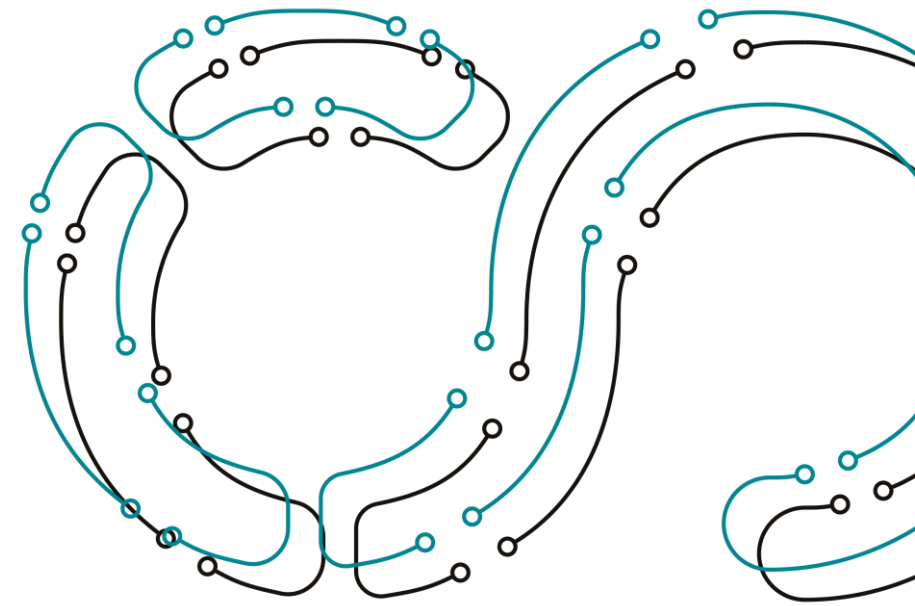


Leveraging Scarce EU Node Resources & Digital Sovereignty

Laurents Sesink

Program manager Open Science, SURF



SURF

We share knowledge and coordinate collaboration

in education, research and innovation

We provide IT services

(50+ and very diverse) to make IT accessible, easy and safe



We organise collective purchasing under the best conditions

In costs, but also in public values



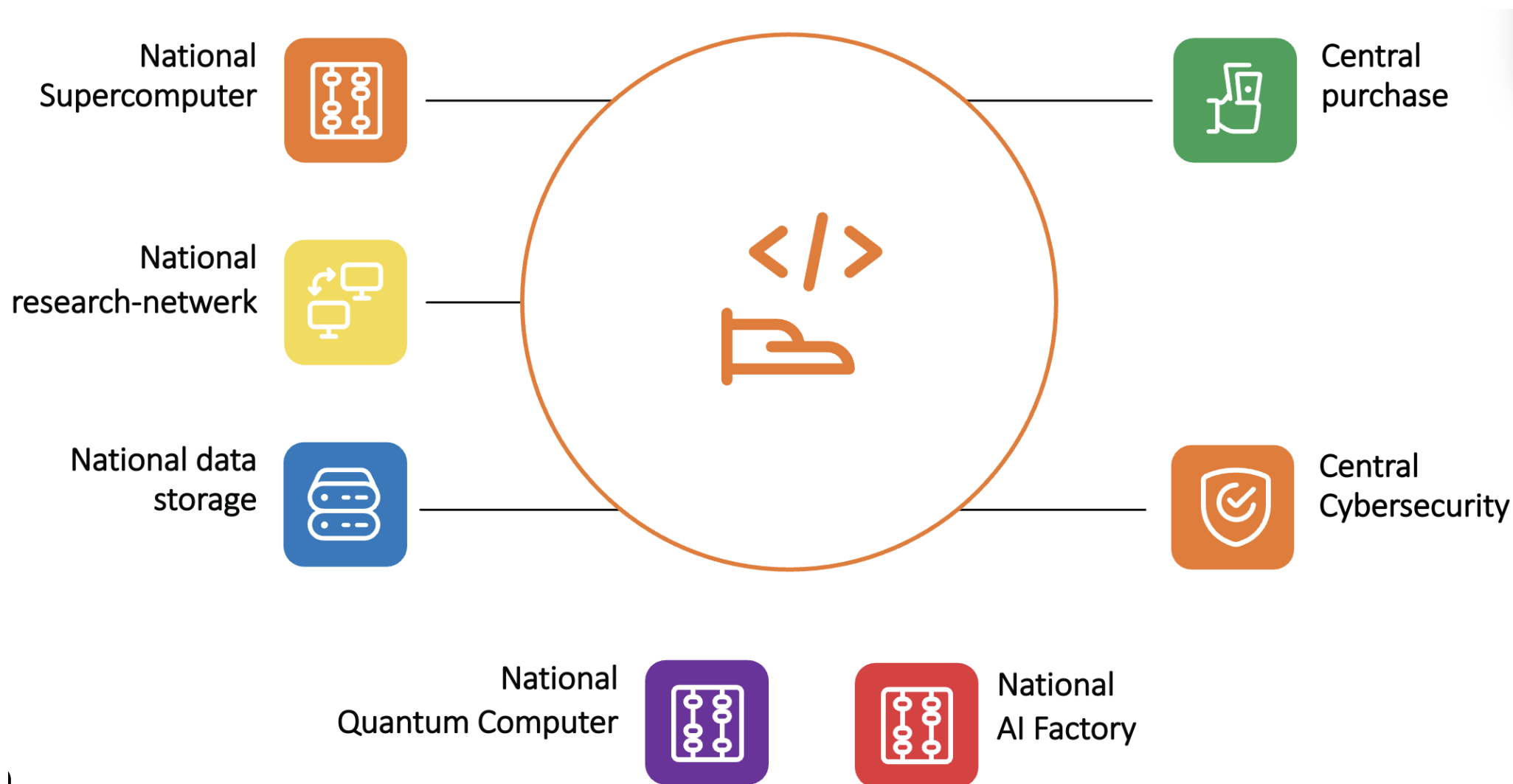
We innovate

To make sure we are ready for the future

SURF is the national ICT cooperative of Dutch education and research institutions.

Members (100+) are all universities, universities of applied sciences, UMCs, and a lot of the research institutions

eosc Services



Strategy: Community led

Important values within our community should be leading and provide guidance in digitization.

But to actually uphold and protect values such as privacy, autonomy, and inclusion, digital sovereignty is necessary.

DIGITAL SOVEREIGNTY



Values

Values provide guidance when making choices, even in times of turbulence, dilemmas or change.

-  **Autonomy**
-  **Humanity**
-  **Justice**

Digital environment

Digital sovereignty is necessary to be able to fight, safeguard and maintain important values in a balanced way within all parts of your digital environment.



Enable seamless access and collaborative realization by organizing research as a commons

Commons approach to organize collective responsibility for (*public good*) resources in line with values of research.

Workflow perspective to support end-to-end- and cross-infrastructure concerns like security and reproducibility

Federative access to support seamless access to distributed resources like data, services and identities

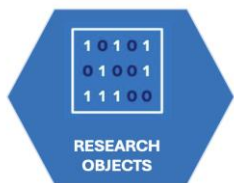
Common Building Blocks to support sustainability by shared building and operation of common services

Waegemaekers, E., Sesink, L., Witkowska, I., Hoogerwerf, M., van den Berg, Y., Doove, J., Bijsterbosch, M., & Oonk, R. (2026). Organizing research as a commons (Version 1.0). Zenodo. <https://doi.org/10.5281/zenodo.21468732>

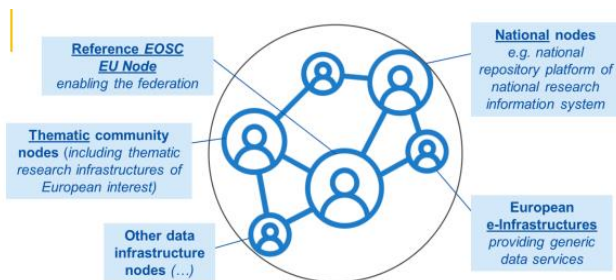


Ambition: Supporting research workflows by connecting data and services through EOSC nodes

