

# DLaaS working group



Organising future workforce activities

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# What is the DLaaS

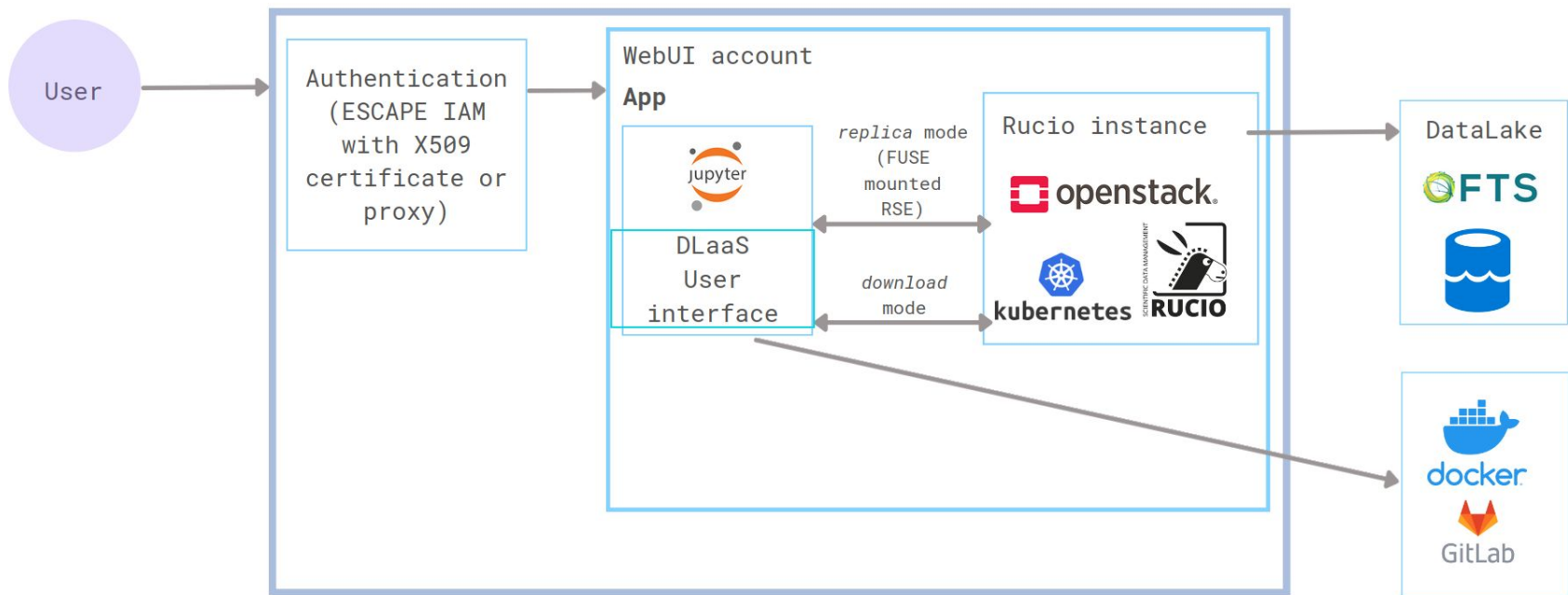
A Jupyter environment that connects the ESCAPE Data Lake with a computing facility.

Created by WP2 to:

