

Strategic planning of Research Infrastructure landscape towards Horizon Europe



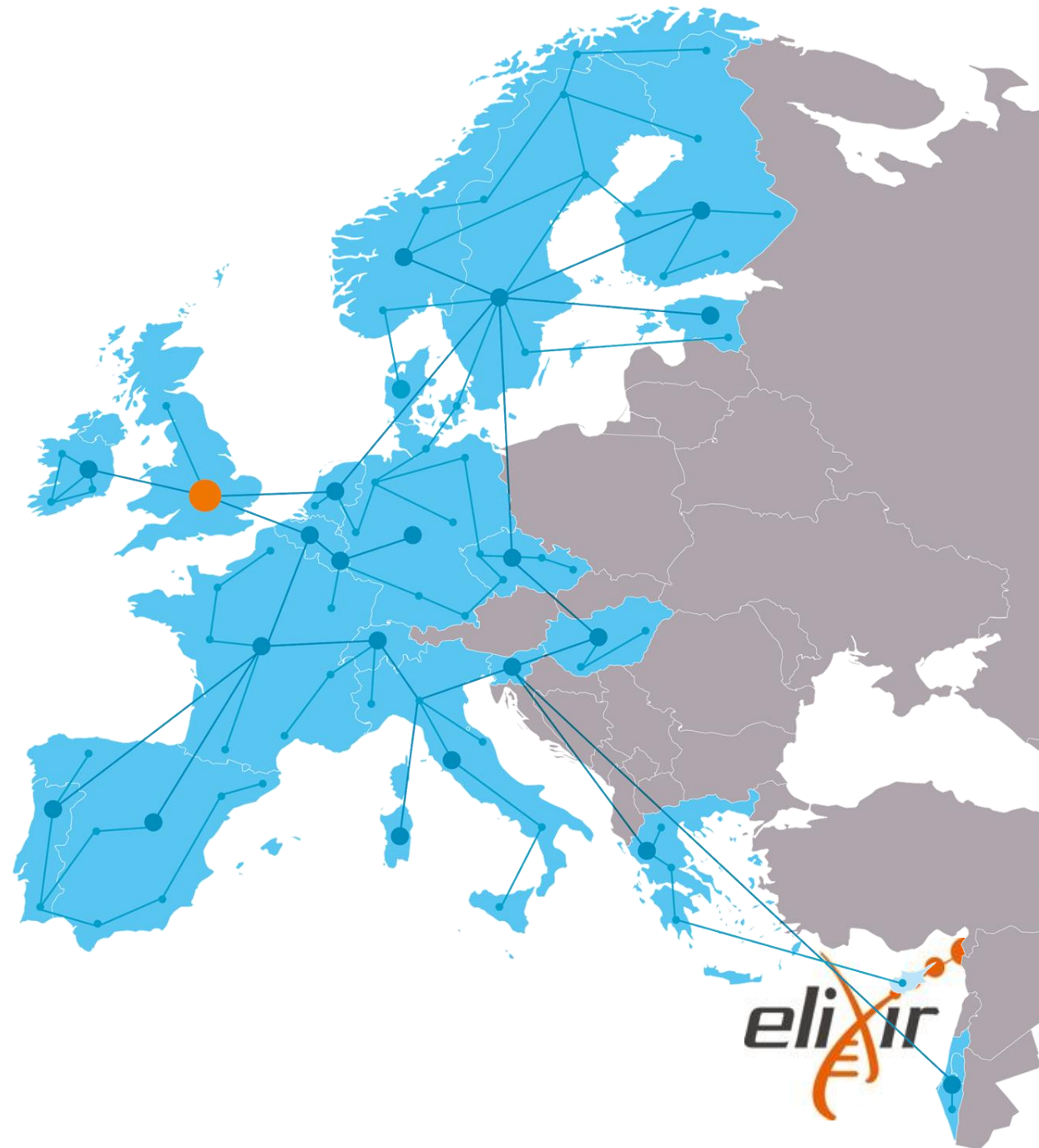
Andrew Smith, Head of External Relations
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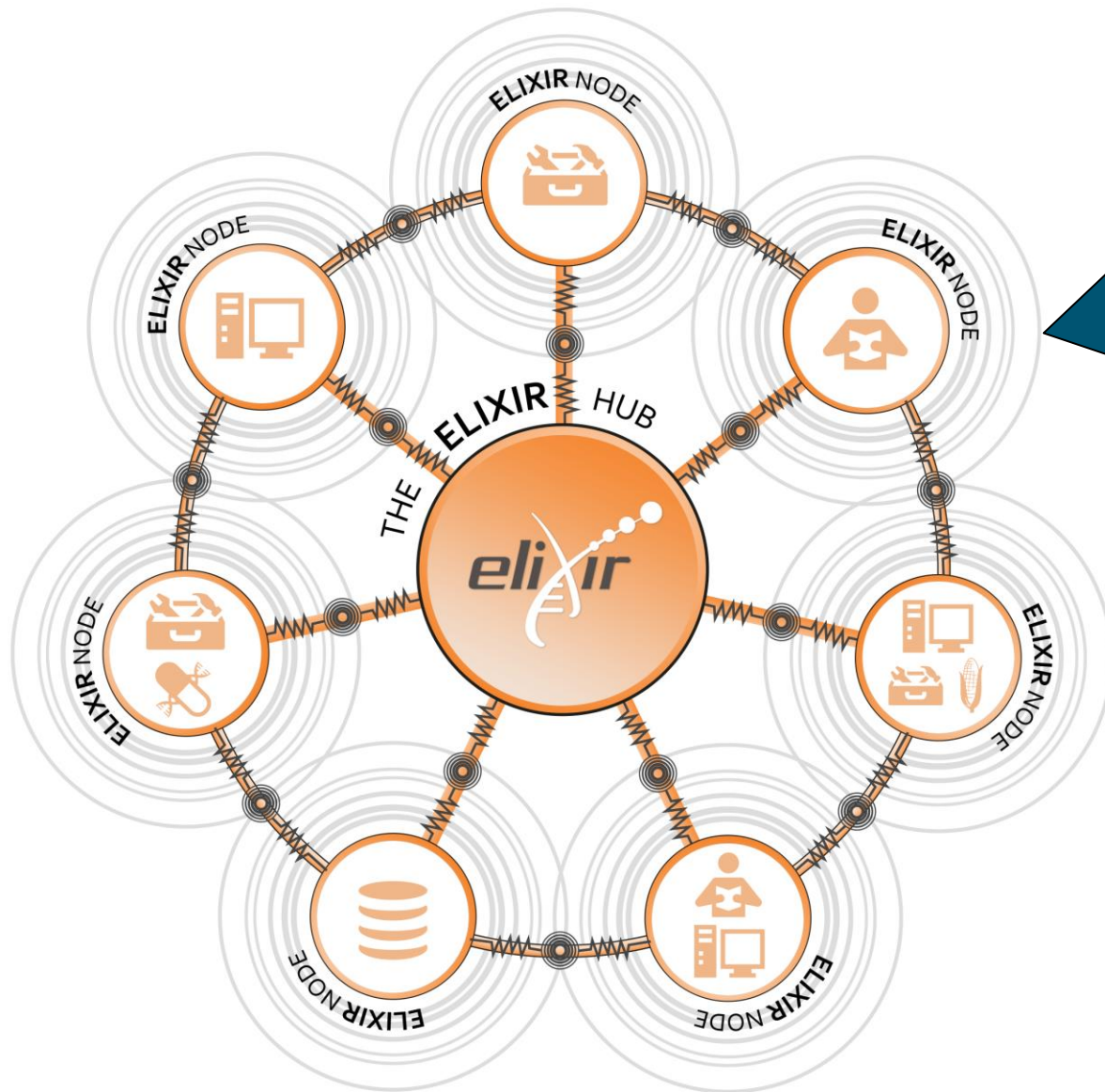
ELIXIR Members




