

2^{ème} édition des rencontres SHS et médecine génomique

30 juin 2023 Inês Amado & Cécile Meslier

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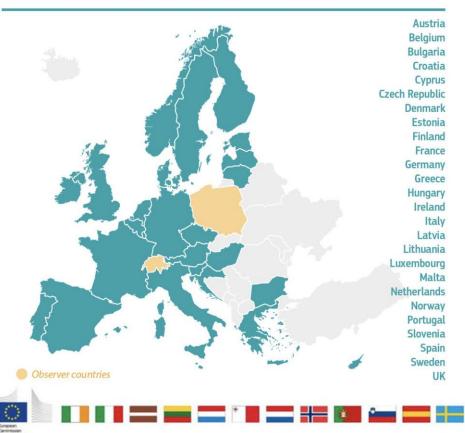
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1+MG facilitates countries to realise a practice of personalised medicine and health, based upon a shared 'trust framework' and the infrastructure to safely access and integrate high quality genomic data and other health data across borders

Countries that have signed the 1+MG Declaration since 2018





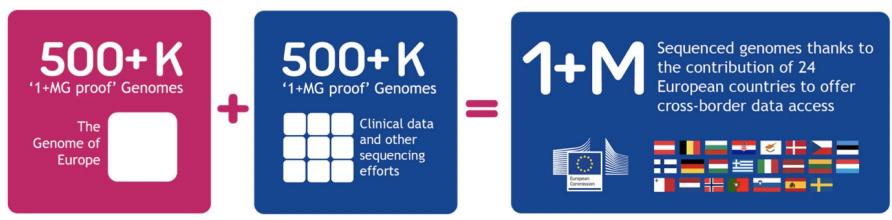




European commitment to achieve access to at least 1 million sequenced genomes by 2022

B1MG is creating legal guidance, best practices, recommendations and an infrastructure to achieve the goal









1+MG Trust Framework

B 1MG

Technical recommendations and guidelines for genomics data

DATA GOVERNANCE (ELSI)

STANDARDS

IMPLEMENTATION INTO HEALTHCARE

QUALITY

INFRASTRUCTURE

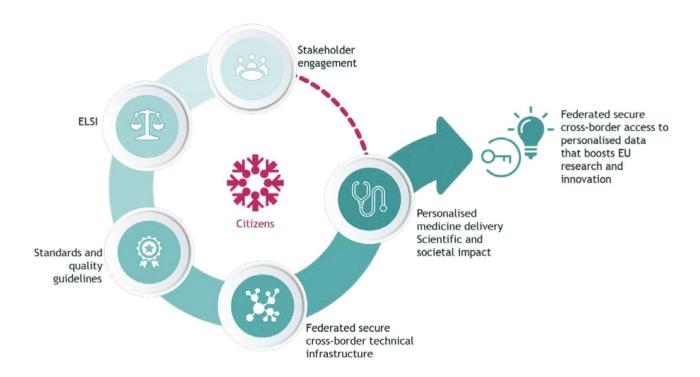
European genomics dashboard





Iterative process

 An iterative approach for the implementation of the 1+MG programme is being followed, involving key stakeholders at national and international level.



