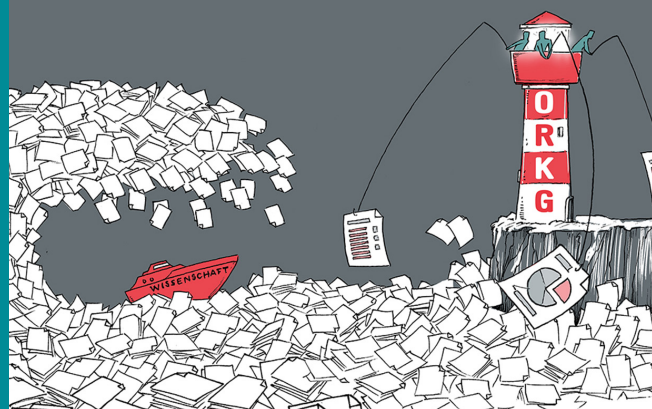


# Open Research Knowledge Graph



Funding source  
**National, regional, institutional**

In-kind value  
**€1M–€10M**

Timeframe  
**2018–ongoing**

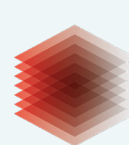
Target group  
**Researchers**

Scale  
**International**

Year of reporting  
**2023**

## Case study

The **Open Research Knowledge Graph (ORKG)** is a platform for creating, curating, publishing, and reusing FAIR scientific knowledge, thereby shifting scholarly communication from documents to data. ORKG supports the FAIRification of scientific knowledge by integrating AI technologies, in particular Natural Language Processing, Knowledge Graphs and Crowdsourcing. It offers services like research comparisons and thematic reviews to improve productivity and data use by researchers and publishers.



**TIB** LEIBNIZ INFORMATION CENTRE FOR SCIENCE AND TECHNOLOGY UNIVERSITY LIBRARY



Leibniz Universität Hannover



### Collaborators:

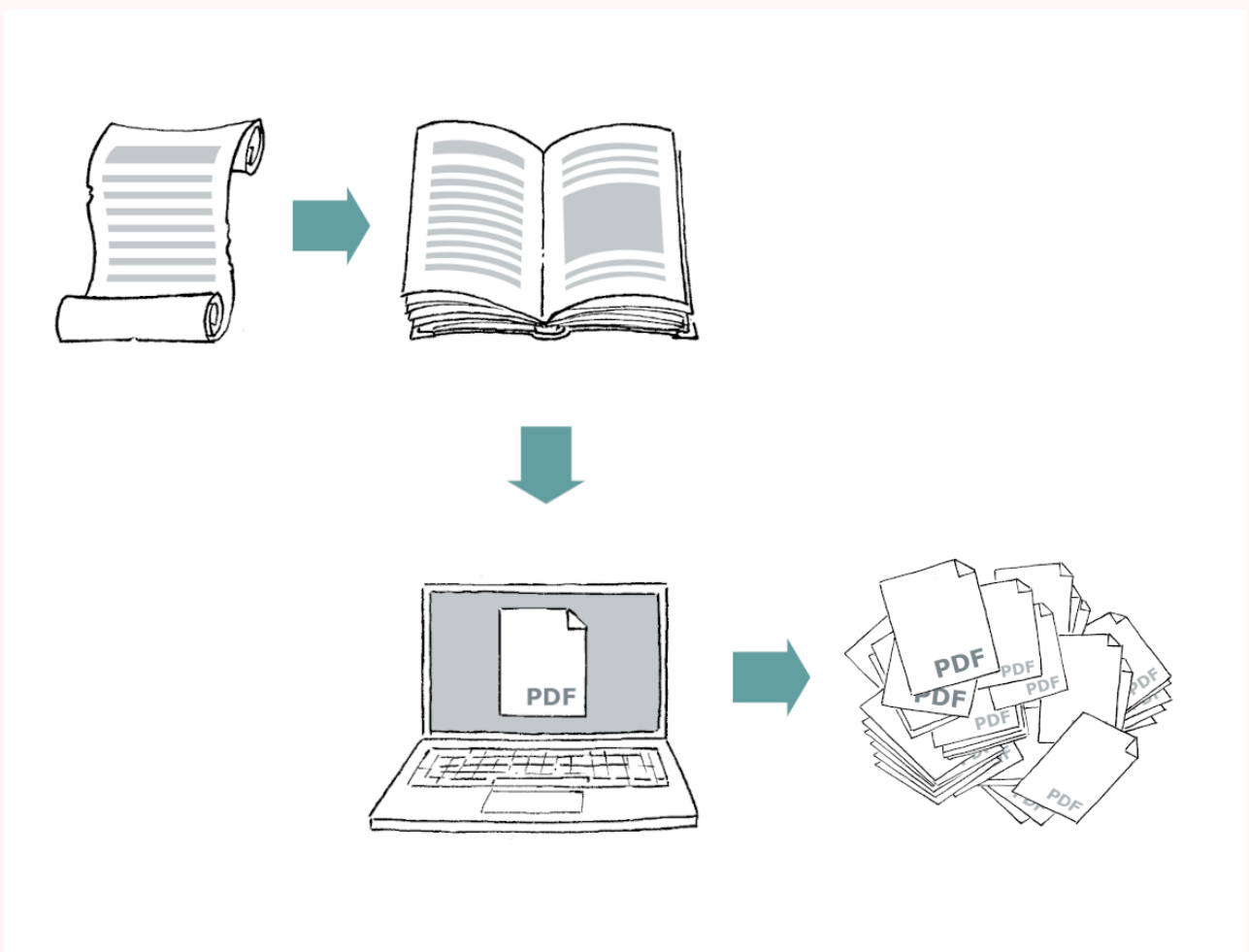
- Leibniz University Hannover
- L3S Research Center

## Added value

- Facilitating **machine-assisted reuse of scientific knowledge** as FAIR research data by supporting the production and management of structured scientific knowledge.
- Enabling **advanced scientific knowledge search and discovery** through a digital library with innovative user interfaces and machine interfaces (APIs).
- Streamlining **efficient scientific knowledge comparison and synthesis** through novel user-facing services for FAIR scientific knowledge processing.

## Problem addressed

Millions of scientific articles are published every year, making it difficult to efficiently find and process scientific knowledge even in narrow areas of research. The problem is particularly pressing in synthesis research. A key limitation of narrative text articles is that their contents are not machine-readable. The **Open Research Knowledge Graph** tackles inefficiencies in document-based scholarly communication by transitioning to a knowledge-based system.






From paper to PDF: Digitisation of scientific articles over the past centuries without digitalising scientific knowledge. TIB – CC BY



### SRIA General Objective

G02: Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results





### Research areas

-  Social Sciences
-  Humanities

-  Natural Sciences
-  Agricultural Sciences

-  Medical and Health Sciences
-  Engineering and Technology

### Type of result

-  Infrastructure
-  Service
-  Software
-  Training