

# Moving Forward Together: Building Future Health and Care Services NHS Greater Glasgow & Clyde

Event Supporter



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# Session Speakers



## Chair

Jane Grant, *Chief Executive*



## 1. Planning for Transformation

Fiona MacKay, *Director of Planning*



## 2. New Clinical Models of Care

Dr Jennifer Armstrong, *Medical Director*



## 3. Digital

Denise Brown, *Director of Digital Services*



## 4. Infrastructure

Prof Tom Steele, *Director of Estates & Facilities*

# Planning for Transformation

# Moving Forward Together

This is an ambitious programme to transform health and care in GGC, where people will access the care they need.



The future is already here – tomorrow has arrived!  
Technology is driving change



Grasp the future and use these beginnings.  
Be pro-active and build confidence in our staff and patients.

# Moving Forward Together.

## MFT Implementation Strategy

### Background

In 2018 NHS Greater Glasgow & Clyde published a vision for its Clinical Strategy which is described in the ‘**Moving Forward Together**’ blueprint. The key driver is to achieve transformational change in services by creating:

- Less dependency on hospital beds by developing services in communities
- A tiered model of care with a small number of specialist centres and provision of care in homes and communities.



## A tiered approach

In 2018 NHS Greater Glasgow & Clyde published a vision for its Clinical Strategy which is described in the **'Moving Forward Together'** blueprint.

Significant clinical engagement contributed to this vision.

The key driver is to achieve transformational change in services by creating:

- Less dependency on hospital beds by developing services in communities
- A tiered model of care with a small number of specialist centres and provision of care in homes and communities
- Cross system working – primary care, mental health services, secondary care and community care.

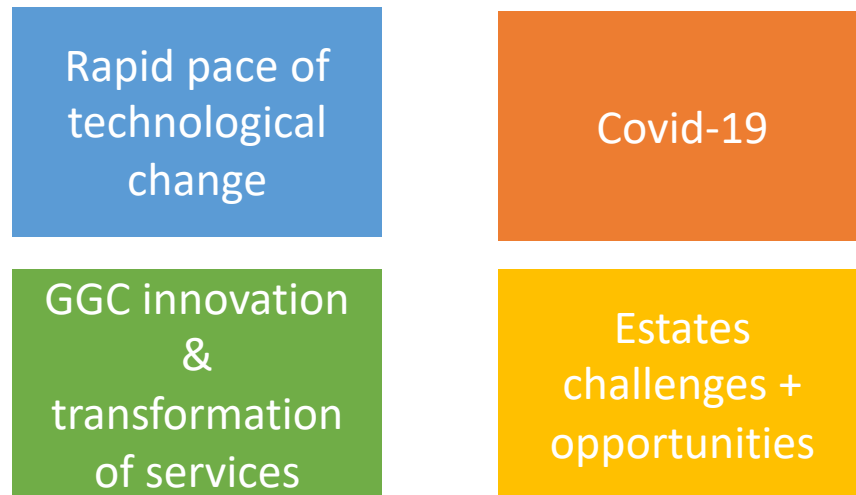


**Vision:** to have tiered model of care – Majority of care in local locality but recognition that specialist care is better delivered in a smaller number of sites.



# MFT Implementation Strategy

Since 2018 we've experienced significant change in healthcare delivery that we need to respond to:



**Clinical & Estate Transformation**

In 2021 we recognised that:

- MFT needed to be updated to reflect learnings from COVID-19, the impact of eHealth on service delivery and to scale-up innovation that is already being delivered across GGC.
- An MFT **Implementation Strategy** was required to further develop MFT and provide the estates response
- The response needs to be data driven, system wide, and reflective of the then emerging Digital Strategy
- A Clinical Roadmap is being developed as a working document to capture the further development of MFT post pandemic and 4 years further on.

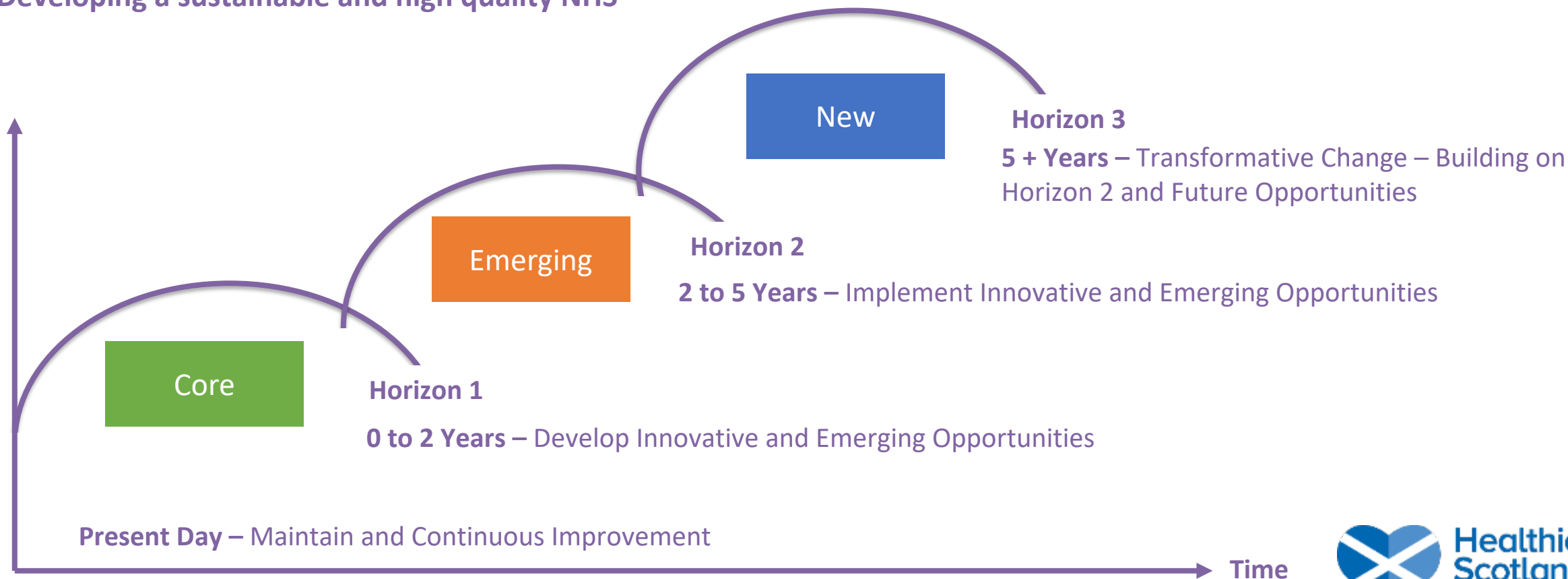
The MFT Implementation Strategy is a pathfinder to this evidence based approach to clinically driven estates planning for the Scottish Government and other NHS Scotland Health Boards.

