

General Assembly & Seminar

12 - 14 May 2022,
Skopje



REPUBLIKA HRVATSKA
Državna geodetska uprava



CLGE



Council of European Geodetic Surveyors

GEOHRVATSKA- SPATIAL DATA OF THE REPUBLIC OF CROATIA

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- State Geodetic Administration as a National Contact Point for NSDI
- Existing legal and institutional framework
- NSDI main products

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- Introduction

- GeoHrvatska

- Application functionalities
- Thematic areas
- Available tools
- Search engine and list of layers

- GeoHrvatska

- Available data and NSDI subjects included
- Examples of use

- Conclusion





State Geodetic Administration- NCP for NSDI in Croatia

- State Geodetic Administration is:
 - Central Government Body
 - Established under the Law on Organization and Scope of Ministries and Other Central Government Bodies
 - Carries out administrative and other tasks related to the management of geodetic and cadastral jobs
 - Performs the activities of the National Contact Point of the National Spatial Data Infrastructure (NSDI) in accordance with a special law
- In relation to NSDI responsible for:
 - Establishing and maintaining NSDI geoportal and metadata service
 - Interoperability of spatial data
 - Implementing Directive INSPIRE and reporting to EC
 - Promoting the importance of NSDI in society

NSDI existing legal and institutional framework

- INSPIRE Directive (2007/2/EC) (Infrastructure for Spatial Information in the European Community)
 - aims to create a European (EU) spatial data infrastructure
 - requires that EU members exchange 34 different spatial data themes through network services
- NSDI Act (OG 50/2020) – INSPIRE transposition into Croatian legislation
- NSDI Strategy 2020- strategic document
- Organizational structure- NSDI Bodies:
 - NSDI Council
 - NSDI Board
 - NSDI Working Groups
- NSDI Vision:

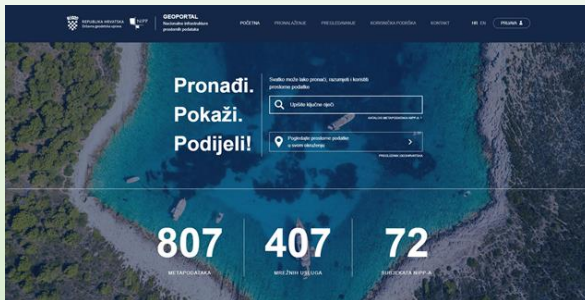
"Everyone can easily find, understand and use spatial data."



Main portals within Croatian NSDI

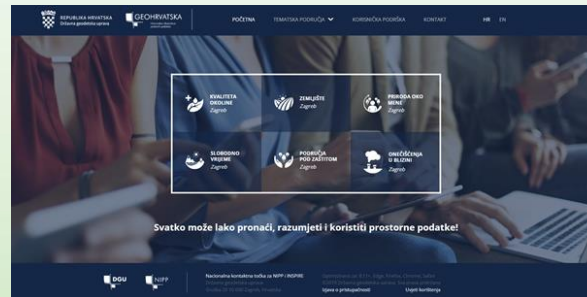
NSDI Geoportal

<https://geoportal.nipp.hr/>



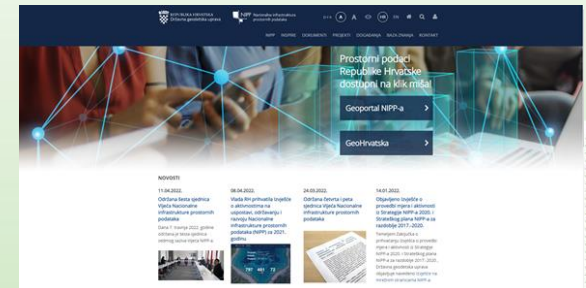
GeoHrvatska- spatial data viewer

<https://www.geohrvatska.hr/>



NSDI main web page

<https://www.nipp.hr/>



- Metadata Catalogue
- Viewer for professional users
- Public/authorised users
- More manipulation tools
- Viewer for general public
- Only public users
- Easier interface
- Only predefined data layers
- Actual news in the NSDI field
- Documents and educational materials



GeoHrvatska- public spatial data viewer

- Public web portal for visualisation of available spatial data of the NSDI
- Developed at the end of 2019 at the initiative of the State Geodetic Administration
- Aim of the portal:
 - to enable easier viewing of spatial data from public institutions
 - to raise awareness and importance of the NSDI among general public
 - to help people explore the space around them and find points of interest
- Basic principles of the portal:
 - user friendly interface allowing users to easily find and visualise spatial data of their interest on the interactive map
 - interoperability and possibility to combine spatial data from different sources and use it within one application



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Home page- six thematic areas of spatial data

REPUBLICA HRVATSKA
Državna geodetska uprava

GEOHRVATSKA
Nacionalna institucija
za prostorne podatke

HOME PAGE THEMATIC AREAS SUPPORT CONTACT HR EN

ENVIRONMENTAL QUALITY (HEALTH) Zagreb

LAND Zagreb

NATURE AROUND ME Zagreb

LEISURE Zagreb

PROTECTED AREAS Zagreb

NEARBY POLLUTION Zagreb

135 spatial data sets
14 institutions

Get to know Croatia!

