



# York is now a member of ELIXIR-UK: what does that mean for me?

February 2026

*[elixir-europe.org](https://elixir-europe.org)*

# ELIXIR – what do we do

We build life science informatics capacity and infrastructure in Europe, connect and develop a network of experts and provide hundreds of high quality services and resources available to all



Databases



Training



Software tools



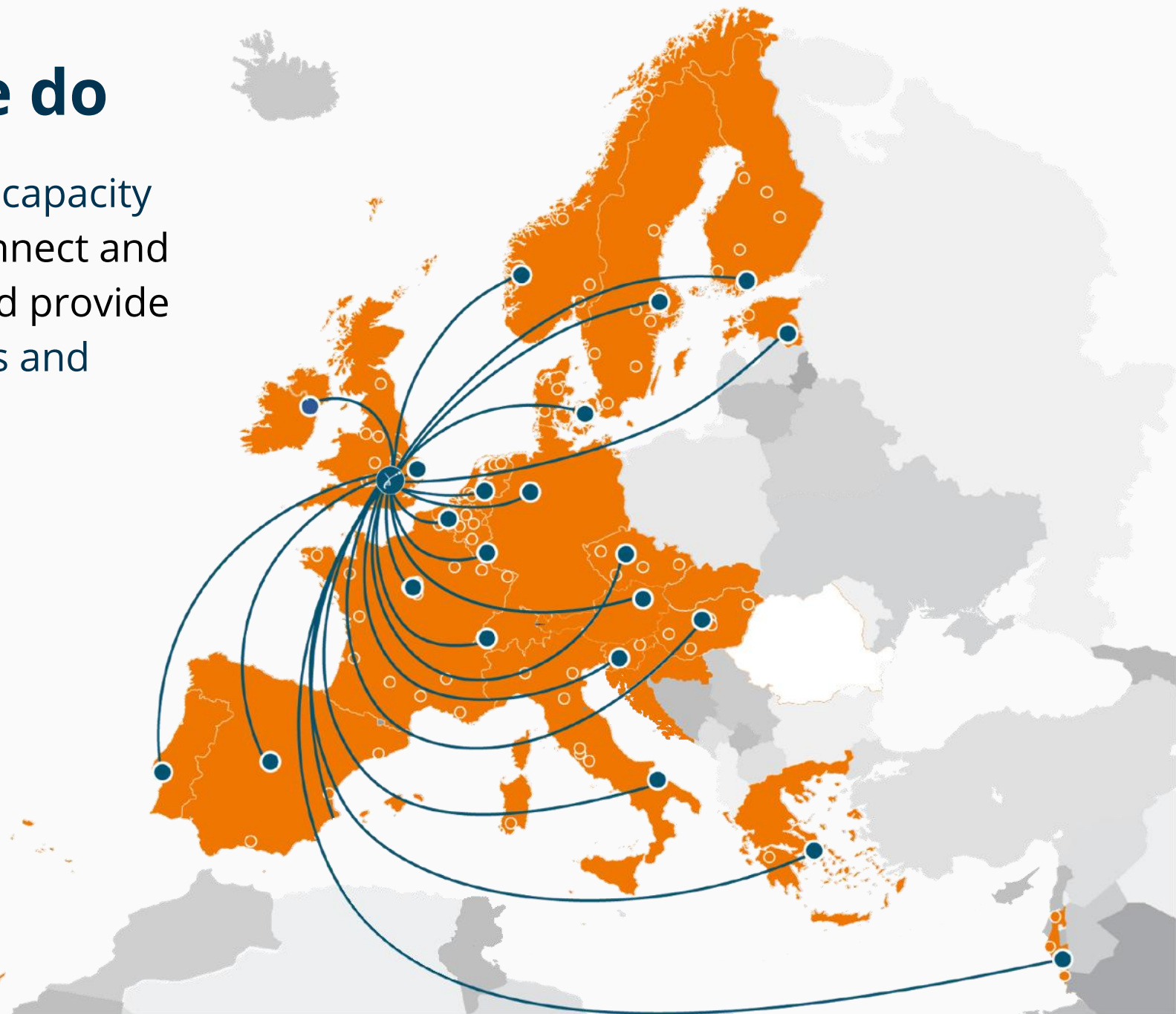
Data standards



Compute resources



Scientific & technical experts



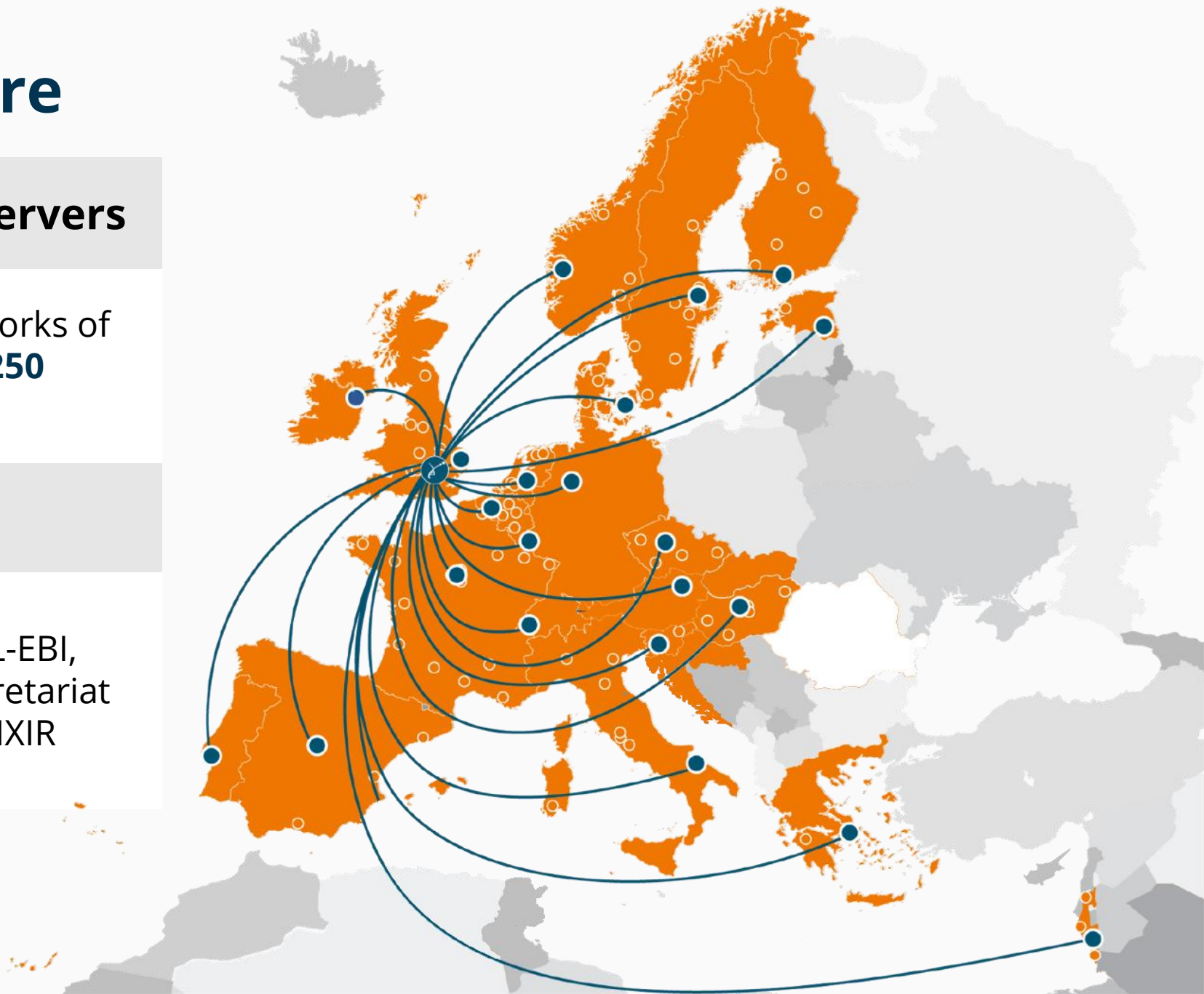
# ELIXIR – who we are

## 23 Members and 2 Observers

ELIXIR Nodes form national networks of excellence, containing a total of **250** institutes/universities

## 1 Hub

The Hub, located alongside EMBL-EBI, Cambridge, UK, provides the secretariat and coordinating activities for ELIXIR



# ELIXIR's Purpose, Identity and Values



## Purpose

Together we accelerate the understanding of life



## Identity

We enable scientists to access and analyse life science data



## Values

1. We work to benefit everyone
2. We are trusted
3. We work with a spirit of openness
4. We strive for excellence
5. We work in an environment of respect

# Why is ELIXIR needed



Managing and sustaining the important biological data, software and digital objects generated across Europe is highly complex, and not a task for a single country or institution



Long-term transnational coordination is required to align funding submissions to ensure the longevity of bioinformatics resources



ELIXIR provides the coordination to connect national life sciences data infrastructures into a single infrastructure that supports data and knowledge exchange and collaborations



National data infrastructures, brought together through ELIXIR Nodes, run hundreds of services and resources available free of charge to the worldwide life science community



# How we work

ELIXIR brings together **groups of experts** from different **technological areas, scientific domains** and **ELIXIR Nodes**

