



REPUBLIC OF CROATIA
State Geodetic
Administration

EU
2020
HR

Croatian Presidency of the
Council of the European Union

Efforts, challenges and progress made in Spatial Data Openness in Croatia

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Joint PCC and EuroGeographics CLRKEN webinar “Importance of Land Administration Data in Strengthening Competitiveness and Economic Development”

16 - 17 June 2020

State Geodetic Administration (SGA) - organization

- Head Office in Zagreb
 - 20 Regional Cadastral Offices
 - 92 Branch Offices
 - Approx. 1200 employees
 - Zagreb: City Office for Cadaster and Geodetic activities



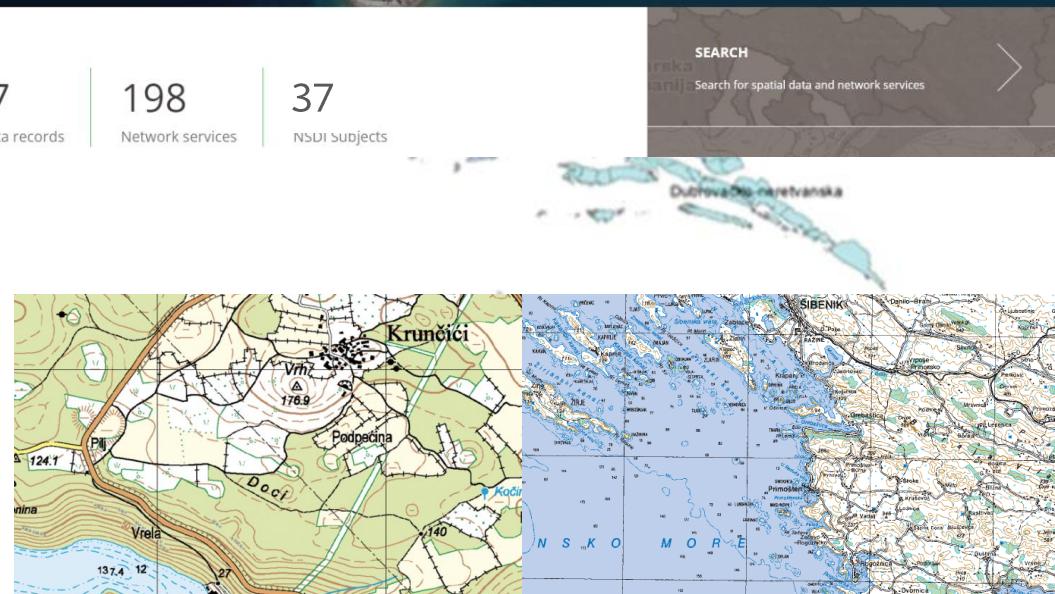
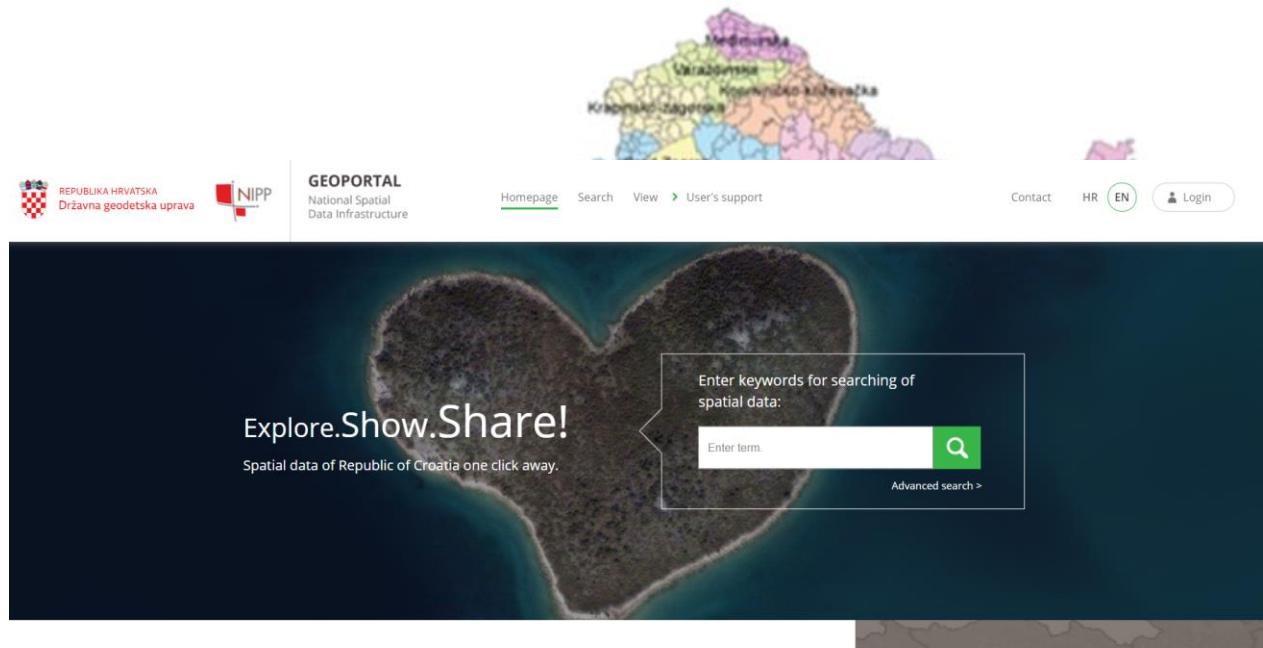
Legal Framework

