



GOSPODARSKA ZBORNICA
DOLENJSKE IN BELE KRAJINE



Fakulteta za
informacijske študije
Faculty of information studies

fis.unm.si
www.gzdbk.si

StaGe – povezovanje statističnih in geografskih podatkov

Tomaž Žagar



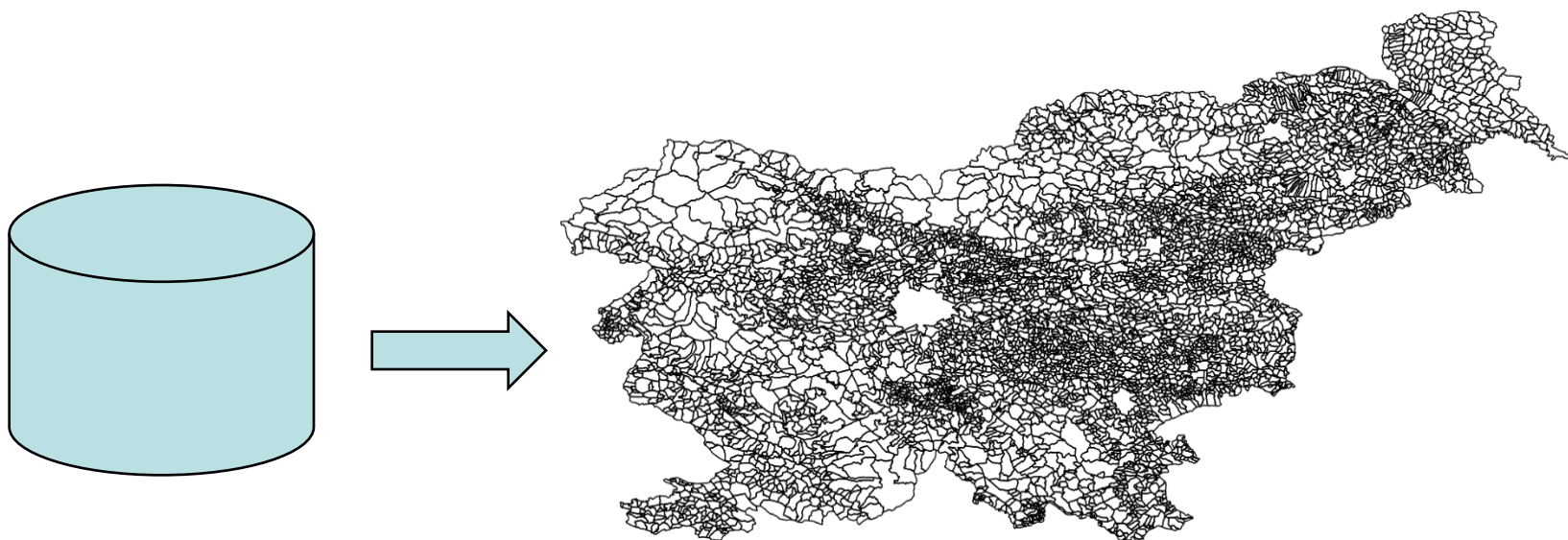
GEODETSKI INŠTITUT SLOVENIJE



Spletna kartografija – WMS

<http://www.opengeospatial.org/standards/wms>

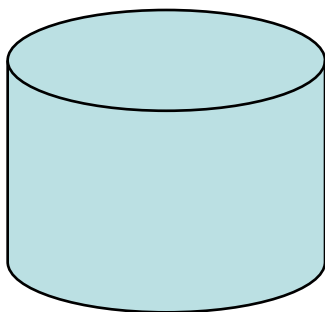
http://localhost/geoserver/stage/wms?service=WMS&version=1.1.0&request=GetMap&layers=stage:u2_5342c5106582e&styles=polygon&bbox=13.3753340584527,45.4218349162128,16.6107046844604,46.8766604386269&width=1466&height=660&srs=EPSG:4326&format=image%2Fpng



Spletna kartografija – WFS

<http://www.opengeospatial.org/standards/wfs>

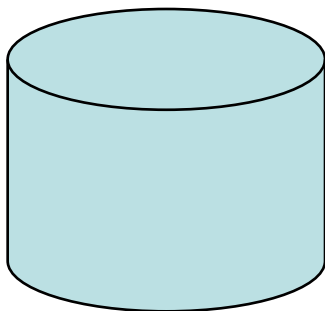
http://localhost/geoserver/stage/ows?service=WFS&version=1.0.0&request=GetFeature&typeName=stage:u2_5342c4a528636&maxFeatures=50&outputFormat=text%2Fxml%3B+subtype%3Dgml%2F3.1.1



```
▼<wfs:FeatureCollection xmlns:ogc="http://www.opengis.net/ogc" xmlns:wfs="http://www.opengis.net/wfs" xmlns:ows="http://www.opengis.net/ows" xmlns:gml="http://www.opengis.net/gml" xmlns:stage="http://stage" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:schemaLocation="http://www.opengis.net/wfs http://localhost:80/geoserver/schemas/wfs/1.1.0/wfs.xsd http://stage http://localhost:80/geoserver/stage/ows?service=WFS&version=1.0.0&request=DescribeFeatureType&typeName=stage%3Au2_5342c4a528636">
  ▼<gml:featureMembers>
    ▼<stage:u2_5342c4a528636 gml:id="u2_5342c4a528636.3588">
      <stage:ob_id>091</stage:ob_id>
      <stage:ob_ime>PIVKA</stage:ob_ime>
      <stage:na_id>023</stage:na_id>
      <stage:na_ime>SUHORJE</stage:na_ime>
      <stage:ob_na_id>091023</stage:ob_na_id>
      <stage:povrsina>5.6687</stage:povrsina>
      <stage:y_c>430600</stage:y_c>
      <stage:x_c>55250</stage:x_c>
      <stage:tot_p>61.0</stage:tot_p>
      <stage:tot_m>29.0</stage:tot_m>
      <stage:tot_f>32.0</stage:tot_f>
      <stage:p_00_14>3.0</stage:p_00_14>
      <stage:m_00_14>2.0</stage:m_00_14>
      <stage:f_00_14>1.0</stage:f_00_14>
      <stage:p_15_64>46.0</stage:p_15_64>
      <stage:m_15_64>25.0</stage:m_15_64>
      <stage:f_15_64>21.0</stage:f_15_64>
      <stage:p_65_>12.0</stage:p_65_>
      <stage:m_65_>2.0</stage:m_65_>
      <stage:f_65_>10.0</stage:f_65_>
      <stage:del_p_00_1>4.9</stage:del_p_00_1>
      <stage:del_m_00_1>-1000001.0</stage:del_m_00_1>
      <stage:del_f_00_1>3.1</stage:del_f_00_1>
      <stage:del_p_15_6>75.4</stage:del_p_15_6>
      <stage:del_m_15_6>-1000001.0</stage:del_m_15_6>
      <stage:del_f_15_6>65.6</stage:del_f_15_6>
```

