

INSPIRE in the Republic of Slovenia

Tomaž Petek



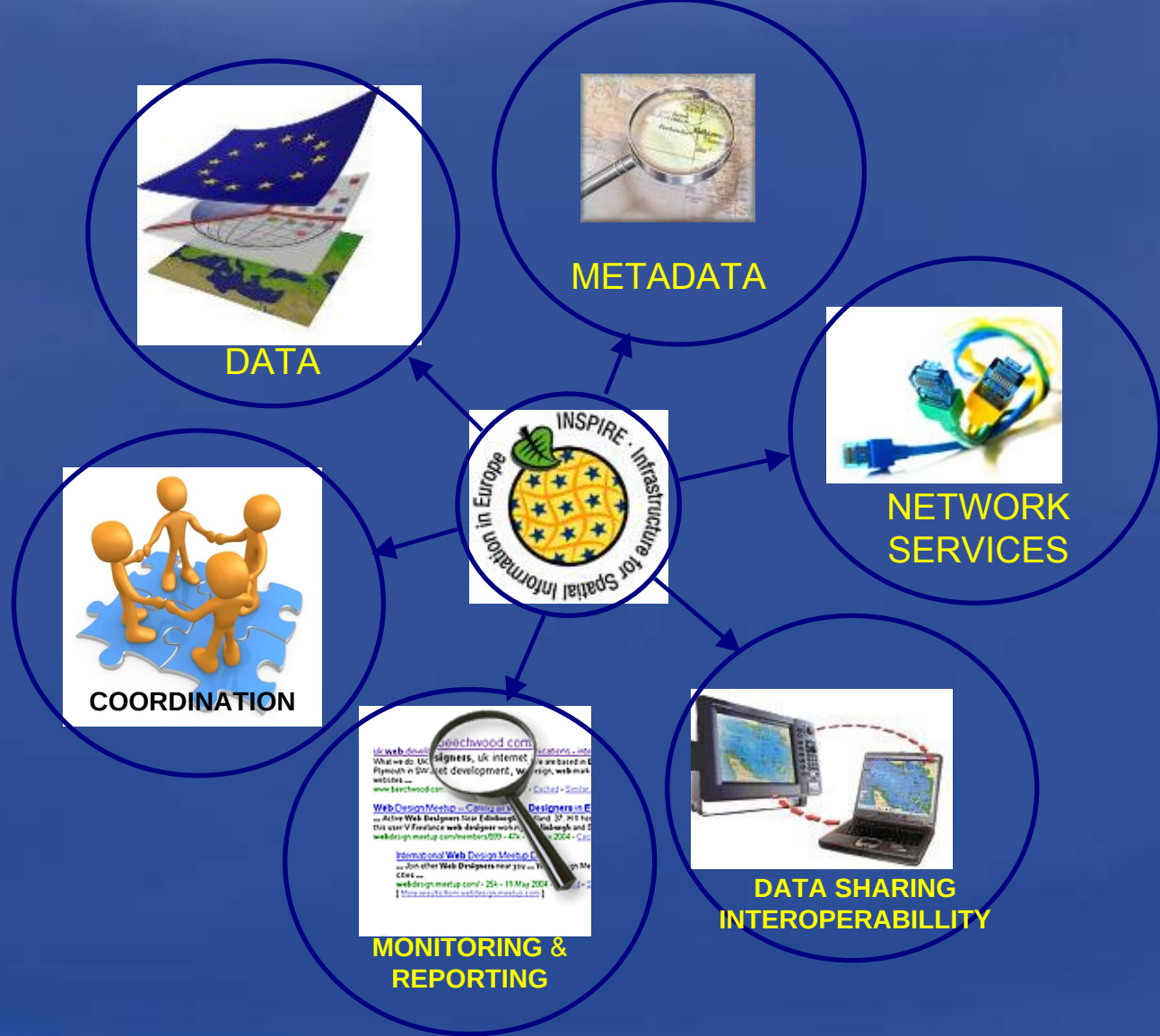
REPUBLIKA SLOVENIJA
MINISTRSTVO ZA OKOLJE IN PROSTOR
GEODETSKA UPRAVA REPUBLIKE SLOVENIJE

AIM OF PRESENTATION

- ELEMENTS OF SLOVENIAN SDI
- LEASONS LEARNED
- FUTURE ACTIVITIES
- CONCLUSIONS



ELEMENTS of Slovenian infrastructure for spatial information



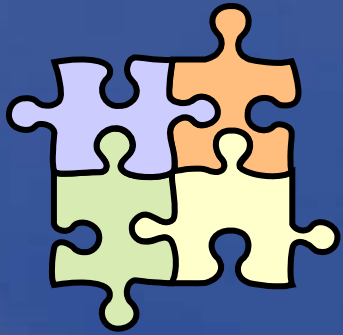
....for the effective compilation, management, access, delivery and use of the spatial information (Delgado, 2007).

LEGAL BACKGROUND

- Before INSPIRE - no official SDI in Slovenia
- Infrastructure for Spatial Information Act (*Official Gazette of RS, No. 08/2010*), transposed Directive INSPIRE in Slovenian national legislation; - determined National contact point
- Other legal acts and strategic documents:
 - Act on the Access to Information of Public Character,
 - Electronic Commerce and Electronic Signature Act,
 - Copyright and Related Rights Act,
 - Spatial Planning Act,
 - Real estate registration legislations
 - Slovenia's Development Strategy,
 - e-commerce strategy in the public administration bodies and the action plan for e-commerce in the public administration,
 - e-Government Strategy of the Republic of Slovenia.



The tasks of the national contact point:



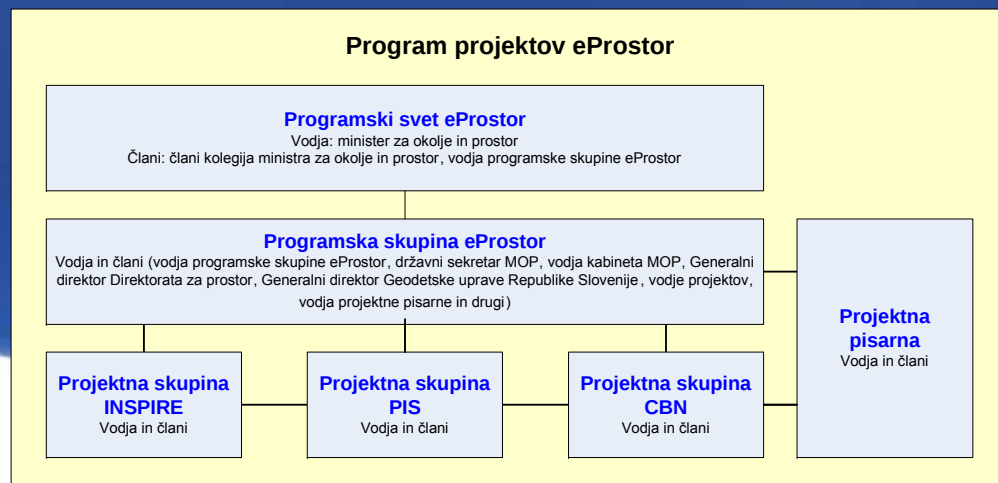
- managing and maintaining the **list of spatial data sets**;
- managing the **detailed descriptions** of the spatial data themes;
- managing the **spatial information geo-portal**;
- managing and maintaining the **metadata information system**;
- providing the **interoperability of the spatial data sets** and the services related thereto;
- preparing the **proposals of operational programmes** of the Government under Article 20 of ISI Act;
- executing the **implementing rules** of the INSPIRE Directive in Slovenia;
- preparing and supplementing the infrastructure for spatial information strategy;
- preparing the **programme of activities** and measures to meet the requirements for establishing the infrastructure for spatial information;
- preparing the **reports on providing the infrastructure** for spatial information for the European Commission





