Republika e Kosovës
Republika Kosova-Republic of Kosova
Qeveria –Vlada-Government
Ministria e Ekonomisë dhe Ambientit/ Ministarstvo Ekonomije I Život Sredine
/Ministry of Ekonomy and Environment

AGJENCIA KADASTRALE E KOSOVËS/ KATASTARSKA AGECIJA KOSOVA/ KOSOVA CADASTRAL AGENCY

UNIFIED ADDRESS SYSTEM IN
THE REPUBLIC OF KOSOVO

Unified Address System Components

- The project started in December 2010;

- The project is supported by the EU Office in Kosovo and Norway Government;

- Implementing Kosovo Cadastral Agency / Municipalities at local level;

- Pilot Project;

- Legislation framework;

- Capacity building in central (KCA) and local level (UPO);

- ARIS's development;

- Data collection and digitizing into ARIS (national level);

- Address data dissemination;

- Address signalization;

- Use of Address Register;

- Cooperation and beneficiaries of relevant institutions from Address System;

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Results Achieved

✓ *Results*

- Address Legislation framework
- The electronic and functional State Address Register (ARIS)
- Public Circulation Type Designated and Named
- Address data collected in the field
- Address data digitized and numbered in ARIS
- Official Addresses presented in the State Geoportal
- Capacity building in municipalities
- Road name signalization
- Entrance number signalization
- Roads and address data updating
- Address linking with state registers CRA (Hani I Elezit), Statistics

✓ Why is it important for the citizens?

- For public services
- Postal services
- Emergencies
- Courts etc.

CITIZEN INFORMATION FOR NEW ADDRESS

Address Elements by Law

- Municipality name;

- Settlement name;

- Name of Public Circulation Space in which the object has an exit;

- Building number;

- Entrance number;

- Floor number;

- Apartment number;

- Postal code.
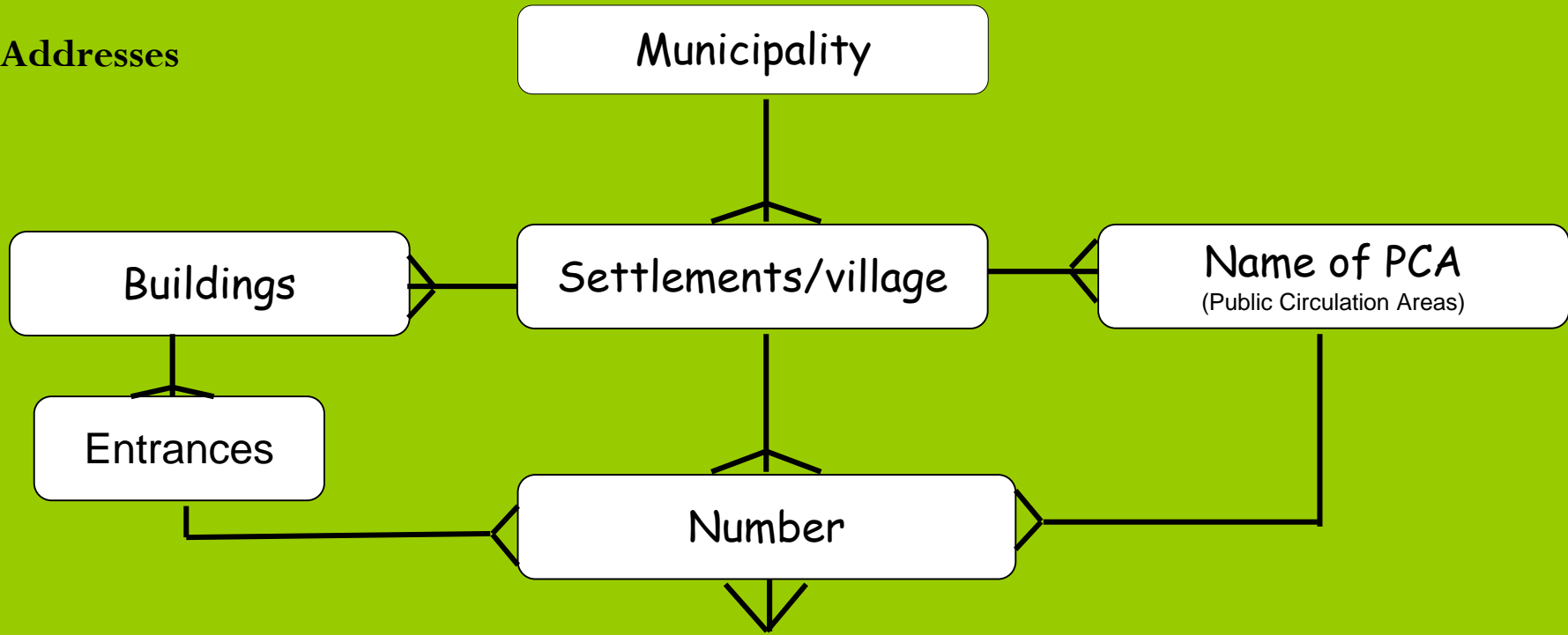
Name and Surname
Str. Isa Boletini
Nr.131, fl 2, Ap.11
Dardani Prishtinë 10000
Republic of Kosovo