European Research Infrastructure Consortium



European Data Spaces



 EOSC Node | The Netherlands



Dutch Quantum Computer

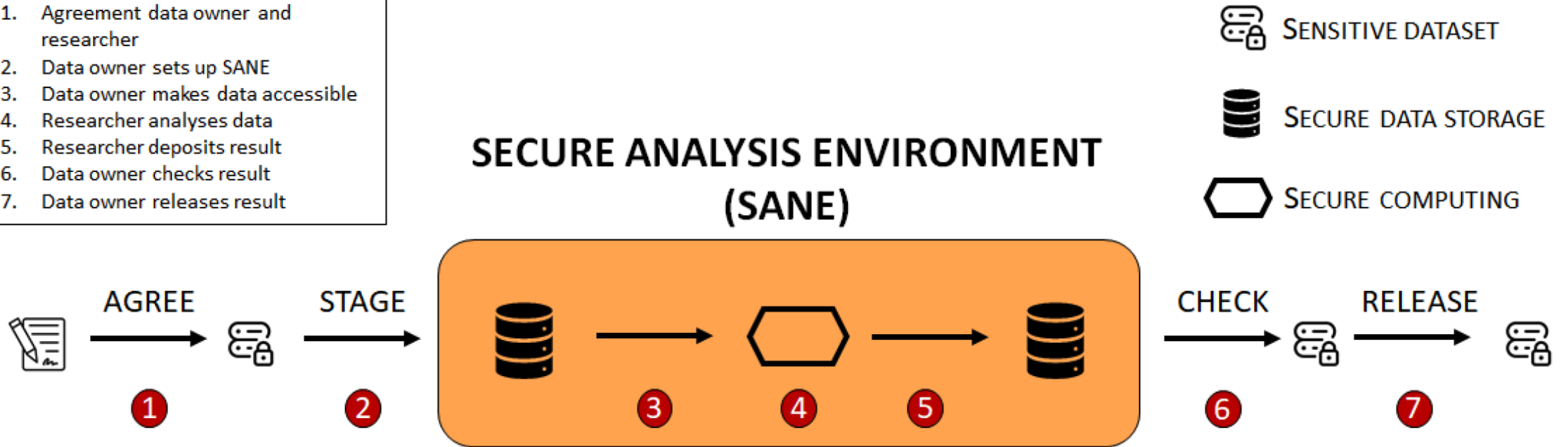


Dutch AI Factory

eosc Secure Analysis Environment (SANE)

STEPS

1. Agreement data owner and researcher
2. Data owner sets up SANE
3. Data owner makes data accessible
4. Researcher analyses data
5. Researcher deposits result
6. Data owner checks result
7. Data owner releases result