COORDINATION AND ORGANISATIONAL ISSUE

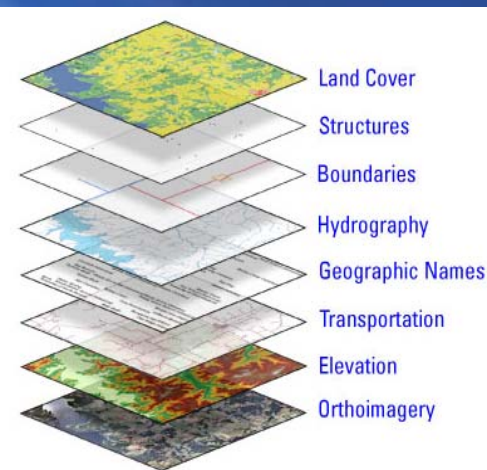
- National contact point - Surveying and Mapping Authority of the Republic of Slovenia, (LMO, IOC_TF)
- Slovenian member of European INSPIRE Committee
- Inter-department coordination group - strategic body of stakeholders
- Ad Hoc - Working groups - for metadata, standards, interoperability
- Project group for e-Spatial program



INSPIRE STAKEHOLDERS



Ministry of Environment and Spatial Planning
Surveying and Mapping Authority,
Environmental Agency of the Republic of
Slovenia,
Inspectorate for construction and environment
Ministry of Justice
Ministry of Public Administration,
Ministry of Agriculture, Forestry and Food,
Slovenia Forest Service,
Ministry of Defence,
Administration of the Republic of Slovenia for
Civil Protection and Disaster Relief,
Ministry of Culture,
Ministry of the Economy,
Ministry of Health,
Ministry of the Interior,
Statistical Office of Slovenia
Geological Survey of Slovenia,
Geodetic Institute of Slovenia,
Biotechnical Faculty,
Fisheries Research Institute of Slovenia,



MONITORING & REPORTING

11 SERVICES
88 SPATIAL DATASETS
16 DATA PROVIDERS



INSPIRE
Infrastructure for Spatial Information in Europe

Member State Report: SLOVENIA

	Existence	Compliance	Extend	Compliance	MD Accessability	DS Accessability	Use	Compliance
Indicator Name	MDi1	MDi2	DSi1	DSi2	NSi1	NSi2	NSi3	NSi4
Indicator Value	77%	0%	95%	0%	74%	69%	0	0%
Numerator	68	0	1.505.338	0	65	53	0	0
Denominator	88	88	1.583.794	77	88	77	0	0

SLOVENIAN GEO-PORTAL



Slovenski INSPIRE Geoportal


[NOVICE](#)


[SEZNAM ZBIRK](#)


[STORITVE](#)


[PREDPISI IN GRADIVA](#)





Osební vpogled v podatke o lastnih nepremičnini

Spletna aplikacija, ki omogoča vpogled v podatke o nepremičninah na območju Republike Slovenije

[Povezava do aplikacije](#)

Prostorski portal

- [Podatki o lastnih nepremičninah](#)
- [Atlas okolja](#)
- [PreGIZ](#)
- [Evidenca trga nepremičnin](#)
- [Naravovarstveni atlas](#)
- [Pregledovalnik kart](#)
- [Več aplikacij](#)



METAPODATKOVNI SISTEM

ZADNJE NOVICE

02 Nov 2010

Poročilo o slovenskem trgu nepremičnin za prvo polletje 2010

GURS je na današnji novinarski konferenci predstavila obveščanje lastnikov nepremičnin o poskusnem izračunu vrednosti nepremičnin

01 Nov 2010

Obveščanje o poskusnem izračunu vrednosti nepremičnin

Geodetska uprava Republike Slovenije je v skladu z določili Zakona o množičnem vrednotenju nepremičnin poskusno izračunala vrednost nepremičnin.

[Več novic](#)

INSPIRE predstavlja kratico za infrastrukturo za prostorske informacije v Evropi in jo uvaža Direktiva 2007/2/ES Evropskega parlamenta in Sveta o vzpostavitvi infrastrukture za prostorske informacije v Evropski skupnosti (INSPIRE) (UL L št. 108 z dne 25. 4. 2007, str.1). Direktiva je bila uveljavljena 15. maja 2007 in določa pravne okvire za vzpostavitev in delovanje evropske prostorske podatkovne infrastrukture, ki predstavlja zbir medopravičnih infrastruktur za prostorske informacije posameznih držav članic. Inspire je najlažje razložiti skozi tri vidike interoperabilnosti:

- Organizacijski vidik ... težnja po sodelovanju, poenostavljanju procesov, odpravi administrativnih ovir (koordinacija)
- Semantični vidik ... potreba po razumevanju prostorskih podatkov (metapodatkovni sistem)
- Tehnični vidik ... uporaba sodobnih informacijskih tehnologij v sistemih za upravljanje in uporabo prostorskih podatkov (tehnologija spletnih servisov)

Uveljavljeni predpisi



Predpisi (EU in slovenska zakonodaja), ki so povezani z direktivo INSPIRE in slovensko infrastrukturo za prostorske informacije

[Uveljavljeni predpisi](#)

Povezave



Direktiva INSPIRE velja za prostorske podatke, ki se nanašajo na območje držav članic EU, so v digitalni obliki, vodeni s strani javne uprave in se nanašajo na sklope podatkov, navedenih v prilogah I, II in III k direktivi INSPIRE. Podatki morajo biti na voljo v obliki in na način, usklajen z INSPIRE podatkovnimi specifikacijami.

[Povezave](#)

[KOLEDAR](#)

[DOGODKI](#)

<< **November 2010** >>

Pon	Tor	Sre	Čet	Pet	Sob	Ned
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

2010 Geodetska uprava Republike Slovenije - Vse pravice pridržane.

http://www.geoportal.gov.si

METADATA

GeoNetwork - Portal prostorskih podatkov in informacij - IBM Lotus Notes

Datoteka Urejanje Pogled Ustvari Dejanja Programček Pomoč

Naslov http://prostor3.gov.si/imps-test/srv/sl/main.ho

Delovni prostor Tomaž Petek - Prejeto Fw: Povabilo: predstavitev... ppt za ministra Fw: Namestitev IMPS DISTRIBU... GeoNetwork - Portal prostorskih...

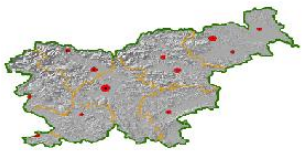
METAPODATKOVNI SISTEM

Domov | Pomoč | Slovenščina

Uporabniško ime Geslo Prijava

KAJ?

KJE?



- Vse -

Iskanje

Ponastavi Napredno Možnosti

- PODATKI O STAVBAH - STAVBE
- REGISTER PROSTORSKIH ENOT - RPE
- GEODETSKE TOČKE - GT
- TOPOGRAFSKI PODATKI merila 5000 - DTK 5
- DIGITALNI MODEL VIŠIN - DMV0125 - DMV0250 - DMV1000
- DIGITALNI ORTOFOTO - DOF050
- DIGITALNI ORTOFOTO - DOF025
- ZBIRNI KATASTER GOSPODARSKE JAVNE INFRASTRUKTURE - ZK GJI
- ZEMLJIŠKI KATASTER - zemljiško katastrski prikaz
- REGISTER ZEMLJEPISNIH IMEN - REZI

Vrsta vira

- Operates O - NI PODATKA
- Internetni Spletni vir
- Jezik vira

2. RAZVRSTI Kategorija teme

3. KLJUČNA B

Done

start

GeoNetwork... Intel PR...

