



# Extending limits of space



**Geodetski zavod Celje**



## Let us introduce

International company based in Slovenia with 55 years of experience providing consulting and technical assistance services to public sector financed programmes.

Specialist in spatial and rural development programming, implementation, monitoring and evaluation and in the provision of technical assistance for capacity building of national and local institutions promoting spatial, agricultural and rural development.

The Company has managed numerous projects and programs in Slovenia and the Western Balkans.



## Let us introduce

One of the leading providers of technical assistance to many Ministries in Slovenia and within potential candidates and candidate countries in the Balkans.

Leading contractor to the Slovenian Paying Agency for all IACS controls in Slovenia including Agri-Environmental measures, Cross-compliance, animal controls and all area based subsidies.

*Our flexibility towards users and clients  
is a guarantee for successful work.*



## Our most important clients and partners

- **NATIONAL AND EUROPEAN AGENCIES:** Geodetska uprava RS, Direkcija RS za ceste, Ministrstvo za okolje in prostor, Ministrstvo za kmetijstvo, gozdarstvo in prehrano, Ministrstvo za gospodarstvo, Agencija za kmetijske trge in razvoj podeželja, Geodetski inštitut, Fakulteta za gradbeništvo in geodezijo Ljubljana, Statistični urad RS, EUROSTAT, Geodetska uprava Crne gore, EC JRC, EC IPA...
- **MUNICIPALITIES:** MO Celje, Gorišnica, Kidričevo, Mozirje, Nazarje, Ljubno, Laško, Kozje, Ptuj, Podčetrtek...
- **COMPANIES:** Družba za avtoceste RS, Državna direkcija za ceste, Regionalna razvojna agencija Celje, Regionalna razvojna agencija Posavje, Geodetski zavod Slovenije, DFG Consluting, Ljubljanski urbanistični zavod, Elektro Celje, ...





## Advisory services

We have in-house competence, skills and capacity within the areas of consultancy and training, IT support, development and implementation, establishment of the system, guidance and execution of registration in the field, data conversion

- Professionally trained specialists with experiences both domestically and abroad in the field of consultancy
- Know-how and development of quality assurance and quality consultancy
- Approach based on extensive collective expertise gained during many years of work in related works
- The most important features that make our approach distinctive are:
  - setting priorities,
  - workshops as part of the methodology development process,
  - capacity building,
  - day to day work with client,
  - study visits,
  - technical support and consultations,
  - pool of short term experts
  - backstopping
  - and regional experience



## Control of agricultural subsidies

For all 4 parts of control:

- On the spot control (field inspection and CwRS)
- Cross compliance
- Agri Environmental measures
- Animal welfare

GZC is the leading partner.



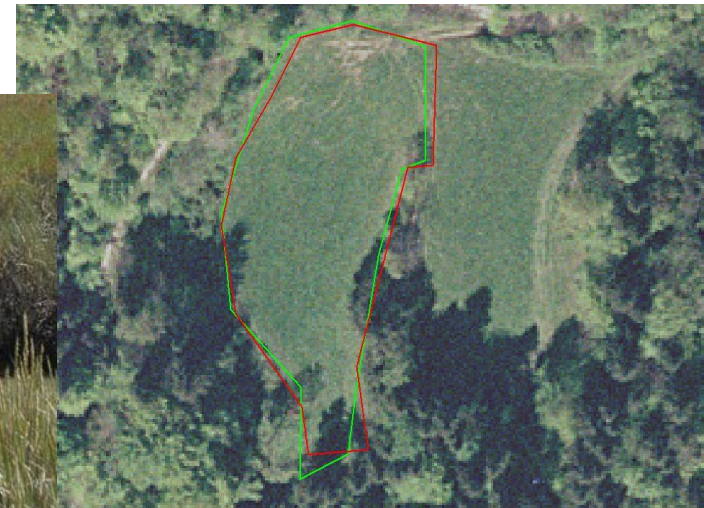
## FIELD INSPECTION

- control of areas and animals

Equipment: laptop computer, printer, GPS reciever, digital camera...