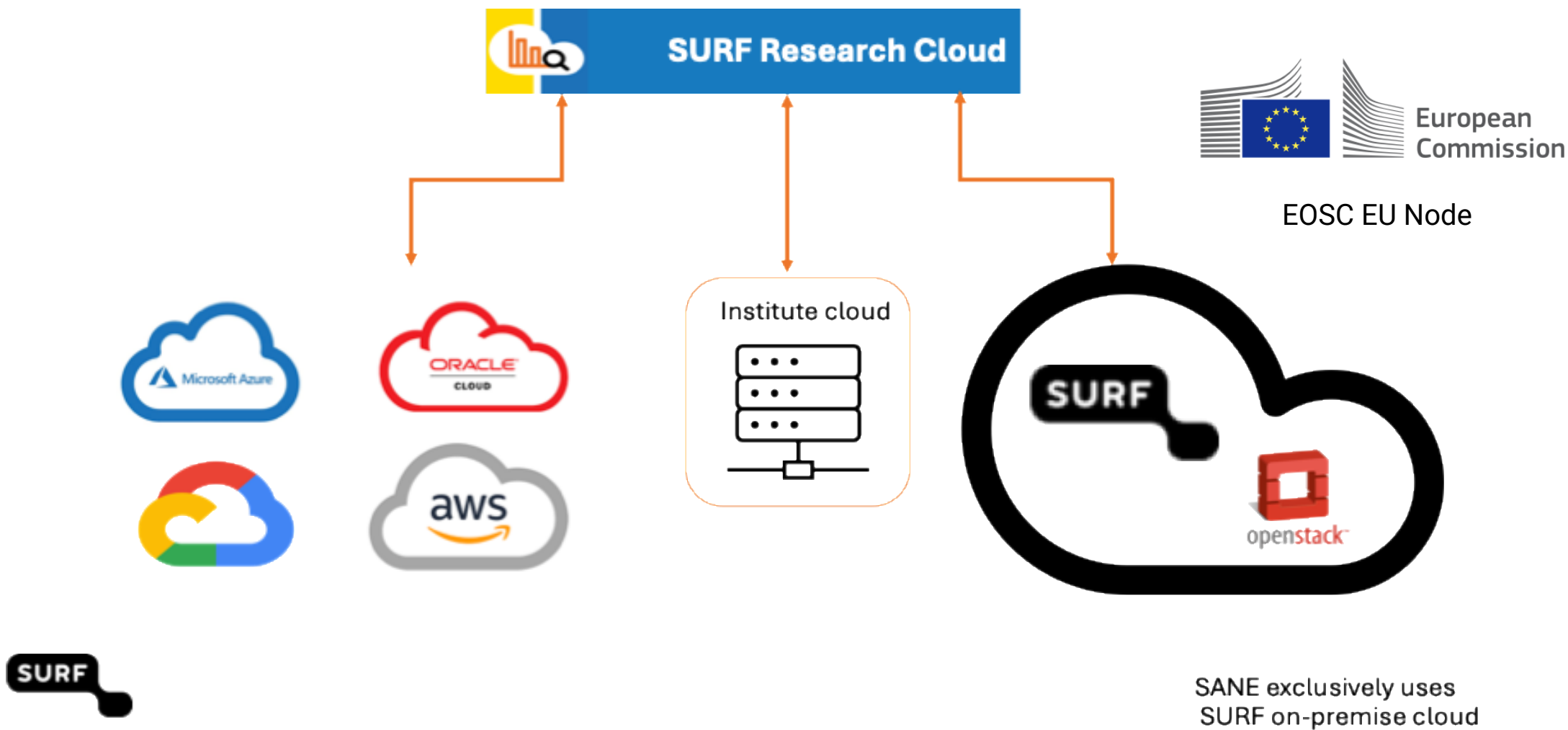
eosc SANE: under the hood



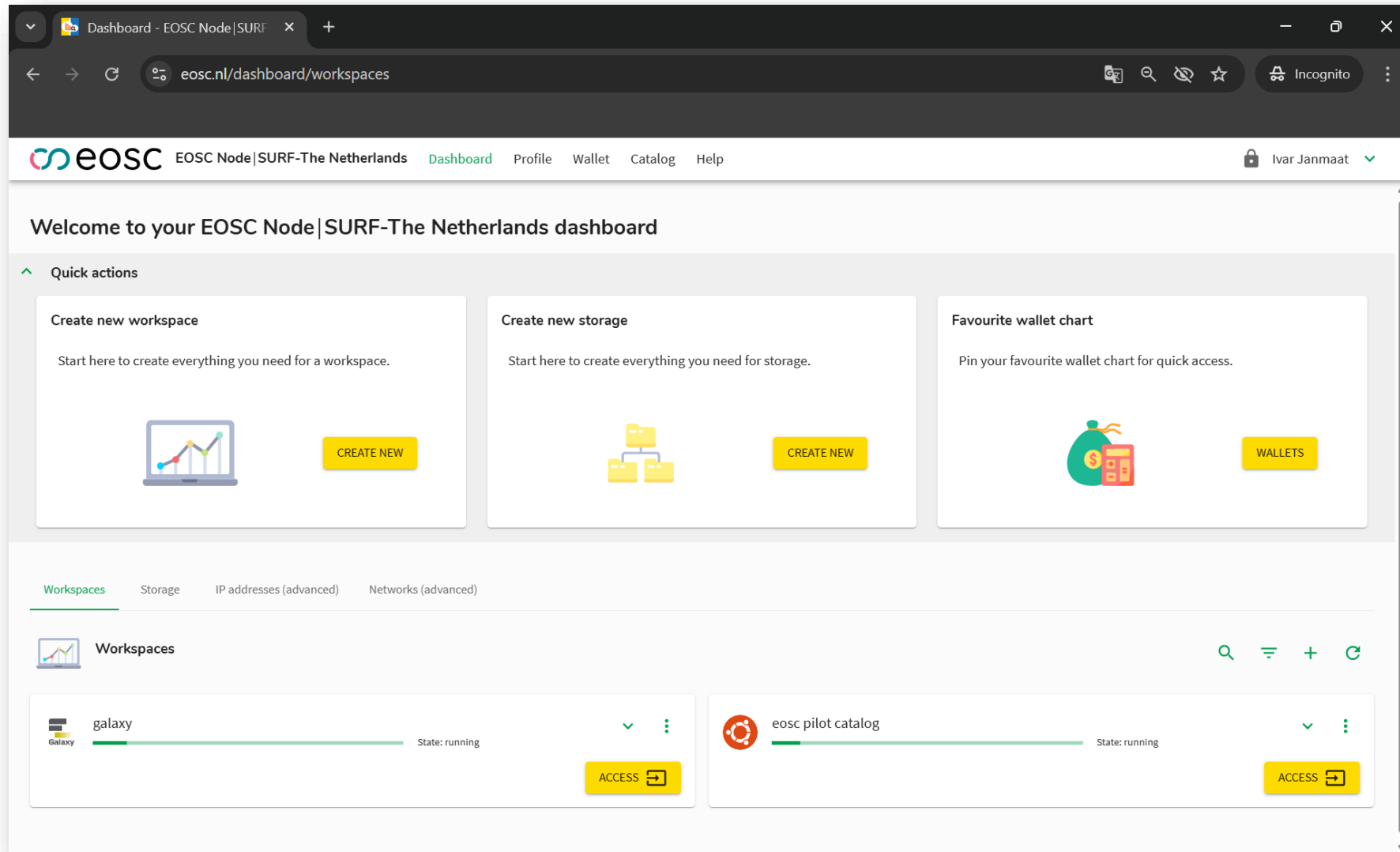
- Virtual Private Network
- Persistent Volume
- Virtual Machine
- Samba Server / Client



- Project membership administration
- Role assignment



EOSC Node: Netherlands (based on SURF Research Cloud)



- SANE being adopted by various other European countries
- SANE will be part of the European Open Science Cloud Netherlands (EOSC-NL)
- EOSC ENTRUST: a blueprint design for a federated network of Trusted Research Environments



SANE deployments and explorations

Immutable Audit Trails: Chronological logs must automatically record who accessed a system, what action or change occurred, when it happened, where (device or system), and why (the reason for the change). These logs cannot be obscured, overwritten, or deleted.

Q&A

