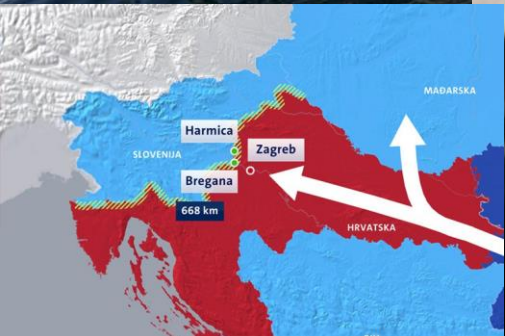




Examples of best practice from Croatia

Prof. Vlado Cetl, PhD



Outline

- NSDI
- Best practices
- Other initiatives/activities
- Way ahead



NSDI Regulation



- The first regulation on NSDI

THE CROATIAN PARLIAMENT

651

Pursuant to Article 88 of the Constitution of the Republic of Croatia, I hereby issue the

DECISION

PROMULGATING THE LAW ON STATE SURVEY AND THE REAL PROPERTY CADASTRE

I hereby promulgate the Law on State Survey and the Real Property Cadastre, passed by the Croatian Parliament at its session on 26 January 2007.

Class: 011-01/07-01/01

Ref. No.: 71-05-03/1-07-2

Zagreb, January 31, 2007

The President
of the Republic of Croatia
Stjepan Mesić, m. p.

LAW ON STATE SURVEY AND THE REAL PROPERTY CADASTRE

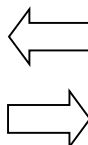
I. GENERAL PROVISIONS

Article 1

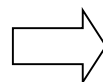
This Law governs the State Survey, the Real Property Cadastre, the Spatial Unit Register, the National Spatial Data Infrastructure, geodetic activities in local self-government, special

NSDI Organisational structure

Three level

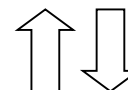


**NSDI Coordination Body
State Geodetic Administration (SGA)**
Communication, Coordination, Technical support

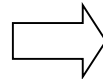


NSDI Council

Proposals



Policies,
Decisions

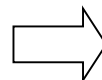


NSDI Committee

Proposals



Policies,
Decisions



**Working Groups
Projects
Users**



NSDI activities



- Workshops organized by SGA
 - May 2007 - "Presentation of Swedish NSDI model" in cooperation with Swedish International Development Cooperation Agency (SIDA)
 - September 2007 - "Presentation of Canadian NSDI model" in cooperation with Natural Resources Canada and Canadian GeoProject Centre
 - May 2008 - "Presentation of German NSDI model" in cooperation with Deutsche Gesellschaft fuer Technische Zusammenarbeit (GTZ)
- Faculty of Geodesy – new Bachelor and Masters curricula in Geodesy and Geoinformatics (2006)
 - new subjects: Geoinformation infrastructure, ...

NSDI activities



- **NSDI Publication – National Spatial Data Infrastructure in Republic of Croatia (Nacionalna infrastruktura prostornih podataka u Republici Hrvatskoj), SGA, May 2008**
 - Croatian language
 - Promotion on 2008-06-26
 - 1000 copies
 - Informing the whole professional community directly involved in NSDI establishment, on national, regional, local and business level, as well as all users on undertaken activities and next activities



NSDI activities



- 1st NSDI and INSPIRE day, Varaždin, 2009
- 2nd NSDI and INSPIRE day, Opatija, 2010
- 3rd NSDI and INSPIRE day, Split, 2011
- 4th NSDI and INSPIRE day within "SDI Days 2012" conference, Zagreb
- 5th NSDI and INSPIRE day within "SDI Days 2013" conference, Šibenik
- 6th NSDI and INSPIRE day within "SDI Days 2014" conference, Zagreb
- **7th NSDI and INSPIRE day within "SDI Days 2015" conference, Zagreb, 15–16 October**

NSDI activities



- 1st NSDI and INSPIRE workshop, 2012
- 2nd NSDI and INSPIRE workshop, 2013
- 3th NSDI and INSPIRE workshop, 2013
- 4th NSDI workshop, 2013
- 5th NSDI workshop, 2013
- 6th NSDI and INSPIRE workshop, 2014
- 7th NSDI workshop, 2015
- 8th NSDI workshop, 2015
- ...