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```
                          ┌──────────────────────┐
                          │     Municipality     │
                          └──────────┬───────────┘
                                     │
┌──────────────┐      ┌──────────────────────────┐      ┌──────────────────────┐
│  Buildings   │─────▷│    Settlements/village    │─────◁│      Name of PCA      │
└──────┬───────┘      └──────────────┬───────────┘      │ (Public Circulation  │
       │                             │                   │       Areas)         │
┌──────────────┐                     │                   └──────────────────────┘
│  Entrances   │                     │                               │
└──────┬───────┘      ┌──────────────────────────┐                   │
       └─────────────◁│          Number          │◁──────────────────┘
                      └──────────────┬───────────┘
                                     ▽
```

"The number of address" is the numeric identifier of an addressable object - houses, collective building, shop, ground, along a PCA.

Who gets the address?

"Addressable objects"

All addressable objects given address.

Addressable objects are called stable structure on earth has come to us in service for different needs;

Addressable Objects

Ndertese banimi shumekateshe

Shtepi vetjake

Ndertese qeveritare

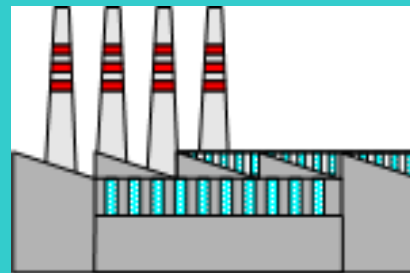Ndertese biznesi shumekateshe

