



A personalised prediction and intervention model for early detection and reduction of risk factors causing dementia, based in AI and distributed Machine Learning



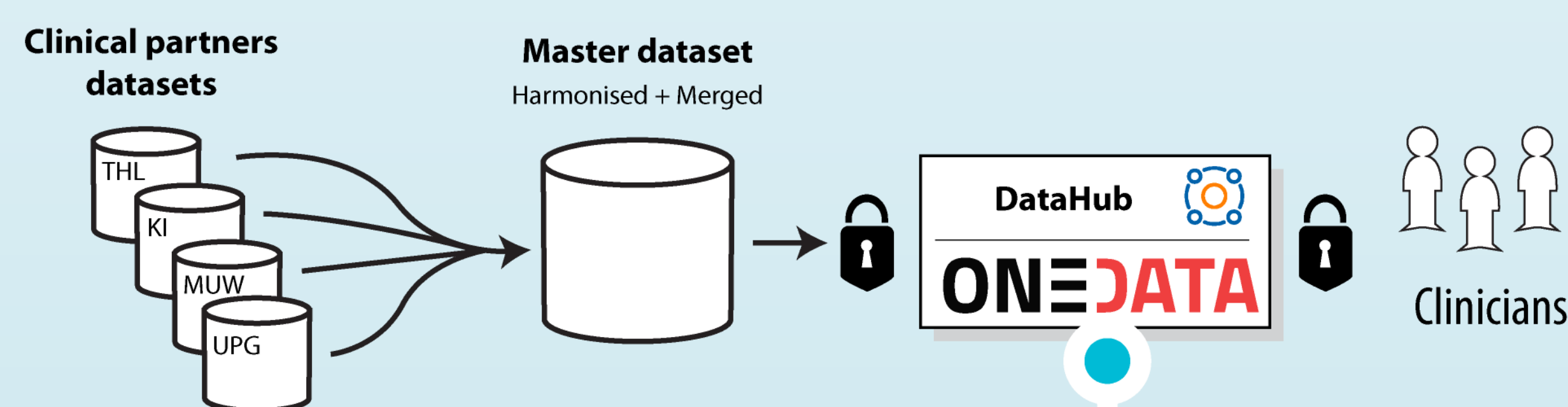
<https://www.lethe-project.eu/>

Using EGI FedCloud as a Platform for Risk Factor Prediction Models

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PHASE I

A retrospective knowledge base used to generate an initial prediction model based on four different data sets provided by the clinical partners of the LETHE consortium



DataHub

To manage data securely and efficiently



Infrastructure Manager

To easily create infrastructure and deploy K8s clusters



Check-in

To manage users and protect data and API access

Online Storage

To provide encrypted volumes to store sensitive data



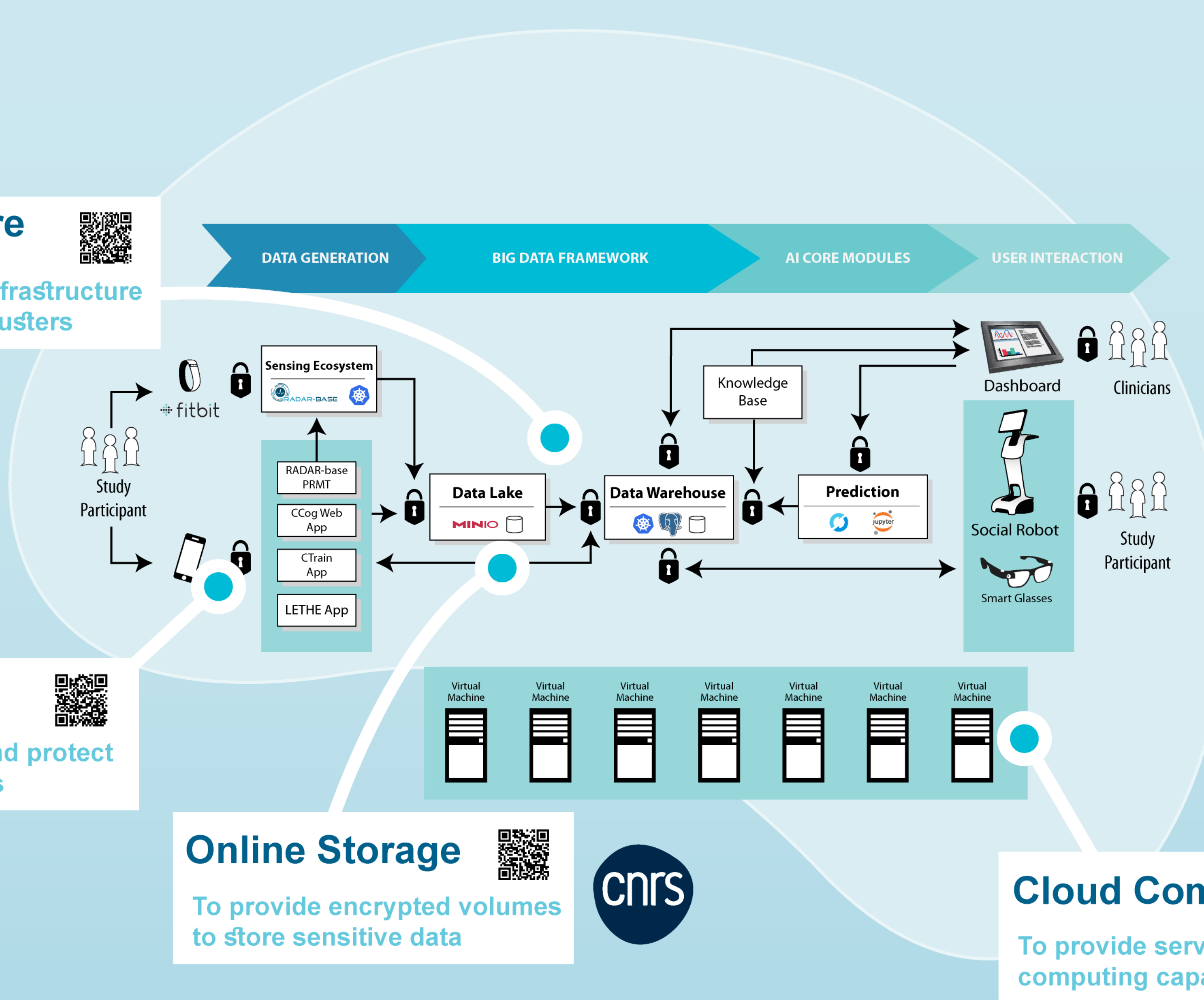
Cloud Compute

To provide servers and computing capacity



PHASE II

Prospective data collected from variable apps, tools and wearables. Data from these different sources have to be harmonised or the AI Modules. These create reports, visualisations and information that are used by clinicians for risk factor identification



Conclusions

The LETHE project uses the EGI FedCloud and other EOSC services as an infrastructure solution. The EGI FedCloud provides both a comprehensive sensitive data management solution for data processing and computing services, and a platform to run bespoke project applications



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