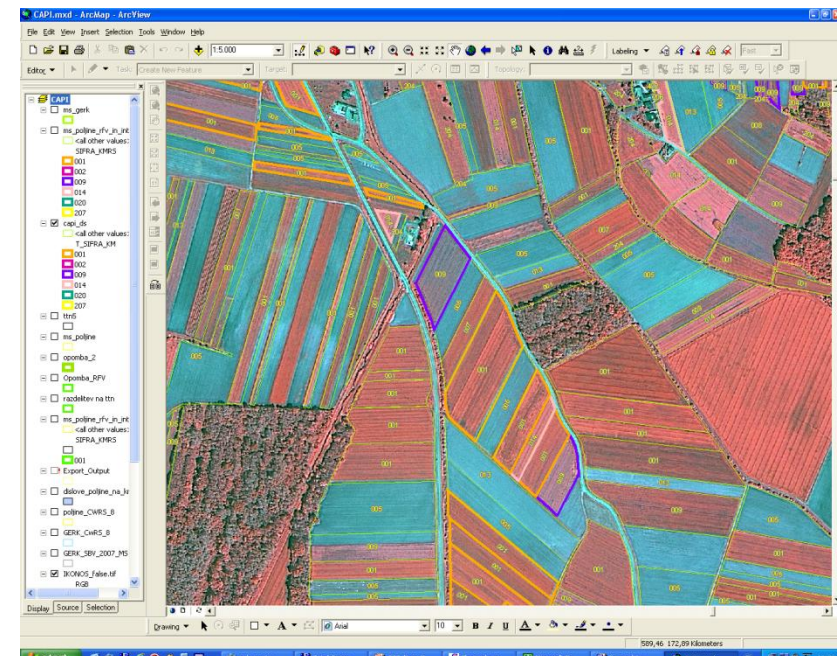


Field work



## CONTROL WITH REMOTE SENSING (CwRS)

- Five sites for CwrRS, one with VHR +HR images - testisng automatic classification
- Ikonos and Quickbird VHR satellite images, SPOT 5 HR images
- Control is a combination of **photo-interpretation** (*true-colour, false- colour*) and **rapid field visits.**

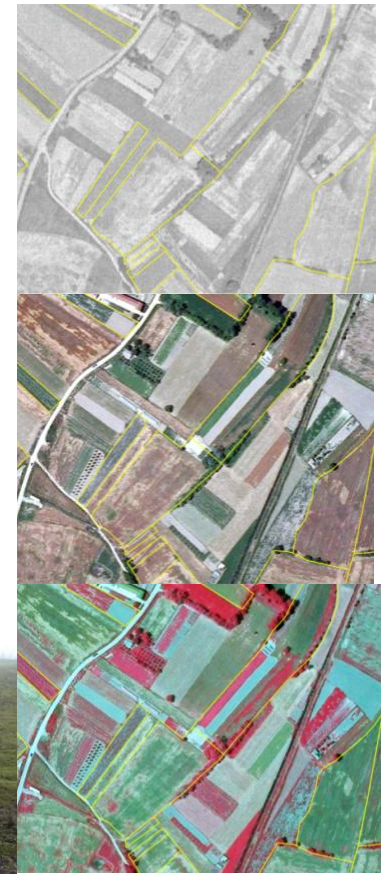




## CwRS pilot study

Buyer: EC JRC

- One site in Croatia, one site in Macedonia
- GeoEye VHR satellite images, RapidEye HR images
- Extensive study on OTS controls in both candidate countries including delivery of technical and organizational recommendations for implementation of each method.





