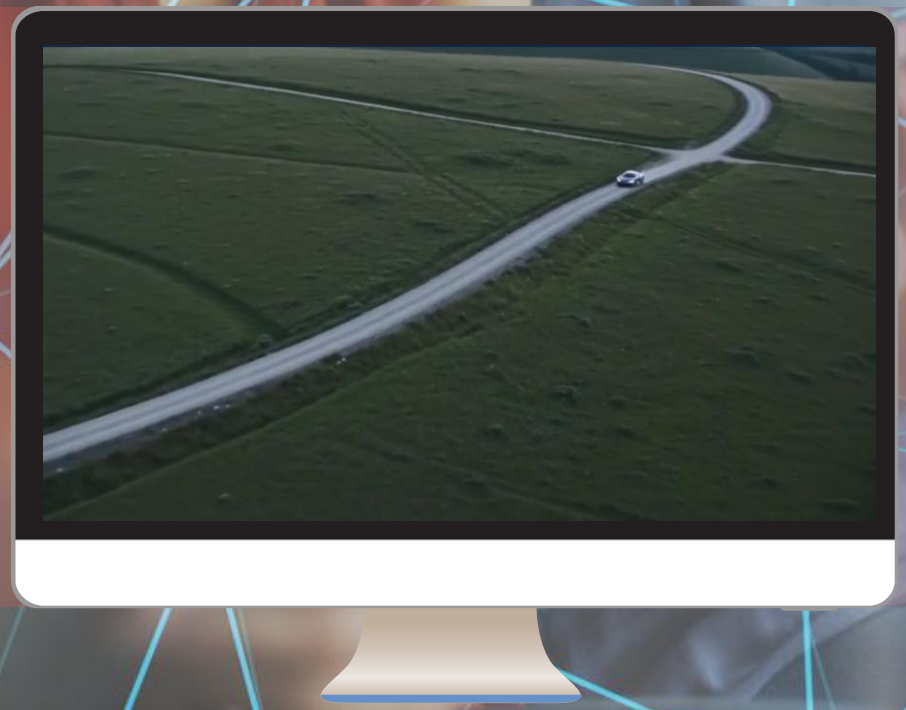
REPUBLIKA HRVATSKA
Državna geodetska uprava

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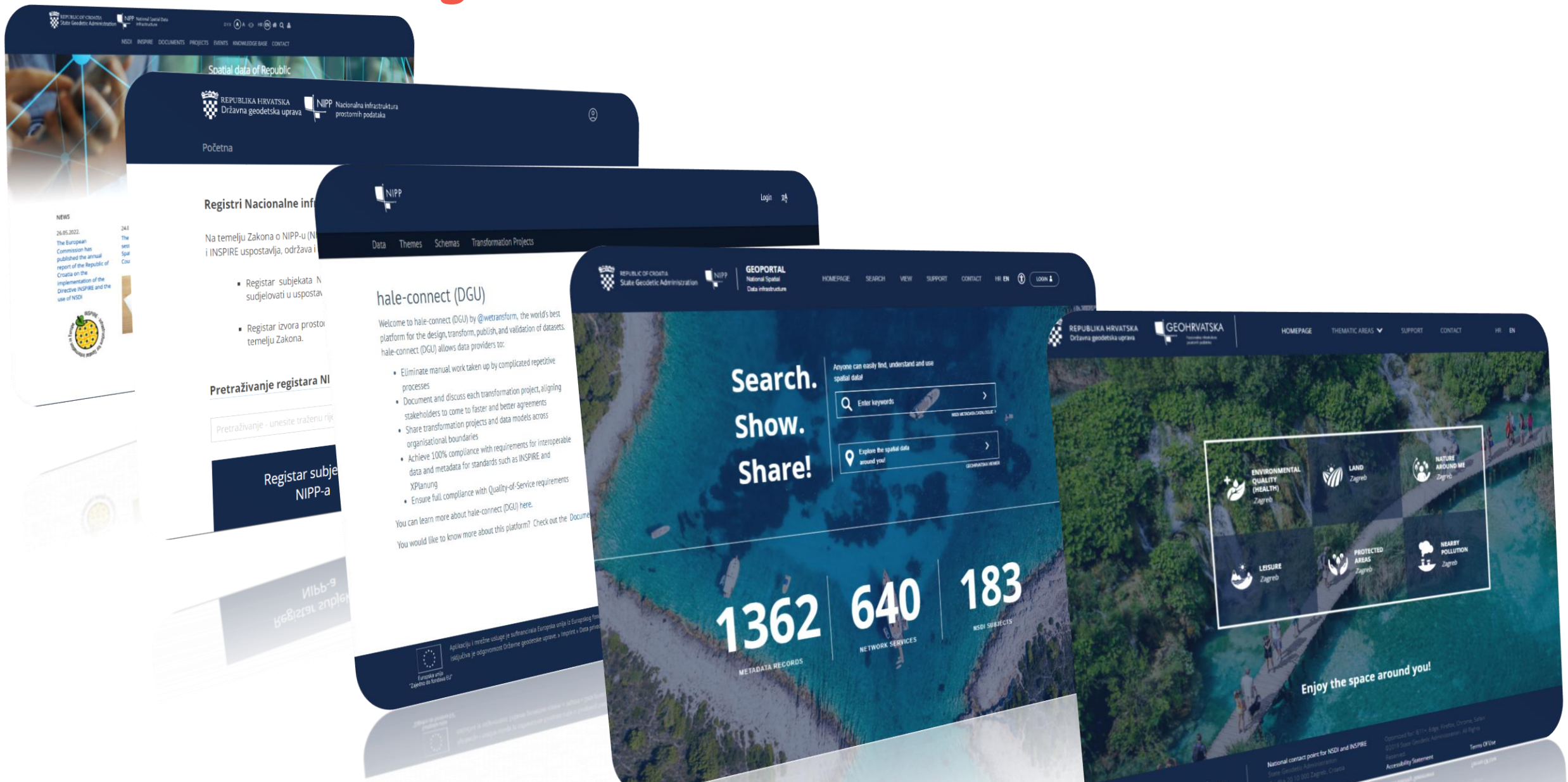
Tomislav Ciceli

