



in /company/elixir-europe

ELIXIR - and the Galaxy Community

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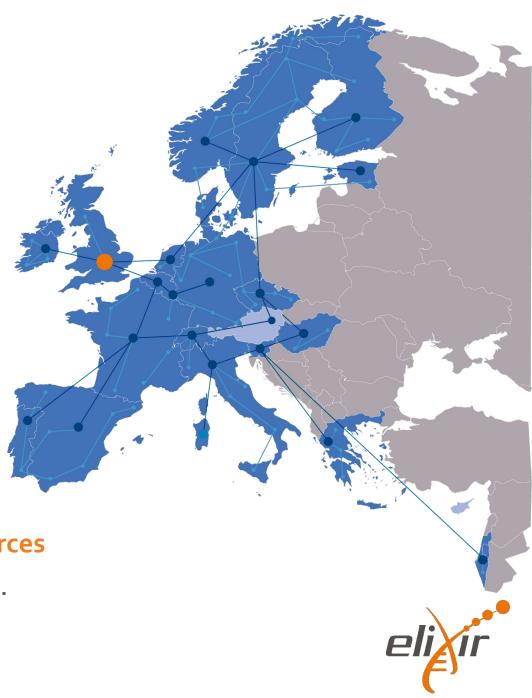
www.elixir-europe.org

ELIXIR Europe

ELIXIR is an intergovernmental organisation that brings together life science resources such as

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

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



ELIXIR – who we are

24 Nodes

ELIXIR Nodes form national networks of excellence, containing a total of 245 institutes/universities

1 Hub

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

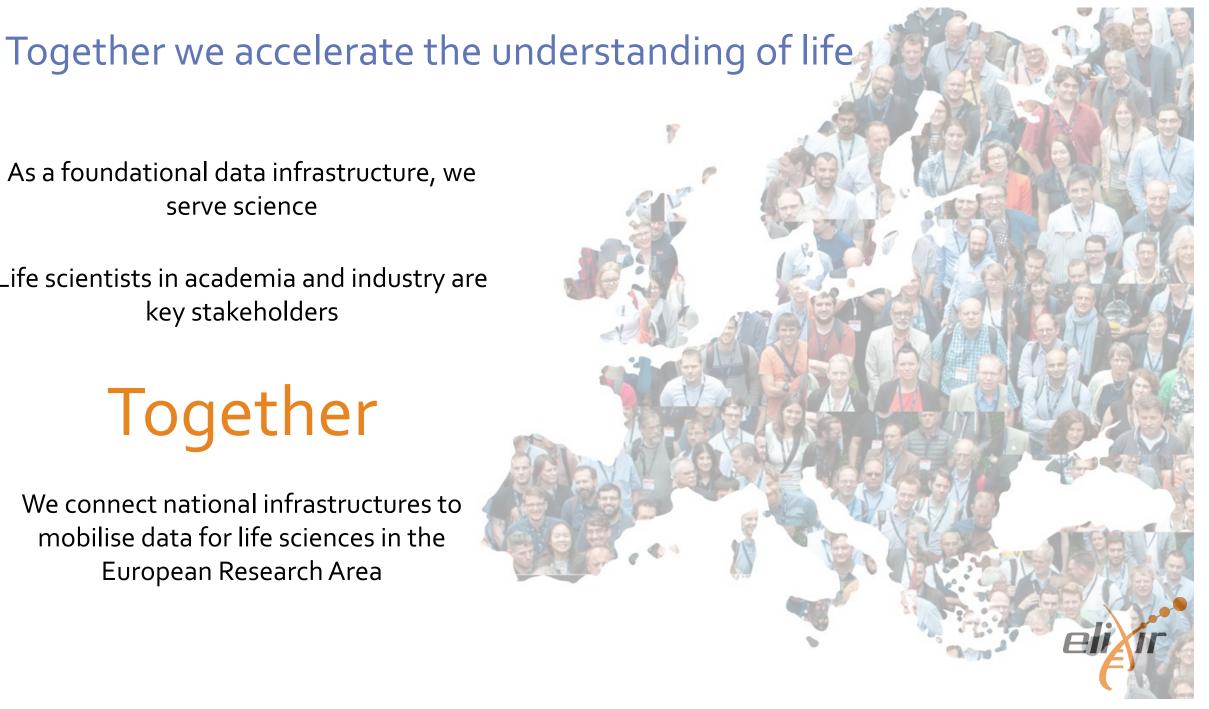


As a foundational data infrastructure, we serve science

Life scientists in academia and industry are key stakeholders

Together

We connect national infrastructures to mobilise data for life sciences in the European Research Area



