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Open Science Clusters' Action for Research & Society

Funded Project

mTeSS-X: Scaling training portal federation for RIs through Multi-tenanting and Exchange

Principal Investigator: Carole Goble, University of Manchester
Project team members: Oliver Knodel, Finn Bacall, Phil Reed, Munazah Andrabi, Maria Doyle, Hedi Peterson

Implemented by

MANCHESTER 1824
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1632

mTeSS-X — Federating training catalogues for the EOSC

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The **mTeSS-X (Multi-tenanting TeSS eXchange) project** aims to build upon the ELIXIR TeSS platform to address the fragmentation of training resources across Research Infrastructures (RIs) and scientific domains.

OSCARS Funding:

250,000 €

Project Start:

October 2024

Project End:

September 2026

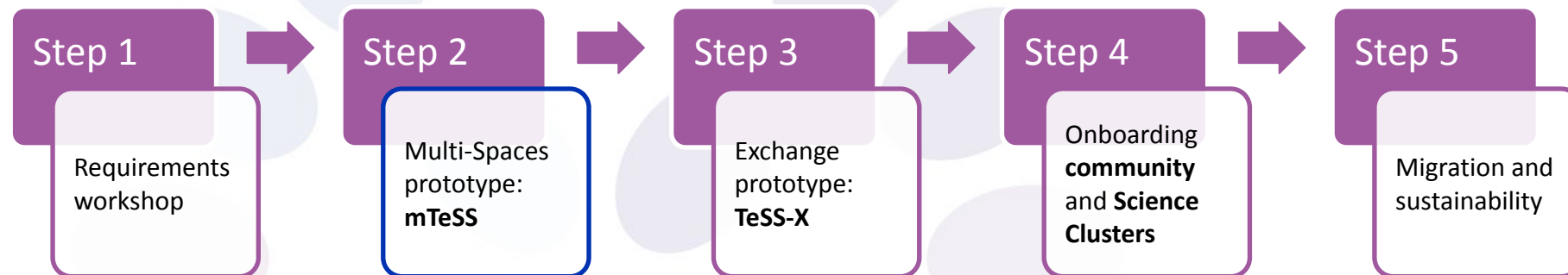## Fields:

Life Science, Photon and Neutron Science

Principal Investigator:

Carole Goble, University of Manchester

Other Researchers involved:

Oliver Knodel, Finn Bacall, Phil Reed, Munazah Andrabi, Maria Doyle, Hedi Peterson

Challenge: RIs and EOSC projects have **limited training catalogue capability** beyond sparse, **outdated lists on web pages**, while cross-portal exchange has been discussed but not practised. **Fragmentation of resources** prevents the reuse of valuable training materials and limits the dissemination.

Step 1	Step 2	Step 3	Step 4	Step 5
Requirements workshop	Multi-Spaces prototype: **mTeSS**	Exchange prototype: **TeSS-X**	Onboarding **community** and **Science Clusters**	Migration and sustainability

