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Catalysation of institutional transformations of Higher Education Institutions through the adoption of acceleration services

Open Science and Open Data: Data Archives

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Twinning workshop, Kaunas,
December 9th 2024

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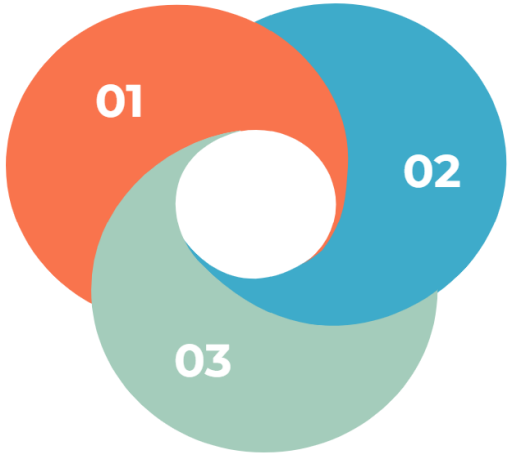
Open science

Drivers of scientific openness

CONSIDER: The 'ivory tower' metaphor to describe scientific communities

The growth of interdisciplinary research leading to cross-department collaborations



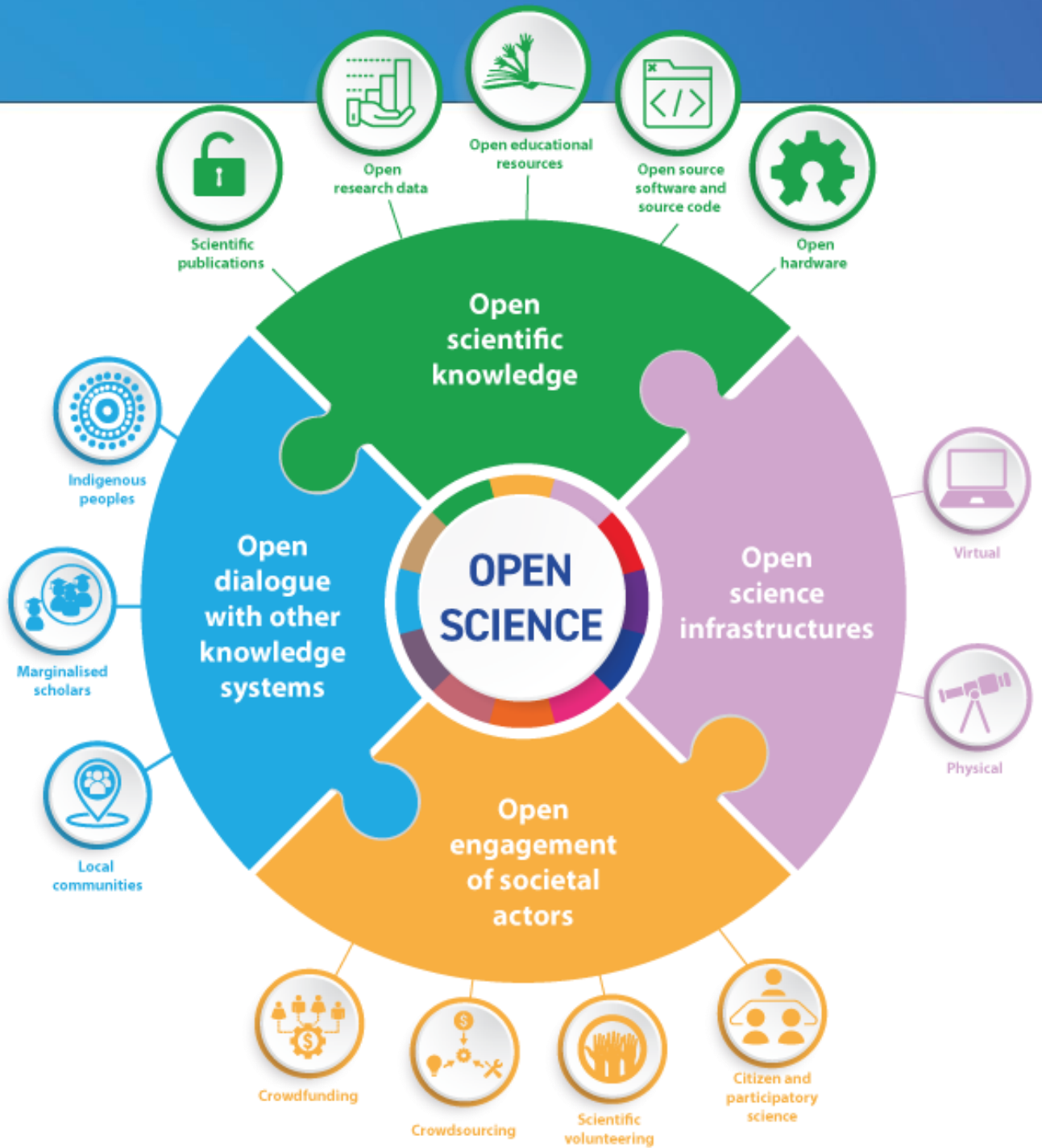
Collaboration between academia, business, and government