## Land consolidation of agricultural land

Land consolidation of agricultural land **considers:**

- Special conditions of land cultivation due to natural conditions and tradition
- Acts of local community
- Foreseen agricultural production
- Protection of natural and cultural heritage
- Foreseen effect of land consolidation

**We deliver full support to local communities in preparation of project documentation for accessing EU funds.**

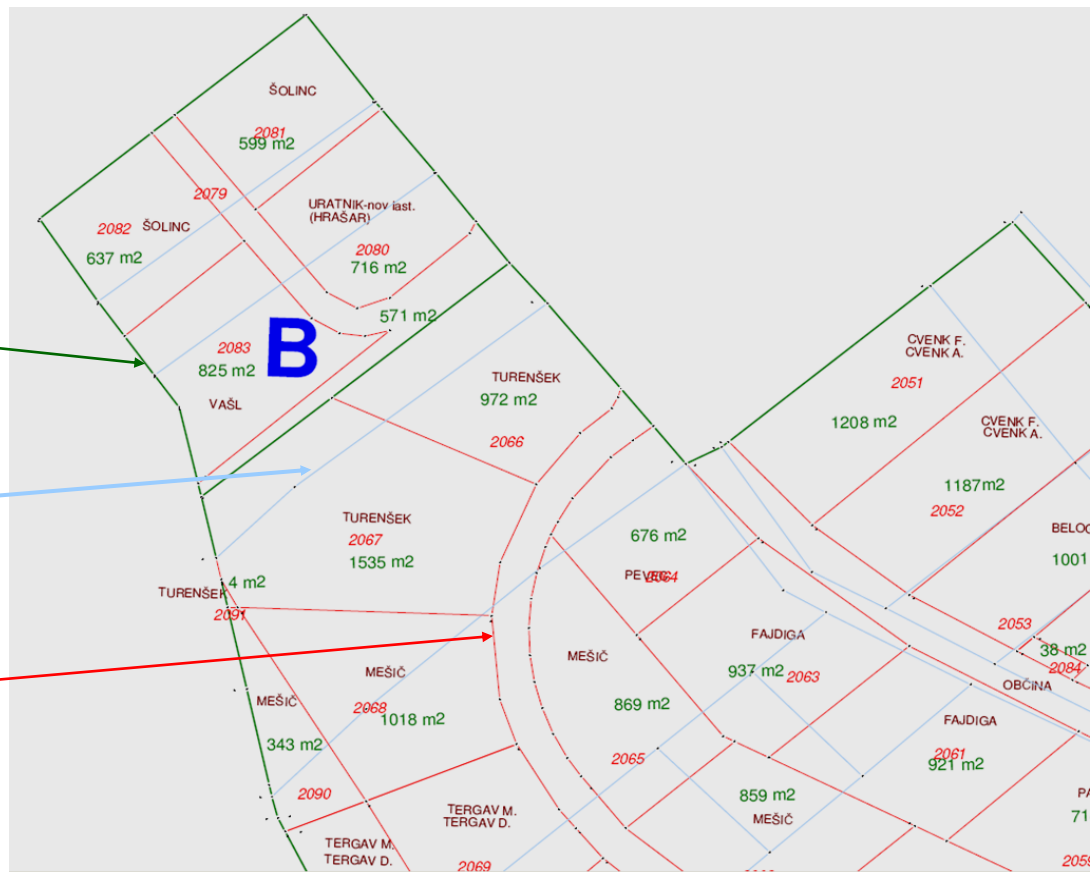
## Land consolidations of built land

Contractual land consolidation of built land – new parcels are defined by development plan

