OSCARS
Open Science Clusters' Action for Research & Society

Life Science Connect - BBMRI nodes
OSCARS AGM Day 3

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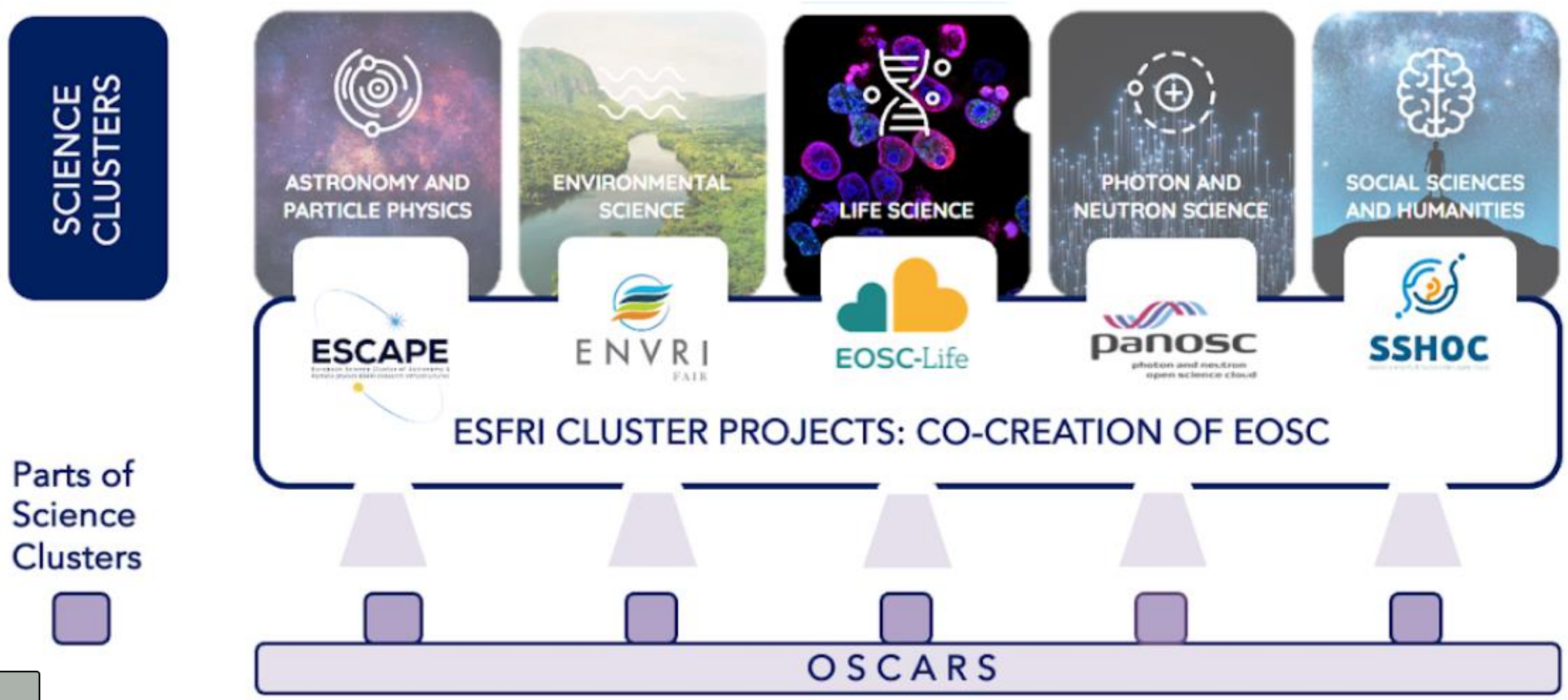
Life Science Research Infrastructures in EOSC: from Services to Sustainable Impact



