

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.



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City of Split – detailed info

- 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



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City of Split – detailed info

- 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



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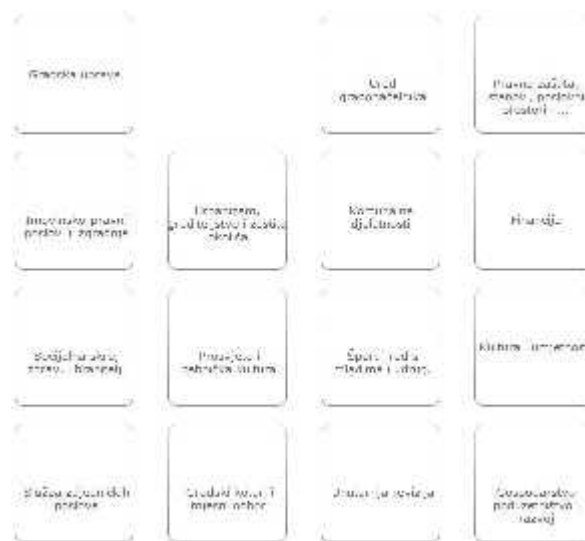
City of Split – detailed info

- Utility infrastructure
 - Public lights
 - Water supply
 - Sewer
 - Pipeline
 - ...
- Public lights
 - 14000 street lighting poles



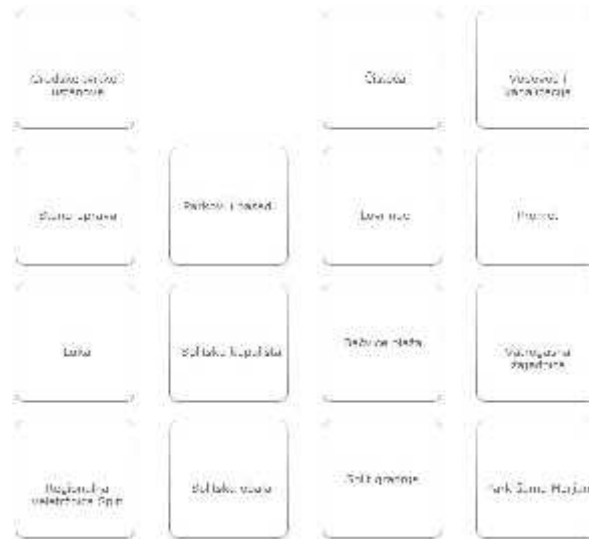
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City of Split – detailed info



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City of Split – detailed info



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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



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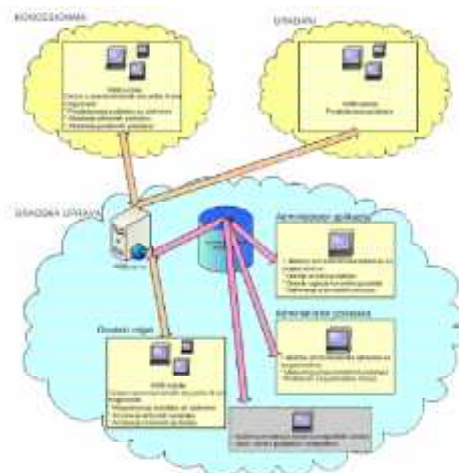
Users

- **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



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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?*



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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



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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



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Geodatabase - Landuse

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



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Geodatabase – technical database

- Cadastral database of Public lights
- Cadastral database of Greenery



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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)



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Geographic Information System



