

SHAPING A MODERN APPROACH TO OPEN DATA FROM DIAMOND LIGHT SOURCE

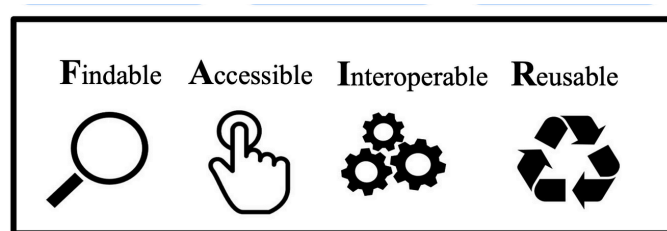
This project is a collaboration between Diamond Light Source (DLS) and the University of Oxford's e-Research Centre (OeRC) in the Engineering Science Department that aims to understand the opportunities and barriers in moving towards FAIR and open data within the Photon and Neutron scientific community.

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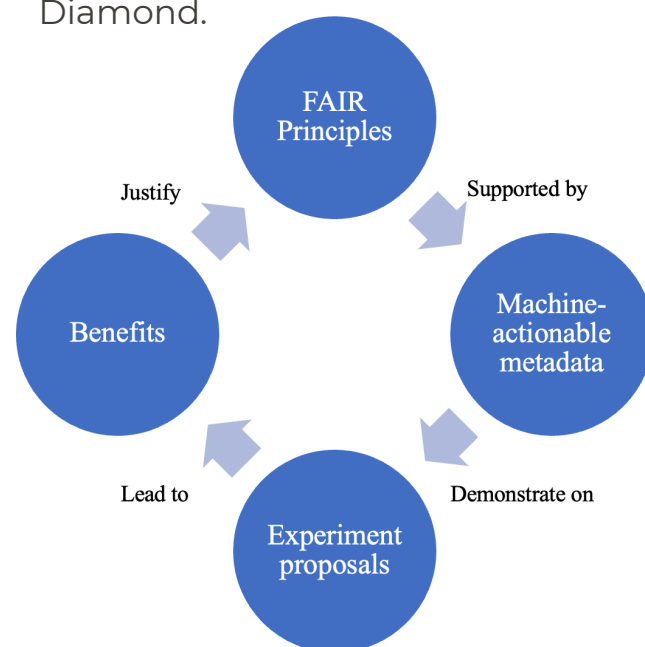
WHAT IS FAIR?

The FAIR Principles (Wilkinson et al., 2016) are a set of principles guidelines and best practices for data management to enhance the value of all digital resources and its reuse by humans and machines.



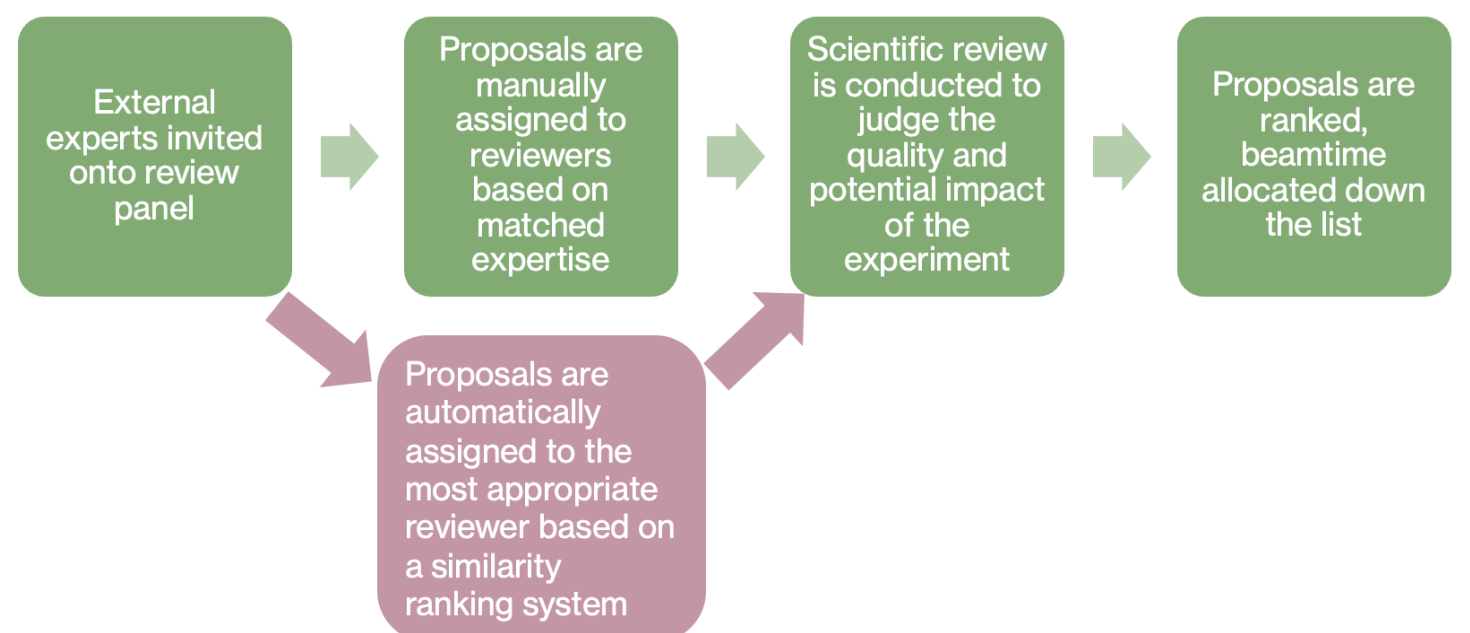
OBJECTIVE

Demonstrate the concept of machine-actionable metadata on experiment proposals to kickstart the FAIRification process at Diamond.

