STATE GEODE蒂C ADMINISTRATION

Croatian SDI: a Tool for Accelerated Development of the Geo-Conscious Society

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STRUCTURE

• Structural reforms and need for the NSDI
• Milestones of NSDI establishment
  – Legal framework
  – Institutional framework
  – International cooperation
• Activities planned in 2009
• Stakeholders partnership
STRUCTURAL REFORMS AND NEED FOR SDI

- Country in transition – need for high-quality spatial information
- New legislation related to the ownership and other real rights, land register, state survey and real estate cadastre, physical planning and construction and agricultural land – framework for a comprehensive land administration reform
- Real Property Registration and Cadastre Project worth 47 mil. EUR
- All new laws concerning spatial information define obligation of establishment a GIS database whose platform are official spatial backgrounds

MILESTONES OF CROATIAN SDI ESTABLISHMENT

- 2001 - the European Commission launched the Infrastructure for Spatial Information in Europe (INSPIRE)
- 2001 – SGA’s study “Review of EU requirements for Geographic Information Infrastructure in Croatia”, Bloominfo, Denmark
- 2005 – SGA’s “Study on Development of National Spatial Data Infrastructure in Croatia”, Con Terra, Germany
MILESTONES OF CROATIAN SDI ESTABLISHMENT cont…

- 2006 – SGA’s study “Croatia: National Spatial Data Infrastructure and Inspire” was produced by Geolink Consulting, UK


LEGAL FRAMEWORK

- Law on State Survey and Real Estate Cadastre (02/2007) – the first regulation on NSDI - 11 articles

- Definition of NSDI, its stakeholders and data involved, rules about metadata and services – all in line with INSPIRE, but transposition of Inspire not completed

- Plan and Program of Inspire transposition into national regulation – not yet defined, preparation of proposal submitting undergoing. Expected to define proposal in 2010.
INSTITUTIONAL FRAMEWORK

- Three-level organisational structure: NSDI bodies, their tasks and rights are defined:
  - NSDI Council – 16 members (various ministries and agencies, representatives of GIS and IT employers), appointed by Government on 4 years mandate
  - NSDI Board – 3 members of Council, 2 members SGA, heads of working groups
  - Working groups – established for specific task or field of activity
- SGA is mandated for providing logistic and coordination support
MILESTONES OF CROATIAN SDI ESTABLISHMENT cont…

- SHARING OF BEST PRACTICES -

• 29th and 30th May 2007 - Workshops for political and operation level of GI community – sharing of best practices - National Land Survey of Sweden and Swedish Ministry of Environment

• 12th September 2007 - Workshop for operation level of GI community - Natural Resources Canada, GeoConnections Programme, Canadian GeoProject Centre

• 26th and 27th May 2008 - Workshops for political and operation level of GI community - sharing of best practices from Germany, GTZ and LGN Niedersachsen

MILESTONES OF CROATIAN SDI ESTABLISHMENT cont…

• 26th June 2008 – Study “National Spatial Data Infrastructure in Republic of Croatia” was promoted
  • 1000 copies in Croatian language
MILESTONES OF CROATIAN SDI ESTABLISHMENT cont…

• 3rd July 2008 – 2nd constitution of NSDI Council (1st NSDI Council was founded on 31st May 2007, but never become operational)

• 4th September 2008 – 1st NSDI Council meeting
  • Statute of NSDI Council
  • Work Plan for 2008
  • Constitution of NSDI Committee
  • Constitution of two working groups – technical standards and data sharing

WORKING GROUP ON TECHNICAL STANDARDS

• OBJECTIVES:
  • Test, verify and mature as necessary the technical specifications provided by INSPIRE Implementing Rules and Guidance Documents on Metadata and Network Services
  • Provide feedback to the INSPIRE Drafting Teams
  • Provide proposals to the NSDI Committee respectively the NSDI Council
  • Provide best practices and other technology information developers need to create in-demand applications
WORKING GROUP ON DATA SHARING

• OBJECTIVES:
  • to create and propose to NSDI bodies a template agreement on spatial data exchange, access and usage among all NSDI subjects
  • to provide a harmonized template of rules and conditions for data and services access and reuse by third parties
  • to cooperate with data providers of the public and private sector and helps to streamline the licensing process for data and services by encouraging the NSDI community to adopt a standard for issuing licenses
  • the approach is in line with national legislation and INSPIRE

MILESTONES OF CROATIAN SDI ESTABLISHMENT cont…

• September - December 2008 – Inspire directive was included in the National Programme for joining EU for the year 2009

• 27th February 2009 – 2nd NSDI Council meeting
  • Report for the year 2008.
  • Work plan for 2009.
WORK PLAN FOR 2009

- **Institutional framework**
  - Secretariat of NSDI in SGA – new department (new organizational chart of SGA should be adopted till July 2009)
  - Appointment of National Contact Point with EC for INSPIRE
  - Constitution of 3 new working groups in 2009
    - WG E-Government
    - WG Capacity Building
    - WG Business Models

- **Communication and promotion**
  - NSDI leaflet
  - Web page

WORK PLAN FOR 2009

- **Education**
  - NSDI and Inspire national day (November, 26 2009)
  - 4. NSDI workshop in cooperation with Norway-sharing of best practices

- **Standardization**
  - Producing i.e. accepting from Inspire proposed technical specification – WG on Technical Standards
    - Specification on metadata and metadata services
  - license model producing – WG on Data Sharing
WORK PLAN FOR 2009

Tools & services
- Geoportal SGA – launching in May 2009
  - Five SGA’s data sets in 1st phase including web sales component
  - Metadata harmonized with ISO standards
  - Forerunner of national geoportal: “SGA is responsible for the establishment and maintenance of the metadata public service on the Internet (through a geoportal), in a way that enables NSDI subjects to interactively maintain the spatial data included in NSDI.”
  - Metadata catalogue till 2010
- NSDI web page

SUPPORTED ACTIVITIES – SDI TOOLS
- CROPOS – December 2008
  - CROatian POsitioning System – network of 30 permanent GNSS stations
  - EU Phare 2005 supported
  - Textual data (20-30 mil entries)
- Joint information system - 2010
  - Cadastre & land registry
  - Digital cadastral maps
CO-OPERATION MODEL

EXAMPLES ON CO-FINANCING

- Agreements on co-financing with public institutions and self-government bodies (all on interest-based voluntary platform):
  - orthophoto production (partly produced through 30 agreements with other subjects)
  - 18 (21) counties participated in production of topographic data
  - each cadastre resurvey cofinanced by local government in past 10 years (> than 200)
GIS BASED ON SGA’S DATA AND STANDARDS

- Ministry of Defence - VOGIS – Military GIS based on CROTIS (Croatian Topographic Information System) and SGA’s topographic database data
- Ministry of Culture - GIS for National parks and protected areas based on topographic maps, orthophotos and cadastral maps
- Ministry of Agriculture, Fisheries and Rural Development - Land Parcel Identification System based on SGA’s orthophotos and cadastral maps

CONCLUSION

- Croatia is a non-EU country, but on its way to join EU.
- Transposition of Inspire into national regulation has already started, even before Inspire was adapted.
- Basic preconditions for development of NSDI has been created.
Thank you for your attention!

Questions?

CROATIA – IDENTITY CARD

• Land area: 56.542 km²
• Territorial sea: 31.067 km²
• Population (census 2001): 4,437,460 inhabitants
• No. of islands, islets and reefs: 1,185
• No of inhabited island: 47
• Capital: Zagreb with 779,145 inhabitants