Democratization of science and working with citizen scientists

Democratization of science

the **public having greater influence over science** and that influence being shared more equally (Kurtulmuş, 2021)

creating institutions and practices that fully incorporate principles of accessibility, transparency, and accountability. It means **considering the societal outcomes of research** at least as attentively as the scientific and technological outputs. It means insisting that in addition to being rigorous, **science be popular, relevant, and participatory**. (Guston, 2004)


Open research data
Open educational resources
Open source software and source code
Scientific publications
Open hardware
Open scientific knowledge
Indigenous peoples
Marginalised scholars
Local communities
Open dialogue with other knowledge systems
OPEN SCIENCE
Open science infrastructures
Virtual
Physical
Open engagement of societal actors
Crowdfunding
Crowdsourcing
Scientific volunteering
Citizen and participatory science

UNESCO

Questions for discussion (1)

1. What mechanisms can be put in place to ensure the public has a meaningful influence on scientific research agendas?
2. How can scientists effectively balance expert judgment with public expectations in shaping research priorities?
3. What are the challenges and opportunities in universities that fully embrace this type of openness in science?

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Open data

Data life-cycle

Source: Data Governance and Management Toolkit

Open data must be:

FINDABLE

Data has rich metadata and unique identifier

ACCESSIBLE

Data can be easily downloaded or used by using standard protocols

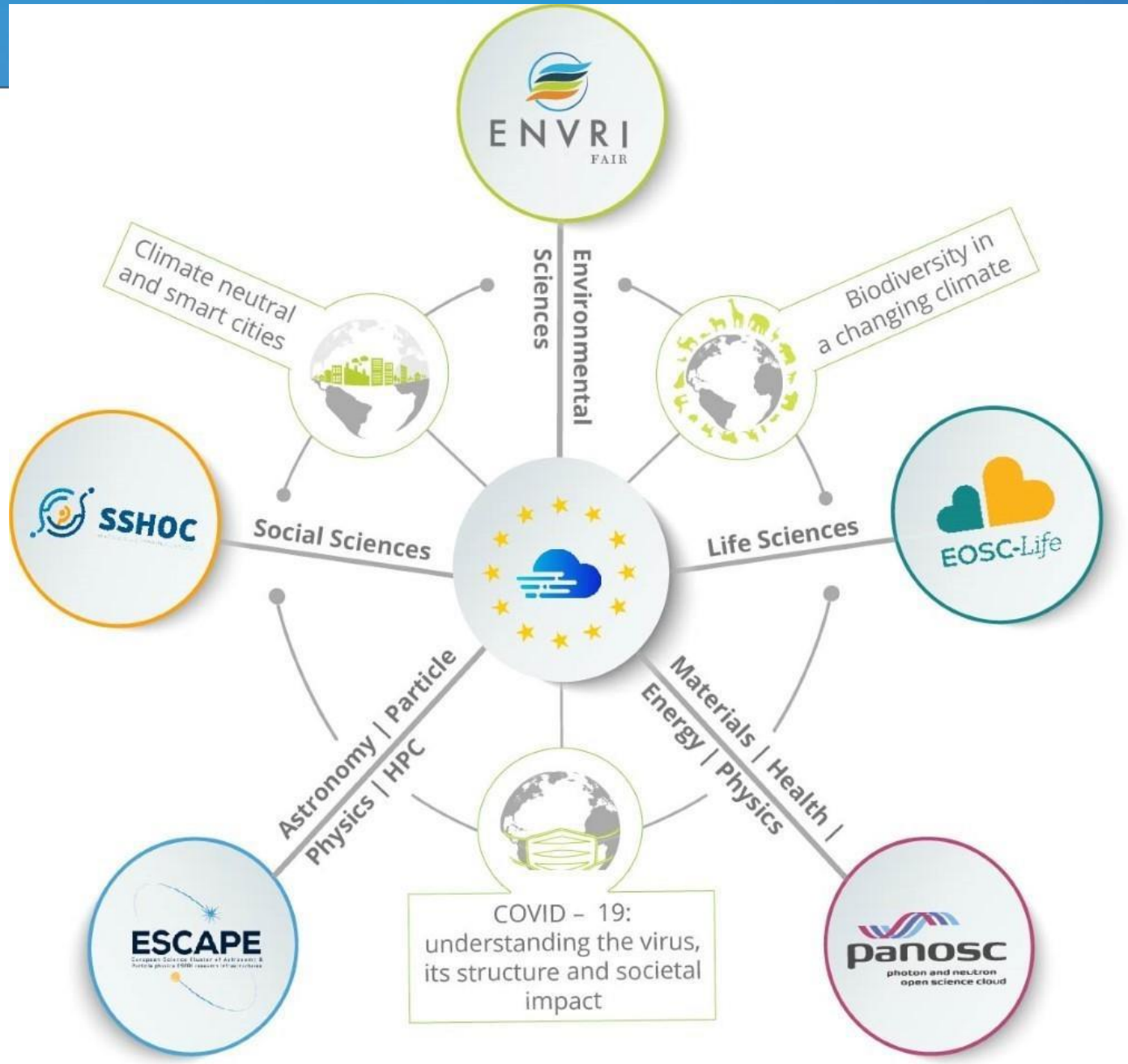
INTEROPERABLE

Metadata use an accessible and standard language

REUSABLE

Data is well-described and provides clear usage of licences

Source: Orvium

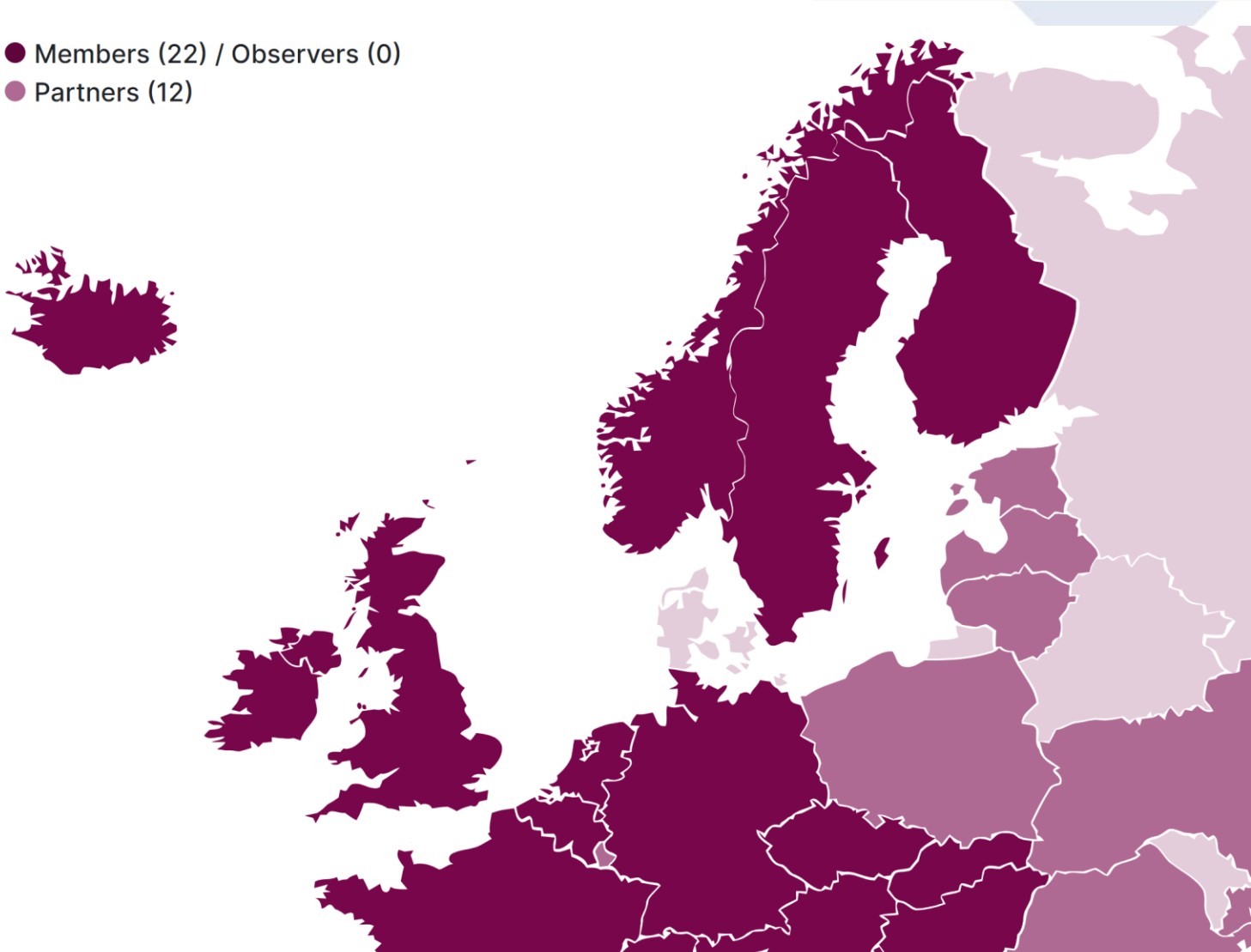


The 28 ERICs organized into science clusters:

Data Infrastructures

CESSDA -Consortium of Eu

CESSDA's mission is to provide a comprehensive, sustainable research infrastructure that enables the research community to conduct high quality research in the social sciences and to facilitate teaching and learning in the social sciences



Data Infrastructures