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



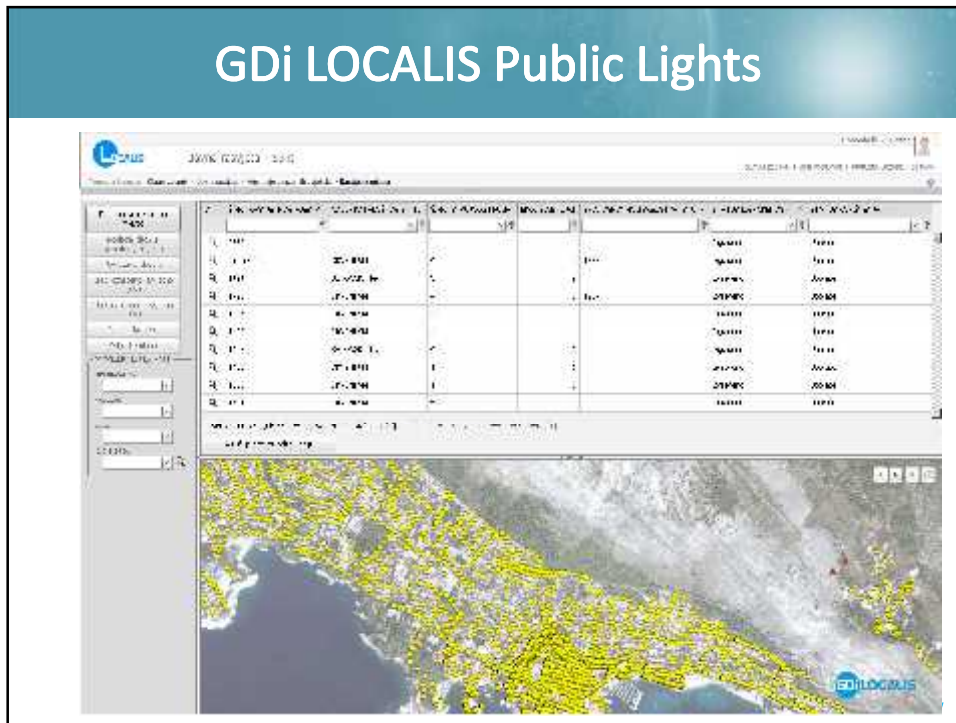
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GDi LOCALIS Public Lights