Spletna kartografija - WFS

```
<stage:p_85 >4.0</stage:p_85 >
<stage:m_85 >0.0</stage:m_85 >
<stage:f_85 >4.0</stage:f_85 >
<stage:ind_fem>110.3</stage:ind_fem>
<stage:star_p>45.3</stage:star_p>
<stage:star_m>-1000001.0</stage:star_m>
<stage:star_f>52.2</stage:star_f>
<stage:ind_star_p>400.0</stage:ind_star_p>
<stage:ind_star_m>-1000001.0</stage:ind_star_m>
<stage:ind_star_f>1000.0</stage:ind_star_f>
<stage:gost_preb>10.8</stage:gost_preb>
▼<stage:geom>
  ▼<gml:MultiSurface srsDimension="3" srsName="http://www.opengis.net/gml/srs/epsg.xml#4326">
    ▼<gml:surfaceMember>
      ▼<gml:Polygon srsDimension="3">
        ▼<gml:exterior>
          ▼<gml:LinearRing srsDimension="3">
            ▼<gml:posList>
              14.12526219500233 45.63625382585702 45.79649312235415 -1.7976931348623157E308 14.125206187635488 45.
              45.63613030555982 45.796351672150195 -1.7976931348623157E308 14.124888446452731 45.63595402849342 45.
              45.796073337085545 -1.7976931348623157E308 14.124697998077863 45.63582659754906 45.79587462730706 -1.
              -1.7976931348623157E308 14.12412200825148 45.6357502064671 45.79593401774764 -1.7976931348623157E308
              14.123520108209096 45.63568702144482 45.79602800589055 -1.7976931348623157E308 14.123373078131205 45.
              45.635544963291785 45.795875997282565 -1.7976931348623157E308 14.12307989292584 45.635539678839706 4
              45.79597885161638 -1.7976931348623157E308 14.122804068769753 45.63554206479295 45.79600575566292 -1.
              -1.7976931348623157E308 14.122722539716401 45.63542446329197 45.79580907989293 -1.7976931348623157E3
              14.122237514843793 45.63526777582783 45.79568163584918 -1.7976931348623157E308 14.12205303633691 45.
              45.635049434583735 45.795373500324786 -1.7976931348623157E308 14.121735942328 45.63494449240778 45.7
              45.79518129862845 -1.7976931348623157E308 14.120994775709931 45.63476333876279 45.79515723697841 -1.
              -1.7976931348623157E308 14.12057967985762 45.63464767311318 45.795083488337696 -1.7976931348623157E3
              14.120209609302648 45.63452785288071 45.79498565290123 -1.7976931348623157E308 14.120120159705602 45
              45.634373669979176 45.794745959341526 -1.7976931348623157E308 14.1199576080031035 45.634237973078065
              45.794357164762914 -1.7976931348623157E308 14.119641300995728 45.63396109552406 45.79410026781261 -1
              -1.7976931348623157E308 14.11930307470472 45.63385501454317 45.79401739407331 -1.7976931348623157E30
              14.119203781913763 45.63364279257286 45.79364526644349 -1.7976931348623157E308 14.119179275162326 45
              45.633420882355374 45.79328656103462 -1.7976931348623157E308 14.118811747555911 45.63328434607856 45
              45.79296505264938 -1.7976931348623157E308 14.118719366685166 45.63303618400374 45.79265321791172 -1.
              -1.7976931348623157E308 14.118366050692558 45.63266453667052 45.79206557851285 -1.7976931348623157E3
              14.118112377370448 45.63248261842862 45.79180676210672 -1.7976931348623157E308 14.118062699104042 45
              45.632221356104495 45.79131945502013 -1.7976931348623157E308 14.118009280361774 45.6321083981431 45.
              45.7909651780501 -1.7976931348623157E308 14.117621954856883 45.63186246147222 45.790790654718876 -1.
              -1.7976931348623157E308 14.117350306371321 45.63159941899252 45.790382370352745 -1.7976931348623157E
              -1.7976931348623157E308 14.117200996702564 45.631305825671715 45.78987167682499 -1.7976931348623157E
              -1.7976931348623157E308 14.117237272504862 45.63103615872861 45.78934064786881 -1.7976931348623157E3
              14.116874354380803 45.63086689255027 45.7891450751608 -1.7976931348623157E308 14.116696421683667 45
              45.630657031000016 45.78884073533118 -1.7976931348623157E308 14.116590323446407 45.63051372044710 45
```





Spletna kartografija – SLD

<http://www.opengeospatial.org/standards/sld>

```
1 <?xml version="1.0" encoding="UTF-8"?><sld:StyledLayerDescriptor xmlns="http://www.opengis.net/sld" xmlns:sld="http://www.opengis.net/
2 <sld:NamedLayer>
3 <sld:Name>Default Styler</sld:Name>
4 <sld:UserStyle>
5 <sld:Name>Default Styler</sld:Name>
6 <sld:Title>SLD Cook Book: Simple polygon</sld:Title>
7 <sld:FeatureTypeStyle>
8 <sld:Name>name</sld:Name>
9 <sld:Rule>
10 <sld:PolygonSymbolizer>
11 <sld:Fill>
12 <sld:CssParameter name="fill">
13 <ogc:PropertyName>gid_color</ogc:PropertyName>
14 </sld:CssParameter>
15 </sld:Fill>
16 <sld:Stroke>
17 <sld:CssParameter name="stroke">#FF0000</sld:CssParameter>
18 <sld:CssParameter name="stroke-width">1</sld:CssParameter>
19 </sld:Stroke>
20 </sld:PolygonSymbolizer>
21 </sld:Rule>
22 </sld:FeatureTypeStyle>
23 </sld:UserStyle>
24 </sld:NamedLayer>
25 </sld:StyledLayerDescriptor>
26
27
```