- Law on State Survey and Real Estate Cadaster (OG 112/18)
- Law on Performing Geodetic Activities (OG 25/18)
- Law on National Spatial Data Infrastructure Law (OG 56/13, 52/18, 50/20)



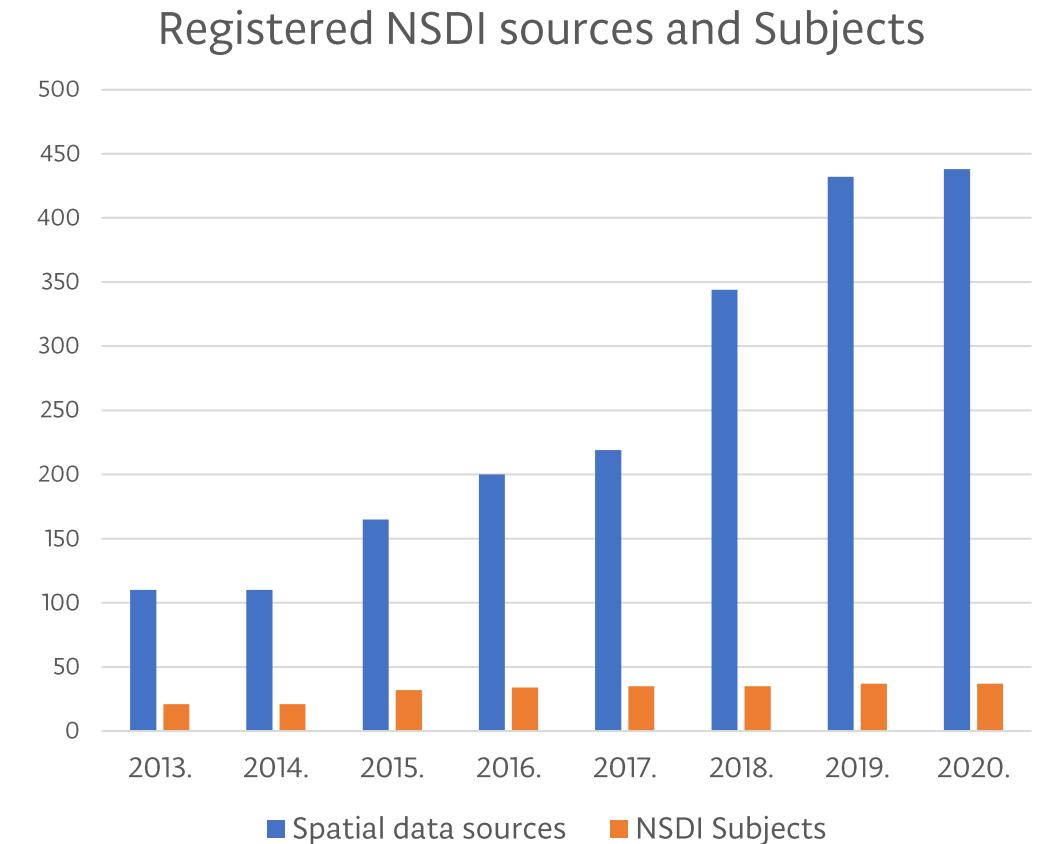
Scope of work

- Real-estate cadastre
- State survey:
 - Digital orthophoto
 - Basic Topographic Database
 - State cartography (1:5000, 1:25 000, 1:50 000, 1:100 000, 1:250 000)
 - Geodetic and cadastral affairs for the state border
 - Basic geodetic work
- Register of Spatial Units (administrative units and addresses)
- Register of Geographical Names
- Infrastructure cadastre
- Buildings register
- National Spatial Data Infrastructure