# New Clinical Models of Care



## The Three Horizons

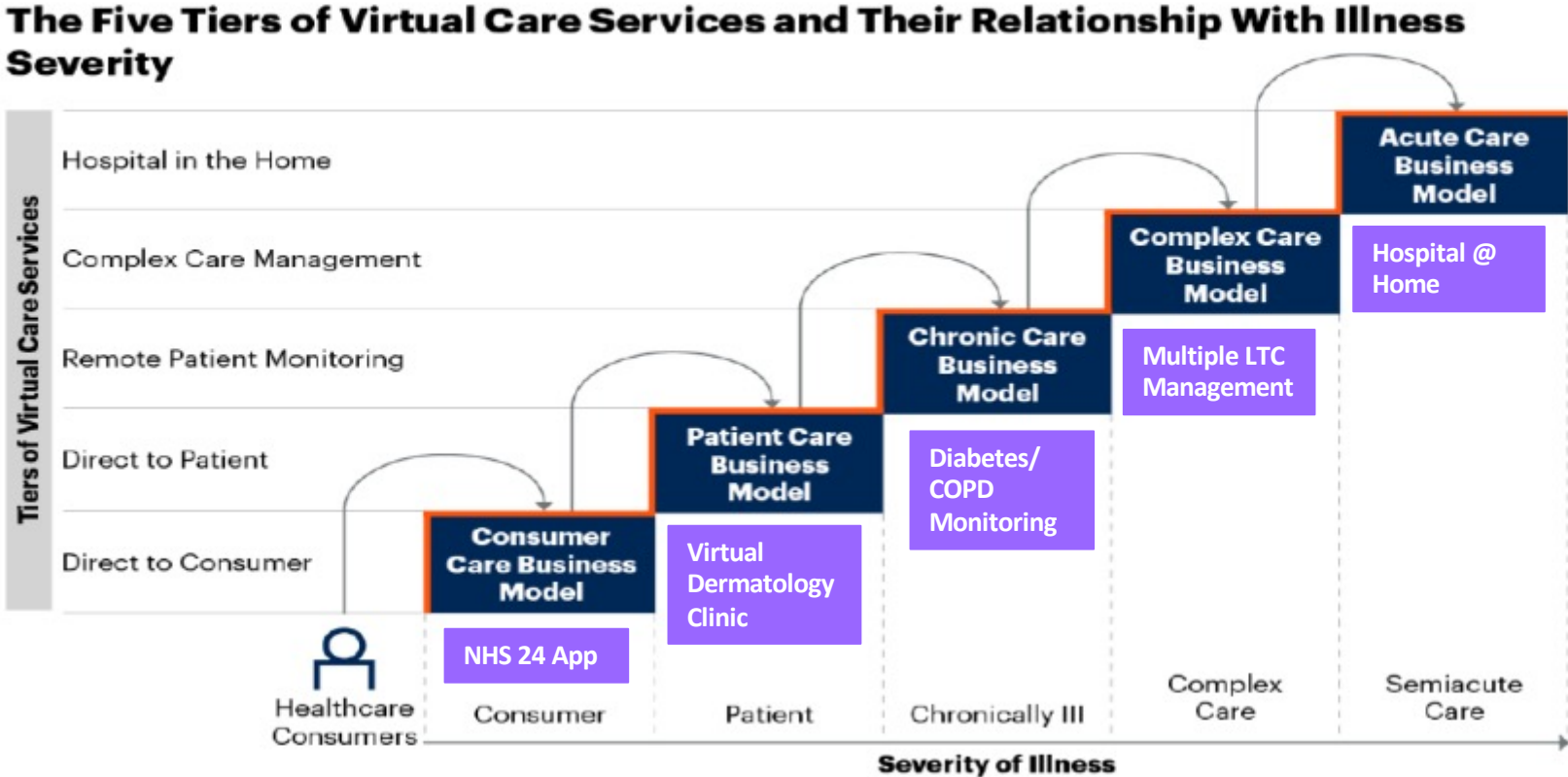
Developing a sustainable and high quality NHS



Adapted from McKinsey & Co

# Virtual Care

Figure 1: The Five Tiers of Virtual Care Services and Their Relationship With Illness Severity



Source: Gartner 734459 C

## Patient Experience

### Virtual NHS GGC Flow Navigation Centre

- 97% of people who used the service said they would use it again
- The service is used by all ages (from under 16 to over 75)
- Over the past four months, the service has seen 5,501\* patients virtually
- 80% of consultations are done using Near Me
- 91% of people had a positive experience.

“I avoided an unnecessary visit to A and E – calling 111 first was definitely the right decision. The whole process was less than an hour in total, rather than sitting in a busy waiting room for hours.”

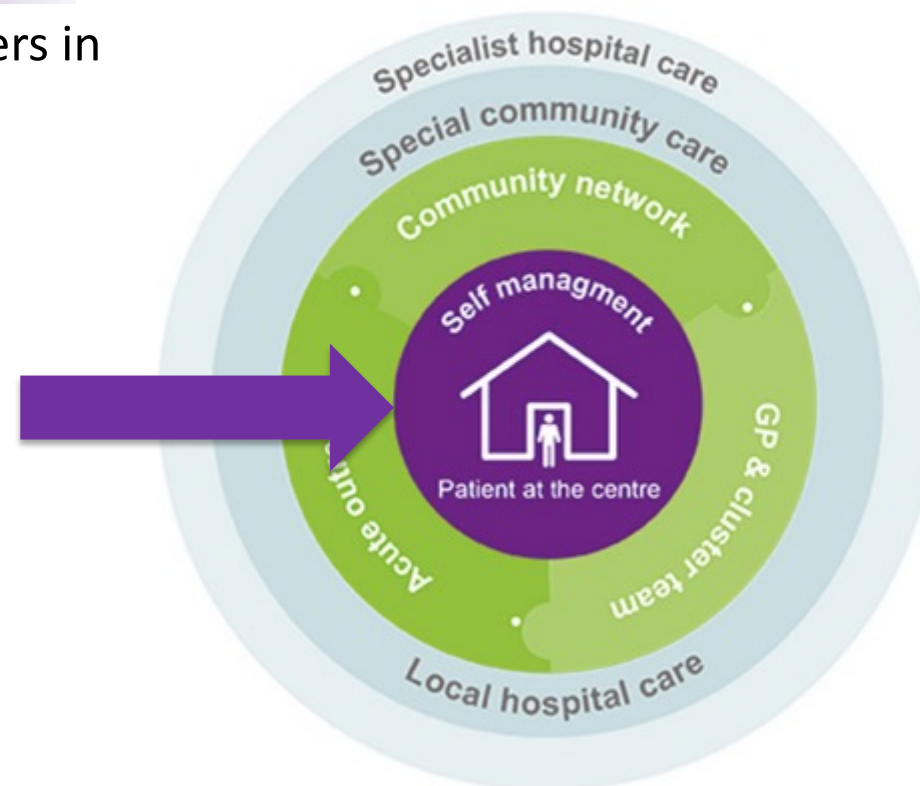
“For me, being heard and understood by the call handler and nurse, especially as I was anxious about my child, was important. The call handler and nurse were lovely and approachable. This also helped me stay calm.”

## What will GGC look like in 10+ years time?

### Homes

In homes across GGC, patients are active and equal partners in care:

- Public health messaging and education
- Prevention messaging and people confident to promote their own health
- Confident and understand chronic conditions, know triggers for escalation
- Remote monitoring of known conditions, with pathways for escalation and strategies for managing concerns
- Quick and easy access to increased levels of care
- Care reaching into people's own homes e.g. Home First Response Team, virtual wards and Hospital@Home.



### Virtual GGC



- This is based on international models from North America
- Telehealth and telemedicine have developed into a new concept – the Virtual Hospital
- Virtual Hospitals are those where clinicians can provide remote care to patients based in another location through a number of smart monitors and AI devices
- The services could be provided from a centralised command centre
- We would be able to manage physical acute and community beds, and virtual wards from a single central command centre
- Provides benefits of scale and avoids duplication, inconsistency and inefficiency across the system by bringing teams physically close together.



### Community Hubs (100k-150k pop.)

- Multi purpose clinical spaces with extended access days and times, flexible and shared rooms and spaces
- Services to include:
  - AHPs and rehabilitation
  - Comprehensive assessment and measurement
  - Secondary care input
  - Mental Health
- Health improvement and prevention services in partnership with the Third Sector



## Mental Health

- Patients supported to be partners in care planning
- Some specialist Board/Regional/National services provided on a single site
- Optimisation of Mental Health inpatient units providing adult admission and IPCU services
- 2 Mental Health Assessment Units
- Community mental health teams and primary mental health services
- Computerised CBT Services and app based services
- Health and wellbeing hubs in communities





## What will GGC look like in 10+ years time?

### Social Care

- Optimising use of technology to support independence
  - Wearables
  - Overnight monitoring
  - Alarms and sensors
- Rehabilitation Services reaching into acute services and into homes
- Intermediate care beds in local communities
- Smart homes and future proofing homes for frailty and dementia
- Resilient home care services and Care Home sector



### Acute Care

#### Elective Centres

- Protecting elective capacity, and maximising productivity
- A tiered model of surgical services

