The potential of open data in Poland

Katarzyna Patyrak

April 2024

Trends in Research Data

Open Data Sharing is an emerging priority for Funders, Publishers and Governments. Why?

Open Data Sharing is seen as a fundamental component of responsible and effective research practices. It aims to:

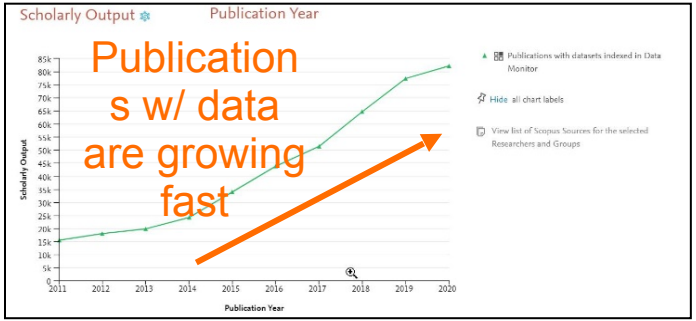
- ➢ Promote Transparency and Reproducibility
- ➢ Accelerate Scientific Discovery
- ➢ Foster Innovation and Address Global Challenges

Open Data Sharing is an emerging priority for Funders, Publishers and Governments

NIH National Institutes of Health

European Commission

"No opting out of RDM"



France

US

Malaysia

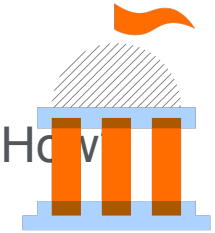
"If you regard research data as a reservoir to respond to crises, these data are the basis to create the knowledge that we need in future. Without data, you couldn't define convincing responses to crises such as Coronavirus the climate crisis and the loss of biodiversity."

– Johannes Fournier, DFG

DFG Deutsche Forschungsgemeinschaft

ELSEVIER

Tracking research data helps institutions advance Open Data Sharing. How

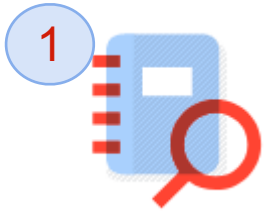


- **Discoverability:** Facilitates easy search and access to relevant datasets
- **Attribution:** Ensures correct acknowledgement of data creators and contributors
- **Quality Assurance:** Enables assessment of data reliability and relevance
- **Interoperability:** Supports seamless integration of diverse datasets into research projects
- **Impact Assessment:** Provides insights into the usage and societal impact of open data
- **Compliance and Licensing:** Ensure Adherence to legal and ethical standards in data sharing
- **Long Term Preservation:** Facilitates documentation and archiving for sustained accessibility

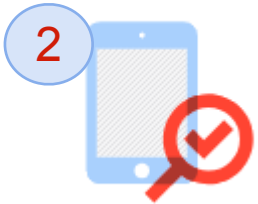
Challenges in Tracking Research Data

What Do Institutions want to achieve?

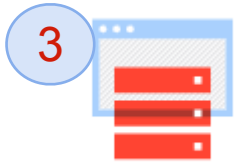
Institutions want to advance their Open Data journey, by implementing:



Efficient research data tracking



Compliance view on funding requirements

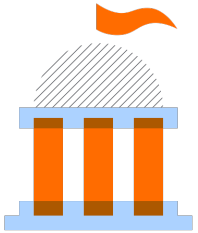


Enrichment of reporting with research data

Promoting discoverability of research data

….but it all starts with the right resources to find and track their research data

Challenge: Where is the institutions' research data?



Funders recommend domain-specific repositories as good practice

SCIENCE EUROPE

"It is always recommended to refer to broadly recognized discipline-specific or certified repositories in the first place."

But with up to 90% of research data deposited in these external repositories = challenge for institutions*

Institutions need efficient solutions to easily find and track their research data so they can:

- ✓ Maintain an overview of where data is deposited
- ✓ Support institutional policies
- ✓ Safeguard compliance with funder mandates