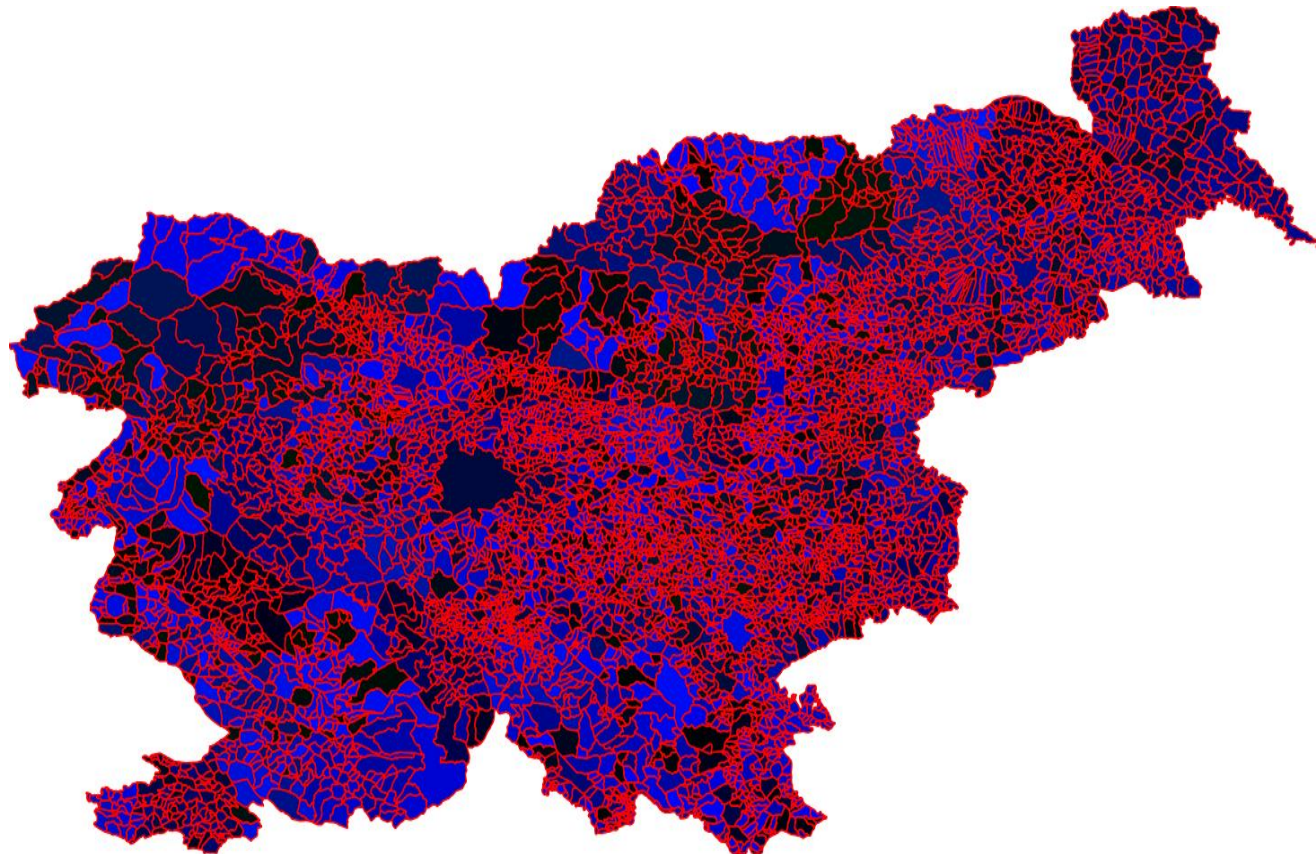



Spletna kartografija - SLD



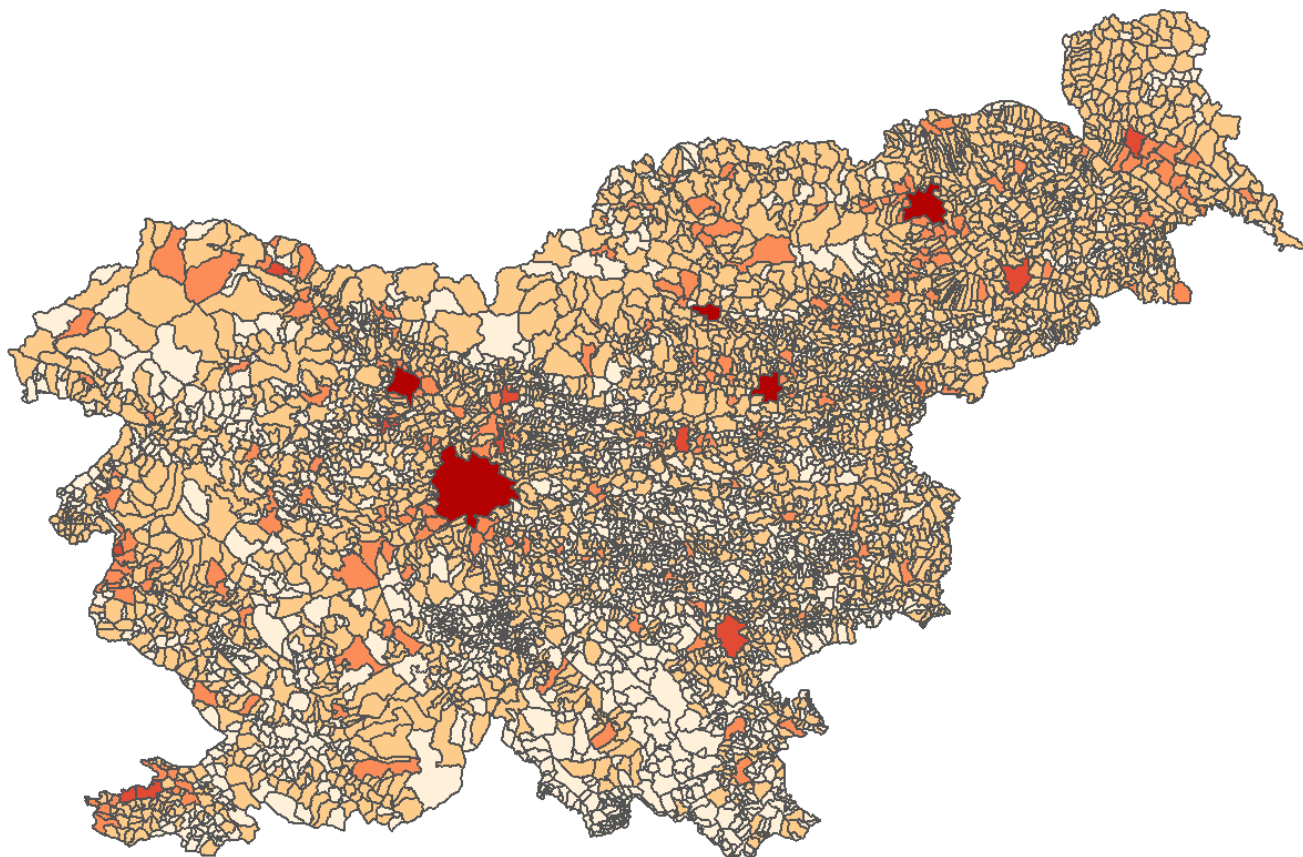


Spletna kartografija - SLD





Spletna kartografija - SLD





Aplikacija StaGe - zahteve

- prostorski sloji
 - kohezijski regiji
 - statistične regije
 - občine
 - naselja
 - mreža (10 km x 10 km, 5 km x 5 km, 1 km x 1km, 500 m x 500 m, 100 m x 100 m)