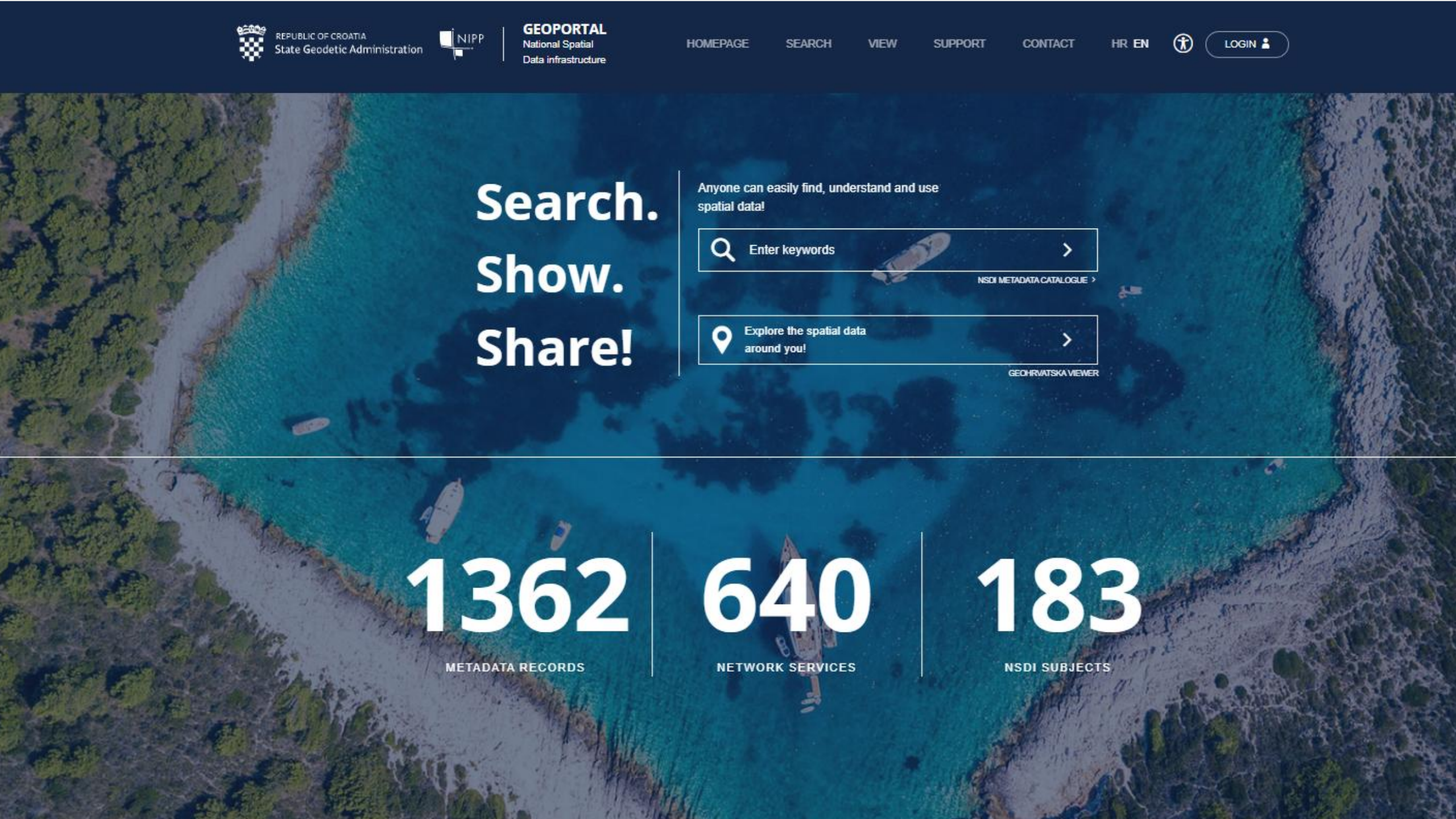
EVOLUTION OF NSDI GEOPORTAL

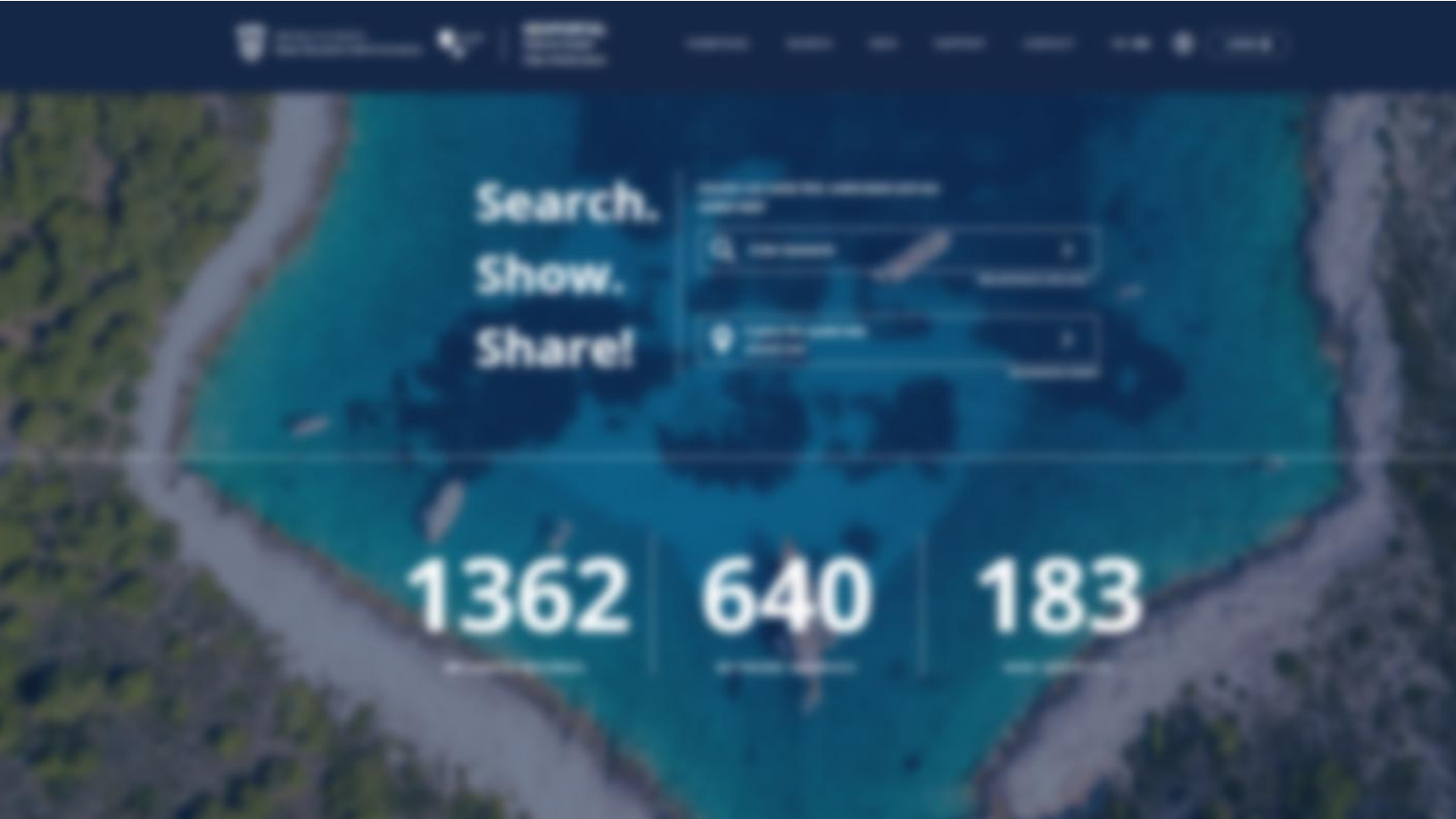