Outer boundary of land consolidation area

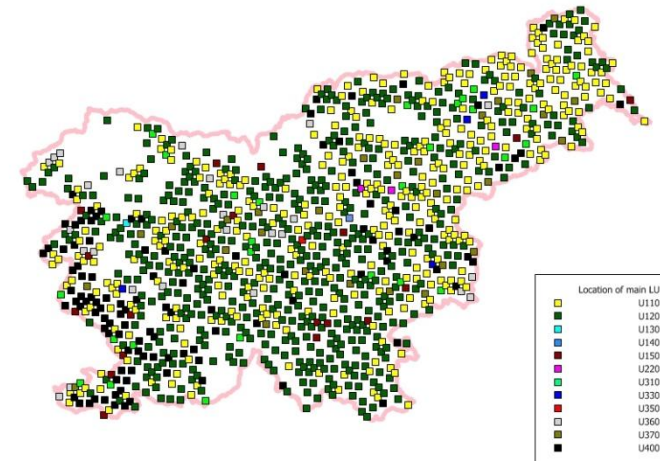
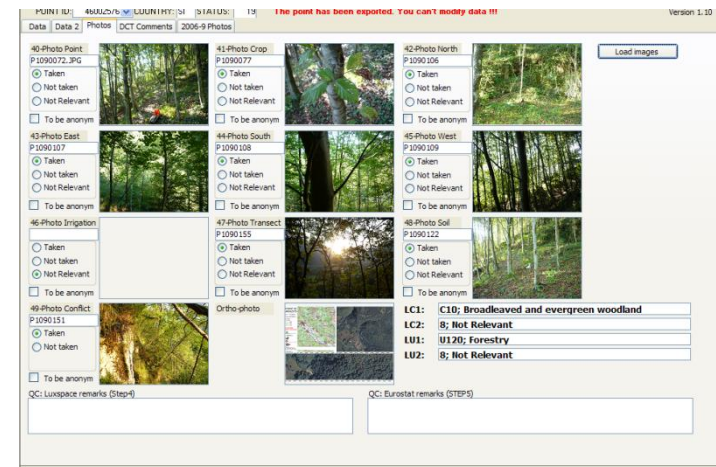
Old parcel boundaries

New parcel boundaries

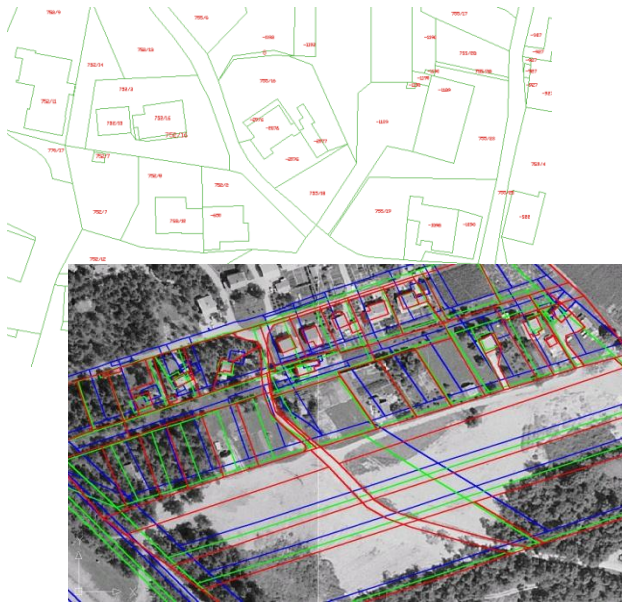


# Statistical services

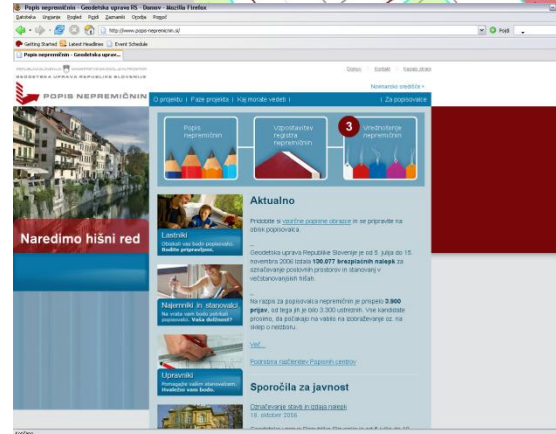
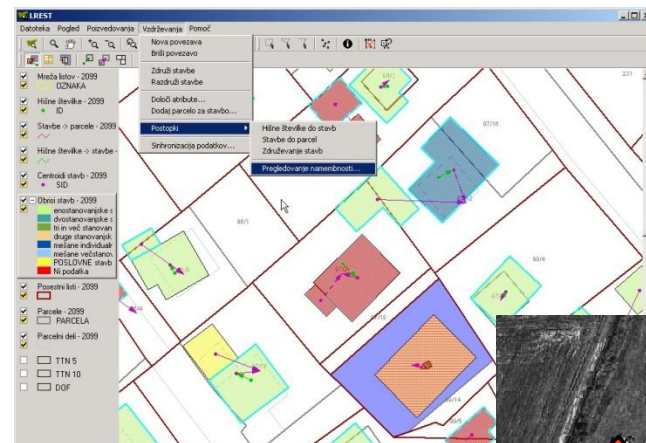
- collection of agri-environmental data
- land use and land cover
- crop estimation
- real estate census
- population and housing census



