

Aligning digital investment to deliver optimal benefits across an ICS footprint

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Technology will help us to address the many challenges and inequalities we face across Greater Manchester.

2.8m population

Growth of 170,000+ in the last decade

77.8 men's life expectancy

Below England average of 79.5

441,000 aged over 65

Growth of 50,000+ in last 25 years

65,700 unemployed

4.9% down from 6.2% the previous year

£22bn resource

£7bn gap between public spend and tax income

81.3 women's life expectancy

Below England average of 83.1

12,000

children not ready for school

At the end of early years foundation stage



15,300 (26.8%), up from 22.1% the previous year



Aligning health and wealth to tackle inequalities





We work with innovators to

discover, develop and deploy

new solutions that improve the health and wellbeing of Greater Manchester's citizens.

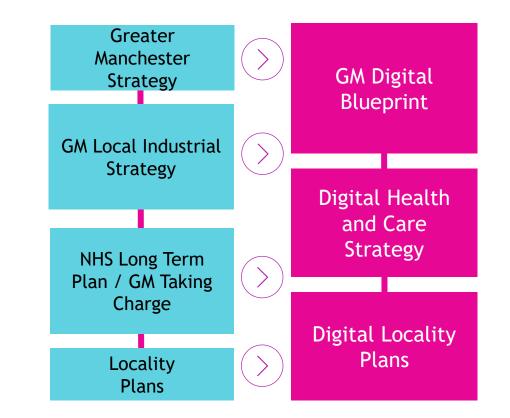




Maximising digital technology is central to achieving Greater Manchester's radical reform plans and improving citizen outcomes.

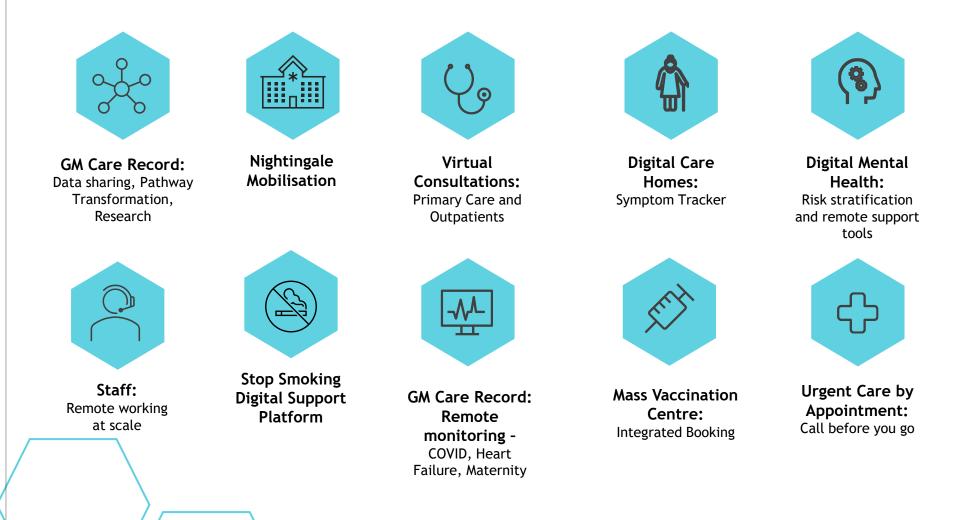
Digital vision:

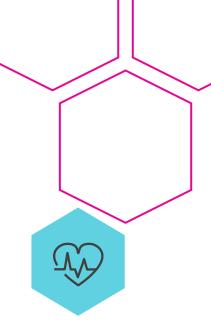
Improve outcomes for Greater Manchester citizens by harnessing the power of technology to better understand our population, identify their need and transform care. We will use technology to empower people to take greater control and accelerate innovation into practice.





We made significant progress on digital delivery in response to the pandemic

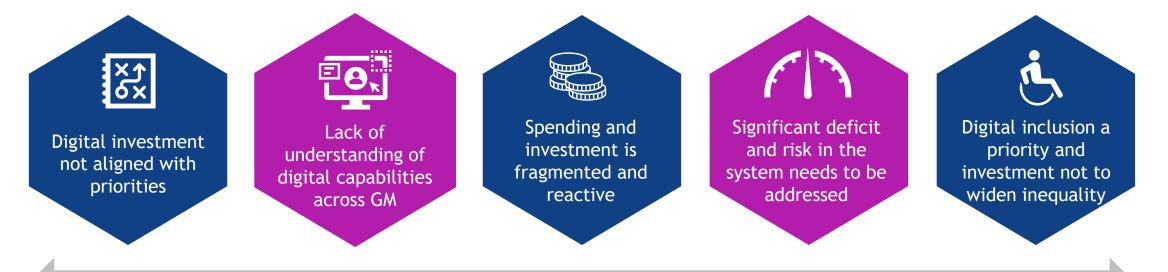




Smart Hearts: Remote monitoring of embedded heart devices

Population Health and Analytics Platform

For the ICS to be successful, we needed to develop a deep understanding of digital investment challenges