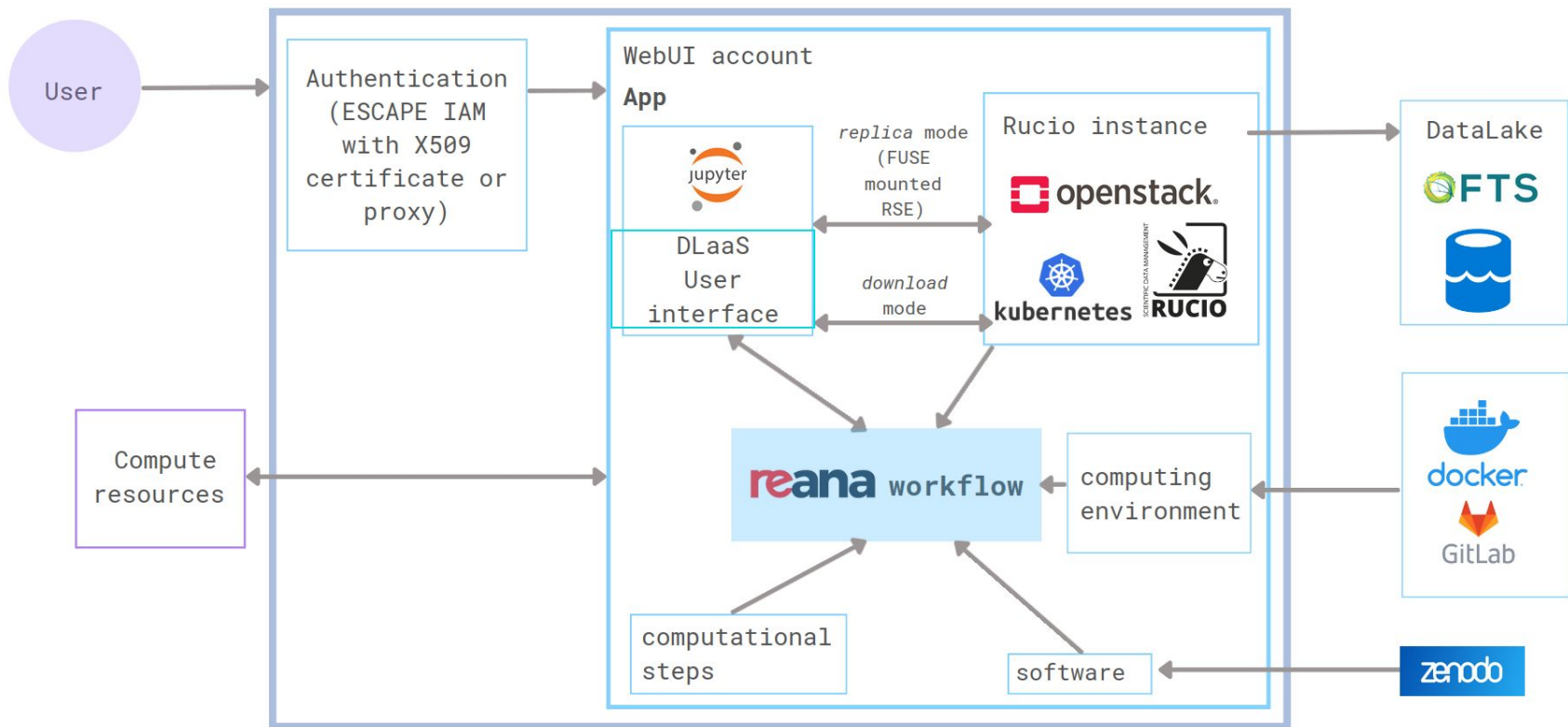
- Provide **easier interaction** with the RUCIO instance
- Connect DL with **compute** resources + **storage** resources
- Start **collecting** ESCAPE services under a JupyterHub (server) environment