Aplikacija StaGe - zahteve

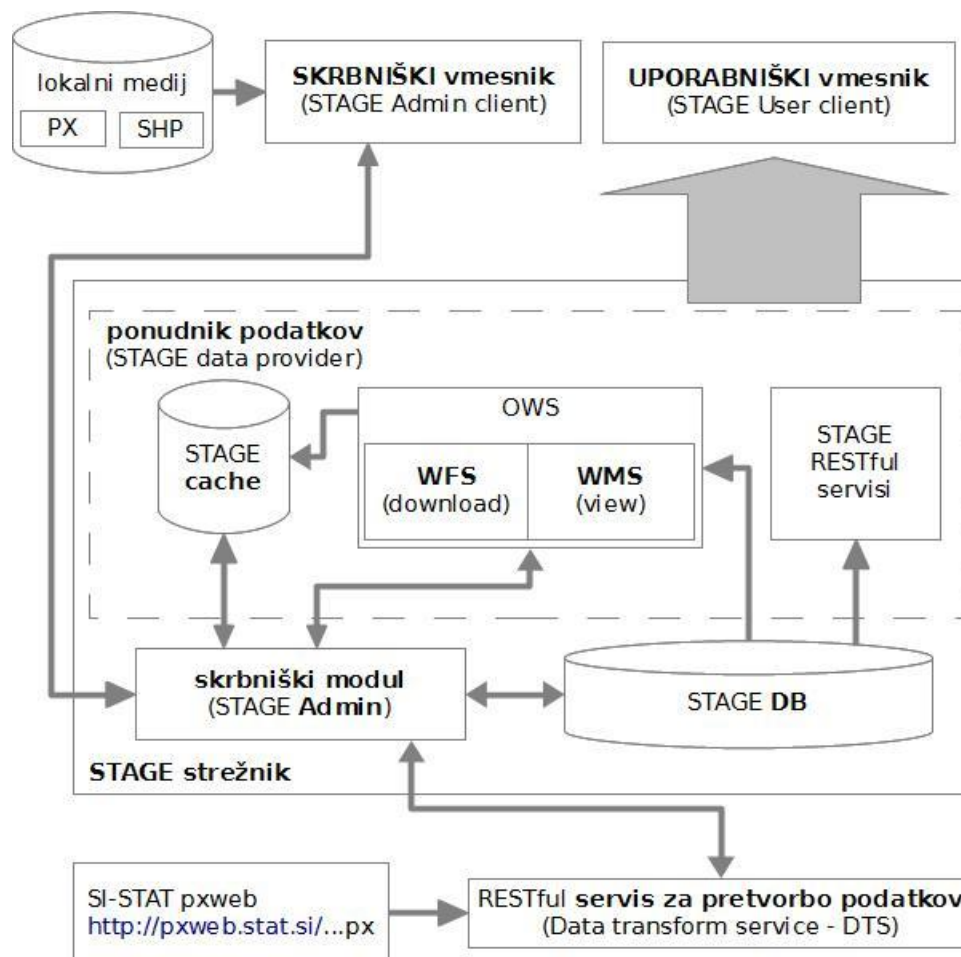
- statistični podatki
 - datoteke SHP
 - datoteke PX
- barvna prilagodljivost
 - nastavljive barve legend
 - nastavljivi razredi spremenljivk
 - prosojnost



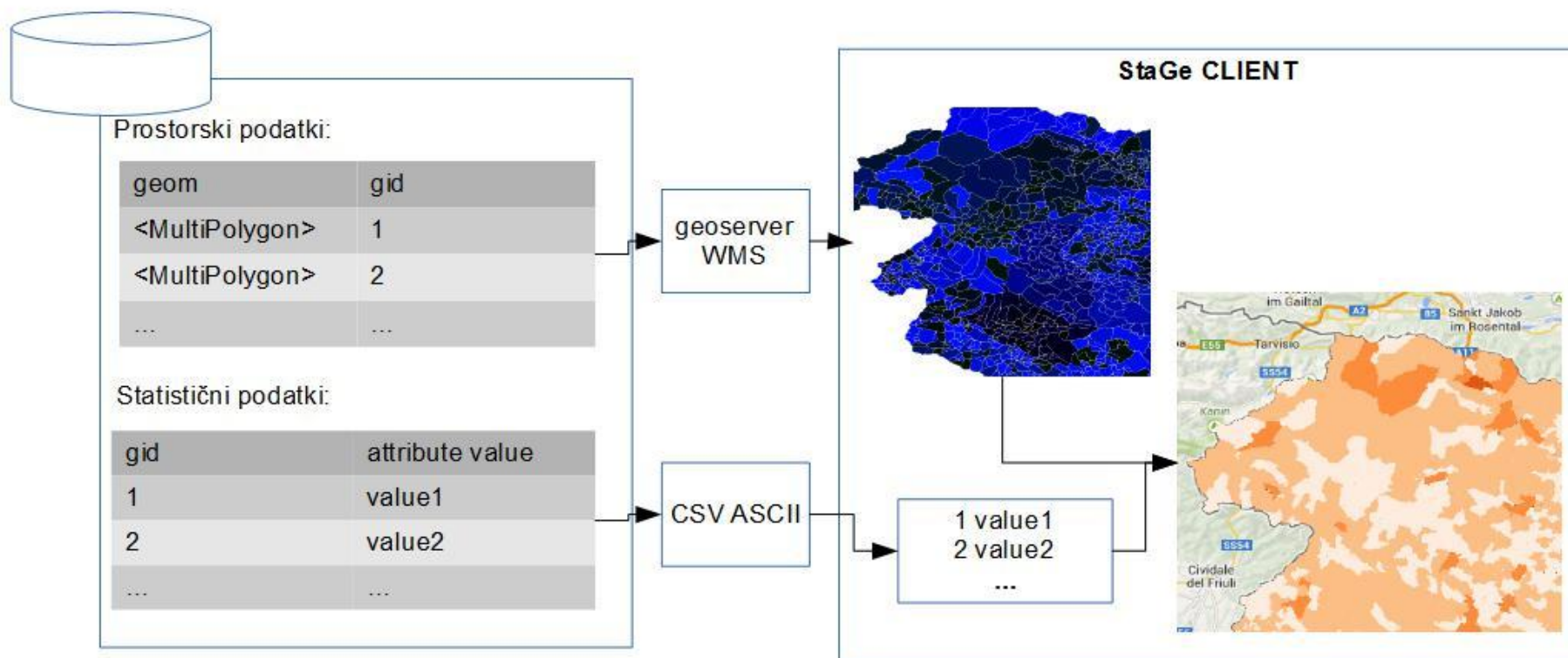
Aplikacija StaGe - zahteve

- izvoz podatkov
 - CSV
 - SHP
 - slika
- prostorsko poizvedovanje
- metapodatkovni opis slojev