Important CESSDA-ERIC services

- Access to CESSDA **Data Catalogue**
- Develops and coordinates **standards, protocols, policies and guidelines** on data, associated digital objects and metadata, e.g.:
  - CESSDA Persistent identifier policy
  - The Data Documentation Initiative (DDI)
- **Training** on research data management.
- European **Question Bank** for surveys
- **Vocabulary** service
- Etc.

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Lithuanian Data Archive for Social Sciences and Humanities (LiDA)

LiDA

- Established in 2006-2008
- **LiDA is a digital infrastructure** for the acquisition, long-term preservation, and dissemination of empirical data and research resources in the SSH.
- **Mission**: to ensure access to FAIR-compliant Lithuanian and international empirical SSH data resources, strengthening open science, facilitating data uptake for informed decision making, and building a committed community of open data users in Lithuania.

Key LiDA services

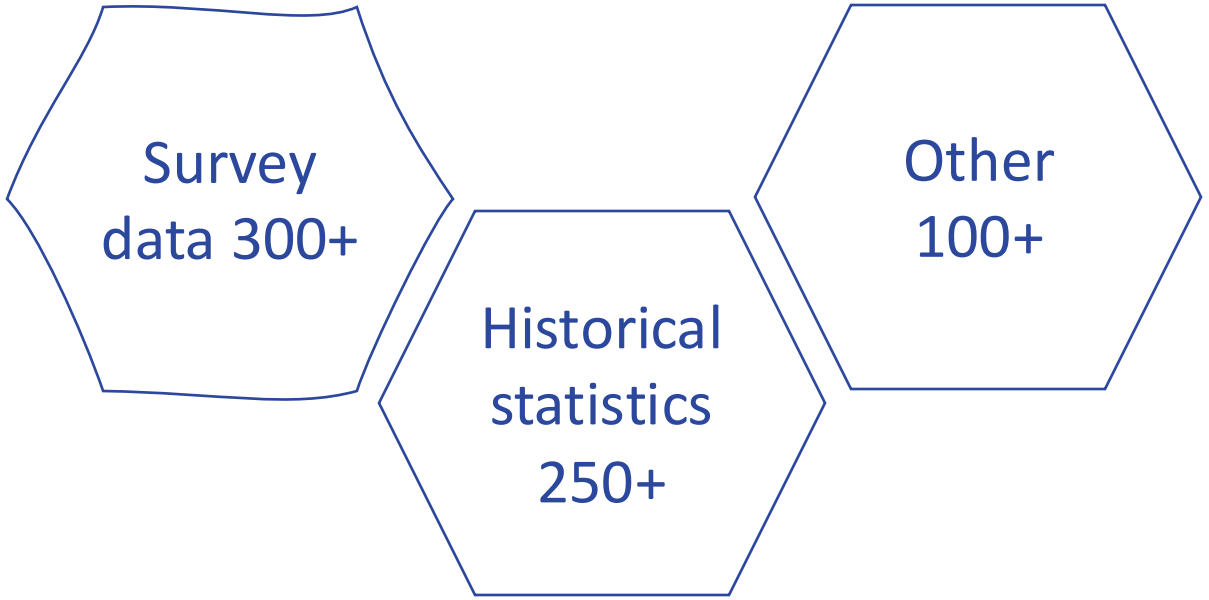
ISSP
International Social Survey Programme: Lithuanian Data = Tarptautinė socialinio tyrimo programa: Lietuvos duomenys