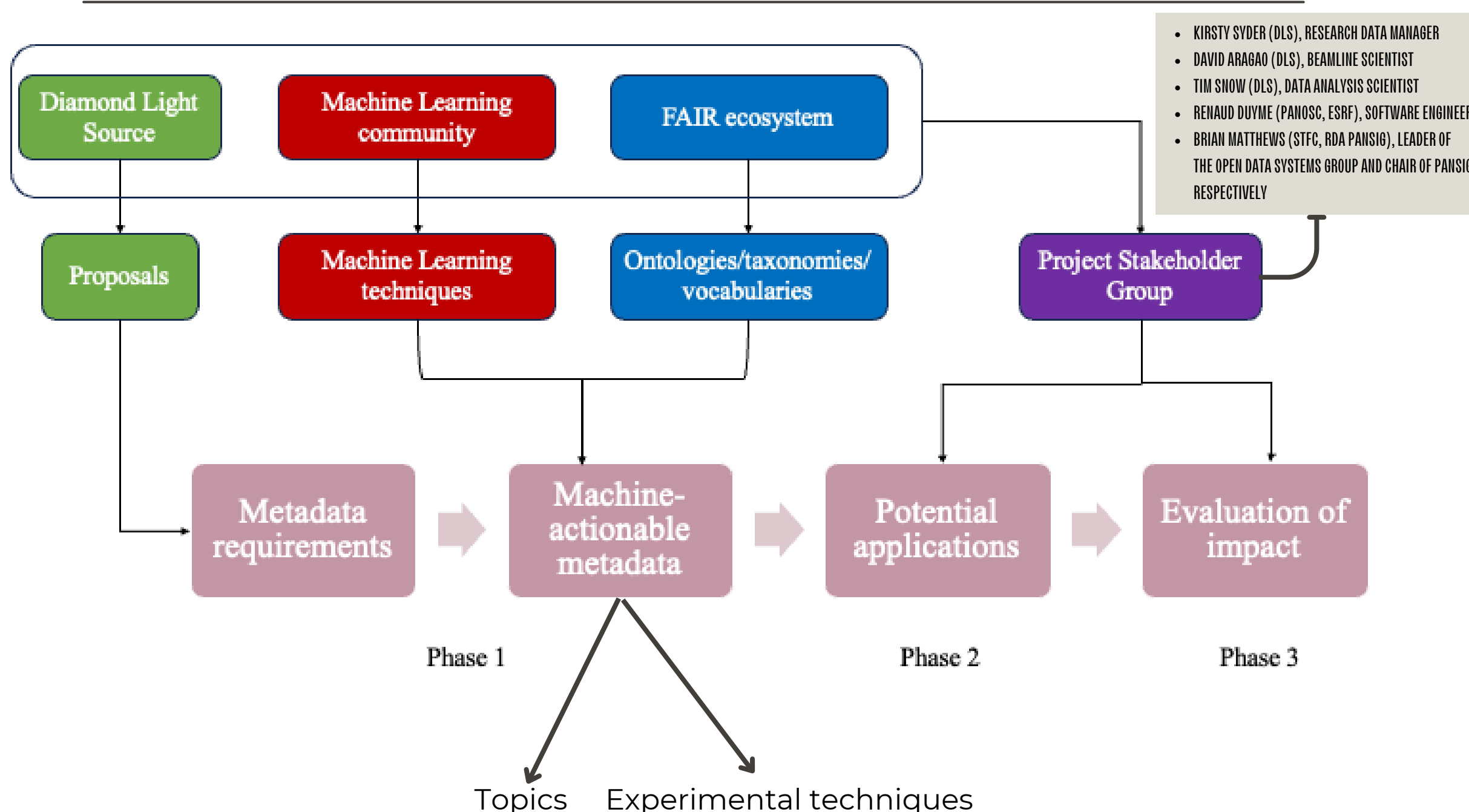


POTENTIAL APPLICATION

Experiment proposal Peer Review Process:



OVERVIEW



CONTACT

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Project GitHub repository



REFERENCES

Wilkinson, Mark D. et al. (Mar. 2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: Scientific Data 3.1. ISSN: 2052-4463. DOI: 10.1038/sdata.2016.18. URL: <http://dx.doi.org/10.1038/sdata.2016.18>.

Phase 1 will extract machine-actionable metadata of DLS' experiment proposals using Machine Learning and tools from the FAIR ecosystem. Phase 2 will identify potential applications for the metadata and the impact of which will be evaluated in Phase 3, both of which will be done with the help of the Project Stakeholder Group.