Cutting edge **internal projects** are funded to further encourage collaborations

**Technical and training coordinators** based in the Nodes support different groups of experts to work together

## Platforms



The five ELIXIR Platforms develop and coordinate cross-domain services across ELIXIR.

## Communities



ELIXIR Communities work in a particular life science domain and give feedback on the Platform services.

## Focus Groups



Focus Groups are informal groups that look at emerging areas of interest in life science. Most are open to non-ELIXIR members.

## Internal projects



Internal projects fund the Platforms and Communities to develop resources, and encourage collaboration across the Nodes.

## Coordinators



Technical and Training Coordinators advise the Platforms and promote collaboration between the Platforms and the Nodes.

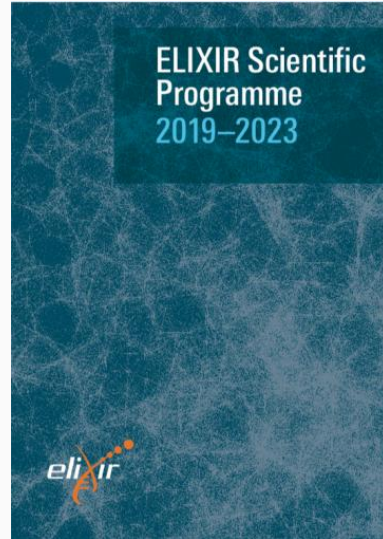


# Evolution of ELIXIR's Scientific Programmes



**2014-2018**

EUR ~18 million



**2019-2023**

EUR ~36 million



**2024-2028**

EUR ~41 million

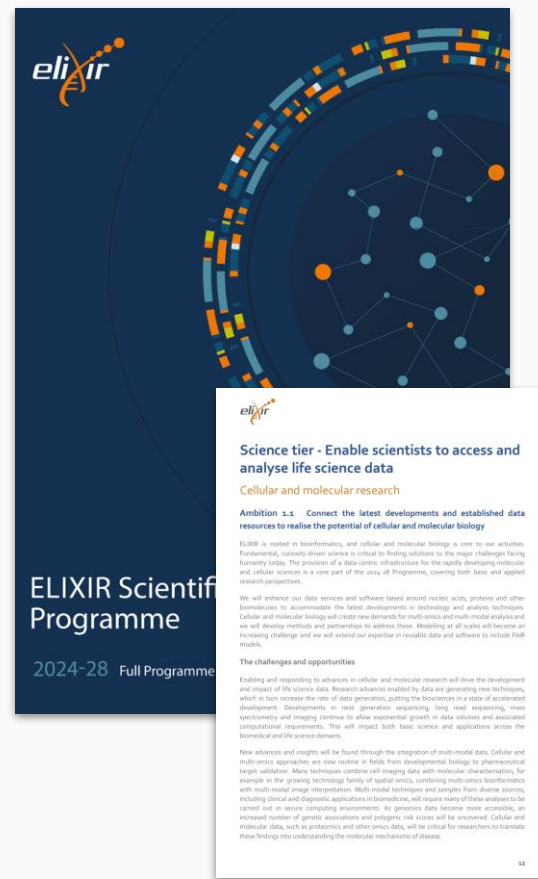


# Where to find out more

Summary brochure (print & [online](#))

Full Programme ([online](#))

Ambitions & Outcomes ([online](#))



**Science tier - Enable scientists to access and analyse life science data**  
**Cellular and molecular research**

**Ambition 1.1 Connect the latest developments and established data resources to realise the potential of cellular and molecular biology**

ELIXIR is rooted in bioinformatics, cellular and molecular biology is core to our activities. Fundamental, curiosity-driven science is critical to finding solutions to the major challenges facing humanity today. The provision of a data-centric infrastructure for the rapidly developing molecular and cellular sciences is a core part of the 2024-28 Programme, covering both basic and applied research perspectives.