Aplikacija StaGe - delovanje



Aplikacija StaGe - delovanje





Aplikacija StaGe - metapodatki

```
▼<gmd:MD_Metadata xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:gml="http://www.opengis.net/gml" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:gco="http://www.xmlns:gmd="http://www.isotc211.org/2005/gmd" xsi:schemaLocation="http://www.isotc211.org/2005/gmd http://schemas.opengis.net/iso/19139/20060504/gmd/gmd.xsd">
  ▼<gmd:fileIdentifier>
    <gco:CharacterString>SI.SURS.SIHM1000</gco:CharacterString>
  </gmd:fileIdentifier>
  ▼<gmd:language>
    <gmd:LanguageCode codeListValue="eng" codeList="http://www.loc.gov/standards/iso639-2/">eng</gmd:LanguageCode>
  </gmd:language>
  ▼<gmd:characterSet>
    <gmd:MD_CharacterSetCode codeListValue="MD_CharacterSetCode_utf8" codeList="http://www.isotc211.org/2005/resources/Codelist/gmxCodeLists.xml#MD_CharacterSetCode"
    codeSpace="ISOTC211/19115">MD_CharacterSetCode_utf8</gmd:MD_CharacterSetCode>
  </gmd:characterSet>
  ▼<gmd:hierarchyLevel>
    <gmd:MD_ScopeCode codeListValue="dataset"
    codeList="http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_19139_Schemas/resources/Codelist/ML_gmxCodeLists.xml#MD_ScopeCode">dataset</gmd:MD_ScopeCode>
  </gmd:hierarchyLevel>
  ▼<gmd:contact>
    ▼<gmd:CI_ResponsibleParty>
      ▼<gmd:organisationName>
        <gco:CharacterString>Statistical Office of the Republic of Slovenia</gco:CharacterString>
      </gmd:organisationName>
      ▼<gmd:contactInfo>
        ▼<gmd:CI_Contact>
          ▼<gmd:address>
            ▼<gmd:CI_Address>
              ▼<gmd:electronicMailAddress>
                <gco:CharacterString>gp.surs@gov.si</gco:CharacterString>
              </gmd:electronicMailAddress>
            </gmd:CI_Address>
          </gmd:address>
        </gmd:CI_Contact>
      </gmd:contactInfo>
      ▼<gmd:role>
        <gmd:CI_RoleCode codeListValue="pointOfContact"
        codeList="http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_19139_Schemas/resources/Codelist/ML_gmxCodeLists.xml#CI_RoleCode">pointOfContact</gmd:CI_RoleCode>
      </gmd:role>
    </gmd:CI_ResponsibleParty>
  </gmd:contact>
  ▼<gmd:dateStamp>
    <gco>Date>2014-12-23</gco>Date>
  </gmd:dateStamp>
  ▼<gmd:metadataStandardName>
    <gco:CharacterString>ISO19115</gco:CharacterString>
  </gmd:metadataStandardName>
  ▼<gmd:metadataStandardVersion>
    <gco:CharacterString>2003/Cor.1:2006</gco:CharacterString>
  </gmd:metadataStandardVersion>
  ▼<gmd:identificationInfo>
    ▼<gmd:MD_DataIdentification>
      ▼<gmd:citation>
```



Aplikacija StaGe - metapodatki

localhost/geonetwork/srv/eng/search#|4187d099-b1f3-4a71-b883-73f8c12e6c77

Print RSS Sign In English Help

GeoNetwork
Opensource

Home Catalog Map About

HOME >> SEARCH RESULTS >> WMS service in ISO19139/119

View mode Actions

WMS service in ISO19139/119

The ISO19139/119 metadata standard is the preferred metadata standard to use for services (WMS, WFS, WCS).

Logo

Related feature catalogue
Zbirka atributov za grid 1000m za leto 2013

Information about the dataset

Reference date	2008-01-01T12:00:00 (Revision: Date identifies when the resource was examined or re-examined and improved or amended)
Keywords	WFS, WMS, GEOSERVER, GEONETWORK, OSGeo (Theme)
Contact information	
Point of contact	Website
Metadata contact	
Point of contact	Individual name The administrator of the service Website
Technical information	
Lineage	

Metadata change date: 2015-03-03 | Unique identifier: 4187d099-b1f3-4a71-b883-73f8c12e6c77



metapodatki

← → ↻

Select Language ▼

METAPODATKOVNI SISTEM Slovenščina ▼

Domov |

KAJ?

KJE?

Prikaži karto

IŠČITE PO SLOVENSKIH PROSTORSKIH METAPODATKIH USKLAJENIH Z DIREKTIVO INSPIRE

DIREKTIVA INSPIRE

- 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 so na voljo v obliki in na način, usklajen z INSPIRE podatkovnimi specifikacijami.

GeoNetwork OpenSource omogoča enostavno pregledovanje in upravljanje z metapodatki georeferenciranih tematskih podatkov med različnimi organizacijami.

Irena.Azman@gov.si

- Meje upravnih enot - SI.GURS.RPE.UE
- Meje statističnih regij - SI.GURS.RPE.SR
- Meje območnih geodetskih uprav - SI.GURS.RPE.OGU
- Meje naselij - SI.GURS.RPE.NA
- Meje lokalnih skupnosti - SI.GURS.RPE.LS
- Državna meja - SI.GURS.RPE.DM
- DPK250 - SI.GURS.RASTRI.DPK250
- DPK500 - SI.GURS.RASTRI.DPK500
- DTK50 - SI.GURS.RASTRI.DTK50
- DPK1000 - SI.GURS.RASTRI.DPK1000

StaGe

STAGE Prostorska raven ▾ Vsebina ▾ Orodja ▾ Iskanje

Izberi raven

- Kohezijski regiji
- Statistične regije
- Občine
- Naselja
- Mreža 10 km
- Mreža 5 km
- Mreža 2500 m
- Mreža 1000 m
- Mreža 500 m
- Mreža 100 m

Raven prikaza: **Statistične regije**

Vsebina:
Prebivalstvo > število prebivalcev > Skupaj
Vrednost za Slovenijo: **2.058.821**