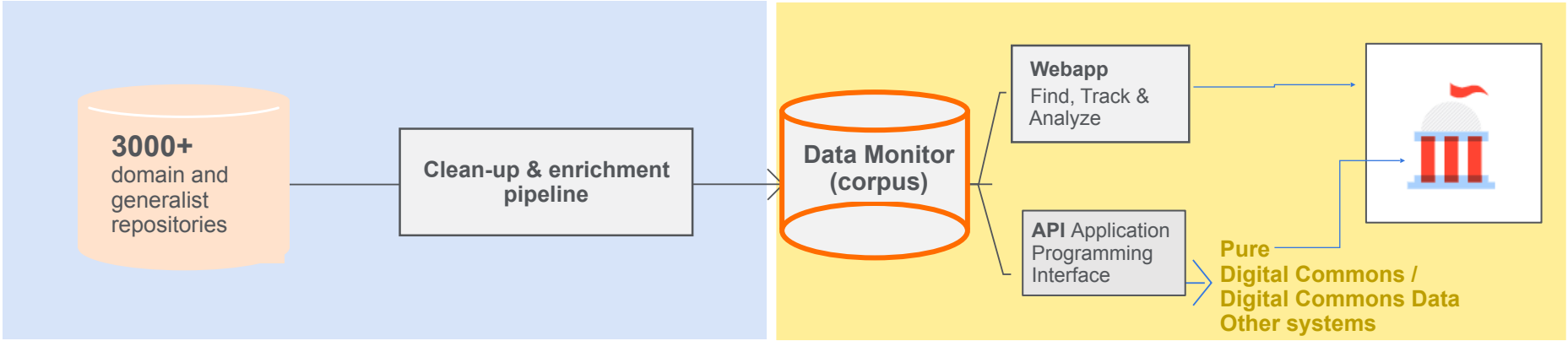
ELSEVIER

***Sources:**

1: E. Zudilova-Seinstra; A. Zigoni; W. Haak (2020), "Analysis of research data for 11 Institutions – Data Monitor", doi: 10.17632/k5p45z33kb.3

Research Data in Poland

Data Monitor helps institutions **advance Open Data** by tracking research data. The Process



How we track the Research Data

- **Harvest** metadata from 3000+ repositories including Figshare, DataCite
- **Normalize** metadata (OpenAIRE schema)
- **Clean-up** i.e. remove duplicates, versioning, non-research data e.g. articles
- **Enrich** metadata with publications/ author/ institutional linking

Data Monitor Corpus Access:

- via Webapp
- *via* Application Programming Interface (API)
  - Allows direct integration with Pure and other Current Research Information Systems (CRIS)

