

# The Role of National Mapping and Cadastral Agencies in Establishment of NSDI: Croatian Example

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## Structure

- State Geodetic Administration (SGA) as Croatian National Mapping and Cadastral Agency (NMCA)  
- introduction
- The role of SGA in NSDI establishment
  - Preparation phase
- NSDI development
  - organisational, legal and technical aspect
- European NMCA's united in EuroGeographics –  
NMCA's benefits
- Conclusion - Role of NMCA's in NSDI establishment

## SGA – Croatian NMCA

- state administrative organisation dealing with administrative and professional tasks in filed of geodesy, geoinformatics, state survey, real estate cadastre, spatial units register, spatial data infrastructure and also takes care about geodetic profession
- Since 2000 organised in Central Office and 20 Regional Offices for cadastral system (including 112 cadastral offices) – more than 1000 employees

## The Latest SGA's Achievements



### Web services

- [www.katastar.hr](http://www.katastar.hr)  
(alphanumeric cadastral data)
- [www.geoportal.hr](http://www.geoportal.hr)
  - Orthophoto
  - Croatian Basic Map
  - Raster Cadastral Map
  - RSU (register of spatial units)
  - Geodetic points

## The Latest SGA's Achievements (2)



### CROPOS (CROatian POsitioning System)

- [www.cropos.hr](http://www.cropos.hr) :
- 30 permanent GNSS stations and 2 control GNSS stations
- offering three services (DSP, VPPS and GPPS)

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[www.dgu.hr](http://www.dgu.hr)

## The Role of SGA in NSDI Establishment - Preparation Phase

- main initiators for SDI establishment in Croatia
- the first actions on fulfilment of prerequisite for SDI establishing
- three studies analysing situation and giving recommendations for SDI establishment
  - NSDI Publication in 1000 copies
- awareness raising – workshops for sharing of best practices (Swedish, Canadian and German model)
- production of data trough agreements with NSDI subjects

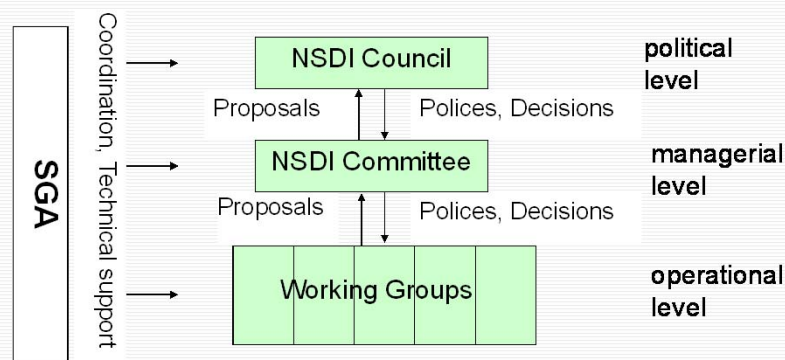
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## NSDI Development - Legal Aspect

- Law on State Survey and Real Estate Cadastre (02/2007) – **the first regulation on NSDI**
  - all in line with INSPIRE, but Inspire directive only partly transposed
- In 2009 Inspire directive was included in the National Program for Accession European Union – obligation to transpose it till joining EU
- No further steps of transposition till 2007, but...
- Inspire Metadata Regulation proposed for adoption in Croatian legislation (July 2010)

## NSDI Development – Institutional Framework



## NSDI Development – Working Groups

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- Working Group on Technical Standards
- Working Group on Data Sharing
- WG E-Government
- WG Capacity Building
- WG Business Models.

## NSDI Development – Education and Awareness Raising

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- First Croatian NSDI and INSPIRE day, 26 November 2009, Varazdin
  - More than 200 participants from education, commercial and administrative sector, EU representative
  - Sharing of best practices with Norway
  - leaflet with main information about INSPIRE and NSDI in Croatia was prepared and distributed to the participants



## NSDI Development – Technical Aspect

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- National geoportal - metadata public service on the Internet (defined through the Law)
- SGA geoportal as a platform for national geoportal
- Next steps:
  - new datasets to the existing services - vector data and regional RSU data added
  - national public metadata service developed, tested and accepted
  - WFS/download services towards the system/systems of the NSDI key stakeholders
  - Geoportal enabled for INSPIRE access point function

## EuroGeographics – United Voice of European NMCAs ([www.eurogeographics.org](http://www.eurogeographics.org))

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- not-for-profit organisation formed in 2001 as the membership association and their representative body
- brings together 52 members from 43 countries across Europe (January 2010)
- **Mission** - further the development of the European Spatial Data Infrastructure through collaboration in the area of geographical information, including topographic information, cadastre and land information
- **Main goal:** government, business and citizens rely on geographical information provided by association, respectively its member – NMCAs

## NMCAs' Benefits from EuroGeographics

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- Engagement with European decision-makers in order to enables positive contribution to important initiatives, policies and projects.
- The exchange of best practice between members to understand and implement policies, procedures and technologies;
- Harmonising national spatial datasets into a portfolio of integrated pan-European products and related services;
- contribution to the creation of standard data specifications and policies trough common projects

## The Role of NMCAs in NSDI Establishment - Summary

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NMCAs are:

- one of the main producers of spatial data:
  - collect and manage spatial information
  - distribute spatial information and knowledge how to use it to the whole society
- one of the important leader in SDI establishment:
  - awareness raising
  - sharing of best practices
  - education
  - very often coordination body

## Conclusion

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**NMCAs are movers of geoinformation society development and... their goal is to**

- provide as good as possible spatial information and services in frame of e-Government national program
- satisfy national as well as European needs ...

... Eurogeographics is the good platform for find the best methods to fulfil those goals!

## Thank you for your attention! Questions?

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### CROATIA – IDENTITY CARD



- Land area: 56.542 km<sup>2</sup>
- Territorial sea: 31.067 km<sup>2</sup>
- Population (census 2001): 4.437.460 inhabitants
- No. of islands, islets and reefs: 1185
- No of inhabited island: 47
- Capital: Zagreb with 779.145 inhabitants