2008	2009	2010	2011	2012
2013	2014	■	▶	

- 99.999 ali manj
- 100.000 – 149.999
- 150.000 – 249.999
- 250.000 ali več

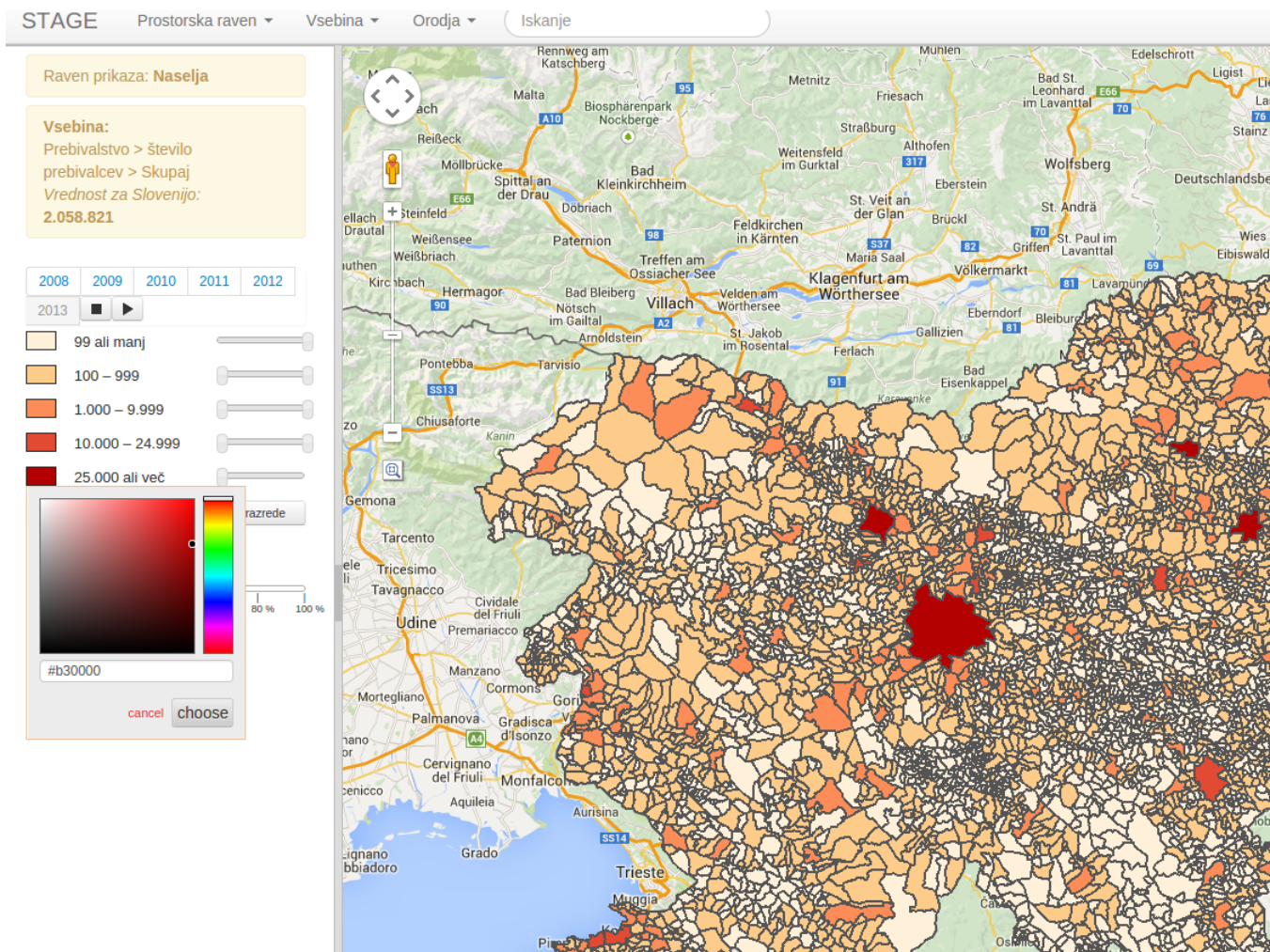
Ponastavi barve Ponastavi razrede

- Prebivalstvo
- Aktivno prebivalstvo
- Brezposelnost
- Plače
- Pokojnine
- Revščina
- Izobraževanje
- Zdravje
- Kriminaliteta
- Podjetja
- Stanovanja
- Gradbeništvo
- Transport
- Okolje
- Upravno-teritorialna razdelitev
- Kmetijstvo
- Raziskovalno-razvojna dejavnost
- Nacionalni računi

Prosojnost



StaGe

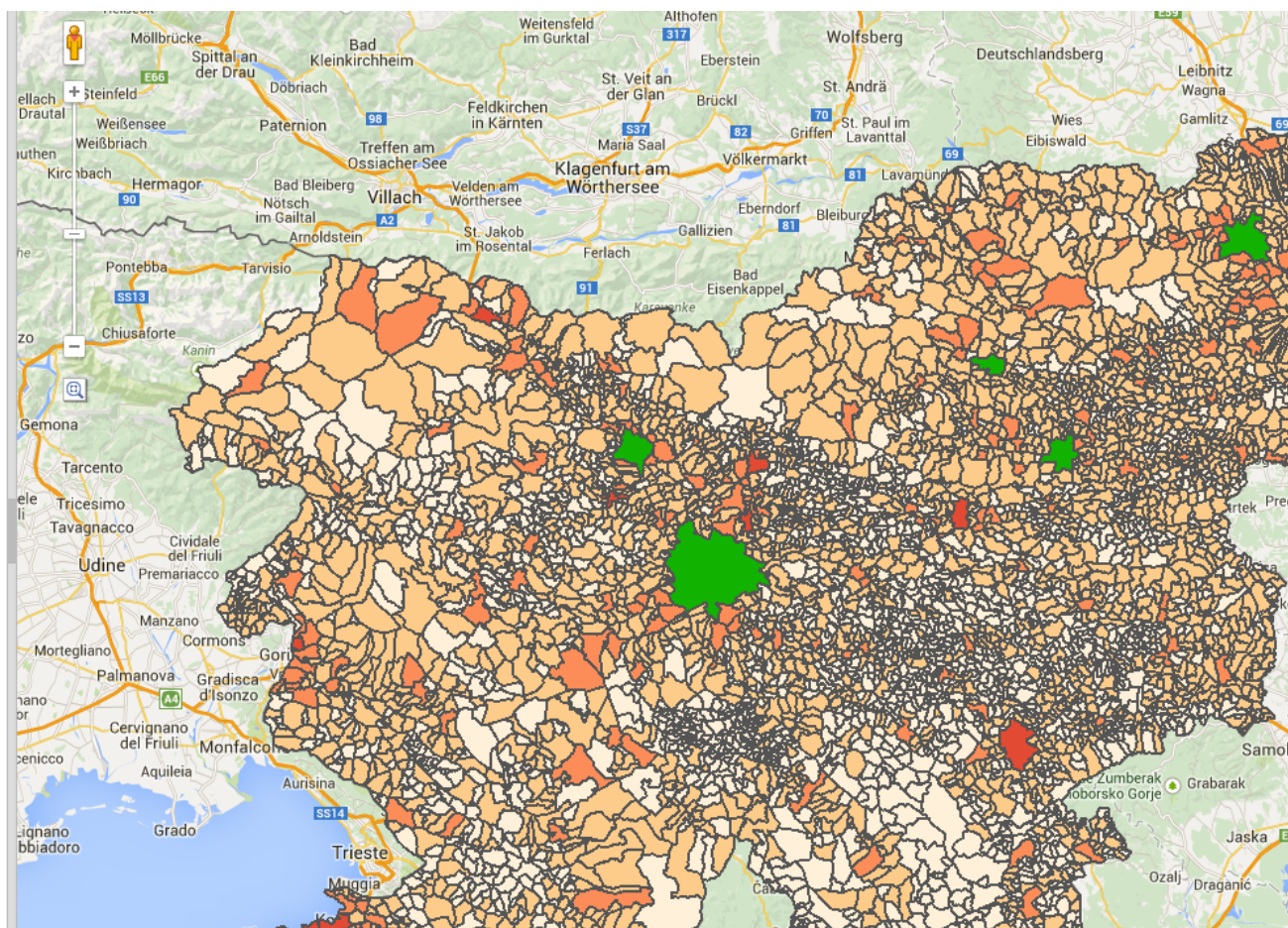
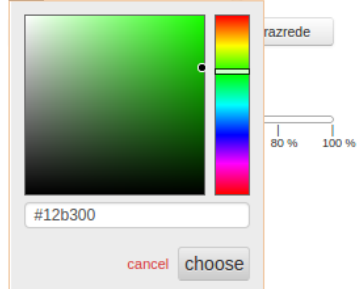


