

Danube Reference Data and Service Infrastructure (DRDSI)

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**GEOSPATIAL
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Outline



Research study

What are the impacts of renewable energy extracted from biomass on the economy and environmental pollution in the Danube river basin?

Can water transport improve the situation?

Are there any alternative sources of renewable energy?



- Reference data and thematic data
 - Statistical data (average costs for biomass transport)
 - Geographical data (transport network, biomass sources and processing factories)
 - Environmental data (air pollution, ...)
- Heterogeneity of data in Member States and outside the EU
- Language barriers
- ...

Danube river basin

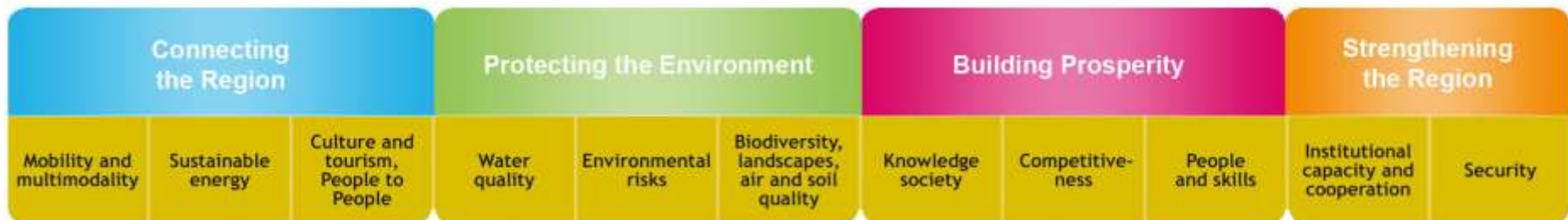
- More than 115 million inhabitants
- Multicultural => 14 countries, more than 20 languages
- Second longest river in Europe and longest in the EU (2,848 km)
- 1/5 of the EU territory



EU Strategy for the Danube Region (EUSDR)



- A **macroregional strategy**, endorsed in June 2011 by the European Council.
- Tackles challenges of the Danube Region in an **integrated manner**.
- **Cross-border** scenarios including floods, transport, energy, environment protection and security.
- 11 Priority Areas



Scientific Support to the Danube Strategy

- **Joint Research Centre of the EC, November 2011**
- **Bridge the gap** between data and their relevant exploitation and interpretation
- **Reinforce ties and cooperation amongst the scientific community of the Danube Region**



Danube Reference Data and Service Infrastructure (DRDSI)



An online **open platform** for publication, discovery, viewing and downloading data coming from:

1. the European Commission
2. national and international stakeholders
3. European, regional and national projects

Coordination: Joint Research Centre of the EC

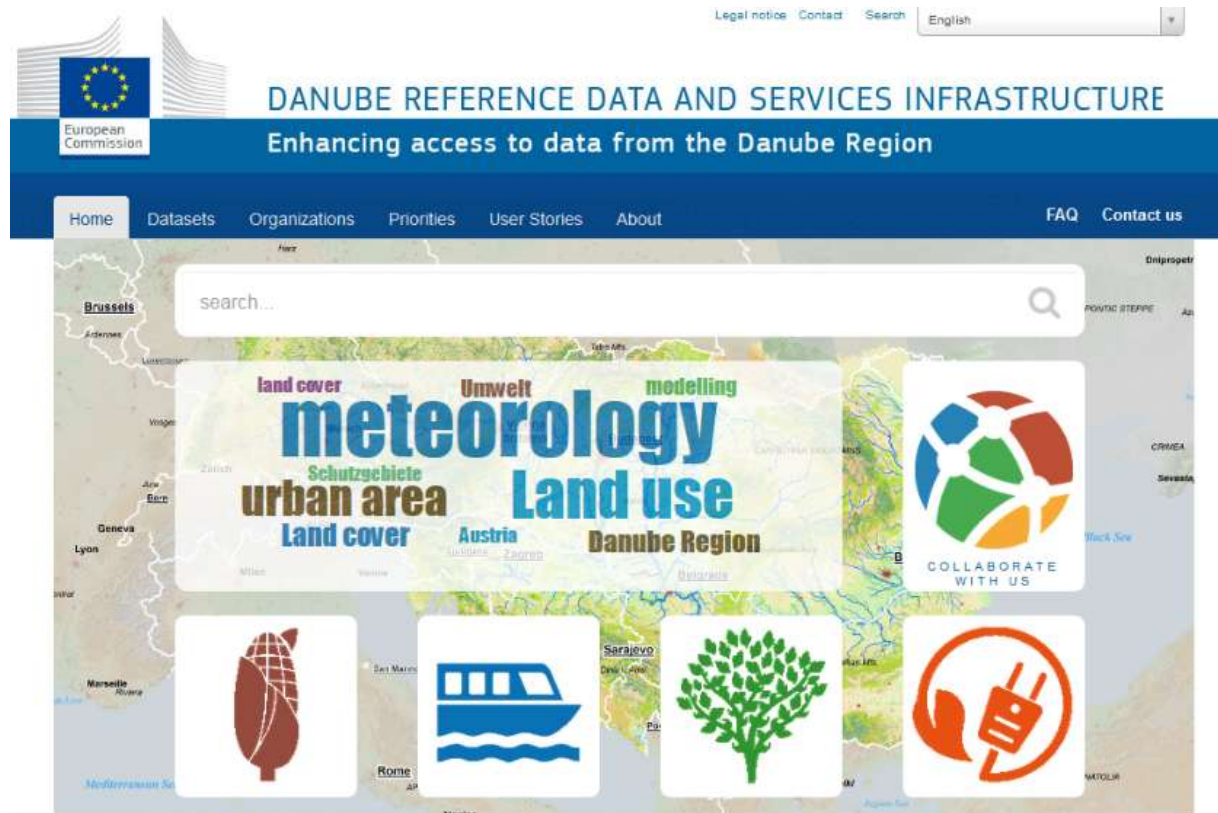
Collaboration: a network (DANUBE_NET) of representatives from every country of the Danube region