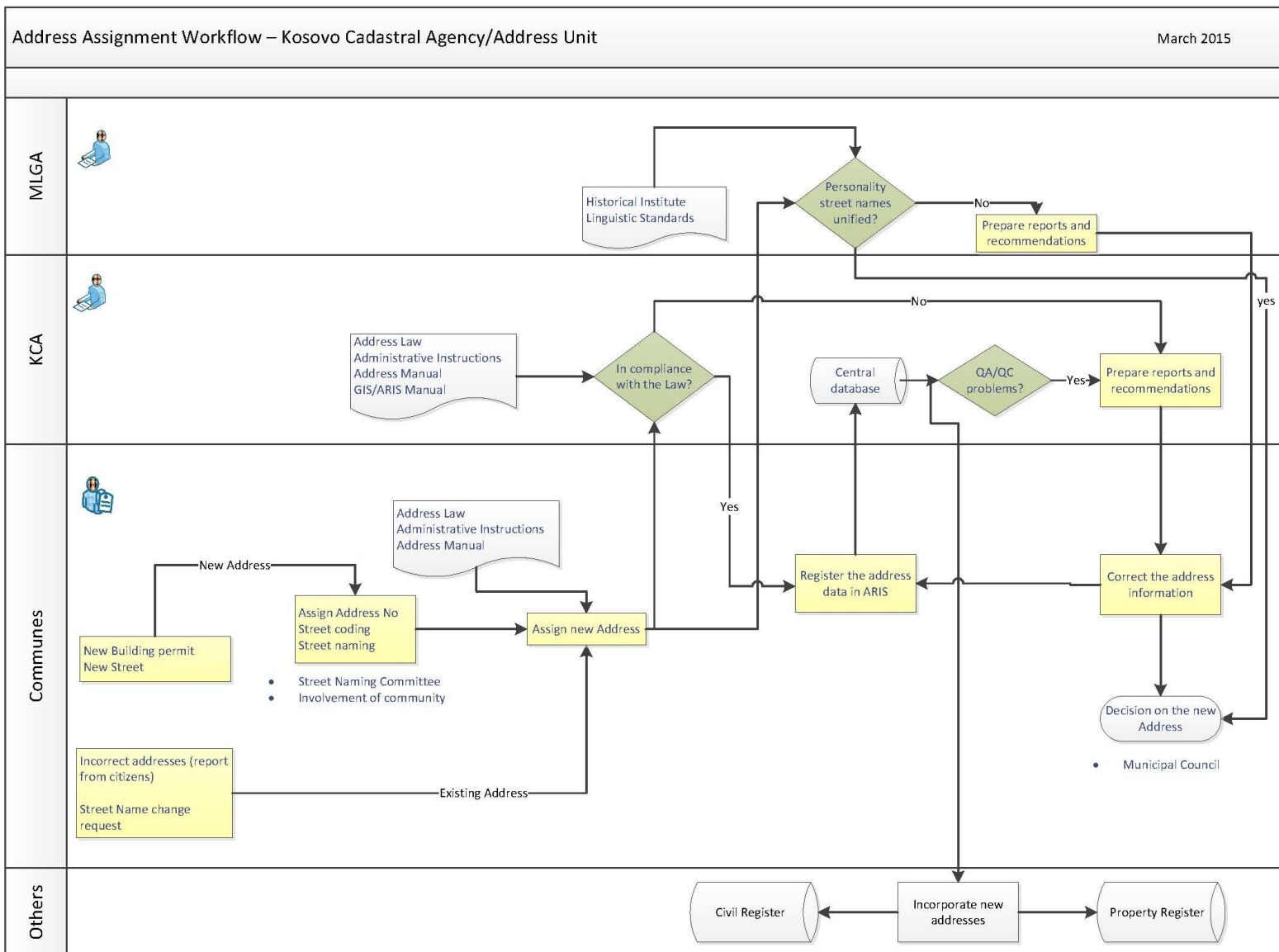Shkolle

Urgjenca - Zjarrfikese

Muzeum

Stacion i trenit

Fabrike

Pike furnizimi

Address workflow

Address Assignment Workflow – Kosovo Cadastral Agency/Address Unit   March 2015

MLGA

Historical Institute
Linguistic Standards

Personality street names unified?

No → Prepare reports and recommendations

KCA

Address Law
Administrative Instructions
Address Manual
GIS/ARIS Manual

In compliance with the Law?

No

Central database

QA/QC problems? — Yes → Prepare reports and recommendations

yes

Communes

Address Law
Administrative Instructions
Address Manual

New Address

New Building permit
New Street

Assign Address No
Street coding
Street naming

- Street Naming Committee
- Involvement of community

Assign new Address

Register the address data in ARIS

Correct the address information

Yes

Incorrect addresses (report from citizens)

Street Name change request

Existing Address

Decision on the new Address

- Municipal Council

Others

Civil Register ← Incorporate new addresses → Property Register

ADDRESS REGISTER INFORMATION SYSTEM (ARIS)

Role of ARIS

- Fulfill legal requirements

- WEB GIS application in use by KCA and UPO

- Designed to create and maintain addresses in Kosovo

- Efficient collection, storage & query of address data

- Maintain a centralized data

- Graphical and textual part

- Based on SOA technology

