



InfoPack

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Funded by
the European Union

raise-science.eu

Project name: Research Analysis Identifier System

Start date: 1 October 2022

End date: 31 January 2026

Coordinator: Aristotelio Panepistimio Thessalonikis

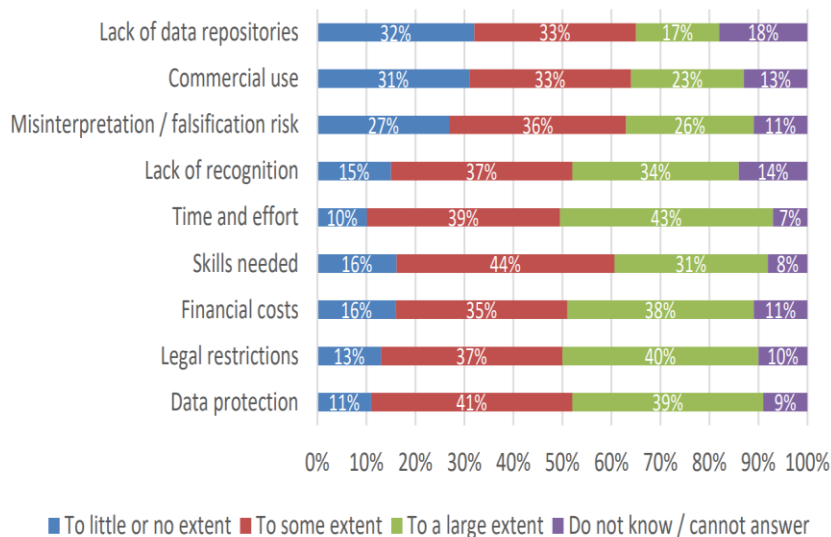
Technical Representatives

Evdokimos Konstantinidis & Despoina Petsani
Aristotle University of Thessaloniki

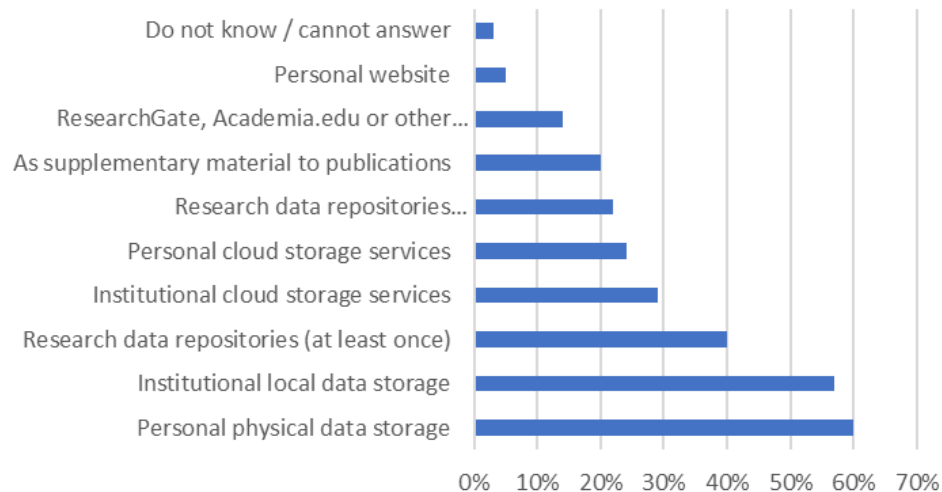
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RAISE project aims to provide the **mechanisms for a distributed crowdsourced data processing system, moving from open data to data open for processing**. To do so, RAISE will attempt to adapt open data to the culture of the research community, ensuring FAIR principles. The vision of the project is the EOSC Web of FAIR Data and Services for Science is an open, fair and reliable Research Community where **every researcher will be accredited for their work and all research data will be equally accessible for processing** without violating data protection regulations.