# REAL-ESTATE AND SPATIAL DATA ACQUISITION



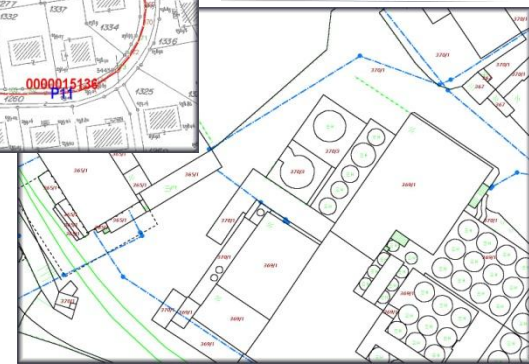
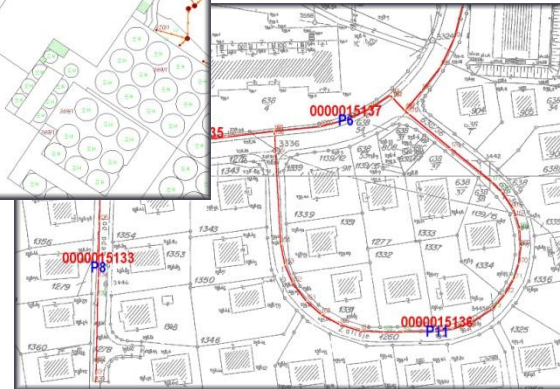
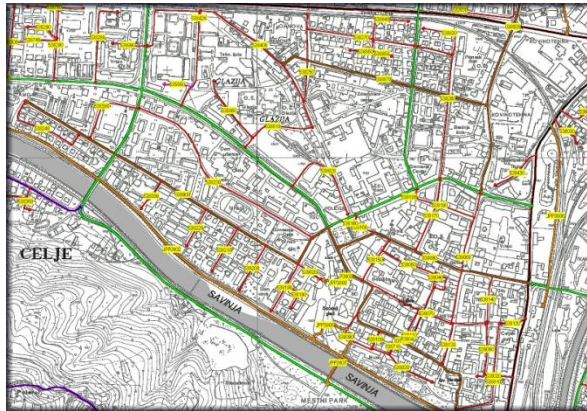
Cadastre, transformations,  
digital land cadastre,  
new cadastre surveys



Building cadastre,  
real estate census



# Infrastructure asset management



Accurate and up-to-date data about road network and infrastructure are basis for quality and coordinated realization of maintenance works and building of new infrastructure.

# Services for local communities

## Economic development

Spatial data supports community redevelopment that revitalizes the economic and environmental health of neighborhoods.

Leading partner in preparation of conceptual and implementation design documentation and providing assistance to local community in assessing EU funds.

Studies of development strategies of bussines/industrial zones, with emphasize on spatial development, support on marketing of space.



## Services for local communities

### Urban and spatial development

No matter how large or small your community, planners must deal with spatial information: parcel, zoning and land use data, addresses, transportation networks, and housing stock.

Our services will help you reach your agency mission while doing more and spending less.