System-wide 3-year digital transformation plan



Digital investment priorities using an outcomes and citizen pathway-based approach

Identify	
Outcomes	

Outcome inputs:

Long Term Plan

GM Taking Charge

Locality Plans

Local Industry Plan

Covering:

Citizen health and wellbeing outcomes Social determinants

Economic Potential

Understand Improvement **Opportunities**

Assessed through multiple lens:

Citizen cohorts

Service Transformation Priorities (cancer, mental health etc)

Care Settings

Define & **Priorities Digital Capabilities**

Identify prioritized digital capabilities:

21 capabilities critical for transformational change

26 technical enablers

maturity & assess current level

Set required

Determine required level of maturity (1-5) for each capability:

Foundational (min level required to manage risk)

Aspirational (target level to support outcomes)

Assess current level of maturity

Prioritise Digital Investment

Prioritise investment to create 2-3 investment roadmap:

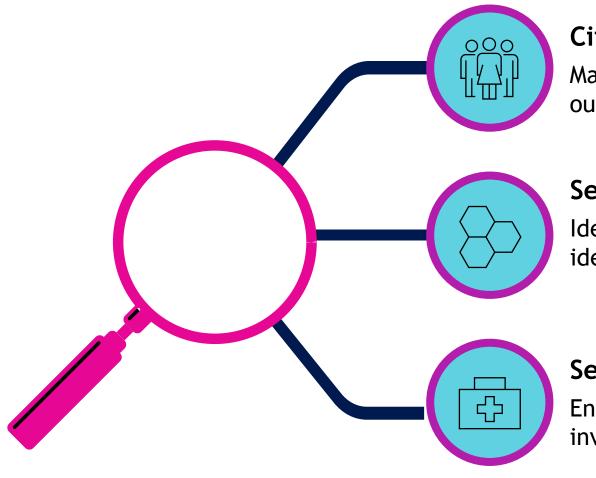
Quantify investment required to achieve Foundational and Aspirational

Match available funding sources to required investment and determine gap

Make priority calls on investment



Opportunities for improvement and priorities identified via a systematic method



Citizen Cohorts

Mapped the opportunities for improvement and outcomes for four illustrative cohorts

Service Transformation Areas

Identified the changes in the model of care for STAs to identify national/local

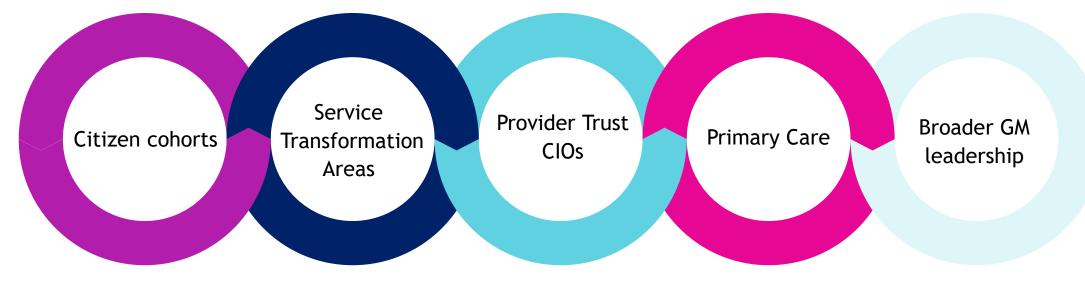
Settings of Care

Engaged across settings of care to understand investment needs



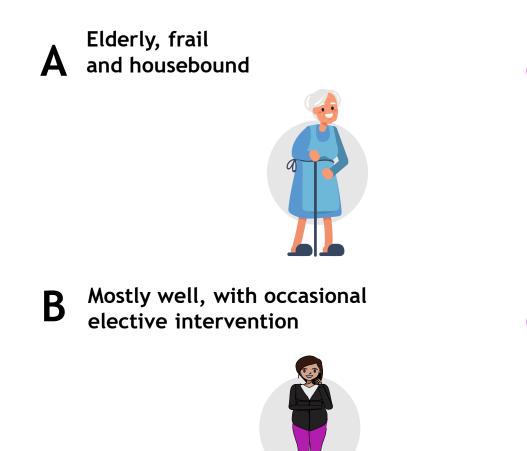
Developing a system-wide digital investment plan