DGU NIPP

National contact point for NSDI and INSPIRE
State Geodetic Administration
Gruška 20 10 000 Zagreb, Croatia

Optimized for: IE11+, Edge, Firefox, Chrome, Safari
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The map pane

- The map pane displays an interactive map that you can use to view layers
- You can pan and zoom view

Menu bar



The screenshot shows the GEOHRVATSKA web application interface. At the top, there is a navigation menu with links for HOME, THEMED AREAS, SUPPORT, CONTACT, HR, and EN. Below the menu is a search engine with a search bar and a search button. On the left side, there is a list of layers under the heading 'ENVIRONMENTAL QUALITY'. The list includes categories like 'Geografska imena', 'Ocjena kakvoće mora', and 'Objekti na plažama'. The main area of the interface is a map of Croatia with various layers and markers. On the right side, there is a toolbar with icons for home, layers, search, and other functions. At the bottom right, there is a status bar showing coordinates and a scale bar.

Search engine



List of the layers



Tool bar

Zooming options

Status bar



Tool bar

- Full screen zoom
- Print
- Measure
- Draw
- Share



Print

ORIENTATION

Landscape

FORMAT

PDF

PAPER SIZE

A4

Print

Draw

Draw point

Draw line

Draw polygon

Clean drawing

Share map

<https://www.geohrvatska.hr/viewer/?themelid=1&bbox=6160.00> COPY

Measure

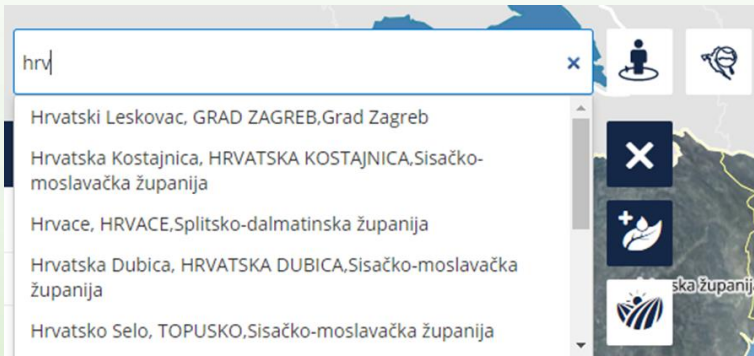
Measure length

Measure area

Clean measures



Search engine



- Interactive searching tool/suggest as you type
- Searching by location/address
 - Location search - based on Geographical Names Registry
 - Address search - based on Address Registry
- Objects around me- visualisation of official spatial data depending on the current location of the user
- Search the area- visualisation of data of the nearest location where the user is currently positioned on the map

List of layers



ENVIRONMENTAL QUALITY

ALL LAYERS OVERVIEW HISTORY LEISURE

Environmental quality

- Odašiljači
- Strateške karte buke
- Demografija
- Registar geografskih
- Temperatura zraka
- Javne ceste

Leisure

- Posjetiteljska infrastruktura u zaštićenim područjima
- Kvaliteta goriva
- Kulturna dobra Republike Hrvatske
- Temperatura zraka
- Planinarske staze