Budapest, 9. October 2026

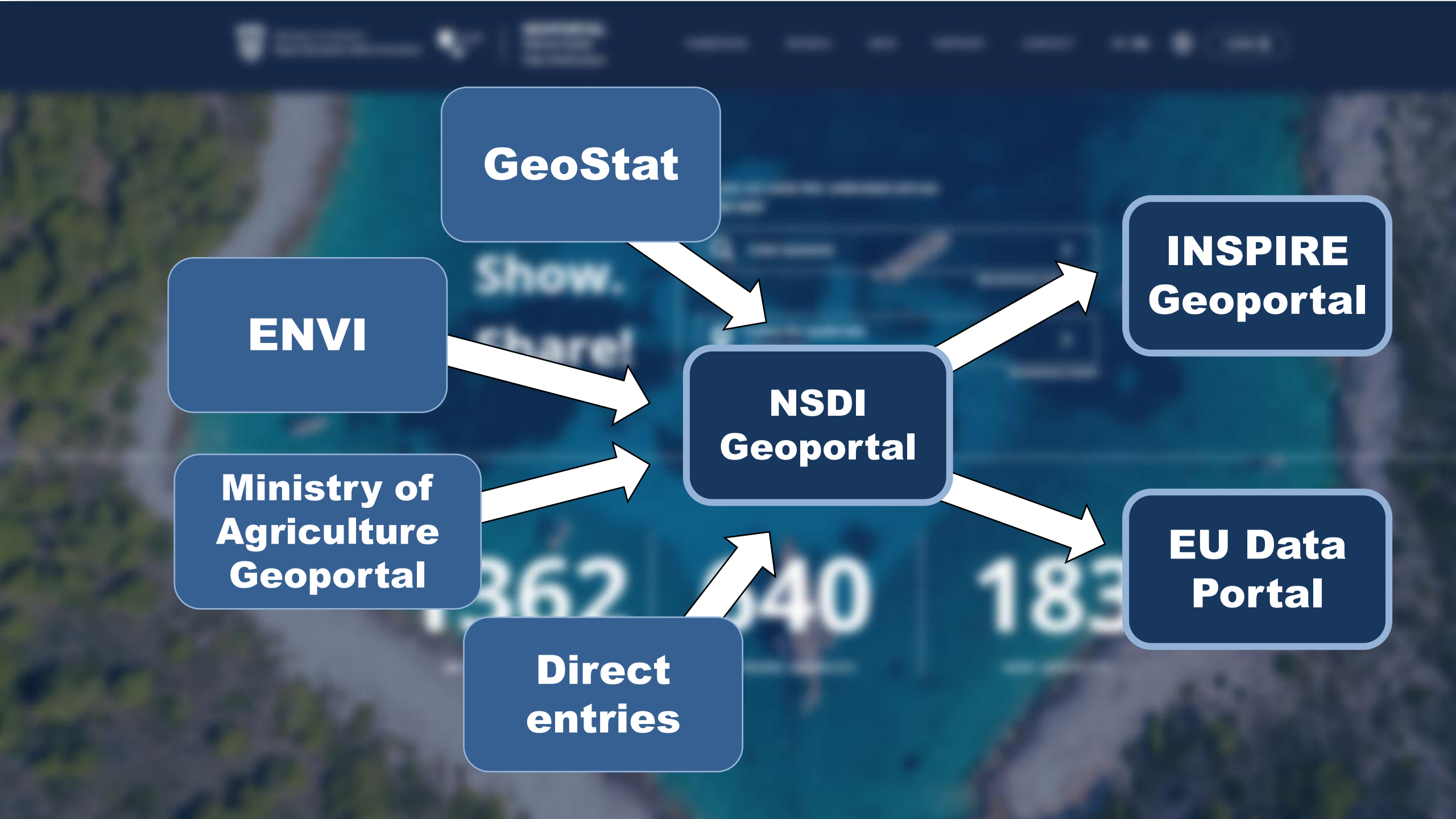

Better cars need
better roads!

