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.

Highlights

1+MG/GDI/B1MGplus Stakeholder Forum – GDI outputs providing value to other EU dataspace projects today and in the future

20 January 2026 | 14:00-16:20 CET

The aim of the 1+MG/GDI/B1MGplus Stakeholder Forum 2026 is to disseminate the methods by which the GDI project can provide services and align with other EU projects and initiatives. This meeting will focus on the interactions between GDI and the Genome of Europe, ERDERA, CANDLE and EUCAIM projects.

Register now»

ERDERA and GDI work together to advance rare disease research and diagnostics

The European Rare Diseases Research Alliance (ERDERA) and the GDI project are joining forces to speed up rare disease research and improve diagnosis across Europe.
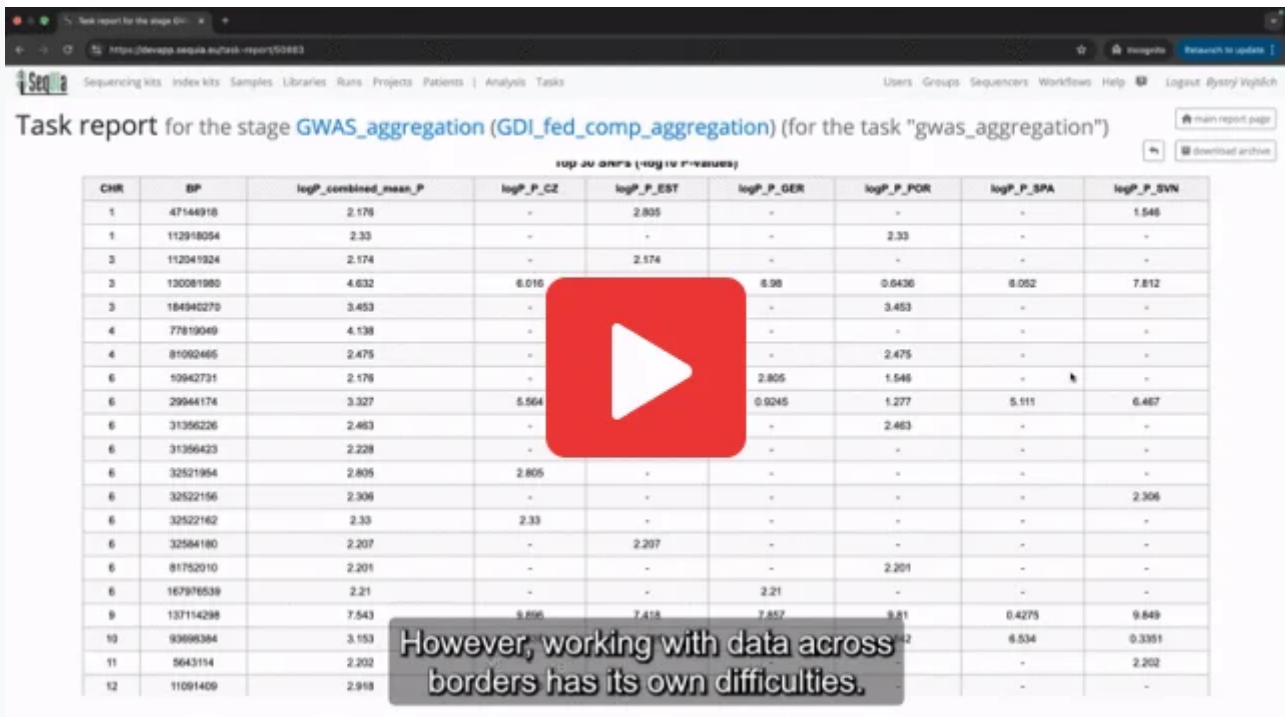
Read the news»

1+Million Genomes Initiative video - interview series

The GDI project has released four interview videos with experts working on the 1+Million Genomes Initiative. The interview series is a follow-up on the 1+MG video for

citizens and healthcare professionals released earlier this year.

- [Watch the interviews on YouTube](#)»
- [Watch and read the interviews on the GDI "For citizens" webpage»](#)»

1+ Million Genomes infrastructure - the benefits of federated analysis

An explainer video has been released to introduce the concept and importance of the 1+MG federated analysis infrastructure, particularly to policymakers. By using a federated approach, data from many countries can be combined to give more meaningful and reliable results, while respecting national data protection laws.

[Watch the video](#)

Project updates

GDI user journeys

The user journeys document describes the specific steps a user will take when interacting with the GDI and provides description of GDI's most common usages and a broad overview of expected functionalities and basic requirements.

GDI use cases recommendations

The report updates the recommendations for addressing the GDI use cases, aligning them with the finalised user journeys and stories.

Report on privacy-enhancing solutions

The report assesses three privacy-preserving technologies: differential privacy, homomorphic encryption and secure multiparty computation under three use cases: genome-wide association studies, rare diseases and federated machine learning.

B1MGplus news

B1MGplus workshop showcases the Maturity Level Model for genomics in healthcare

In September 2025, the B1MGplus project held a webinar on how to use the Maturity Level Model (MLM) for Genomics in Healthcare. The MLM is a framework for assessing the maturity of an organisation and defining a path for optimisation. In the context of genomics and healthcare, it helps European countries assess and enhance the integration of genomics into their healthcare systems.

Recommended reads

Determining the value of genomics in healthcare

The review paper discusses the need for approaches to evaluating genomic technologies that are dynamically informed by real-world data, and provides examples of emerging methods and best practices.

The Italian national genomic strategy: current status, challenges, and future perspectives in clinical practice and public health

The article presents the outcomes of a national initiative aimed at developing a technical document to support the future Italian National Genomic Strategy, carried out from 2021 to 2024 through the collaboration of 14 research institutions.

Read more»

RareLink: scalable REDCap-based framework for rare disease interoperability linking international registries to FHIR and Phenopackets

The paper introduces RareLink, an open-source framework implementing published ontology-based rare disease common data model. It enables standardised data exchange between Research Electronic Data Capture, international registries and downstream analysis tools.

Read more»

Revisit the 1+MG Initiative video

Genomics for Everyone: How 1+Million Genomes benefits EU citizens

In this video, stakeholders from 1+MG countries explain how the initiative is listening to the voices of the public, safeguarding data privacy and building trust. Learn how the

1+MG Initiative is not just about science — it's about empowering people with access to healthcare that fits their unique genetic makeup.

Watch the video

GDI project receives funding from the European Union's Digital Europe Programme under grant agreement number 101081813.

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