#### Specialist Centres (GGC population and wider)

- Examples include Dental Hospital, Beatson and INS

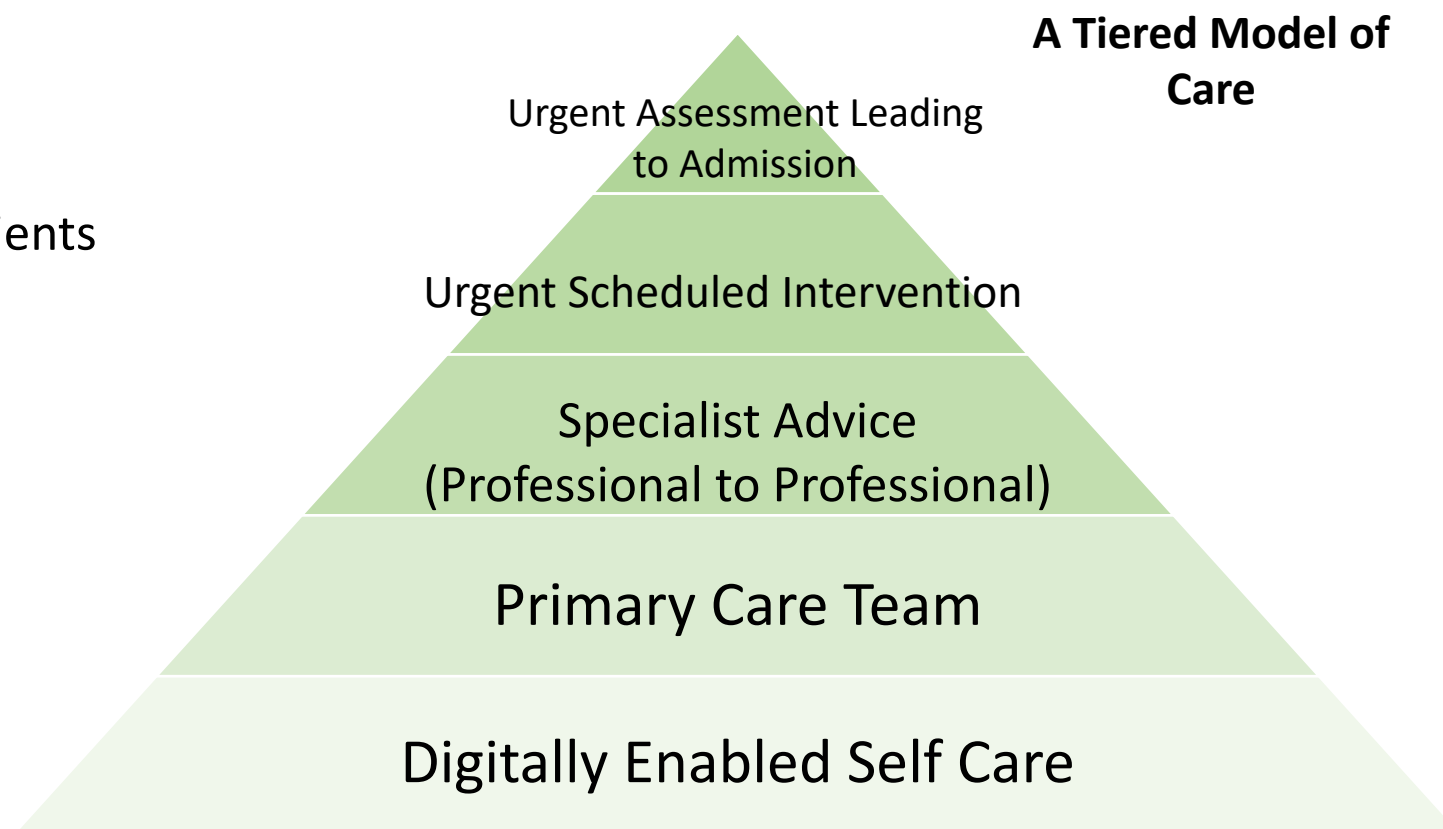
#### Other Acute Services

- QEUH single highly specialised acute site acting as Trauma Centre for West of Scotland, and providing all specialist tertiary services (pop. 1.2m+). Also providing general acute services for South sector.
- GRI and RAH as Trauma Units and major acute hospitals providing services to the North and Clyde sectors
- IRH as a local Emergency Hospital, providing a range of services for a population which is more deprived and distanced from major acute sites, also providing elective care for wider GGC population.



## Principles

- Call Before Convey
- Schedule urgent care when possible
- Simple access to urgent care for patients
- A co-ordinated urgent care service



## Unscheduled Care - An Example

### Horizon 1 – Core: Continuous Improvement

#### Key Activities:

- Consistency among services and sites
  - Pathways
  - Services
  - Rapid Assessment and Care Unit (RACU)
- Appropriate redirection
- Real time data to support direction
- Professional to Professional
- NHS 24 App

Digital approaches are beginning to change the way we deliver services. There are some bottlenecks and inconsistencies in our systems. Patients are beginning to use technology to improve flow.

## Unscheduled Care - An Example

### Horizon 2 – Emerging: Innovative and Emerging Opportunities

#### Key activities:

- Coordinate the virtual offering
- Co-locate urgent care and share responsibility
  - GP OOH
  - FNC
  - ED
  - SAS
  - MIU
- Team Service Planning
- A digital front door, supported by Apps

Our digital offering is becoming more co-ordinated. Patients are increasing in confidence to manage their own conditions and to access support as it is needed.

## Unscheduled Care - An Example

# Horizon 3 – New: Transformative Change

### Key activities:

- eHealth nerve centre
  - based on international models
- Use of artificial intelligence for triage/first point of care – a digital front door
- Only ambulance patients or those seriously ill/injured attend EDs unappointed
- Maximise use of Hospital @ Home and virtual wards
- Supporting self-care and CTACs

We will offer a coordinated route into urgent care. Our patients will understand the range of care available and will be able to step up and down the tiers as appropriate.

## Key messages

### Our Population

- Educated, empowered and supported by strong public health messaging to manage their own health

### Our Patients

- Co-participants in decisions about their care and in monitoring health

### Our Staff

- Continue to focus on care and compassion, as staff are supported to work in new ways and enjoy a fulfilling working life



# Digital

Using innovation and digital technology to transform care

# NHSGGC Digital Strategy 2023-28 Digital on Demand



## Strategic themes

- Data and clinical informatics
- Digital clinical safety
- Remote practice
- Citizen access
- Safer use of medicines
- Workforce digital literacy and skills
- Regulatory and cyber security



## Priority programmes

- Digital health and care records
- Innovation and systems development
- Safer diagnostics
- eMedicines programme
- Decision support
- Technology estate



[www.nhsggc.scot/downloads/digital-health-care-strategy-digital-on-demand-2023-2028](http://www.nhsggc.scot/downloads/digital-health-care-strategy-digital-on-demand-2023-2028)

# Enabling Strategies

- Adopt, influence and support national solutions

- West of Scotland Innovation Hub, testbed for new ideas and scale innovations



<https://www.gov.scot/publications/scotlands-digital-health-care-strategy/documents/>



<https://www.woshealthinnovation.scot/>

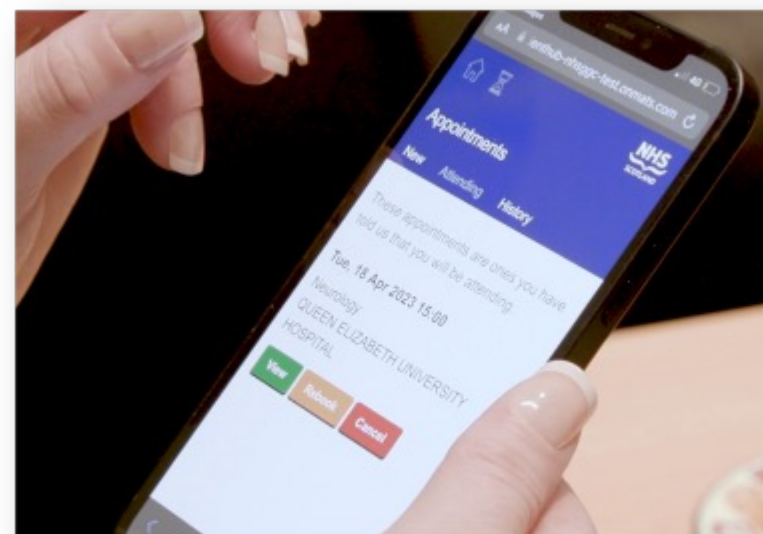
## Virtual Care - Citizen Access

- Providing short-to-medium term solutions in NHSGGC and feeding into the national Digital Front Door developments, focused on sustainability
- Progressing with PatientHub
  - Digital-first outpatient appointment notifications and attachments
  - Online pre-op assessment data collection / questionnaires, started with ENT Tonsillectomy
  - Regular results (HIV viral load, Lithium)



