



Geospatial convergence in Kosovo

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Context

Republic of Kosovo is undergoing political, cultural and social transformation

Increasing recognition of the importance of geospatial information underpinning effective decision-making

Republic of Kosovo interested to become member of EU
-> a high priority given on the integration with the European Directives including the INSPIRE Directive

Recognising the importance of developing a National Spatial Data Infrastructure -> Kosovo Cadastral Agency given responsibility

Strategy

Initiative

- *Developing a strategy for NSDI of Republic of Kosovo*

Aim

- To transform the way geospatial data is shared within Kosovo so it may underpin national social and economic development to the benefit of all

Duration

- February 2014 – June 2015

Funding

- World Bank

Table of Content Strategy report

Introduction

Outcomes of the Strategy for NSDI

Outcomes for stakeholders

Strategic Actions

- Knowing what data we have and avoiding duplication
- Common geospatial reference data
- Establishing an infrastructure for sharing information
- Skills and Knowledge
- Governance and Leadership

Costs and Benefits

Content Strategy report II

Appendices

1. Background to the creation of the NSDI Strategy
2. Development of the NSDI-Strategy and list of stakeholders
3. Summary of operational changes that the implementation of NSDI-strategy will facilitate
4. EU INSPIRE Directive and Core reference geographies
5. Proposed governance structure for implementing strategy
6. NSDI-implementation cost estimates

