INSPIRE Education and Awareness Raising – Success through National, Regional and European Cooperation

LJ. Rašić, Ž. Bačić, Ž. Hećimović
State Geodetic Administration, Zagreb, Croatia

INSPIRE Conference, 27th June – 1st July 2011, Edinburgh
Structure

- NSDI development – State of play
  - Legal framework
  - Institutional framework

- Role of SGA (Croatian NMCA) in SDI establishment
  - Main producer of data
  - Mover of SDI development

- Education and Awareness Raising
  - National
  - Regional
  - European
NSDI Development - Legal Aspect

- Law on State Survey and Real Estate Cadastre (16/2007) – **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

- Plan to prepare a draft of the Law in 2011

- Adoption into national regulation till joining EU
Transposition of the Inspire Implementing Rules

- Inspire Metadata Regulation adopted by Croatian Government in August 2010 - Criteria and norms for data exchange are passed by the Government of the Republic of Croatia upon recommendation from the NSDI Council.

- Inspire IR – Network services – till end of 2011
  - draft already available (prepared by WG Technical Standards)

- Agreement on data exchange, use and access – in public discussion at the moment
  - Business model missing (a draft should be prepared till end of 2011)
Double Role of SGA in NSDI Establishment

SGA

- main producer of spatial data
  - collect and manage spatial information
  - distribute spatial information and knowledge how to use it to the whole society

- main initiator of SDI development
  - awareness raising
  - sharing of best practices
  - education
  - coordination body
Cooperation on European/International Level

- The first idea came through membership in organisations dealing with SDI
  - EuroGeographics - active member since 2001
  - GSDI – full membership since 2010
  - FIG – affiliate membership since 2010
  - East Central and South-East Europe Division (the Division) of the UNGEGN (geographical names)

- Relations to the Inspire
  - Croatian representative in Inspire Committee
  - SGA – National Contact of Point
Benefits from Membership

- Stronger common way of contribution to important European initiatives, policies and projects
- The exchange of best practice
- Harmonised national spatial datasets
- Standardisation of data through common projects
Education and Awareness Raising at National Level

- Publication - INSPIRE and NSDI
  - 2001 – “Review of EU requirements for Geographic Information Infrastructure in Croatia”, Bloominfo, Denmark
  - 2005 – “Study on Development of National Spatial Data Infrastructure in Croatia”, Con Terra, Germany
  - 2006 – “Croatia: National Spatial Data Infrastructure and Inspire”, Geolink Consulting, UK
  - NSDI Publication in 1000 copies, 2008
  - Leaflet with basic information on the NSDI in Croatia and the INSPIRE Directive (2009)
Workshops for sharing of best practices

- 1-2 day workshop for different levels of participants
- Crosscut through GI community (about 150 participants)

- **Canada**, September 2007, Natural Resources Canada, GeoConnections Programme, Canadian GeoProject Centre
- **Germany**, May 2008, GTZ and LGN Niedersachsen
- **Norway**, November 2009, Statens Kartverk
Education and Awareness Raising at National Level (3)

- National NSDI and INSPIRE day
  - Aim: educate and inform all NSDI subjects in Croatia on the objectives and tasks of NSDI establishment, all in accordance with the INSPIRE directive
  - Scientific-professional-promotion conferences held in frame of the annual cartographic conferences (about 200 participants)
    - November 2009, Varaždin
    - November 2010, Opatija
    - September 2011, Split
Networking of NSDI Subjects Through Working Groups

Working Groups

- Technical Standards
- Data Sharing
- e-Government
- Capacity Building
- Business Model

state bodies

private sector

local and regional self-government bodies

universities

INSPIRE Conference, 27th June – 1st July 2011, Edinburgh
WG – Capacity Building

- Objectives:
  - identify gaps, produce best practice guidelines and work on National SDI-specific curricula for geoinformatics courses at different educational levels.
  - survey related to spatial data and SDI
  - 2010 - for high schools and universities
  - 2011 – for secondary schools
  - Conclusion based on the survey:
    - education on SDI should be introduced/extended
  - WG is going to produce guidance for capacity building of NSDI in the Republic of Croatia.
Regional Cooperation

- Cooperation among NMCA’s re-established 10 years ago and growing
- Phase 1: bilateral agreements on cooperation and exchange of data and service
  - Annual meetings
  - Exchange of border cartographic material
  - GNSS permanent networks data exchange
- Phase 2: regional conferences and studies
- Phase 3: regional projects
Regional Conferences & Studies on Cadastre and SDI

1. Conference on Cadastre, Croatia, Opatija 2008
2. Conference on Cadastre, FYRO Macedonia, Ohrid 2009
3. Conference on Cadastre and SDI, Montenegro, Bečići 2010
4. Conference on SDI and Cadastre, Slovenia, Bled 2011
INSPIRATION – SDI in the Western Balkans

- **Project purpose**
  - Promote SDI as a concept in order to prepare countries in the region for implementation of the INSPIRE direction

- **Beneficiaries**
  - Main: National Mapping and Cadastre Authorities (NMCA’s) of Beneficiary countries
  - Secondary: Universities providing education in surveying, geodesy and geomatics; Project Implementation Units of national land administration reform projects
  - Tertiary: NSDI stakeholders in each country (other governmental institutions, especially Ministries of Agriculture (LPIS) and Ministries covering environmental protection); private surveying, GIS and geomatics commercial sector in each Beneficiary country

INSPIRE Conference, 27th June – 1st July 2011, Edinburgh
INSPIRATION – SDI in the Western Balkans

- Expected results:
  - Legislation regarding SDI framework prepared for implementation in each country
  - Improved capacity of NMCA’s officials and NSDI users in the field of SDI
  - Raised awareness among public and government in NSDI / INSPIRE
Conclusion

- SGA as Croatian NMCA gave huge effort on education and awareness raising on SDI and INSPIRE at national and regional level

- The first idea came through membership in European organisations

- Cooperation at all levels is the best platform to find the best methods to fulfil the goals on SDI development.
Thank you