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## **Bridging Repositories, ELNs and Semantic Data Management: A LinkAhead-based use case for 3D Additive Manufacturing**

*Wednesday 26 February 2025 19:00 (20 minutes)*

Interdisciplinary collaborative scientific networks often rely on a multitude of different software systems for data storage and data exchange. Keeping data findable and in sync between different sites, working groups and institutes can be challenging. We developed a solution based on the open source software LinkAhead that combines meta data from different repositories into a single research data management system (RDMS).

The meta data import tool was created using the extendable crawler framework provided by LinkAhead. This enables us to import meta data from four different repositories and ELN systems used by the Cluster of Excellence 3D Matter Made to Order (3DMM2O).

In addition, the RDMS is built in a way that data models and crawler definitions can also be extended and adapted to future requirements by the researchers at any time. Its basic functionality contains a graphical web-interface, as well as an API for automated queries which provides intuitive searching and querying and using meta data from all linked systems.

### **I want to participate in the youngRSE prize**

no

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