Javne ceste

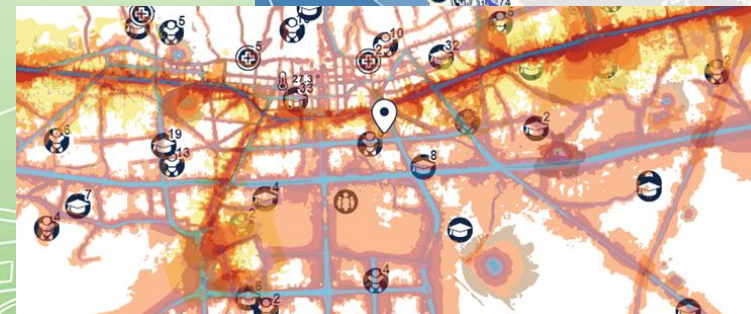
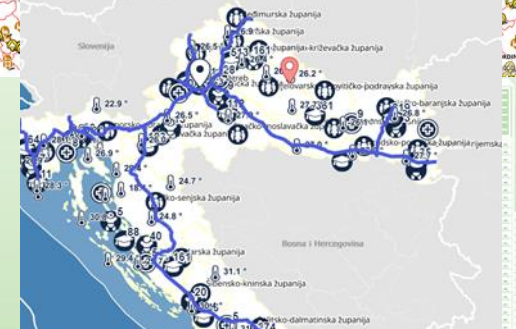
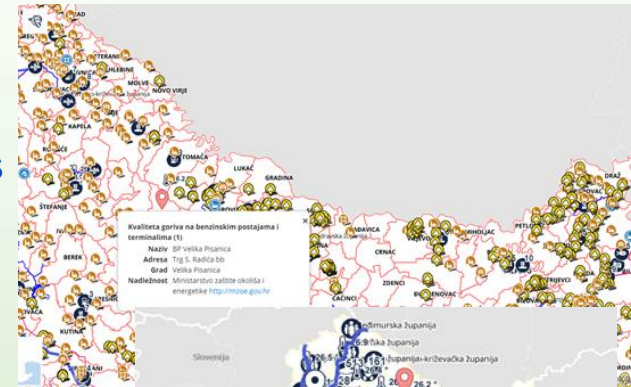
- Autoceste
- Državne ceste
- Županijske ceste
- Lokalne ceste

- Predefined data layers in each category
 - the ability to include / exclude layers from search results
- Base maps: DOF, topographic map, basic map
- Almost all of the data available via network services
- Each layer has its own legend or symbol



Available spatial data

- Air quality in the Republic of Croatia
- Bathing sea quality in the Republic of Croatia
- Information system of strategic noise maps and action plans
- Geographical system of the transmitter list
- ARKOD (APRRR)
- Digital cadastral plan
- Spatial plans (MGIPU)
- Map of terrestrial non-forest habitats of the Republic of Croatia
- Flora Croatica Database
- Visitor infrastructure in protected areas of the Republic of Croatia
- Fuel quality at gas stations
- Protected areas of the Republic of Croatia
- Cadastre of Speleological Objects
- Areas of special water protection
- Hiking trails, mountain lodges
- Schools, kindergartens, hospitals





Public entities (NSDI subjects) included

- State Geodetic Administration
- Ministry of Physical Planning, Construction and State Property
- Ministry of Economy and Sustainable Development
- Ministry of Health
- Agency for Payments in Agriculture, Fisheries and Rural Development
- Croatian waters
- Croatian highways
- Croatian Network Regulatory Agency
- State Hydrometeorological Institute
- Bureau of Statistics
- City of Zagreb



Examples of use (1)

REPUBLICA HRVATSKA
Državna geodetska uprava

GEOHRVATSKA
Nacionalna informativna
posrednička jedinica

POČETNA TEMATSKA PODRUČJA ▼ KORISNIČKA PODRŠKA KONTAKT HR EN

Pretraži po lokaciji/adresi...

Ortophoto; SGA
Noise map; City of Zagreb
Highway network; HAC
Transmitters; HAKOM

Velika Gorica
449281.000, 5067665.000
1000 m

DGU NIPP

Nacionalna kontaktna točka za NIPP i INSPIRE
Državna geodetska uprava
Gruška 20 10 000 Zagreb, Hrvatska

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Izjava o pristupačnosti Uvjeti korištenja



Examples of use (2)

REPUBLICA HRVATSKA
Državna geodetska uprava

GEOHRVATSKA
Nacionalna infrastruktura
prostornih podataka

POČETNA TEMATSKA PODRUČJA KORISNIČKA PODRŠKA KONTAKT

Pretraži po lokaciji/adresi...

