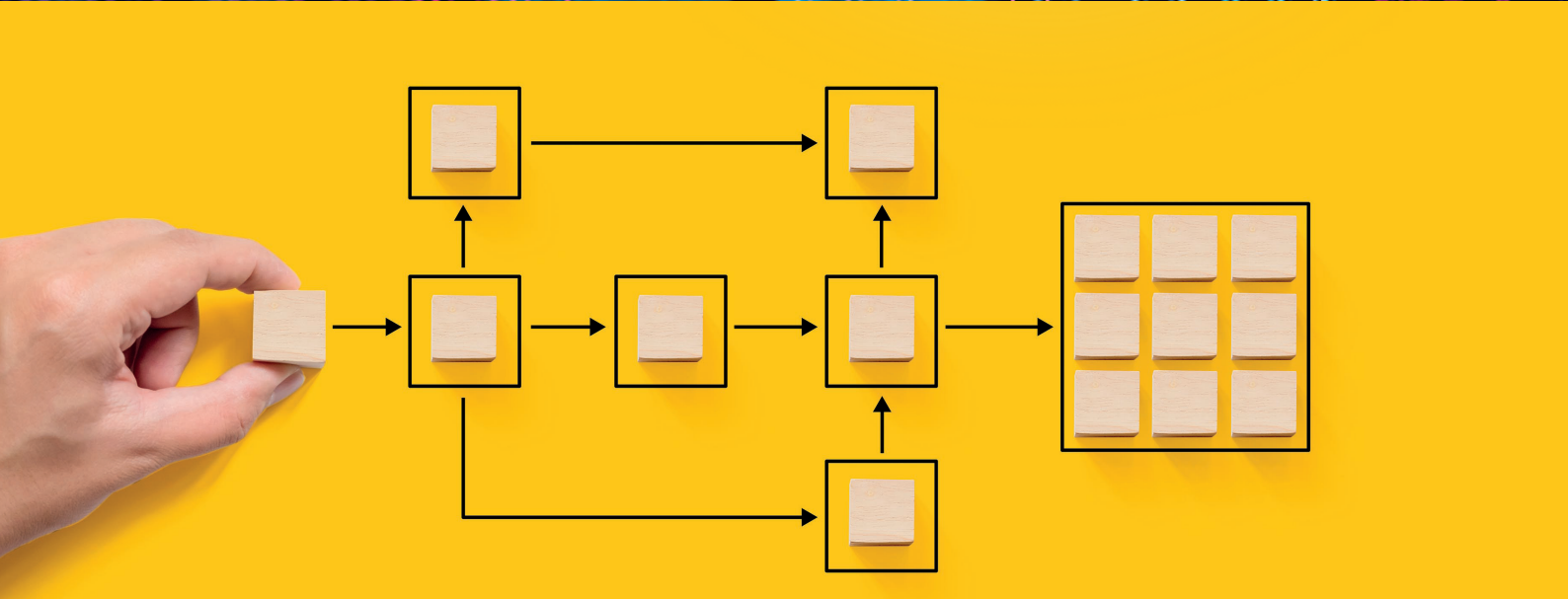
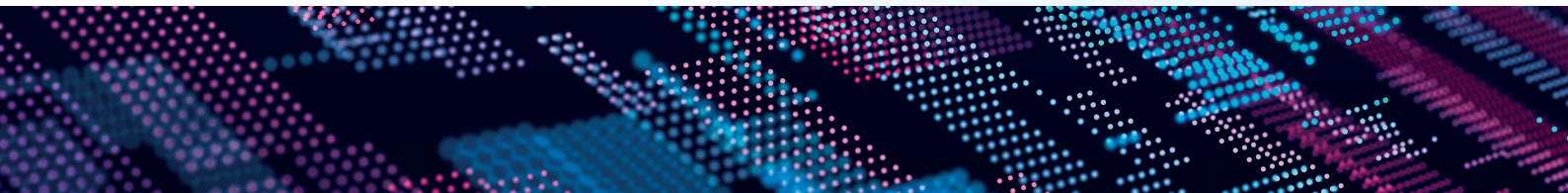




Aligning Dialnet scientific portal with the FAIR principles



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Support action

The FAIR-IMPACT Support Programme for National Initiatives was designed for organisations with a national scope, including those mandated by the EOSC, with the aim of supporting participants to improve their FAIR implementation activities. Between January and September 2024, participants engaged with experts through a series of virtual workshops covering a wide range of topics and providing participants with a comprehensive understanding of what can be achieved at national level for FAIR. In addition, participants were supported by the FAIR-IMPACT team to develop their FAIR implementation plans, benefiting from expert insight and tailored guidance.