Further information:

<https://www.nhsggc.scot/hospitals-services/visiting-hospital/patient-hub/>



# Virtual Care - Blood Pressure Monitoring

- Primary Care pathway for blood pressure collection to support diagnoses, intervention, treatment, and ongoing monitoring
- Built on nationally procured digital solution for remote pathways
- Patients use standalone small basic medical equipment to take readings, enter on phone app, submits to clinical teams
- Live since December 2022 - 25% of NHSGGC GP Practices engaged with 1,050 patients opted-in
- Tests of change underway with same technology for community Heart Failure, Prostate Cancer pathway and IBD pathway



Further information: <https://tec.scot/programme-areas/connect-me/connect-me-clinicians/pathways/national-blood-pressure-service>



# Virtual Care – COPD (Dynamic Scot)

- Based on the sustained patient use, reduction in hospital admissions and range of improved secondary outcomes observed in RECEIVER trial and the DYNAMIC-SCOT COVID-19:
  - Co-designed digital service across clinical pathways.
  - Empower patients to better manage their condition at home.
  - Improve clinician's access to data and proactive personalised management for patients with COPD.
- Long-term condition management underpinned by early diagnosis, co-management, recognition and management of associated conditions, early response to deteriorations.
- Plus grown into further areas of digitally enabled service innovation:
  - Dynamic Scot - SG and NHSGGC funded for 2 year NHSGGC scale-up and NHS Lothian test-of-change (Mid-Lothian HSCP)
  - POLARIS Spirometry Astra Zeneca collaboration
  - NHS Scotland / CfSD ANIA pathway assessment

**Summary event rate results**  
Admissions and occupied bed days are reduced in the year following digital service onboarding in patients with COPD from RECEIVER trial and DYNAMIC-SCOT scale-up cohorts relative to event rates in a contemporary Safe-Haven control cohort.  
Source: Dynamic-Scot Clinical team final report, November 2021, Corlin G. et al

# Digital Pathology

- Collaborating and supporting research and innovation partnerships which bring external funding to build NHS capabilities
- InnovateUK funded iCAIRD programme focused on AI research in Pathology and Imaging, but also enabled service benefits



98% of histopathology slides at NHS GGC are being routinely scanned; 80% primary reporting is digital



Nearly 2m slides scanned, increasing by 50,000 per month.



£2m capital investment (and growing) by Philips; third largest Philips site globally



70 pathologists validated to report digitally; remote reporting trial underway



2PB of historical data - 600TB added each year – with resilient storage for a total of 7PB (5 years data)



Living laboratory with separate research environment, scanner and artificial intelligence integration capability

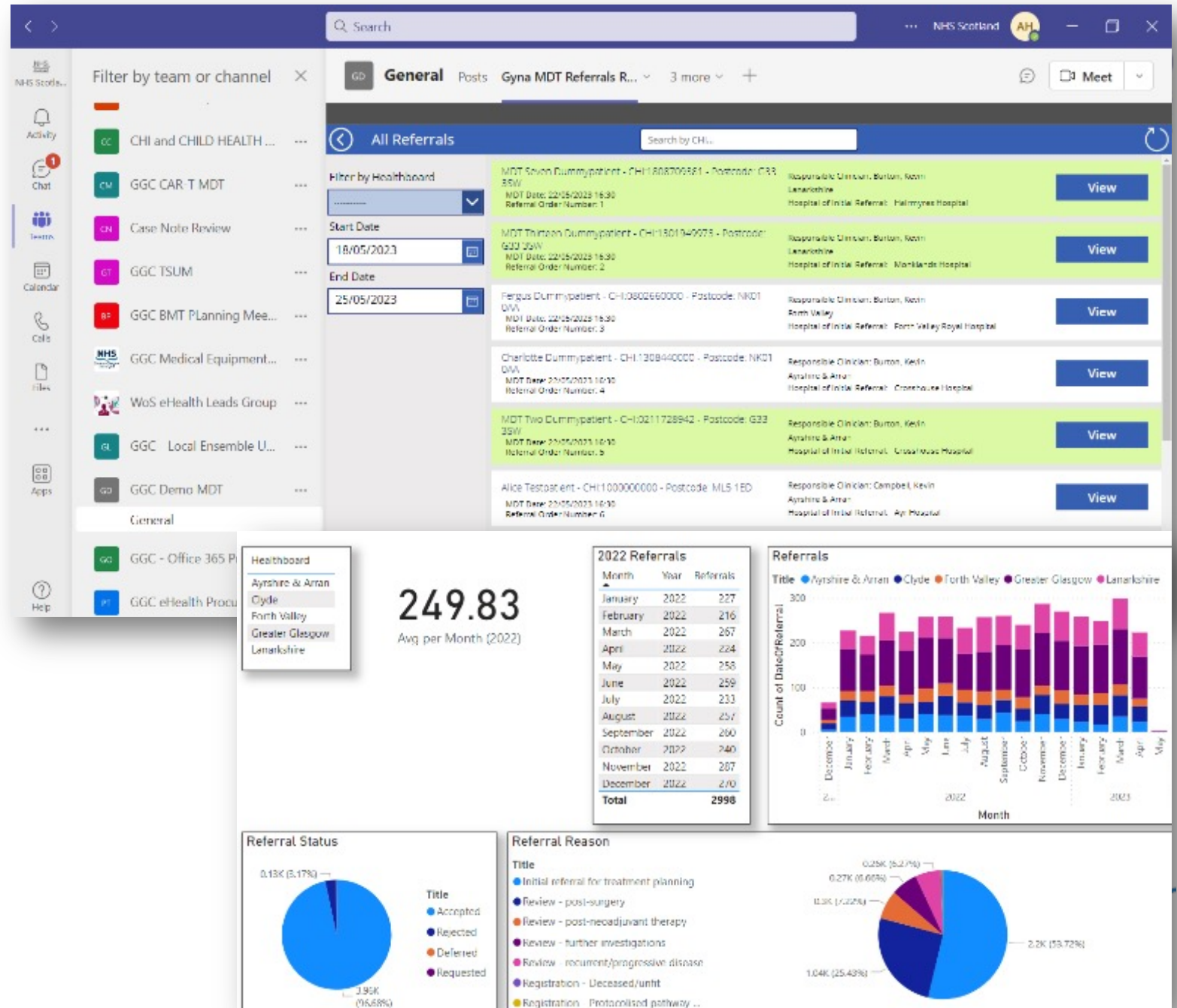


Quadruple national award-winning



# Cancer MDT

- A regional / national service with medical and diagnostic staff from over Scotland using the same platform
- There are two regional cancer MDT's live – Molecular Tumour Board (MTB) and Gyn with the system with two more planned for 2023 – Head & Neck and Pancreatic Cancer
- 3000 Gyn patients so far
- In-house developed on Microsoft Teams and Microsoft Power Platform tools
- Development approach - matrix development team across Boards



# Artificial Intelligence

- Artificial Intelligence (AI) potential to improve efficiency of services, improve patient outcomes and automate tasks
- The NHSGGC Digital Strategy 2023-28 seeks to establish a wider plan for exploiting, adopting, operationalising, and investing in AI
- Future AI Strategy for NHSGGC
- Portfolio of projects covering research, innovation, and significant focus on operationalisation of AI solutions – Referral Triage, Predicted Date of Discharge and Diagnostic Imaging