- Serves as the basis for the distribution of data

- Flexible and advanced information system

- Sustainable system

Functioning of ARIS

Graphical part

SOA Services
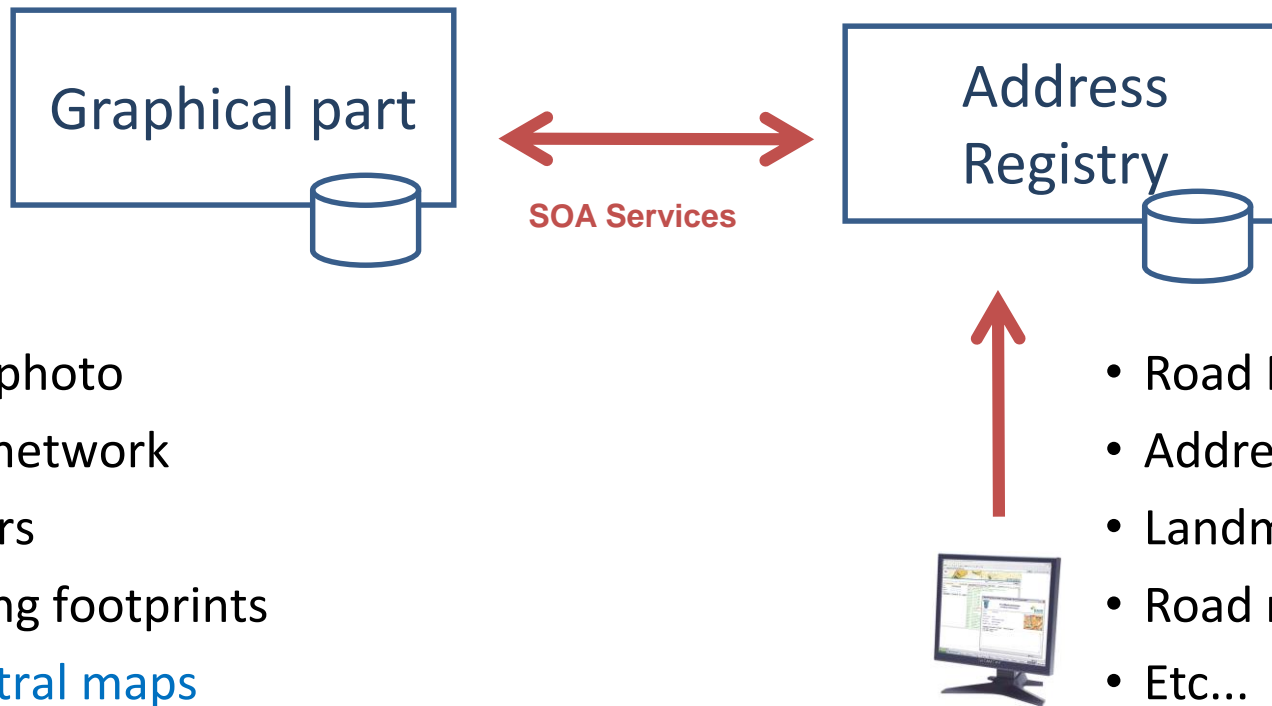
Address Registry

- Orthophoto
- Road network
- Borders
- Building footprints
- Cadastral maps
- Topographic maps vectors
- Points with coordinates
- etc …

Address Register Aplication

- Road Names
- Address Numbers
- Landmarks
- Road name signs
- Etc…

Address Register interface

Graphical part

Textual part

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Data collection, preparatory work

- A0 maps (900) - to identify the start and end of road

- Maps A3 (110,000) - collection of entrances of objects in the field

- Five regional training sessions held

- Preparation of manuals of addressing and data collection

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Unit / http://www.kca-ks.org/
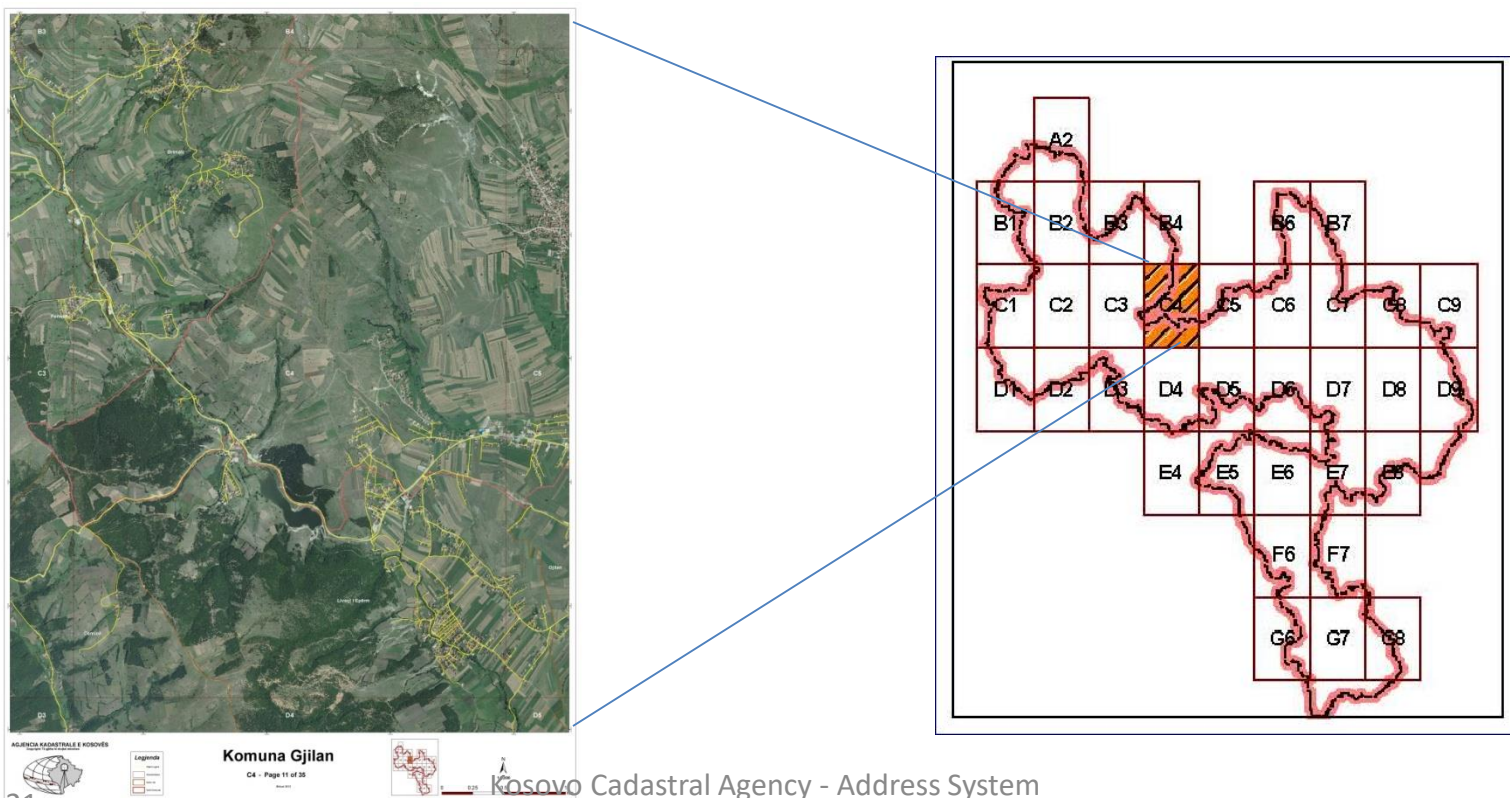
Data collection and digitization in ARIS

1. **About 22,000 street identified and digitized in ARIS (start, end, code)**

2. **Are digitized over 420,000 buildings entrances throughout Kosovo**
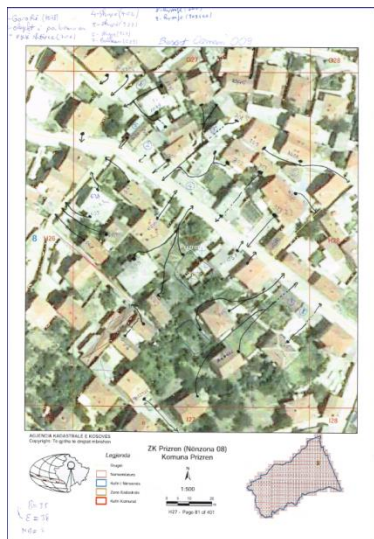
CITIZEN INFORMATION FOR NEW ADDRESS

Purpose: Informing citizens / institutions for official and unified addresses and linking with other state registers

✓ Importance of signalization

- Informing Citizens about New Addresses