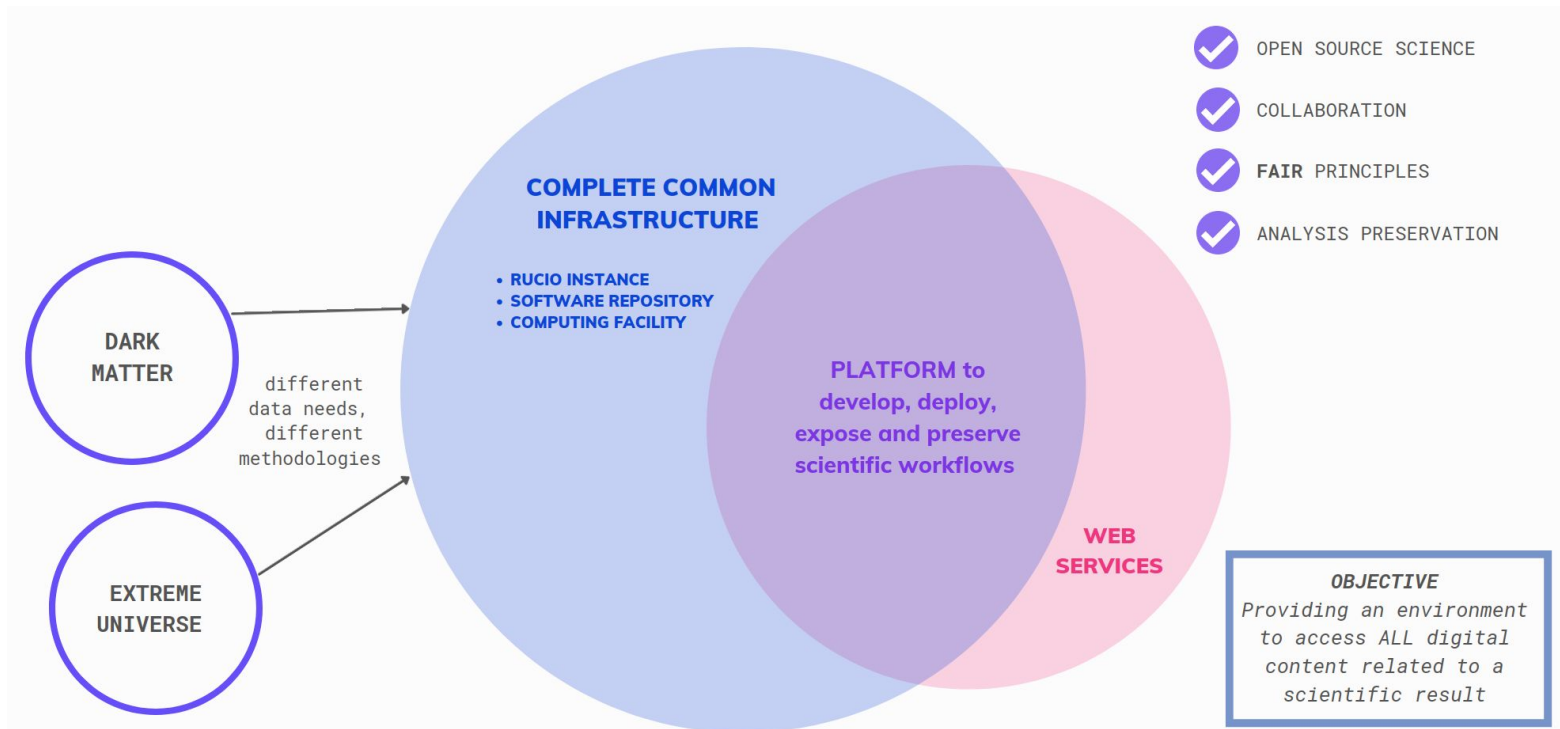
# Current status



# Goal

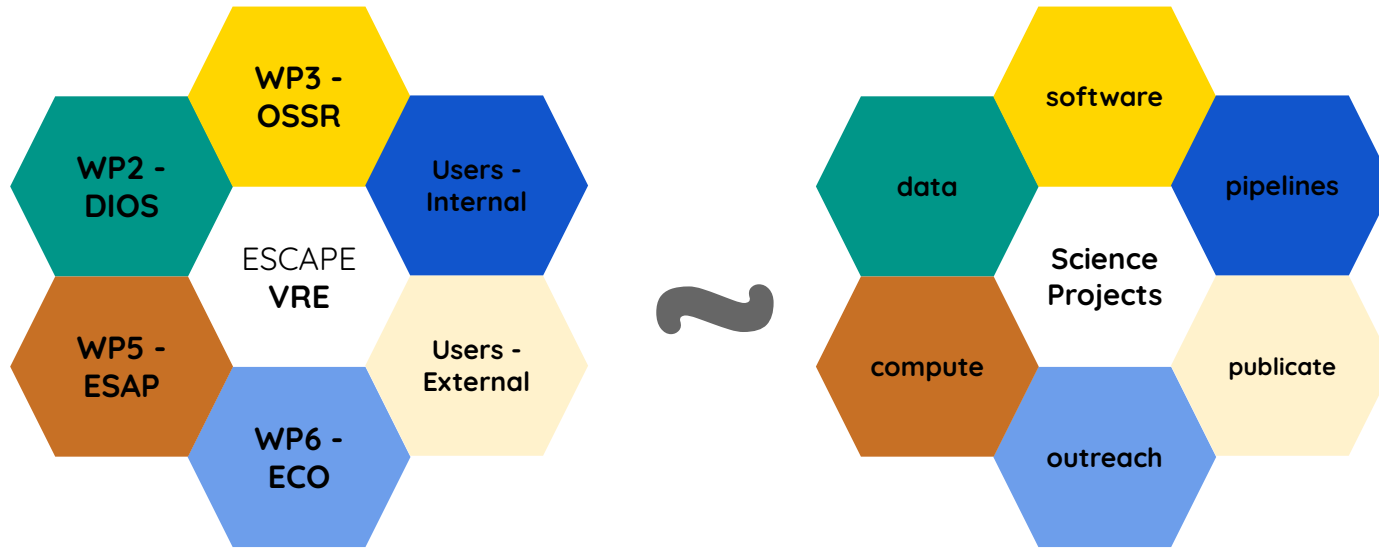


# EOSC-Future science project



# Virtual Research Environment (VRE)

A platform to collect all ESCAPE services and facilitate EOSC-Future project development



# Looking into the future

We envision three different scenarios:

- **User** - researcher
  - I would use the DLaaS to run my analysis workflows
- **Developer** - help on technical side to maintain and expand the DLaaS capabilities
  - Maintain the K8s cluster component
  - Connect to large computing resources (through Reana)
  - Scale the infrastructure to allow more users
  - Authenticate to DLaaS and Reana with the same token
- **Provider**
- **Learner** - anyone
  - I am interested in the technologies and would like to reproduce the DLaaS in an environment which is not CERN specific
- *Other?*



# Round table

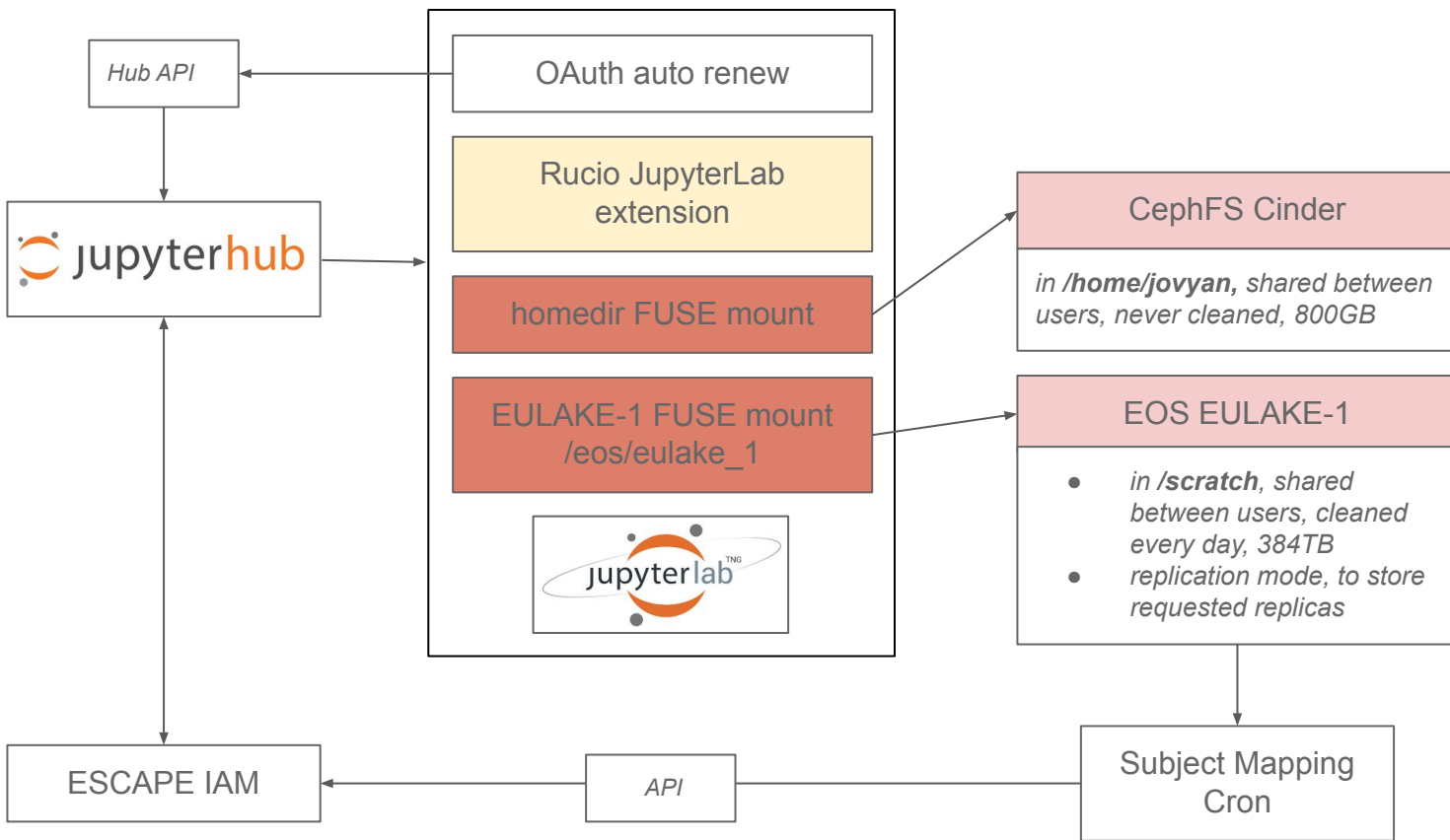
1. **Why** do you want to join?
2. What do you **expect** from these monthly meetings?
3. What is your **expertise**? How could you contribute?





# **Back-up slides**

# DLaaS into specifics



# Looking into the future

## 1. FLEXIBLE REPRODUCIBILITY

- a. Ability to change variables within REANA configuration files
- b. Modular analyses: different environment and software distribution for each step