Research data depositing



the value of data is in processing them and not just in owning them

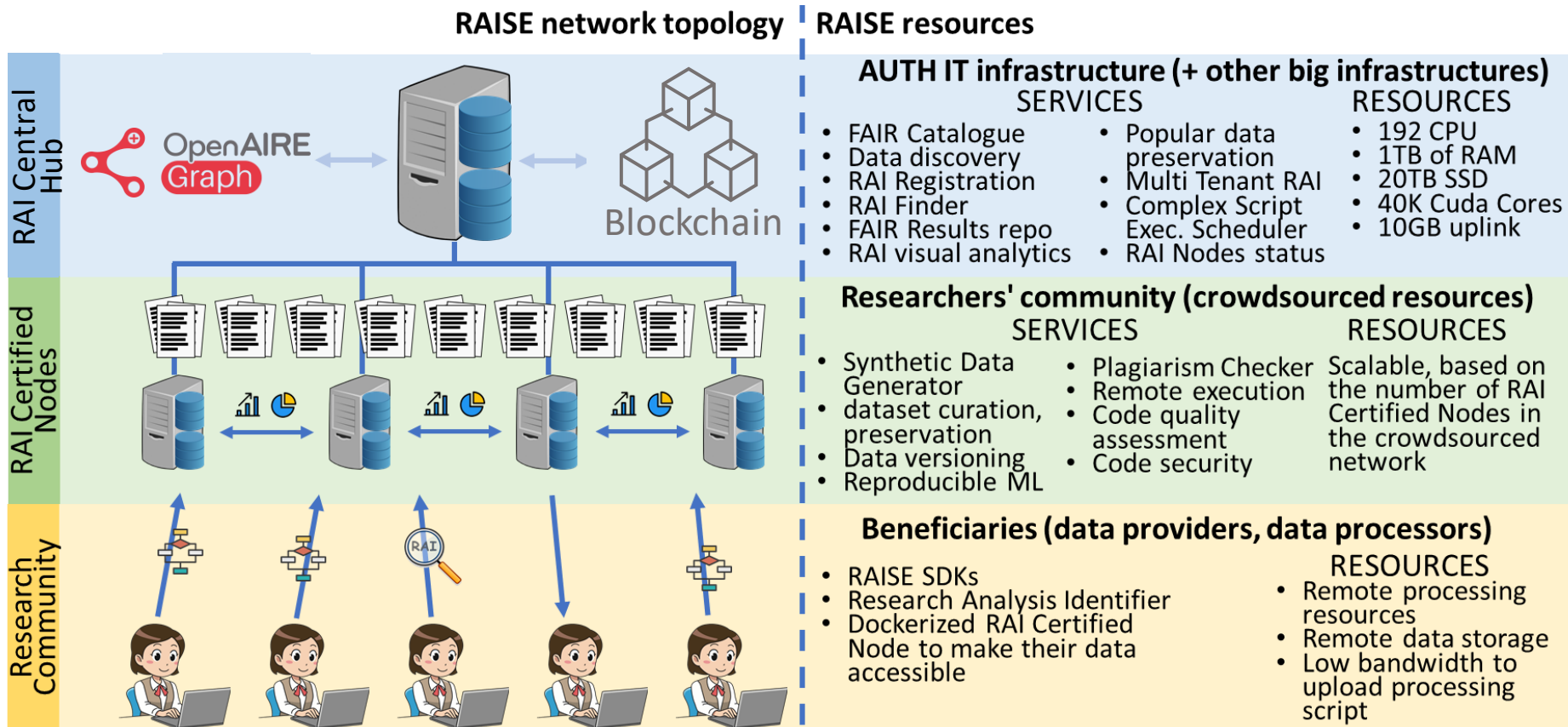
RAISE works on moving from open data to data open for processing

