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Research Data Management with iRODS

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Research Data Management (RDM) serves to improve the efficiency and transparency in the scientific process and to fullfil internal and external requirements. Three important goals of RDM are:

- long-term data preservation,
- scientific-process documentation,
- data publication.

One of the tasks in RDM is to define a workflow for data as part of the research process and data lifecycle. RDM workflows usually consists of data-management policies that are considered complex by the researchers that have to implement them. A challenge of the data-management system is to strike the balance between procedural standardization and domain-pecific customisation, so that different data-management workflows can be implemented.

In this presentation, we will discuss a data-management workflow designed for the research field of cognitive neuroscience, the data of which usually contains sensitive information. We will outline the authorisation policies around it, and present an approach of using a rule-based data management system, iRODS, to realise the workflow and achieve the three RDM goals.

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