NSDI activities



- **INSPIRATION – Spatial Data Infrastructure in the Western Balkans, 2012–2013**
- **IMPULS – "Cooperation in the Western Balkans region – Infrastructure for Spatial Information in the region of Western Balkans – ongoing**
- **Consulting Services for the National Spatial Data infrastructure (NSDI Strategy) – ongoing**
- **SGA funded projects**
 - **NSDI specification for transformation towards INSPIRE, 2015**
 - **Metadata Specification (National profile)**
 - **...**
- **INSPIRE MIG**

NSDI Regulation



- National Spatial Data Infrastructure Law (Official Gazette 56/2013)
- The NSDI is a set of technologies, measures, standards, implementation rules, services, human resources and other factors enabling efficient integration, management and maintenance of the sharing of spatial data for the purpose of satisfying needs on both the national and European level, which will be an integral part of the European Spatial Data Infrastructure defined by the INSPIRE Directive
- The State Geodetic Administration is the NSDI National Contact Point in the implementation of the INSPIRE Directive

NSDI Working groups




- Workgroup for linking the NSDI program with e-Government
- Workgroup for NSDI technical standards
- Workgroup for NSDI data sharing
- Workgroup for NSDI capacity building
- Workgroup for construction of the NSDI Business model
- Workgroup for NSDI spatial data

<http://www.nipp.hr>



Spatial data of Republic of Croatia one click away!

NSDI GEOPORTAL 

NEWS

03.09.2015.

Deadline for submission of abstracts for SDI Days is getting close

This year's SDI Days will be held on 15th and 16th October 2015. in Zagreb in the great hall of the Faculty of Geodesy. Conference topics for this year are:

29.07.2015.

Updated NSDI Registers

With today's date **Register of spatial data sources** and **Register of NSDI subjects** are refreshed. In the Register of subjects 38 NSDI subjects are reported, and in the Register of spatial data sources 175 sources of spatial data are reported.

20.07.2015.

First call for SDI Days 2015

SGA traditionally organizes an annual conference devoted to spatial data infrastructure; SDI Days.

14.07.2015.

NSDI Geoportal represented in Eurogeographics Annual Review for 2014

Establishment of NSDI Geoportal has been recognized as an important achievement in the field of spatial information, both for Croatia and for the whole European community.

MORE

NSDI



GEOPORTAL
National Spatial
Data Infrastructure

[Homepage](#) [Search](#) [View](#) [User's support](#)

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Explore.Show.Share!

Spatial data of Republic of Croatia one click away.

Enter keywords for searching of
spatial data:



[Advanced search >](#)

126

Metadata records

27

Network services

27

NSDI Subjects

The NSDI Geoportal serves as a starting point for accessing spatial data sources that are, according to the NSDI Act (Official Gazette 56/2013), part of National Spatial Data Infrastructure.

[FIND OUT MORE](#)

SEARCH


Search for spatial data and network services

MAP


View spatial data in web interactive map viewer

<http://geoportal.nipp.hr>

Open data

 Središnji državni portal

e-Građani

 **data.gov.hr**
Portal otvorenih podataka
Republike Hrvatske


Prijava

Pretražite podatke...

Q


Podaci Aplikacije Dodatni sadržaji Kontakti

Što je Portal otvorenih podataka?




Pogledajte više >

Što je Otvorena Vlada?



Pogledajte više >

Statistički pokazatelji



Pogledajte više >

Najnoviji skupovi podataka

- Broj pacijenata po ordinaciji primarne zdravstvene zaštite
- Popis kategoriziranih turističkih objekata
- Popis autotaksi prijevoznika u Gradu Zagrebu
- e-Građani – statistika
- Kvaliteta zraka u Republici Hrvatskoj

Najnovije aplikacije

21.08.2015.
CroSoS

10.06.2015.
Imamo pravo znati

05.05.2015.
HRstat: interaktivna vizualizacija statističkih podataka o Hrvatskoj

23.03.2015.
Zagreb Food

18.03.2015.
...

Najave događanja

29.09.2015.
Okrugli stol – novosti o ponovnoj uporabi informacija i otvorenim podacima

09.11.2015.
Maksimiziranje interoperabilnosti (Share-PSI)

Pogledajte više >

<http://data.gov.hr>

DRDSI

Datasets

Filter by location [Clear](#)



Priorities

- Irrigation and agri... (93)
- Environmental prote... (48)
- Navigability (15)
- Energy production (9)

[Show More Priorities](#)

Organizations

- INSPIRE CZECH REPUBLIC (1461)
- INSPIRE Austria (813)
- INSPIRE Slovakia (305)
- INSPIRE Romania (206)
- Danube_Net Croatia (199)
- Danube_NET Ukraine (193)
- EuroGeoSurveys (176)
- Danube_NET Slovenia (175)
- CARPATCLIM (170)
- Joint Research Centre (109)

Search datasets...



