

# Research Hardware in scholarly commons

RDA Plenary 2022



**“Where possible and reasonable, this includes making the research data, materials and information on which the results are based, as well as the methods and software used, available and fully explaining the work processes. Software programmed by researchers themselves is made publicly available along with the source code. ”**

*– Deutsche Forschungsgemeinschaft. (2022). Guidelines for Safeguarding Good Research Practice. Code of Conduct. <https://doi.org/10.5281/zenodo.6472827>*

Open science scientometrics, when they exist, do not have hardware.

## Why his hardware missing ?

**“Where possible and reasonable, this includes making the research data, materials and information on which the results are based, as well as the methods and software used, available and fully explaining the work processes. Software programmed by researchers themselves is made publicly available along with the source code. ”**

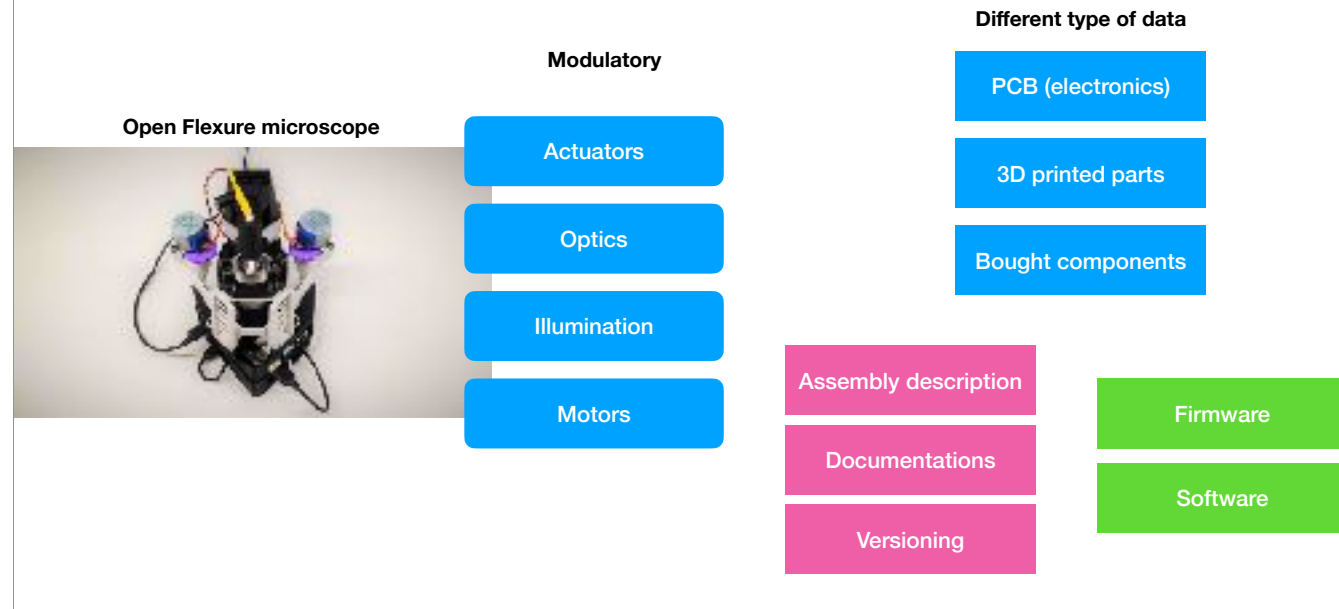
*– Deutsche Forschungsgemeinschaft. (2022). Guidelines for Safeguarding Good Research Practice. Code of Conduct. <https://doi.org/10.5281/zenodo.6472827>*

Little Awareness

Hardware is complex

What do I mean with hardware is complex?

# Hardware complexity



# Hardware complexity

Datasets

Documentation

Software

- Different type of data:
  - Different licenses
  - Data organisation
  - Metadata ?

# FAIR principles for Research Hardware

- Embrace this complexity
- Guide different stakeholder on how to recognise Hardware publication
- Raise awareness

Little Awareness

Hardware is complex

How to raise awareness and work with this complexity? Define FAIR for RH !

- Definition of research hardware
- Analysis of current practices and gaps in research hardware lifecycle:
- Documentation
- Dissemination channels
- Maintainability
- Interoperability of hardware metadata schemas and academic metadata
- Definition of FAIR principles for research hardware
- Identification of practical means of achieving FAIR research hardware
- Contributor recognition systems

- Definition of research hardware
- Analysis of current practices and gaps in research hardware lifecycle:
- Documentation
- Dissemination channels
- Maintainability
- Interoperability of hardware metadata schemas and academic metadata
- Definition of FAIR principles for research hardware
- Identification of practical means of achieving FAIR research hardware
- Contributor recognition systems

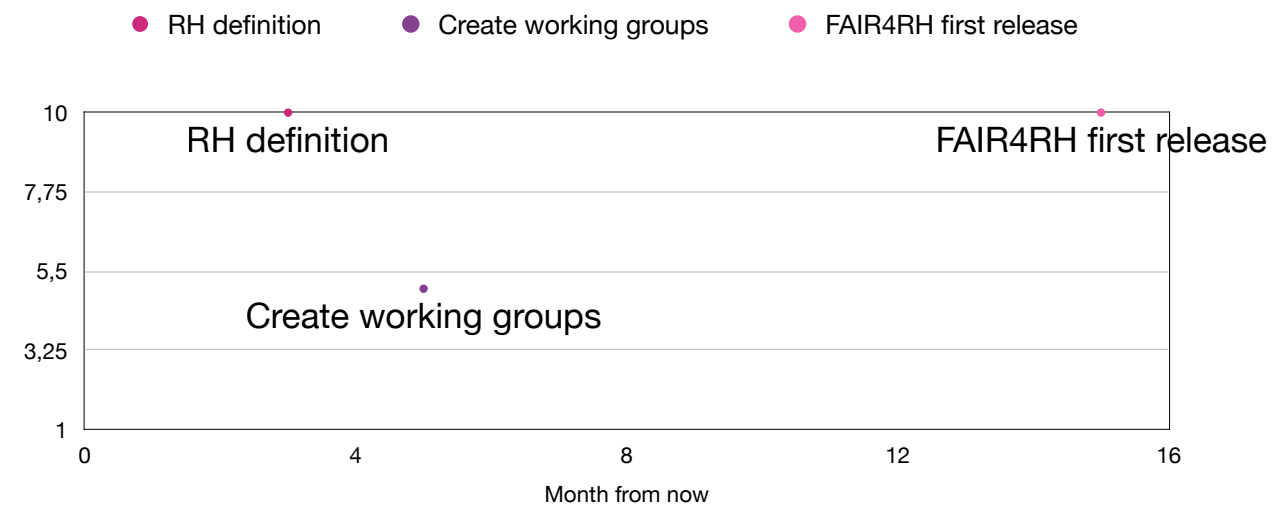


- Definition of research hardware
- Analysis of current practices and gaps in research hardware lifecycle:
- Documentation
- Dissemination channels
- Maintainability
- Interoperability of hardware metadata schemas and academic metadata
- Definition of FAIR principles for research hardware
- Identification of practical means of achieving FAIR research hardware
- Contributor recognition systems

**Importantly, we will put lots of energy into making our work as inclusive as possible and available to everyone. Our outcomes will also take Global South needs, achievements, and practices into account.**

**Therefore, involving communities from the Global South is one of the primary objectives of this group.**

# Loose timeline



# Join us !!

- Monthly meeting, minutes on etherpad document
- Work asynchronously in google doc
- 24 members (8 active, 2022-05-10)