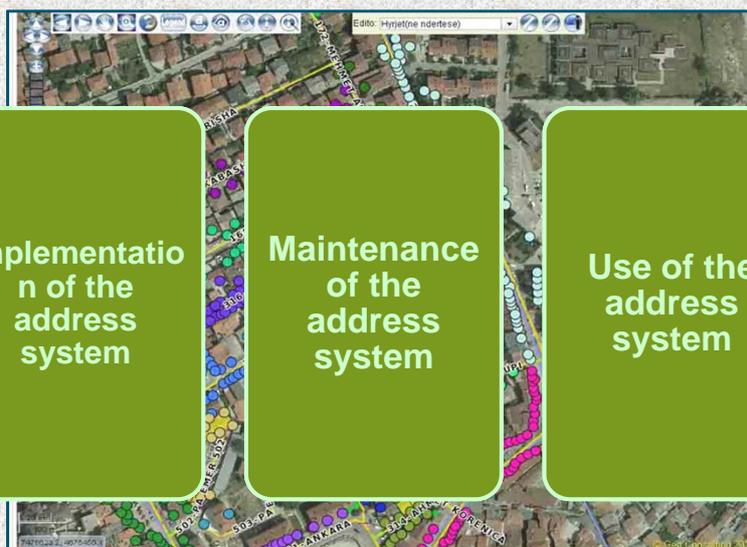
| Implementation of the address system | Maintenance of the address system | Use of the address system |

Do address building numbers and signs exist in Republic of Kosovo?

According to analysis in pilot location in Prizren:
Existing situation with name of roads and road segments

Total number of roads in the pilot area

Description	Number of roads	%
Roads in urban areas	16	43.24
Roads in rural areas	15	40.54
Roads in industrial areas	6	16.22
Total	**37**	**100**

Roads with or without existing road names, with start and end point

Description	Number of roads	%
Roads with names	30	81.08
Roads without names	7	18.92
Total	**37**	**100**

According to analysis in pilot location in Prizren:

Existing situation of building numbering

Comparison table of buildings

Description	No of buildings
Cadastre building polygons in the pilot area	1688
SoK building polygons in the pilot area	530
Number of building that is given address number	896

Existing and non existing building numbers

Description	Number of buildings	%
Building with existing numbers	84	9.4
Building without existing numbers	812	90.6
Total	**896**	**100**

Example of time analysis for completion of addresses <u>for roads,</u> in Pilot city of Prizren

No	Analysis for completion of addresses for roads	Time
1	Number of roads tested	30
2	Length (km)	8
3	Field hours	16
4	Office hours	5
5	**Total number of roads**	**600**
6	Field hours	320
7	Office hours	100
8	Hours total	420
9	Total Working Days	52.5
10	**Months total**	**2.5**

Analysis for one team (two members)

Analyses for linkage between new and existing addresses

From existing database of addresses what Kosovo Energy Corporation (KEK) uses

➢ KEK does not have a map where you can refer to the existing address and enable the linkage between the new and the old address

➢ The linkage during the implementation will help in the process of monitoring and checking the accuracy of the process during the establishment of the new address

➢ If the linkage is done during the establishment of the new address then both addresses are linked correctly and automatically

➢ The new address enters immediately into usage through KEK monthly invoices

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Conclusions from pilot project

➢ **In Republic of Kosovo the addresses exists, but not a unique address system. There is a visible confusion about the way ordinary citizens and service providing agencies address reach their clients;**

➢ **The new address should be simple and understandable for all citizens. For a faster usage, the linkage between the existing and the new address should be done during the implementation phase.**

➢ **In the bill of private and state agencies should be temporarily used both addresses.**

CONCLUSIONS

➢ **The existence of an official (unique) address register makes it unnecessary for other institutions to collect address data independently**

➢ **The address data should be as accessible for both public and private users.**

➢ **The Address Register should be a single and authoritative source of address information in Kosovo. It will be based at the Kosovo Cadastral Agency (KCA) and will enable the collection and updating of address information at 38 Municipal offices.**

➢ **The Address Register Information System should be in accordance with the overall concept and system architecture principles as described in the KCLIS Strategy 2010- 2015 document.**

➢ **The dissemination of the Address Register data to both governmental and non-governmental clients will be done via NSDI framework**