We will enhance our data services and software based around nuclei, cells, proteins and other biomolecules to accommodate the latest developments in technology and analysis techniques. Cellular and molecular biology will create new demands for multi-omics and multi-modal analysis and we will develop methods and partnerships to address these. Modelling at all scales will become an increasing challenge and we will extend our expertise in reusable data and software to include FAIR biomarkers.

**The challenges and opportunities**

Enabling and responding to advances in cellular and molecular research will drive the development and impact of life science data. Research advances enabled by data are generating new techniques, which in turn increase the rate of data generation, putting the biosciences in a state of accelerated development. Developments in next generation sequencing, long read sequencing, mass spectrometry and imaging continue to allow exponential growth in data volumes and associated computational requirements. This will impact both basic science and applications across the bioscience and life science domains.

New advances and insights will be found through the integration of multi-modal data. Cellular and multi-omics approaches are now routine in fields from developmental biology to pharmaceutical target validation. Many techniques combine cell imaging data with molecular characterisation, for example in the growing technology family of spatial omics, combining multi-omics bioinformatics with multi-modal image interpretation. Multi-modal techniques and samples from disease severity, including clinical and diagnostic applications in biomedicine, will require many of these analyses to be carried out in secure computing environments. As genomics data become more accessible, an increased number of genetic associations and potential risk scores will be uncovered. Cellular and molecular data, such as proteomics and other omics data, will be critical for researchers to translate these findings into understanding the molecular mechanisms of disease.

**Tier 3 - Nodes: Equip ELIXIR Nodes for successful long-term operations**

**Node operations**

3.1 Nodes have the operational capabilities to contribute to a European infrastructure for data

- Nodes have in place appropriate governance structures and successful procedures for effective coordination and operations
- ELIXIR enables knowledge sharing between Nodes and establishes an implementation toolkit for validation of good practice
- Nodes have effective communication channels with national partners and relevant stakeholders

**National research and open science policy alignment**

3.2 Nodes are aligned with national research priorities and open science policies

- National funders recognise ELIXIR Nodes as key components of the data infrastructure when funding major research initiatives
- National funders increasingly reference ELIXIR resources in open science policies and guidelines

**Integrating Nodes with industry and innovation**

3.3 Nodes are fundamental to national industry ecosystems and engage in EU-wide industry efforts

- Industry, particularly small and medium-sized enterprises, benefits from the services, technologies and expertise of ELIXIR Nodes
- ELIXIR Nodes and industry collaborate and innovate to form mutually beneficial ecosystems
- ELIXIR develops a portfolio of case studies communicating the value to industry of public-private multi-stakeholder infrastructures
- ELIXIR engages in key EU-level industry initiatives, providing solutions based on ELIXIR supported standards

**Demonstrating impact and supporting sustainability**

3.4 Nodes are empowered and supported in their efforts towards long-term sustainability

- Nodes staff are equipped with the skills and knowledge to confidently demonstrate the performance and impact of their work to national and international funders and policymakers

[News release](#)



# ELIXIR 2024-28 Programme

## Tiers



SCIENCE



TECHNOLOGY



NODES



PEOPLE

## Strategic Priorities



Cellular and  
molecular research



Biodiversity, food  
security and pathogens



Human data and  
translational research



Research data  
management and  
knowledge sharing



Reproducible analytics  
and infrastructure



Federated  
service delivery



Node operations



National research  
and open science  
policy alignment



Integrating Nodes  
with industry and  
innovation



Demonstrating impact  
and supporting  
sustainability



Users of ELIXIR  
services



Management and  
operational staff



Technical and  
scientific staff



A diverse people  
network

# Opportunities for engagement

## Platforms

Cross-domain, focused on one aspect of service delivery



## Communities

Domain or technology specific



## Focus groups

Topic specific, open to all



## Service collections

Core Data Resources  
ELIXIR Deposition Databases  
Recommended Interoperability Resources



# ELIXIR Platforms

**Platforms** bring together experts from Nodes to develop ELIXIR's technical vision and coordinate activities in defined technical areas. There are five Platforms:

**Compute** Builds and integrates **cloud, compute, storage and access services** for the life-science research community

**Data** Drives the use, re-use and value of life science data by providing **robust, long-term sustainable data resources** within a coordinated, scalable and connected data ecosystem

**Tools** Helps communities **find, register and benchmark** software tools; maintains information standards and produces, adopts and promotes **best practices for tool development**

**Interoperability** Helps people and machines to **discover, access, integrate and analyse biological data**; encourages the life science community to adopt **standardised file formats, metadata & vocabularies**

**Training** Strengthens **national training** programmes; grows bioinformatics and research data management **training capacity and competence across Europe**; empowers researchers to use ELIXIR's resources



# ELIXIR research data management resources

Guidance for data stewards, project managers and researchers

Overview of good data management practices



The Research Data Management Kit (RDMkit) guides you through the whole data management life cycle and includes advice specific to your domain, your role and your country.

Step-by-step instructions



The FAIR Cookbook contains step-by-step recipes to accomplish specific data management tasks and to make your data FAIR (Findable, Accessible, Interoperable, Reusable).

Data management plan wizard



The Data Stewardship Wizard (DSW) is an online tool that guides researchers and data stewards through their data management planning.

