A FAIR Digital Object Lab Software Stack

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Applying the FAIR DO concept

Let’s apply the concept!
Applying the FAIR DO concept is hard

Let’s …

Processes

Infrastructure
What exactly to apply? How to apply it?

Define generic, technical FAIR DO workflows

Let’s …

Offer integrable building blocks

Infrastructure
Example: “Create a FAIR DO” workflow (simplified)

1. Collect FAIR DO information
2. Validate information
3. Create PID with information record
4. Store PID in logbook
5. Distribute new PID to other services
6. Make PID and information record searchable

Software Stack

Typed PID Maker

Indexing-service

RabbitMQ

elastic
Applying FAIR DOs in practice – our approach

**generic, technical**
FAIR DO workflows

Create FAIR DOs

Maintain FAIR DOs

(Re-) use FAIR DOs

Processes

integrable building blocks

Infrastructure

Cherry-picking encouraged!
Graphical user interfaces convey benefits

- We expect user interfaces to convey use cases clearly
- And to inspire for further possibilities

Now I understand the concept!

This could be combined with…

Couldn’t it also be used to … ?

We could automate this using the available interfaces!
Conclusion – the FAIR DO Lab

- Implements generic workflows
- Integrable building blocks
- More graphical user interfaces planned
- First version available on GitHub

Available via GitHub
https://github.com/kit-data-manager/FAIR-DO-Lab