Digitalization and evaluation of spatial plans, connecting with other datasets

Assisting local communities in adoption of spatial acts

- support to process
- technical execution
- cartography
- substantive support





## Services for local communities

### Real estate data bases (land and buildings)

- analysis of existing situation
- data collection and evaluation
- simulations of various scenarios
- calculations of real estate values, taxation
- advisory services at preparation legislation bases



## Services for local communities

### Public infrastructure

- analysis of existing situation
- data collection and evaluation
- calculation of values and preparation of amortization plans
- calculations of taxation for infrastructure
- advisory services at preparation of legislation





# Terrestrial laser scanning

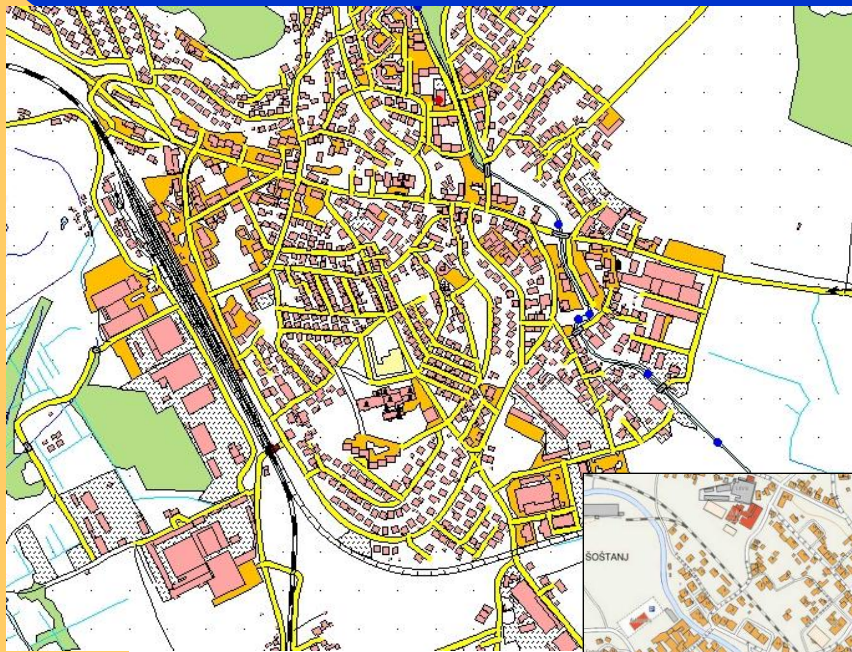
FAST ACQUISITION OF HIGH QUALITY 3D SPATIAL DATA

- Infrastructure surveys
- Monitoring resources
- Historical buildings and monuments
- Topography surveys





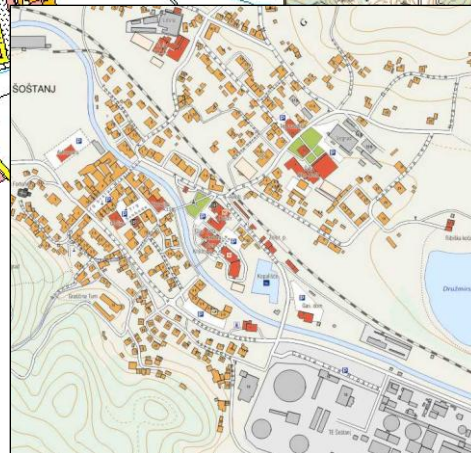
# Topography, cartography, land information systems



Topographic database



City maps,  
tourist maps



3D modeling



## **OTHER geodetic and Spatial related services**

- Land cadastre measurements
- Photogrammetry
- Establishing basic coordinate system
- Horizontal, elevation and geometric grid surveys
- Geodetic technical measurements and control measurements
- Layouts of manufacturing lines in objects
- Layouts of construction profiles and calculating volumes
- Consulting and advising in real-estate transactions
- Court and other expertise services