

Improving Data-Producing Workflows in SFB 985

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The INF project has supported the SFB's researchers from the beginning and continues to do so throughout the 3rd funding period. It currently maintains and supports the existing infrastructure such as the sample management system and SharePoint, while actively engaging with project members to better understand their needs and improve data-producing workflows in their research. The below example has been implemented for tensiometry data at the Institute of Physical Chemistry.

Reported Problems

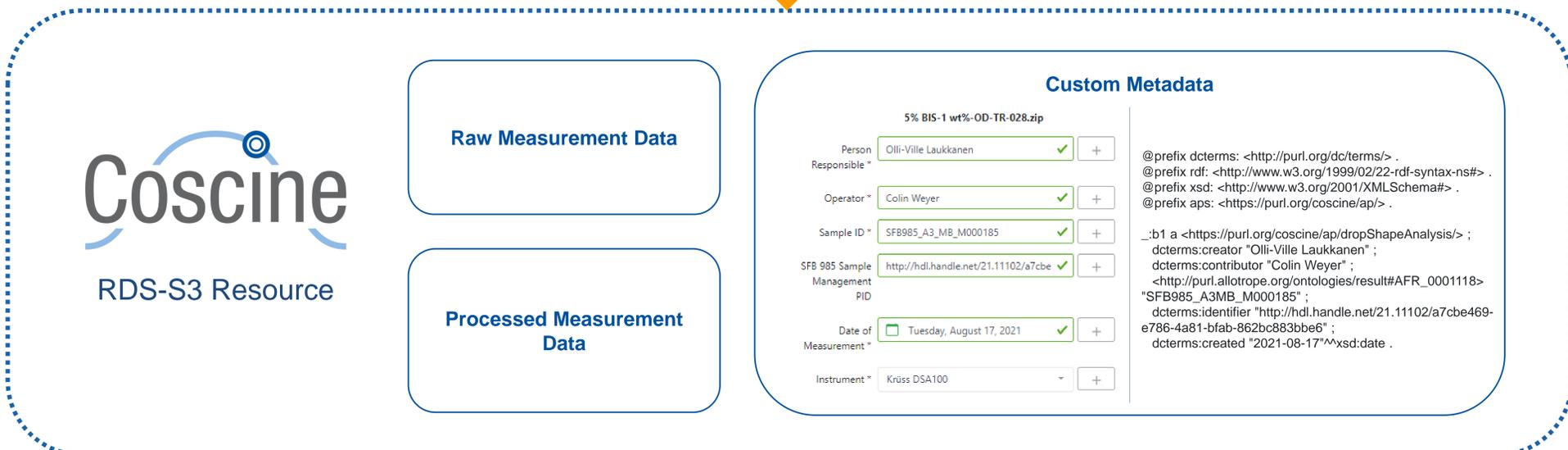
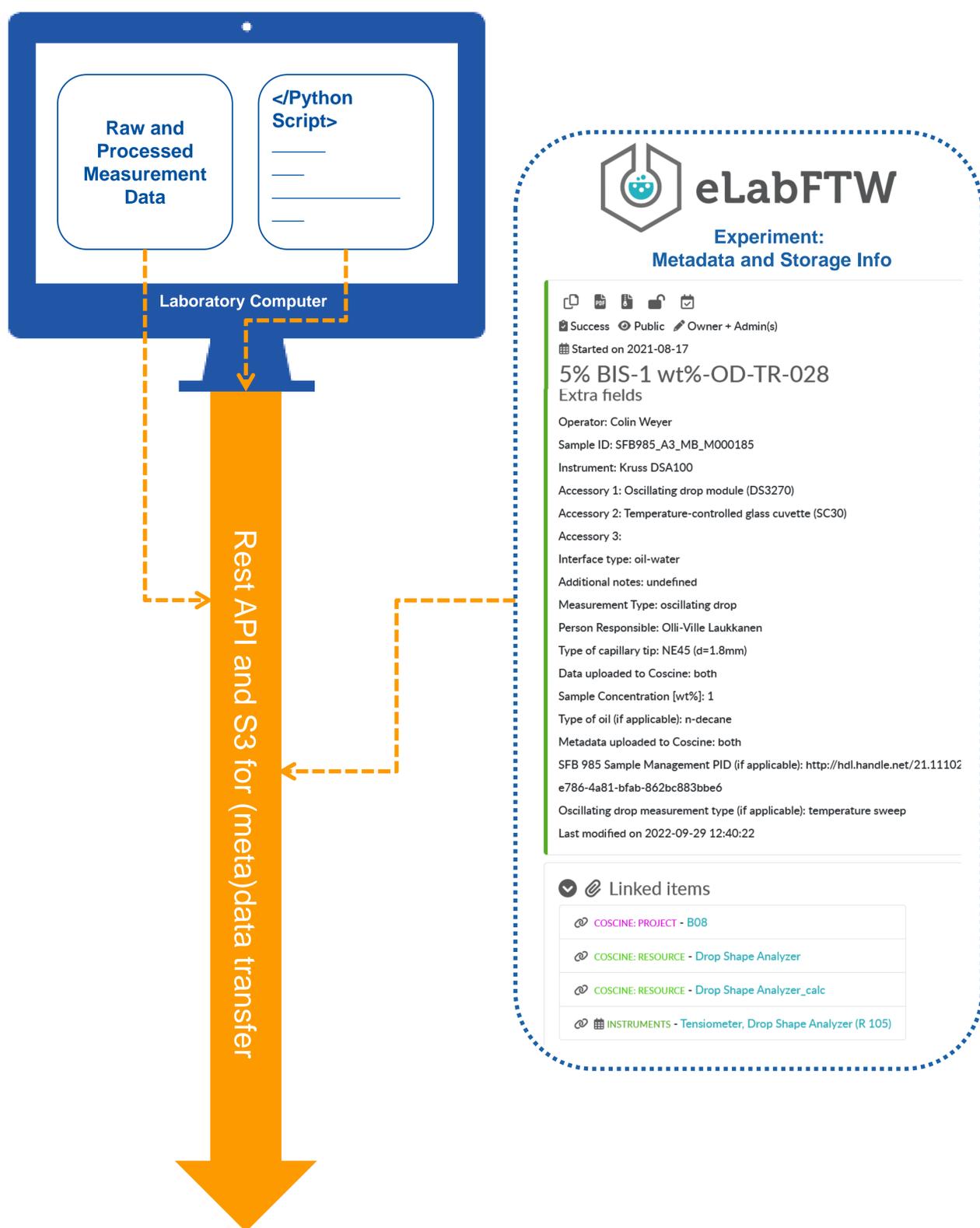
- Large raw data files pose challenge for local storage infrastructure
- Difficult data re-use due to lack of standard documentation

Approach

- Continuous exchange with researcher
- Coscine for data storage
- Added bonus: metadata annotation in Coscine using ontologies such as the Chemical Methods Ontology (CHMO) (see NFDI4Chem Terminology Service)
- eLabFTW experiment templates for standardized documentation
- Automated (meta)data transfer

Outlook

- Working to establish workflow for superresolution fluorescence microscopy (SRFM), dynamic light scattering (DLS), and differential dynamic microscopy (DDM)
- Standardize documentation by establishing experiment templates for further methods in eLabFTW
- Tie in data publication workflows to repositories such as RADAR4Chem



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