Research Data Published by Institutions
Indexed by Data Monitor

50.000+

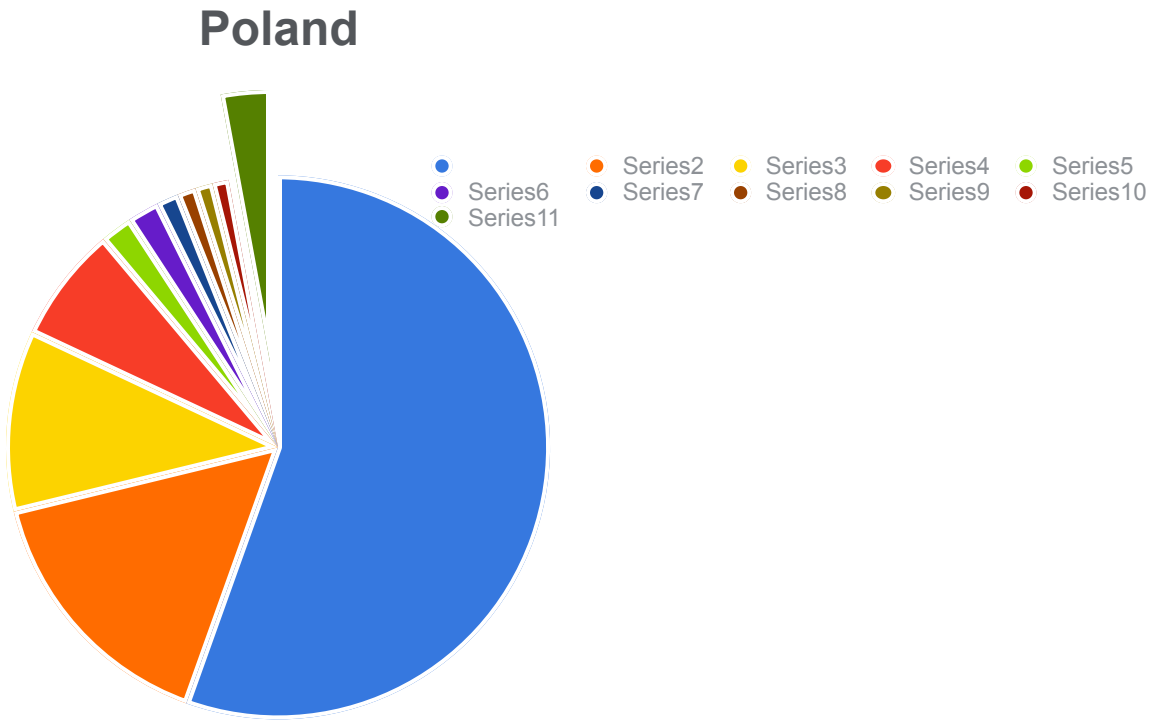
Poland

183.000+

EU27

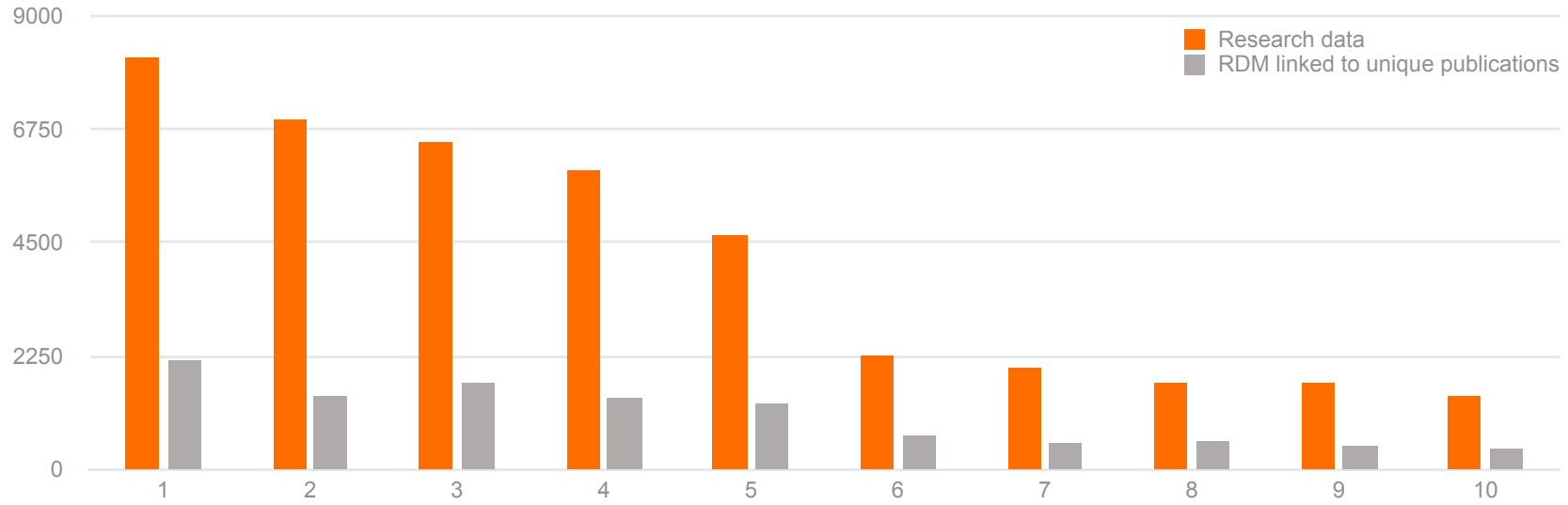
ELSEVIER

Research Data
Top 10 Repositories



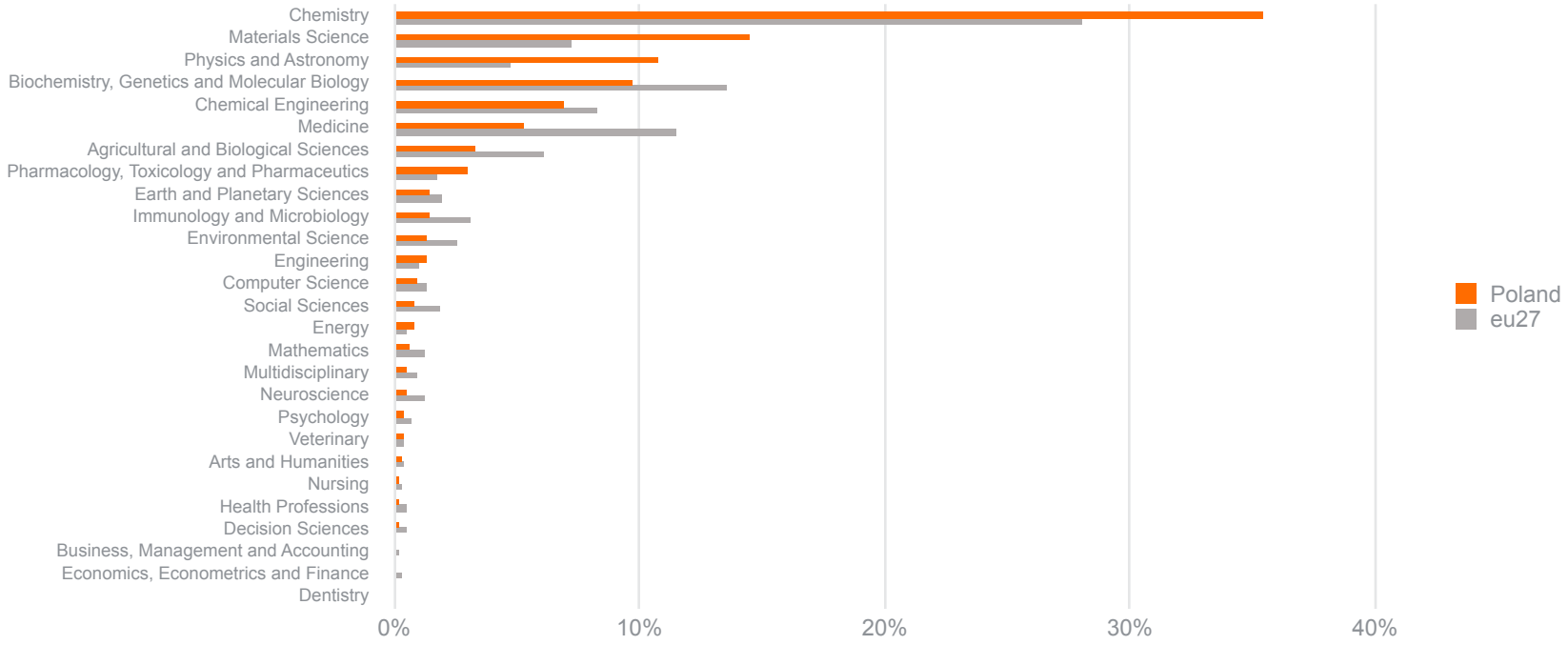
ELSEVIER

Research Data
Top 10 Institutions



ELSEVIER

Research Data
ASJC27 Subject Breakdown