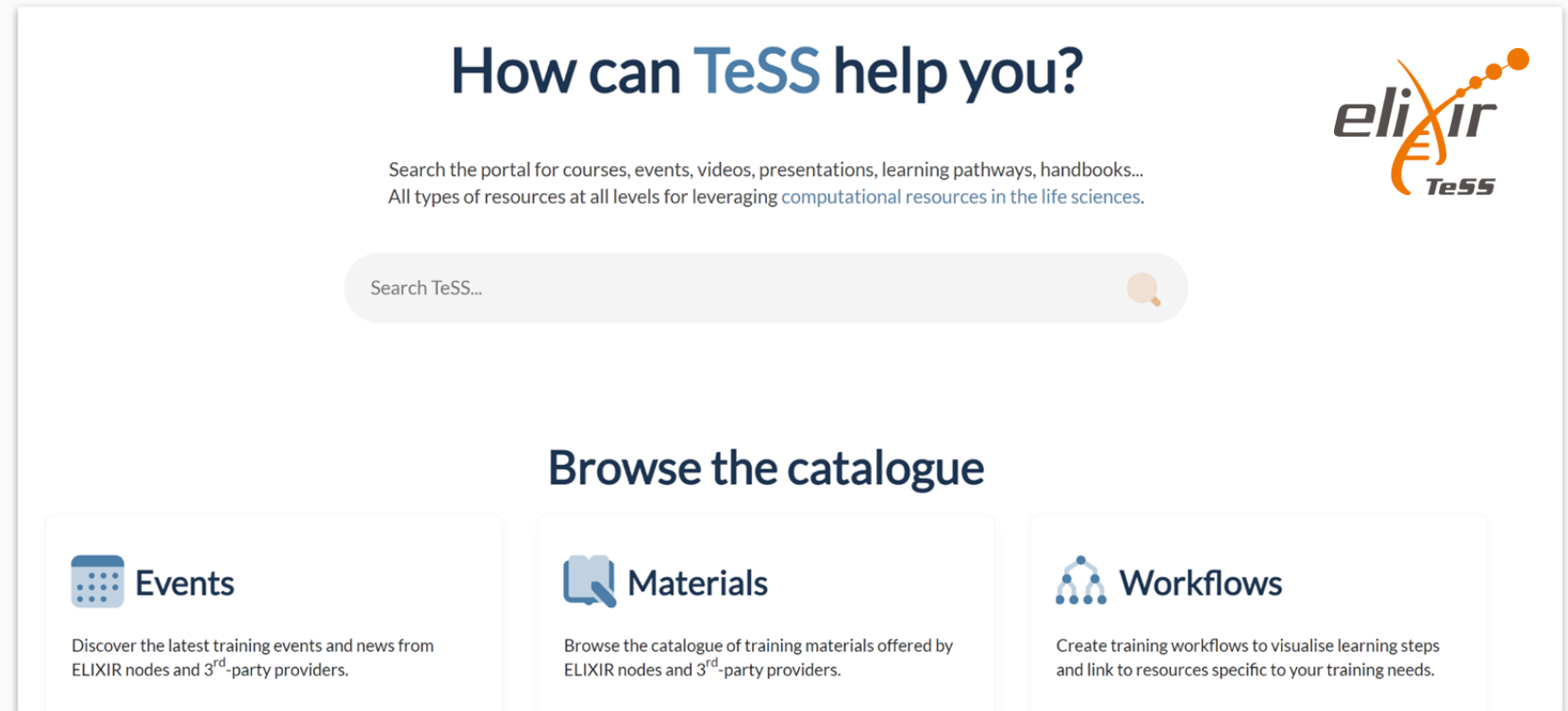
# ELIXIR's Training Portal – TeSS (Training eSupport System)

**Single entry point** for trainers and trainees to discover online information and content

Lists **>1980 training materials** and **>165 events**, plus collections and learning paths

**Training material** collected from **67 content providers**

**Event information** collected from **73 content providers**




**How can TeSS help you?**

Search the portal for courses, events, videos, presentations, learning pathways, handbooks...  
All types of resources at all levels for leveraging computational resources in the life sciences.

Search TeSS...

**Browse the catalogue**

- Events**  
Discover the latest training events and news from ELIXIR nodes and 3<sup>rd</sup>-party providers.
- Materials**  
Browse the catalogue of training materials offered by ELIXIR nodes and 3<sup>rd</sup>-party providers.
- Workflows**  
Create training workflows to visualise learning steps and link to resources specific to your training needs.



Niall Beard, Finn Bacall, Aleksandra Nenadic, Milo Thurston, Carole A Goble, Susanna-Assunta Sansone, Teresa K Attwood  
**TeSS: a platform for discovering life-science training opportunities**, *Bioinformatics*, Volume 36, Issue 10, 15 May 2020, Pp 3290-3291

<https://doi.org/10.1093/bioinformatics/btaa047>



# Train-the-trainer (TtT)

398 trainers trained since ELIXIR started in over 32 TtT courses

ELIXIR TtT instructor community (~20 active members)

Training materials developed to deliver courses face-to-face, hybrid and online (synchronously)

Professional guidelines available for trainers

*A Professional Guide to Course Design*

## Course design Considerations for trainers

### Overview

This Professional Guide introduces a structured approach to course design, highlighting the importance of articulating learning outcomes commensurate with the cognitive complexity of the target learning, prior to devising learning experiences and course content. The specific focus here is on face-to-face activities, but the guidance is also relevant for those designing online courses.


### Teaching Goals & Learning Outcomes

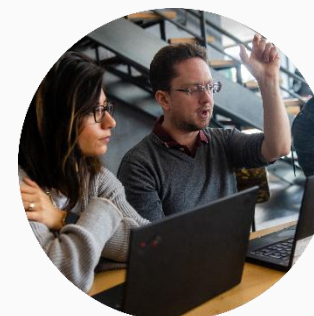
This Guide outlines a series of steps that can help trainers to devise and deploy effective courses. On reading this Guide, and engaging with the reflective exercises, you will be able to:

- *list* five key phases of curriculum & course development;
- *explain* the primary role of learning outcomes;
- *write* learning outcomes for a course;
- *identify* the Bloom's-level accomplishments that different types of learning experience are likely to support;

TECHNICAL REPORT

## Course design: Considerations for trainers – a Professional Guide

Allegra Via<sup>1</sup>, Patricia M. Palagi<sup>2</sup>, Jessica M. Lindvall<sup>3</sup>, Rochelle E. Tractenberg<sup>4</sup>,  Teresa K. Attwood<sup>5</sup>  
The GOBLET Foundation



# ELIXIR flagship events

## BioHackathon Europe

- Bringing together bioinformaticians for **five days of hacking**
- **Seven successful annual events** since 2018
- Projects to advance **open source infrastructure** for data integration to accelerate scientific innovation
- Supporting operations across ELIXIR Platforms, Communities and Focus Groups through technology implementations (e.g. **FAIR, identifiers, metadata standards, ontologies and metadata catalogues**)



## Innovation and SME Forums

- Approximately **two one-day** events per year
- Providing **Small to Medium Sized Enterprises** (SMEs) the opportunity to present their innovative ideas
- Enabling companies to learn more about **current and emerging ELIXIR services**
- Forging strong links with the **local ELIXIR Node representatives** running ELIXIR services