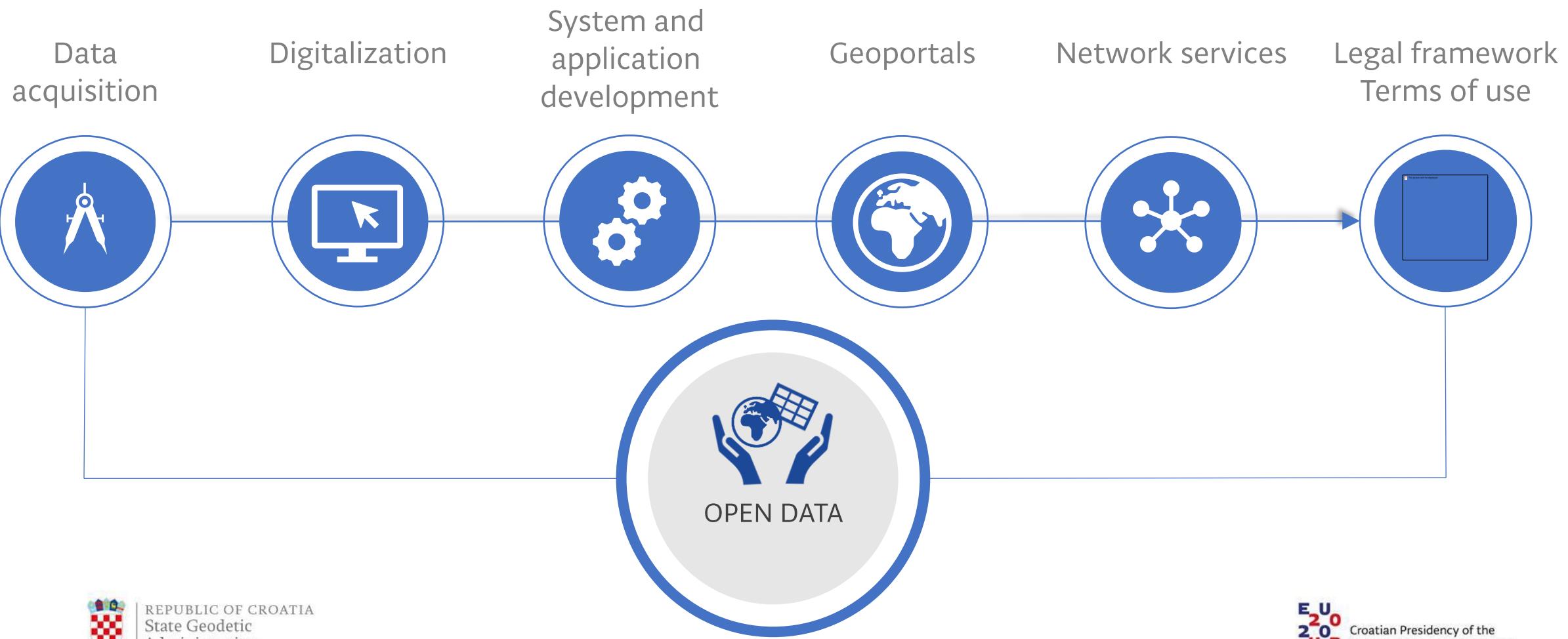


National Spatial Data Infrastructure

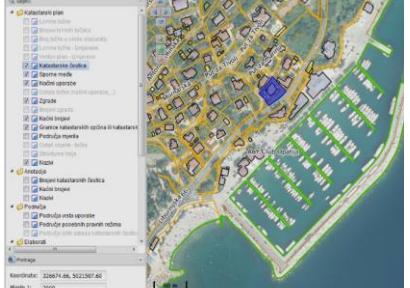
- 439 NSDI spatial data sources:
 - 231 dataset
 - 208 network services
- 37 NSDI Subjects
- 2 projects co-financed by the European Structural Funds:
 - Capacity building for the National Spatial Data Infrastructure establishment – ESF
 - Increasing availability of NSDI spatial data through e-services – ERDF



Journey from analogue data to open data



Effort made on spatial data accessibility and openness



INTEGRATED TEXTUAL AND GRAPHIC DATA

OSS

Subsystem of JIS
Export of cadastral and land registry data
Delivering of geodetic reports

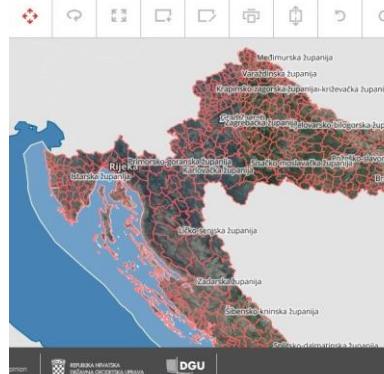


Sustav digitalnih geodetskih elaborata - SDGE

- Evidencija poslova
- GIS preglednik
- Upisnik
- Geodetski elaborati
- Kontrola kvaliteta elaborata i DKP-a
- Konverzija GML-a u CAD
- Pregled digitalne arhive

SUR

Spatial Units Register
6 757 settlements
51 097 streets and squares
1 484 479 house no.



REPUBLIC OF CROATIA
STATE GEODETIC ADMINISTRATION
