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- **Lead** of the “Human Data” strategic pillar, ELIXIR CZ
- **PI** building OmiCZ, the omics data infrastructure of the EOSC CZ Node

OmiCZ: where EOSC and ELIXIR converge for sensitive genomics data



The hard part: sharing sensitive genomic data

Genomic data is the most sensitive data we hold. It identifies you, and your relatives.

The challenge

Sharing raw genomic data is highly problematic: privacy, consent and misuse. And your genome implicates your whole family. A very hard sell.

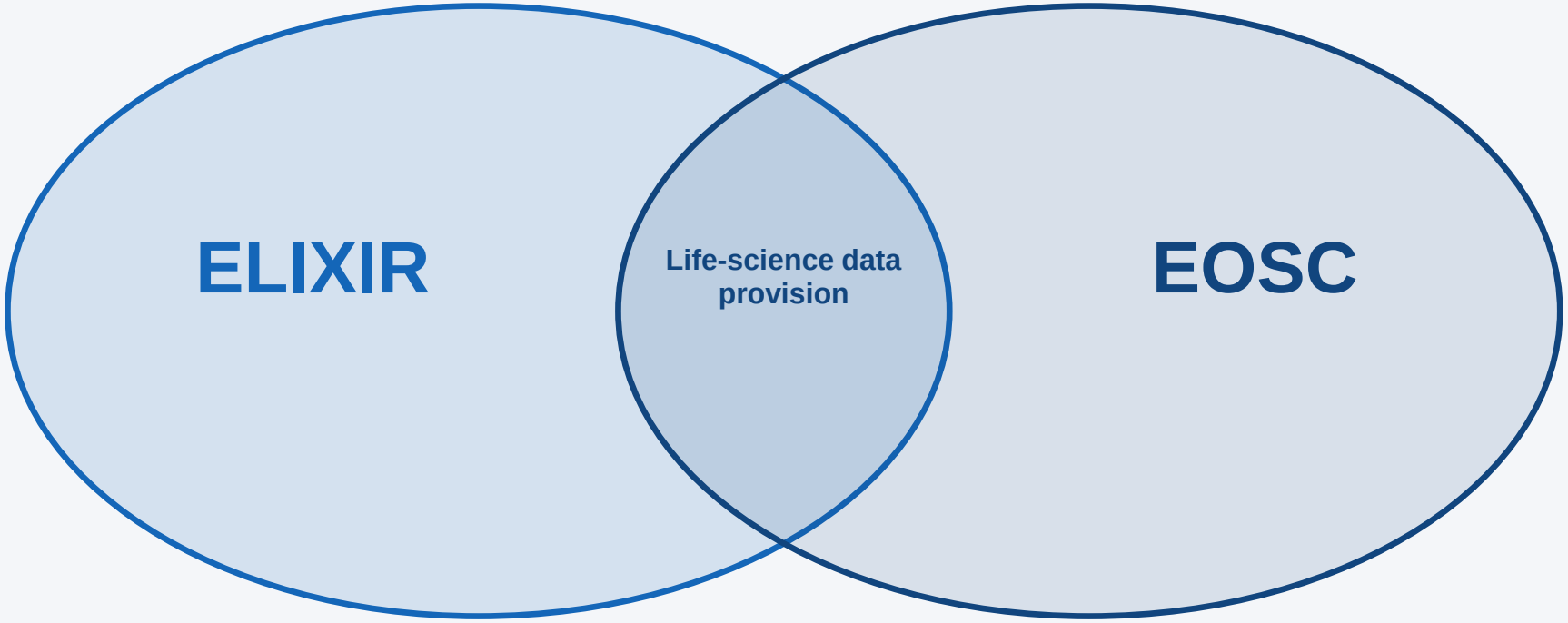
Our approach

Share knowledge, not raw data. Keep the data in Trusted Research Environments and bring the analysis to the data.

Two European infrastructures are built to make this possible:

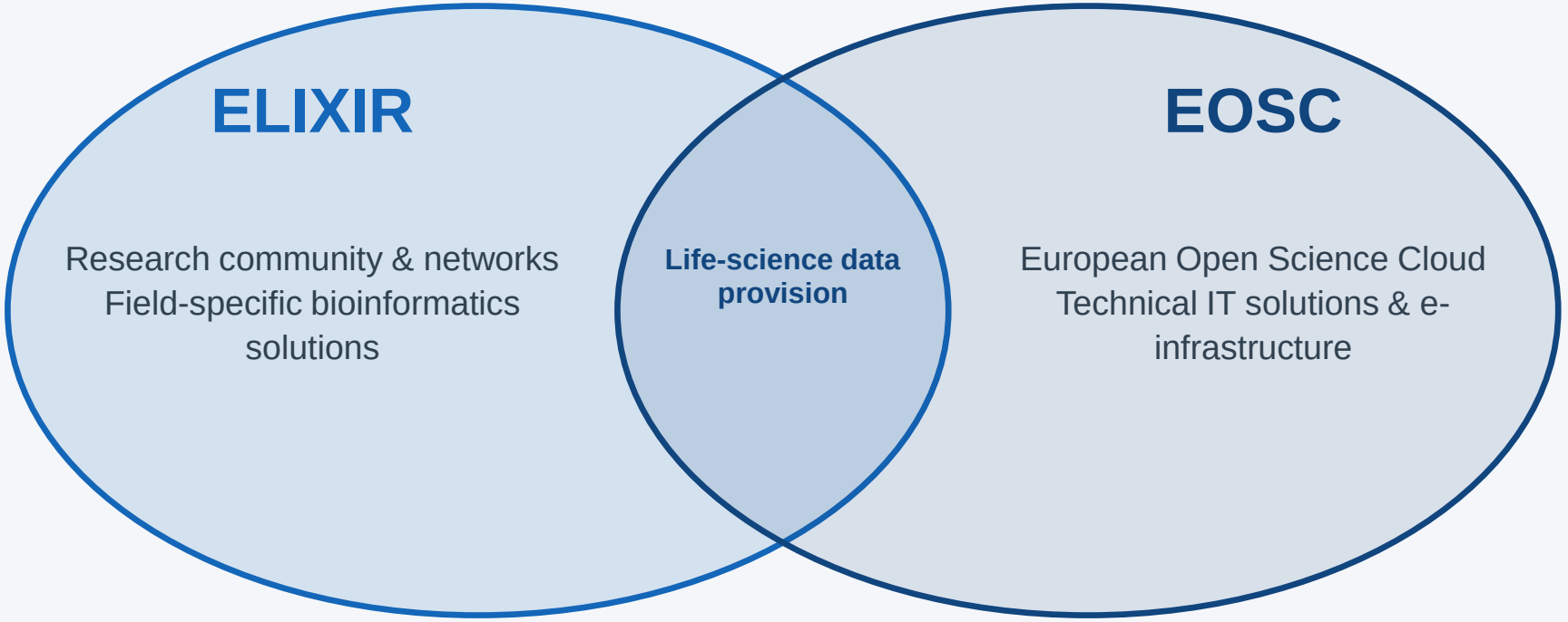
ELIXIR **EOSC**

Two infrastructures, overlapping missions



Both exist to provide data for life science. That shared space is where they overlap, and sometimes rub.

Complementary roles, one goal



ELIXIR brings the research community and the domain-specific solutions.

EOSC provides the technical infrastructure and identity layer underneath.

How OmiCZ connects them

Rooted in ELIXIR
community, standards & domain solutions

Built in the EOSC CZ Node
trusted compute, e-infrastructure & identity



Knowledge travels across Europe; the sensitive data stays home
Federated through GDI · 1+MG · FEGA · Genome of Europe

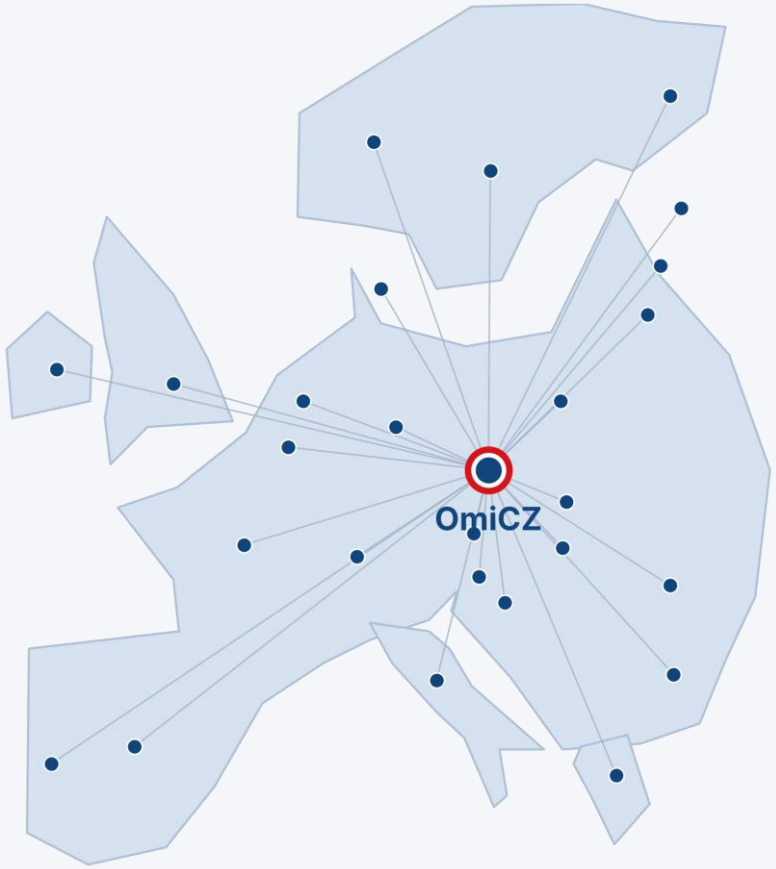
OmiCZ, one node in a European network

Knowledge travels; the data stays home.

On the ELIXIR side

Research & federation projects

- GDI
- FEGA
- 1+MG



On the EOSC side

Infrastructure it provides

- EOSC CZ Node
- ENTRUST

Still to solve: how do we connect this to the **European Health Data Space (EHDS)** and the **AI factories ?**