IŠČITE PO SLOVENSkih PROSTORSKIH METAPODATKIH USKLAJENIH Z DIREKTIVO INSPIRE



1. OPREDELITEV

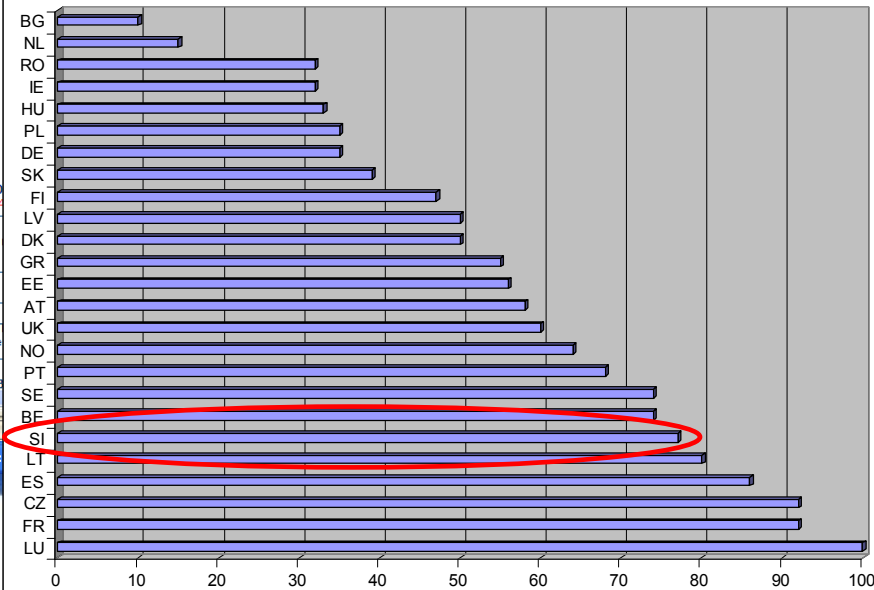
Naslov vira

Povzetek vira

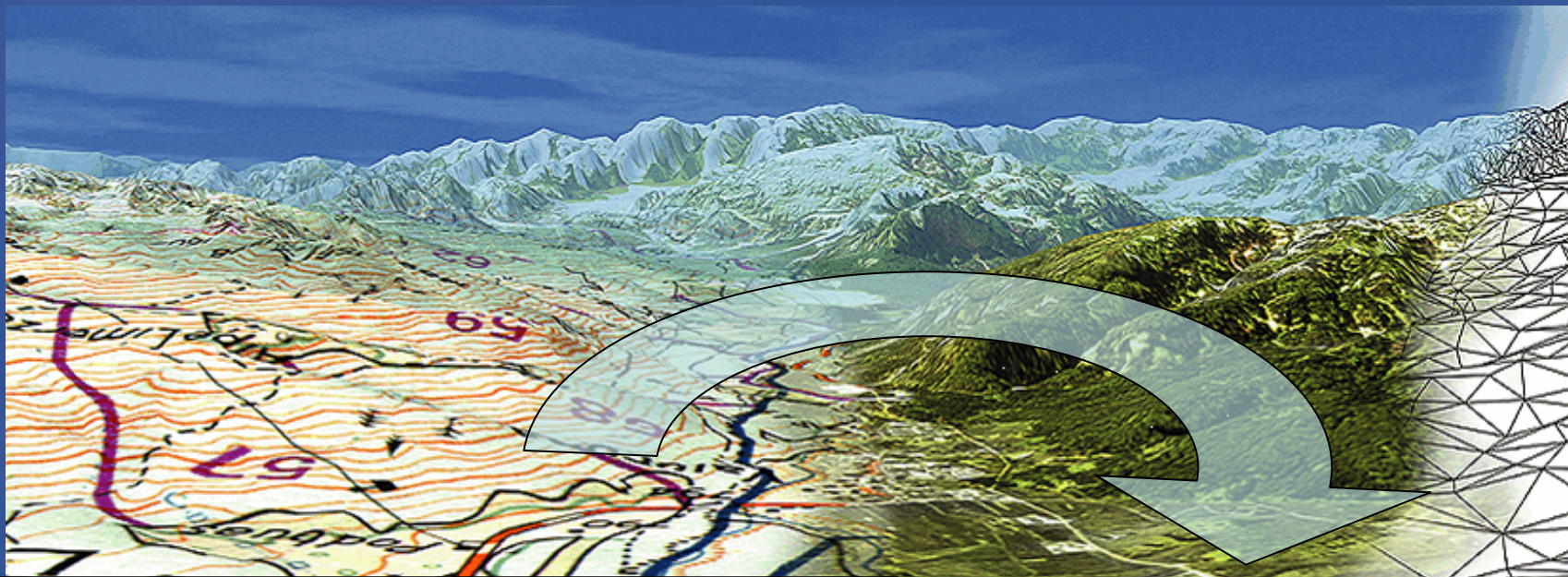
PODATKI O STAVBAH - STAVBE

Podatkovni niz prikazuje grafične in atributne podatke o stavbah in delih stavb, ki jih uporabnik podatkov prejme v izmenjevalnih datotekah.

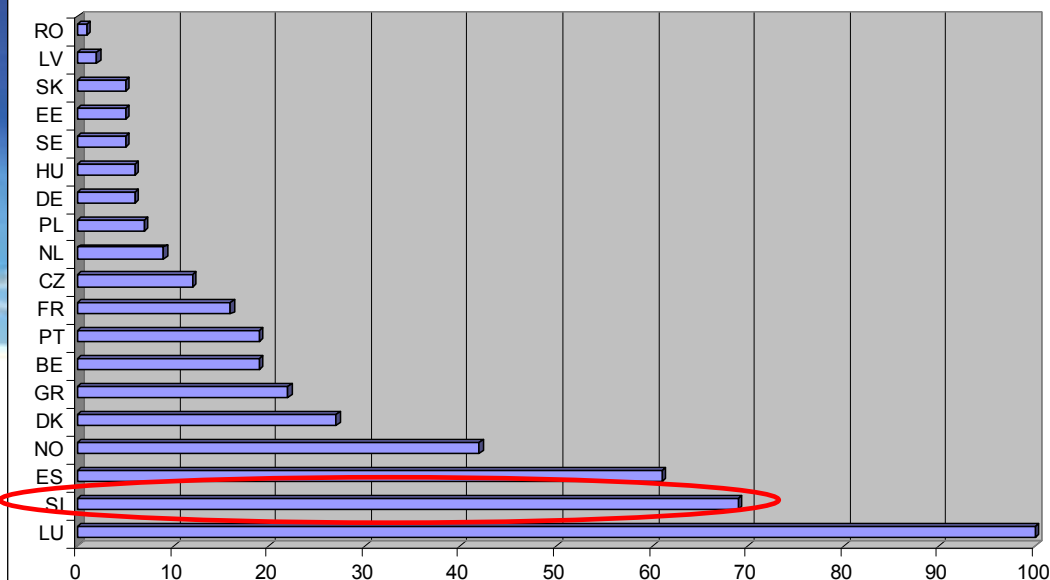
Existence Metadata (MDi1)



SPATIAL DATA



Accessibility data sets through view & download services (NSI2)

