GIS of the City of Split A modern system for asset management based on GIS technology

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City of Split – basic info

- Split is a Mediterranean city on the eastern shores of the Adriatic Sea, centered around the ancient Roman Palace of the Emperor Diocletian and its bay and port.
- With a population of 178,192 citizens, and a metropolitan area numbering up to 349,314, Split is by far the largest Dalmatian city and the second-largest city of Croatia.
- Spread over a central peninsula and its surroundings, Split's greater area includes the surrounding seaside towns as well.



- 178,192 citizens, live in 705 streets, on 20983 house numbers
- On every house number there is minimum one utility charges bill
- For every bill minimum needed information is Area



- City of Split has 69816 parcels
 - Every parcel has at least on owner and one type of land use
- City of Split has 27447 cadastral building
- And thousands of building permits
- That are regulated by dozens of urban plans

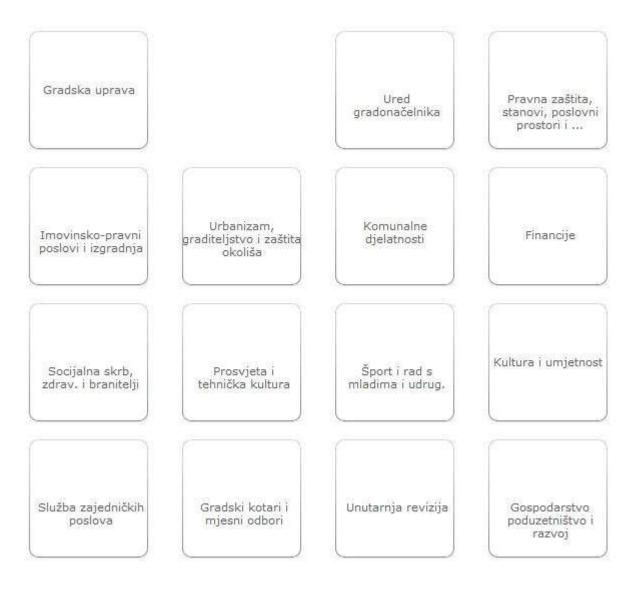


- Utility infrastructure
 - Public lights
 - Water supply
 - Sewer
 - Pipeline
- Public lights

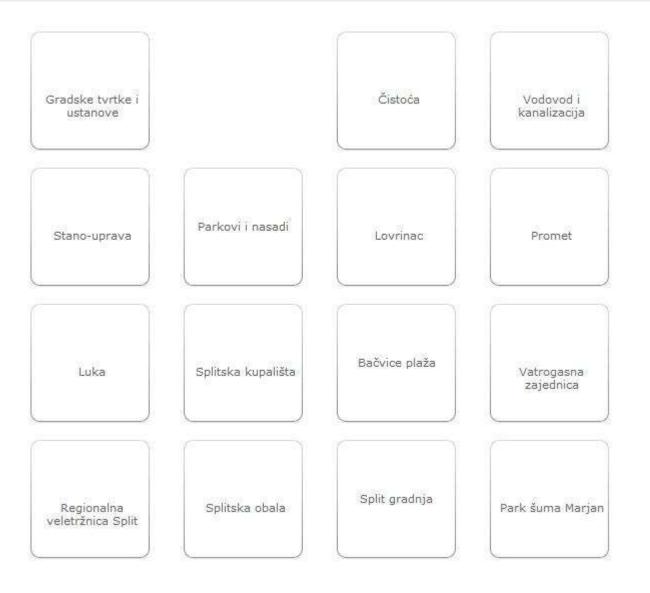
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- 14000 street lighting poles











Baselines

- Collection, preservation, processing, analysis and display of spatial data
- Building unique data structure of GIS Database
- Access to all necessary information in a few steps
- Connect the city offices and departments into a unified whole, which enables the timely exchange of information



Users

• The primary user group

- City administration officials authorized to maintain and use SUI-ST
- City administration officials who need access to data SUI-ST system in accordance with their powers

Secondary User Group

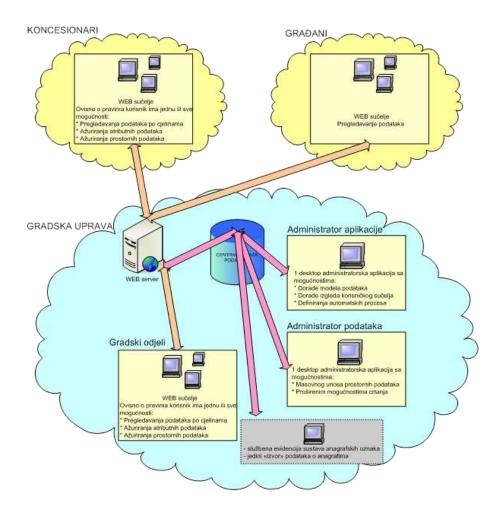
- Companies in majority or majority-owned by the city that provide utility services
- Independent companies, and other individuals or entities entrusted with the performance of the domain utility activities (concessionaires)
- State, county, or other institutions that need access to SUI-ST