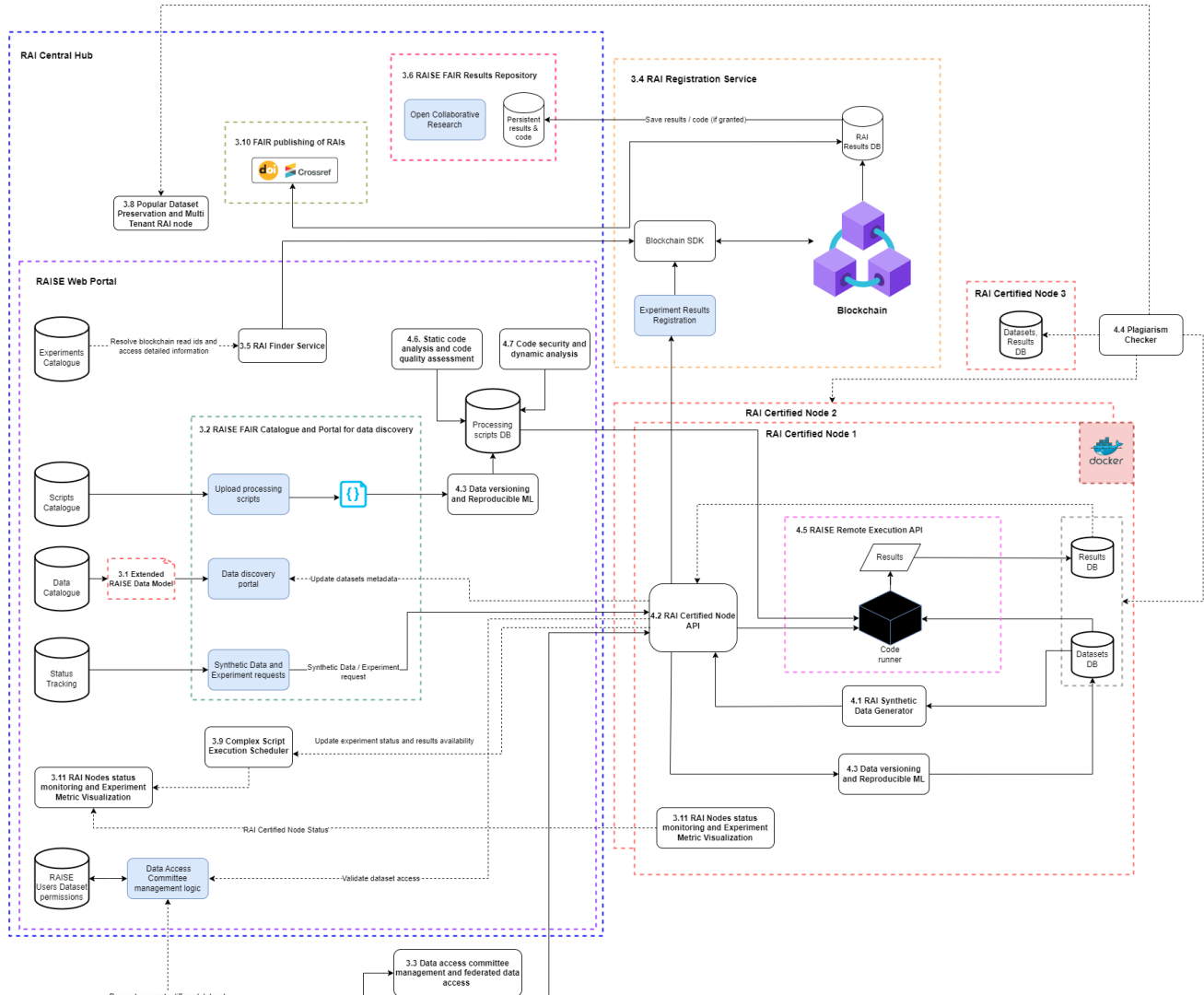
Algorithm to data

- **RAI Central Hub**
 - **Main entry point Portal**
 - Open Science
Community integration
 - Blockchain connector
for reproducibility
 - Scalability &
preservation
- **RAI Certified Node**
 - **Data kept private**
 - **Synthetic / small
version for researcher**
 - **Scripts running logic**