Keywords

FAIR-IMPACT, National level support program, FAIR principles

Summary

Through the Spanish Foundation for Science and Technology, the University of La Rioja obtained a grant to develop its own data Repository associated with their institutional CRIS. Dialnet attempts to provide a solution for that purpose and, in addition, to make that extensible to other institutions. Through participation in this support program, Dialnet identified ways in which the data repository could align with the FAIR principles, and ways in which to engage with stakeholders.



■ Introduction:

Fundación Dialnet is a non-profit organisation at the University of La Rioja. Dialnet manages the scientific portal and constitutes the largest database of scientific articles in Spanish.

Through the Spanish Foundation for Science and Technology, the University of La Rioja obtained a grant to develop its own data Repository associated with their institutional CRIS. Dialnet attempts to provide a solution for that purpose and, in addition, to make that extensible to other institutions. Through participation in the FAIR-IMPACT support program, Dialnet identified ways in which the data repository can align to the FAIR principles, and ways in which to engage with stakeholders.

■ Approach taken

Dialnet provides infrastructure for research workflows, secures its use, and facilitates processes to become more FAIR.

Dialnet approached their objectives by analysing the FAIR principles, and examining how they would apply to their collective repository.

In terms of making data findable:

- ☐ A unique and persistent identifier will be assigned to the (meta)data record
- ☐ Data sets will be described with rich, quality metadata
- ☐ The (meta)data will be recorded or indexed in search resources such as national and international aggregators
- ☐ The PID for the data being described will be specified in the metadata record
- ☐ The metadata of each record will be sent to the servers of DOI provider (CrossRef and DataCite will be considered), where they will be indexed

In terms of making data accessible

- ☐ The metadata of individual records and data sets may be collected using the OAI-PMH protocol, by their identifier and a public REST API (if there is demand)
- ☐ The protocol will allow an authentication and authorization procedure (if necessary)
- ☐ The metadata will be publicly accessible and will have a public domain license
- ☐ The metadata will be accessible, even if the data is no longer available; will be kept for the life of the repository

In terms of making data interoperable

- ☐ A formal, accessible and widely applicable (meta)data representation language will be used: JSON Schema, as the internal representation of metadata
- ☐ The (meta)data will be exportable to other formats such as, for example, MARCXML, OAI_DC, OAI-OpenAIRE, JSON, BibTeeX, RDF, DataCite, etc
- ☐ Open vocabularies that follow FAIR principles will be used to describe (meta)data
- ☐ The (meta)data will include references and links to other metadata, so each external piece of metadata will have a resolvable URL

In terms of making data reusable

- ☐ The (meta)data will be richly described with a plurality of attributes (DataCite)
- ☐ The (meta)data will be published with an accessible and open data use license



- (Meta)data will be used that details the provenance (creation, attribution and version registration) on the resource, associated with its life cycle

- The (meta)data will comply with widely recognised standards in the corresponding fields of knowledge (DataCite)

In addition to aligning the repository to the FAIR principles, Dialnet also created a landscape assessment that has helped to visualise the community and stakeholders. Among these stakeholders, the interuniversity collaborative network has proved very helpful, and play an important role in engaging users.

In addition Dialnet will focus on:

- Boosting an institutional open access policy

- Committing to one of the open access movement's founding declarations: Budapest, Berlin, or Bethesda.

- Secure institutional commitment to permanent content availability

■ ■ Challenges encountered and addressed

Dialnet is an infrastructure provider, tasked with providing an integrated solution. Establishing a collective solution is complex, as it requires continuous stakeholder engagement and communication. Dialnet is considered a reliable institution, and is leading the way in the collaboration network, who in turn can help to engage others.

■ ■ Impact

The implementation of a FAIR data repository will create a lot of research data that is FAIR. Working groups have been created in the interuniversity collaboration network. These working groups will help to spread knowledge about the repository, and create a common ground for stakeholders. The ultimate goal is that institutions will improve their workflows by using the collective data repository.

In the future Dialnet also plans to:

- Implement training and informational activities on using the repository

- Organise courses, events, and open access weeks to promote open access

- Create guides and materials for author support and advice; utilise social media for self-archiving promotion

- Develop a plan to disseminate open science initiatives

■ ■ Key message

- Solutions can take a long time. Perfection and refinement of technical solutions all come in good time. In order to engage researchers with the technical solutions, it is important to make them visible as soon as possible

- Be advised by others knowledgeable, and then create and design

- Participate in as many forums as possible, nationally and internationally. Keep ears and eyes open to what is happening in the world

- Unified solutions can be difficult to implement. Involve all stakeholders and engage communities.





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