• Tertiary user group

- Citizens of Split
- External individuals and businesses that want to be informed through the Internet for information and issues contained in the SUI-ST system.

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System Architecture





Fundamental questions



How to acquire the necessary information to solve common problems, issues and concerns?

How and where to allow development?

Restrictions must be taken into account?

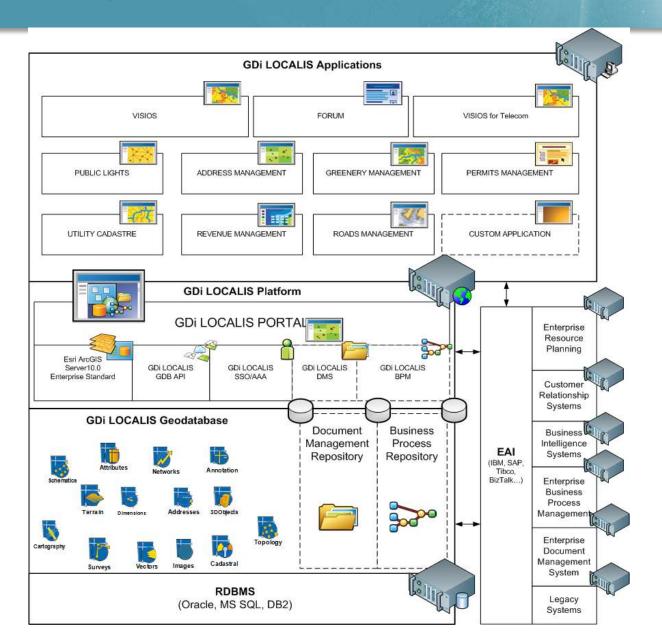


Deliverables

- Collecting, processing, conversion and GIS database structure
- Web Browser for the City Administration (Intranet)
- Web browser for concessionaires of public lighting (Internet)
- Web browser for concessionaires green space (Internet)
- Web browser to the public (Internet)
- Integration with existing business systems
- Interoperable services



Project implementation process – GDi LOCALIS





Project implementation process

- The basic elements of GDi LOCALIS software landscape consists of:
- GDi LOCALIS GEODATABASE,
- GDI LOCALIS Platform and
- GDi LOCALIS Applications.



Geodatabase - basemaps

- Digital Orthophoto Map (DOF)
- Croatian Base Map (HOK)
- Digital Relief Model
- Topographic Map (TK25)
- Data from Graphical Base of Regional Data Register
- Streets and house numbers



Geodatabase - Landuse

- Cadastral Plans in Digital and Raster Format
- Urban plans
- Utility data
- Connection to existing business apps



Geodatabase – technical database

- Cadastral database of Public lights
- Cadastral database of Greenery



Geographic Information System

- Data management

 GDi LOCALIS Public Lights
 GDi LOCALIS Greenery
- Administration
 GDi LOCALIS Platform
- Data sharing
 - GDi LOCALIS Visios Basic (Web GIS Internet) and Standard (Web GIS Intranet)



Geographic Information System



- Users:
 - Administrators
 - Concessionaire
 - Read only internal users
 - Citizens