- Use of new addresses from third parties - courts, taxes, KEDS, Post Office etc.

- Connection with other state registers

- Pilot in Shtime: How did the address fulfillment?

- Dissemination of Personal Documents through Post

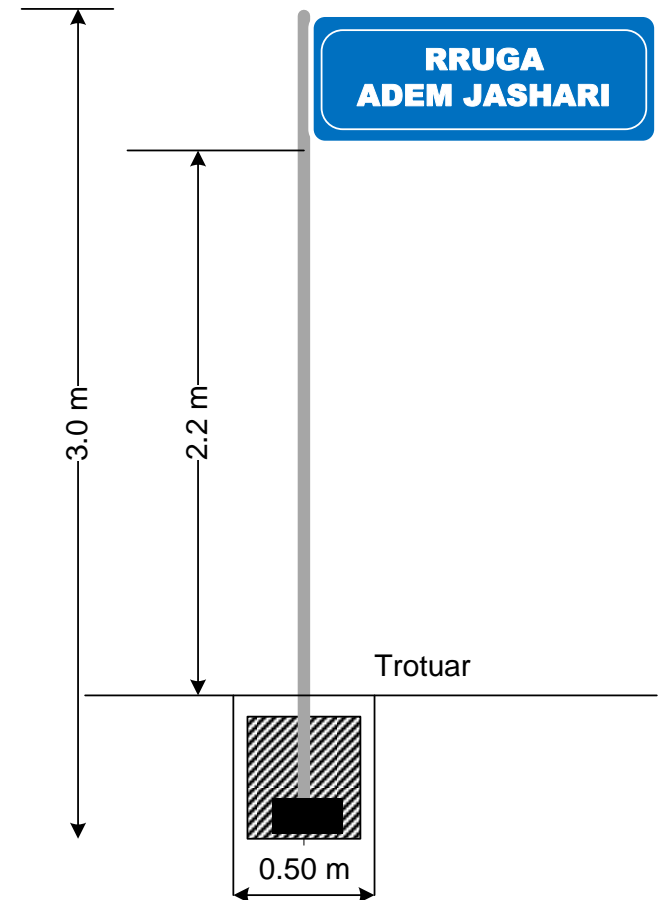- Other communal services faster and more qualitative

Address signs status

- In 31 municipalities the installation of road name signs is completed;
- In 12 municipalities are completed the installation of address number signs;

60 - 100 cm

25 cm

1 cm

SHESHI/TRG./MED. HASAN PRISHTINA

RRUGA ADEM JASHARI

3.0 m

2.2 m

Trotuar

0.50 m

Kosovo Cadastral Agency - Address System Unit / http://www.kca-ks.org/
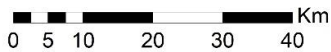
ROAD NAME STATUS

Legend:

	Named	33
	In proces	1
	Unnamed	4

ROAD NAME SIGNS STATUS

Legend:
- Installed — 29
- In proces — 1
- Not installed — 8

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ADDRESS NUMBER SIGNS STATUS

Legend:

Installed	11
In proces	1
Planned	6
Uninstalled	20

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Road updating
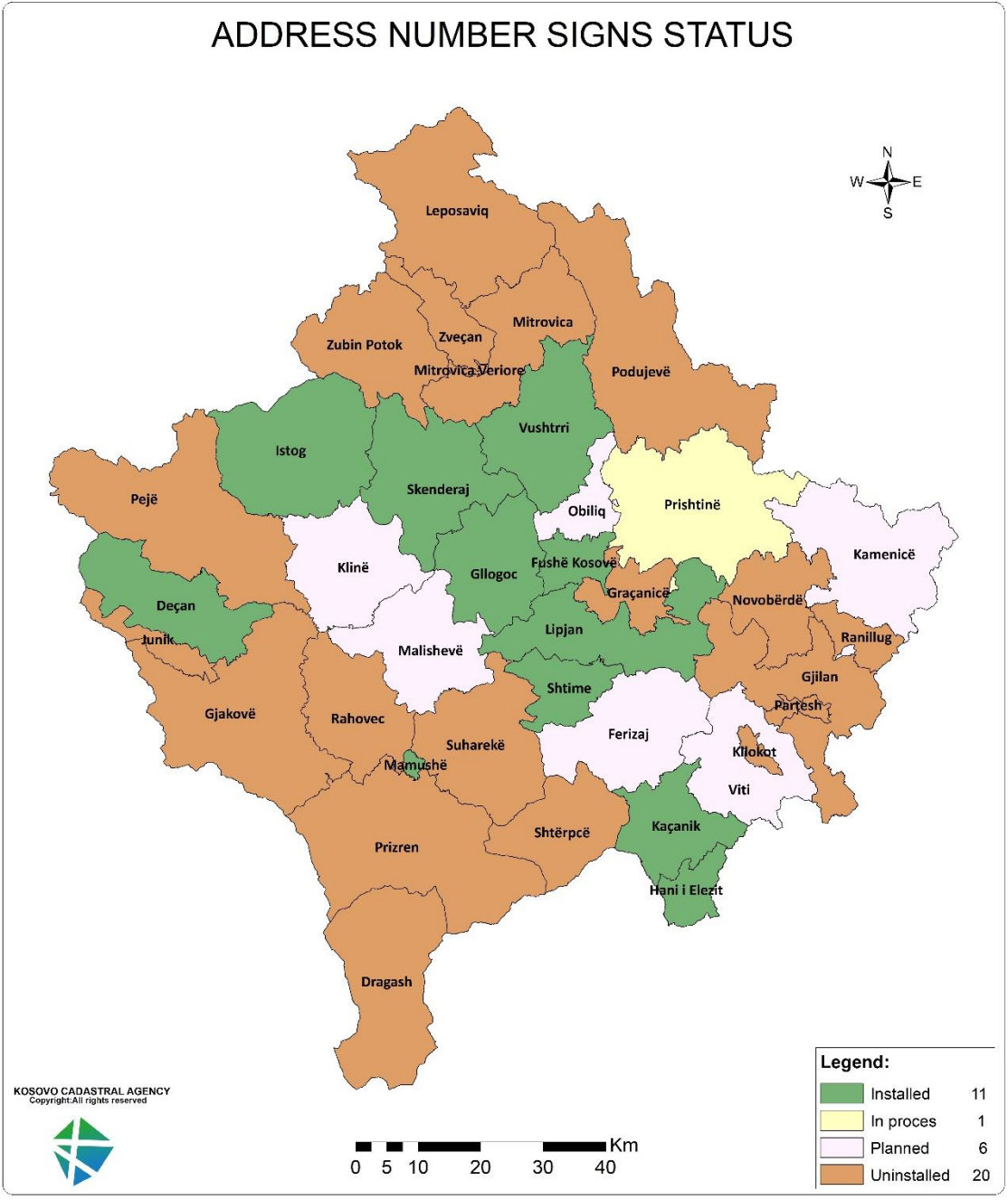
Kosovo Cadastral Agency - Address System Unit / http://www.kca-ks.org/

Address Data Dissemination

- NSDI framework

- KCA Geoportal & Metadata System:
    - Discovery
    - View
    - Download
    - Data service

- Civil Registry Agency (CRA)

- Government Ministries

- Public enterprises Banks

