Dr. Primož Mavsar Dr. Andreja Švab Lenarčič

GEO Slovenia – Spatial Information Hub SLO4D – Green Slovenian Location Framework

Dani IPP-a 2024, 28.05.2024

greenslo.gu@gov.si







Welcome

Project Partners





THE RECOVERY AND RESILIENCE PLAN



The project is included in the Slovenian plan, funded by the Recovery and Resilience Plan.



REPUBLIC OF SLOVENIA

MINISTRY OF NATURAL RESOURCES AND SPATIAL PLANNING

SURVEYING AND MAPPING AUTHORITY OF THE REPUBLIC OF SLOVENIA



REPUBLIC OF SLOVENIA

MINISTRY OF NATURAL RESOURCES AND SPATIAL PLANNING

DIRECTORATE FOR SPATIAL PLANNING AND CONSTRUCTION



REPUBLIC OF SLOVENIA

MINISTRY OF NATURAL RESOURCES AND SPATIAL PLANNING

WATER DIRECTORATE



REPUBLIC OF SLOVENIA

MINISTRY OF NATURAL RESOURCES AND SPATIAL PLANNING

SLOVENIAN WATER AGENCY



REPUBLIC OF SLOVENIA

MINISTRY OF THE ENVIRONMENT, CLIMATE AND ENERGY

ENVIRONMENT DIRECTORATE



REPUBLIC OF SLOVENIA

MINISTRY OF THE ENVIRONMENT, CLIMATE AND ENERGY

SLOVENIAN ENVIRONMENT AGENCY















Social Reality and Environmental Challenges vs National Commitments

The Needs for Space for Different Activities ...





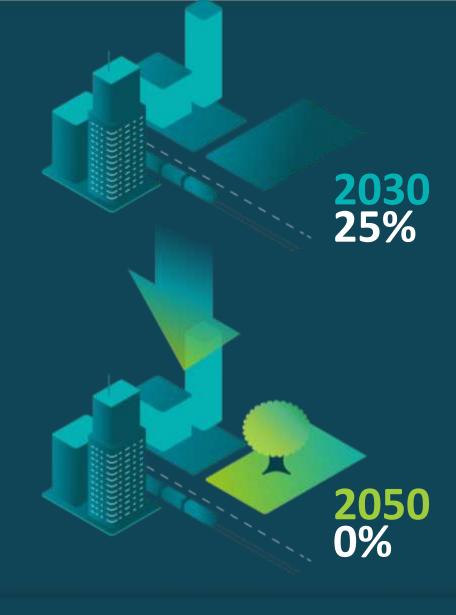




Social Reality and Environmental Challenges vs National Commitments

EU / National Commitments

- EU soil strategy until year 2030
 vision: to achieve good soil condition by the year
 2050 and until 2050 to achieve zero net land use.
- National Environmental Protection Program 2030
 reduction of the net annual increase in built-up
 land by 25% by the year 2030 and zero growth of
 built-up areas from year 2050 onwards.
- Spatial Development Strategy of Slovenia 2050
 (SPRS 2050) reducing the net annual growth of built-up land to 0% by 2050 and related directions.









Green Slovenian Location Framework SLO4D













Enabling Accesss

Making it useful

Data









SLO4D projects

MNVP, DzPG **GURS** MOPE, DzO **ARSO DRSV** MNVP, DzV Ministry of Surveying and Ministry of the Slovenian Water Ministry of Natural mapping Environment, Environment Directorate of Natural Resources and authority of Climate and Agency the Republic the Republic Space, Resources and of Slovenia Energy, Directorate for of Slovenia Space, Water Directorate for Space and the Directorate Construction Environment **Linking Databases** Linking of information systems **Process linking** Connecting people A common infrastructure for spatial information