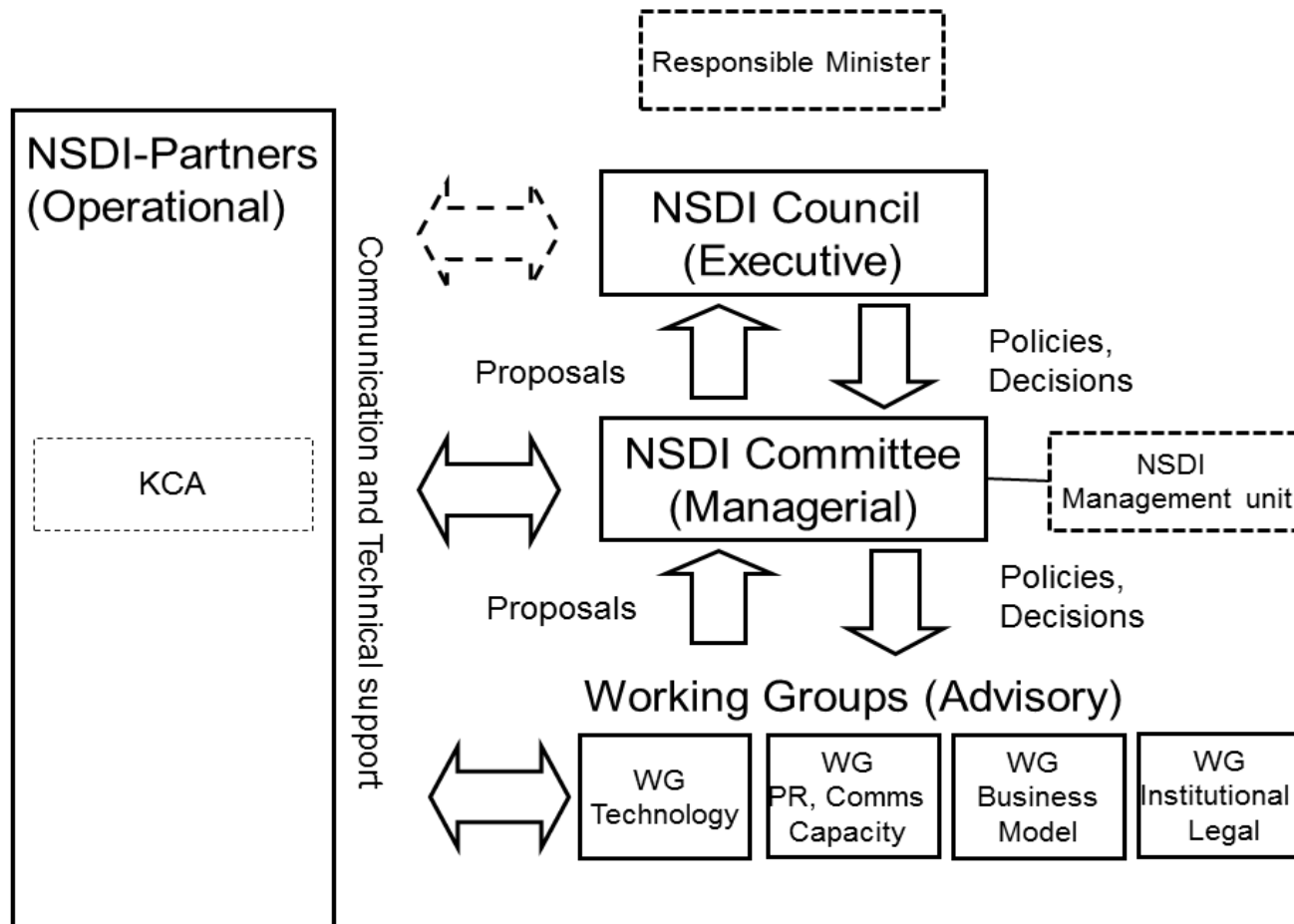
Highlight I

Overview of Stakeholders involved:

- 7 NSDI Stakeholders Group meetings
- 90 persons
- 35 public and private entities

Highlight II

Proposed governance structure



Highlight III

NSDI-implementation Cost estimates

Activity	One-time Set-up Cost (in Euros)	Ongoing Cost per year (in Euros)
1. METADATA	11,800	4200
2. DATA	231,000	7200
3. SERVICES	87,000	54,200
4. INFORMATION TECHNOLOGY	760,000	235,000
5. STANDARDISATION	5000	1800
6. GOVERNANCE	 	74,600
7. DATA SHARING	25,000	5000
8. CAPACITY BUILDING	15,000	10,000
9. APPLICATIONS	106,800	
10. OUTREACH	5700	10,700
11. PERFORMANCE MANAGEMENT	2400	1200
12. RESEARCH		25,000
13. UNFORESEEN	50,300	21,100
TOTAL	1,300,000	450,000

Highlight IV

Overview of existing geospatial datasets in Rep. of Kosovo

Table 1, Data themes INSPIRE ANNEX I						
Theme	Data set ¹	Scale/resolution	Organisation responsible (Producer)	Metadata (N/Y/ISO) ²	Can be discovered, viewed, downloaded ³	
I-1	Coordinate Reference Systems ⁴	<u>KosovaREF 0.1</u>	Kosovo Cadastral Agency	Y		
I-2	Geographical grid systems (harmonised multi-resolution grid)	<u>Kosova REF 0.1</u>	Various Scales	Kosovo Cadastral Agency	Y	
I-3	Geographical names	<u>Place names - Toponyms</u>	Several scales	Kosovo Cadastral Agency	N	2
I-4	Administrative units (local, regional and national boundaries)	Cadastral zones Municipalities borders Country border	Depends	Kosovo Cadastral Agency	Y Y Y	
I-5	Addresses	<u>Address Registry</u>		Kosovo Cadastral Agency	Y - ISO	2
I-6	Cadastral parcels	<u>Cadastral parcel registry</u>	Any scale	Kosovo Cadastral Agency	Y - ISO	2
I-7	Transport networks (road, rail, air, water and links between networks)	<u>Road / Train / Air</u> Roads Roads	Various	Ministry of Infrastructure Association of Municipalities Kosovo Cadastral Agency	 N	 2
I-8	Hydrography (including marine areas, all water bodies, river basins, etc.)	<u>Hydrography Surface water, Rivers with branch Lakes</u> Rivers	Various	<u>Hydrometeorological</u> Institution of Kosovo/ Environmental Protection Agency of Kosovo	 N	 2
I-9	Protected sites (designated by national, EU or international legislation)	<u>Protected sites polygon and points</u>	Various	<u>Institut for Protection of Nature in Kosovo/</u> Environmental Protection Agency of Kosovo	N	2

