



[About GDI](#)

The European Genomic Data Infrastructure (GDI) project is enabling access to genomic and related phenotypic and clinical data across Europe by establishing a federated, sustainable and secure infrastructure to access the data.

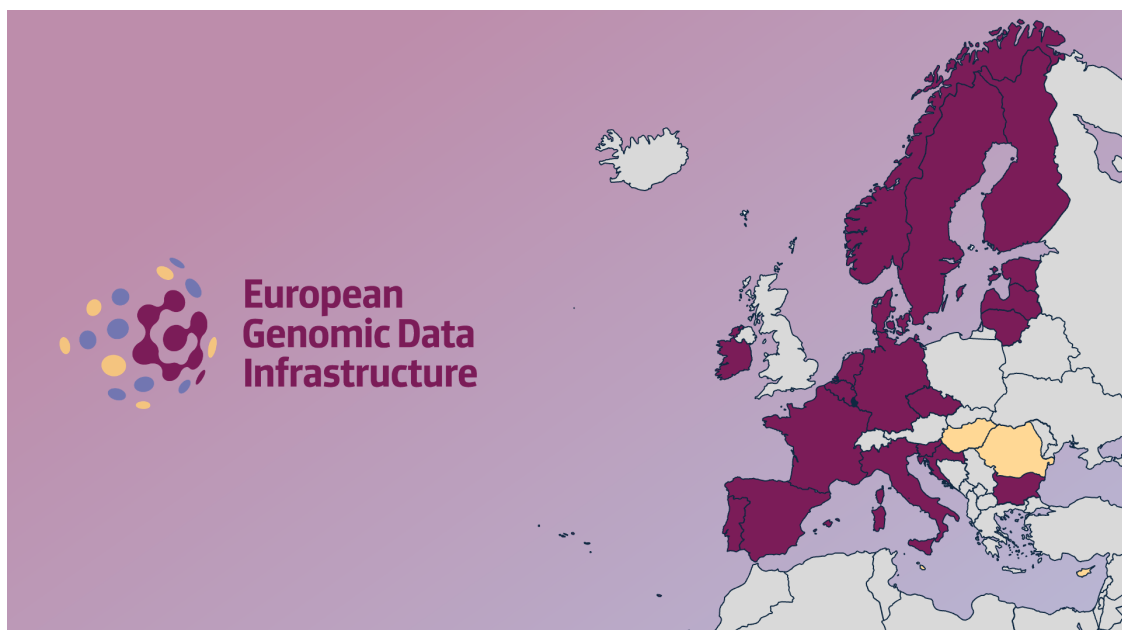
The project builds on the outputs of the Beyond 1 Million Genomes (B1MG) project and is realising the ambition of the 1+Million Genomes (1+MG) initiative.

News

New countries join the European Genomic Data Infrastructure project

The European Genomic Data Infrastructure (GDI) consortium has expanded with organisations from four EU countries, Cyprus, Hungary, Malta and Romania, joining the project. The expansion of the project is a step towards enabling secure access to high quality human genomics and corresponding clinical data across Europe by creating a cross-border data infrastructure.

[Read the news»](#)



Highlights from the
first 18 months



GDI Project

As of the end of April 2024, the GDI project is 18 months old. Read about the outputs so far and the project's ambitions for the remaining two and a half years.

[Read the news»](#)

"The 1+Million Genomes Minimal Dataset for Cancer" published on Nature Genetics

The article describes the 1+Million Genomes Minimal Dataset for Cancer, encompassing 140 items in 8 domains to foster the collection of cancer data, informing transnational cooperation and advanced precision cancer medicine.

[Read more»](#)

Erasmus Medical Center gets €20 million funding to lead the Genome of Europe project

Erasmus Medical Center Rotterdam is set to lead a transformative European genomic research project, the Genome of Europe, with €20 million in funding from the European Commission. The project brings together 200 researchers from 51 institutes across 29 countries to analyse the genomes of 100,000 Europeans by 2028, laying the groundwork for advancements in disease prevention, diagnosis, and personalised healthcare. The GDI project plays a critical role in establishing the necessary decentralised data infrastructure.

[Read the news»](#)

GDI deliverables

Report on European resources and data suitable for inclusion into the GDI

This report outlines the contributions of European countries to the Genomic Data Infrastructure, specifying the expected number of samples, the mix of legacy whole genome sequences and new DNA samples, sequencing technologies used,

Report to identify the initial set of relevant data for use cases

This deliverable encapsulates the collaborative efforts of GDI, 1+MG, and B1MG initiatives towards establishing minimal datasets and standards for genomic data exchange and integration.

[Read the deliverable»](#)

and the infrastructure for managing, storing, and sequencing these samples.

[Read the deliverable»](#)

Evaluation of distributed analysis and federated learning infrastructure solutions and recommendations for adoption

This deliverable outlines three key demonstrators showcasing advancements in distributed and federated analysis, cancer data mobilisation and trusted research environments.

[Read the deliverable»](#)

Recommended events



The CHAIMELEON project re-identification Challenge

May - August 2024

The CHAIMELEON project is calling on AI4HI and EUCAIM innovators to join a challenge to tackle one of the most pressing issues in today's digital landscape – ensuring the protection of personal data.

[More information»](#)

Supported publications

Secure data-out API - enabling encrypted htsgrep transactions

EGA is a service for achieving and sharing personally identifiable genetic and phenotypic data, while the GDI project is enabling access to genomic and related phenotypic and clinical data across Europe. This preprint highlights a BioHackathon Europe project focused on the data access part of the infrastructure.

[Read more»](#)

AlcoR: alignment-free simulation, mapping, and visualisation of low-complexity regions in biological data

This article addresses the challenge of automatically modelling and distinguishing low-complexity regions, providing a new method and tool (AlcoR) for efficient and accurate segmentation and visualisation of these regions in genomic and proteomic sequences.

[Read more»](#)

Recommended reads



Unlocking the genomic landscape: Results of the Beyond 1 Million Genomes (B1MG) pilot in Belgium towards Genomic Data Infrastructure (GDI)

This paper presents the qualitative and quantitative outcomes of B1MG Maturity Level Model assessment in Belgium and discusses their relevance to GDI. The insights gained from this study can be helpful for steering future policy directions and interventions on genomics in Belgium and beyond.

[Read more»](#)



FEGA and European GDI: working together to improve human health

European Genome-phenome Archive (EGA) published a blog post explaining the differences and common ground of Federated EGA and GDI.

[Read the blog post»](#)



UNCAN.eu: Toward a European Federated Cancer Research Data Hub

To enable a collective effort that generates a new level of UNCAN.eu, the European Union supports the creation of a sustainable platform that connects cancer research across Member States. A workshop hosted in Heidelberg gathered European cancer experts to identify ongoing initiatives that may contribute to building this platform and discuss the governance and long-term evolution of a European Federated Cancer Data Hub.

[Read more»](#)



The PROPHET project paves the way for personalized prevention in the future healthcare

The PROPHET project focuses on stakeholder engagement across various target groups and the co-creation process of the SRIA which includes three main strands of activities: mapping, assessment and building. This comprehensive approach ensures that the strategies and guidelines developed within the project align with key stakeholder needs and expectations.

[Read more»](#)

Send updates, stories and events for the next GDI newsletter to GDI Coordination Office at gdi-coordination@elixir-europe.org.

Follow GDI project updates on our social media and website.



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ELIXIR
Wellcome Genome Campus, Hinxton
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