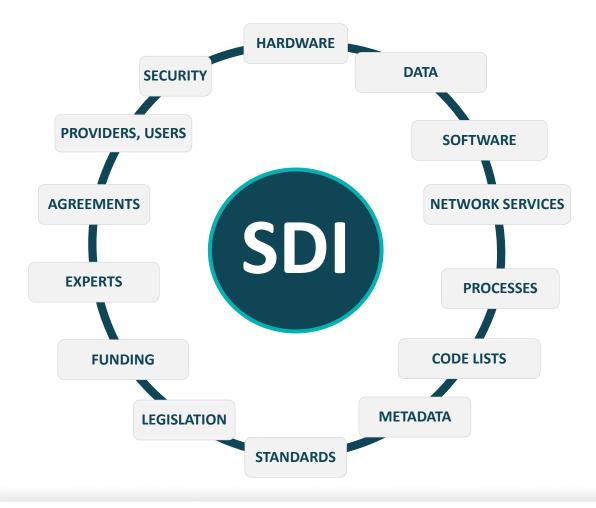








What is Spatial Data Infrastructure (SDI)?



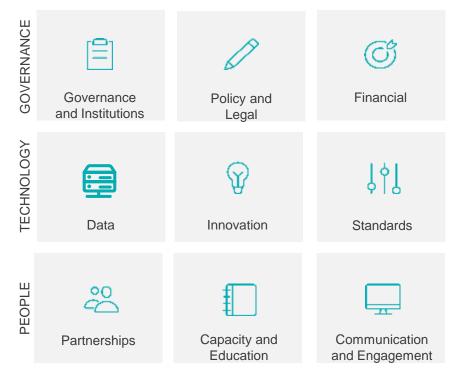






Slovene SDI -From INSPIRE to GEO Slovenia

Integrated Geospatial Information Framework (IGIF)



Strategic directions for improving the management of official geospatial information











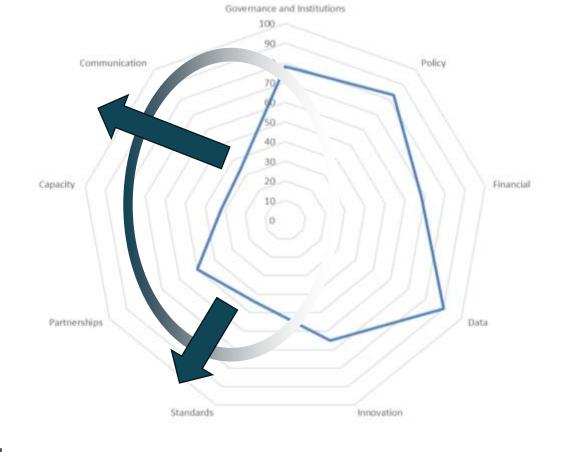
Slovene Spatial Data Infrastructure (SDI)

New SDI Strategy and Action Plan

- Poor OECD rating
- Bad IGIF spider web on soft parts
- A large amount of digitized databases
- Poorly described and accessible services

New SDI Strategy Vision

- It foresees a long-term system solution
- Based on IGIF and SLO4D guidelines
- It takes into account examples of good practices from abroad
- To Become the Pilot Region in Europe on SDI field









Project: Common Infrastructure for Spatial Information

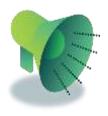












SDI

RECYCLE SPACE SLOVENIA

PROCESSES AND VALIDATION **SANDBOX**

CAPACITY BUILDING

PROMOTION

Concept

Circular Spatial Management Strategy Plan Modelling processes in the context of digital transformation of space and environment

User experience and data usage demonstrations for decision makers and end users Target training of experts and executives Raise awareness among the general population about the results of the project











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Se preden smo si lahko odpočili po tijemno ospesni konferenci, ki smo jo gostili s Kristalni palači v Ljudijani na tieno Strategje uvejanja prostora v Sloveniji in povezanega Krodrega gospodavjenja s. Z vetkim zadovojistvom vam sporočamo, da smo v okropu projekta Gao Stovenija gostati ugledno strokovnakimja sporočija postorskih informaca iz Sako, dr. Christinno Najar, ki nas je obiskala na Geodetski upravi.

DAVEC.

V diveru projekta Zeteri slovenski tokacijski skvir SLOVO in projekta - Stupni infrastruktura za prostorske informacje v projektu Zeteri stovenski liskacijski okvir v zmo v Kristalni prijači v Lijutiljani dne 23. oktobra.





