

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

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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

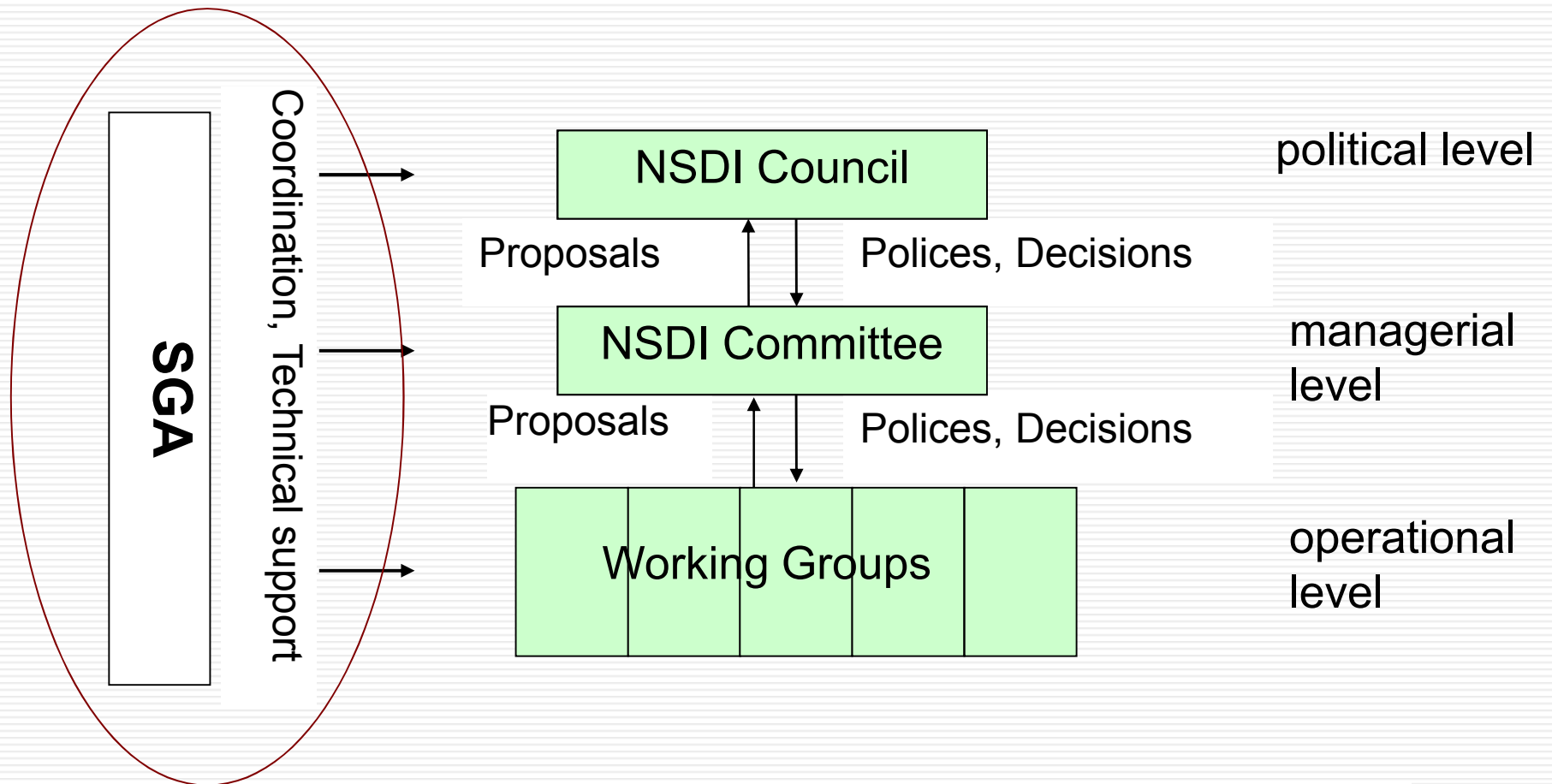
Transposition of the Inspire Implementing Rules

- 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.