StaGe

Prebivalstvo > število
prebivalcev > Skupaj
Vrednost za Slovenijo:
2.058.821

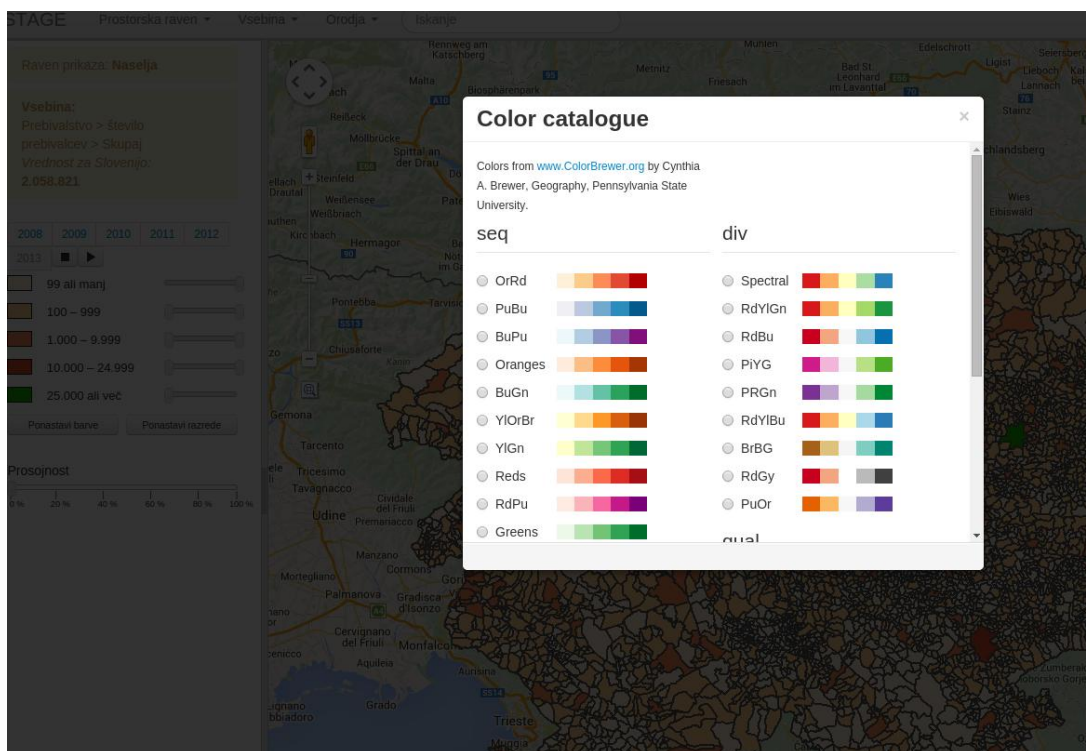
2008 2009 2010 2011 2012
2013

- 99 ali manj
- 100 – 999
- 1.000 – 9.999
- 10.000 – 24.999
- 25.000 ali več



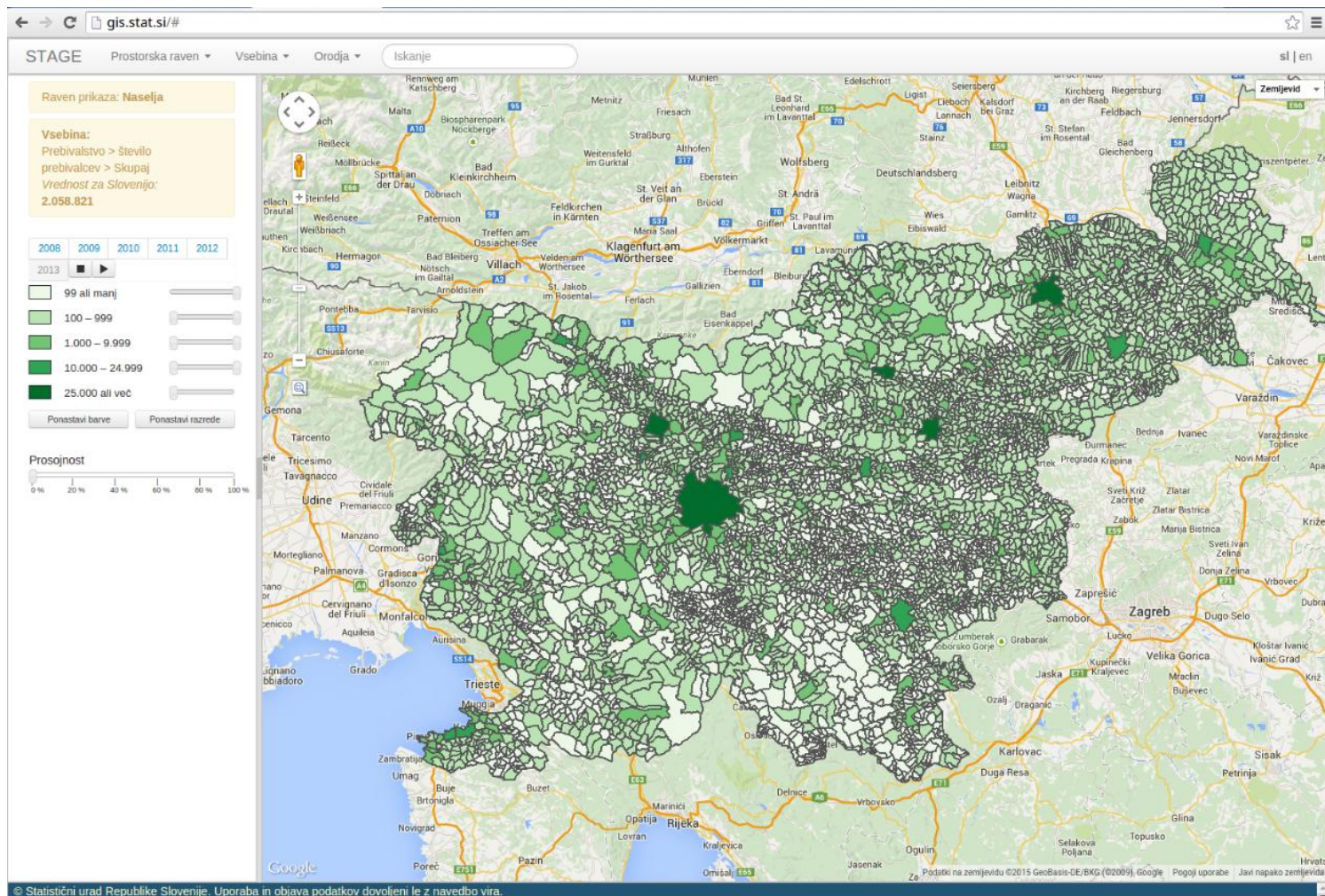


StaGe

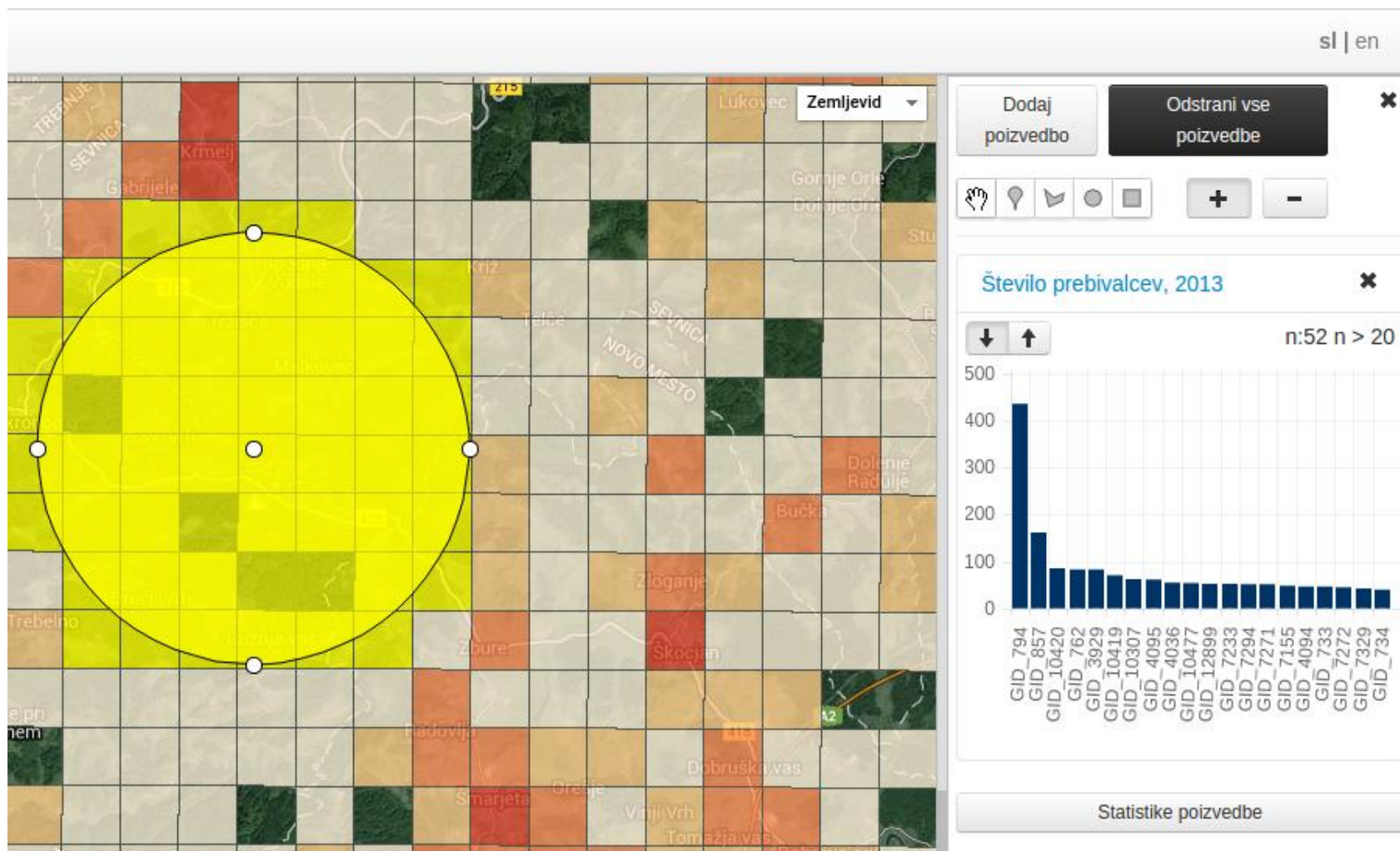




StaGe



StaGe





StaGe

localhost/gis.stat.si/admin/index.php?r=layer/variablesMenu

StageADMIN

Splošno

Sloj

Prevodi

Uporabniki

Jezik (sl) ▾

Test >>

Odjava (tomaz.zagar@gis.si)

Naloži

manage

Spremenljivke

jobs

menu

classification

values

notes

refreshing

Variables

select a variable

OB_ID
OB_IME
NA_ID
NA_IME
OB_NA_ID
POVRSINA
Y_C
X_C

Assign to the selected menu item

Unassign from the menu item

Unassign all

Level

Naselja

Menu tree

- Prebivalstvo
 - število prebivalcev
 - Skupaj → TOT_P
 - Moški → TOT_M
 - Ženske → TOT_F
 - število prebivalcev po velikih starostnih skupinah
 - število prebivalcev po petletnih starostnih skupinah
 - od 0 do 4 let
 - Skupaj → P_00_04
 - Moški → M_00_04
 - Ženske → F_00_04

Preview ▾



StaGe

- 📁 povprečna starost
 - 📁 ⊕ indeks feminitete → IND_FEM
 - 📁 izobrazba prebivalcev, starih 15 ali več let
 - 📁 ⊕ gostota prebivalstva → GOST_PREB
 - 📁 gospodinjstva
- 📁 Stanovanja

Menu item → Add Remove Remove All Rename Separator to reorder the menu items: drag & drop

Comments

Indeks feminitete opisuje razmerje med številom žensk in številom moških. Pove nam, koliko žensk na 100 moških prebiva na nekem območju.

Več podatkov je objavljenih na SI-STAT podatkovnem portalu v področju [Prebivalstvo - Število prebivalcev](#).

```
1 <p>Indeks feminitete opisuje razmerje med številom žensk in številom moških. Pove nam, koliko žensk na 100 moških prebiva na nekem območju.</p><p>Več podatkov je objavljenih na SI-STAT podatkovnem portalu v področju <a href="http://pxweb.stat.si/pxweb/Database/Dem_soc/Dem_soc.asp">Prebivalstvo - Število prebivalcev</a>.</p>
```

📁
Update
Remove
✎ ▶▶

Save menu to all levels

Save



