LabID-PROV: Tracking and Sharing Data Provenance with RO-Crate in Lab Integrated Data



The LabID-PROV project aims to extend the Lab Integrated Data (LabID) data model to include accurate modelling of both workflow (WF) and WF runs, offering a unified application to manage derived data provenance independently from analysis procedure and platform, and providing a concrete solution to ensure the traceability of derived data.



Solution Challenge Scientific Impact **Partners** While primary research data LabID-PROV will bridge European Molecular LabID-PROV will enhance the Biology Laboratory - EMBL is regularly shared in LabID platform by allowing critical gaps in data traceability to facilitate FAIR repositories, the sharing of accurate modelling of both final derived datasets WFs and WF runs. Leveraging sharing of derived data several resources in the LSRI remains inadequate, often together with their due to the lack of Science Cluster, it will provenance metadata, comprehensive provenance streamline the import & export enhancing reproducibility of datasets (and their and adoption of FAIR data metadata. Also, the diverse management practices. metadata) described using languages, tools, and Workflow Run RO-Crate computing environments used complicate the profiles. The project will also tracking of workflows and implement use cases using https://www.oscars-project.eu/projects/labid-prov-tracking their metadata. both omics and imaging data. -and-sharing-data-provenance-ro-crate-lab-integrated-data