We have developed a digital investment plan based on user insights and engagement with 120+ GM clinical and leadership stakeholders



A The work was framed from the perspective of four illustrative citizen cohorts with different needs

% of GM population¹





Middle-aged, multiple health needs,
lifestyle challenges





Family, with young children and wide-ranging needs









Four citizen cohorts were developed to understand the opportunities for improvement and how digital could address these



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Digital and data capabilities required for an ICS and underlying technical systems and enablers

Digital and Data capabilities



Technical systems and enablers



Digital and data capabilities required for an ICS and underlying technical systems and enablers

Digital and Data capabilities

Provide coordinated & Operate efficiently and productively Empower the citizen Accelerate research and Understand and plan for population health needs integrated care innovation Optimize the allocation of people, Person-centred care, tailored care Understand population health time and tasks to where the impact services - which support patient 40 Services which support. Bring health and care data and value is greatest autonomy, initiative, and ownership needs and inequalities using integrate and place equal together to enable future analytics to allocate resources emphasis on physical, innovations and future outcome Targeted, tailored and Digital front door and and tailor care programs emotional and social needs improvements personalised comms navigation Demand led Robotic process Health record accessed Multi channel Understand and predict population management of Integrated shared care record Research data automation health need capacity & scheduling bv citizen consultations Care coordination: inc complex high System monitoring and Decide and design care Supply chain Remote monitoring Personalised care apps Innovation hub priority pathway management automation interventions transparency Real time staff. patient. Al enabled self Booking appointments Eventing: sharing actions and alerts Workforce equipment tracking help triage across settings of care

Technical systems and enablers

Specialist systems

LIMS

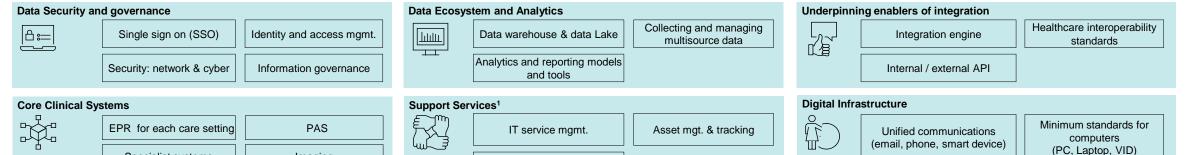
Order comms

Multi-resource scheduling

Imaging

e-prescribing

e-refferals



System for communication (any type)

Technical systems and enablers

Network estates

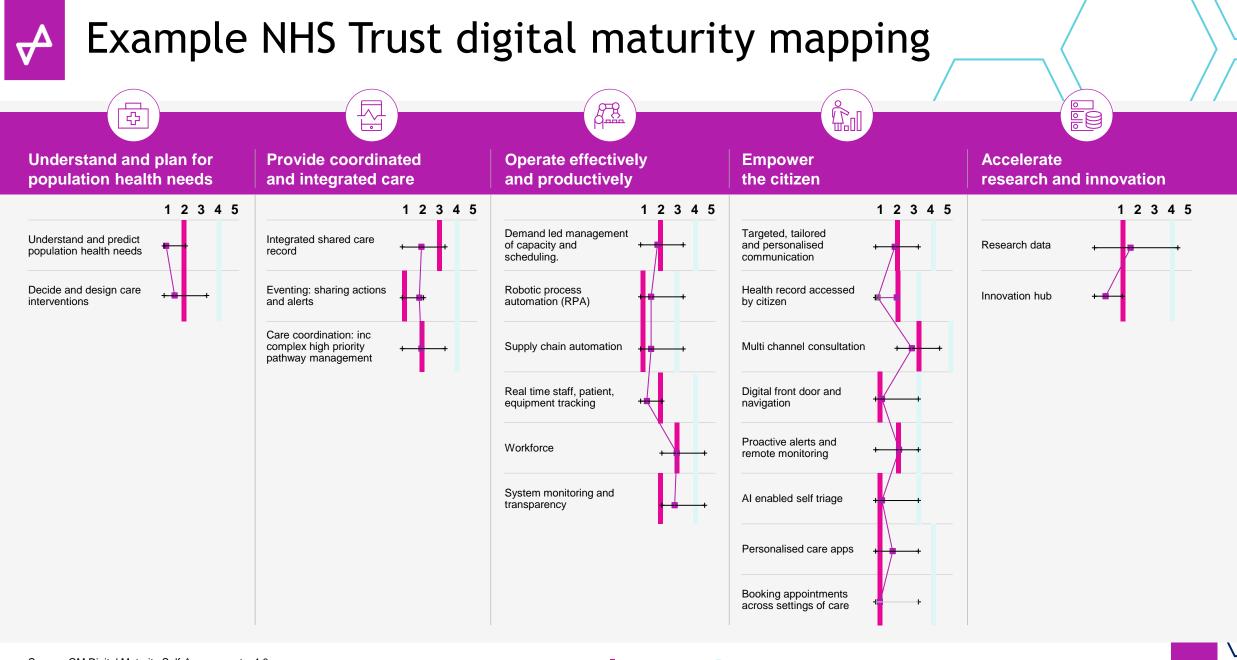
(incl. cloud)