GDi LOCALIS Public Lights

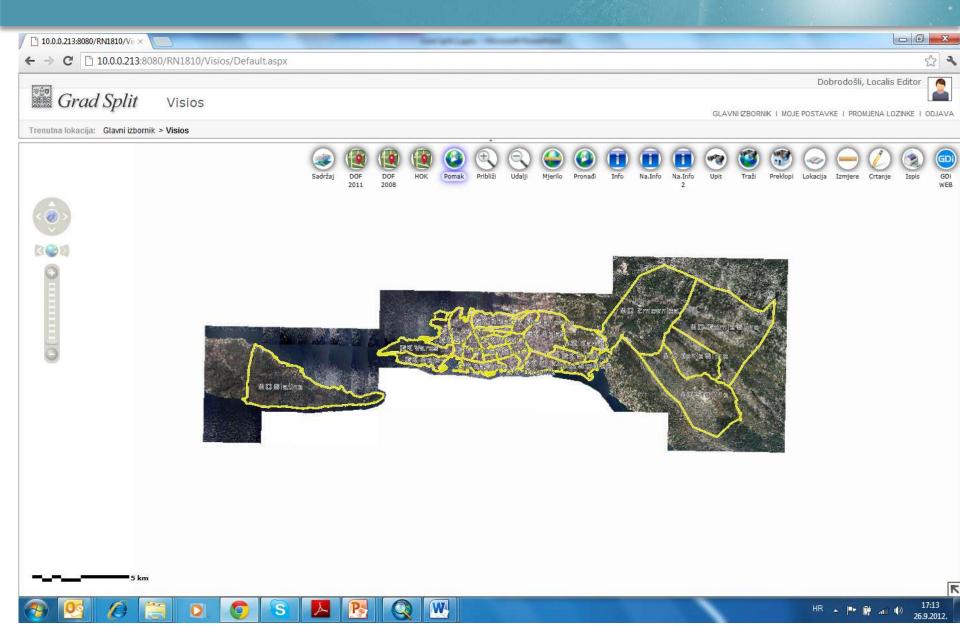
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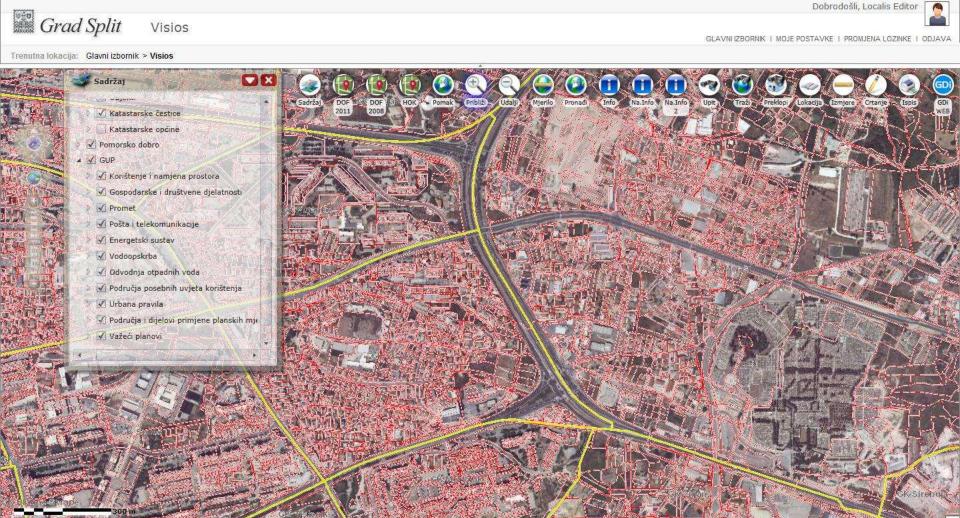
GDi LOCALIS Public Lights

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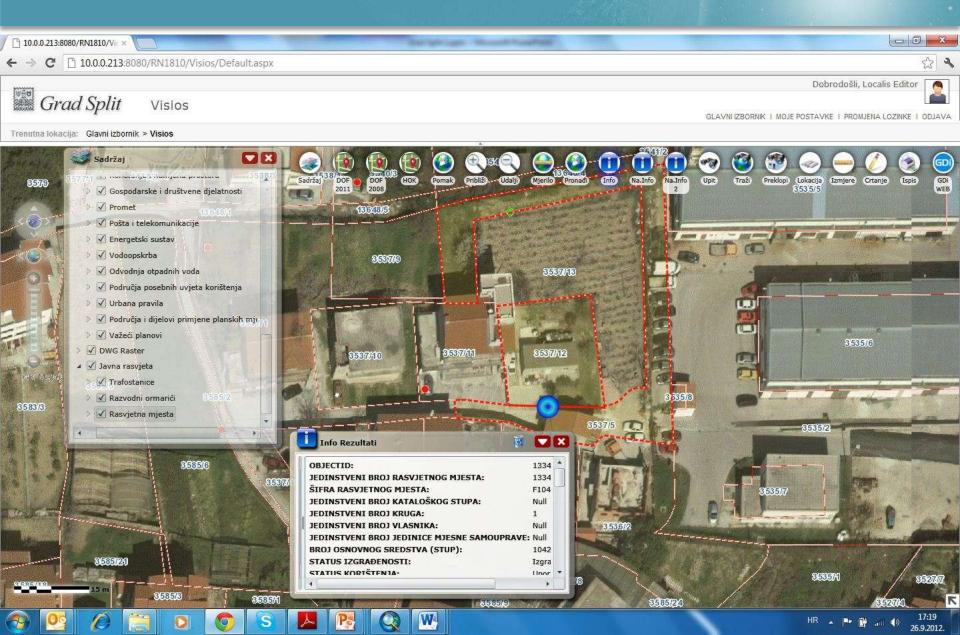
GDi LOCALIS Web GIS Portal - Visios