4,271 datasets found

Order by: [Relevance](#)



Black Sea Beaches retreat

Beach erosion vulnerability has been assessed by combining Black Sea beaches geodatabase with coastal retreat prediction induced by sea level rise scenarios. Coastal retreat...

[geo](#) [download](#)

[Preview](#) [+ Add](#)



Black Sea Beaches

A complete database of Black Sea beaches have been digitalized in Google Earth Pro Application. The dataset are in shapefile format and contain an attribute table with a bref...

[geo](#) [download](#)

[Preview](#) [+ Add](#)



Black Sea Basin divided into 12982 subbasins

Black Sea Basin with the area of 2million km2 was divided into 12982 subbasins

[geo](#) [download](#)

[Preview](#) [+ Add](#)



Black Sea Catchment

Black Sea Catchment

[geo](#) [download](#)

[Preview](#) [+ Add](#)



Point sources pollution

Point sources pollution

<http://drdsi.jrc.ec.europa.eu>

Zagreb SDI

[O GeoPortalu](#)[Vijesti](#)[Linkovi](#)[Kontakt](#)[1](#) [2](#) [3](#) [4](#) [5](#)

GLAVNI PREGLEDNIK

Glavni preglednik: Glavni preglednik je tematska karta koja objedinjuje najveći broj slojeva: od GUP-a, prostornih jedinica, škola, vrtića, lokacija za skladištenje otpada do arheoloških i povijesnih cjelina.



INSPIRE
Infrastructure for Spatial
Information in Europe



OGC
Open Geospatial
Consortium



Zagrebačka
infrastruktura
prostornih podataka

METAPODACI

Katalog metapodataka ZIPP-a
Zagrebačka infrastruktura prostornih podataka (ZIPP) je lokalna infrastruktura prostornih podataka koja obuhvaća podatke i informacije gradskih ureda, zavoda i službi, gradskih trgovačkih društava i gradskih ustanova. Svaki je opis realnosti...

[više](#)

MREŽNE USLUGE

WMS servisi
Učinkovito upravljanje prostornim podacima moguće je kroz uspostavu infrastrukture prostornih podataka (IPP-a) koja ima za cilj omogućiti svim zainteresiranim brz, nesmetan i jednostavan pristup prostornim podacima i njihovo korištenje.

[više](#)

VIJESTI

Zagrebačka prostorna infrastruktura - Vijesti

8
srpanj

Novi WMS servis i slojevi na Geoportalu ZIPP

Danas je na Geoportalu ZIPP omogućeno korištenje novog WMS servisa za katastar zelenila. Upute za korištenje WMS servisa, kao i podaci o servisu se nalaze unutar cjeline 'Servisi', alat 'WMS servisi'.

[više](#)

Tematske karte



Glavni preglednik
Glavni preglednik je tematska karta koja objedinjuje najveći broj slojeva: od GUP-a, prostornih jedinica, škola, vrtića, lokacija za skladištenje otpada do arheoloških i povijesnih cjelina.

