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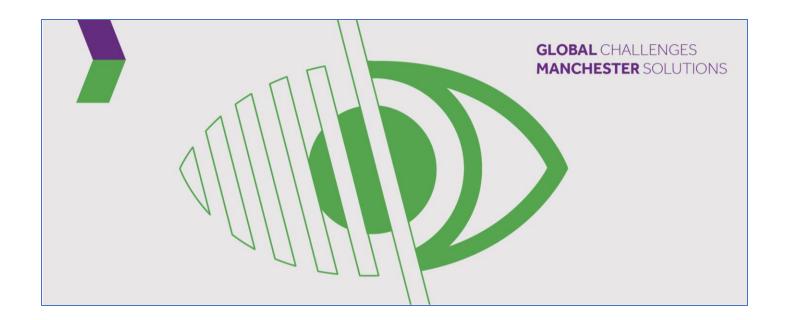
PROFESSOR GRAEME BLACK

CONSULTANT GENETICIST AND OPHTHALMOLOGIST AND GEN-O PRODUCT OWNER, MANCHESTER UNIVERSITY HOSPITALS NHS FOUNDATION TRUST













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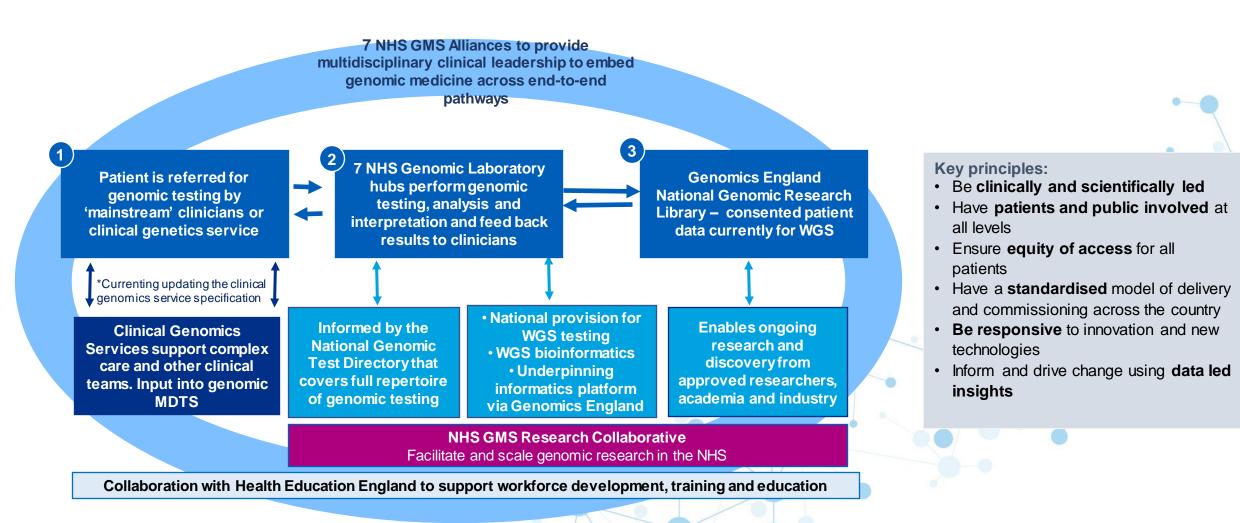


GEN-O: Enhancing decisionmaking for genomic medicine

The NHS Genomic Medicine Service



Aim: To enable the NHS to harness genomic technology and scientific advances to improve population health and patient outcomes



Key changes and improvements



- The **embedding** of genomics into **mainstream clinical pathways** (referred to 'mainstreaming' genomics)
- Care for patients and their families will be provided in a **coordinated way** (referred to as 'coordinated care') with CCG's **working collaboratively** with other parts of the health and care system
- **Equitable access** to genomic testing in the NHS (referred to as 'Equity of Access')
- Improving outcomes for patients and their families by supporting the reduction of the 'diagnostic odyssey' and speeding up diagnosis
- NHS CGS's will **form networks aligned** to the NHS GLH and NHS GMS Alliance geographical footprints (referred to as Networked Care Provisoin) to **improve access** to care services
- Workforce planning and development to ensure that services can function effectively







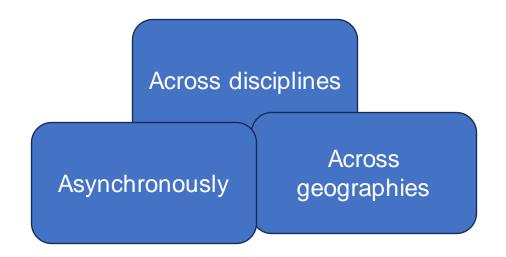




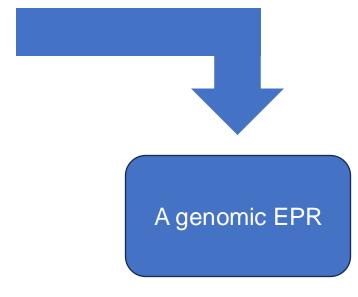
What's missing? 'The clinical gap'

Clinical needs:

An increased workforce that can work...