Highlight V

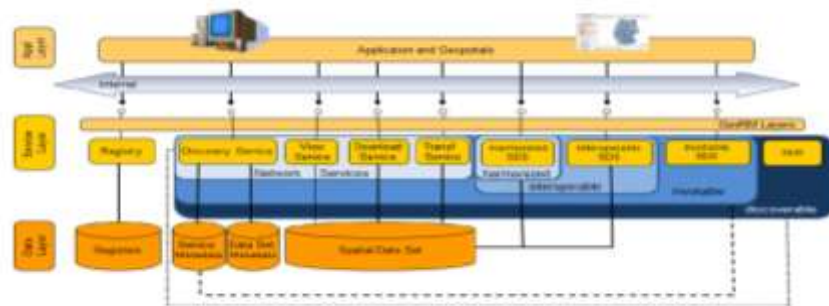
Use Cases

Simple Use Cases

- Kosovo Cadastral Agency
Geoportal supporting emergency situations/Emergency Use Case
- Kosovo statistics Agency
Statistical view of Population Census/Foreign Entrepreneur
- Independent Commission of Mines and Minerals
Provision of licenses for companies and mining areas/Foreign Investments

Complex Use Case / Pilot Application

- Application to support agri-environmental policy



Highlight VI

Roadmap from approval NSDI strategy (Autumn 2015 - Mid 2017)

Incremental and sustainable implementation

No	By	Activity	Outcome	Indicator	Note	Who
1	12/2015	Government approval of NSDI strategy	Approval will allow implementation procedures to go ahead	Government statement published		Government of Kosovo
2	12/2015	Government statement of intent regarding NSDI	Policy declaration by Government of Kosovo	Government statement published	Statement to show government's intentions including the commitment of public bodies and the reserving of budget funds for first 5 years	Government of Kosovo
3	12/2015	Stakeholder's sign declaration to show their commitment	The signed declaration is a public statement of stakeholders commitment to put resources and energies into the NSDI	Stakeholder declaration signed and published	The stakeholder declaration could be an outcome of the 2nd Council meeting – allowing all those involved to be present and able to discuss the declaration	All stakeholders in the NSDI Council
4	12/2015	Data Policy agreed by government	Having a well communicated data policy creates clarity for all stakeholders	Published data policy (including metadata)	The data policy should be a clear statement following the topics listed in the NSDI Strategy i.e. pricing, standards, maintenance, responsibilities, licensing, sharing etc.	Government of Kosovo
5	12/2015	Each stakeholder (see list of Council members) to produce an NSDI implementation plan	A plan showing areas of responsibility, objectives, inputs, activities, outputs, costs, timescales and resource implications	NSDI responsibility plan for each stakeholder	The plan should be drawn up to a common template and will provide each stakeholder with an indication of their inputs and obligations to the NSDI, including involved costs	All stakeholders in the NSDI Council
6	12/2015	Long term financial programme	A long-term commitment from the Ministry of Finance will provide investment certainty for the stakeholders.	Long term financial programme and commitment from the Government of Kosovo	This is needed to provide confidence in the NSDI, so stakeholders can contribute resources and investment in the knowledge that the long term viability of the NSDI is assured – see Policy section above also	Government of Kosovo – Ministry of Finance

Highlight VII

And others

- Overview relevant policies
- Vision/Mission Statements
- List of Key objectives
- List of key stakeholders
- Funding Model
- Partnering Model
- Roles and Responsibilities
- Performance Monitoring / KPIs
- Risk Management / Register
- Meeting / Visit Reports
- **STAKEHOLDER INVOLVEMENT**

Link with Geospatial convergence

Addressing the need for greater coordination among policy-makers, technology providers and users

to benefit the spatially enabled society of Kosovo, and

to highlight geospatial workflows as an enabler by facilitating more informed decision making among the stakeholders

Remarks / Comments / Questions

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