- Courts

- Kosovo Agency of Statistics

- Post and Telecom of Kosovo;

- Police;

- Emergency;

- Firefighters;

- Central Election Commission;

- Etc…

Address data usage

- Through Geoportal

- Linking the address database with other institutions databases

  (CRA, KEDS, Banks, Courts, Water utilities, CEC etc..)

- Installation of street name signs and entrance numbers signs,

- Through web services

- Distribution of official addresses to the more than 16

  institutions

- Distribution of official addresses to the international navigation

  companies, TomTom, OpenStreetMap, HereWeGo Maps.

National Geoportal
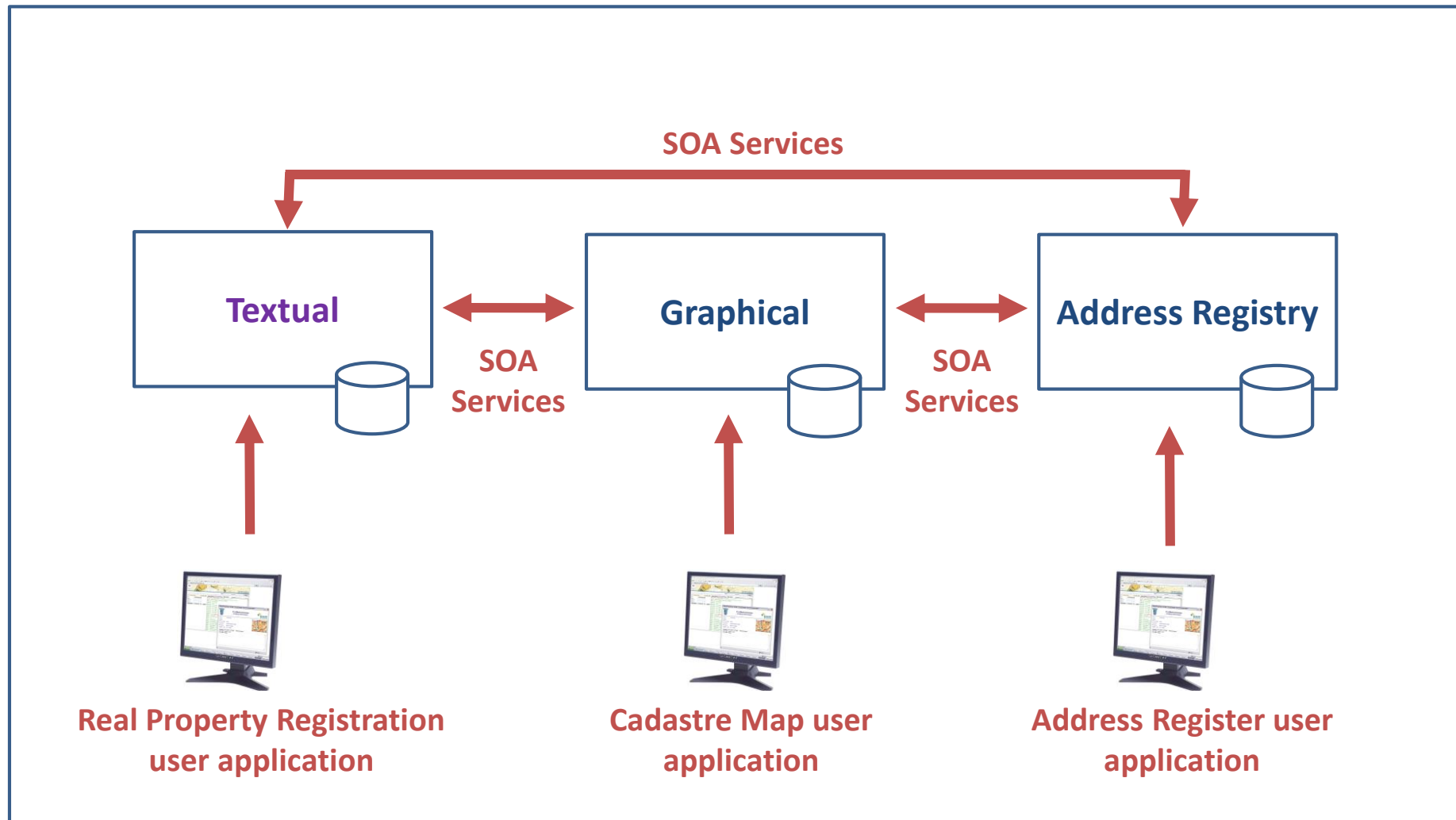
www.geoportal.rks-gov.net

Use of Addresses in property register KCLIS

- Cadastral parcels

- Residential units

- Commercial units

- Public buildings

- Groups of buildings (campus, farm)

- Points of Interest / Cultural objects

- Right-holders (ownership, partial ownership, right of servitude, utilities)

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Linking the Property Register with Address Registry

SOA Services

| **Textual** | SOA Services | **Graphical** | SOA Services | **Address Registry** |

Real Property Registration user application

Cadastre Map user application

Address Register user application

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Linking the addresses with CRA

✓ Memorandum of Understanding with CRA

