The IMPULS project

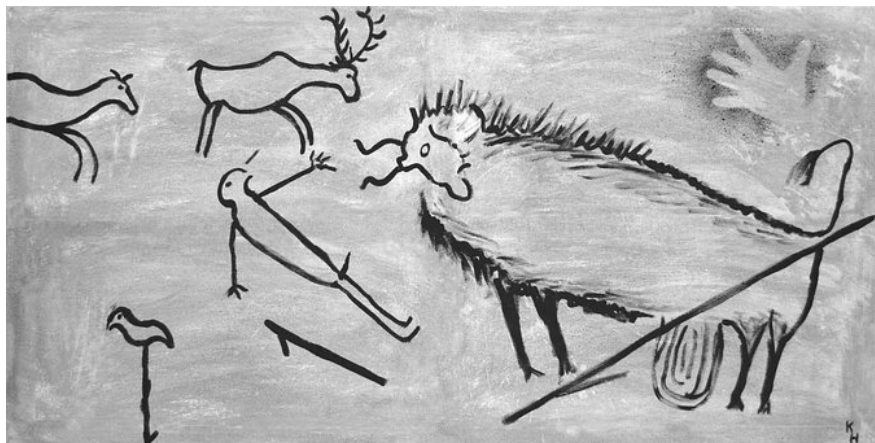## – building an infrastructure for exchange of digital data

"*Digitally Enabled Development for a Sustainable Future in Eastern Europe*"
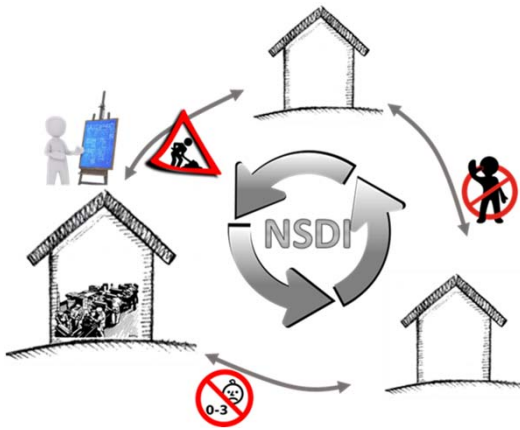
Anders Rydén – Lantmäteriet, Sweden

18-20 SEPTEMBER 2019
VRDNIK, SERBIA

impuls
SDI for Western Balkan

What are we talking about?

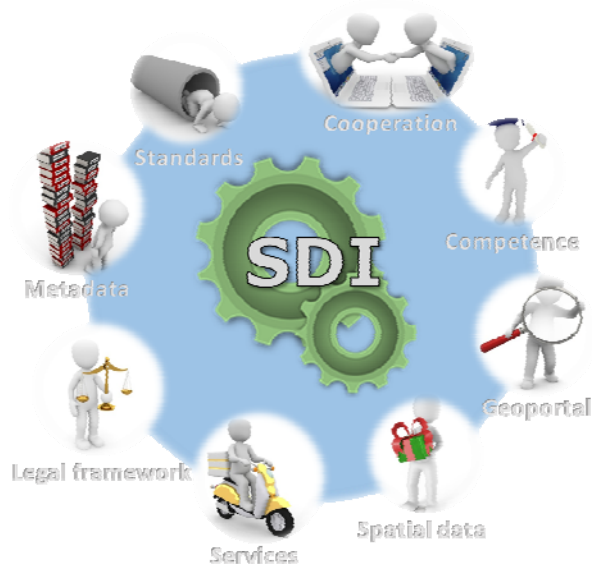**impuls**
SDI for Western Balkan

Sharing data over the Internet

Overcoming barriers for data sharing

- legal issues and frameworks that prevents data sharing between organisations,
- charging and licensing issues not allowing efficient reuse of data,
- or technical issues such as data are not complete, standards are not applied, poor documentation, etc.
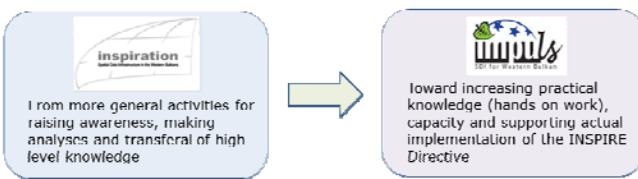