The solution: an IT solution that supports the adoption of genomic medicine













Existing practices

Current solutions are limited:

Traditional EPR

Family based record

Clinical solutions

Research origin, often laboratory based

"Genomics is no longer a technical problem, it is a data handling problem"





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What is GEN-O?

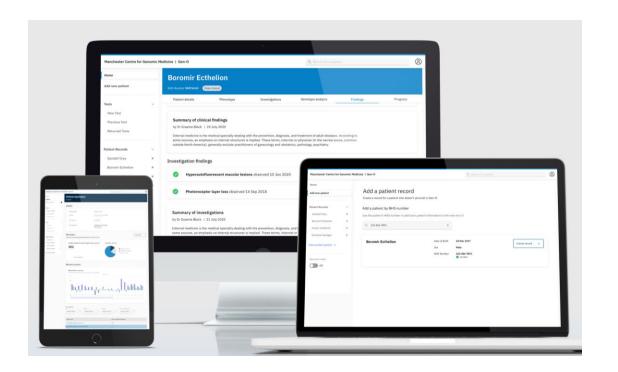
GEN-O is a...

Genomic patient record management and collaboration tool
Currently underpinning clinical practice in ophthalmology at MFT

It was created...

By a team at Manchester University NHS Foundation Trust and is used as a tool underpinning clinical practice in the:

- •MFT clinical genomics service
- Manchester Centre for Genomic Medicine (MCGM)



Pilots are being run...

- •At Alder Hey and the Northern Care Alliance (Salford) to gather feedback and test with new groups of users
- In ophthalmology and neurology specialties





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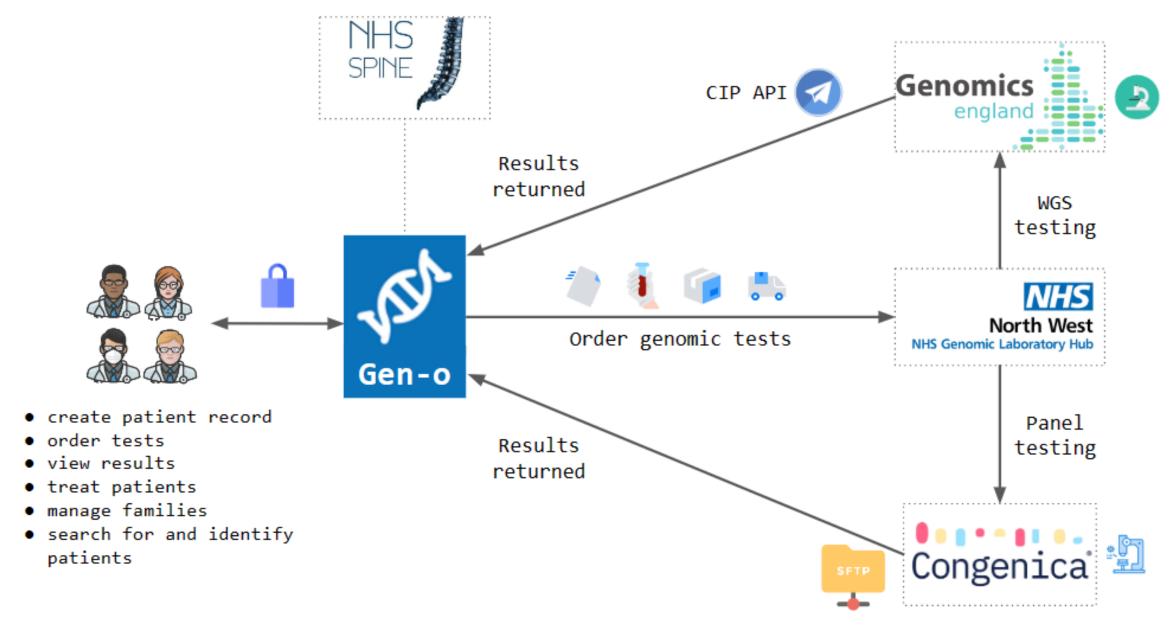
Scaling across Greater Manchester with Answer Digital

- Scale GEN-O to function across to multiple trusts
 - MFT Northern Care Alliance; Alder Hey
- Connect to national solutions
 - Genomics England Clinical Interpretation Platform
 - Developing an API to bring in data from Genomics England
- Mitigate challenges
 - Working with IG / IT across multiple trusts
 - Intercalating with EPR
 - Limited financial headroom



Scan to read the case study about the scaling of the project









Results so far

- Successfully bringing genomics to mainstream medicine to improve clinical practice
- Expanded utilisation has been well received by clinicians
- Expected to reduce time spent on administrative tasks by 70%
- ✓ Improving the utility of multidisciplinary team (MDT) meetings
 - Next steps remain challenging
 - Wider roll out to further sites and specialties
 - Strategic ownership and vision