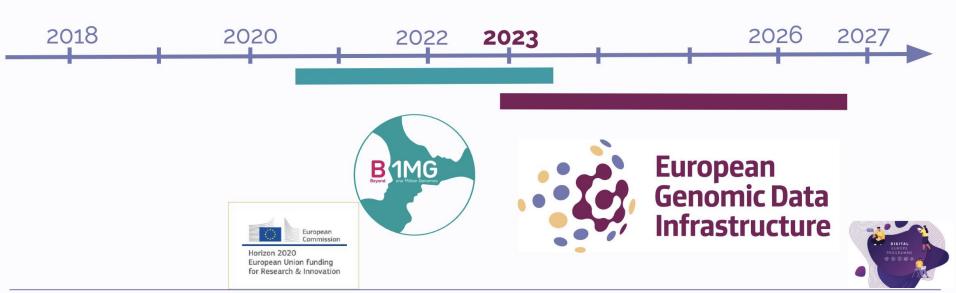




Implementation projects



Cross-border access to genomic data, implementation of genomics-based health







1+MG implementation

Connecting to other projects and initiatives









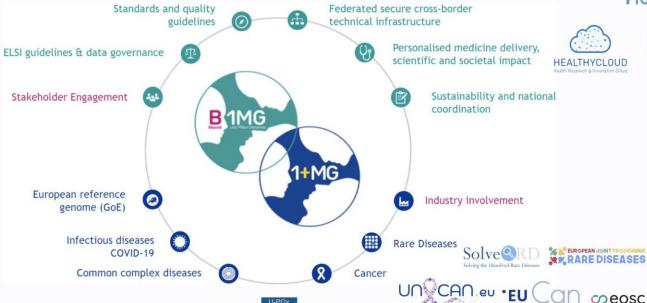
PROPHET

































WGs 1+MG

- WG1 Gouvernance / National Mirror Groups Fernando Martin-Sanchez, Angela Ponce =>
 Frédérique Nowak (coordinatrice scientifique), Inês Amado (Point de contact national) & MESR
- WG2 ELSI Regina Becker
- WG3 Data standards Jeroen Belien
- WG4 Quality metrics for sequencing Ivo Gut
- WG5 Technical infrastructure Tommi Nyronen
- WG6 Health Economics Ilse Custers
- WG7 Private sector Sandra Liede
- WG8 Rare Diseases Bruno Dallapiccola
- WG9 Cancer Giovanni Tonon
- WG10 Common & Complex Diseases Andres Metspalu
- WG11 Infectious disease use case Katja Kivinen
- WG12 Genome of Europe André Uitterlinden

Mise en place du Groupe Miroir National demandée par 1+MG



The 1+MG National Mirror Groups (NMGs) feed their national experience into the 1+ Million Genomes Initiative.

These national instances will ensure the effective implementation of the roadmap at a national and local level by 2022.



MISSION

Improve quality of life



To improve EU citizens quality of life by enabling transnational access to genomics data

Facilitate access to the initiative's information For national experts and policymakers to ensure the alignment of Member States with the initiative's objectives.

Promote national adoption and sustainability

To ensure synergistic implementation in each National Health System and provide recommendations to local and European funders.



TASKS

NMGs, alongside stakeholders, will create a space for dialogue to:

Build a decision-making framework

For public-private participation and increased health literacy among stakeholders.

Envision a future framework

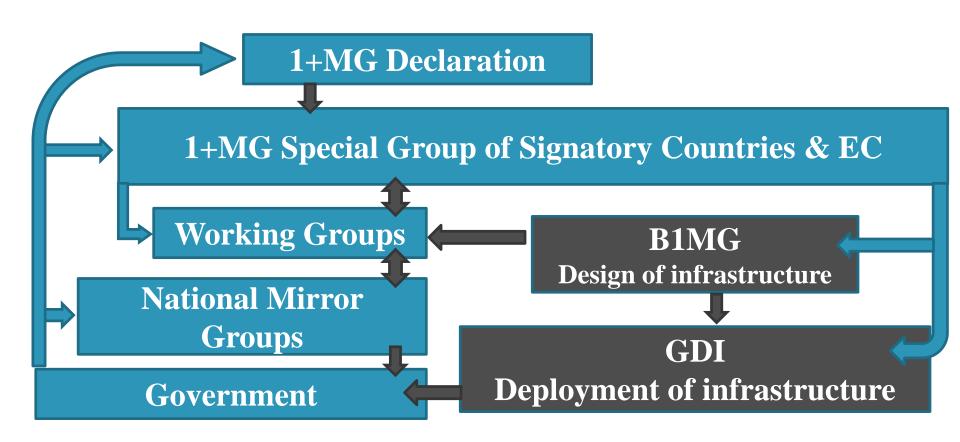
For integrating emerging health technologies into health systems.

Identify prospective mechanisms

For stakeholder cooperation - inside and outside the EU.