SDI components

Different components making up a NSDI. Depending on the starting point, different focus may be put on different components to achieve the desired results.
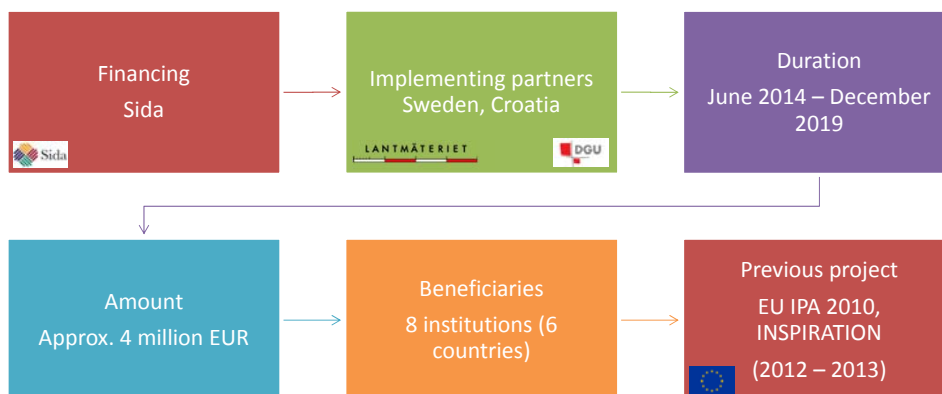
**IMPULS
a regional SDI project in the
Western Balkan**

The aim has been to support to the implementation of NSDI in participating countries, as a base for a regional SDI and in compliance with INSPIRE

IMPULS is a continuation of the INSPIRATION project, which was a 2-year project financed through EU with IPA funding.

Some basic facts

Financing Sida	→	Implementing partners Sweden, Croatia	→	Duration June 2014 – December 2019
Amount Approx. 4 million EUR	→	Beneficiaries 8 institutions (6 countries)	→	Previous project EU IPA 2010, INSPIRATION (2012 – 2013)

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Beneficiaries

- National Authority for Geospatial Information in Albania (ASIG)
- Federal Administration for Geodetic and Real Property Affairs of FBiH (FGA)
- Republic Authority for Geodetic and Property Affairs of the Republic of Srpska (GARS)
- Kosovo Cadastral Agency (KCA)
- Agency for the Real Estate Cadastre of North Macedonia (AREC)
- Real Estate Administration of Montenegro (REA)
- Republic Geodetic Authority of the Republic of Serbia (RGA)
- State Agency of Cadastre (prev. Immovable Property Central Registration Office of the Republic of Albania - IPRO)

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IMPULS outcome statements

1

BO's know how to contribute to an efficient SDI and have a clear view of the different SDI roles (user, producer and coordinator), including mutual respects between agencies having these roles throughout the region.

2

BO's promote usage of data from other sources, both national and regional, and actively uses the different components in a SDI (metadata, portal, services etc.) when producing, using and providing data.

3

BO's proactively drive the SDI-work, remove barriers for data sharing and actively develop and promote NSDI's by working in national and regional forums as well as using the network initiated by the IMPULS project

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Long-term impacts

- INSPIRE Directive is implemented in the region, enabling the beneficiary countries to meet the EU-requirements in this area

  INSPIRE

- Interoperable content and services are delivered efficiently, supporting the development of e-government in each country - in accordance with the PSI Directive

  Interoperability

- Contribution to the economic development, transparency of owner-ship and anticorruption processes, in accordance with SEE 2020

  Transparency & Economic development

IMPULS work packages

IMPULS

Education

| WP2 - Data Sharing Policy and Regulations | WP3 - Data Harmonization | WP4- Metadata and Quality Evaluation | WP5 - Dissemination ✓ Services ✓ Portal(s) | WP6 - Benefits ✓ Demonstrations ✓ Pilot Impl. |

WP1 – Project Management & Administration

INSPIRATION

Spatial Data Infrastructure in the Western Balkans

Approach and methodology

- 90 % work done at the respective BO
- 10% workshops and other joint activities
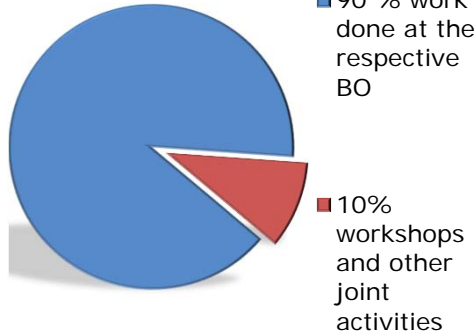
Seminars – information activities, presentations, discussions => increasing knowledge by setting knowledge exchange network among BO's, presenting best practices, preparing for tasks to be implemented, setting a base for next step

Workshops – learning by doing, hands on work => giving tangible results, e.g. specification, technical framework, draft law, first meta data profile, doing action plans, data sharing models, etc.