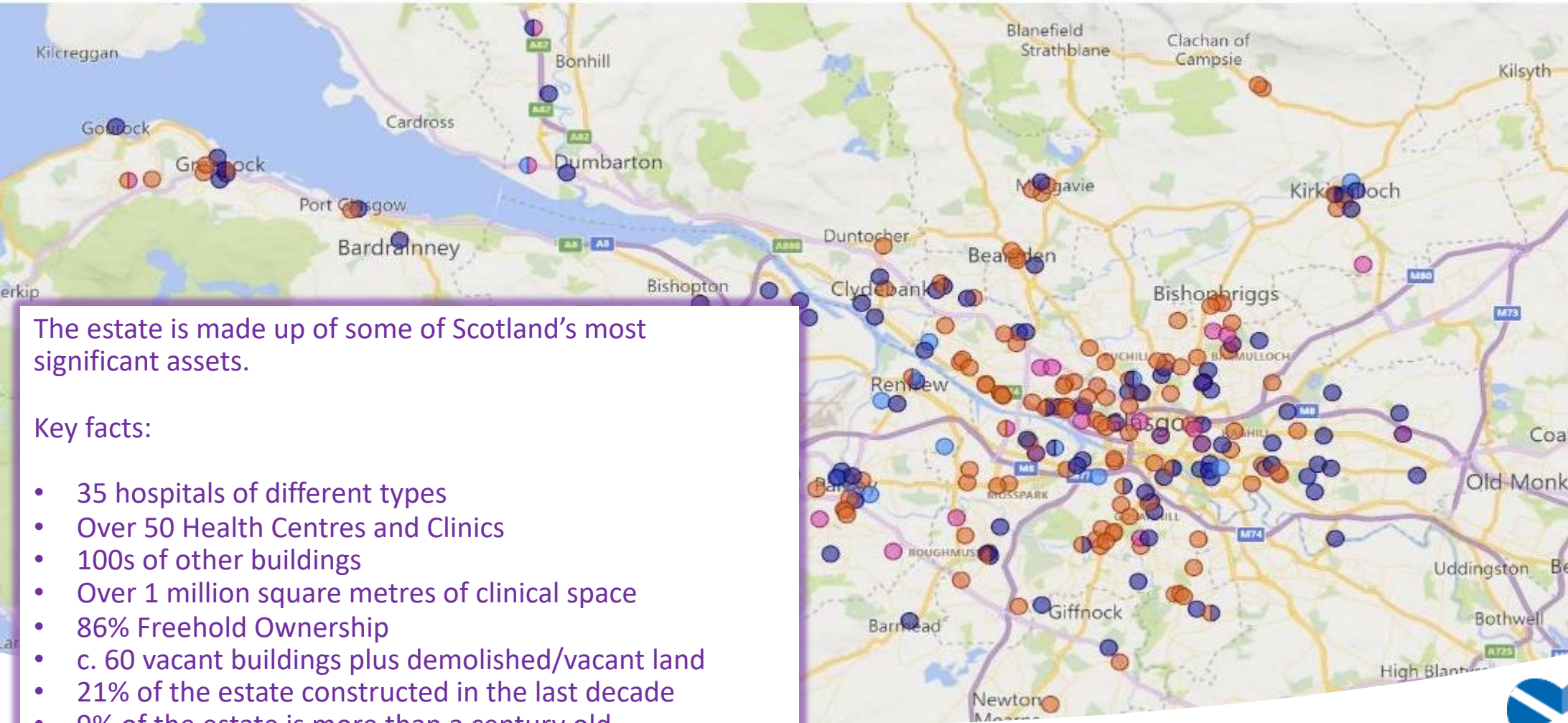
# Infrastructure



# Moving Forward Together.

## MFT Implementation Strategy

Type ● Acute ● Admin/support ● Commiunity ● Primary ● Specialist

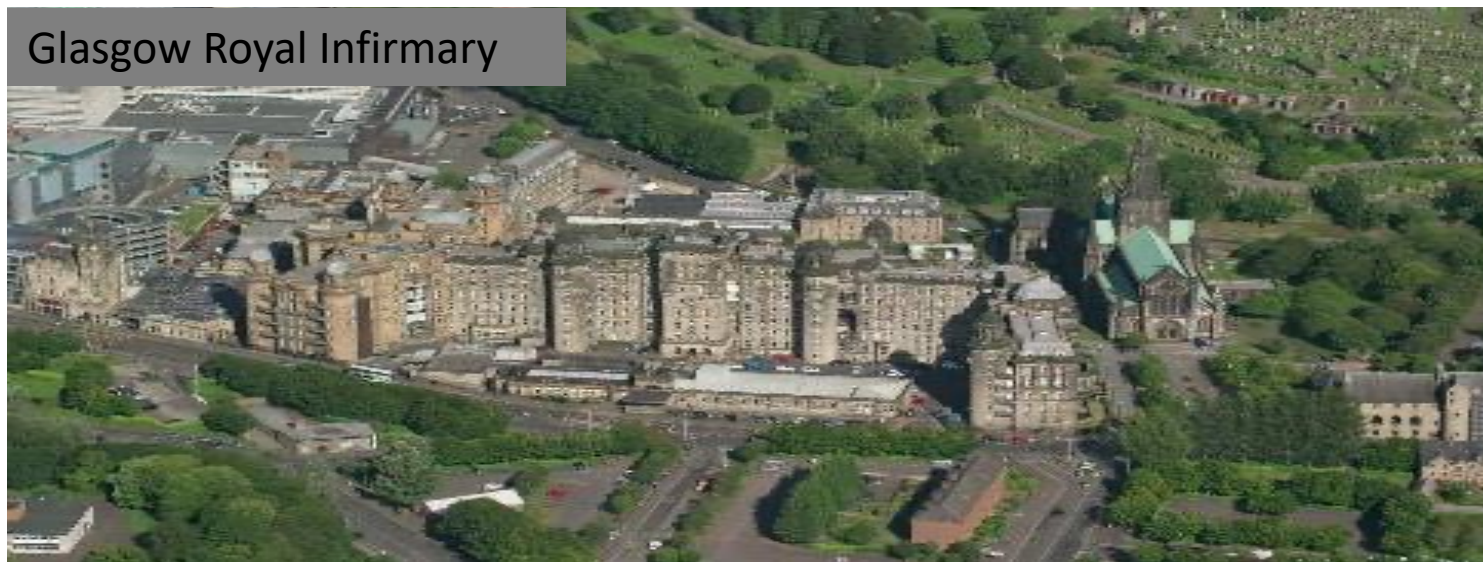


The estate is made up of some of Scotland's most significant assets.

### Key facts:

- 35 hospitals of different types
- Over 50 Health Centres and Clinics
- 100s of other buildings
- Over 1 million square metres of clinical space
- 86% Freehold Ownership
- c. 60 vacant buildings plus demolished/vacant land
- 21% of the estate constructed in the last decade
- 9% of the estate is more than a century old
- 14 PFI/DBFM = c. 10% of total GIA (124,313 sqm)









Vale of Leven

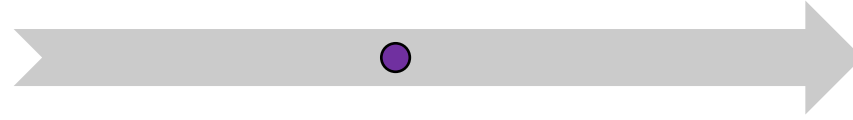


Inverclyde Royal Hospital



Gartnavel General





Royal Alexandra Hospital





# Moving Forward Together.

Gartnavel Royal Hospital



1990's



2000's

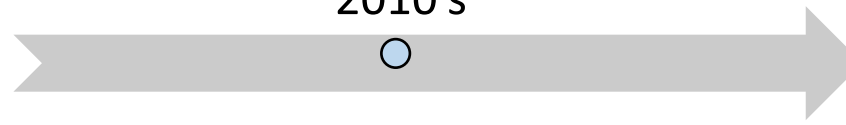
Centre for Integrated Care,  
Gartnavel



Beatson West of Scotland Cancer Centre







New Victoria Ambulatory Care Hospital



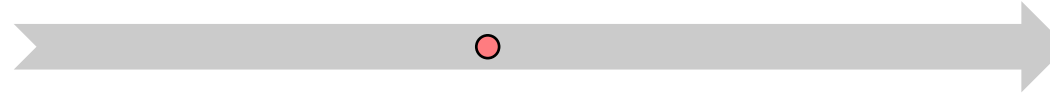
Queen Elizabeth University Hospital Campus