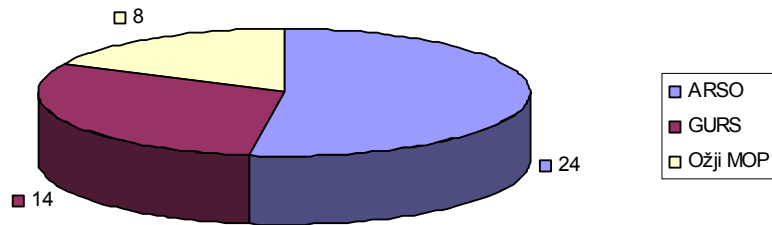




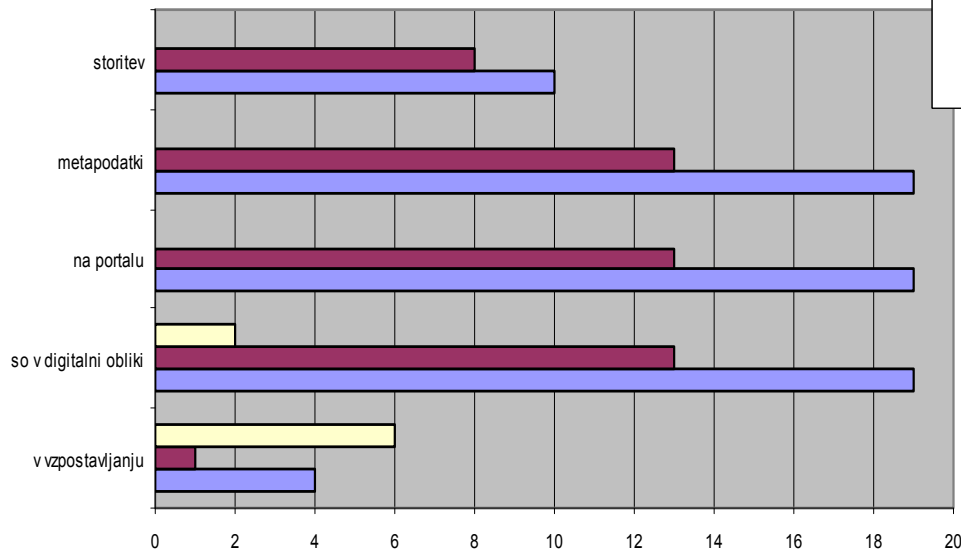
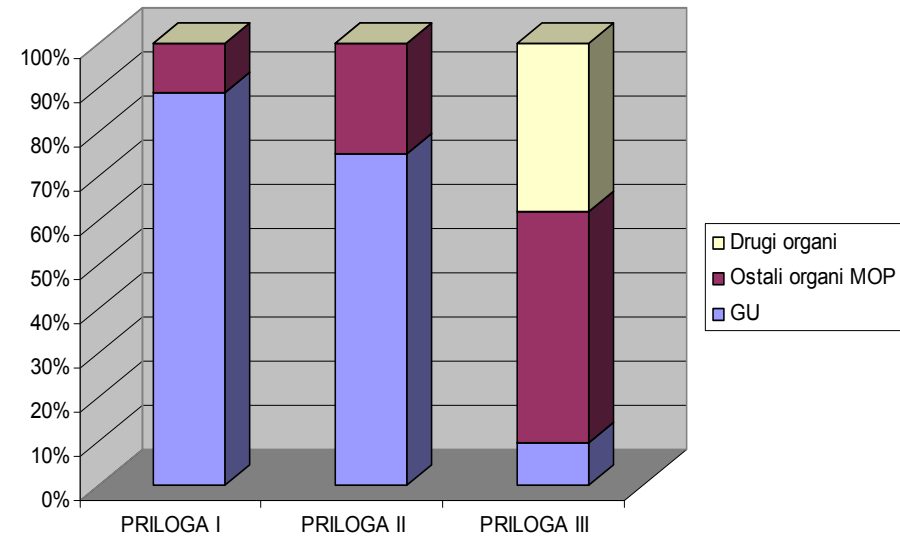
DATA AND SERVICES



MOP ima z zakonom predpisanih 46 zbirk prostorskih podatkov



INSPIRE tematike po organih



■ Ožji MOP 8
■ GURS 14
■ ARSO 24



**SLOVENIAN
SPATIAL DATA
INFRASTRUCTURE**

For my eyes only...

