# Supporting the adoption of FAIR in Denmark

1 PROBLEM

The FAIR principles have gained significant traction amongst a wide range of stakeholders in the drive to aid data discovery, sharing and reuse. There are still however many misconceptions about implementation and low adoption within research communities. DeiC set out to change this position with a programme of awareness-raising, training and support for Danish researchers. The "FAIR across disciplines" project applied FAIR at a research community level, focusing on the standards, tools and approaches adopted in each.

2 APPROACH

A range of activities were undertaken on the FAIR across disciplines project, including writing discipline specific FAIRification roadmaps, analysing tools that can assist in making data FAIR, creating stories and postcards to dispel common misconceptions, running events and developing an online training course. Work was conducted in collaboration with institutions via the Danish Data Management Forum, which allowed DeiC to leverage on a greater set of skills and resources.
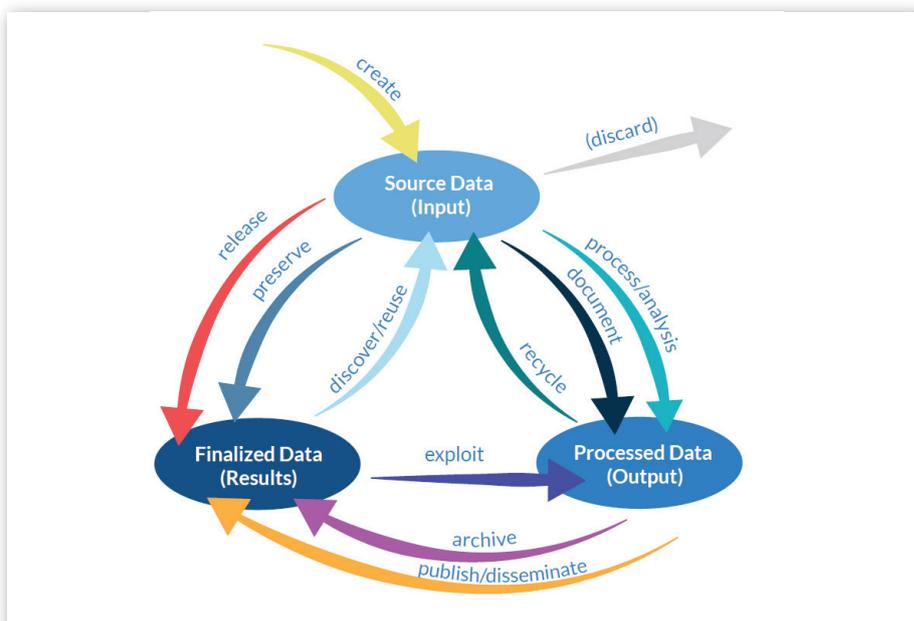
On the left:
The research data life cycle

In the header:
Paulina Halina Sieminsk, designer. Cover illustration. Karsten Kryger Hansen, Mareike Buss, & Lea Sztuk Haahr. (2018). A FAIRy tale (p. 40). Zenodo. https://doi.org/10.5281/zenodo.2248200. Front cover.

Together with GO FAIR, DeiC developed a concept for short intensive workshops under the headline "Metadata for Machines." A call for interest went out following the first workshop, resulting in two more being planned and hopefully more to come. During the workshop participants learn – hands-on – how to make their data FAIR by adding standard metadata that has potential for machine actionable interoperability.

Inspired by the collaborative spirit of RDA, DeiC has planned a series of webinars on the topic "FAIR4ResearchSoftware", together with RDA specialists and Nordic colleagues. The first webinar attracted more than 100 participants of various nationalities, with most participants from Denmark and Sweden. More FAIR4RS webinars are in the making.

Most importantly, the work initiated through this programme has led to the formation of a national FAIR data strategy, as various stakeholders have come together and reached consensus on the steps needed for implementation.

③ **OUTPUTS / OUTCOMES**

Key outputs include:

National strategy for FAIR research data management	A plan for how to implement FAIR principles across Danish institutions
A FAIRy tale	A poetic story that explains the FAIR principles one by one in an entertaining, factual and educational
FAIR myths	A series of postcards debunking common myths with concerns and responses presented on alternate sides
Tools analysis	Explanation of various data analysis, storage and sharing tools, noting which elements of FAIR each supports
Case studies	Reports of implementing FAIR in different disciplines, noting challenges and key learning points
How to FAIR	A two-hour online training course with videos and a quiz to test basic understanding of how to implement FAIR
Metadata 4 Machines	Workshops for research teams to define standardised machine-actionable metadata
FAIR 4 Research Software	Webinars supporting knowledge sharing, networks and collaboration in the Nordics and beyond

The FAIRification roadmaps have sparked a vivid debate within research communities as to why, how and by whom FAIRification should be pushed, and financed. Furthermore, tool development and data stewardship has gained increased attention.

Let's talk about FAIR data...

"FAIR is a concept that supports the principles for good scientific conduct in research: honesty, transparency and accountability"
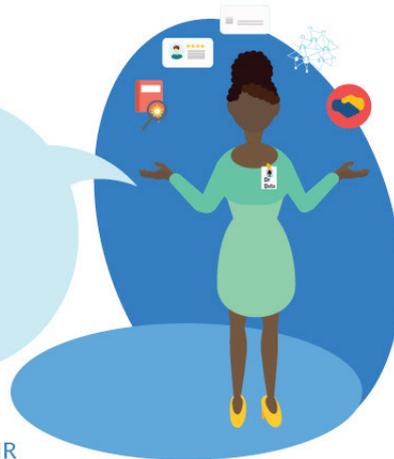
www.vidensportal.deic.dk/FAIR

FAIR data are: Findable, Accessible, Interoperable and Reusable.
Making your data FAIR means maximizing the project's output, increasing your impact and enhancing your recognition as a researcher.

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ADVICE
FAIR is relevant beyond Denmark and many NRENs may wish to implement support programmes that help research communities to adopt the principles. The outputs delivered by DeiC are openly licensed so they can be reused and remodelled to suit other national contexts. The FAIRy tale and FAIR myth postcards provide useful content for running events and generating discussion. The case studies can also help you engage with research communities and understand their disciplinary practices. The M4M (Metadata for Machines) concept has already been adopted by GO FAIR more widely.

It is recommended to interact with international bodies like RDA and GO FAIR in order to collaboratively develop concepts that fit your national context and draw on international expertise in the field.

More on the programme and outputs can be found at: bit.ly/3CDJZq7

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DeiC
DANISH eINFRASTRUCTURE COOPERATION

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