Objectives

- Single access point to data from the Danube Region
- Platform for collaboration - sharing data, services and project results
- Danube Region community building
- Platform for research
- Sustainable platform – business model
- Real test for INSPIRE – cross-border harmonisation, data and service integration

DRDSI Portal

- <http://drdsi.jrc.ec.europa.eu/>
- Based on open source tools (such as [CKAN](#) for metadata and [MapStore](#) for data visualization)



The screenshot displays the DRDSI Portal website. At the top left is the European Commission logo. The main header reads "DANUBE REFERENCE DATA AND SERVICES INFRASTRUCTURE" and "Enhancing access to data from the Danube Region". A navigation menu includes "Home", "Datasets", "Organizations", "Priorities", "User Stories", "About", "FAQ", and "Contact us". A search bar is positioned above a map of the Danube region. The map features several data layers: "land cover", "urban area", "Land cover", "Austria", "Zagreb", "Danube Region", "meteorology", "Land use", "Umwelt", "modelling", and "Schutzgebiete". A "COLLABORATE WITH US" button is visible on the right. Below the map are four icons: a leaf, a boat, a tree, and a plug.

Benefits

- Provide a **common entry point** for data, projects, applications, training materials, experts, user feedback,
- Facilitate **coordination and cross-border collaboration**
- Support **sharing and re-use** of public sector and other information
- **Leverage investments** for data collection, harmonisation and data access
- Make your **project results** more accessible

INSPIRE X DRDSI

- INSPIRE is a basis for DRDSI
- DRDSI is a showcase of the INSPIRE implementation and its exploitation
- DRDSI extends the data coverage (also non-spatial data, open data, not limited to 34 spatial data themes as defined by INSPIRE)
- DRDSI includes project results, research networks and other documents
- DRDSI uses innovative means for data publication and collection (Linked Data, sensor data, crowdsourcing)
- DRDSI is not only about spatial data



Join the Danube RDSI Comm



The Danube RDSI Community is an open forum avenue for sharing of information, activities, events and promote relevant open communications and discussions about data in the Danube.

<http://drdsi.jrc.ec.europa.eu/drdsi-community>

Everyone can join and contribute to discussions and information transparency via our social media groups:

Yammer Group

<https://www.yammer.com/danuberdsi>



LinkedIn Group

<https://www.linkedin.com/groups/Danube-RDSI>



Join the Danube RDSI Commu



Opportunity for data providers:

- Make your data more accessible and enable their reuse,
- Test and validation of existing services,
- Possibility to join pilot projects in cross-border theme

Opportunity for DRDSI users:

- Possibility to work with harmonised cross-border data
- Exploit data and services for scientific and educational purposes and analyses supporting decision making
- Use data for your business activities
- Share your project results, events, project ideas, ...

Challenges



- Convince organisations to share data. **Break silos' cultures.**
- Establish partnerships for **knowledge sharing.**
- Be **reactive to user demands** (new data / better data).
- Strengthen links between research, industry and public sector by promoting **open data.**
- **Long term sustainability** beyond 2016.
- Ensuring **synergies** with other national, EU and other initiatives (e.g. Copernicus, GEOSS)

Thank you for your att

Join us at <http://drdsi.jrc.ec.europa.eu/>

**Visit the INSPIRE 2.0 stand at the
exhibition hall**

**Come to another workshop: SDI and
sustainable growth, Thursday morning,
Atrium III**



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