OUR DATASETS

Land use

Land cadastre

Register of citizens

Register of companies

Register of buildings

Topographical database

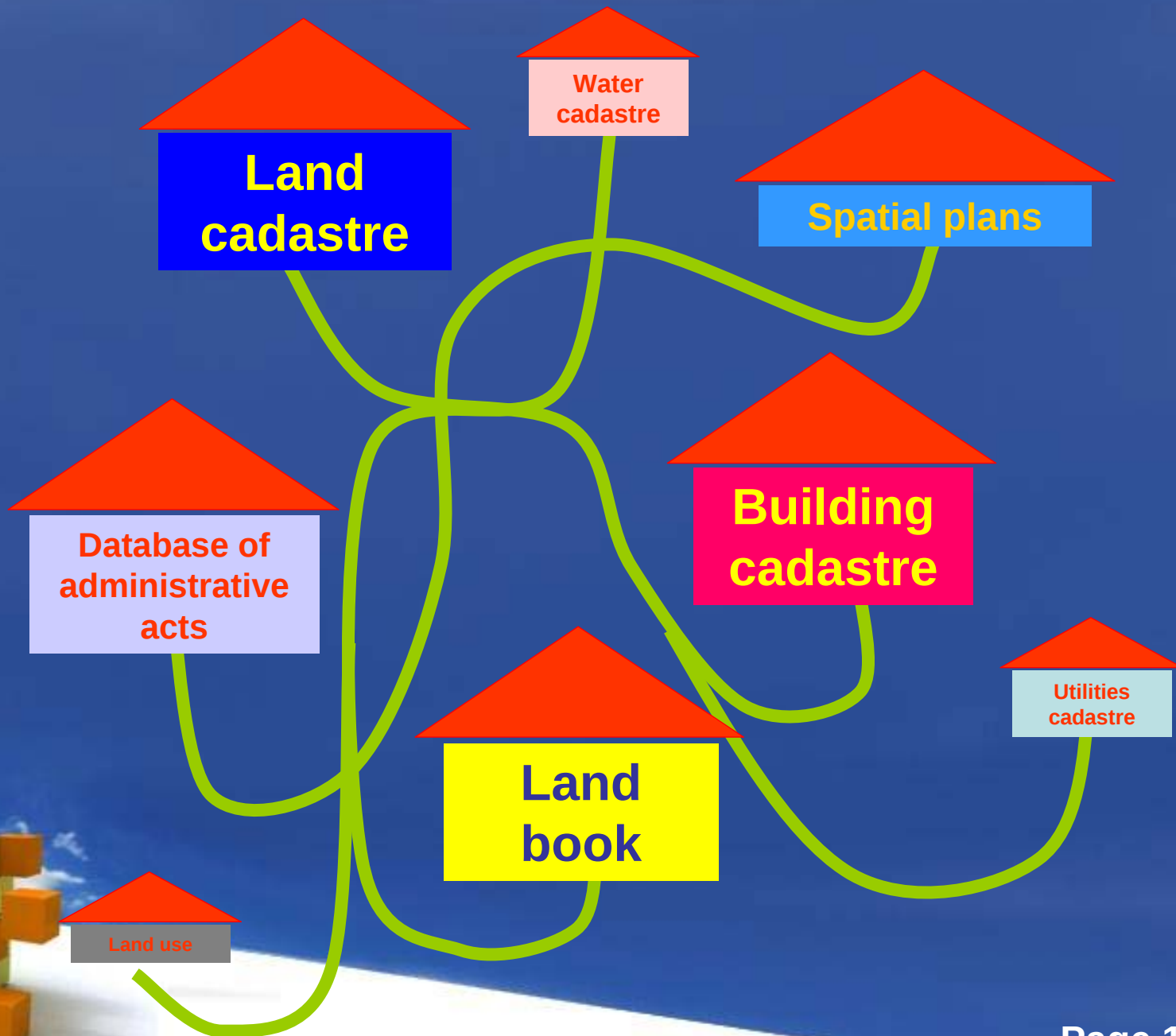
Land Book

Cartographical datasets

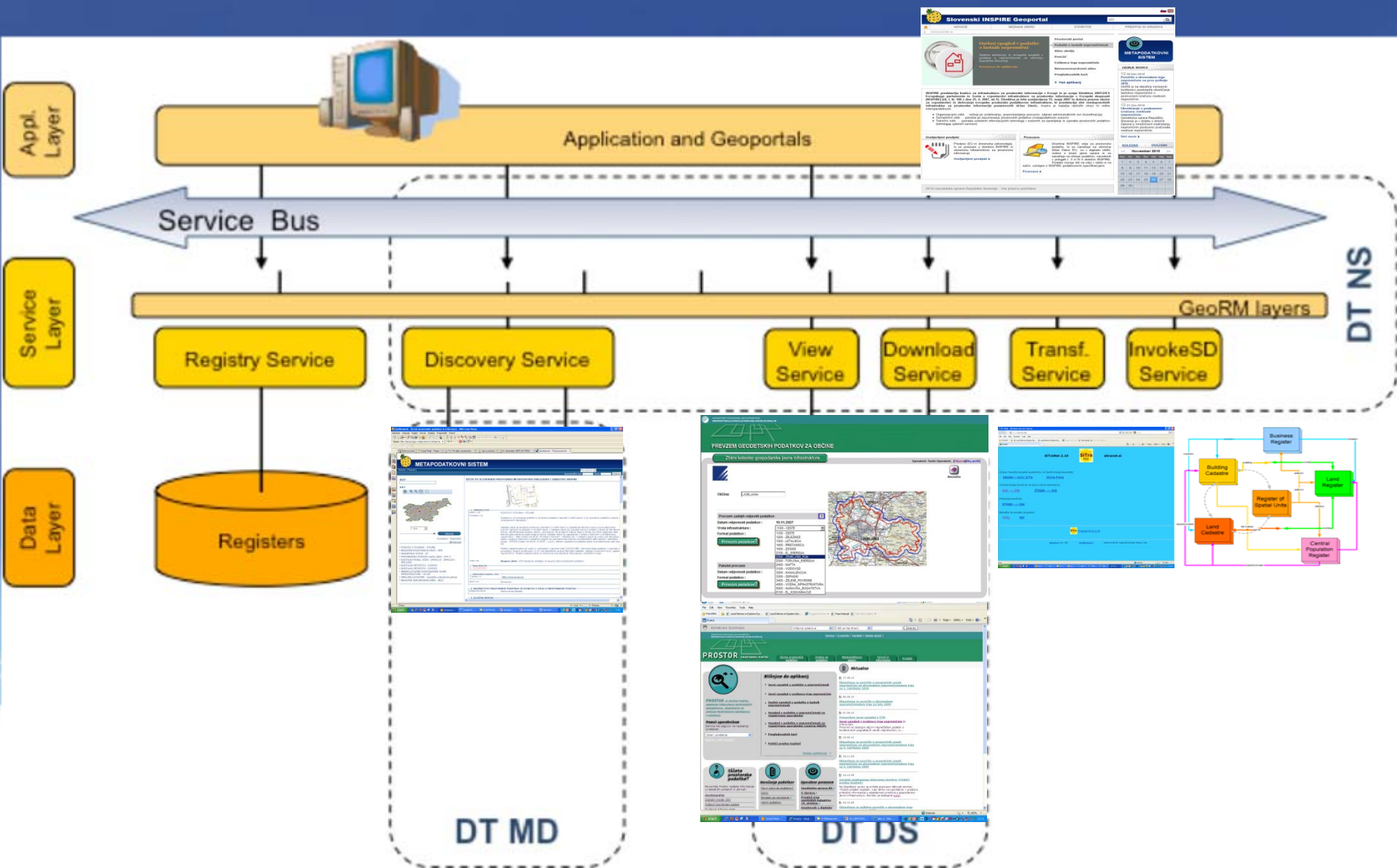
This is
ours!



Interoperability of spatial datasets and services

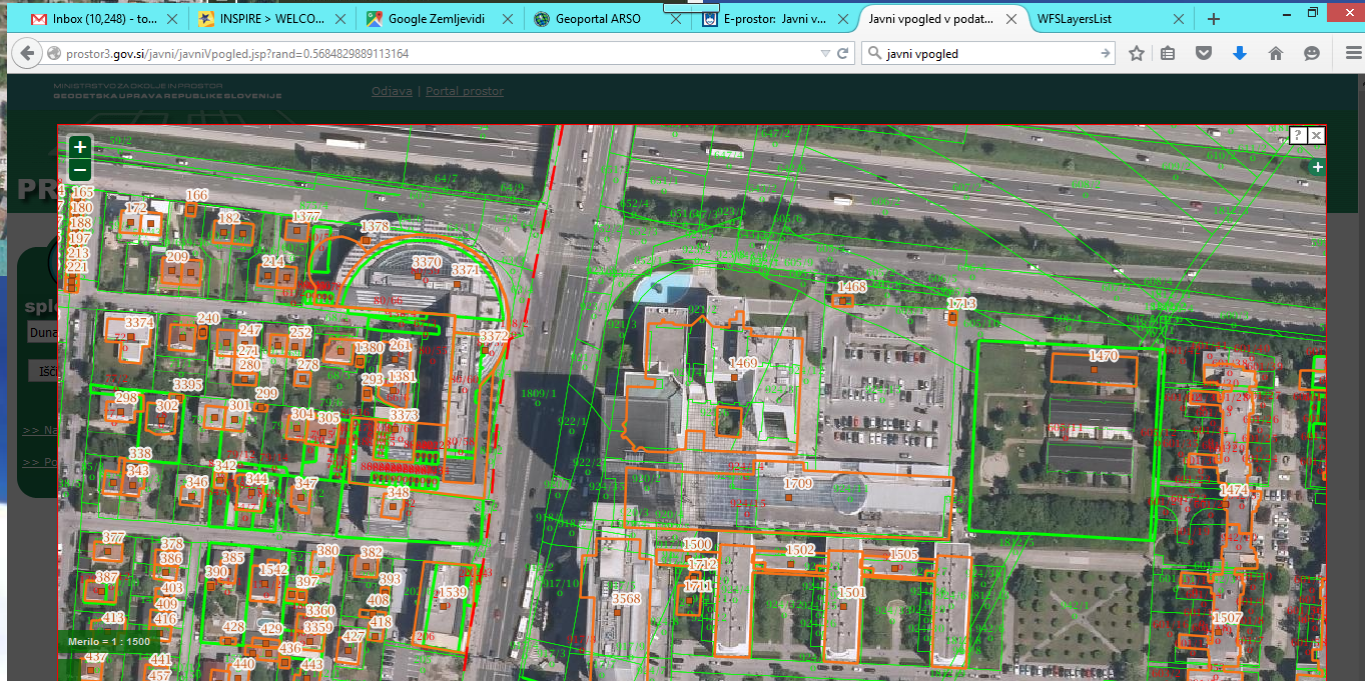
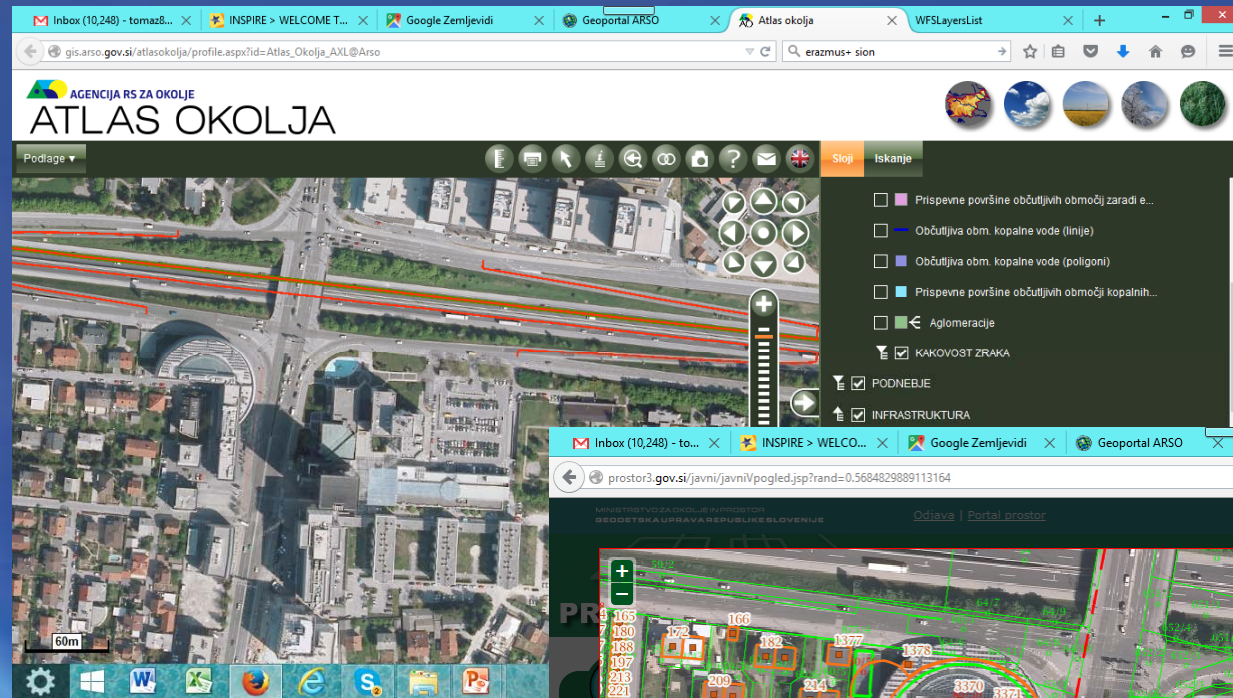