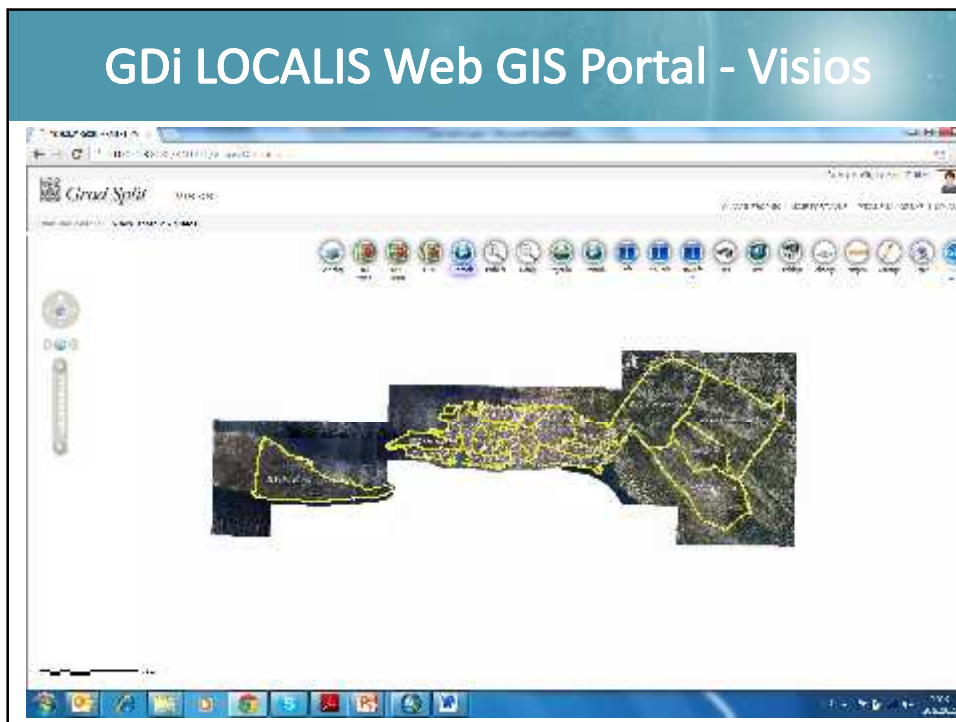


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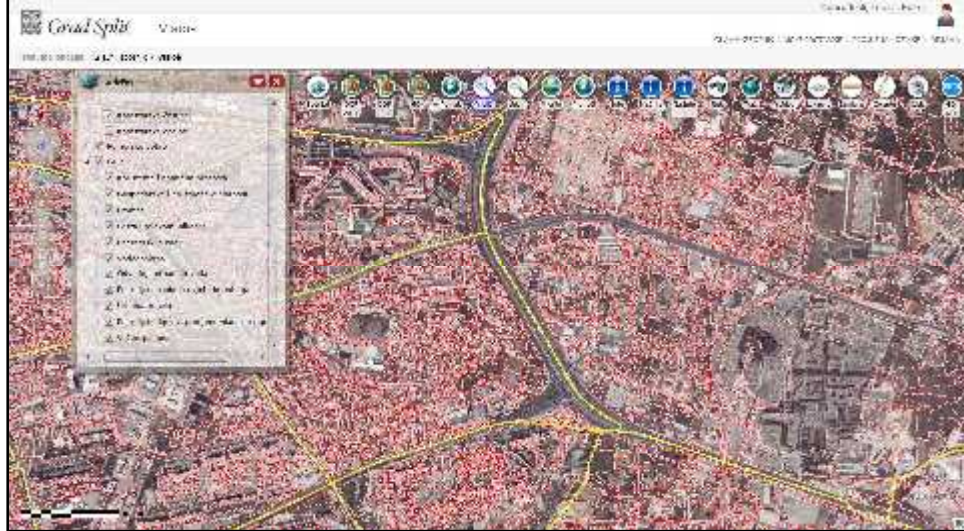
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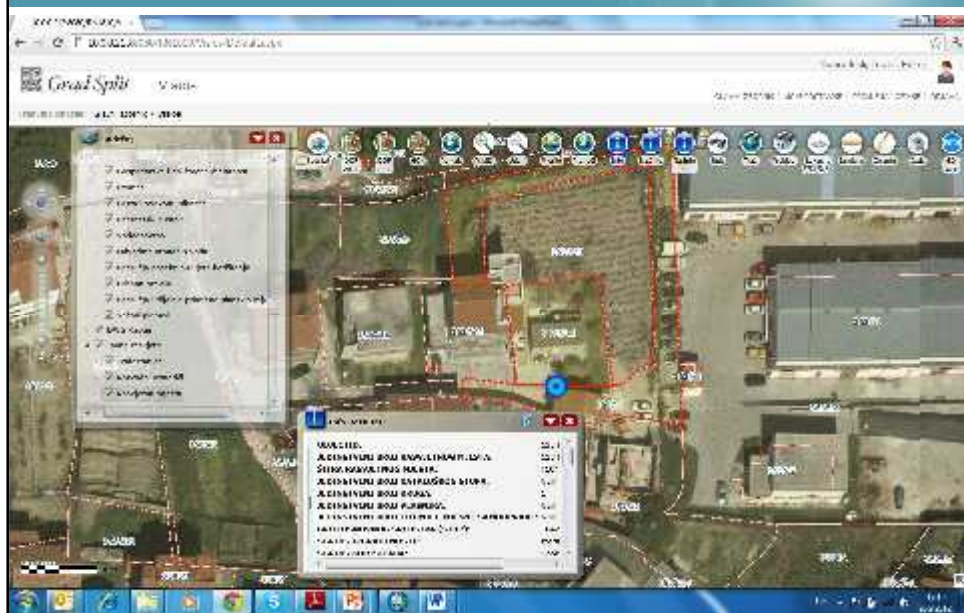
GDi LOCALIS Web GIS Portal - Visios