Stobhill Ambulatory Care Hospital







Greenock Health & Care Centre



Maryhill Health & Care Centre



Clydebank Health & Care Centre



Stobhill Mental Health Facilities





2020's



Orchard View, Inverclyde Royal



Gro Garden, QEUH



"Forget me not" mural, RAH



## Infrastructure Aims



Board wide, Programme Initial Agreement



Reflecting clinical and service need



Effective use to support digital and make our estate an enabler for this transformation



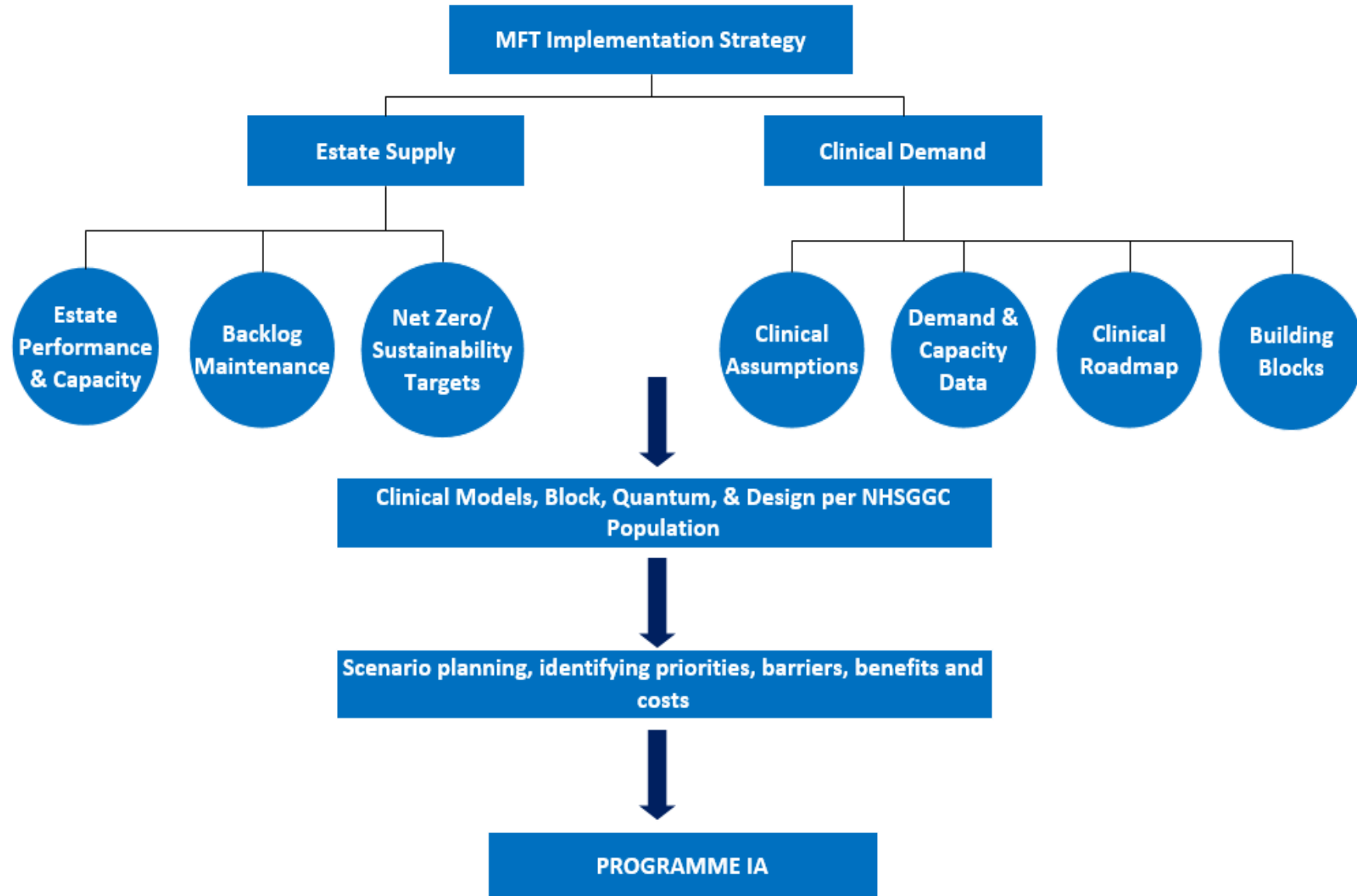
Prioritised projects



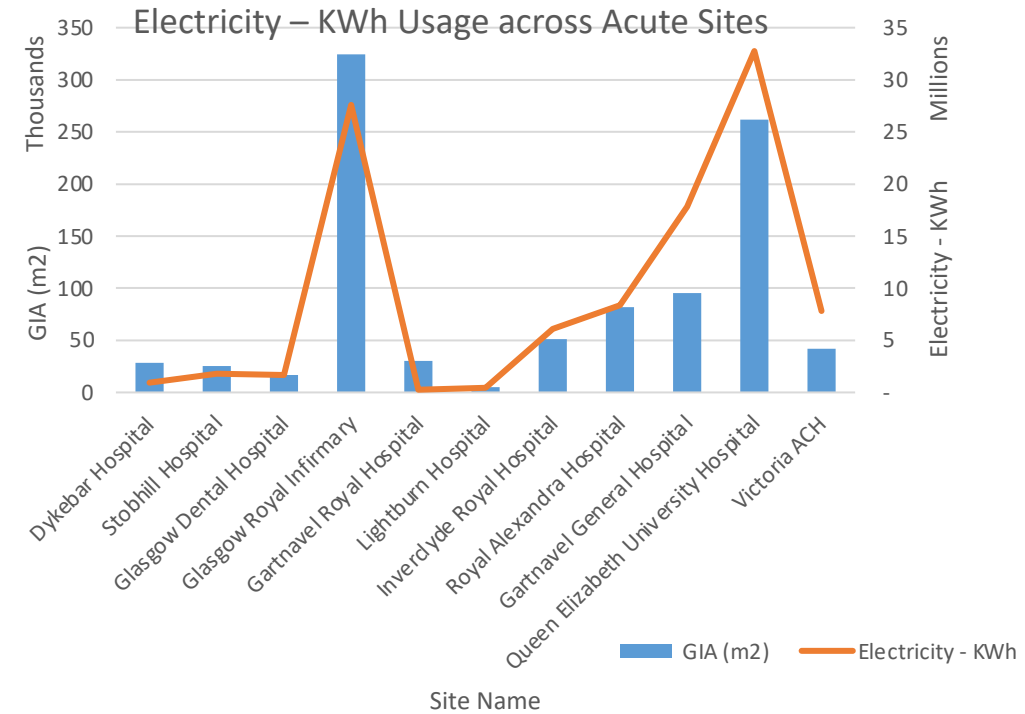
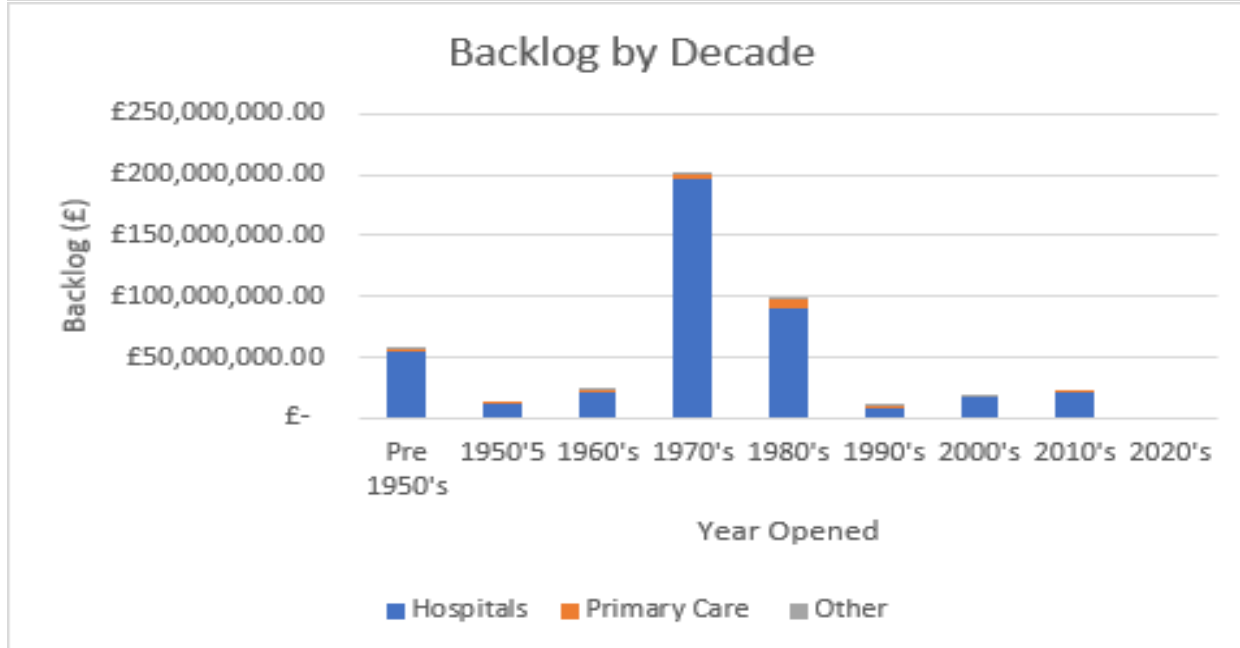
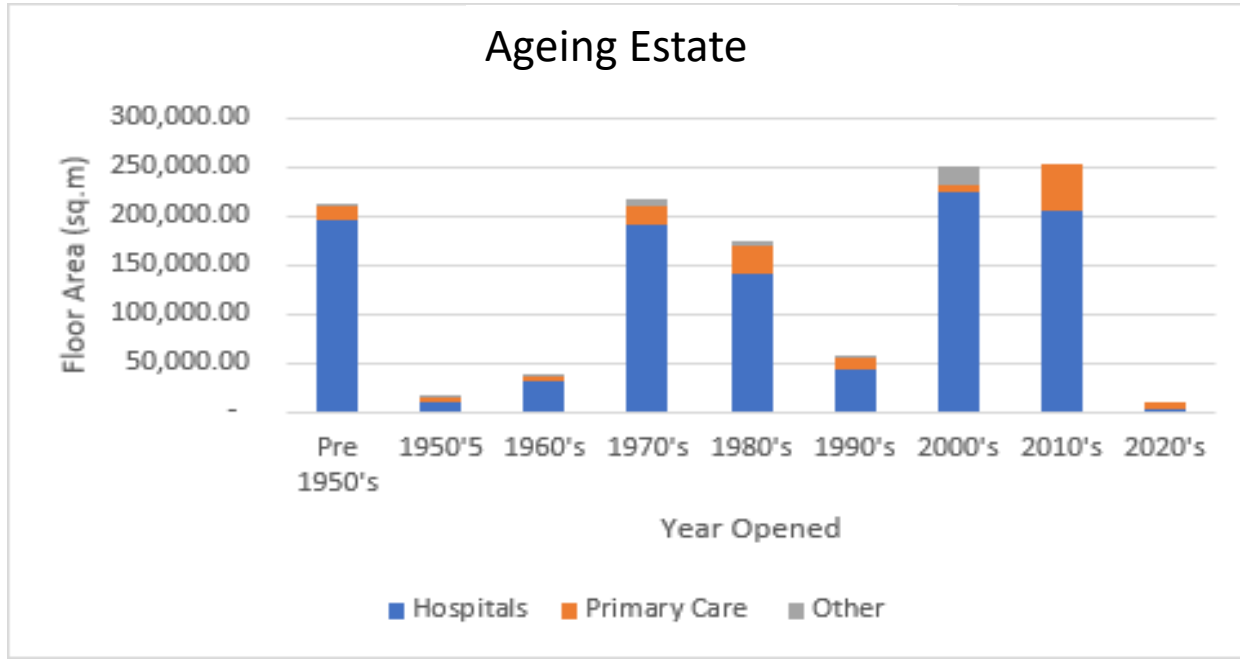
Make best use of what we currently have – we are aiming to make progressive improvements over the next 20 years to our estate



Support the 3 clinical horizons for developing a sustainable and high-quality estate infrastructure