ELIXIR Observers



A distributed pan-European infrastructure



ELIXIR: The Norway Node



ELIXIR's Norway Node will provide competence and infrastructure building on key areas for Norway, in particular marine resources and medical research. Challenges related to processing and analysis of data from next-generation sequencing and other high-throughput methods are important both to basic research in these areas, and to the development of new enterprises. The node will also provide training and support toward researchers.

Collaborating organisations


University of Bergen
The coordinating partner of the ELIXIR Norway node. The main focus is on marine genomics and e-infrastructure. An early deliverable is LakeBase developed in tight collaboration with the Sea Lice Research Centre.

University of Oslo
Emphasizes biomedical resource provision in analysis, leveraging public resources in integrative statistical genomics, with secure management of person sensitive data.

Norwegian University of Life Sciences
Main focus on providing genomic resources for species-oriented and comparative fish genomics. Provision of web-based solutions for services, toolboxes, and computational access to these data.


Norwegian University of Science and Technology
Tools and resources for analysing genome data, with focus on gene regulation, non-coding RNAs and epigenetics, but also bacterial genomics. Handling and analysis of data from human biobanks.

University of Tromsø
Tools and pipelines for analysing metagenomic (and genomic) data, with a particular focus on taxonomic classification and bioprospecting (functional and metabolic potential).



Marine research

The Norwegian ELIXIR Node will provide services and resources toward marine genomics including researchers, government, and industry. The Norwegian Node will offer several integrated packages geared towards large-scale analysis of marine genomic and metagenomic data (e.g. fish genomics and marine bioprospecting). This also includes provision of web-based solutions for services, toolboxes, and computational access to reference data provided by the ELIXIR infrastructure.




Health and biobanks

The Norway Node supports infrastructure for handling and analysis of data for medical research, including human biobanks. Such data may be sensitive, and must be stored with secure access. The node is developing infrastructure for sensitive data. Tools for data analysis are integrated into Helix, the Norwegian e-infrastructure for life sciences. This provides user-friendly solutions for example for human re-sequencing data and other genome-scale analyses.

Contact

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ELIXIR timeline - the role of ESFRI and EU funding

- 2006 - Added to ESFRI roadmap 
- 2007-2011 - Prep Phase grant 
- 2012-2013 - Interim Phase (non-binding MoU)
- 2014 - Established as Permanent entity (ELIXIR Consortium Agreement)
- 2014 - Prioritised by ESFRI and European Council 
- 2014-2018 - Implement first 5 year Scientific programme
- 2015 - Start of ELIXIR-EXCELERATE 
- 2015 - Start of CORBEL (cluster project) 
- 2016 - Became ESFRI landmark and included on G7 GSO roadmap 
- 2019-2023 - Implement Second Scientific Programme
- 2019 - Start of EOSC-Life (cluster project) 



Short and long-term needs from Horizon Europe

Short-term needs	Long-term needs
Horizon Europe proposal agreed and approved	More support for operation of successful RIs
Appropriate budget for Research Infrastructures	Better usage of RIs from other parts of Horizon Europe
Using ESFRI RIs in data management policies	More national support for ESFRI RIs





Thank you!



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