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

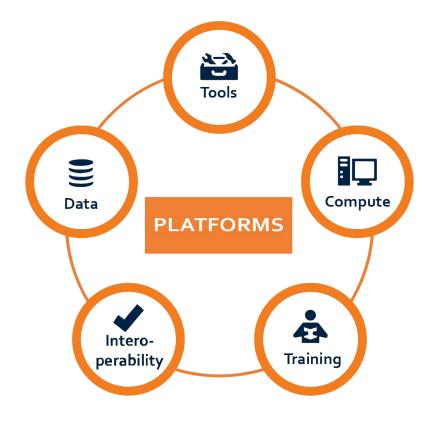
analyse biological data; encourages the life science community

to adopt standardised file formats, metadata & vocabularies

Training Strengthens national training programmes; grows

bioinformatics training capacity and competence across

Europe; empowers researchers to use ELIXIR's services and tools





ELIXIR Communities – connecting infrastructure & life science experts



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



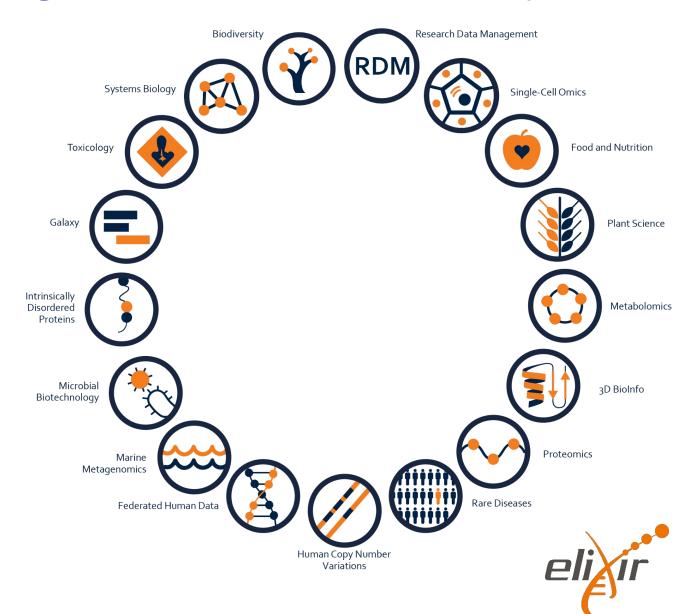
Provide a mechanism for long-term collaborations with other ESFRIs and large-scale initiatives



Drive service developments in the ELIXIR Platforms



Provide a framework to develop and maintain community standards

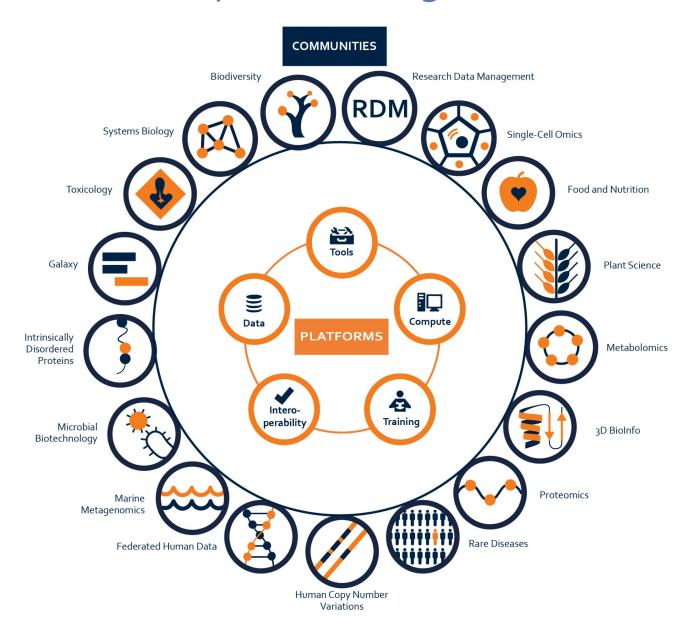


Purpose of Communities in ELIXIR

- Enable ELIXIR to capture user needs into formal requirements
- Drive service development and uptake (standards, tools, workflows) in user communities (across ELIXIR entities) for alignment and collaboration
- Support collaborative standards development
- Foster collaboration between Nodes via transnational expert networks
- Facilitate consortium building for funding applications
- Provide a mechanism for long-term collaborations with other ESFRIs and large-scale initiatives



Community embedding in the Infrastructure



A bi-directional conversation

Communities & Platforms



Galaxy

Mission/Vision

community in Europe, together with Galaxy resources and training. Monitors and fosters the use of Galaxy in ELIXIR.