GDi LOCALIS Web GIS Portal - Visios



GDi LOCALIS Web GIS Portal - Visios



System Interoperability - Web GIS applications



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Upit u predmete komunakne naknade

Klasa predmeta: Broj objekta:	R E P U B L I K Á H F V A T S K A DUBROVAČKO-NERETVANSKA ŽUPANIJA GRAD DUBROVAČKO-NERETVANSKA ŽUPANIJA U pravni odjel za promet i komunalne poslove
Kontrolni broj: 6129	KLASA: UP/I-363-03/06-04/9999 UKRBOJ: 2117/01-03-01-06-1 Dubrovnik, 15.02.2006. Upravni odjel za promat i komunalne pomlove Grada Dubrovnika na temelju članka 9. Odloko o komunalnoj naknadi ("žlužbeni glamnik Grada Dubrovnika" broj 9/05. i 1/06.) u postupku utvrđivanja obveze plačanja komunalne naknade, donomi
Pronadi	R J E Š E H J E 1. Utvrđuje se da je obveznik plačnija komunalne naknade za stazbeni prostor forsizne površine 99,99 m2 u naselju ubzbovnik, i to počevši od 01.01.2005. Wizna komunalne naknade po m2 obračunske površine stazbenog prostora utvrđuje se u iznova 00,99 km, pa njezečan visina komunalne naknade iznovi 99,90 km. 1. Otvrđeni njezečni iznos komunalne naknade obveznik je dužan plačati njezečno najkamnje do 15-tog u mjezecu za tekući mjezecu v korizt proračuna trada ubrovnika na majkamnje do 15-tog u mjezecu za tekući mjezecu v korizt proračuna konka zatezna kamata i iznose koji nizu plačeni u propisanom roku obračunava se zakonake zatezna kamata i iznose koji nizu plačeni u propisanom roku obračunava se zakonake zatezna kamata i iznose koji nizu plačeni u propisanom roku obračunava se zakonake dobi. 3. Svaku promjezu o korištenju stana obveznik je dužan prijaviti u roku od 15 dana dana. Nakon pravnostni ovog tješenje prestaje vrijediti tješenje ovog Upravnog odjela KLASA: UD/1-363-03/05-01/999, UKBRAJ: 2117/01-03/2-05-1 od 16.11.2005. D brazložen je

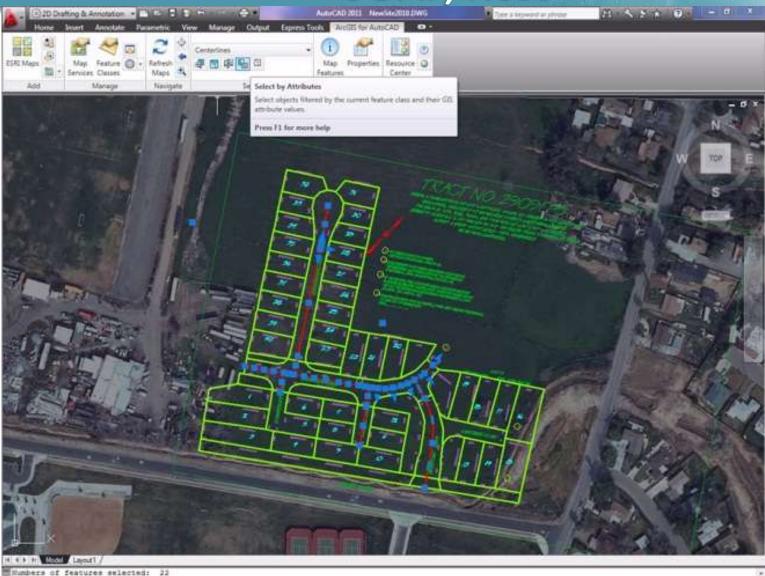
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System Interoperability – ArcGIS Server Services SOAP, Rest



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Comando

Command:

System Interoperability – other Web services

- WMS
- KML
- WFS
- WMTS



Thank You for your attention! vojkan.gavrilovic@gdi.net



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