

The European Genomic Data Infrastructure project releases Starter Kit to enable access across borders to genomic and phenotypic data

EMBARGOED until 11:00 CEST on Monday 26 June

The European Genomic Data Infrastructure (GDI) project has released a 'Starter Kit' based on the rare disease and cancer proof-of-concepts from the Beyond 1 Million Genomes (B1MG) project. GDI is a collaborative project to build secure sustainable data infrastructure required to fulfill the ambitions of the 1+ Million Genomes (1+MG) initiative, which aims to realise the practice of genomic medicine across Europe.

The GDI Starter Kit is a key project output that supports federated data access workflows. It will benefit not only the national nodes of GDI, but also in future public institutions and companies who can use the software technologies to increase legal, organisational, semantic and service interoperability by including these software and standards into their own environment.

The Starter Kit is a set of software applications and components co-developed by the 20 GDI nodes, based on open community standards from the Global Alliance for Genomics and Health (GA4GH). These have been tailored for new nodes in GDI to deploy during their onboarding phase. The Starter Kit gives all countries the technical capability to access synthetic genomic and phenotypic data across borders.

The Starter Kit includes more than 2,500 synthetic genomics and phenotypic data (including cancer, rare diseases and population genomics) and enables nodes to rapidly deploy a functioning pilot system, as a first step towards a production infrastructure. The Starter Kit is freely available to any interested parties, for example, industry can use the Starter Kit to understand what the GDI project plans to deliver and design their products accordingly.

Products in the Starter Kit are shown in the image below, many of them are open source software products that are operated as services in national hubs. LifeScience AAI and Beacon Network are offered as a service at the European level operations for the national hubs.

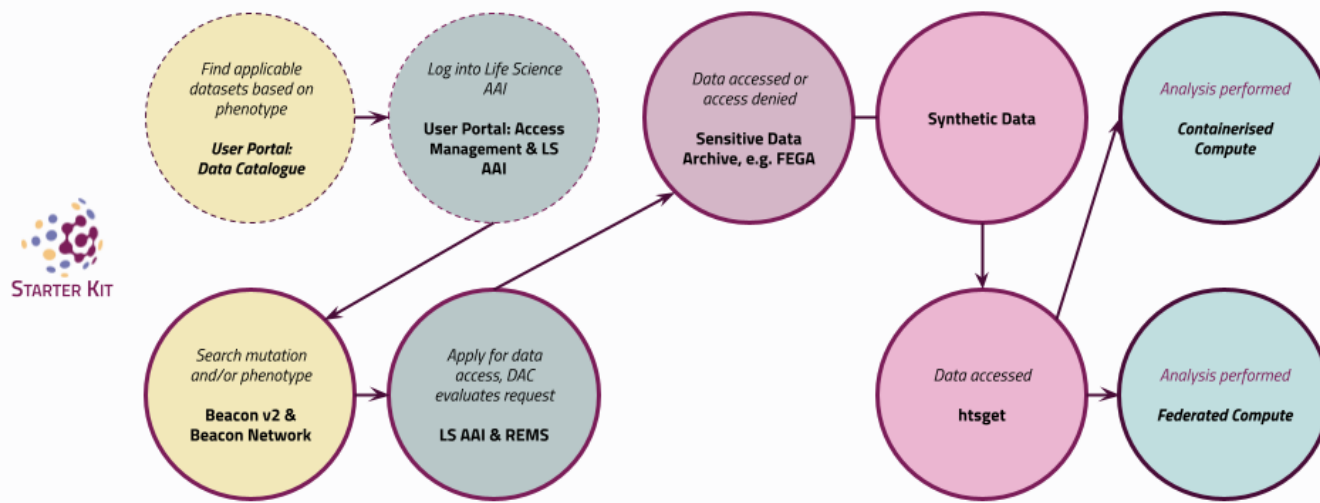


GDI project receives funding from the European Union's Digital Europe Programme under grant agreement number 101081813.



GDI Starter Kit User Journey

1+MG
5 FUNCTIONALITIES



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The image above shows the full workflow of the GDI Starter Kit user journey. The dotted circles (User Portal: Data Catalogue and User Portal: Access Management & LS AAI) are not included in the Starter Kit yet.

Dylan Spalding, the co-lead of GDI Work Package 5, shared the development progress of the Starter Kit and its impact:

'The development of the Starter Kit products have been led by the product owners from 4 different countries, including Czech Republic, Finland, Spain and Sweden. These products have been developed in collaboration with other projects, such as Federated EGA. This helps ensure technical interoperability of the Starter Kit with other genomic data sharing platforms and provides a demonstration of the standards proposed for use within GDI which links the different components or products together, with the aim of making the data as FAIR as possible.'

Serena Scollen, the GDI Project Coordinator and Head of ELIXIR Human Genomics and Translational Data team, spoke of the importance of the GDI Starter Kit:

'The GDI Starter Kit has generated a lot of excitement as it lays the foundation for how countries can deploy infrastructure to become operational and integrated into the 1+MG



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infrastructure. Advances are already evident in all 20 countries. Technical developments are paramount at this stage of GDI to ensure we are on a path to provide the infrastructure to support the discovery, access, sharing and analysis of human genomics data and linked phenotypic/other data on a massive scale.'

This release is the first version of the Starter Kit, which will be further developed during the lifetime of the project following an iterative approach. The Starter Kit is accessible here:

<https://github.com/GenomicDataInfrastructure>

[GDI starter kit authors community](#)

About GDI

The European Genomic Data Infrastructure (GDI) project - co-funded by the European Union's Digital Europe Programme (101081813) - is enabling access to genomic and related phenotypic and clinical data across Europe. It is doing this by establishing a federated, sustainable and secure infrastructure to access the data. It 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.

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Image

GDI Starter Kit to enable access across borders to genomic & phenotypic data



Social media

Twitter:

🦋 GDI has released the #GDISTarterKit! It is a key project output of the project that supports federated data access workflows 🗄️ and will benefit national nodes of GDI, public institutions & the industry 🙌.

Read their news:

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Find out more about the GDI Starter Kit:



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