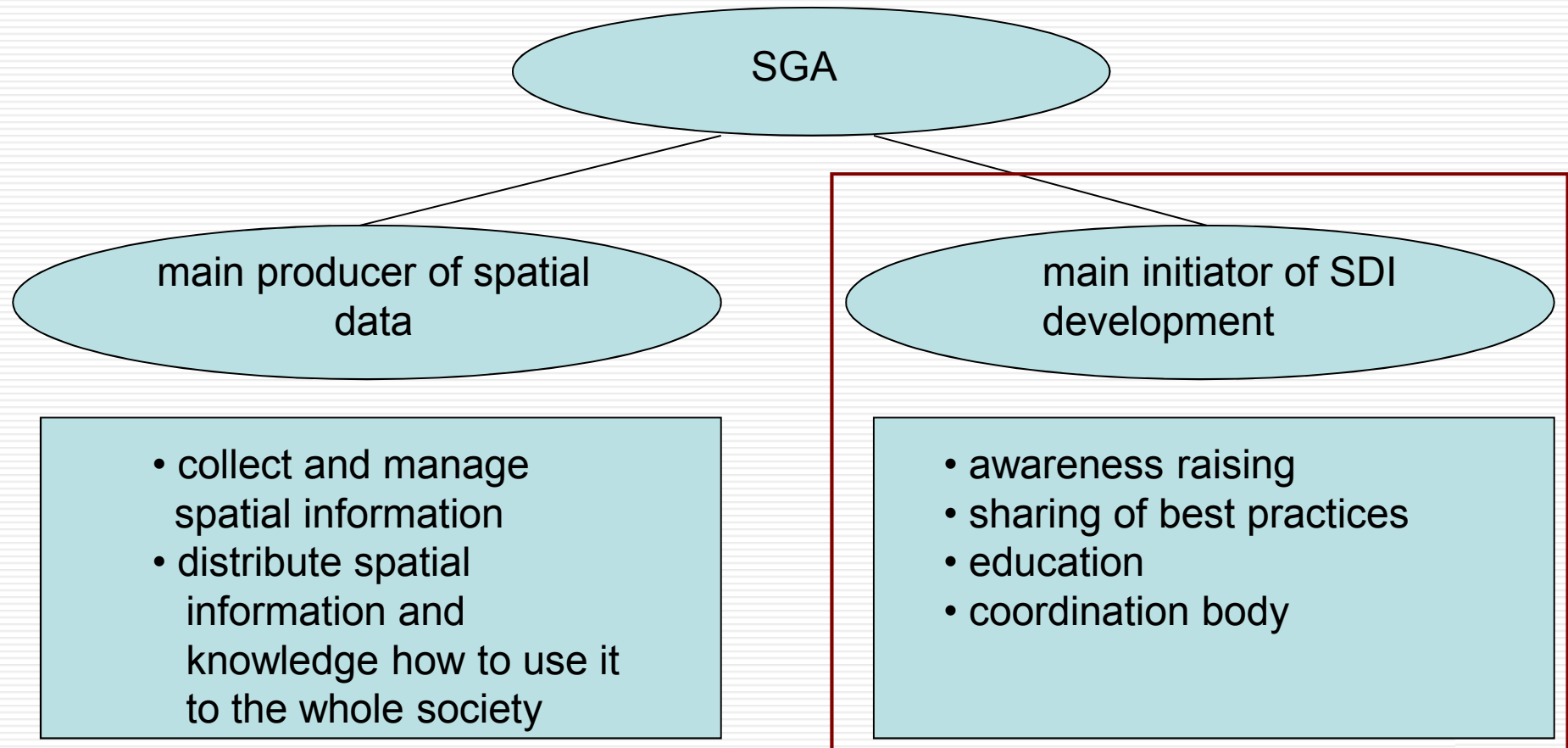
- Inspire IR – Network services – till end of 2011
 - draft already available (prepared by WG Technical Standards)

- 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)