DGU

DAS

Digital archives system
> 16 000 000 scanned documents

JIS

Joint land registry and cadaster information system
> 14 000 000 cadastral parcels



Zajednički informacijski sustav zemljopisnih knjiga i katastra jedinstvenog poslužila mješta

Pretraživanje podataka o zemljopisnim knjigama i katastrima

0 Novih poslova 151 Naročenih poslova

Najnovije vijesti

Izdavanje katarskih javnih isprava putem one stop shopa i sustava e-gradani

Zagreb - 01.03.2011

Obavijest o raspisivanju o izdavanju javnih isprava putem e-gradani

1. Kada je katalogiran plan

2. Projekcije i izgledne podatke

3. Izvješće iz baze zemljopisnih podataka

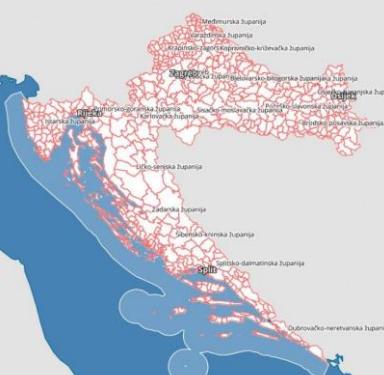
Pristup katarskim podacima elektroničkim putem ostvaruje se putem OSS-e, jedinstvenog poslužila mješta zemljopisnih knjiga i jednim sažetnjem može se tražiti više različitih javnih isprava iz različitih katarskih ureda. Korisnik (e-gradani) u elektronički sanduči do ovačko izdavanja isprava ima pravnu veljnost kao i isprava na papiru izjavljena putem poslovne službe posla.