✓ The registration form for citizens

✓ Sharing the form along with the address number

✓ Sharing the form along with the address number

DRAFT FORM CRA on ADDRESS REGISTRATION CITIZENS

1 Personal data of applicant	
Name	
Surname	
Data of birth (dd-mm-yyyy)	
Place of birth	
PIN*	

2 Date of address change	
Date	

3 Previous address	
Streetname + nr.	
Village	
Municipality	

4 New address	
Streetname + nr.	
Village	
Municipality	
Renting or owning property	Renting / owning (place circle around correct answer)
Residing* (see 6)	Yes / No (place circle around correct answer)

5 Persons moving to new address with applicant				
Name	Surname	Date of birth (dd-mm-yyyy)	Place of birth	PIN (passport-IDcard)*

6 * Name and approval of tenant/owner when applicant will take residence in already occupied house/apartment				
Name	Surname	Date of birth (dd-mm-yyyy)	Place of birth	PIN (passport-IDcard)
Date		Signature		

7 Signature of applicant		
Date		Signature

Linking the addresses with CRA data model

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Unit / http://www.kca-ks.org/
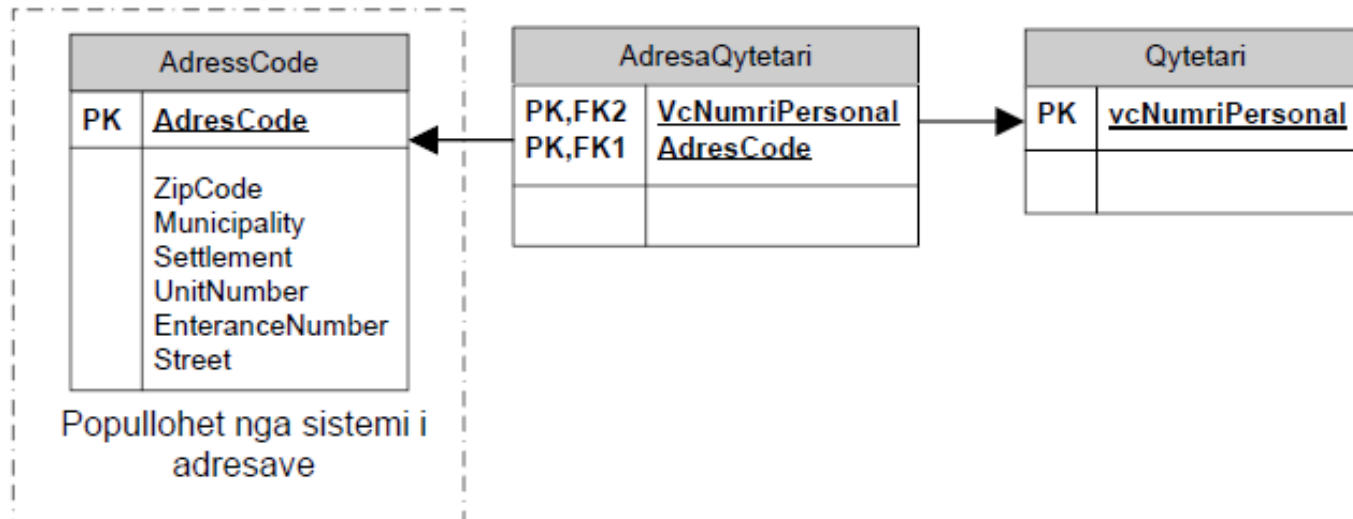
The benefits of the address system at KAS

- The address system will support GIS activities in georeferencing statistical data,

- They are necessary to increase the quality of data from Statistical Surveys and Data from Registrations,

- Orientation of Staff during Surveys and Fieldwork for Population / Agriculture Census.