Digital and Data capabilities

Networking

(WAN/LAN/WiFi/Beacons – GM

wide area network)



Source: GM Digital Maturity Self-Assessment v.4.0 1 GM results for digital and data capabilities formed from 10 Trusts and 2 GP practices

Foundational Aspirational GM Low + GM High GM Average

Example: GM Care Record - benefits realisation project

Reimagine

1 Understand



Undertake a diagnostic of current usage of GMCR across care settings

Scope of work:

- Understand who, uses the record, where and why
- Map usage to current feeds and functionality
- Understand locality GMCR roll-out plans
- Undertake a rapid evidence synthesis of shared care records in the NHS to understand what drives up usage
- To understand current practice and challenges with
 - MDT care planning, remote monitoring and PHRs
 - Cohort ID and case finding

Define opportunities for improvement, driven by outcomes, including improving usability.

Scope of work:

- Gap analysis that identifies any feeds or functionality missing, or sectors without access
- Develop a workforce-persona based view of the reimagined experience of the GMCR
- To develop targeted training and comms plans to drive up usage
- To align on multi-agency care planning strategy and care plan rollout
- To respond to the remote monitoring strategy and optimize capabilities
- To design the functionality of a single shared analytics pipeline
- To develop a roadmap for proposed analytical use cases supporting secondary care

Increase usage based on insights across GM care settings

Scope of work:

Implement

GM level:

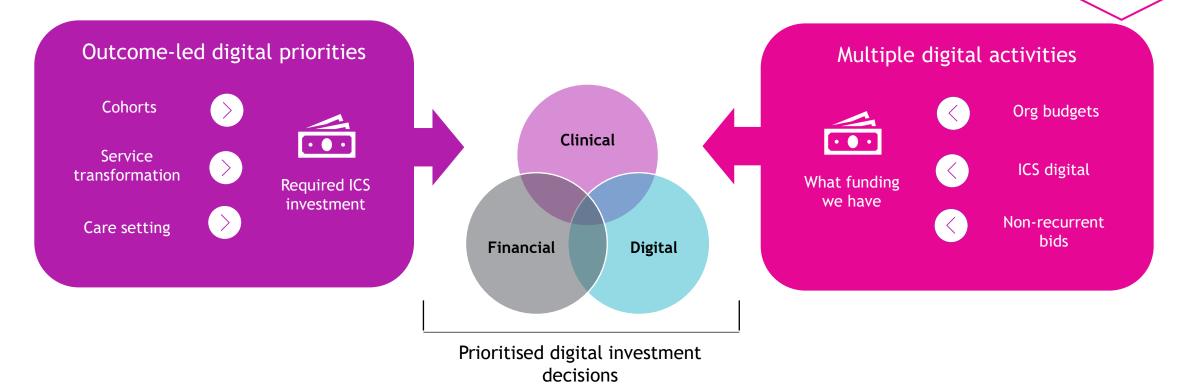
- To deliver the detailed feeds, functionality and sectoronboarding roadmap to each persona group with supporting materials
- To deliver a targeted training and comms campaign in Secondary Care and Pre-hospital services for increasing usage and benefits, training in basics and new functionality, based on the insights gathered

Local level:

• Empower local clinical champions to run the training on the ground

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We need to make evidence-based decisions on digital investment to deliver maximum benefits for patients, services and the ICS



Thank you

Health Innovation Manchester