OSCARS

Open Science Clusters' Action for Research & Society

Funded Project

FLEX4HEALTH

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Implemented by

UMCG: **IS**Global
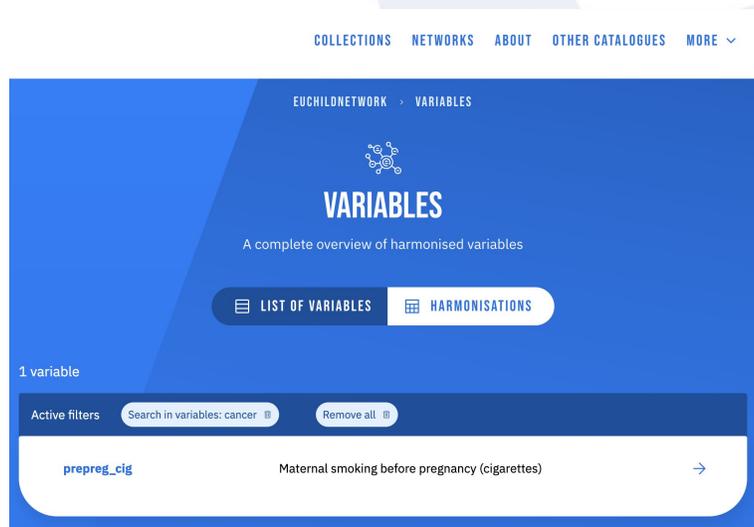
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What problem(s) are you going to solve?

- Life sciences research is enhanced by combining data from multiple sources (increased power, demonstrate generalisability).

- However, identifying relevant data sources (e.g. cohort studies) is often hard.

- Federated analysis (remote analysis of data) is a powerful tool, but requires considerable technical expertise.

- Federated analysis methods for some modalities are underdeveloped (e.g. imaging).
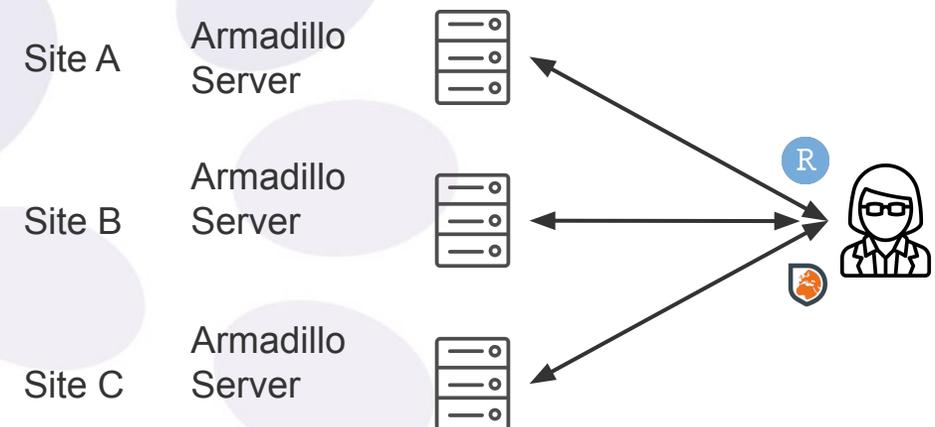
What are you planning to do to solve the problem?

- Improve two established open source tools from TRL-5 to TRL-7:

Molgenis Data Catalogue

DataSHIELD Federated analysis

What will be the results and how do you plan to make them available to the broader community?

1. Streamline the install and maintenance of these products to increase accessibility to researchers and institutions.

2. Extend functionality to enable discovery and re-use of imaging data, and showcase with demonstrator project.

3. Tools onboarded to ESFRIs (ELIXIR, EIRENE, BBMRI) & EOSC.

4. Training materials disseminated through ELIXIR's Training E-Support System.

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Who is doing it?

- Tim Cadman, Senior Data Scientist, UMCG
- Morris Swertz, Professor of Bioinformatics, UMCG
- Juan-Ramón Gonzáles, Research Professor, ISGlobal
- David Sarrat Gonzáles, Statistical Programmer, ISGlobal