European Social Survey
European Social Survey: Lithuanian Data = Europos socialinis tyrimas: Lietuvos duomenys

EUROBAROMETER
Standard Eurobarometer: Lithuanian Data = Standartinis Eurobarometras: Lietuvos duomenys

Surveys of Cultural Life = Kultūrinio gyvenimo tyrimai

1. acquiring, organizing, standardizing and documenting empirical SSH research datasets in accordance with FAIR principles;
2. long-term preservation of research datasets



Key LiDA services

3. ensuring open access and promoting reuse of research data;

35+ research projects serviced
40+ articles cite LiDA
10+ dissertations cite LiDA
140+ MA thesis cite LiDA
50+ BA thesis cite LiDA

25 000 + downloads of files from LiDA since 2021

Key LiDA services

4. developing researchers' and public sector specialists' capacity to curate, manage data, find and use data for secondary analysis;

In 2018-2024:

30+ nonformal education programmes
95+ methods training sessions
1000+ certificates issued
35+ service agr. with external costumers

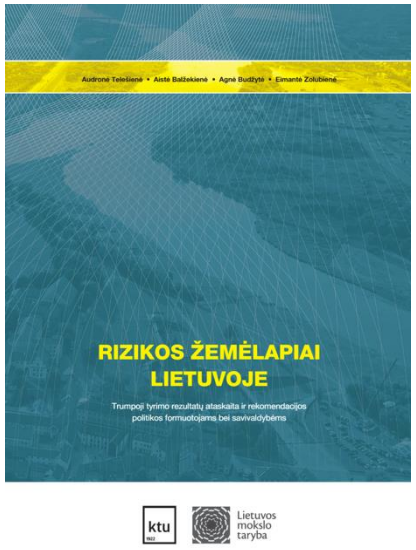
Added value and expected impact on science

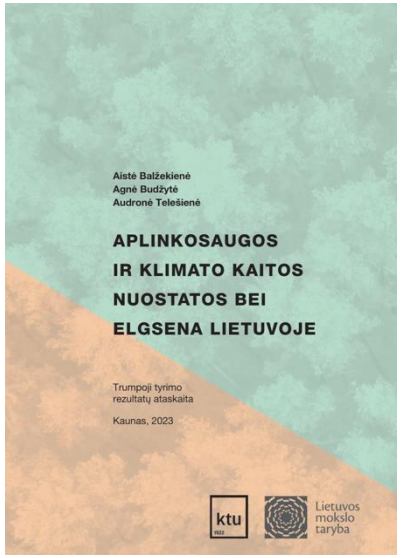
1. empowers → historical or international comparative studies
2. facilitates → interdisciplinary research
3. access → high-quality data
4. increases → research efficiency
5. enables → international visibility and competitiveness in ERA
6. builds → community of data users
7. develops → methodological competencies
8. transfers → new technologies, legal and documentation innovations

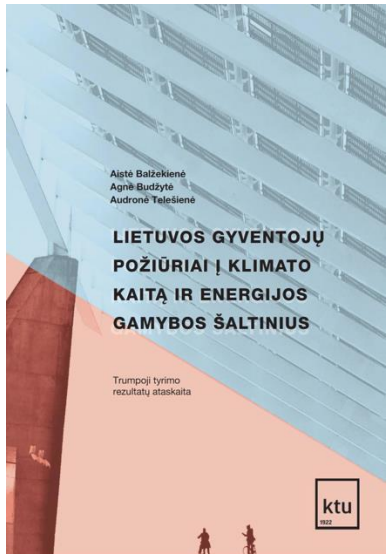
Added value and expected impact on economy, policy, culture and society

1. supports → evidence-based policy making
2. empowers → finding solutions to contemporary challenges
3. provides → framework for data-driven innovations

Economic value of LiDA's resources: over €3 million







Questions for discussion (2)

1. Elaborate on the idea that the availability of open data through archives **helps the careers of young researchers**.
2. What incentives (e.g., recognition, funding opportunities) could encourage more senior researchers **to use data** from archives like LiDA?
3. What tools or resources could help researchers understand and apply **proper data citation practices**?

Thank you!

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