- Enables the connection of statistical data to different registers

- Visualization of statistical data through maps etc.

Use of Address System in Statistical Surveys and Upcoming Population Census

Unik code	Name and number of road	Municipality	X	Y
2210016219	SKËNDERBEU 219	Shtime	7501710	4700309
2210016217	SKËNDERBEU 217	Shtime	7501744	4700327
2210016215	SKËNDERBEU 215	Shtime	7501781	4700365
2210016379	SKËNDERBEU 379	Shtime	7501721	4700716
2210016377	SKËNDERBEU 377	Shtime	7501745	4700733
2210016381	SKËNDERBEU 381	Shtime	7501771	4700753

2210016219		
22	100162	219
Municipal code	Road name code	House number

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The enumeration circuits used during the 2011 census and statistical surveys.

Registry circles with system addresses

Legend:
- ☐ Buildings
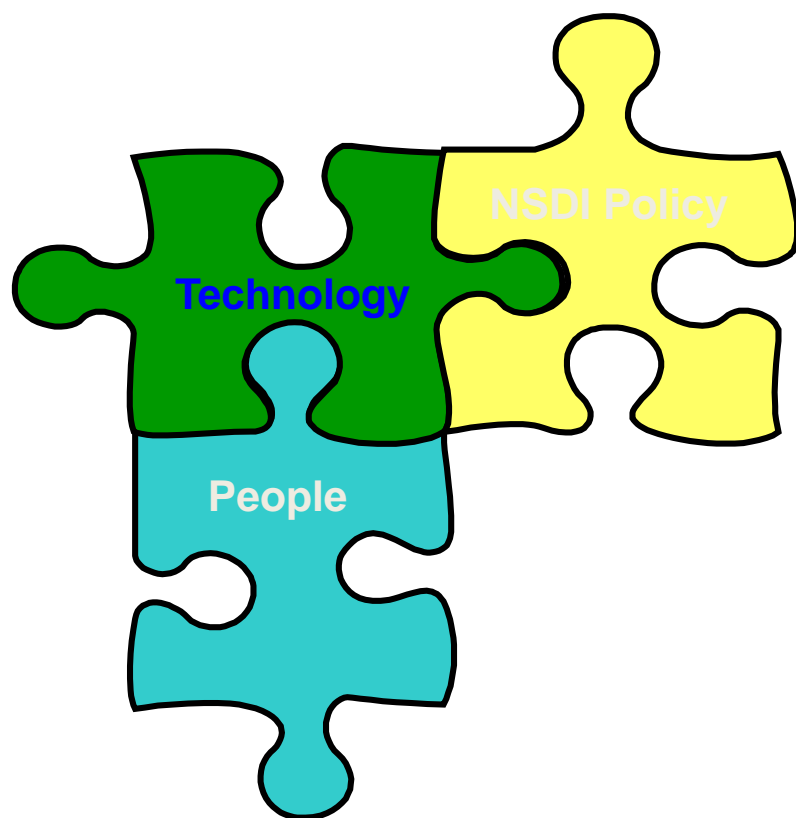- ▭ Enumeration Areas 004
- ☐ Others EA-s
- ✚ Health Institutions
- ⚑ Primary School

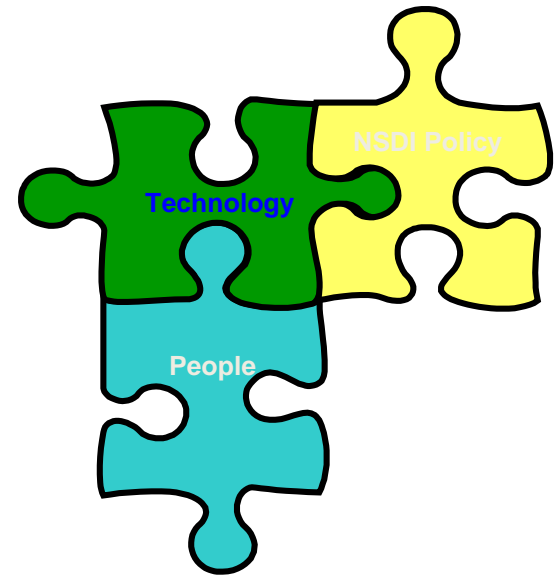Kosovo Cadastral Agency - Address System Unit / http://www.kca-ks.org/

…if we have access to the *right* data in the *right* format to take action at the *right* time…

– *"Sharing data is the first step, but only when we really share people, knowledge, and resources will we achieve our ambitious goals."*

Alessandro Annoni:

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THANK YOU FOR YOUR ATTENTION