NSDI Ecosystem




REPUBLIC OF CROATIA
State Geodetic Administration
NIPP
GEOPORTAL
National Spatial
Data infrastructure
HOMEPAGE
SEARCH
VIEW
SUPPORT
CONTACT
HR EN
LOGIN
Search.
Show.
Share!
Anyone can easily find, understand and use spatial data!
Enter keywords
NSDI METADATA CATALOGUE
Explore the spatial data around you!
GEOHRVATSKA VIEWER
1362
METADATA RECORDS
640
NETWORK SERVICES
183
NSDI SUBJECTS


Search.
Show.
Share!
1362
640
183


GeoStat
ENVI
Ministry of Agriculture Geoportal
Direct entries
NSDI Geoportal
INSPIRE Geoportal
EU Data Portal

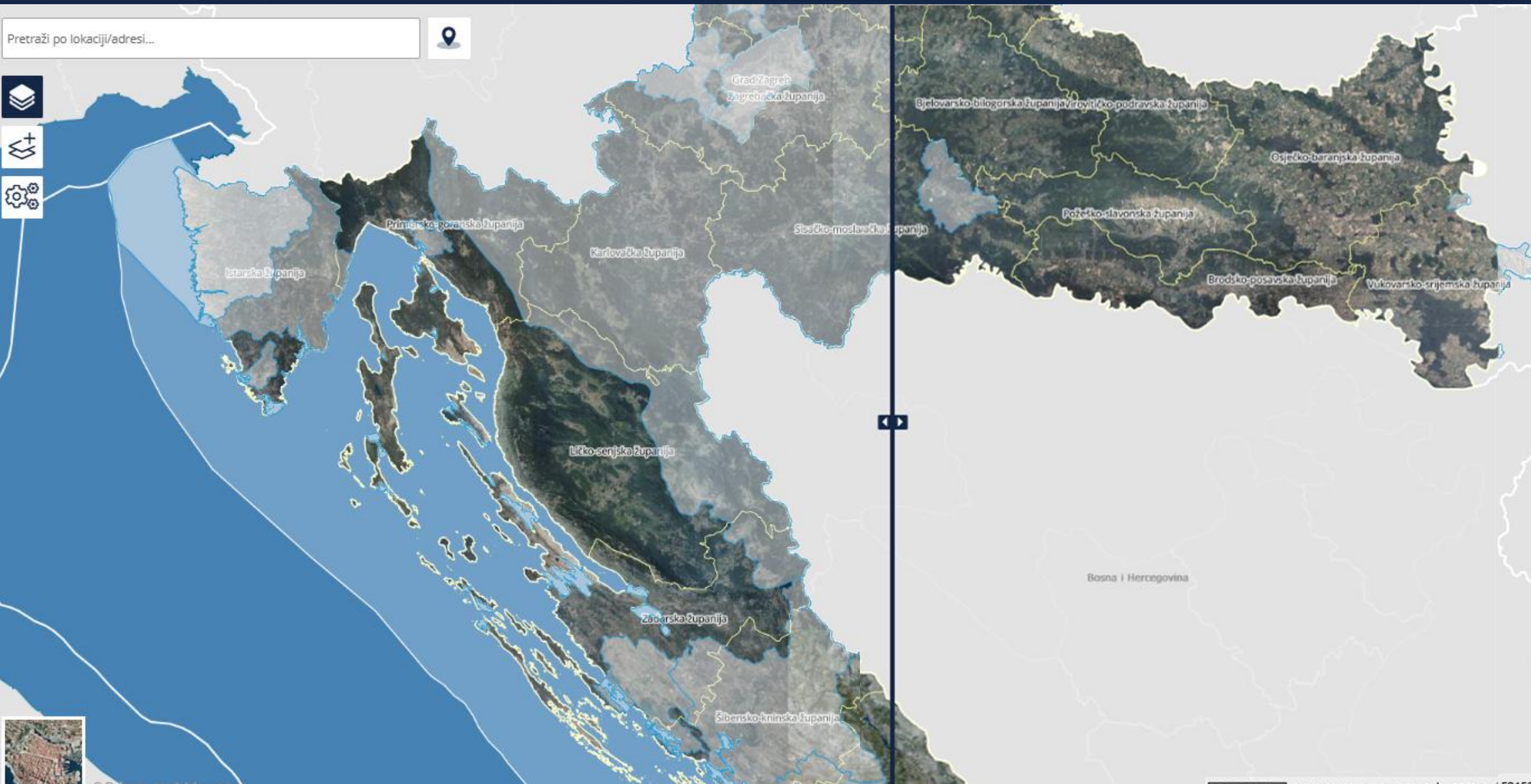
NSDI Metadata Catalogue

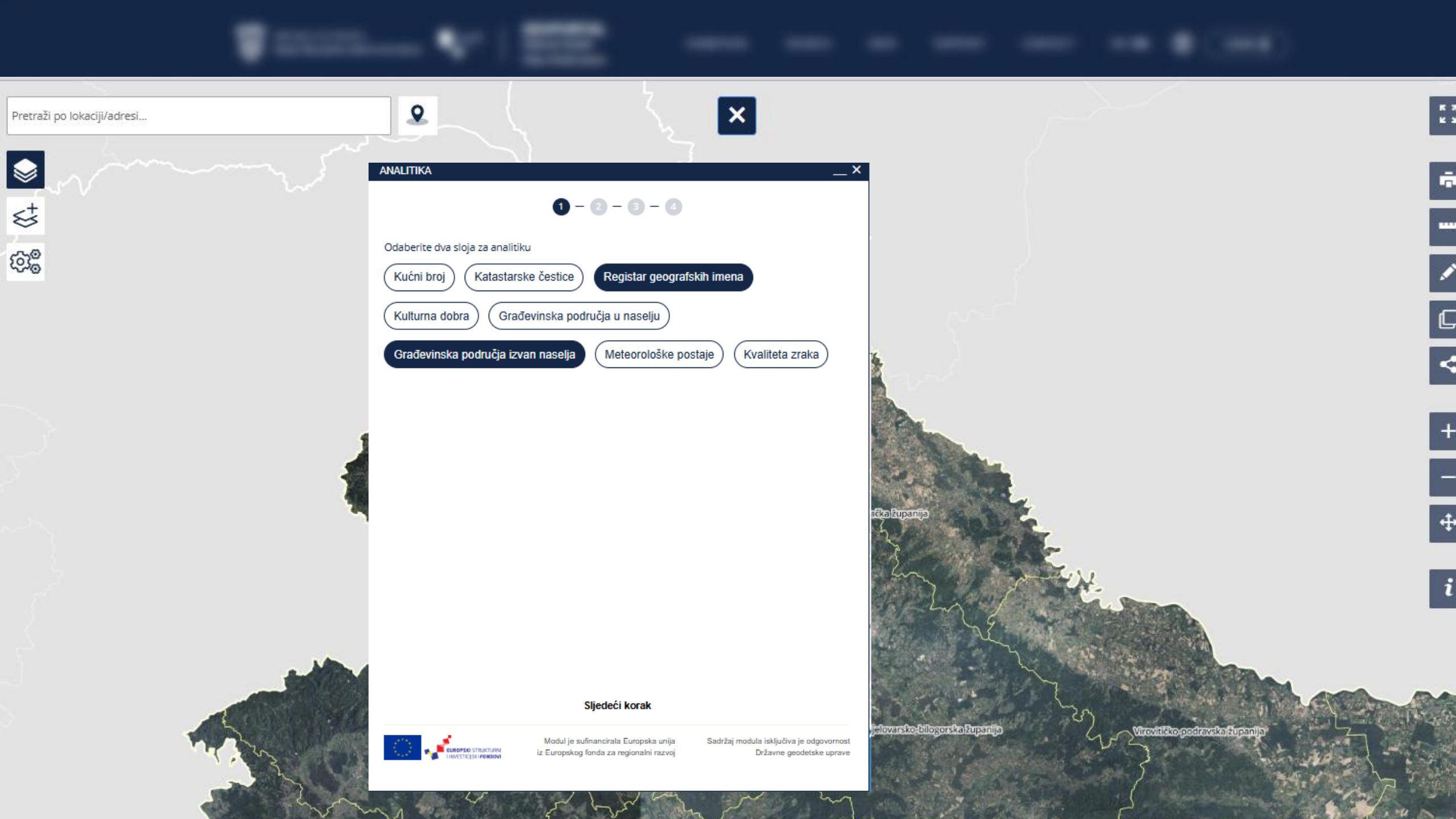
Central place for accessing NSDI spatial data

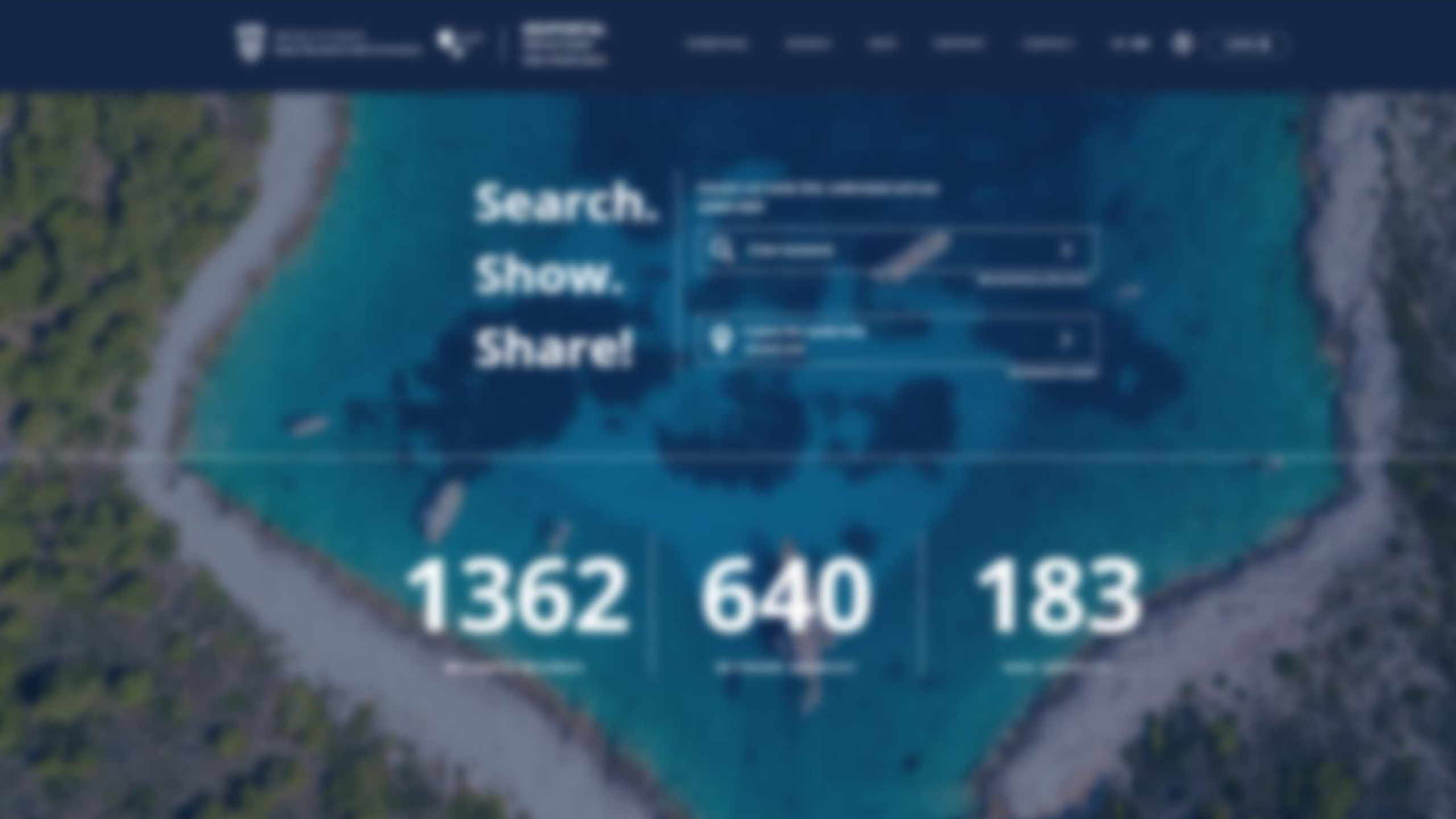
Based on NSDI Metadata Specification (3.1)

