WAGENINGEN
UNIVERSITY & RESEARCH

Project Description Round 2

2.01 Data Management at WCDI
Institute: WCDI

The aim of the project is to thoroughly investigate the architecture and functionality of the Yoda framework, with a view to Yoda becoming the standard data management platform for WUR, and to outline procedures for integrating and updating data produced by WCDI into the Yoda infrastructure. The potential outcome will be workflows / procedures that ensure the management and archiving of the diverse research and non-research data produced at WCDI according to the FAIR principles.

Nienke Beintema

nienke.beintema@wur.nl

2.02 Automatic metadata exchange between iRods and Geonetwork
Institute: WenR and WMR

During a pilot project, the team concluded that it is possible to extract and/or inject metadata from/into iRods. As a follow-up, the team aims to actually build the solution to be able to copy metadata from iRods to Geonetwork and vice versa. The potential outcome of the project is an up and running infrastructure of metadata entered in Yoda and imported via a (near) real time interface into instances of Geonetwork at WenR and WMR.

Martin Klompmaker
martin.klompmaker@wur.nl

2.03 WFBR Protein Data Central
Institute: WFBR

The project aims to draw inspiration from the existing WFBR FAIR data infrastructure on Microsoft Azure, which enables machine-readable linked data suitable for various data/software services with high scalability. Bridging this approach with YODA (or underlying iRODS) could add the desired discoverability, while expanding the accessible protein data within WUR. The outcome of the project is to strengthen the WFBR data strategy and create a FAIR data infrastructure that meets the needs of WFBR research to make food protein data accessible.

Rutger Vlek
rutger.vlek@wur.nl

2.04 WFSR and Wageningen University Department of Agrotechnology and Food Sciences
Institute: WFSR and WU AFS

Currently, the WFSR stores HRMS/MS data on iRODS-compatible servers, and the project aims to extend this storage to ensure comparable data and metadata formats between the WFSR and Agricultural and Food Sciences. We will develop scripts to automate this process and ensure deterministic RDF endpoints. The outcome of the project will be a harmonised RDF workflow for storing and processing FAIR datasets of multiple HRMS/MS spectra, which can ultimately be used in federated learning.

Bas van der Velden
bas.vandervelden@wur.nl