IZDAVANJE KATARSKIH JAVNIH ISPRAVA PUTEM ONE STOP SHOPA I SUSTAVA E-GRADANI

DGU

DGRS

Creating and validating elaborates
> 2 500 users
> 34 000 produced digital geodetic reports



REPUBLIC OF CROATIA
STATE GEODETIC ADMINISTRATION
DGU

GEOPORTAL

Network services
DOF (2011, 2014/2016, 2017/2018)
SUR
Topographic maps



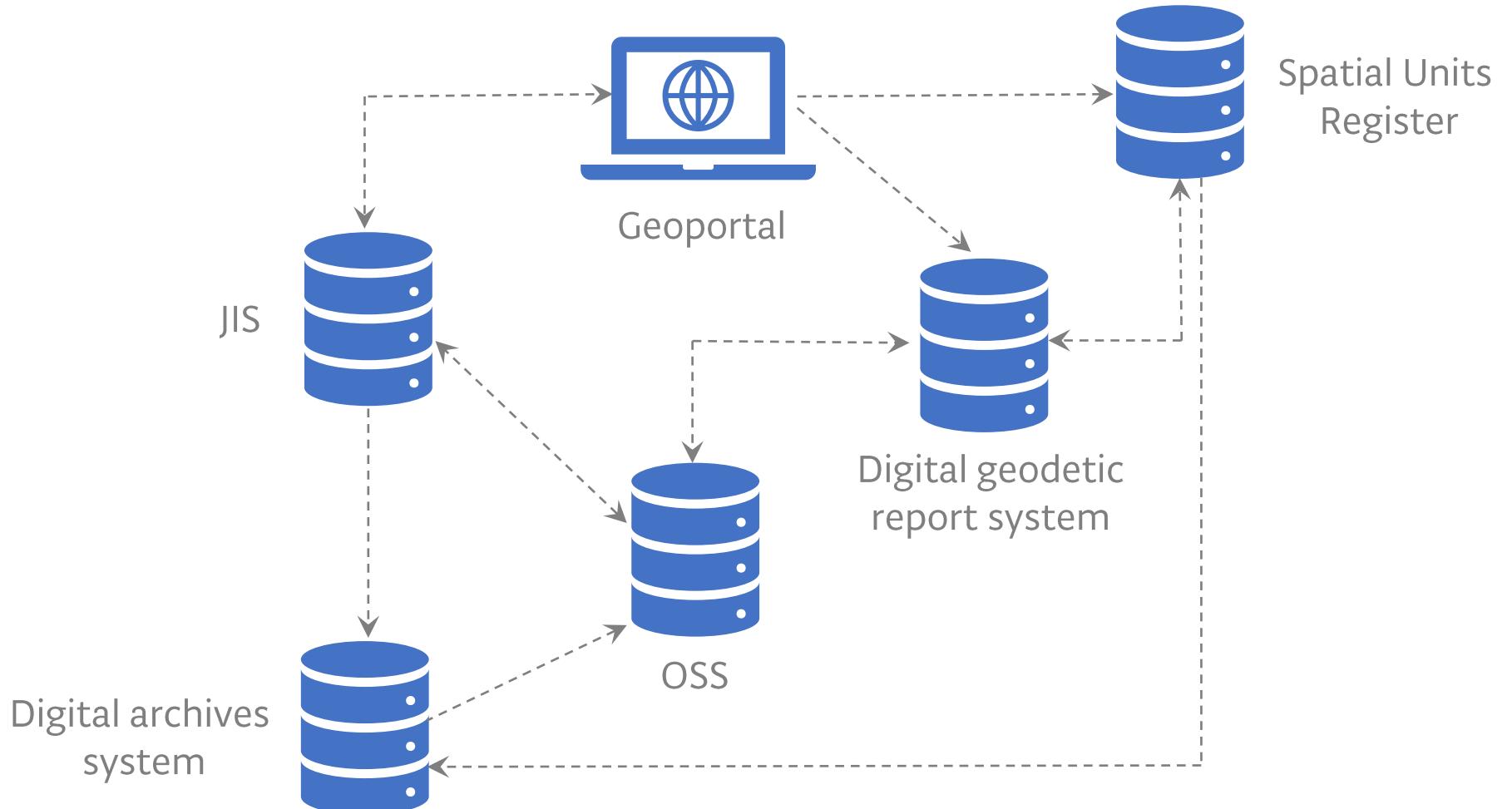
Sustav digitalnog arhiva (SDA)