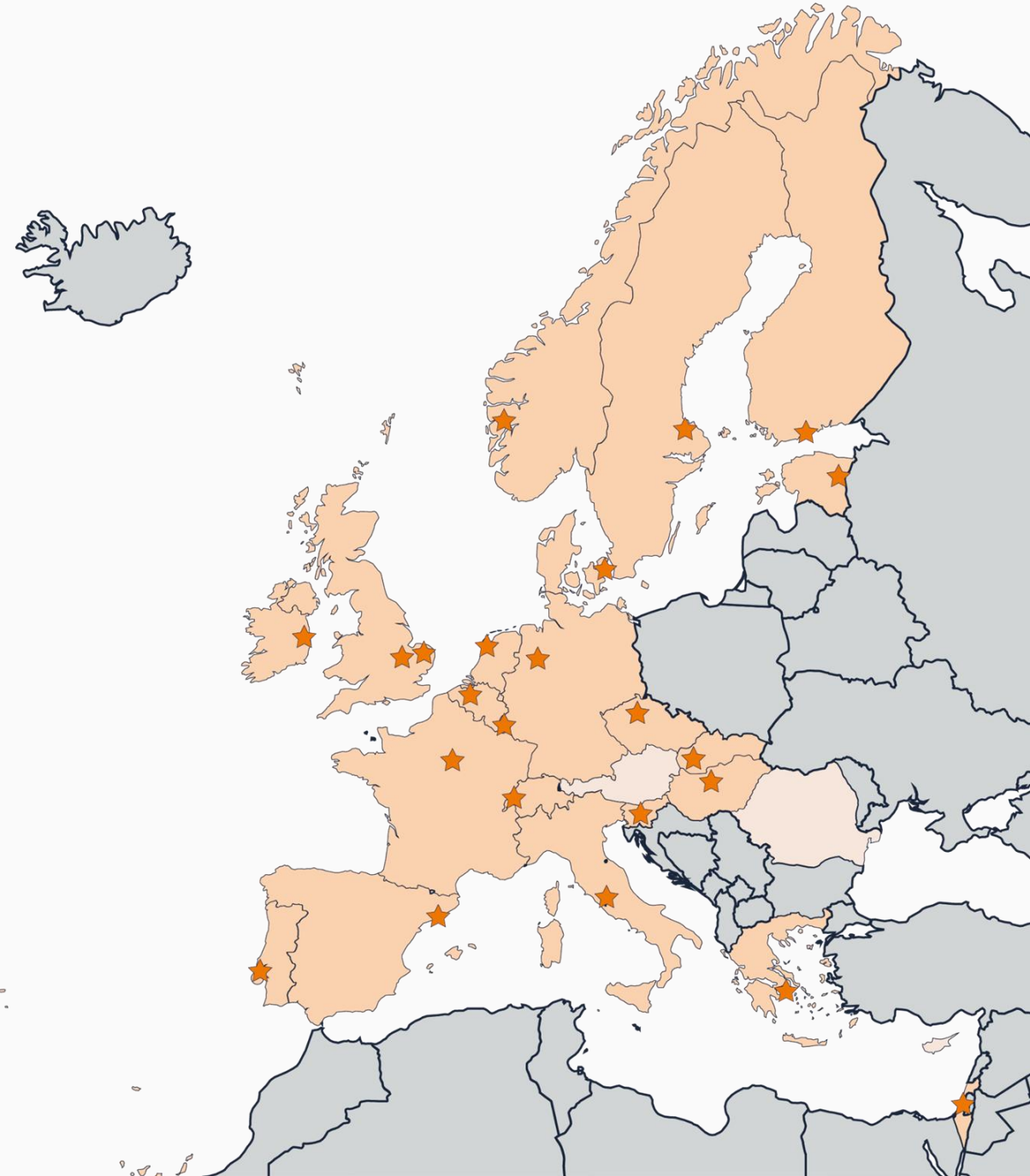
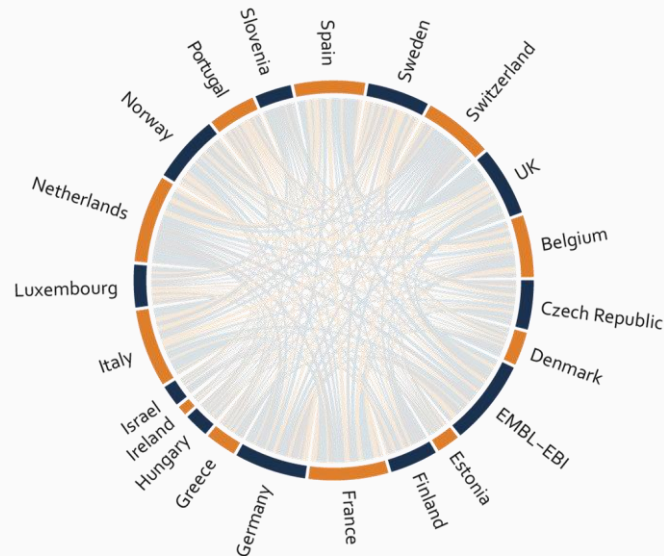
## ELIXIR Bioinformatics Industry Forum (EBIF)

- **One-day** annual event
- Discussions with industry experts around **visionary ideas, bottlenecks and solutions** to major challenges in the data-driven life science sector
- A forum for **knowledge exchange and collaboration** in the pre-competitive space
- **Networking** opportunities with bioinformatics opinion leaders, academic experts in ELIXIR and the commercial sector



# ELIXIR Nodes

- **ELIXIR's 22 Nodes** are the national infrastructures in each of ELIXIR's member countries
- Nodes bring together **centres of excellence** in bioinformatics within a member country
- Nodes **run the services** within ELIXIR
- **Nodes are connected** in many ways, for example through Communities, Platforms and internal ELIXIR projects



# ELIXIR-UK: the UK

Everyone at a member organisation is a member. The key is in how active you are and how much you get back from the membership



1. Cardiff University
2. Earlham institute (lead) (Joint Head of Node)
3. HDR-UK
4. Heriot Watt University
5. Imperial College London
6. King's College London
7. Newcastle University
8. Open Life Science (OLS)
9. Quadram Institute Bioscience (QIB)
10. Queen Mary University of London
11. Rothamsted Research
12. Swansea University
13. The Open University
14. The Pirbright Institute
15. UK Centre for Ecology & Hydrology
16. University College London
17. University of Birmingham
18. University of Bradford
19. University of Cambridge
20. University of Dundee
21. University of East Anglia
22. University of Edinburgh, the Roslin Institute
23. University of Exeter
24. University of Leicester
25. University of Liverpool
26. University of Manchester (Joint Head of Node)
27. University of Nottingham
28. University of Oxford
29. University of Warwick (new)
30. **University of York** (newer than new)

# Heads of Node and Coordination Office

## Joint Heads of Node



Prof  
**Carole Goble**  
University of Manchester



Prof  
**Neil Hall**  
Earlham Institute

## Coordination office at Earlham Institute



Dr  
**Ariadna Miquel Clopés**  
Earlham Institute



Dr  
**Nicola Soranzo**  
Earlham Institute



**Xènia Pérez Sitjà**  
Earlham Institute

# ELIXIR-UK: UK Products and Services

FAIRDOM



FAIRassist.org

PomBase



Phyre<sup>2</sup>

PSIPRED

PHI- Pathogen  
base Host  
Interactions

e!Ensembl



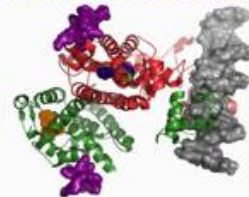
Missense3D

FAIRsharing.org



edinburgh  
genomics.

