PRIMORSKO-GORANSKA COUNTY



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SPATIAL DATA INFRASTRUCTURE DEVELOPMENT IN PRIMORSKO-GORANSKA COUNTY

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PI INSTITUTE FOR PHYSICAL PLANNING

OF PRIMORSKO-GORANSKA COUNTY





PRESENTATION CONTENTS

- ✓ Basic information on the County and Institute for Physical Planning of Primorsko-Goranska County
- ✓ Development of GIS and SDI in the county
- ✓ Application of realized GIS projects in the county
- ✓ Collaboration with State Geodetic Administration





ABOUT COUNTY AND INSTITUTE



Land area =3,587 km2 Sea area = 4,345 km2 Population = 305,505 Population density: 87 inhabitants/km2

- ✓ From the foundation of the County in 1993 till the end of 2007: Administrative body "County Institute for Physical Planning and Sustainable Development"
- ✓ Since 1 Jan. 2008 Public Institution "Institute For Physical Planning of Primorsko-Goranska County" (Physical Planning and Building Act)





IMPORTANT PROJECTS (1)

- ✓ Production of expert bases for the preparation of the NEW Spatial Plan of PGC (Analyses of tourist zones, commercial zones, etc.)
- ✓ 2nd Amendment to the PGC Spatial Plan
- ✓ Spatial-Traffic Study of the Integral Traffic System of Primorsko-Goranska County and City of Rijeka
- ✓ County Sports Center Platak
- ✓ LNG terminal
- ✓ Construction of gas distribution network of PGC









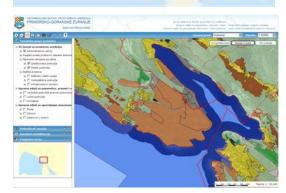
IMPORTANT PROJECTS (2)

Information systems

- ✓ GIS base of spatial plans of cities, towns and municipalities www.gis.pgz.hr
- ✓ Register of Spatial and Urban Planning Schemes <u>www.zavod.pgz.hr</u>
- ✓ Foundation of the Information-Communication
 Centre of Adriatic Euroregion Project
 - Integration of physical planning acts and documents in a single georeferenced system











DEVELOPMENT OF GEOGRAPHIC INFORMATION SYSTEM IN PGC (1)

Formal beginning in 1995

"Information on the drafting of the Current Status of County's Space Report, programme of measures and Spatial Plan of Primorsko-Goranska County" - County Assembly

Defined plan of development of Geographic Information System in Primorsko-Goranska County, as basis for the production of County Spatial Plan.





DEVELOPMENT OF GIS IN PGC (2)

Defining of County's Spatial Data Infrastructure in 2002

"Information on spatial management in regional and local self-government and application of GIS technology in PGC" - County Assembly

- ✓ collaboration between the Institute and Ministry of Environmental Protection and Physical Planning on the integration of data created while producing spatial plans of counties
- ✓ recognized need for the creation of an integral information system of physical planning in RoC
- ✓ recommendation to LSUs in the area of PGC to apply GIS technology to monitor the current status in their space and to join the county GIS system.





DEVELOPMENT OF GIS IN PGC (3)

Physical Planning and Building Act was adopted in 2008

- ✓ Formally defined construction of the Information System of Physical Planning in the Republic of Croatia
- ✓ Defined objective participants content requirement to deliver and exchange data among participants
- ✓ It is necessary to define standards for the production and change of data

