MC-ReDD - Metadata Capture and validation for Re-use of raw Diffraction Data



To tackle the challenge posed by the vast amounts of raw data in diffraction experiments, MC-ReDD will focus on the expanded imgCIF format, which allows easy transfer and processing of the metadata associated with image data, without needing to transfer the actual data images, with the goal of facilitating the interoperability and reusability benefits offered by the imgCIF scheme.



Solution Challenge Scientific Impact **Partners** Current methods for MC-ReDD will create a While enhancing European XFEL, International Union of interoperability and handling raw data lack publicly-available, standardisation, hindering easy-to-use tool for semi or reusability of raw diffraction Crystallography Journals data across scientific transparent communication fully automatic construction between researchers, and of imgCIF files from raw data domains, the project aims to sets, offering a way to make the tools available as making it harder to trust and transparently communicate an Open Science Service reuse data across within the EOSC Web of FAIR rich information about raw disciplines. data in a standardised, data and Services, and in the form of an open service robust, machine-readable fashion, allowing third-party hosted by the IUCr journals raw data services to be website. provided on the open web. https://www.oscars-project.eu/projects/mc-redd-metadata -capture-and-validation-re-use-raw-diffraction-data