

Roadmap for implementation of genomics in healthcare: towards equity in access to genomics

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CONTEXT

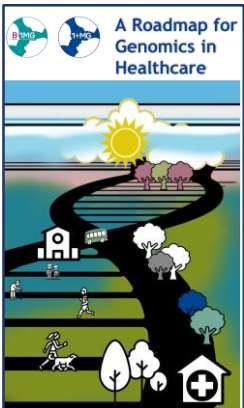
- The [1+Million Genomes Initiative](#) is promoting an European reflection on national strategies for genomic medicine, and how these will contribute to research and clinical practice.
- Implementation of genomic medicine is complex and requires investment and adjustments in healthcare services.
- To promote the clinical implementation of genomic medicine and improve its societal impact, the [Beyond 1 Million Genomes \(B1MG\)](#) project
 - developed and validated a comprehensive Maturity Level Model ([1+MG MLM](#)) for genomic medicine,
 - organised three [country exchange visits](#) for capacity building,
 - organised workshops on health economics models for genomics.

ACTIVITIES

The main results of these activities are collected in the [playbook](#)

A Roadmap for Genomics in Healthcare

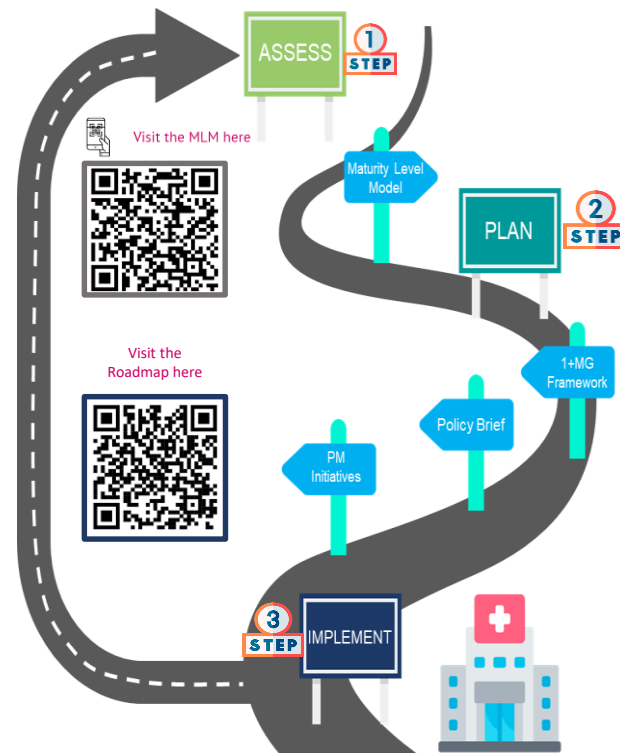
- to guide & support healthcare systems in establishing their own path towards implementing genomics in clinical care;
- to facilitate the use of the [1+MG MLM](#) for the self assessment of maturity of genomic practices in healthcare systems;
- to assemble pointers to up to date best practices in personalised medicine.



THE ROADMAP

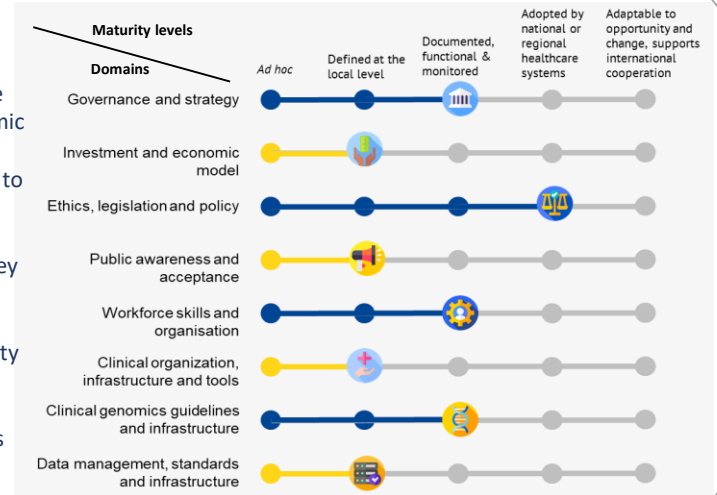
The Roadmap proposes 3 steps for implementation of genomics in healthcare systems:

- 1. ASSESS** the maturity of genomics implementation in healthcare systems using the 1+MG MLM;
- 2. PLAN** by learning from successful practices and guidelines, design an action plan and seek commitment from governments to secure funding.
- 3. IMPLEMENT** genomic medicine best practices in healthcare systems using the 1+MG MLM to monitor progress.



1 Maturity assessment

- The [1+MG MLM](#) is a tool for healthcare systems to self-evaluate the level of maturity of their genomic medicine practices according to a common matrix, and define a path to optimization;
- The 1+MG MLM assesses the maturity of 49 indicators in eight key domains, in a five maturity level progression;
- A benchmarking tool allows maturity comparisons across healthcare systems for each indicator;
- The MLM indicators maturity levels also provide support to monitor progress towards optimization.



2 Learn, Plan & Commit

Learn from visits to high maturity countries like



Access the visits here

<https://b1mg-project.eu/resources/>

Learn from best practices and guidelines

- [1+MG Framework](#)
- International Consortium for Personalised Medicine ([ICPerMed](#))
- Global Alliance for Genomics & Health ([GA4GH](#))
- other personalised and genomic medicine initiatives

3 Implementation

This roadmap, with assessment and suggested guidance documents, will help healthcare systems define a plan for implementation of genomic practices in healthcare. It is intended as a living document, regularly updating sources of guidance and access up to date best practices from the international community.

The [Roadmap for Genomics in Healthcare](#) will support the definition of strategies for adoption of genomics in healthcare systems, towards equity in the access to genomic medicine for all European citizens.

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