Entities independently enter metadata records

Harvesting of other Metadata Catalogues


Pretraži po lokaciji/adresi...
Grad Zagreb
Zagrebačka županija
Bjelovarsko-bilogorska županija
Virovitičko-podravska županija
Osječko-baranjska županija
Požeško-slavonska županija
Brodsko-posavska županija
Vukovarsko-srijemska županija
Primorsko-goranska županija
Sisačko-moslavačka županija
Karlovačka županija
Istarska županija
Ličko-senjska županija
Zadarska županija
Šibensko-kninska županija
Bosna i Hercegovina


Pretraži po lokaciji/adresi...
ANALITIKA
1 – 2 – 3 – 4
Odaberite dva sloja za analitiku
Kućni broj
Katastarske čestice
Registar geografskih imena
Kulturna dobra
Građevinska područja u naselju
Građevinska područja izvan naselja
Meteorološke postaje
Kvaliteta zraka
Sljedeći korak
Modul je sufinancirala Europska unija iz Europskog fonda za regionalni razvoj
Sadržaj modula isključiva je odgovornost Državne geodetske uprave
Virovitičko-podravska županija


Search.
Show.
Share!
1362
640
183

USED TEHNOLOGIES

Spatial Data

Database

PostgreSQL

PostGIS

OGC network services
NSDI entities

Data Servers

Finding and Serving Data

GeoServer

elasticsearch

GeoHealthCheck

GeoNetwork opensource

Web Viewer

Aplication

Java

Apache Tomcat

APACHE HTTP SERVER PROJECT

OpenLayers

ANGULAR

NSDI GEOPORTAL

Central place for :

- finding NSDI spatial data
- health overview of infrastructure
- bacis overview and usage of data

Quality!

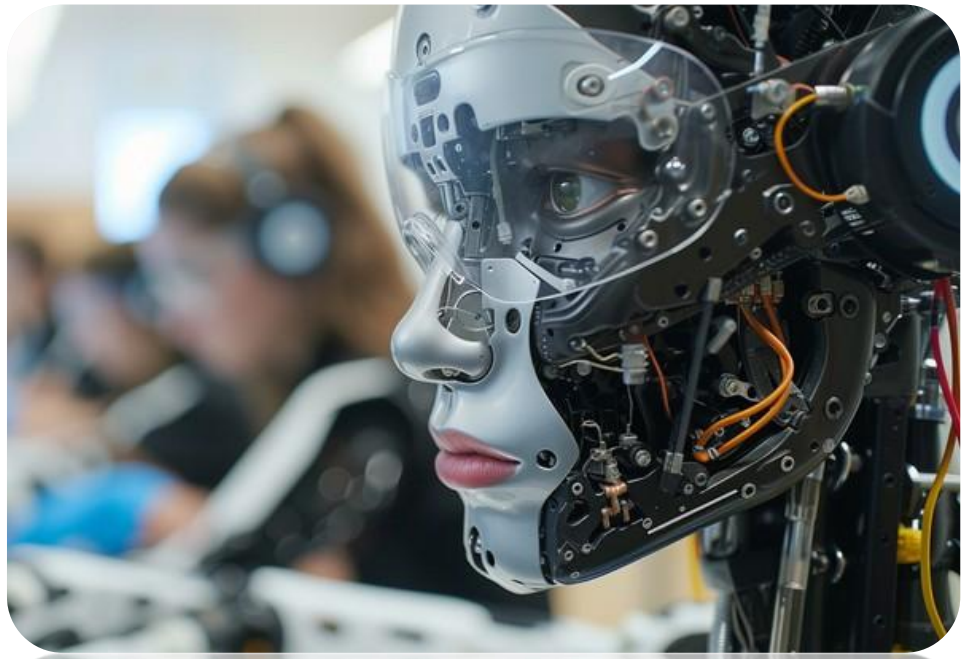


Quality is meeting requirements.

Philip Crosby

Quality is suitability for use..

Jospeh M. Juran





GeoNetwork 4.4.9 upgrade

Advanced search – Elasticsearch, full-text search, facets and spatial filters
Interoperability – CSW, REST/OpenAPI, OAI-PMH, DCAT / GeoDCAT-AP
Harvesting – connecting to and collecting metadata from distributed sources
TAC support – improved integration of modern spatial and Earth Observation resources
Machine-readable formats – JSON, JSON-LD, schema.org