Goals

- Build a European network of Galaxy communities.
- Extend Galaxy training provision.
- Create a Galaxy cloud infrastructure across Europe.
- Make it easier to access and transfer data.
- Improve tools and data integration.
- Promote FAIR principles in Galaxy.

Implementation Studies (Community-led)

- 06/2018 05/2020: "Implementation Study Galaxy Community"
- 06/2019 05/2021: "Expanding the Galaxy: meeting (the needs of) ELIXIR Communities"
- o6/2021 o5/2023: "Strengthen Data Management in Galaxy"

Community Leads

- Björn Grüning (DE)
- Frederik Coppens (BE)
- Nicola Soranzo (UK)

Hub contact: Katharina



<u>History</u>

- 2015: Working group <u>here</u>
- 2018: Community established (12M Implementation Study)

More information

• **ELIXIR Website**



Galaxy - Highlights





A global network:

- > 180,000 Galaxy Users
- > 240,000 Workflows
- > 900,000 Workflow Invocations
- > 200 free tutorials about data analysis (<u>Galaxy Training</u>)
- International Collaborations (e.g. collaboration with Australian BioCommons)
- International cross-timezone training events
 - <u>Smörgåsbord 2023</u> Free, Global, Online Week of Galaxy Training (May 2023)
- European Galaxy Server: usegalaxy.eu (2018), hosted in Freiburg (de.NBI)
- Community co-lead/s leading/involved in EuroScienceGateway project
 - Deliver a robust, scalable, seamlessly integrated open infrastructure for data-driven research



Smörgåsbord 2023

Free, Global, Online Week of Galaxy Training







GCC summary



Thank you to all the authors, presenters, and sponsors.



See you next year in Brno!



ELIXIR support:

- staff exchange Two proposals were supported
- **ELIXIR** members attended GCC
- News item



Biohackathon 2023



30/10 - 03/11 2023 Barcelona, Spain #BioHackEU23

2022:

- 35 projects (out of 65 applications, some proposals were merged)
- 170 F2F and 160 virtual participants
- 2023:
 - 80 project proposals were received
 - 35 projects selected
 - 180 people registered (full capacity)

More information: https://biohackathon-europe.org/



Bringing together life scientists to work collaboratively on



Call for projects: 27 February - 10 April

Projects submitted can be at any stage of development, from blue-sky ideas to more mature projects, and cover the following points:

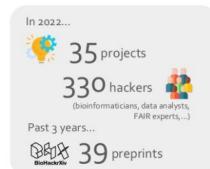
- 1. Scope and Vision of your project
- 2. Alignment with ELIXIR efforts and beyond
- 3. Feasibility of your proposal

bioinformatic projects



Registration opens: Early June

- FREE registration
- Accommodation cost: 560€ + VAT for single room; covering accommodation and including 3 meals



Community resources

- The ELIXIR Communities <u>Handbook</u>
 - Outlines the role and purpose of ELIXIR Communities.
 - Shall be considered the go-to document with regards to Communities, including their responsibilities and benefits and related processes
 - Links to key documents related to ELIXIR Communities

The ELIXIR Communities handbook shall be considered the point of reference for ELIXIR Community related questions. It is applicable under the ELIXIR 2019-2023 Programme.

- Communities <u>Poster</u>
- ELIXIR Communities webinar
 - Recording
 - Slides







The Galaxy Community F2F/hybrid meeting

Thank you to the organisers!

An opportunity to

- Share your scientific talks, advances, challenges, ...!
- Get together to share updates and progress
 - On general efforts as well as Implementation Study work
- Identify possible concrete next Community activities





Thank you

Get in touch: katharina.heil@elixir-europe.org

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