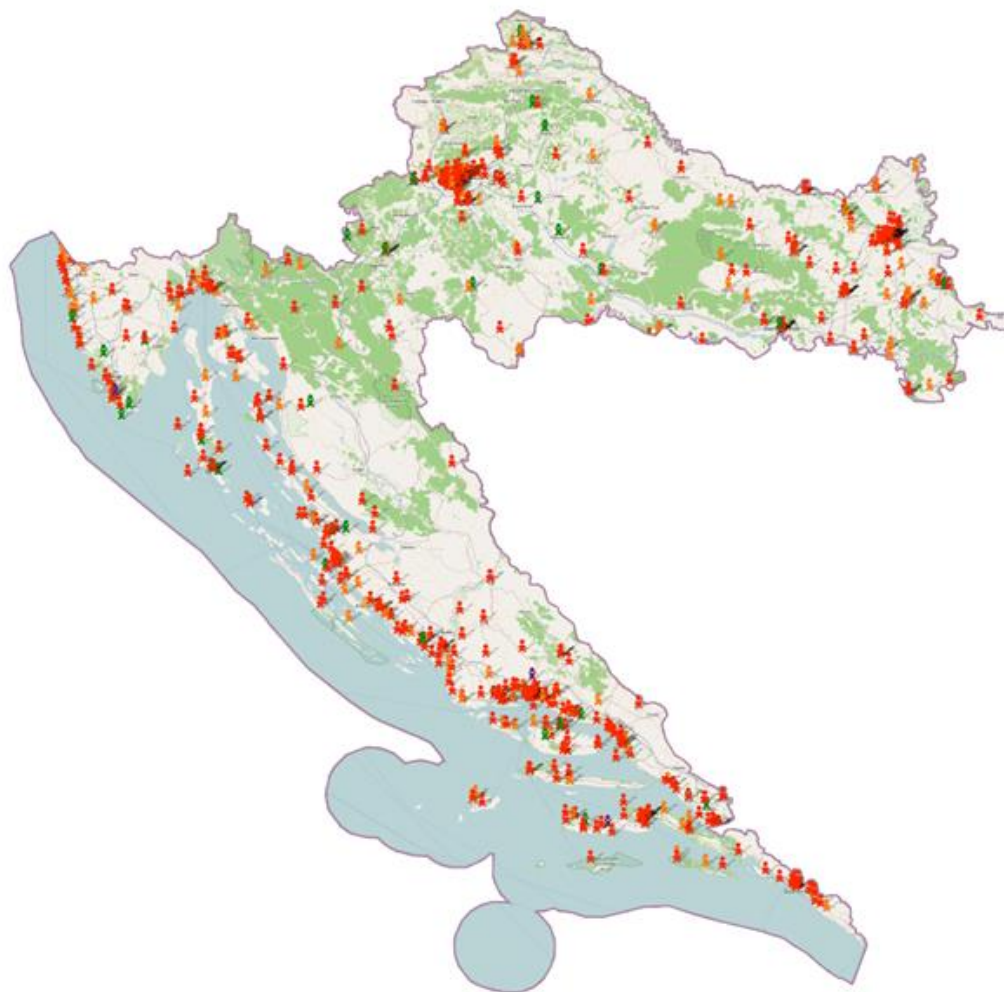
12
lipanj

Nove funkcionalnosti i detaljniji planovi na Geoportalu ZIPP

Od danas na Geoportalu Zagrebačke infrastrukture prostornih podataka korisnici imaju mogućnost korištenja nove funkcionalnosti

<https://geoportal.zagreb.hr/>

VGI & SDI



Open street map contributors
in Croatia

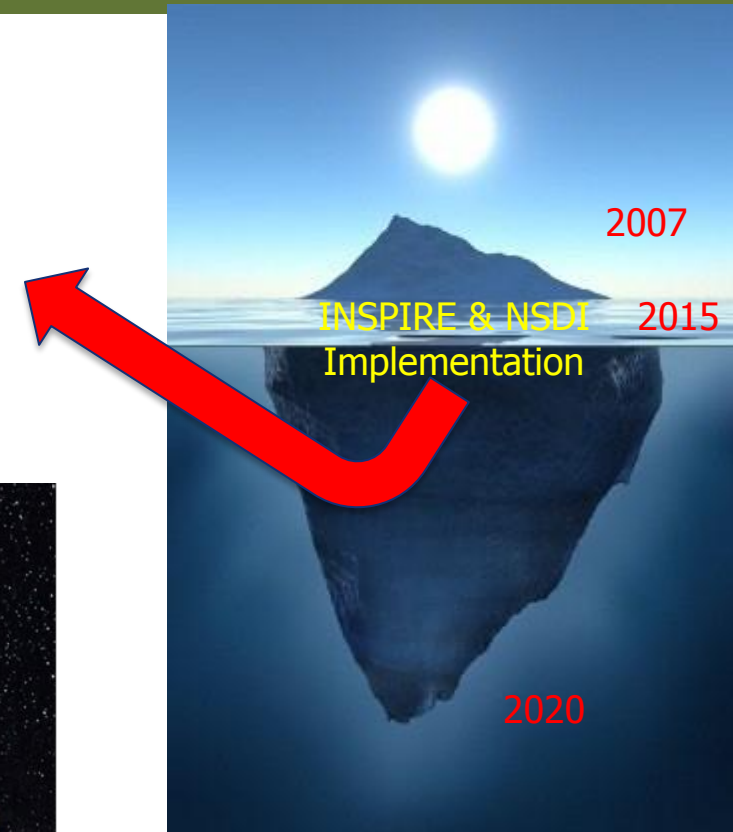
NSDI summary



- Top-down approach (Legal framework)
- Main activities are still on national level
- Organisational structure
- Promotion and education – sharing of best practices
- Data sharing (Because its law does not mean it happens)
- Coordination
- Capacity building
- ...
- NSDI is still in development (... but we all know that NSDI is an never-ending process ...)

Policy Evaluation 2014 NSDI Strategy ...

- Challenges ahead
- Be aware of the risks & opportunities



Thank you!

vlado.cetl@geof.hr