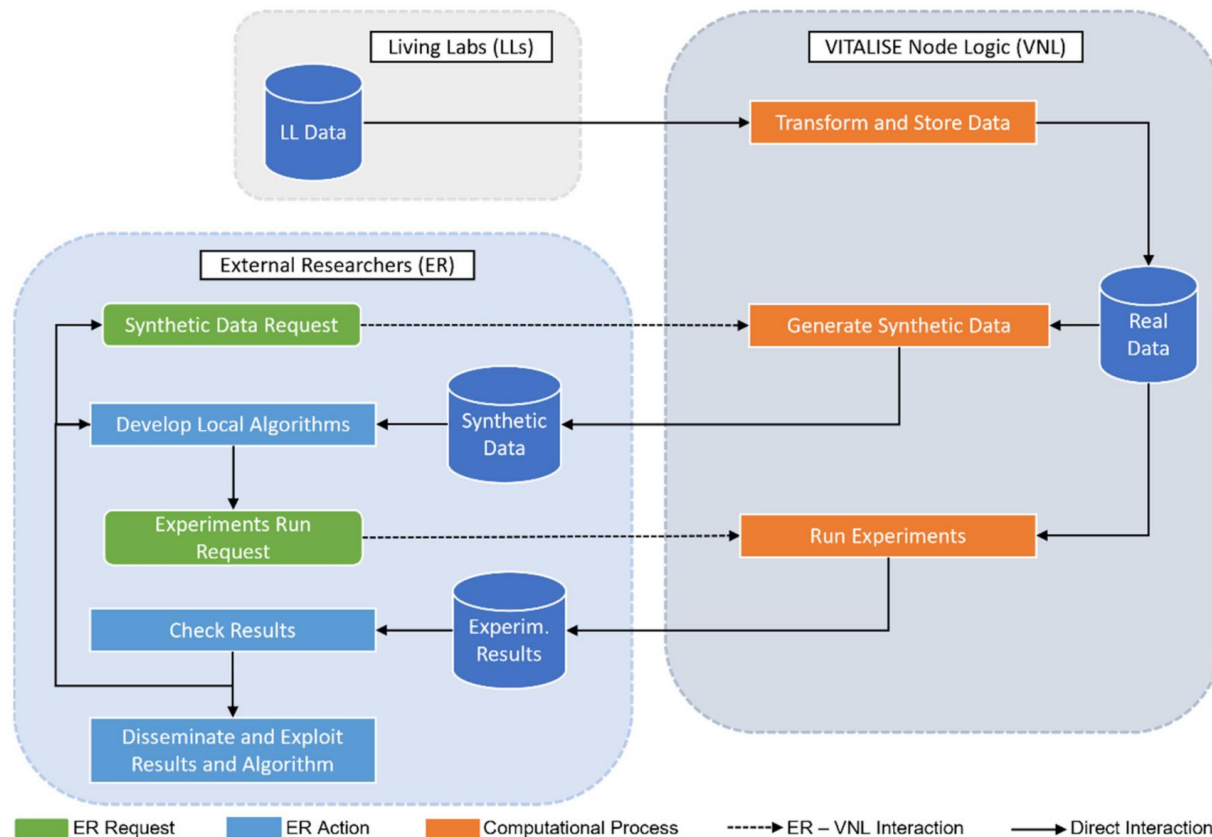
High Level Components



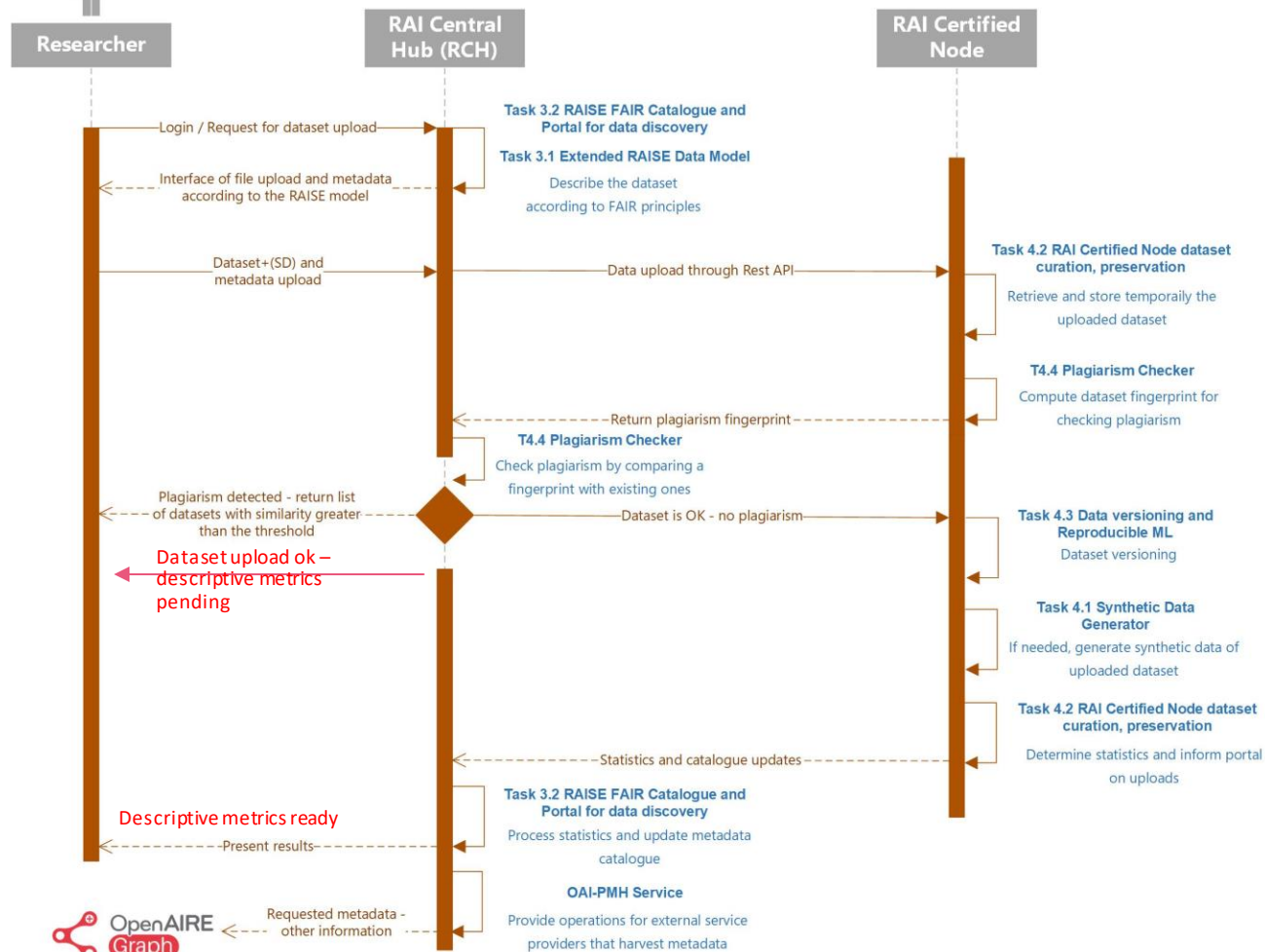




Short concept intro from VITALISE



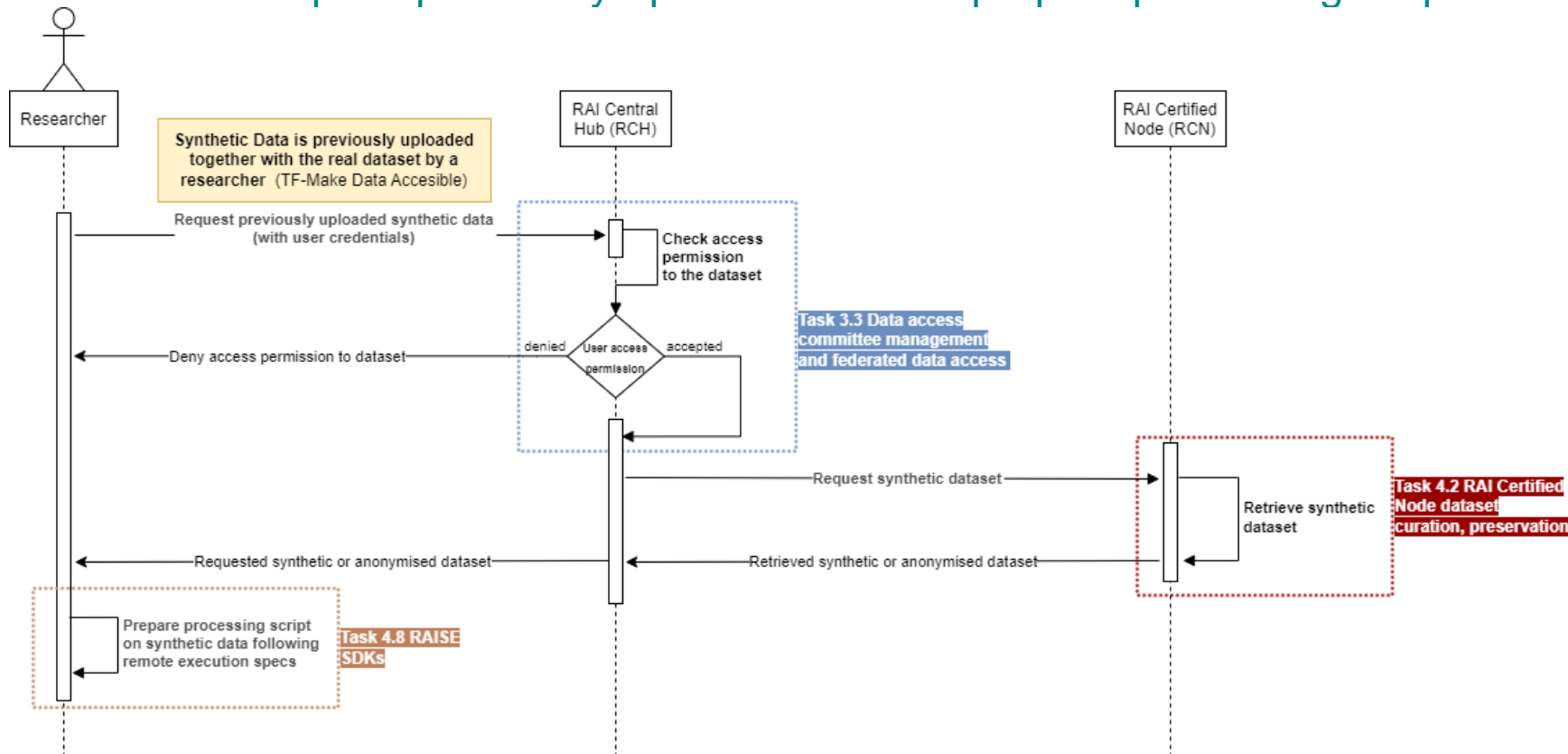
Make data accessible – Workflow new

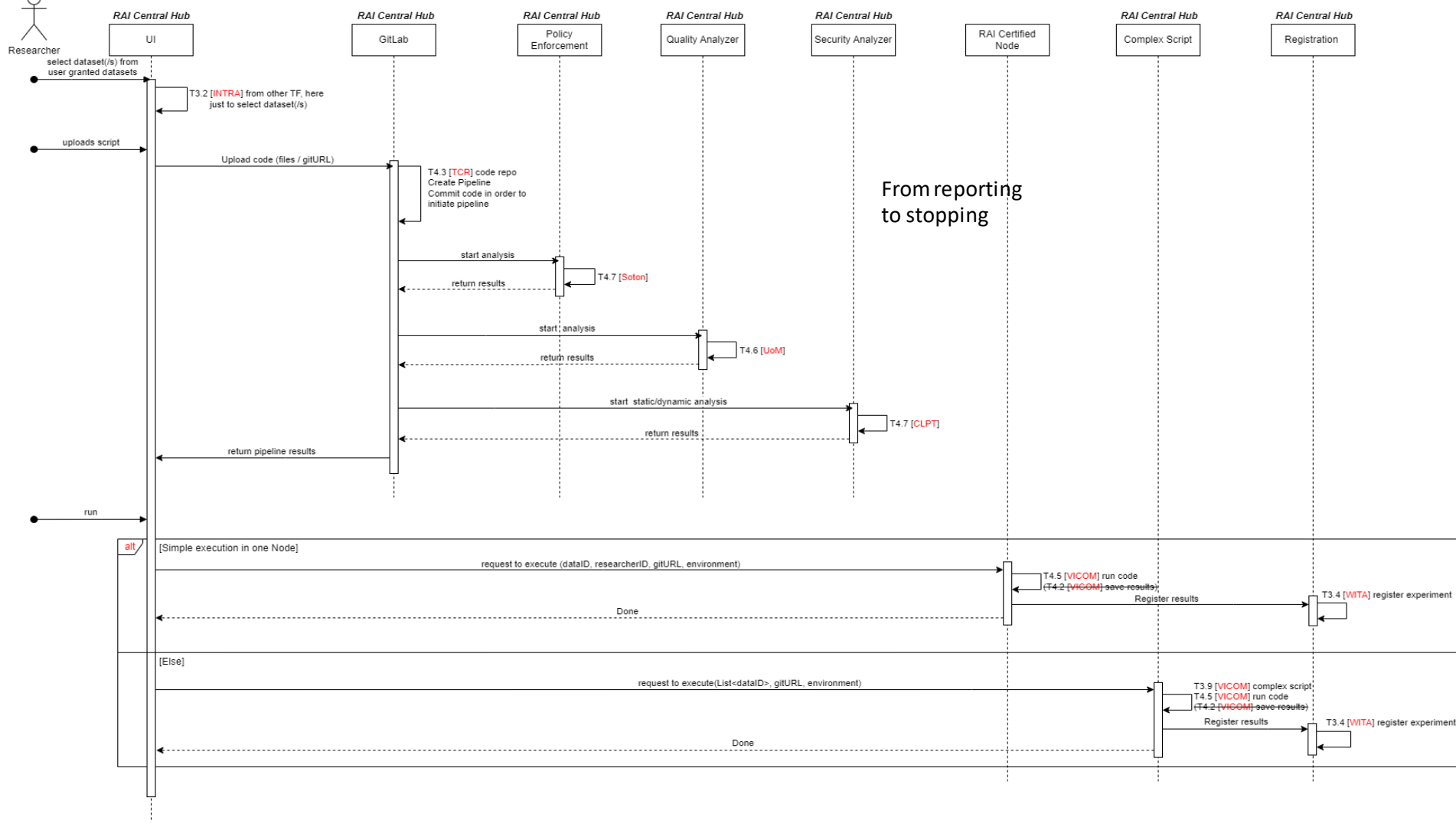


If needed, train/retrain
SDG model considering
uploaded dataset

Prepare processing on synthetic data

Workflow – Request previously uploaded SD and prepare processing script with it





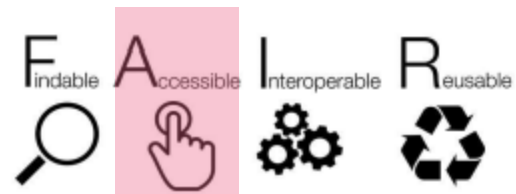
RAI Central Hub Services

- Complex Script Execution Scheduler
 - Orchestration of experiments involving datasets from multiple nodes.



- Nodes Status Monitoring and Experiment Metric Visualisation
 - Collect and analyse node & experiment metrics
 - Visual analytics for policy – usage insights
 - Research quality & impact indicator

- Multi-Tenant RAI Node
 - Replica of a RCN hosted at RCH
 - Service for Popular datasets
 - Specific + researchers uploaded datasets



RAI Certified Node Services

- RAISE SDKs
 - Make features of the RCN Remote script execution API transparent to the researchers
 - Visual Studio Plugin
- RAISE Remote execution API
 - Execution of researcher scripts against the source + complete datasets
 - Combined with quality & security check