GeoNetwork and AI Potential

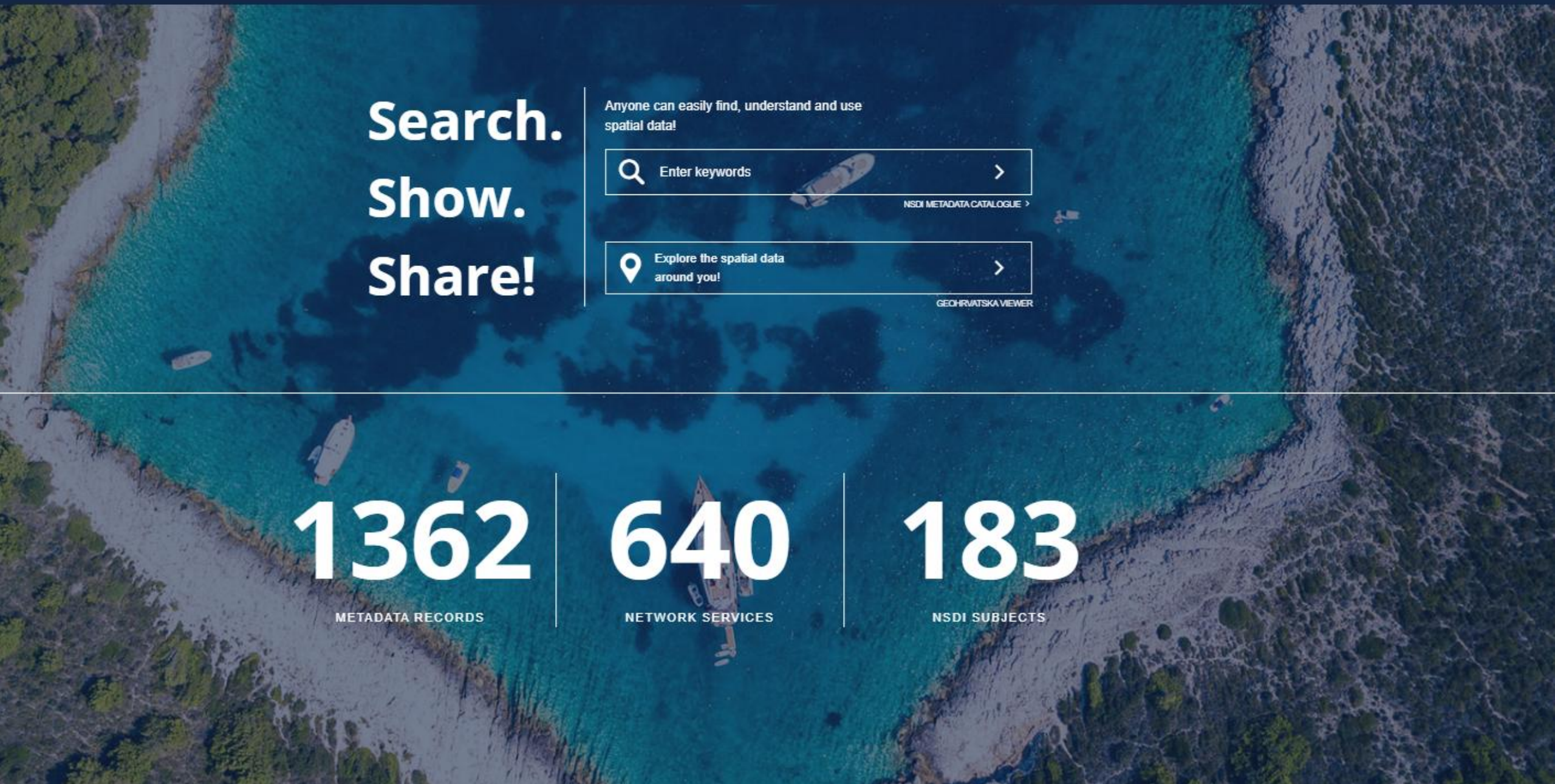
Structured metadata provides AI with reliable context about datasets and services

API access enables automated search and retrieval of information

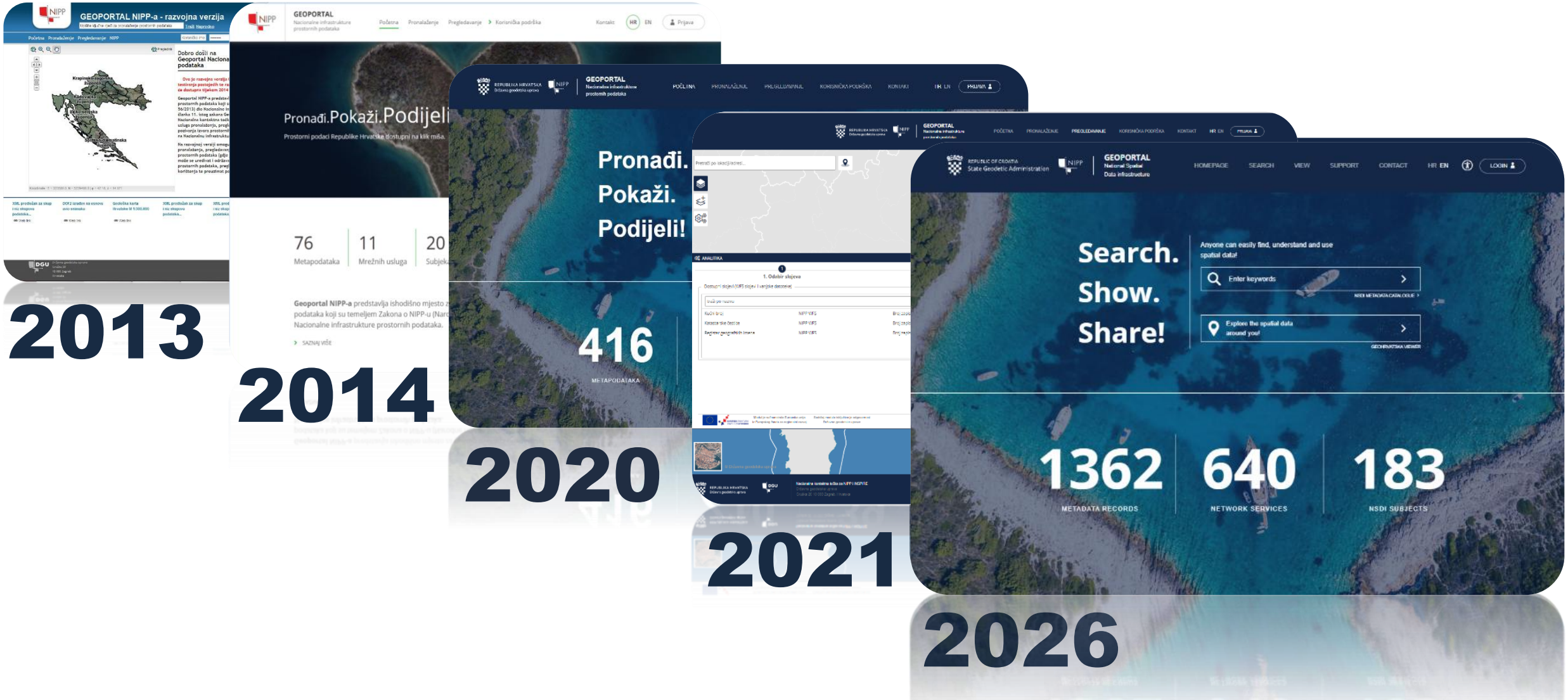
DCAT / JSON-LD / schema.org support machine understanding of resources