DISTRIBUTION LEVEL PRODUCTION LEVEL **PROCESS** GUIDE

PLATFORM

- Knowledge base, Helpdesk
- Standarization, code lists, catalogues
- Geoinformatics team
- Inspire team

PROCESS DATA EXCHANGE

MUTUAL ELEMENTS

SOURCES

EXECUTED DATA

MUTUAL DATA SOURCES

PILLARS

- Real Estate
- Space
- Environment
- Waters
- Nature

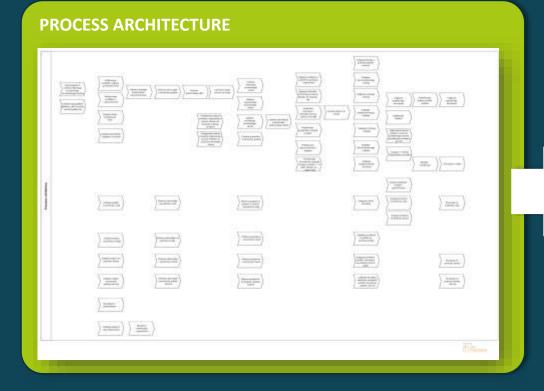




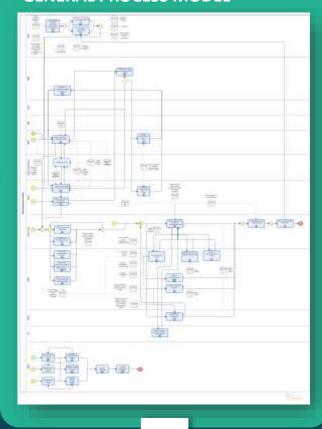




System Architecture









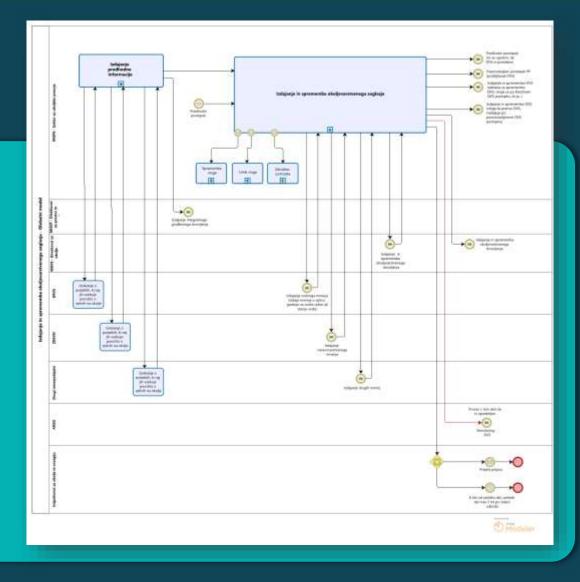






System Architecture Process Modelling

MODELING OF EACH INDIVIDUAL PROCESS











Why?

- Digital transformation of the entire spatial, real estate, and environmental sector.
- Process optimization.
- Improved support for users in need of services from various sectors.
- Support for green transition Recycle Space Slovenia - RSS.

https://www.geo-slovenija.si





























Land Use and Undeveloped Building Land

REPUBLIKA SLOVENIJA







Poplave 2023



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Vector Presentation of Water Lands