IUPHAR/BPS  
Guide to  
PHARMACOLOGY



FAIR  
COOK  
BOOK

InterMine

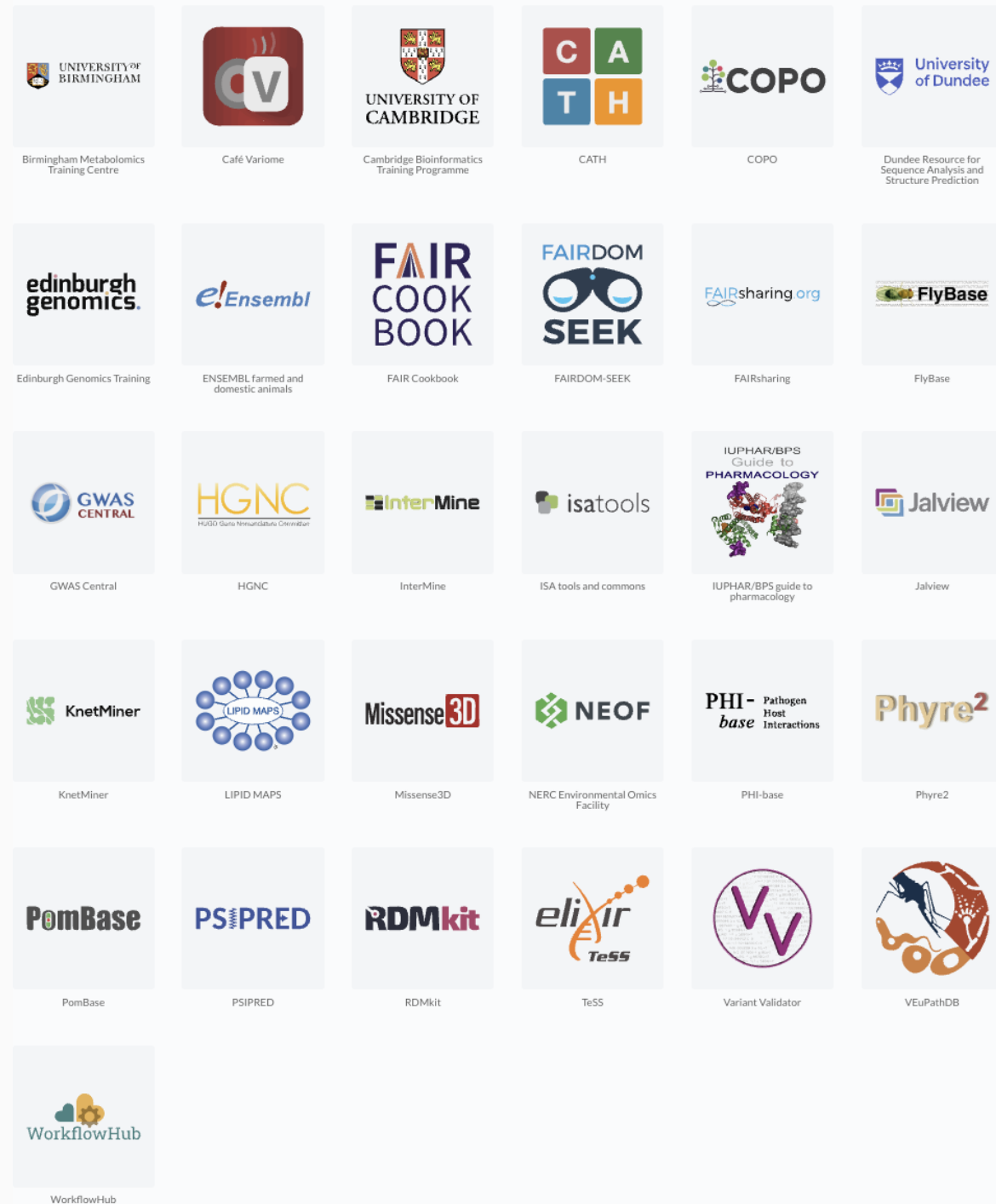
HGNC  
HUGO Gene Nomenclature Committee



# We are distributed

# We reuse by default and invent only on demand.

We connect what already exists and amplify it. The services and knowledge are owned by our members



# Our strengths in ELIXIR-UK

## FAIR principles

Leading voices.  
RDMkit, FAIR  
Cookbook, FAIRsharing

## Data stewardship

A fellowship  
programme,  
leadership in the RDM  
community of ELIXIR

## Workflows

WorkflowHub, Galaxy,  
RO-Crate, Bioschemas,  
EDAM



## Training

TeSS registry, plus  
experts in training  
development and  
delivery

## Human data

TREs, sensitive data,  
together with HDR UK  
as a Node member

## Communities of practice

We foster national  
communities in our  
key areas of expertise

# Our strengths in ELIXIR-UK

At European level

At national level

Platforms	Interoperability	Tools	Training	Data	Compute	
	3D BioInfo	Single-Cell Omics	Plant Sciences	Microbiome	Microbial Biotech	Metabolomics
Communities	Biodiversity	Toxicology	Federated Human Data	hNCV	Rare Diseases	Cancer Data
	Proteomics	IDP	Systems Biology	RDM	Food & Nutrition	Galaxy
	Environmental Impact	Biocuration	RDA Activities	Pathogen Data	ML/AI	EOSC
Focus Groups	Careers in RI	FAIR Training	Domestic Animals Genome & Phenome	Learning Paths	Health Data	