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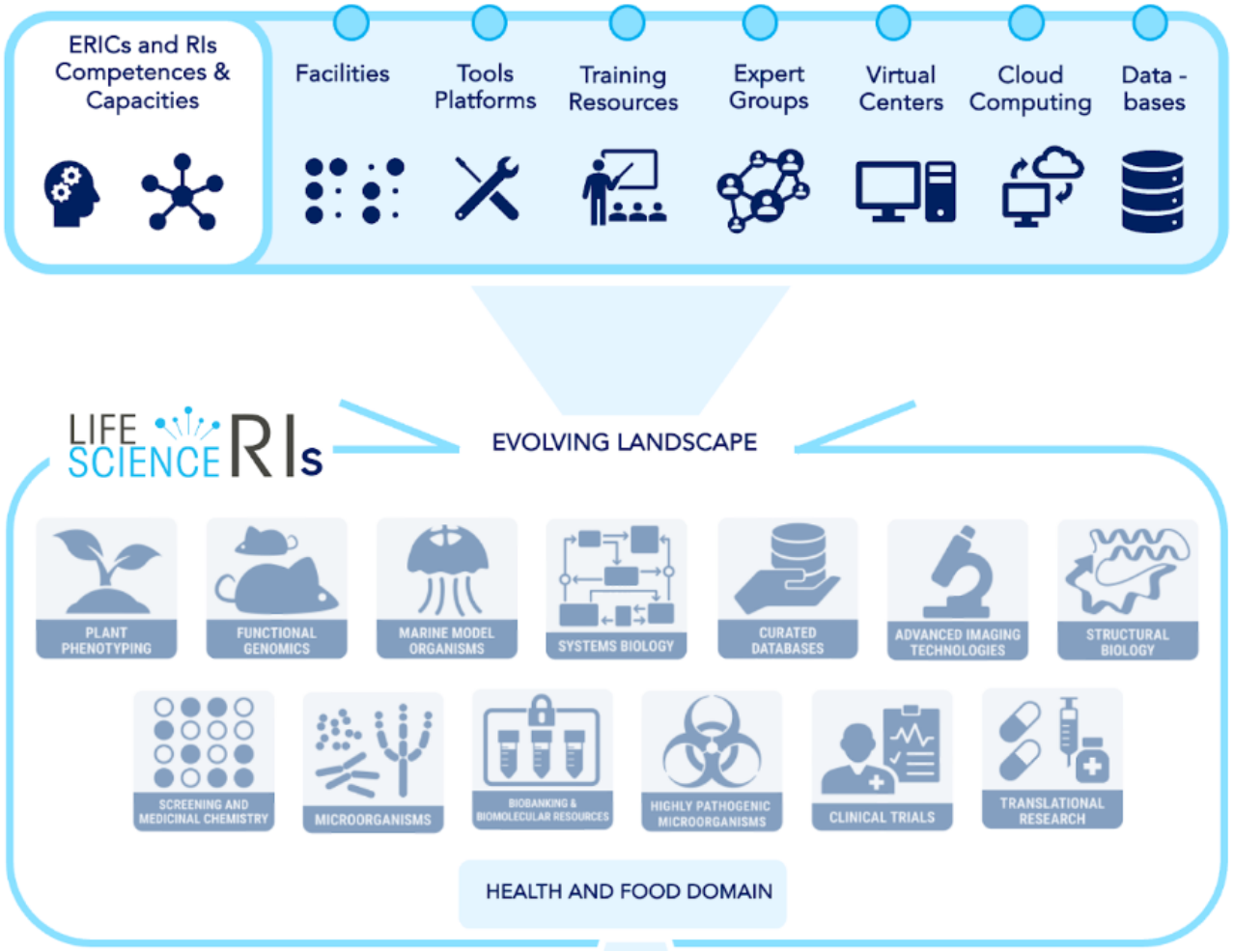
Life Science Research Infrastructures in EOSC: from Services to Sustainable Impact



- 15 ESFRI Life Science RIs covering the full **Health & Food domain**
- Consolidated cross-RI operational collaboration(e.g. EOSC-Life, BY-COVID, ISIDORe…)