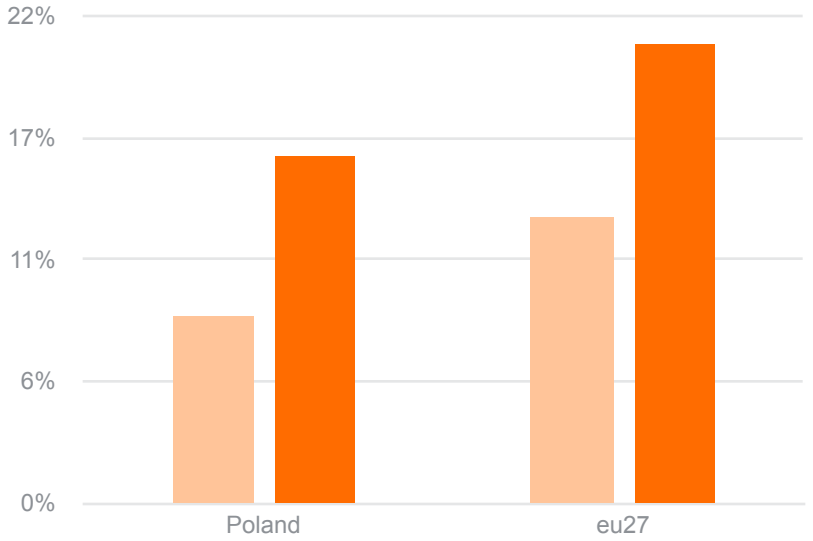


***focuses on the subset of research data linked to publications**

ELSEVIER

Academic impact of publications linked to data

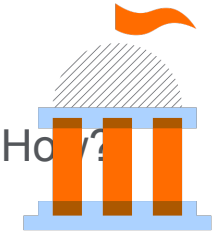
FWCI



% of records in top 10 citation percentile

ELSEVIER

Data Monitor helps institutions **advance Open Data** by tracking research data. How?



