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# **ELIXIR perspective**

**Gavin Farrell, ELIXIR Hub**

**Nils Hoffmann, ELIXIR-DE**

# ELIXIR Europe - Overview

ELIXIR is an intergovernmental Research Infrastructure (RI) that brings together **life science resources** such as:

- databases
- software tools
- training resources
- interoperability resources
- compute resources
- data management support

The goal of ELIXIR is to coordinate bioinformatics resources from across Europe so they form a cohesive infrastructure

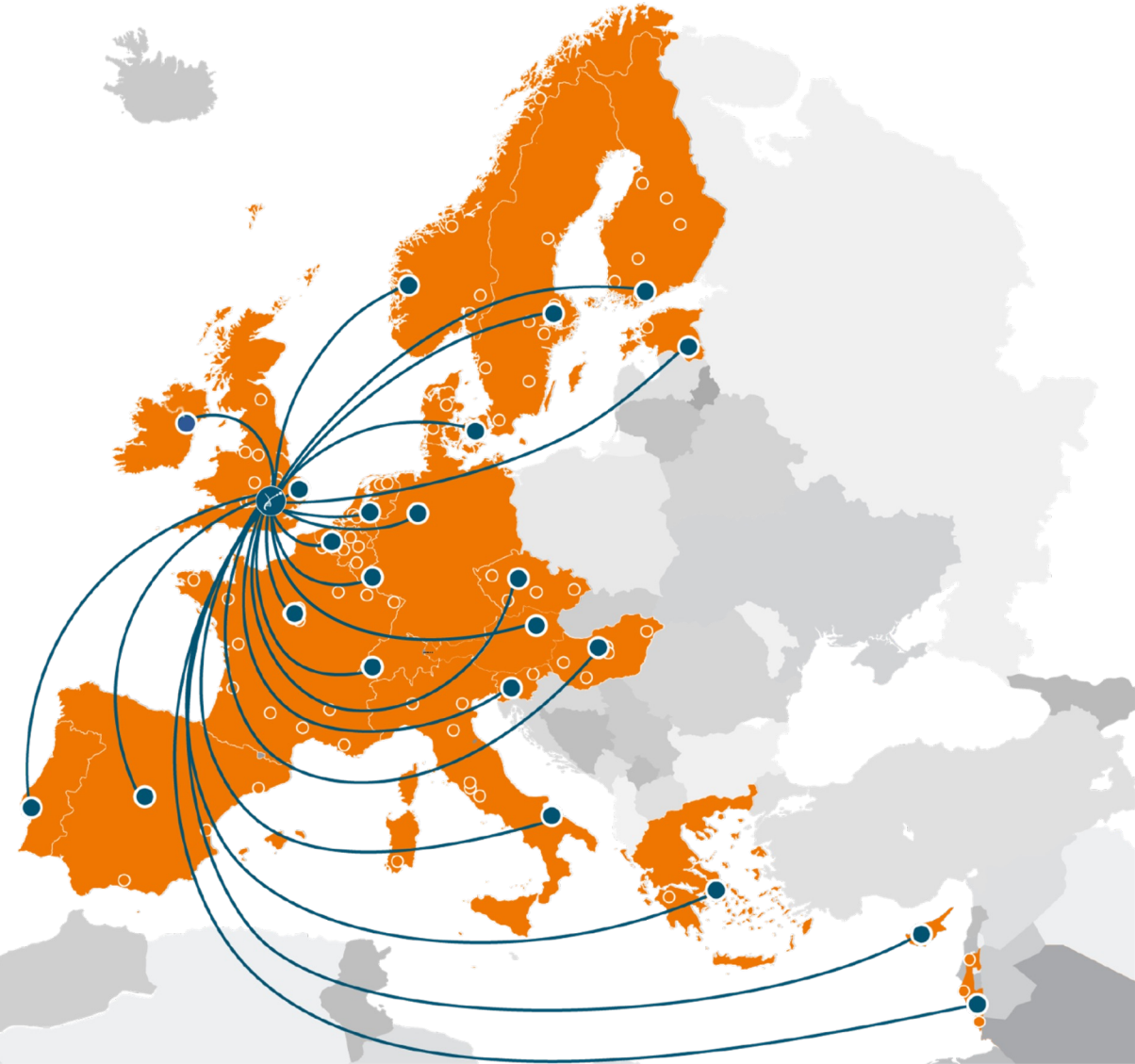
**ELIXIR Services:** <https://elixir-europe.org/services>

**450+**

**1 Hub** - coordinating body

**24 Nodes** - Member States

**245 Institutes** - forming the Nodes



# More info at the ELIXIR booth!



+ several other ELIXIR folk at this event!