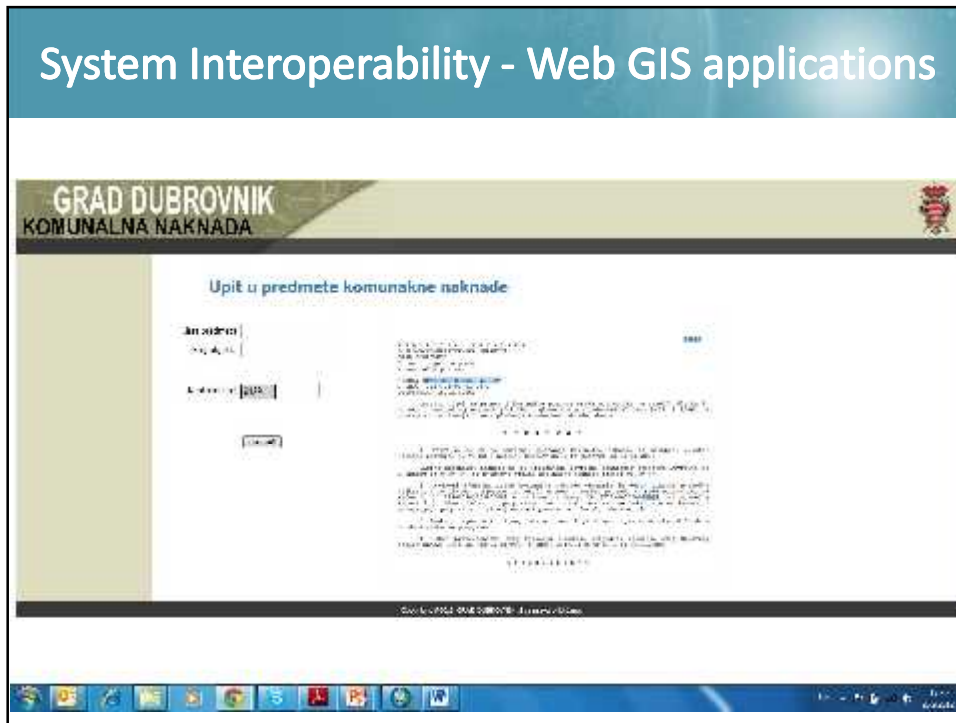
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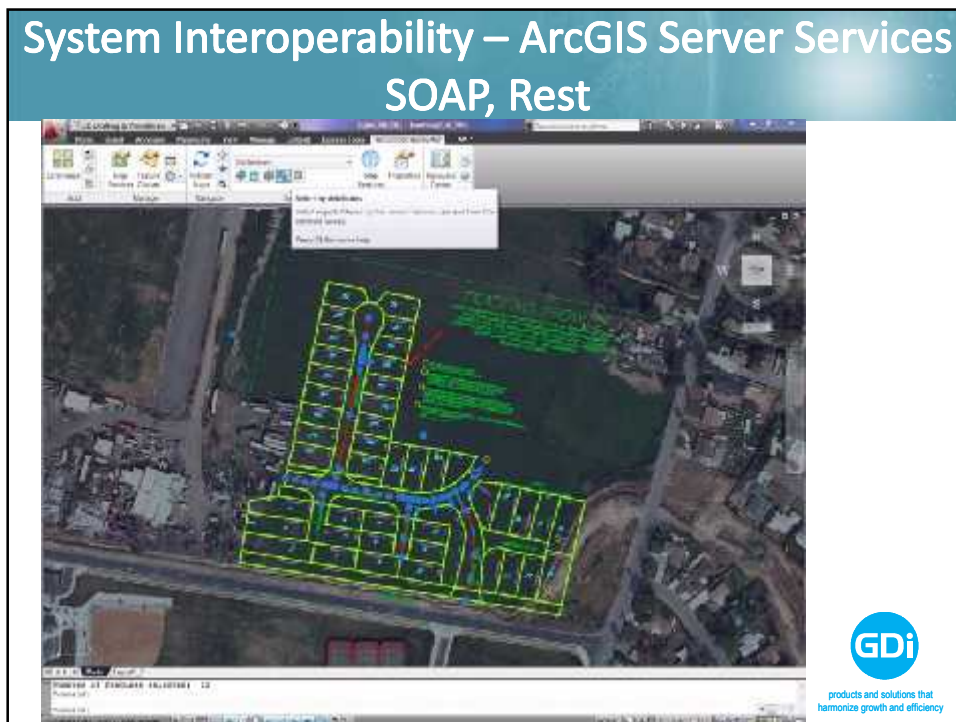
GDi LOCALIS Web GIS Portal - Visios



System Interoperability - Web GIS applications



System Interoperability – ArcGIS Server Services SOAP, Rest



System Interoperability – other Web services

- WMS
- KML
- WFS
- WMTS



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Thank You for your attention!

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