NETWORK SERVICES

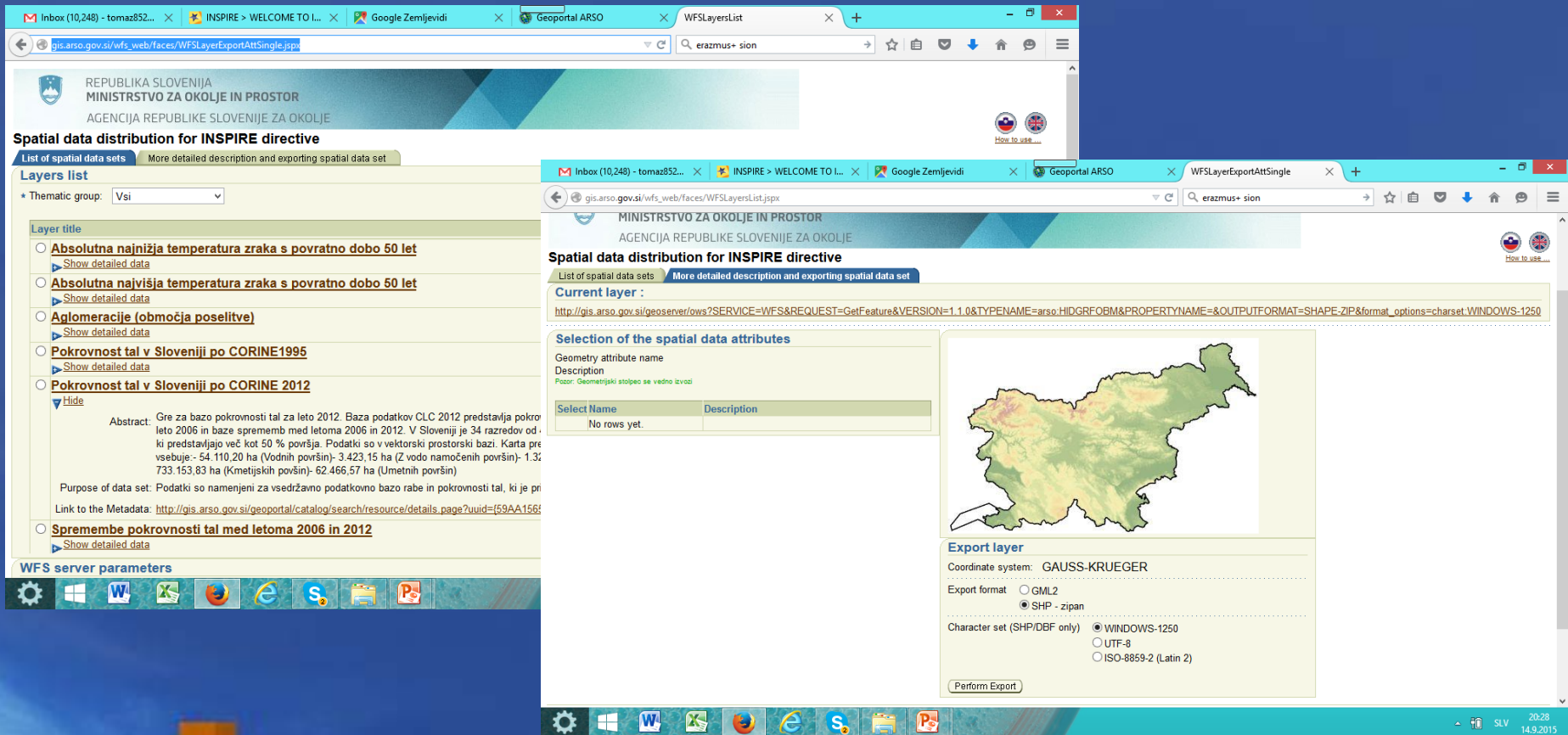


GEOPORTALS

- ENVIRONMENTAL GEOPORTAL, [www. http://gis.arso.gov.si/atlasokolja](http://gis.arso.gov.si/atlasokolja)
- REALESTATE GEOPORTAL, <http://www.e-prostor.gov.si/si>



NETWORK SERVICES OF ENVIRONMENTAL AGENCY



The screenshot displays the INSPIRE WFS Layer Export interface, which is part of the Slovenian Environmental Agency's network services. The interface is divided into two main sections: 'Layers list' and 'Export layer'.

Layers list: This section shows a list of spatial data sets available for export. The 'Thematic group' is set to 'Vsi'. The list includes several layers, such as 'Absolutna najnižja temperatura zraka s povratno dobo 50 let' and 'Absolutna najvišja temperatura zraka s povratno dobo 50 let'. The 'Pokrovnost tal v Sloveniji po CORINE1995' layer is selected, and its abstract is displayed. The abstract describes the data as a vector spatial database representing land cover in Slovenia for the year 2006, based on the CORINE 1995 dataset. It includes details about the data's purpose, which is to provide information for land use planning and management.

