Serbian SDI status and development

Republic Geodetic Authority

INSPIRATION – Spatial Data Infrastructure in the Western Balkans
1st Regional INSPIRATION forum

Zagreb, 27th September 2012

Status of SDI in Serbia

Institutional framework

- ☑ 2009: The **Law** on State Survey and Cadastre – Legal basic for NSDI establishment
- ☑ 2010: SDI **Strategy** of Serbia, 2010 – 2012
- ☑ 2010: NSDI **Council** is appointed by The Serbian Government
- ☑ 2011: Decision on the establishment, jurisdictions and selection of members of NSDI working groups is taken by NSDI Council
  - **Working group for cooperation** [19 members]
  - **Working group for legal framework** [10 members]
  - **Working group for technical framework** [23 members]
- ☑ 2011: **Medium term program** for NSDI, 2011 – 2015

Status of SDI in Serbia

Technical framework

- ☑ 2009: Initial **Geoportal** www.geosrbija.rs is launched
- ☑ 2010: **Metadata** – Proposal of metadata profile for geodata
- ☑ 2011: **Metadata** – Metadata Editor
  [INSPIRE + ISO 19115 + ISO 19139]
- ☑ 2009 – 2012: Data conversion and WMS services creation for **data publishing** via the geoportal
  (ortophoto, cadastral parcels, addresses, administrative units, topographic and thematic maps, stakeholders/sector spatial data and etc.)

Status of SDI in Serbia

2012: Ongoing Activities

- **Technical Infrastructure development**
  - Development strategy
  - Metadata Catalogue service
  - Geoportal improvements (new realise and enhanced search function)
  - New web portals (IGIS project: METIS, INSPIRE compatible, DataDoors/WebBoutique)
- **Technical Framework Document** [draft]

  Core standards for data and services
- Institutional framework: **Cooperation**
  - Analysis of current situation of regulation in geoinformation area
  - Survey of geo-sector status: Analyse of current status and needs
  - Geodata sharing policy: Recommendation for cooperation model

Further development

Short-term activities

- NSDI **Strategy** for the next period
- Transposition of **INSPIRE** directive
- Draft cooperation **agreement**
- Discussion and adoption of **Technical Framework Document**
- **Geoportal improvements** implementation
- **Technical Infrastructure Development** (new web portals from the IGIS project implementation)
- Available **data** and **services** enchantment

Further development

Med-term activities: Institutional framework

- Determination of responsible a public entities for INSPIRE themes
- Transposition of INSPIRE implementation rules in national regulation
- Development of financing model for NSDI development
- Entering into agreements among stakeholders
- Cooperation model development
- Cost-benefit analyses of INSPIRE implementation
- Capacity building of employees in geosector
- Education program adaption to achieve SDI requirements
- Reporting and monitoring of NSDI progress

Further development

Med-term activities: Technical framework

- Collection and maintenance of metadata for INSPIRE themes
- Stimulation of geodata sharing via services based on web mapping technology (WMS, WFS, WCS, CSW etc.)
- Existing data model comparison with INSPIRE data specifications
- Follow-up and implementation of INSPIRE technical recommendation and requirements for discovery and view service
- Technical infrastructure development and maintenance
- INSPIRE data specification implementation for some themes from Annex I for newly collected data (the IGIS project products specifications)

Challenges and obstacles

Obstacles and solutions

? **Pricing and licensing**

Obstacle: Existing different business models for public entities operation (funded by government, commercial and others somewhere in between), complex legal framework

Solution: Developing and agreeing common pricing and licensing models for access to key geoinformation

? **Partnerships and willingness for cooperation**

Obstacle: Diverse range of development, needs and awareness among involved parties

Solution: Create a climate that enables collaboration by respect for all parties; to encourage spirit of cooperation and willingness to respond by realisation of realistic and useful goals (step by step approach)

? **Data quality**

Obstacle: No digital geodata, data not updated, incompleteness, incompatible formats

Solution: Data conversion to digital form, metadata tools development, standards for interoperability use

Challenges and obstacles

Challenges

Cooperation on national level

- Good atmosphere among stakeholders created through active participation in the working groups
- Exchange of different attitudes and respect of specific working conditions
- Understanding how a user want/need/can access to geoinformation
- Increase of understanding of NSDI benefits
- Awareness of necessity for closer cooperation by working together toward a common purpose

Cooperation on regional level

- Similar historical and cultural background
- Use of close technical methodology and tools for cadastre and mapping
- Exchange of experience and good practise
- Building-up ground for respond in cross-border an emergency cases
- Balanced level of NSDI development in the region

Challenges and obstacles

Human

Human resource stability and development based on team work

Nothing was gained by pessimism – doing nothing is not option!