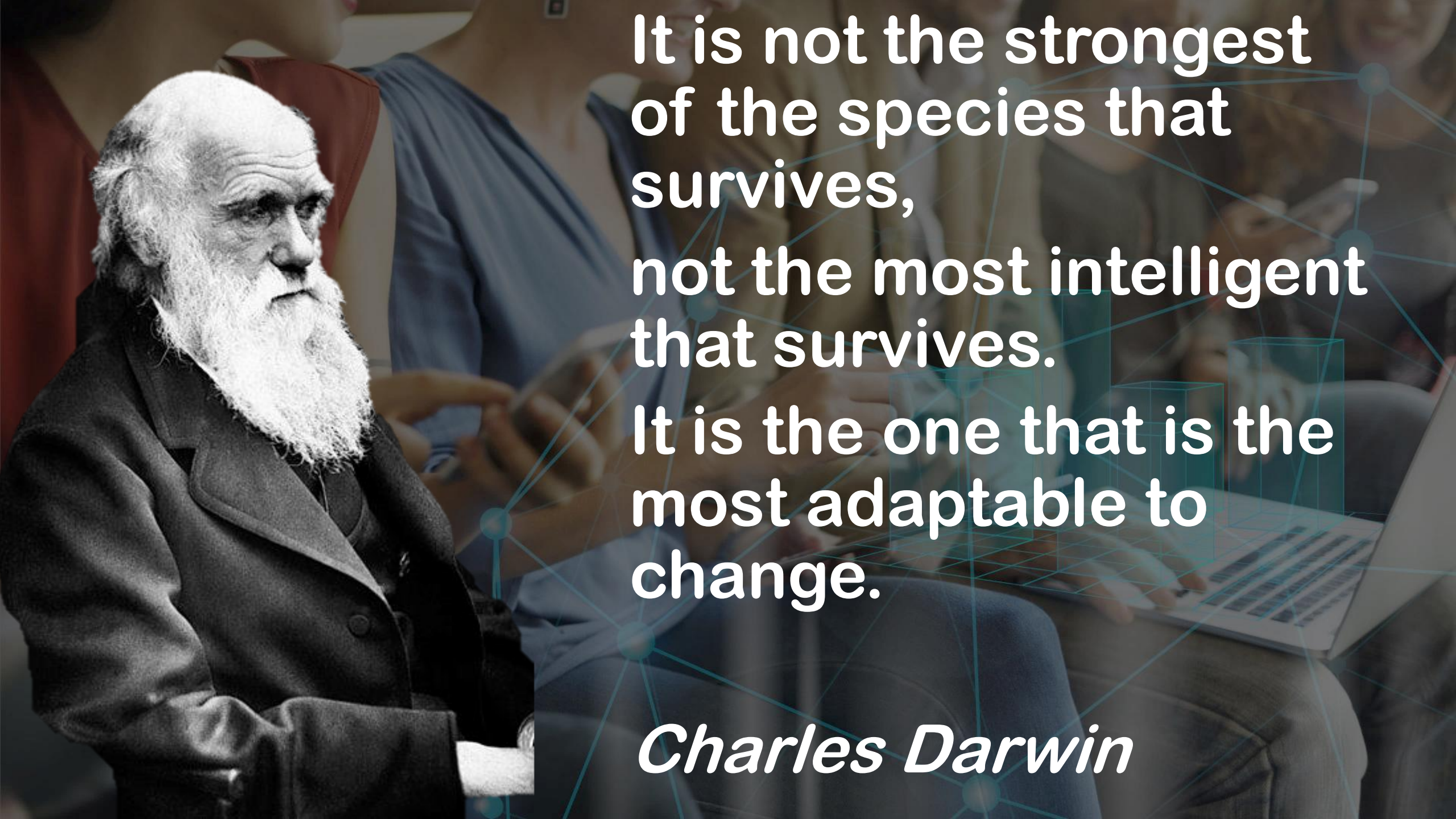
Semantic search can extend traditional keyword-based discovery

AI agents can find data, check usage conditions and suggest access methods


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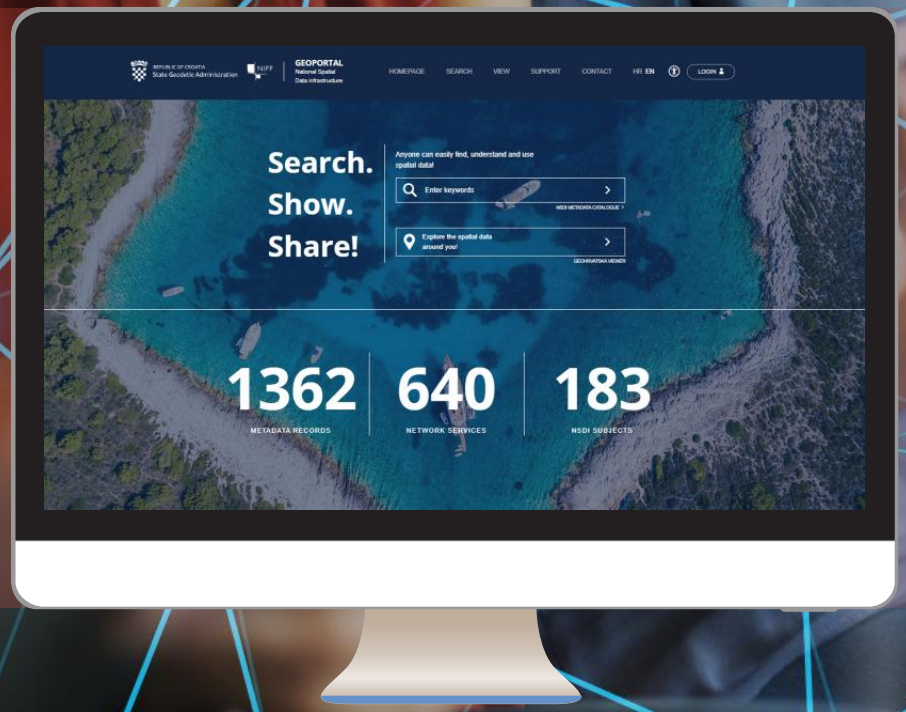
NSDI Geoportal evolution




It is not the strongest
of the species that
survives,
not the most intelligent
that survives.
It is the one that is the
most adaptable to
change.
Charles Darwin

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Državna geodetska uprava

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Thank you for your attention!

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infonipp@dgu.hr