Export layer: This section provides options for exporting the selected layer. The 'Coordinate system' is set to 'GAUSS-KRUEGER'. The 'Export format' is set to 'SHP - zipan'. The 'Character set (SHP/DBF only)' is set to 'WINDOWS-1250'. The 'Perform Export' button is visible at the bottom of the section.

- http://gis.arso.gov.si/wfs_web/faces/WFSLayerExportAttSingle.jspx

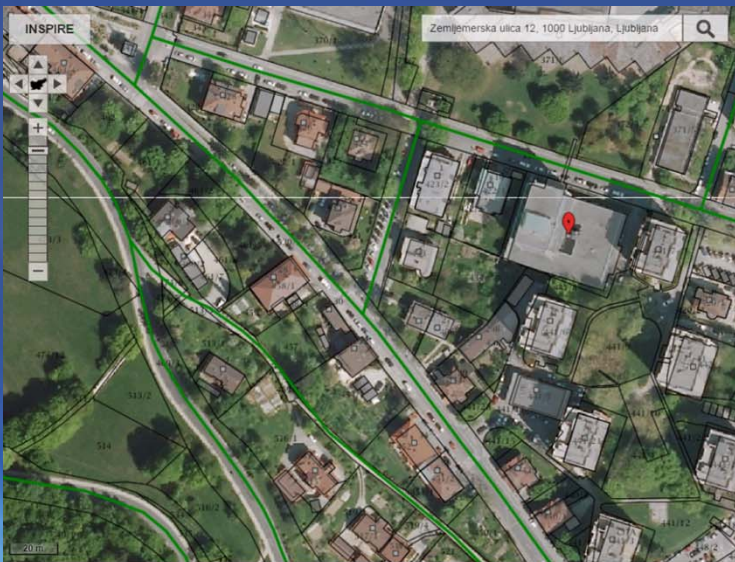
GN.GeographicalNames



SMA test application: „Inspire Service Viewer“

- <https://prostor3.gov.si/isv-test/inspire.html?lang=en>

Ime strežnika	Tip	Kratek opis
GURS javni WMS strežnik	WMS	Javni WMS strežnik za podatke GURS in MOP
GURS javni WFS strežnik	WFS	Javni WFS strežnik za podatke GURS in MOP
ARSO WMS strežnik	WMS	ARSO WMS strežnik
ARSO WFS strežnik	WFS	ARSO WFS strežnik
Copernicus WMS strežnik	WMS	WMS strežnik do Copernicus podatki Core03
Copernicus WMST strežnik	WMST	WMST strežnik - Copernicus podatki Core03
ELF WMST strežnik	WMST	ELF WMST strežnik (osnovne ELF karte)



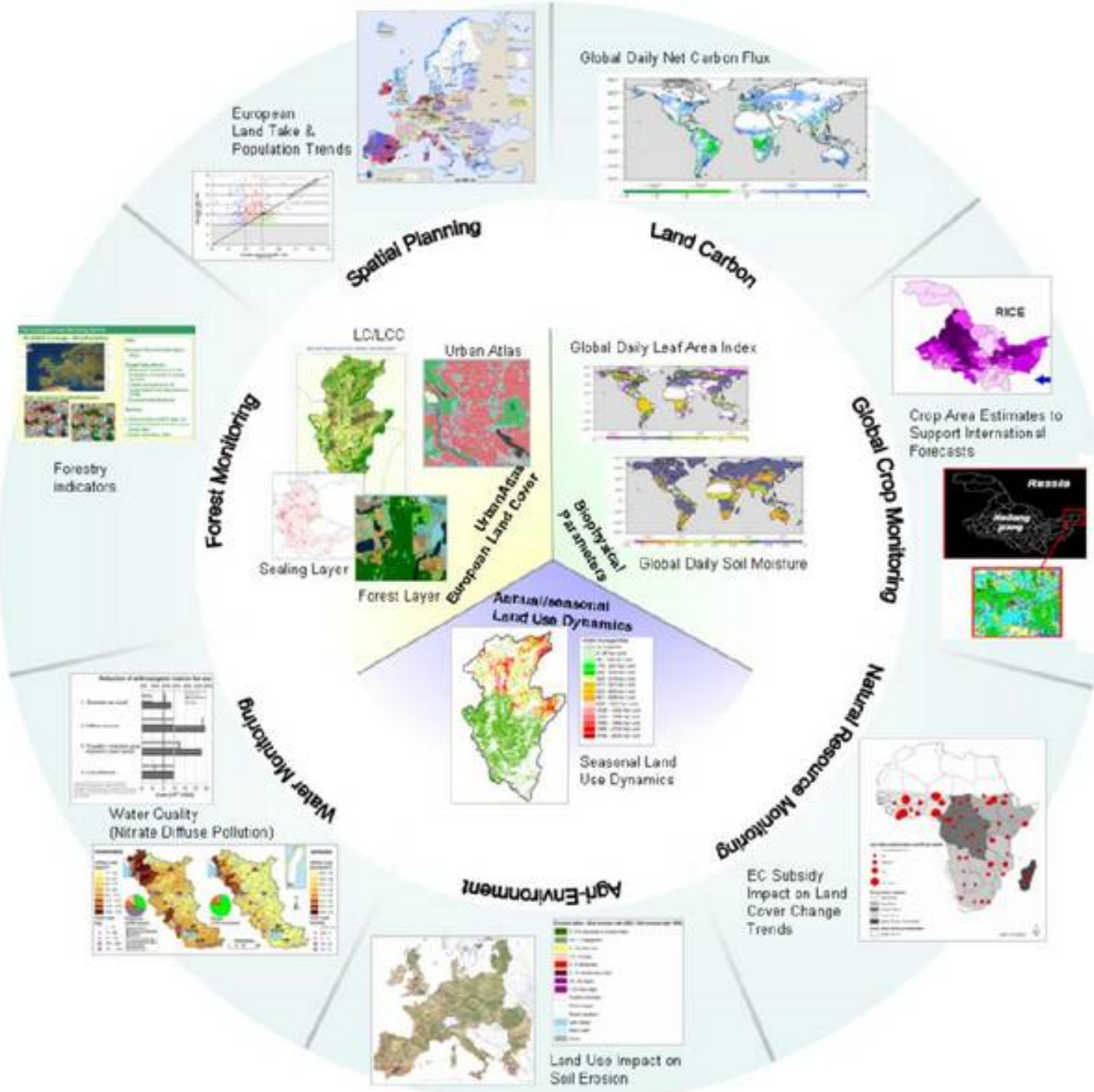
Application optimized for: Firefox 20+, Chrome 30+ and IE 9+

inspire
Identifier
LOCALID > 21439987
NAME SPACE > SI GURS KS
NUMBEROFDWELLINGS > 5
NUMBEROFFLOORSABOVEGROUND > 11
geometry2D
BuildingGeometry2D
geometry
Polygon
exterior
LinearRing
POLYLIST > 462995 85 100380 26 462985 44 100347 3 463027 19 100334 1 463029 48 100341 43 463031 3 100340 86 463035 17 100353 22 463033 35 100353 79 463037 52 100367 11 463009 83 100375 85 463011 27 100380 45 463009 83 100380 92 463015 68 100399 57 463014 34 100399 99 463008 49 100381 36 463002 89 100383 15 463001 5 100378 48 462995 85 100380 26
REFERENCEGEOMETRY > true
horizontalGeometryReference
horizontalGeometryEstimatedAccuracy