Data Monitor helps to solve for the following:

- tracking research data efficiently
- helping meet funders' compliance needs
- enriching reports
- promoting discoverability of research data

Data Monitor for enriching reports

With access to thousands of research datasets from diverse repositories enables the ability to create report and give overview on how researchers publish research data in your organization

Ease of data export

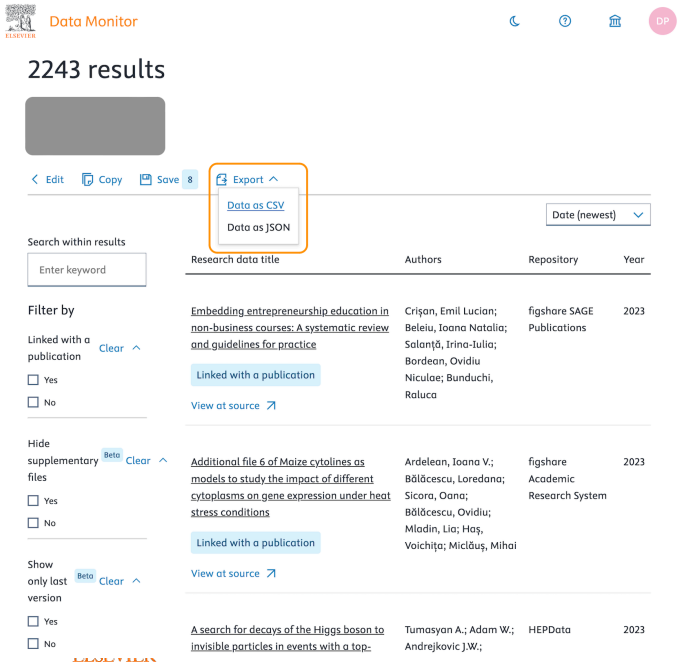
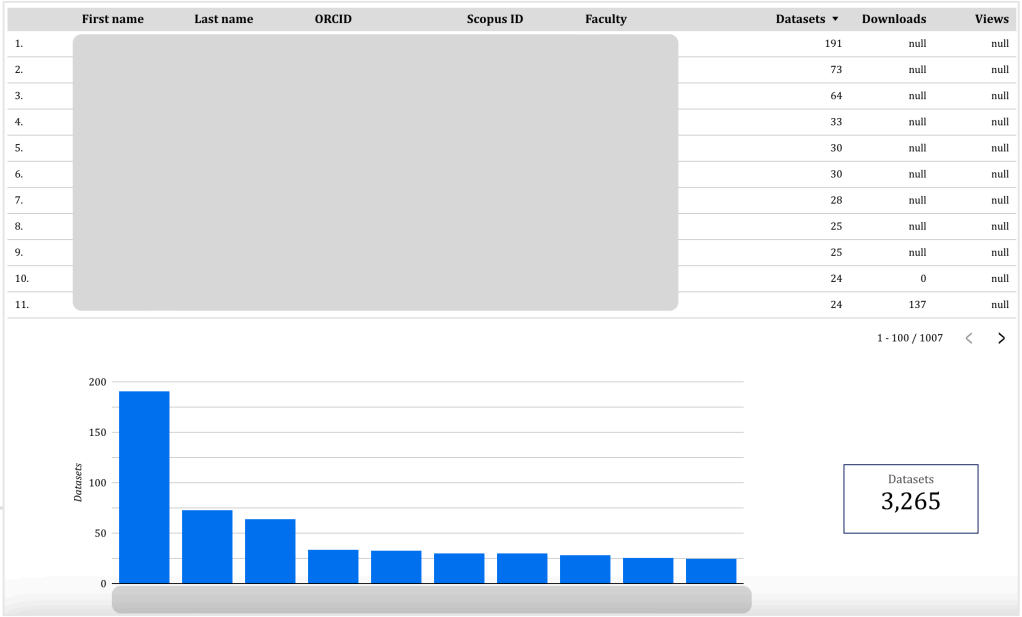


Chart creation over your analytics tool of choice



Thank you!

April, 2024

Katarzyna Patyrak

k.patyrak@elsevier.com