StaGe

localhost/gis.stat.si/admin/index.php?r=layer/manage&idl=265

StageADMIN Splošno **Sloj** Prevodi Uporabniki

Jezik (sl) Test >> Odjava (tomaz.zagar@gis.si)

Naloži manage **Spremenljivke** jobs

Naselja

[Back to the parent level](#)

Unpublish

Re-publish

Publish OWS

Level datum

2014 2013 2012 2011 2010 2009 2008 2005 1995

Level Datum properties

Feature name column

Select a column which represents the name of the feature

Spatial feature ID

Select a column which represents the ID of the feature

Publish Time

(yyyy-MM-dd hh:mm:ss)

Datum *

2012-01-01 00:00:00

(yyyy-MM-dd)

Save

UUID:527fa80f-94e0-54ae-a6f6-0484e33e7ce4

[Load inspire-iso-19115-template.xml](#)

```
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <MD_Metadata xmlns="http://www.isotc211.org/2005/gmd" xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" ?>
3   <fileIdentifier>
4     <gco:CharacterString/>
5   </fileIdentifier>
6   <language>
7     <gmd:LanguageCode codeList="http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_19139_Sc
8   </language>
9   <hierarchyLevel>
10    <MD_ScopeCode codeList="http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_19139_Sc
11  </hierarchyLevel>
12  <contact>
13    <CI_ResponsibleParty>
14      <organisationName>
15        <gco:CharacterString/>
16      </organisationName>
17      <contactInfo>
18        <CI_Contact>
19          <address>
20            <CI_Address>
21              <electronicMailAddress>
22                <gco:CharacterString/>
23              </electronicMailAddress>
24            </CI_Address>
25          </address>
26        </CI_Contact>
27      </contactInfo>
28    </CI_ResponsibleParty>
29  </contact>
30 </MD_Metadata>
```



Tematska spletna kartografija

- Izvedba na strani odjemalca omogoča večjo:
 - hitrost in prilagodljivost prikaza
 - izvedbo na manj zahtevni strežniški infrastrukturi
- Standardizacija pristopa(?)



GOSPODARSKA ZBORNICA
DOLENJSKE IN BELE KRAJINE



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