16.255.995 Dokumenta u arhivu: 3.999.074

Prijava

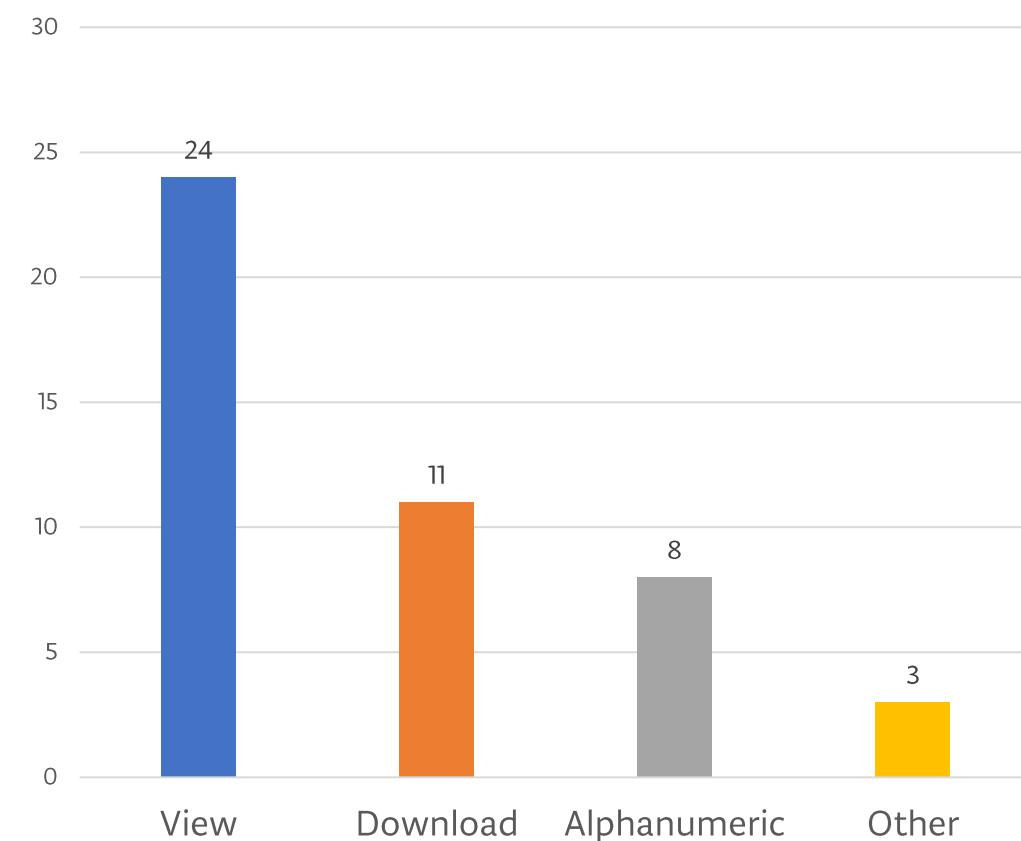


SGA system interoperability



Development of spatial data services

Spatial dataset	Type of service	Type of licence	Marginal costs
Digital cadastral plan	WMS, WFS	SGA licence	Yes
Digital orthophoto	WMS, WMTS	SGA licence	No
Croatian Base Map (1: 5000)	WMS, WMTS	SGA licence	No
Topographic maps (1: 25000, 1: 100000, 1: 200000)	WMS, WMTS	SGA licence	No
Digital elevation model	WMS, WCS	SGA licence	Yes
Register od Spatial Units	WMS, WFS	SGA licence	Yes
Register of Geographical Names	WMS, WFS	SGA licence	No