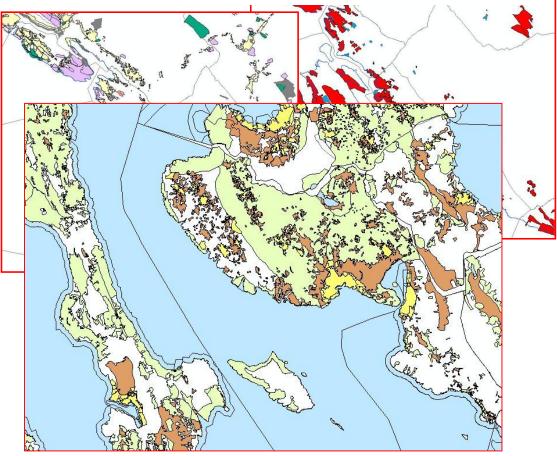




RESULT

CONSTRUCTED PART OF PHYSICAL PLANNING INFORMATION SYSTEM









GIS DATABASE OVERVIEW

LSU – local self-government unit

EIA - environmental impact assessment study

PCA – protected coastal sea area

Public Institution Institute for Physical Planning of Primorsko-Goranska County

	Data group	Subgroup	Data	Original scale	Data format	Data location	Legal status	Produced/ Updated/ Underway
	spatial data	Administrative and statistical divisions	area of PGC, LSU, statistical settlements	1:25000	GIS - gdb	server (locally) + web in PGC	public data	updated
		Documentation	geodetic network of maps, register of spatial and other documentation (EIA), PCA	1:200000 1:100000, 1:25000, 1:5000	GIS - gdb	server (locally) + web in PGC	public data	partially updated
		Environment protection	natural heritage	1:100000	GIS - gdb	server (locally) + web in PGC	public data	2004
			cultural heritage	1:25000	GIS - gdb		public data	2004
			soil: vegetation, geotechnics, pedology	1:50000- 1:100000	GIS - cov			
			sea: submarine flora and sediments	1:50000	GIS - cov	server (locally)		





APPLICATION

Production of physical planning documents and environmental protection documents - initial data

Production of Current Status of County's Space Reports,

State of the Environment Reports

- spatial analyses

Provision of information to the public

- searches, queries

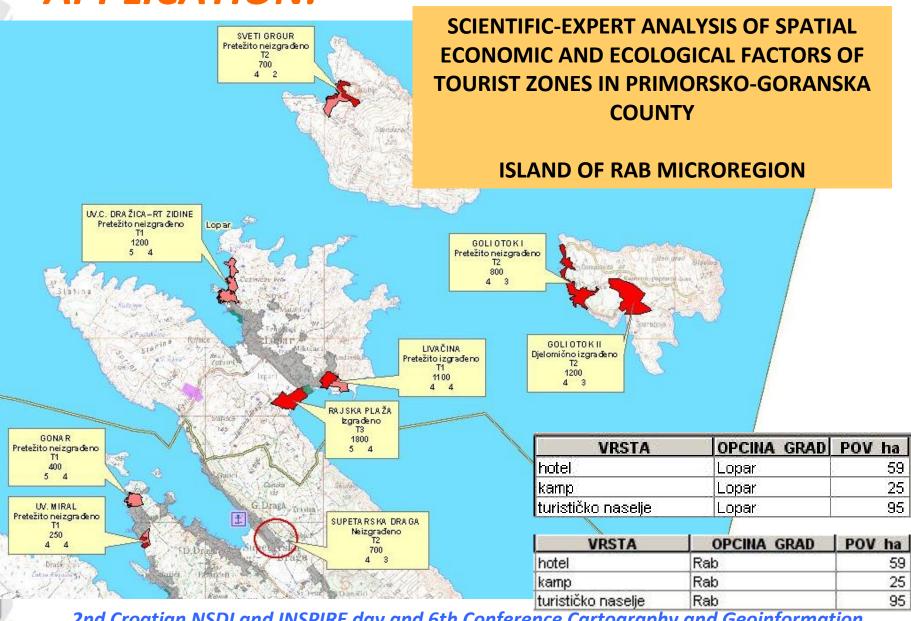








APPLICATION:



2nd Croatian NSDI and INSPIRE day and 6th Conference Cartography and Geoinformation

Opatija 25 – 27 November 2010



Application:

PGC Department of Maritime Affairs, Transportation and Communication

MARITIME DOMAIN BORDER

DOF5 base





Application: Data integration

PRODUCTION OF SEA BEACHES PROFILES

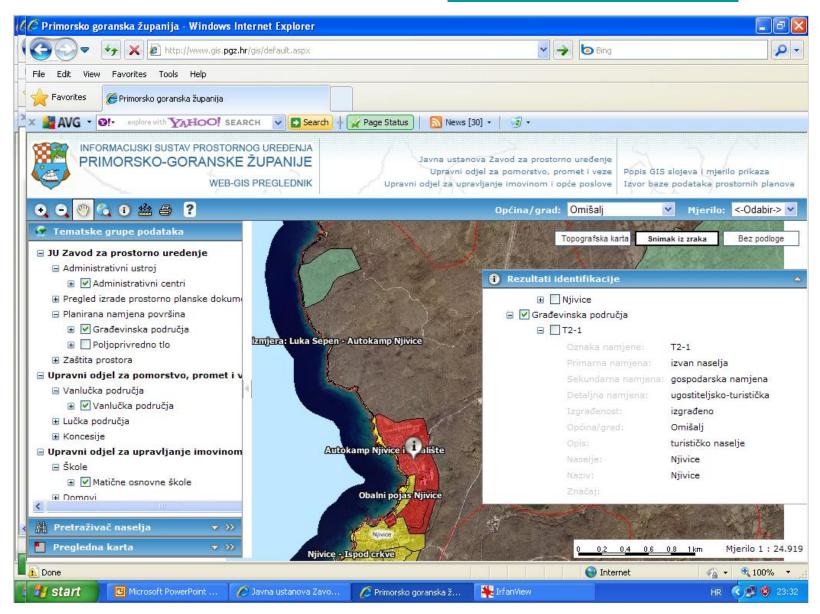
(ENVIRONMENTAL PROTECTION ACT, ORDINANCE ON SEA BATHING WATER QUALITY)





Application: GEOPORTAL

www.zavod.pgz.hr





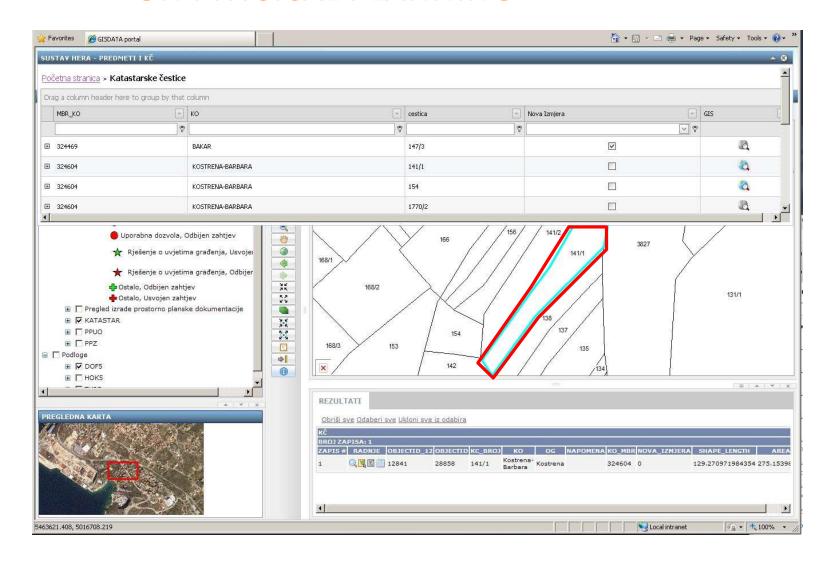
COLLABORATION WITH STATE GEODETIC ADMINISTRATION

- ✓ 2003 Agreement on Co-financing the Production of Topographic Maps in Scale 1:25000 with 50% of total amount
- √ 2005 Delivery of data on Protected Coastal Area
- ✓ 2006 Contract on Financing the Production of Digital Ortophoto Maps in Scale 1:5000 (DOF5) and Production of Digital Ortophoto Maps in Scale 1:2000 for Part of Protected Coastal Area (DOF2)
- √ 2007 Contract on Delivery of Croatian Base Map in Scale 1:5000
- ✓ 2010 Agreement on Cofinancing the Production and Updating of Official Spatial Base Networks for State Survey and Real Estate Cadastre for the period 2010 –2013





Project: INTEGRATION OF ACTS AND DOCUMENTS ON PHYSICAL PLANNING



2nd Croatian NSDI and INSPIRE day and 6th Conference Cartography and Geoinformation
Opatija 25 – 27 November 2010



CONCLUSION

- ✓ The Institute fully supports the establishment of NSDI at local, regional as well as national level.
- ✓ Unfortunately, the establishment of the Information System of Physical Planning, as an NSDI subsystem, is not being carried out as a systematic project.
- ✓ Possible reason for that is insufficient human resources and unsystematic planning. In that respect, Primorsko-Goranska County is an exception both by the number of staff and resources invested in the system development.
- ✓ The Institute fully supports the State Geodetic Administration in the development of NSDI, alignment with the EU INSPIRE Directive, the basic infrastructure for the development of Information System of Physical Planning in RoC.