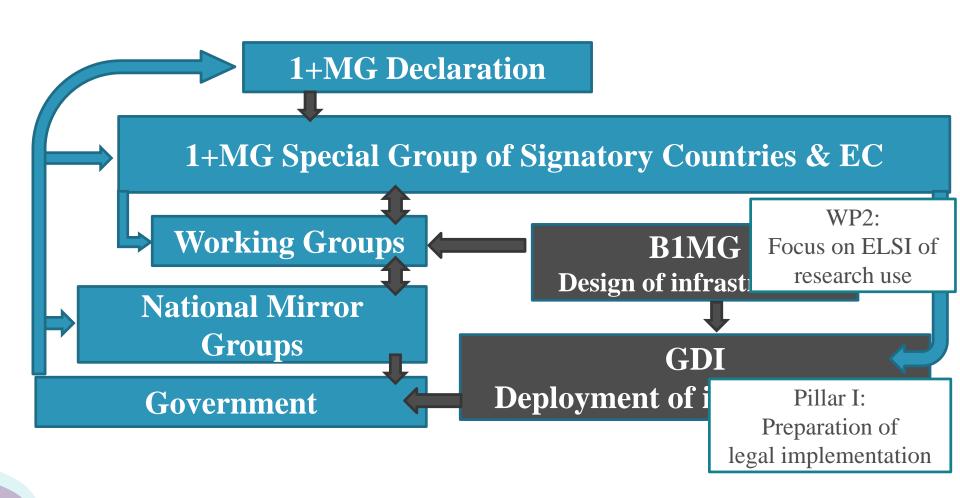


Relationships & roles in 1+MG





Relationships & roles in 1+MG



Background: Scope of 1+MG

- Scope of 1+MG: the what and the who
- Membership
 - EEA countries
 - Openness of other country of similar ethical values
- Activities
 - Scientific research
 - ✓ Open for users worldwide
 - ✓ Potentially more safeguards / limitation of IP for non-EEA countries
 - Healthcare reuse
 - ✓ Member countries only
 - Policy development
 - ✓ Member countries only unless policies of general interest



Overview compilation of legal landscape workshops

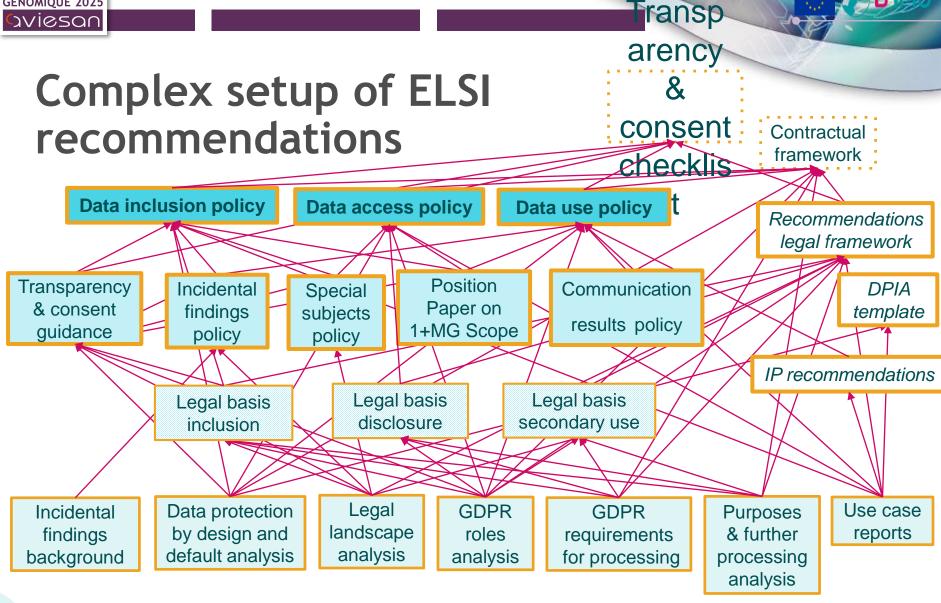
Countries	Secondary use for public interest	Act on secondary use	Consent for health data to research	RECs for health data to research	Consent for research data to healthcare	RECs for research data to healthcare	Specific safeguards on DPA	Anonymizat ion or pseudonymi zation	Attention to subjects' rights	Need of DPIA
Denmark				✓	✓	✓	✓	✓		
Finland	✓	✓					✓	✓	✓	✓
Norway		✓	✓	✓	✓	✓	✓		✓	
Sweden	✓		✓	✓	✓				✓	
Greece			✓	✓	✓	✓	✓	✓	✓	✓
Italy			✓	✓	✓	✓	✓	✓	✓	\checkmark
Malta	✓				✓	✓		✓		
Portugal			✓	✓	✓	✓	✓	✓	✓	\checkmark
Spain	✓		✓	✓	✓		✓	✓	✓	✓
Netherlands			✓	✓	✓			✓	✓	✓
Belgium	✓		✓	✓	✓		✓	✓	✓	✓
France	✓			✓	✓	✓	✓	✓	✓	✓
Germany	✓		✓		✓				✓	
Poland			✓		✓				✓	✓
Czech Republic	✓		✓	✓			✓	✓	✓	✓
Latvia	✓		✓		✓					
Estonia	✓	Sli	de: O	lďa T	zórtz	atou	Mari	ná Ma	akri.	