Cadastral data available to everyone

<https://katastar.hr/en>



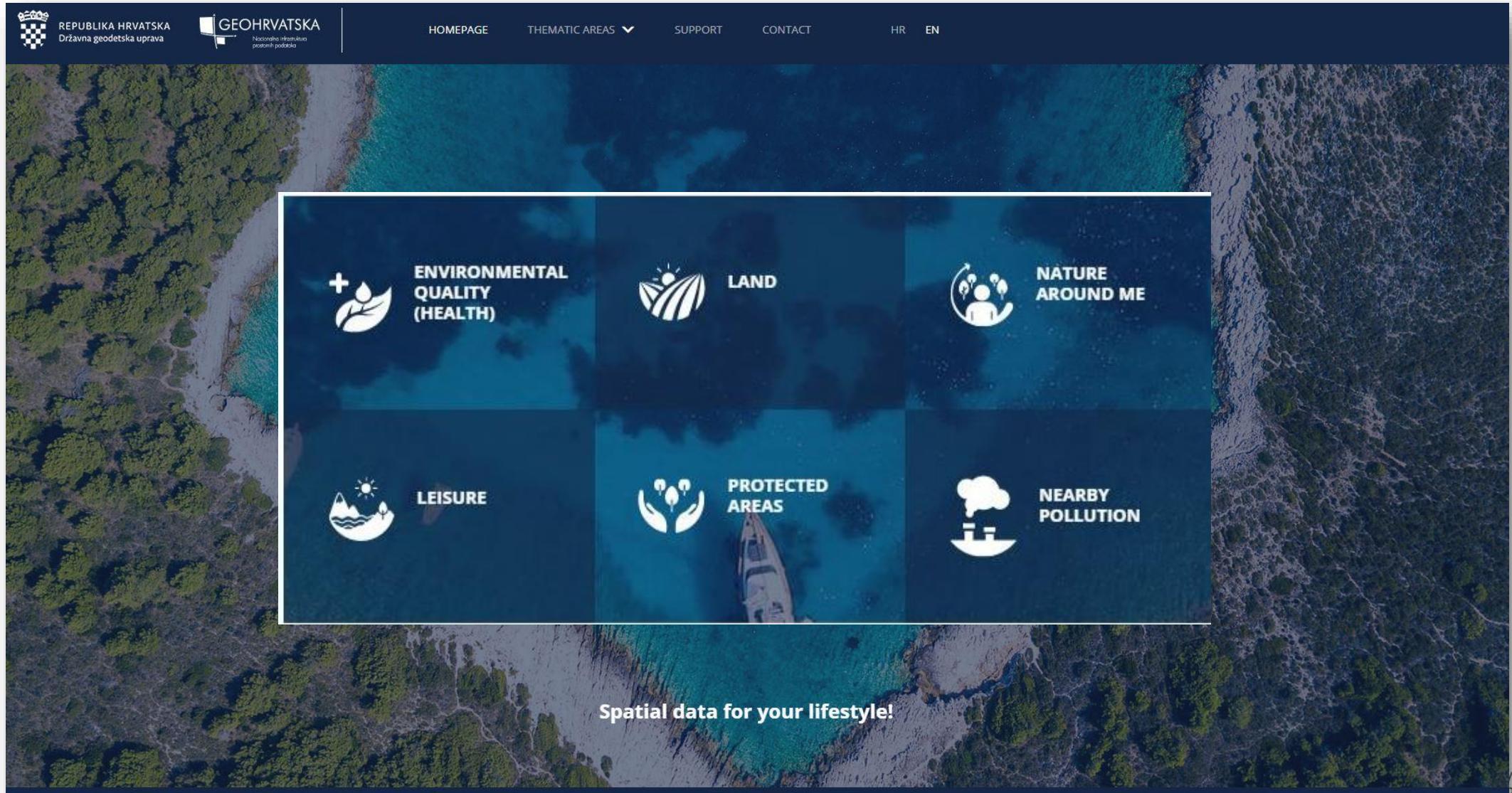
INFORMATION AT YOUR FINGERTIPS

The right address is the key to solving the problem

[FIND OUT MORE](#)

 Locate me	 Find cadastral parcel	 Find address	 Find cadastral office	 Find land registry department	 Find surveyor
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GeoHrvatska – spatial data of the Republic of Croatia



REPUBLICA HRVATSKA
Državna geodetska uprava

GEOHRVATSKA
Nacionalna infrastrukura
prostornih podataka

HOME PAGE

THEMATIC AREAS ▾

SUPPORT

CONTACT

HR EN

ENVIRONMENTAL QUALITY (HEALTH)

