HELIPORT

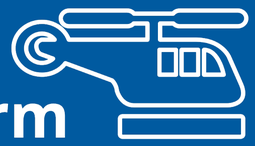
JÜLICH FORSCHUNGSZENTRUM

HELMHOLTZ Helmholtz-Institut Jena

HZDR HELMHOLTZ ZENTRUM DRESDEN ROSSENDORF

HELIPORT

HELmholtz Sc**I**entific
Project W**OR**kflow Pla**T**form



HMC Welcome Meeting

April 2021

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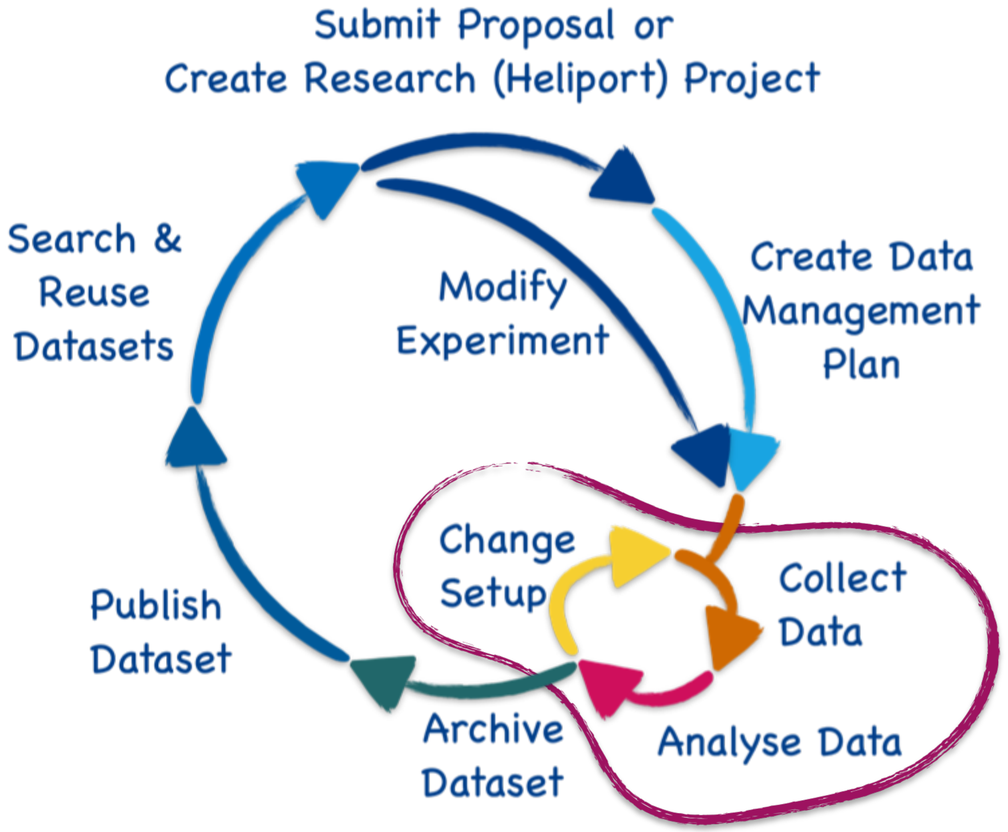
The Challenge: An End-to-End Project Lifecycle

The Problem

- Every (research) project uses various software services and systems.
- Making a project fully FAIR and comprehensible the documentation of these systems is desirable.

Our Idea

- Webservice guiding the scientist through the whole project lifecycle.
- Documentation of every step and linking of all involved system.
- Export an overall project lifecycle (metadata scheme) to create a more FAIR and comprehensible project description.



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Our Project:

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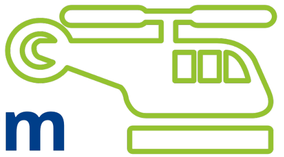

Key Aspects:

- Easy integration of interfaces to existing infrastructure (e.g. repositories, proposal systems, cluster, ...).
- Development of a metadata schema to document and publish a complete research project lifecycle.
- Integration of computational workflows based on the Common Workflow Language (CWL) using UNICORE.

HMC Support and Integration

Support

- Landing page for our project with a link to a demonstrator, source code and documentation.
- Providing a central Helmholtz repository or archive with project lifecycles from various areas (generated using HELIPORT and our future project metadata scheme).

Linkage and integration

- Integration of other HMC projects (if possible) in the stages/nodes of our project lifecycle.
- Support other HMC projects with our project lifecycle metadata scheme.

The HELIPORT Project

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