



FIG Working Week 2012

Rome, Italy 6–10 May

Knowing to:

Manage the territory
Protect the environment
Evaluate the cultural heritage



Local Spatial Data Infrastructure as a service for Efficient Spatial Management

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Introduction

- Cities are complex, networked and continuously changing social ecosystems
- Major challenge is urbanisation (ecological, economic and social problems)
- Efficient management (employment, sustainable development, inclusion and quality of life)
- Spatial data plays a crucial role
- SDI at global, national, and local level



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(N)SDI in Croatia

- First activities started in the in the late 90's and early 2000's
- 2007 new Law on State Survey and the Real Estate Cadastre
- NSDI framework (in line with INSPIRE)
- GeoPortal
- NSDI web page
- Preparation of new Law on NSDI
- Challenge Top-down vs. Bottom up approach



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LSDI in the city of Zagreb (ZSDI)

- Biggest city and Capital of Croatia
- Area: 641.355 km²
- 792.875 habitants (data from 2011)
- 19 city administrative offices
- City's institutions (schools, hospitals, cultural institutions, etc.)
- Municipal companies (e.g. Zagreb Holding etc.)



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LSDI in the city of Zagreb (ZSDI)

- Big amount of spatial data (various activities: strategic planning, agriculture and forestry, spatial planning and building, property management and property legal issues, geodetic-cadastral activities, emergency management, preservation of monuments of culture and nature, environment protection, water supply and drainage, gas supply, public green area maintenance, etc.)
- First GIS activities started at the end of 1980's
- Primary data capture started in 1993 and finished ten years later
- GIS of the City of Zagreb

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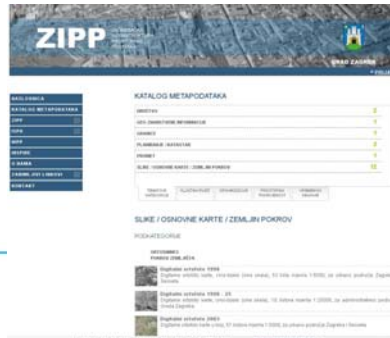
- For city employees: (topographic and orthophoto data, 3D city model, real estate cadastre, spatial units register, utility cadastre, spatial plans, spatial management and building documents (licenses), georeferenced statistical data, data on land use and land vegetation, geotechnical cadastre, cadastre of public green areas, protected immovable cultural goods, zones of utility fees and payments, register of city property)
- For citizens: (master town-planning, traffic and utility infrastructure, spatial units register, DOF and HOK (Croatian Base Map))

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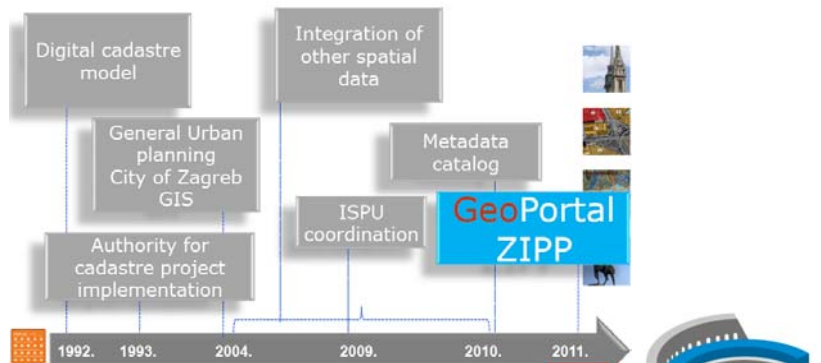
- The Coordination for creating Information system of the City of Zagreb spatial management (2009)
- Improvement of existing ZSDI
 - Connection to NSDI and INSPIRE (standardization: OGC, ISO, INSPIRE..)
 - Metadata catalogue (2010)
 - Rules on the Content, Method of Development and Maintenance of the Zagreb Spatial Data Infrastructure (ZSDI) (2011)
 - new ZSDI Geoportal (2011)



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- GeoPortal ZIPP
2012-05-10

Zagrebačka infrastruktura prostornih podataka

ZG-GEO-PORTAL



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Conclusion

- First GIS technologies and GIS toolkit in Zagreb city government resulted in more efficient workflow and better service to the citizens
- The time brings changes
- To reach this goal local governments around the world develop and use local SDI as a service for efficient spatial management to increase accuracy, reduce costs, improve efficiency, and enhance every day decision making
- ZSDI is an example of development of the SDI concept at local level as a basic part of Croatian NSDI and INSPIRE




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Zagrebačka
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Thank you for your attention!

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