Alexandra Ziaka

Topics broached

- Legal base (for analysis, core processing...)
- Definition of roles under the GDPR
- Legal framework applicable
 - GDPR
 - "European Digital Infrastructure Consortium" (EDIC)
- Transparency and consent guidance
- Inclusion of special (vulnerable) subjects
- Incidental findings (IFs)
- Communication general research results
- Data protection assessment







Missing elements and next steps

Obvious gaps

- Data governance for healthcare reuse, policy development [not part of B1MG]
- Contractual relations [only possible if overall setup is agreed]
- Content suggestion for information and consent forms
 [only possible if overall setup is agreed; not part of B1MG]

Other elements

- International transfer
- Sometimes no detailed report compiled
 E.g. recommendations integrated into data governance without producing individual report (IP, data subjects' rights)
- •



Merci pour votre attention!



Mise en place du Groupe Miroir National demandée par 1+MG

Composition des Groupes miroir nationaux :

- Groupe de travail de l'initiative à laquelle il appartient.
- Rôle : coordinateur/expert.
- Type d'acteur (partie prenante) :
 - o Ministère/Agence/Administration/Décideur politique.
 - Recherche/Université.
 - Communautés cliniques.
 - Communautés informatiques/données.
 - Communautés scientifiques.
 - o Groupes consultatifs en matière de politiques.
 - Industrie/Secteur privé.
 - ELSI (Éthique, aspects sociaux et juridiques de la recherche scientifique et technologique).
 - Agences de financement.
 - Organisations de patients.



Review gaps for current roadmap objectives

Gap themes:

- Health
- Data
- Sustainabilit

Topic	1+MG	B1MG	GDI	Gaps 2023-2027		
				Implementation in healthcare & public		
Governance	WG1, WG2	WP2	WP2	health		
Trust framework	WG2, WG3, WG4, WG5	WP2, WP3, WP4	WP2, WP4, WP6, WP8	Health policy scenario; sustainability		
Infrastructure	WG5	WP4	WP3, WP4, WP8	Data stewardship and technical capacity building; actions for healthcare professionals		
				Sequencing; data curation and integration, storage costs and		
Data	WG3, WG4, WG12	WP3	WP1 ,WP4, WP6	sustainability		
Use cases	WG8, WG9, WG10, WG11	WP7	WP7			
National efforts	WG1, WG6	WP5, WP6	WP1, WP5			
Stakeholders	(WG7)	WP1, WP6	(WP1), WP5, WP8			
Other initiatives	(CG)	WP1, WP6	WP5			
Societal impact	(WG6)	WP4	WP3, WP4, WP8	Funding for capacity building, networking		

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