NSDI Institutional Framework



Double Role of SGA in NSDI Establishment



Cooperation on European/International Level

- The first idea came through membership in organisation 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)



Education and Awareness Raising at National Level (2)

- **Workshops for sharing of best practices**
 - 1-2 day workshop for different levels of participants
 - crosscut trough GI community (about 150 participants)

 - **Sweden**, May 2007, National Land Survey of Sweden and Swedish Ministry of Environment
 - **Canada**, September 2007, Natural Resources Canada, GeoConnections Programme, Canadian GeoProject Centre
 - **Germany**, May 2008, GTZ and LGN Niedersachsen
 - **Norway**, November 2009, Statens Kartverk

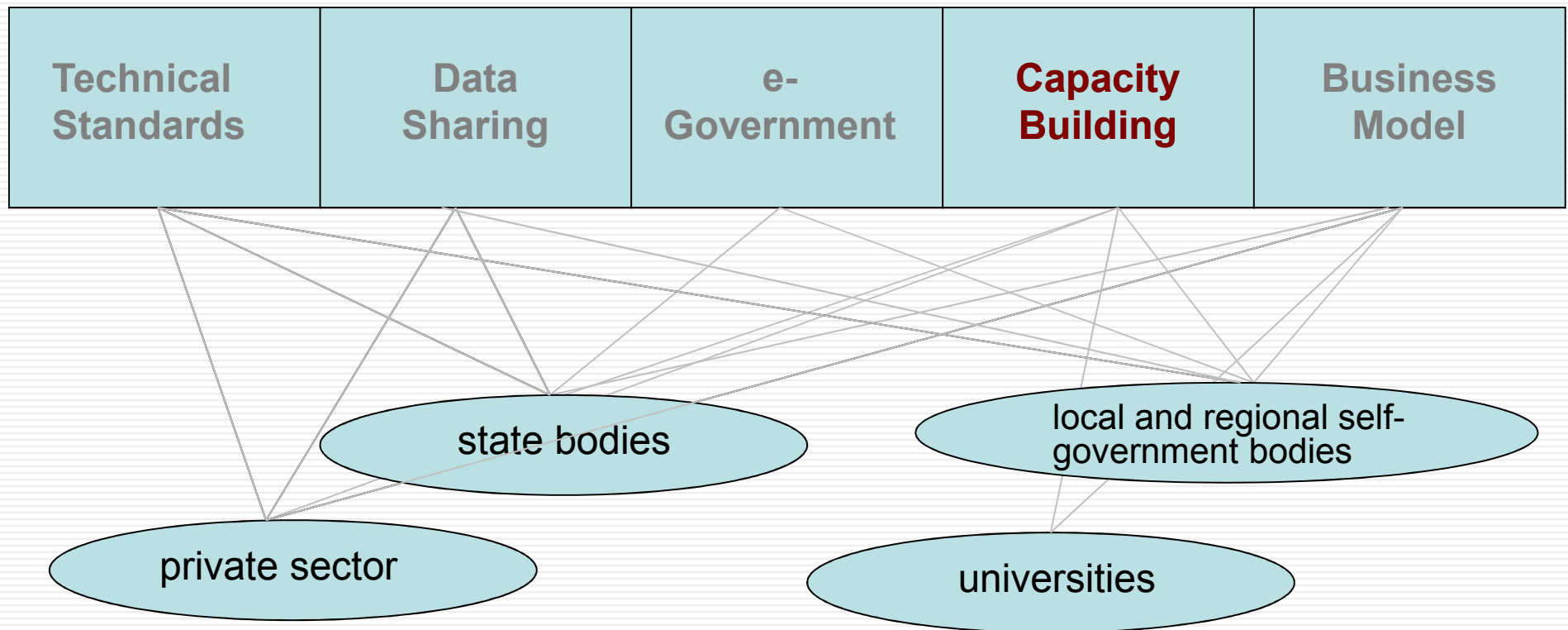
Education and Awareness Raising at National Level (3)

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



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

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