# ELIXIR & Global Data Communities

ELIXIR collaborates globally in the **life sciences data** community

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



**Examples** of formal & informal collaborations:

- Life science infrastructures: [NIH ODSS](#)/[Australian Biocommons](#)/[H3ABioNet](#)/+
- Life science organisations: [GA4GH](#)/[Global Biodata Coalition](#)/+



ELIXIR collaborates globally in the **cross-domain data** community

- Data Together Collaboration: with a current RDA focus
- EOSC: EOSC projects/Task Forces/EOSC Association/+



# ELIXIR & Global Data Community - Engagement

## How? → ELIXIR RDA Activities Focus Group

### Purpose

To ensure that ELIXIR works with the global RDA community

### Global RDA community?

- Life-science data communities outside of ELIXIR
- Technical/data communities working on data handling
  - Life-sciences focus
- Data policy makers and standards/database developers
  - Ensure promoting/cataloguing of resources in [FAIRsharing](#)
  - [Life Science Data Infrastructure Interest Group](#) - co-chair





# ELIXIR RDA Activities Focus Group

## Focus Group website

<https://elixir-europe.org/focus-groups/rda-activities>

## ELIXIR's RDA collaboration

<https://elixir-europe.org/collaborations/rda>

## When?

Monthly call

## Steering Committee



Allyson Lister



Wolmar Nyberg Åkerström



Bengt Persson



Susanna-Assunta Sansone



Fotis Psomopoulos



# ELIXIR RDA Activities Focus Group - In action!

## Meet

- Monthly
- Discuss/share
- Collaborate
- Coordinate

## Survey & Monitor

- Landscape analysis
- Adoption of RDA outputs

## Report

- For each Plenary
- Disseminate & highlight info
- Life science focused

## Facilitate Travel

- ELIXIR travel grant
- 4x ELIXIR members
- 2x RDA Plenaries /yr
- International Data Week

# RDA Plenary Event Reporting

## Past Plenary reports

- 19 collaborative reports to date
- Deposited online for ELIXIR members: <https://elixir-europe.org/focus-groups/rda-activities/documents>
- Now also on **Zenodo**: <https://zenodo.org/record/7053714>



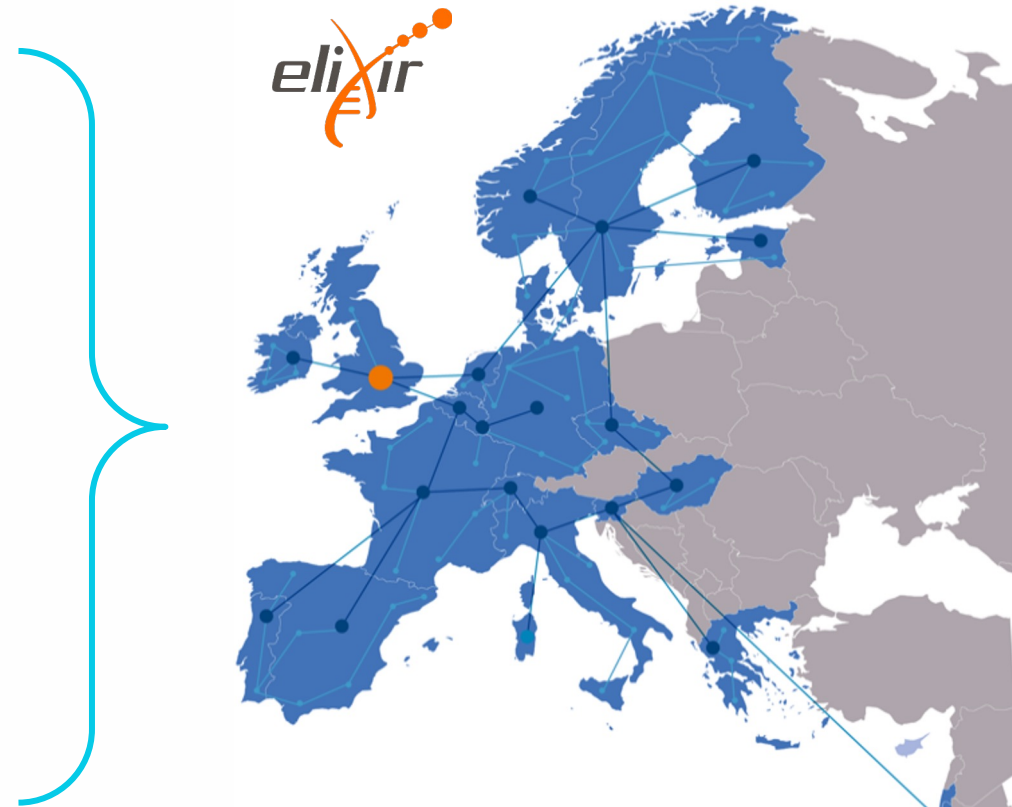
All RDA Plenaries covered!