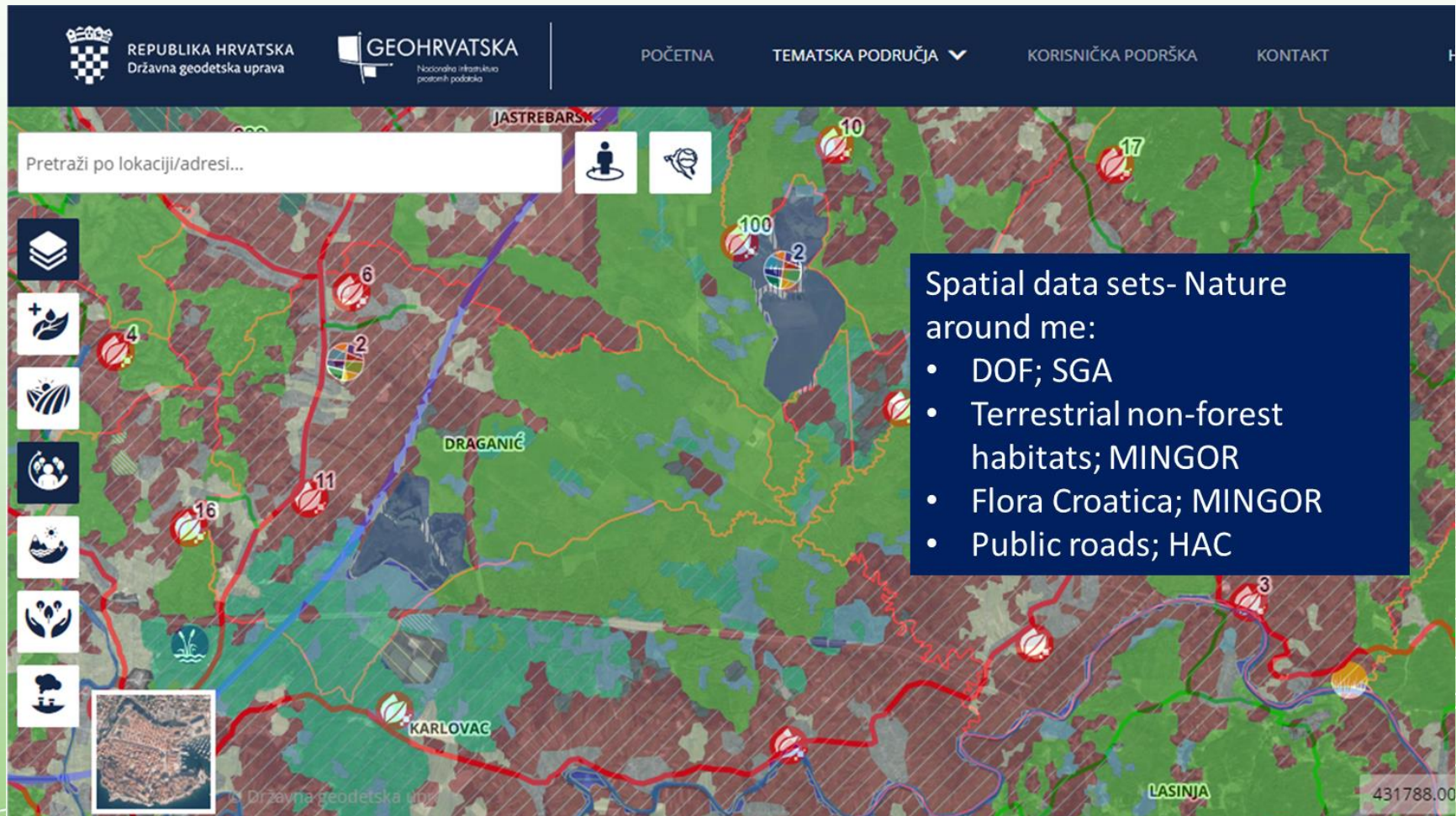
Spatial data sets:

- Administrative units; SGA
- Ortophoto; SGA
- Air temperature; DHMZ
- Sea quality; MINGOR

© Državna geodetska uprava
<https://www.geo.hr/vatska.hr/contact.html>

3479

Examples of use (3)



The screenshot displays the GEOHRVATSKA web application interface. At the top, there is a navigation bar with the logos of the Republic of Croatia and GEOHRVATSKA, along with menu items: POČETNA, TEMATSKA PODRUČJA, KORISNIČKA PODRŠKA, and KONTAKT. Below the navigation bar is a search bar with the placeholder text "Pretraži po lokaciji/adresi...". The main area shows a map of the Karlovac region, with various spatial data sets overlaid. A dark blue text box on the right side of the map lists the following spatial data sets:

- DOF; SGA
- Terrestrial non-forest habitats; MINGOR
- Flora Croatica; MINGOR
- Public roads; HAC

The map also shows several numbered markers (1, 2, 3, 4, 6, 10, 11, 16, 17, 100) and labels for locations like JASTREBARSKA, DRAGANIĆ, KARLOVAC, and LASINJA. The bottom right corner of the map displays the coordinates 431788.00.



Conclusion

- GeoHrvatska public spatial data viewer was developed as a tool for ordinary citizens to display and examine available spatial data from public institutions
- It is one of the main products of Croatian NSDI
- Application supports basic measuring tools and has intuitive interface
- Main principle of the viewer is interoperability achieved by using network services
- Data is maintained where it is most appropriate- within data owner institution
- Continuous work on raising the quality of existing data and adding new ones
- Planned upgrade and improvement of functionalities
- A mobile application in the development with predefined scenarios of use

Thank you!

<https://www.geohrvatska.hr>

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