Data

Any data is better than no data

Public availability of data – risk/doubt of data opening

Organisation

Step-wise approach with visible results

More of a focus should be given to the institutional rather than technical challenges

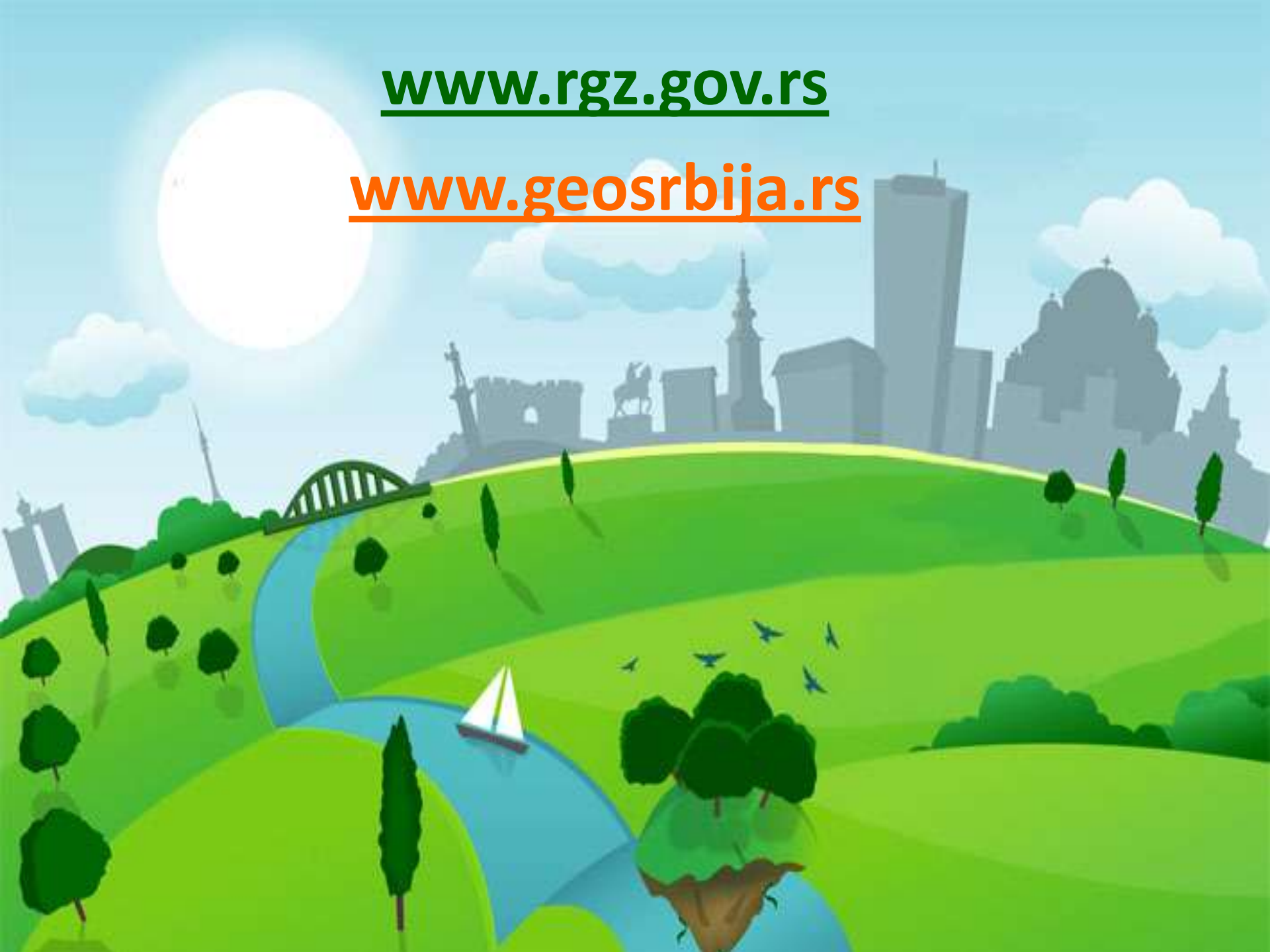
SDI must be easy to operate/ user friendly, be adaptable to the changing needs of society and organizations, and be flexible to adjust to advance technology

Others

Rapidly development of new technologies

Political (is it possible to overcome it?)

Long-term vision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