Training Club



RDM Club



Human Data Club

Open to all

# Networking in the UK: UK Clubs growing success

## RDM



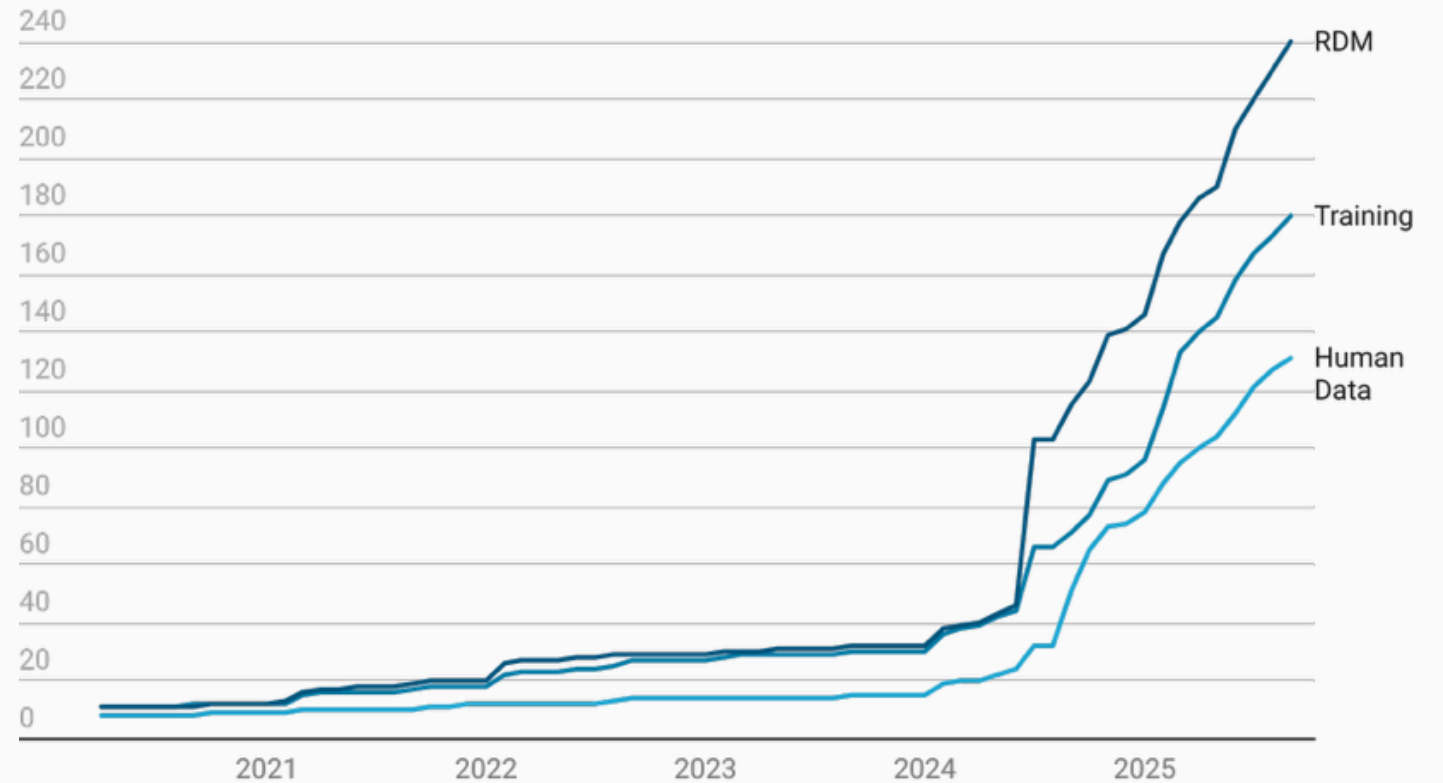
## Training



## Human Data Communities



Cumulative subscribers by group

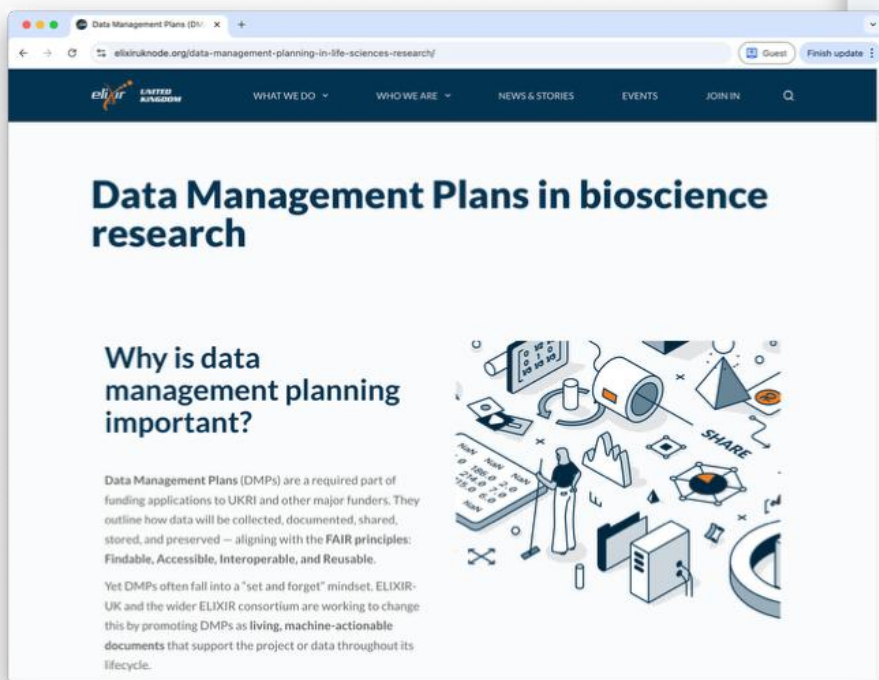


Created with Datawrapper

# Data stewardship and RDM

**Data stewardship** move to centre-stage.

**RDM** interest growing.

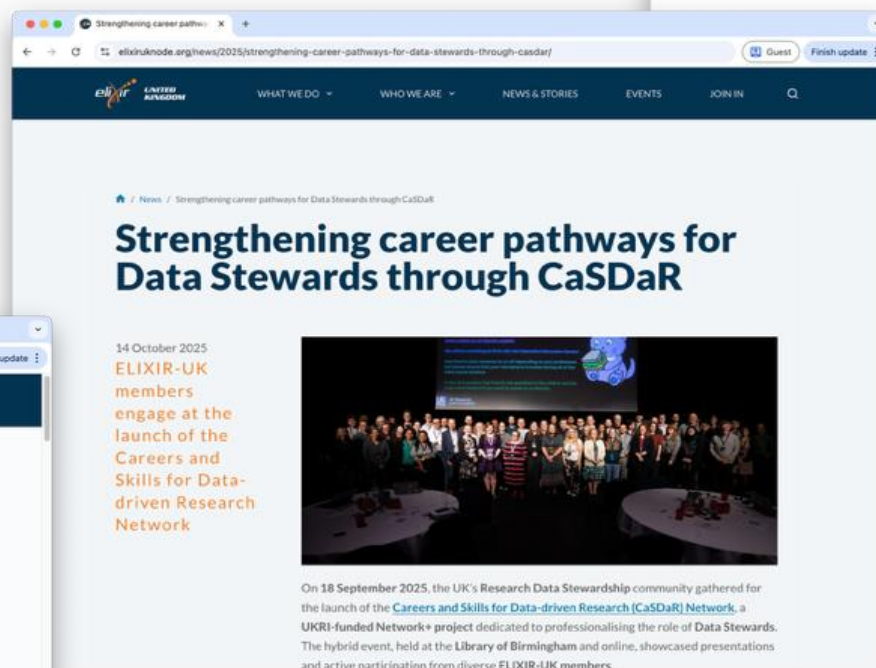



**Data Management Plans in bioscience research**

**Why is data management planning important?**


Data Management Plans (DMPs) are a required part of funding applications to UKRI and other major funders. They outline how data will be collected, documented, shared, stored, and preserved – aligning with the FAIR principles: Findable, Accessible, Interoperable, and Reusable.