| Name                       | Direct link   |
|----------------------------|---|
| + RDA 19th Plenary Report  | <a href="#">report_of_the_19th_plenary_of_the_rda_june_2022_.pdf</a>          |
| + RDA 18th Plenary Report  | <a href="#">report_of_the_eighteenth_plenary_of_the_rda_november_2021.pdf</a> |
| + RDA 17th Plenary Report  | <a href="#">RDA 17th Plenary Report</a>                                       |
| + RDA 16th Plenary Report  | <a href="#">RDA 16th Plenary Report</a>                                       |
| + RDA 15th Plenary Report  | <a href="#">RDA 15th Plenary Report</a>                                       |
| + RDA 14th Plenary Report  | <a href="#">RDA 14th Plenary Report</a>                                       |
| + RDA 13th Plenary Report  | <a href="#">RDA 13th Plenary Report</a>                                       |
| + RDA 12th plenary Report  | <a href="#">RDA 12th Plenary report</a>                                       |
| + RDA 11th Plenary Report  | <a href="#">RDA 11th Plenary Report</a>                                       |
| + RDA Tenth Plenary Report | <a href="#">RDA Tenth Plenary Report</a>                                      |
| + RDA Ninth Plenary report | <a href="#">RDA Ninth plenary report</a>                                      |
| + RDA Eight Plenary Report | <a href="#">Report on google drive</a>  |



# Further synergies - Data Together & EOSC

- [ELIXIR EOSC Focus Group](#) - a parallel ELIXIR leverages for engaging global data communities
- Benefits of engaging Data Together & EOSC as a Research Infrastructure
- e.g.: Grants ([Ambassadorships](#)), open calls ([EOSC IF](#)), projects ([RDA Tiger/WorldFAIR](#)), +...



# Perspectives from the ELIXIR Proteomics and Metabolomics Communities



Formed around domain experts in ELIXIR Nodes (including non-ELIXIR partners)



Provide a mechanism for long-term collaborations with other ESFRIs and large-scale initiatives