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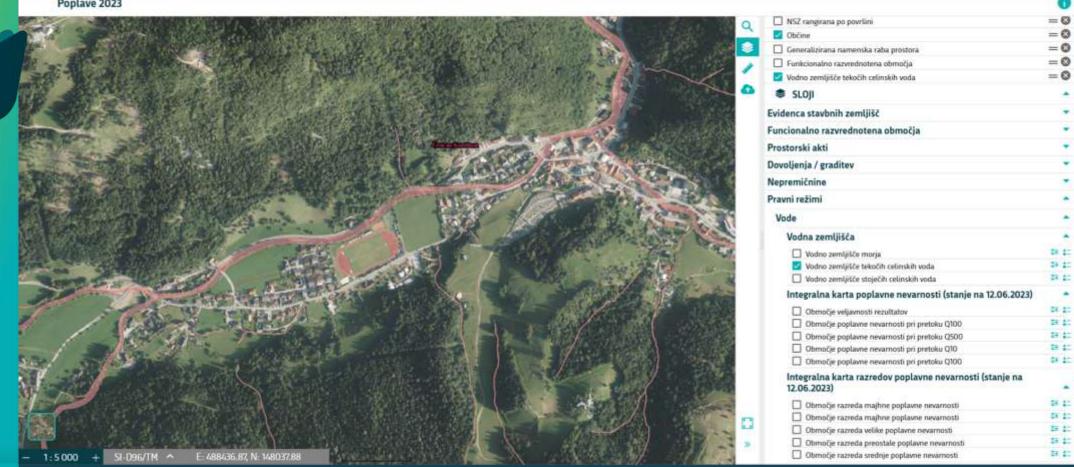








Poplave 2023









Q100 – the Line of Century Waters

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(Dostopnost

Poplave 2023









Q500 – Five Hundred Years Waters

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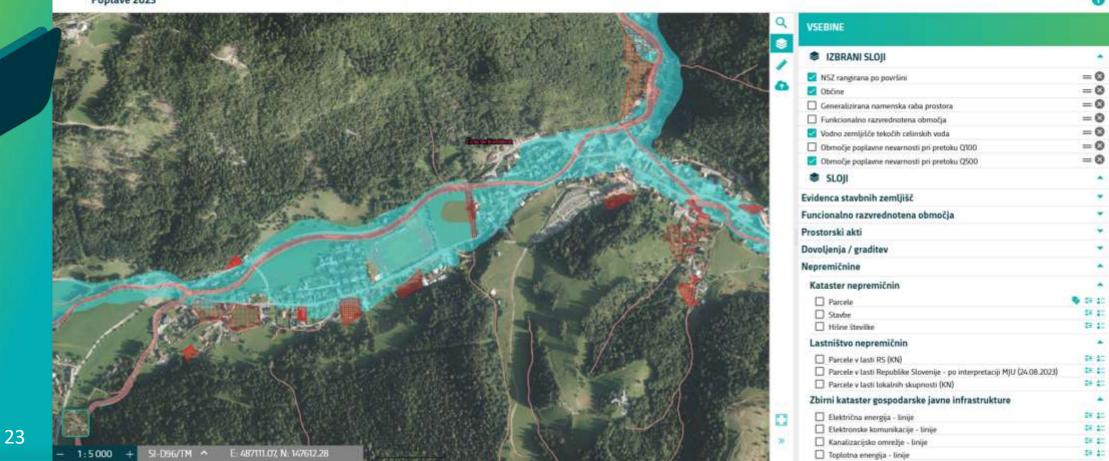
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Dostopnost

Poplave 2023













Summary and vision









Geo Slovenia after GreenSLO4D

Geo Slovenia has accessible, connected and comprehensive data available in the field of space, nature, water, environment and real estate.

Geo Slovenia has the largest collection of spatial data in Slovenia.

Geo Slovenia is a spatial information infrastructure, which is an important part of the national infrastructure for access to information.

Geo Slovenia is the first choice for supporting rescue and reconstruction after natural disasters.

Inclusion of other database managers, service providers.









Thank You for your attention.

"If you want to go far, go together."

African proverb















Circular Spatial Management -Recycle Space Slovenia (RSS)

Principles of Circular Space Management



- Revitalization of degraded areas (renovation, replacement).
- Building on vacant building land inside settlements.
- Building on other building land.
- Change of land use with considering compensatory measure.

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Matej Sotlar Tomaž Petek Martin Puhar







Green Slovenian Location Framework -SLO4D





Green

The results of connecting space, environment, water and nature are key to achieving climate goals, supporting the circular economy, preserving ecosystems and biodiversity.

Slovenian

State spatial and environmental systems included, which are key for Slovenia.

Location Framework

The location represents the foundation of connecting the contents of space, environment, water and nature.

4D

Transition to the fourth dimension (time), "for digital", connected 4 key systems (space, environment, nature and water).