On-line trainings

Project drivers
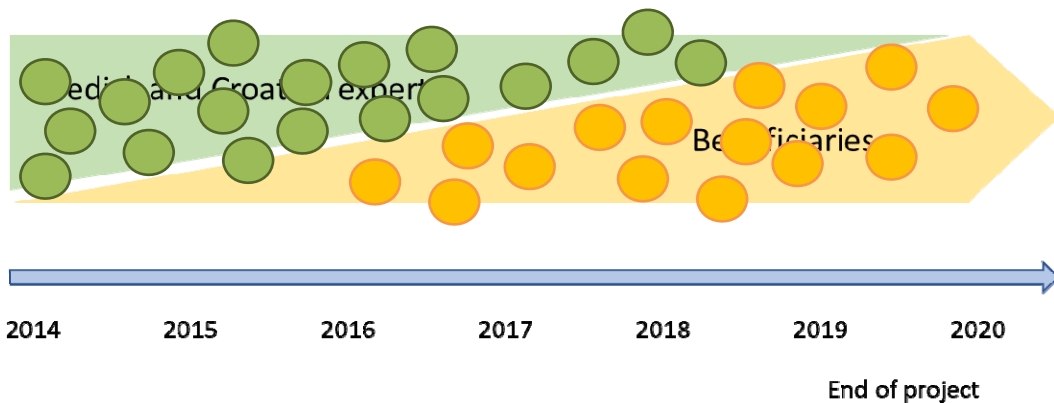
2014   2015   2016   2017   2018   2019   2020

End of project

Achievements

Legal framework

✓ 5 NSDI laws/regulations are in force

✓ + 1 NSDI law drafted and in procedure of acceptance

Coordination structures

✓ 6 BO's are nominated as national coordinators

✓ 6 BO's have a structure for coordination in place

In progress continuation of proactive work on the coordinating tasks in the respective country

Metadata

✓ Regional Metadata profile developed (INSPIRE compliant)

✓ National metadata catalogues developed (according to Regional profile)

Metadata catalogues can be harvested by other catalogues

Metadata entries

✓ Metadata produced for four datasets & services: AU, GN, EL, OI according to Regional profile

✓ Metadata produced for for additional dataset & services

In progress Continuation with development of metadata for additional datasets/services from BO's and stakeholders

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Harmonisation

✓ Increased knowledge in reading INSPIRE data specifications in BO's and stakeholders

✓ Data harmonised: AU, GN, EL, OI (in HALE and FME) - all BO's

✓ Some BO's harmonized additional datasets (AU, EL, GN, OI)

In progress Continuation of harmonization + support stakeholders in harmonisation work

View & Download Services

✓ Increased knowledge in develop. services in BO's and stakeholders

✓ View & Download services available for AU, GN, EL, OI Some BO's developed

✓ view/dw services for additional data sets

In progress To make all services INSPIRE compliant

In progress To support stakeholders in services development

In progress To work on issues such as licensing, copyrights, security and secrecy

Data sharing mechanisms

✓ The data sharing agreement between BO's for pilot signed

✓ Some BO established a data sharing mechanisms

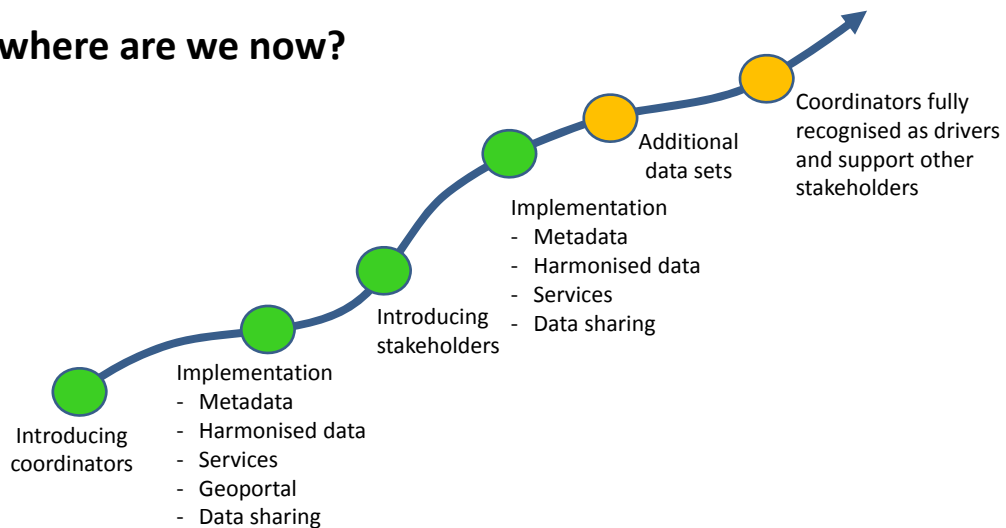In progress Establishing of national data sharing mechanisms in all BO

Monitoring

✓ created lists of data custodians and responsibilities

In progress To continue with the work of identifying data and data custodians for monitoring purposes

In progress To establish monitor of NSDI development in respective country

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So, where are we now?

Introducing coordinators

Implementation
- Metadata
- Harmonised data
- Services
- Geoportal
- Data sharing

Introducing stakeholders

Implementation
- Metadata
- Harmonised data
- Services
- Data sharing

Additional data sets

Coordinators fully recognised as drivers and support other stakeholders

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The road forward

The development of a NSDI is an evolutionary process – it will not stop because the project ends. Continue the good work done so far and:

- Continue the work to become a recognized national coordinator
- Broaden the scope and encourage more stakeholders in the process
- Successively identify and remove more barriers for data sharing
- Seek usecases

The IMPULS book

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Thank you for sitting in!