LAND

NATURE AROUND ME

LEISURE

PROTECTED AREAS

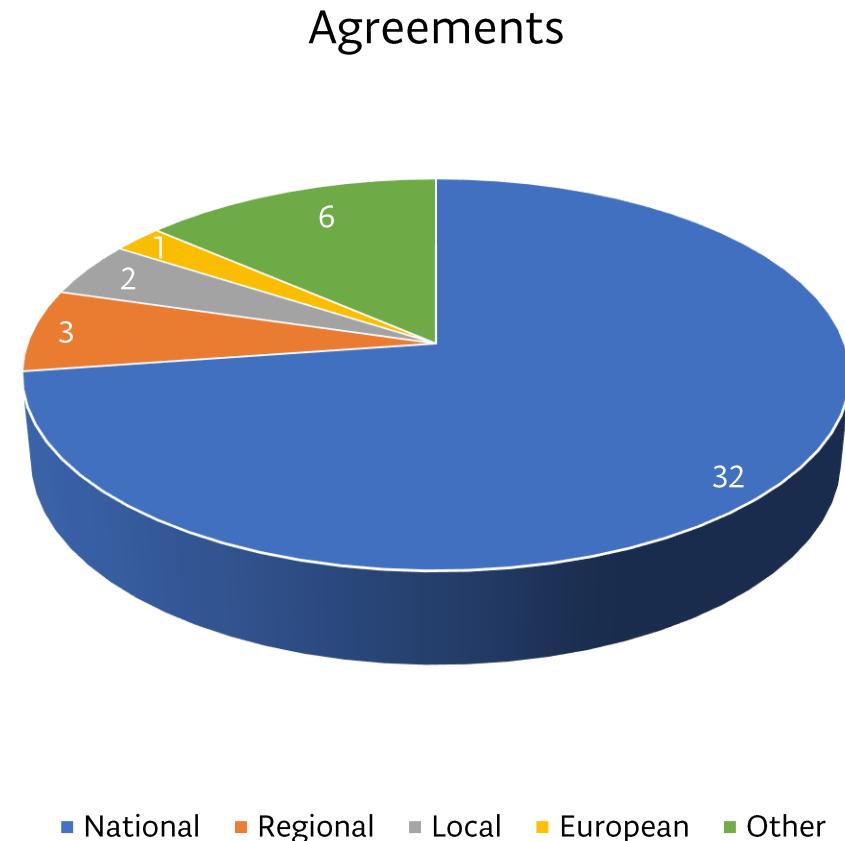
NEARBY POLLUTION

Spatial data for your lifestyle!

of the European Union

Reuse of SGA data

- Ordinance on determining marginal costs of using the data of State Survey and Real Estate Cadastre (OG 59/18)
 - Marginal costs
 - Terms of use
- 44 active agreements
- Data sharing with public administration bodies – free of charge



SGA general terms of use

Commercial and non-commercial
use

No sharing, copy or redistribution of
original

Adapt – remix, transform, and build
upon the original data

Publication of original data only in
raster format

Attribution



Data sharing and accessibility

1

Sharing on digital media
(portable storage, USB,
CD/DVD, etc.)

2

Spatial services (view,
download) and
alphanumeric services

3

Data accessible through SGA
or NSDI Geoportals

4

Specialized applications (JIS,
OSS, DGRS, Katastar.hr,
GeoHrvatska)



Next steps...

- In 2021 - **list of specific high value datasets** defined by Directive (EU) 2019/1024 of the European Parliament and of the Council of 20 June 2019 on open data and the re-use of public sector information.
- By QII 2021 implementation of the Action Plan of the Government of the Republic of Croatia from 28. May 2020 which **abolishes marginal costs for all datasets**.
- Preparing amendments of:
 - Law on State Survey and Real Estate Cadastre (OG 112/18)
 - Ordinance on determining marginal costs of using the data of State Survey and Real Estate Cadastre (OG 59/18)
- Defining new Terms of Use



Conclusions

- SGA has made a lot of effort in digitalizing and preparing its spatial data for sharing and reuse.
- Many databases, systems and applications have been developed to administer the data more efficiently.
- The number of network services and their availability has grown in the last few years as well as the number of its users.
- We expects that future opening of the data will bring many positive feedbacks, e.g., data quality improvement, increase of administration transparency as well as business and economic growth.



Thank you for the attention!



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