Impact: By fostering the **federation of interoperable training catalogues**, mTeSS-X will significantly enhance the findability, accessibility, and reuse of high-quality training resources, **improve the sustainability** of training portals by reducing operational duplication and **enabling resource-sharing** across portals.
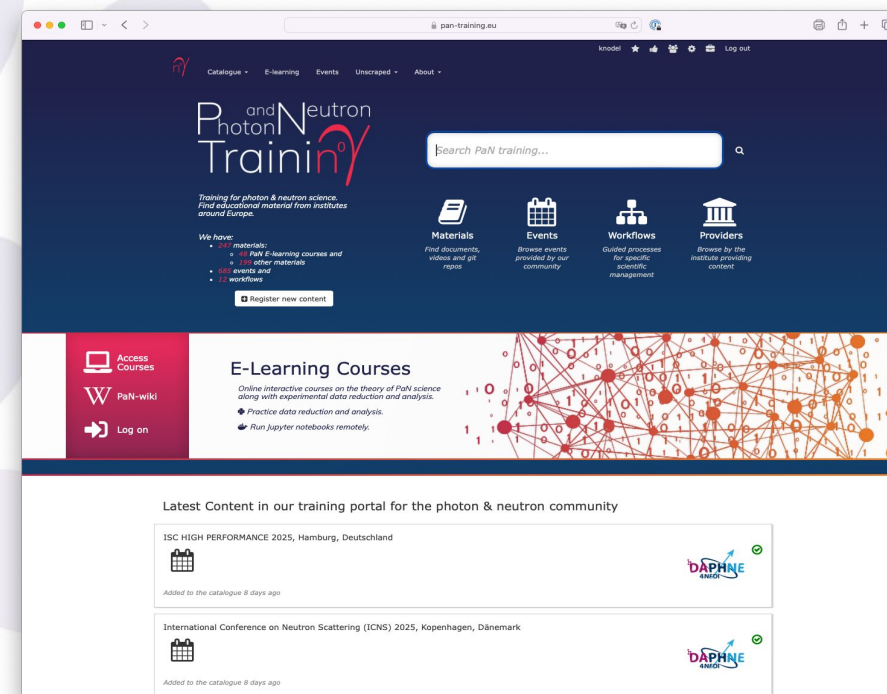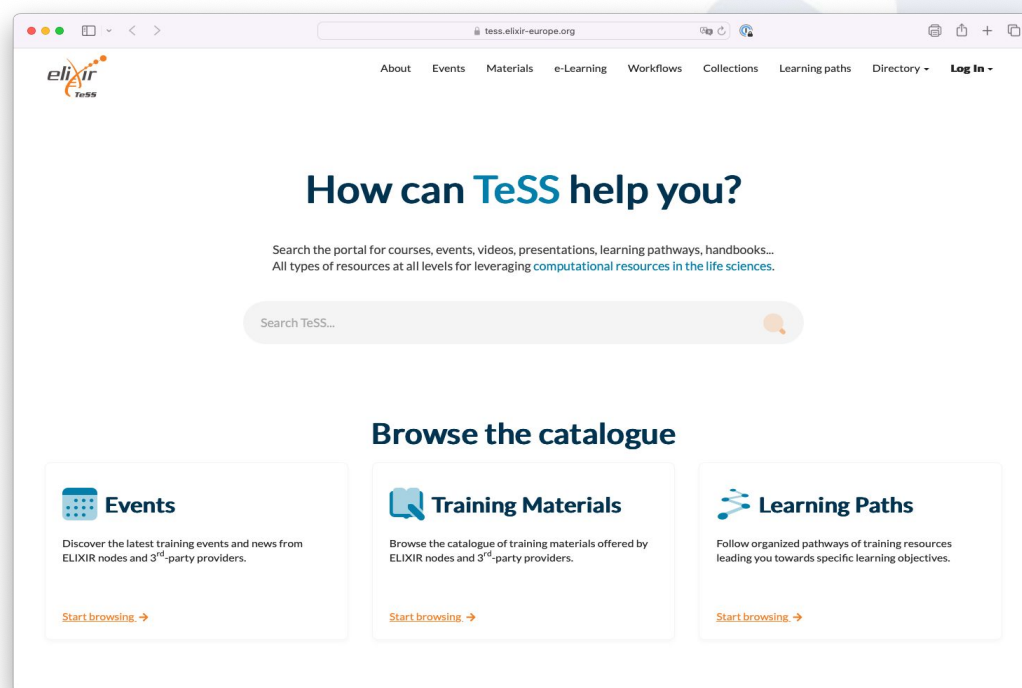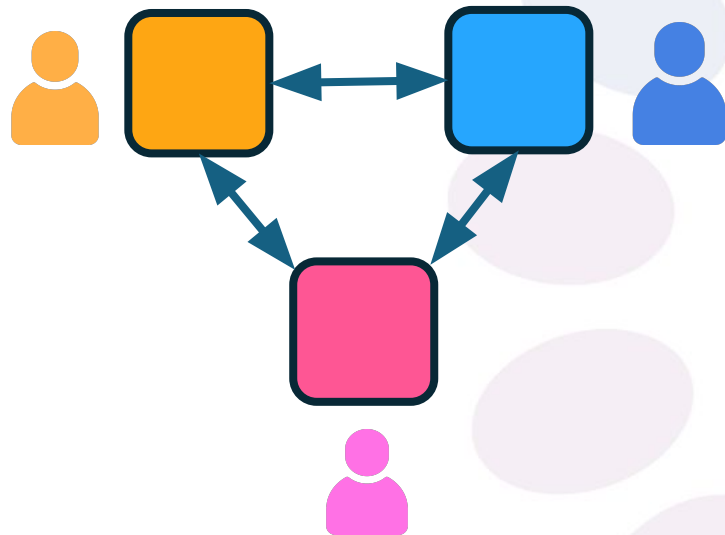
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The open source **training catalogue** platform **TeSS** is currently used in the training portals form **ELIXIR**, **PaN-Training** and many others. These catalogues are currently completely independent and cannot share content between instances.
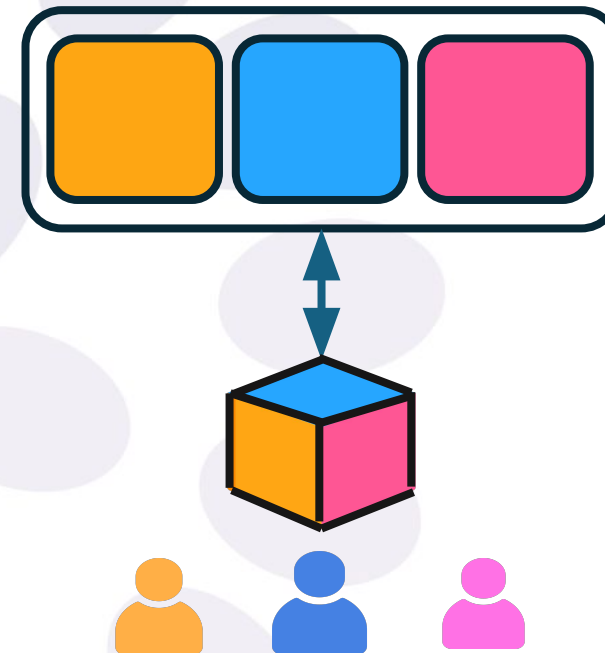
Exchange between catalogues:
The TeSS catalogues are separate instances and **automatically exchange nominated content** through a dedicated interface for metadata harvesting.
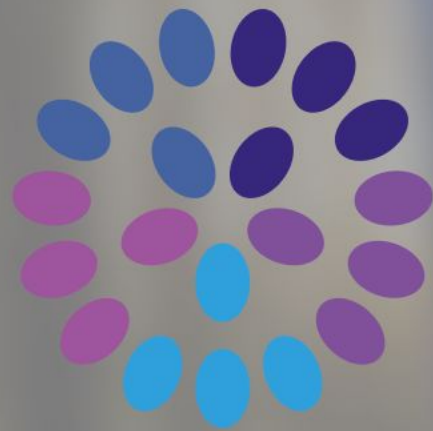
Multi-space catalogue:
The catalogues are pooled into a shared TeSS instance with independent look, content, identity, shared catalogue management and **community-specific selections** of training material are called "**views**" or "**spaces**".

- **mTeSS-X** will significantly enhance the findability, accessibility, and reuse of **high-quality training resources** by the federation of **interoperable training catalogues**.

- The project will improve the sustainability of training portals by **reducing operational duplication** and enabling resource-sharing across portals.

- With the improvements of TeSS and PaN-Training it will be possible to **integrate further science clusters, communities and RIs into common catalogues** of training materials with different community-specific views and interchangeability of content.

- Since **TeSS** and **PaN-Training** are established catalogues that have already successfully survived initial funding, it can be expected that TeSS-x will continue to be used as a sustainable product **for various communities and science clusters**.

- Training consumers will have the availability of a much higher amount of **FAIR training resources across scientific disciplines**.

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Thank you