Prévention et Longévité:

Construire le système de santé de demain

Le projet AXIA Medicine, pour quelle médecine préventive et de longévité aux Etats Unis ?



Dr Alessandro Riccombeni CEO





Bonjour!











MEDICINE







- Cancer Research (European Oncology Institute)
- Omics platforms for Pharma, Diagnostics (DNAnexus)
- AWS: International Head of Precision Medicine
 - EMEA, APJ, Canada, LatAm
 - Led creation of Amazon Omics
- Microsoft: National Genomics Officer













The Promise of Precision Medicine



Right treatment, right patient, right time:

> Right Patient, Right Treatment, Right Time.

The Right Treatment for the Right Patient at the Right Time:

Right Drug for the Right Patient at the Right time







Longevity: the Textbook







Precision Medicine is the Door to Healthy Ageing



Predictive "identify individuals at risk of disease"

Preventive "prevent illness before it happens"

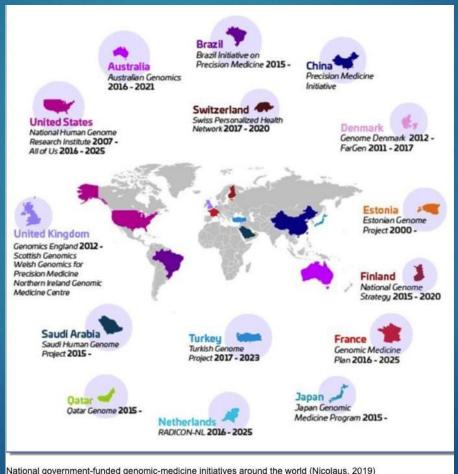
Personalized "tailor care to each individual's characteristics"

Participatory "patients become active participants in Healthcare"





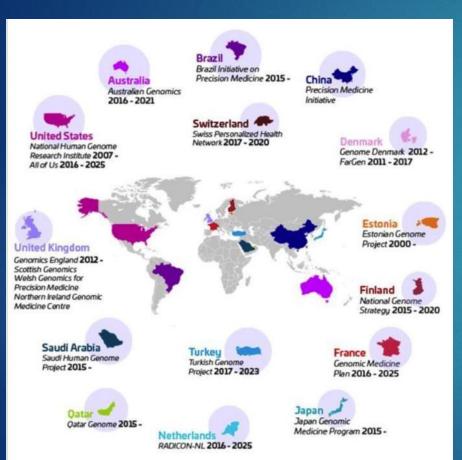
Precision Medicine Depends on Data

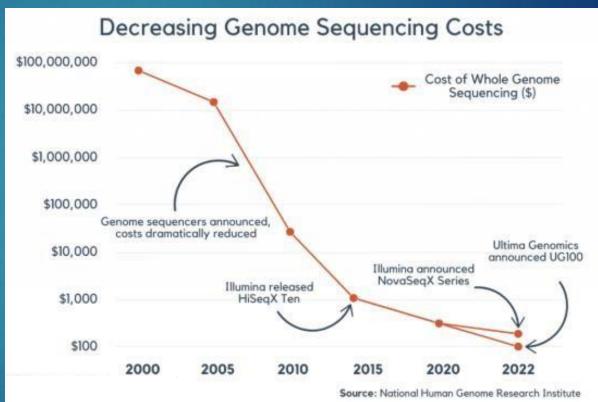


S. Mejri 2020



All Genomics Everywhere





+ Our Future Health

UK: 6M citizens

National government-funded genomic-medicine initiatives around the world (Nicolaus, 2019)



Precision Medicine Depends on Data... what Data?



Predictive Emergent clinical observations

Needs patient data

Preventive

Behavioral, socioeconomic, environmental data

Needs patient data

Personalized

Population-scale modelling

Needs patient data

Participatory

Direct patient involvement

Needs patient data





Fragmented Patient Data Undermines Health and Innovation

Data is Essential For Patient Health, Yet:



Most data is outside hospitals (wearables, molecular, lab tests)



Limited commercial datasets, siloed and hard to access



Brokers depend on "patient data abandonment": one-off snapshots





Infrastructure is a Hard Problem

Beyond 1 Million Genomes

The **Beyond 1 Million Genomes (B1MG)** project is helping to create a network of genetic and clinical data across Europe. The project provides coordination and support to the 1+ Million Genomes Initiative (1+MG). This initiative is a commitment of 24 EU countries, the UK and Norway to give cross-border access to one million sequenced genomes by 2022.



- Lack of expertise
- Low participation
- Misaligned incentives





Our Lives Depend on our Data. What is YOUR DATA's longevity?









Individual Tokenised ID

Long-term value — One-off snapshot

Rich Data

Data abandonment





Adversarial Incentives: Industry Relies on Patient Data Abandonment



Individual

Tokenised ID

Environment



Business boundaries



Long-term velle — One-off snapshot



Rich Data Data abandonment





To Make Precision Medicine real, We Need to Realign Incentives





Precision Medicine Depends on Life-long Patient Data

The End of Artificial Data Scarcity



Individuals control and manage all their data, for life



Data sourced from patients: no more silos, no interruptions



Life-long enrichment of personal data: no more guesses

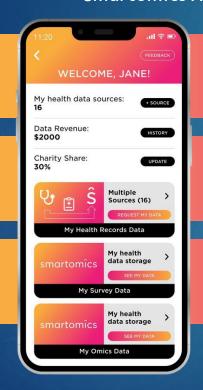




Axia Medicine is the only platform where patients control their data and can share it with industry, on their terms



PatientsSmartomics App



Take control of your health data

Monetize your data for research

Access Industry services



The Most Comprehensive Picture of Personal Health

Individuals Drive and Shape the Health Data Economy

Evolving Needs, Evolving Industry Engagement: No More Silos







Conclusion



- Precision Medicine is the foundation of healthier, longer lives
- Data Infrastructure is an unsolved challenge
- Misaligned incentives on data undermine Care and Research
- · Patient-driven Data Governance is the key to longer, healthier lives
- To Live Longer, you MUST control your Health Data







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