Yet DMPs often fall into a “set and forget” mindset. ELIXIR-UK and the wider ELIXIR consortium are working to change this by promoting DMPs as living, machine-actionable documents that support the project or data throughout its lifecycle.




**Strengthening career pathways for Data Stewards through CaSDaR**

14 October 2025  
ELIXIR-UK members engage at the launch of the Careers and Skills for Data-driven Research Network



On 18 September 2025, the UK's Research Data Stewardship community gathered for the launch of the **Careers and Skills for Data-driven Research (CaSDaR) Network**, a UKRI-funded Network+ project dedicated to professionalising the role of Data Stewards. The hybrid event, held at the Library of Birmingham and online, showcased presentations and active participation from diverse ELIXIR-UK members.



**ELIXIR-UK Fellowship**

Embedding RDM know-how into UK universities and institutes with a community of Data Stewardship Ambassadors



Outreach • FAIR data • 12 NOV 2024

**Why share your data**  
Adam Partridge • Allyson Lister



<https://rdmkit.elixir-europe.org/>



# UK Node Hackathons: HDR UK & ELIXIR-UK

United health data and life science professionals for three days of collaboration and problem-solving

2025 was oversubscribed

Plans underway for a bigger Hackathon in 2026



19 February 2025

## Innovation in action: Behind the scenes at the first HDR UK & ELIXIR-UK Joint Hackathon

The first HDR UK & ELIXIR-UK Joint Hackathon brought together technical professionals at the intersection of health data and life sciences for three days of collaboration, creativity, and problem-solving – [...]

# Shared ideas spark collaboration & innovation



Blog

27 June 2025

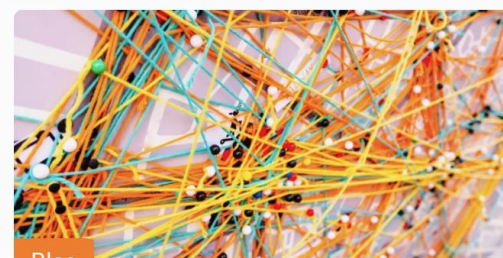
**Customising Data Stewardship Wizard for an Institute**



Blog

1 July 2025

**A day in the life of a UCL Research Data Steward**



Blog

23 December 2024

**Joining up the research data management dots with FAIRsharing**



Blog

27 June 2025

**From Zero to DMP: implementing a localised instance of Data Stewardship Wizard**

How an RSE deployed and configured a local DSW instance at Cardiff University



News

10 September 2025

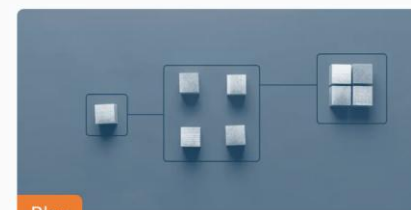
**Closing the bioinformatics skills gap in Europe**



Blog

18 January 2025

**Data and research governance – it's a complex issue**



Blog

10 March 2025

**Bioinformatics Projects Learning Pathway for Students**

# Cross-Node Cooperation and Capacity Building



News

28 July 2025

**ELIXIR-UK members co-host toxicology workshop on FAIR training materials**



News

17 June 2025

**Working together across ELIXIR: UK Node at the 2025 All Hands**



News

18 December 2024

**Manchester hosts two ELIXIR annual meetings on Interoperability and Tools**



News

18 December 2024

**UK contributes to the 2024 ELIXIR RDM Community meeting**

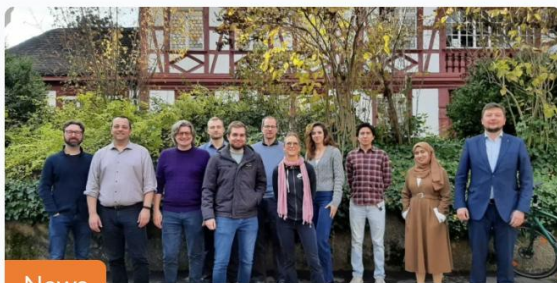


News

7 July 2025

**FAIR workflows for biodiversity – Carole Goble at BEES 2025**

# International Engagement



News

8 May 2025

**Advancing FAIR Data in toxicology: ELIXIR-UK collaborates in international workshops**



News

18 December 2024

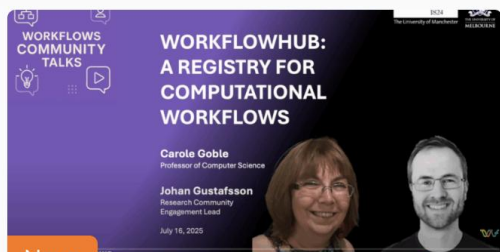
**ELIXIR-UK members at the 2024 RDA Plenary**



News

28 November 2024

**ELIXIR-UK at the EOSC Symposium 2024: advancing FAIR data and interoperability**



News

29 July 2025

**Carole Goble presents WorkflowHub at global Workflow Community Talks**



News

10 September 2025

**ELIXIR-UK showcases RDM expertise at CoRDI 2025 and Base4NFDI User Conference**

Carole Goble represented ELIXIR-UK at CoRDI 2025 and Base4NFDI, highlighting sustainable, FAIR-aligned research data infrastructure and RDM expertise.

# Opportunities for members – long term

## NEW

Flexible funding 2025-2030

- Funding activities, such as workshops, training, community meetings...
- Bursaries to attend conferences and pay registration
- Exchange programme
- Ambassador programme



# Connect and stay up to date



## Bluesky

Follow us on Bluesky for daily updates of upcoming ELIXIR events and ELIXIR-related research outcomes.

[@elixir-europe.org](https://bsky.app/profile/elixir-europe.org)



## YouTube

Follow our YouTube channel for recordings of ELIXIR webinars and workshops.

[ELIXIR Europe](https://www.youtube.com/channel/UC...)



## LinkedIn

Follow our LinkedIn for event information and new job vacancies in ELIXIR Hub.

[company/elixir-europe](https://www.linkedin.com/company/elixir-europe)



## Webinars & events

Check out ELIXIR's events page for upcoming webinars and events.

<https://elixir-europe.org/events>





# Thank you



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