CORBEL SHARED SERVICES FOR LIFE-SCIENCE · EOSC-Life · BY-COVID · ISIDORe

- Active contributors to EOSC (interoperability & FAIR data)
- In OSCARS: moving from funded projects → to sustainable service uptake

LS-RI Nodes : Life Science connect & BBMRI

EOSC Node | Life Sciences Connect
Health & Food

Key objective:

To strengthen EOSC with **Life Science data expertise,** to

- enable FAIR-compliant integration of e.g. omics and imaging data.
- deliver Virtual Research Environments, workflows and secured access frameworks.
- support cutting-edge research and innovation.

EOSC Node | BBMRI-ERIC
Health & Food

Key objective:

To integrate **Europe's biobanks and biomolecular resources** into the EOSC Federation.

- provide GDPR-compliant, FAIR access to biosamples, genomic, imaging, and clinical data across ~500 biobanks in 25 countries.
- be the biomedical/sensitive health data EOSC Node, enabling FAIR and secure federated access to data, and cross-border research in alignment with EHDS2.

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LS-RI Nodes : Life Science connect Focus

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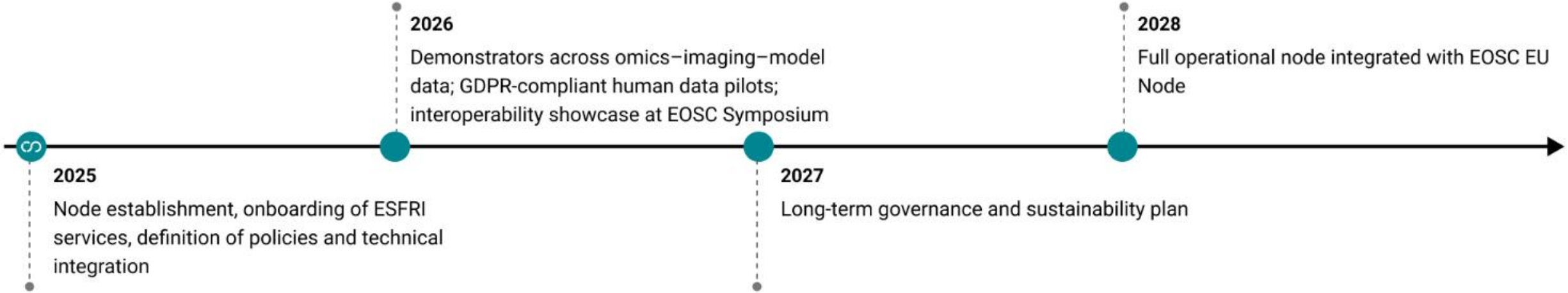
EOSC Node | Life Sciences Connect

Health & Food



Planned:

- **Federated AAI** (Life Science AAI, ELIXIR AAI, integration with EOSC AAI)
- **Onboarded service catalogues** (ELIXIR, Euro-BioImaging, EMBL, Instruct ERIC)
- **Application workflow management** (Galaxy, Jupyter, workflow registries)
- **Service monitoring** (harmonised across infrastructures)
- **Service and research product** accounting
- Order management
- Helpdesk
- Management system (policies aligned with EOSC and ESFRIs)

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Fragalysis Cloud: From Project Output to Sustainable LS Integration