Drive service developments in the ELIXIR Platforms

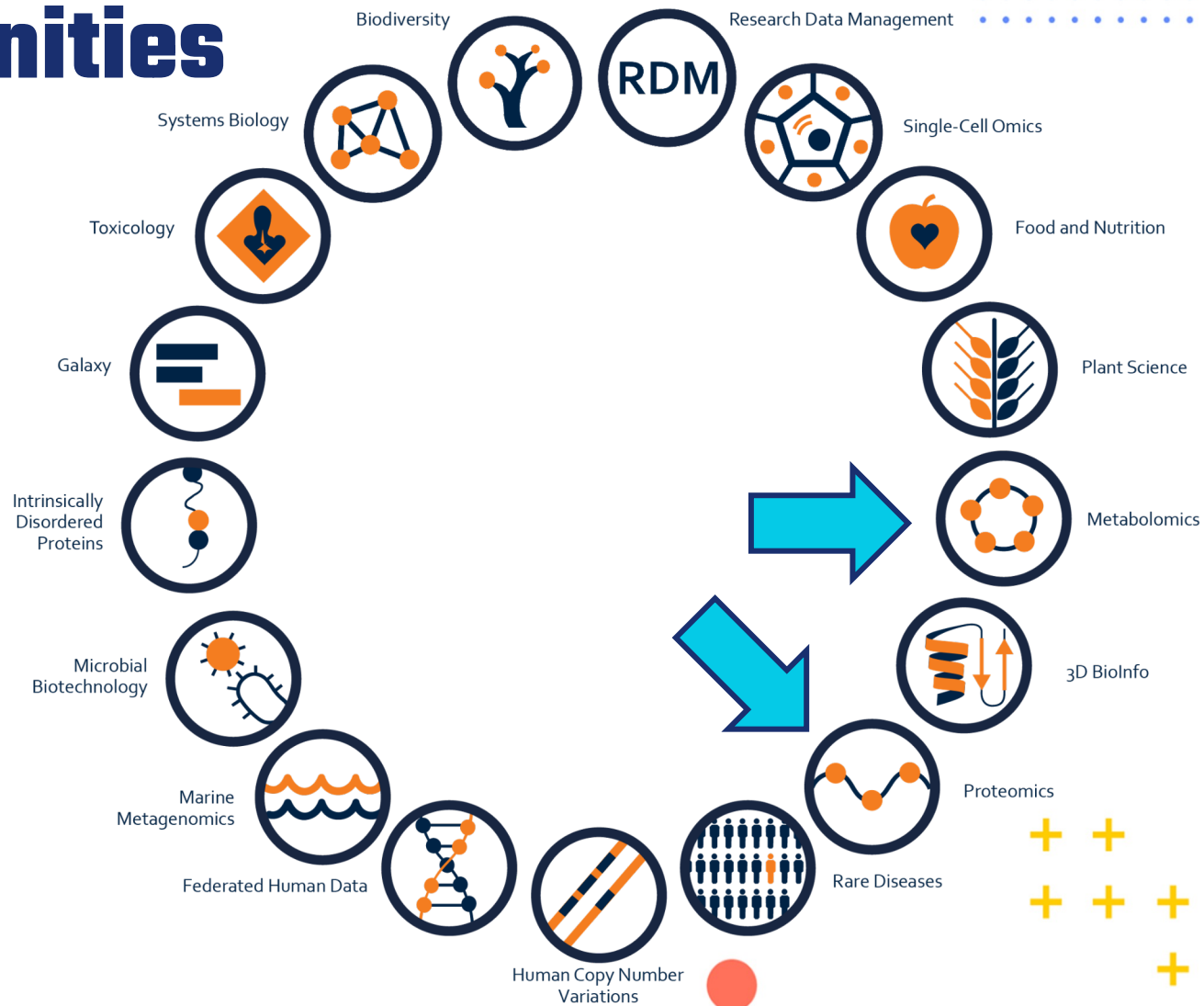


Provide a framework to develop and maintain community standards



Community Handbook:

<https://f1000research.com/documents/12-69>



# ELIXIR Proteomics and Metabolomics Communities - Links to HUPO PSI

## History and Connection to ELIXIR

- HUPO founded in 2001 to drive global proteomics research
- Proteomics Standards Initiative established to develop community standards for data comparison, exchange and verification (data and metadata), currently five active WGs
- PSI-MS WG for mass spectrometry data standardization
- Cross-connection to other MS-related research communities and organizations, like Metabolomics and Lipidomics and ELIXIR Communities, e.g. via implementation studies
- Standards adopted as submission formats for EBI and other repositories



translating  
the code of life



## Main activities

- PSI-MS controlled vocabulary curation
- Bottom-up, driven by community requirements
- Collaborative development of data formats and metadata specifications, documentation and reference implementations to simplify community uptake
- Specification document review process with external reviewers