Obalno-kraška Notranjsko-kraška Jugovzhodna Slovenija

Application optimized for: Firefox 20+, Chrome 30+ and IE 9+

The power of location



SPATIAL INFORMATION SYSTEM

OTHER
INFORMATION
SYSTEMS

REAL ESTATE
REGISTRIES

LAND BOOK

Agricultural land
use

SPATIAL INFORMATION SYSTEM

Core spatial datasets

Database
of spatial
plans

Database of
administrative
acts

LAND CADASTRE

BUILDING CADASTRE

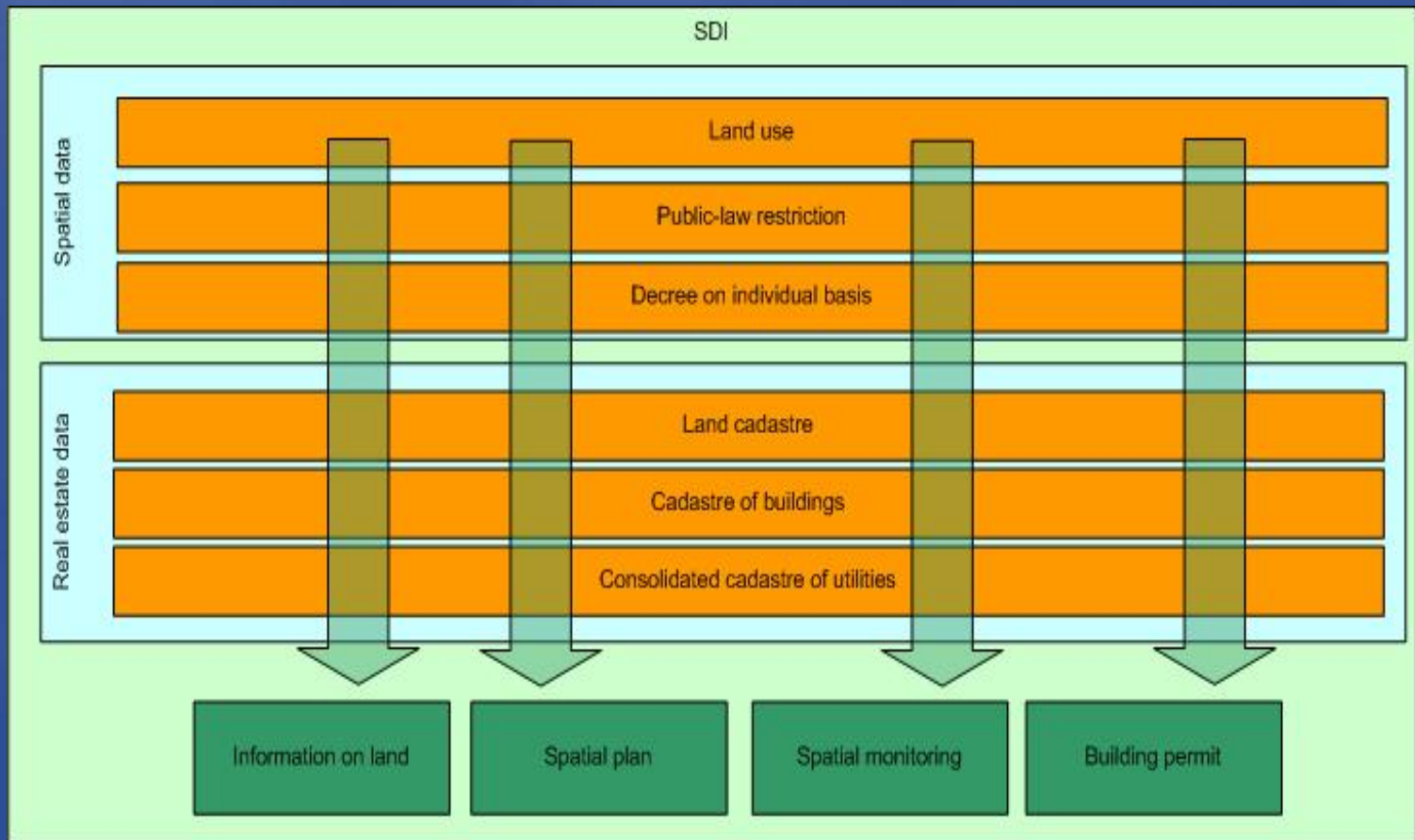
REGISTER OF SPATIAL UNITS

UTILITY CADASTRE

TOPOGRAPHICAL DATASETS

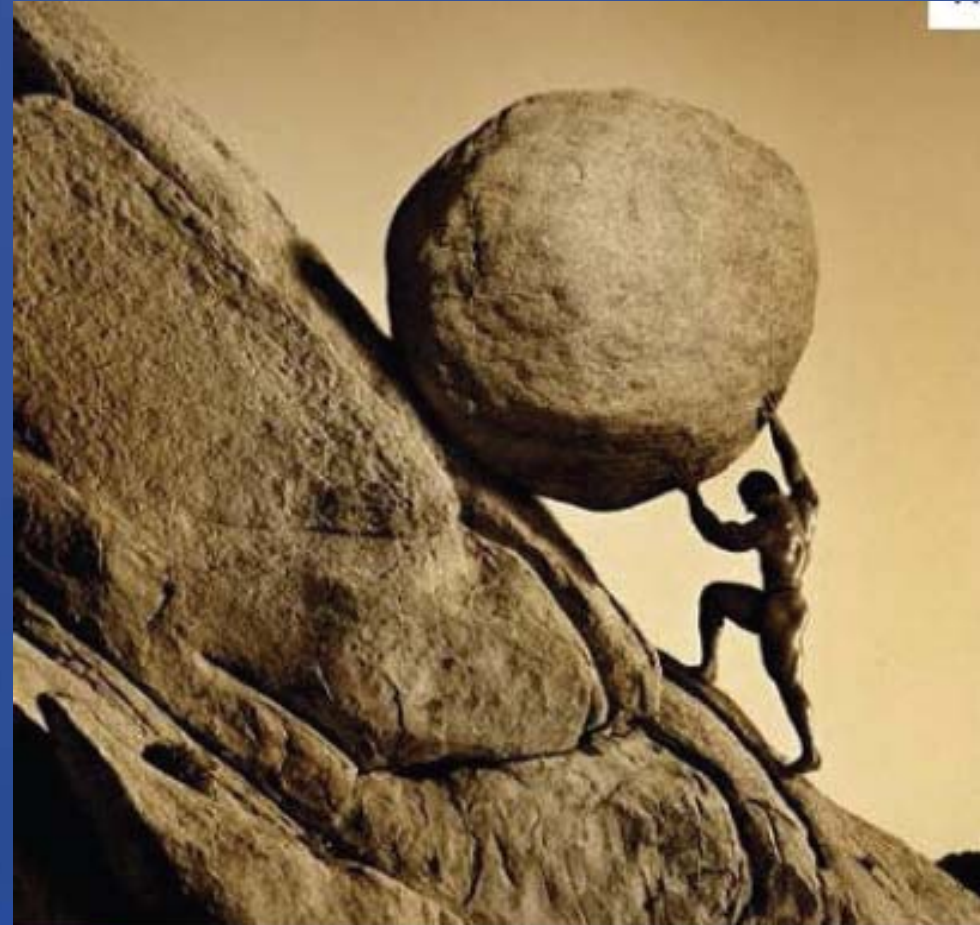
LAND USE DTABASE

e-Spatial



CONCLUSIONS

- LEGAL BACKGROUND
- ORGANISATION
- INTEROPERABILITY OF SPATIAL DATA
- NETWORK SERVICES
- FUTURE IS “GEO” ENABLED
- NEED OF CAPACITY BUILDING



Source: <http://www.accaparlante.it/sisifo>

QUESTIONS



THANK YOU !



e-mail: tomaz.petek@gov.si
www.geoportal.gov.si