The Challenge

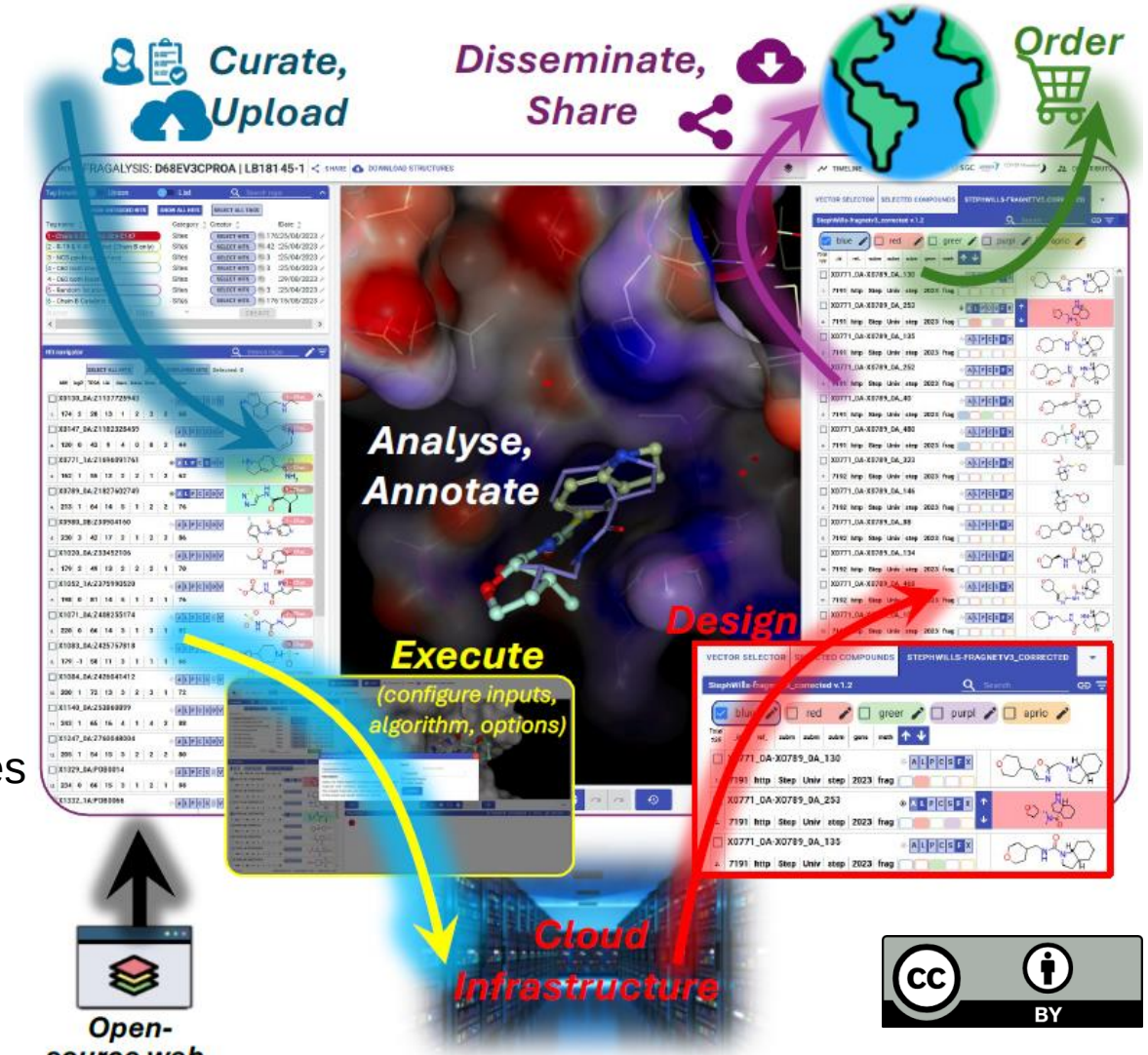
- Fragmented SBDD data
- Separate repositories (PDB, ChEMBL)
- Complex crystallographic formats

The OSCARS Contribution

- FAIR-compliant structural drug discovery platform
- API-based sharing
- Jupyter-based analysis environment

The Sustainability Logic

- Integrated into ELIXIR ecosystem & EOSC-compliant services
- Connected to PDBe (LS Node)
- Standardised deposition workflows
- Supports AI-ready datasets
- Community adoption (OpenBind consortium)



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Thank you