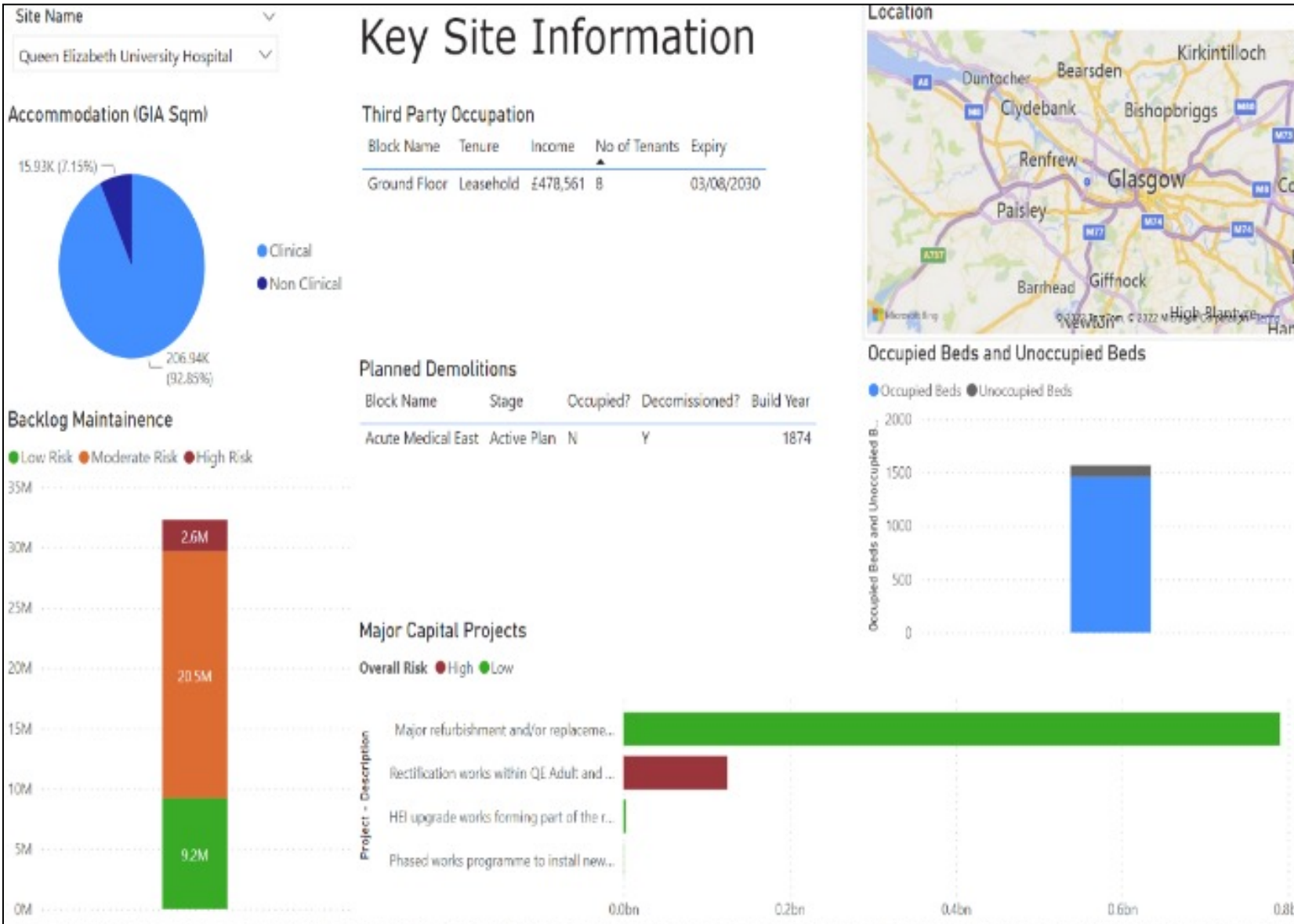




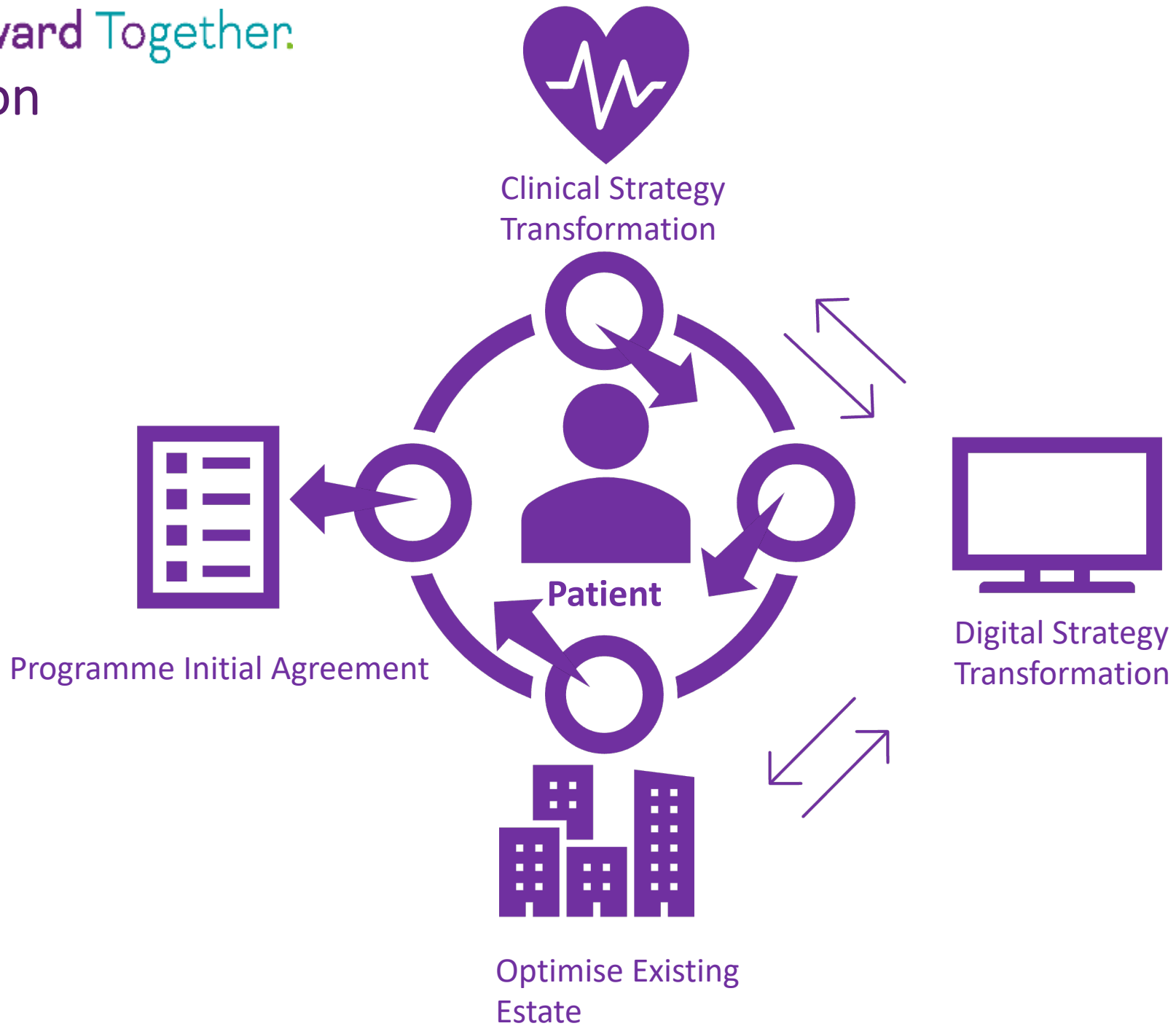


# Moving Forward Together.

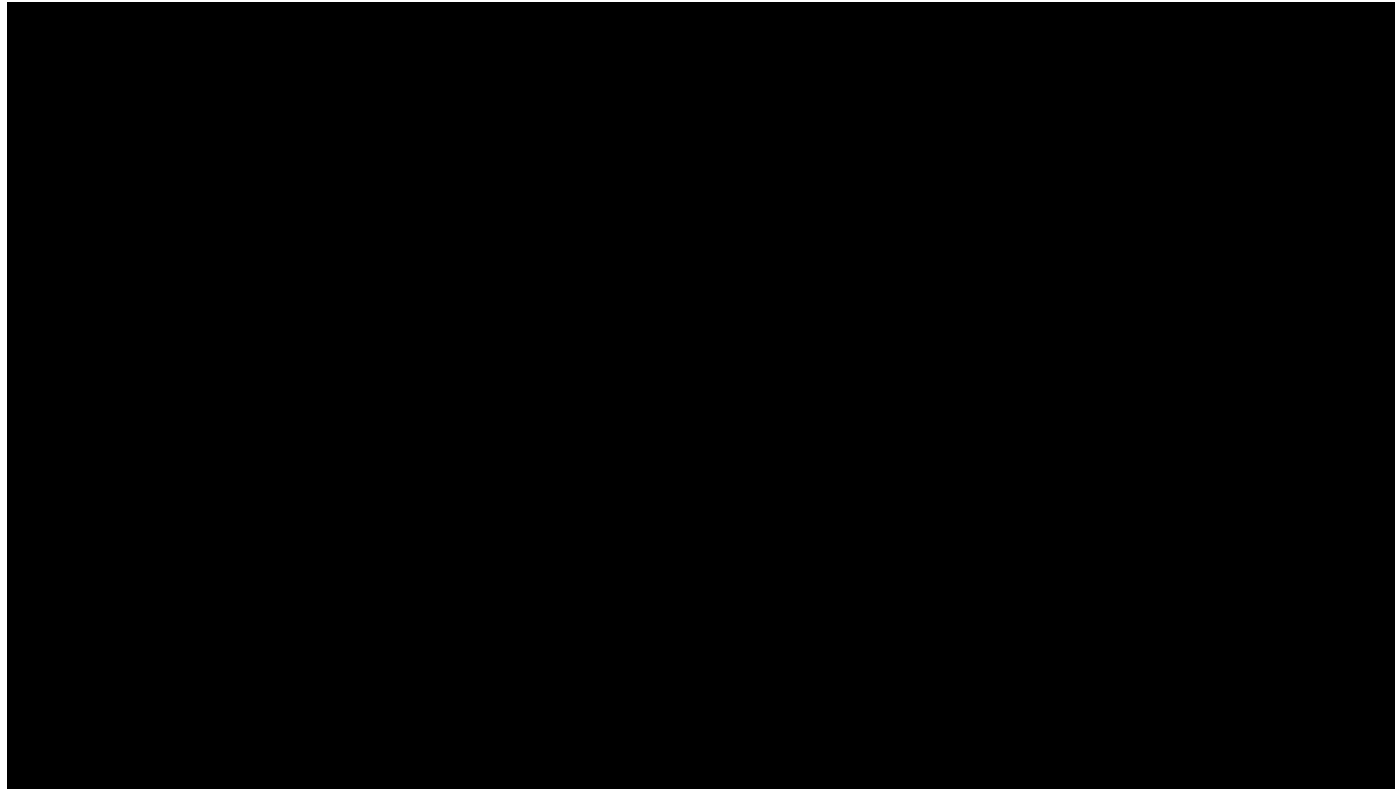
## Data Dashboard



- Quality Assessments incl. block / site functional suitability
- Estates Compliance / Risk Assessments
- Building / Block Running Costs e.g., utilities, FM, business rates, etc
- Backlog Maintenance per site / block
- Energy/carbon utilisation & cost per site / block
- Bed and Room Utilisation
- Recent and planned capital investment



# Virtual Care - Dynamic-Scot COPD



Further information:  
<https://support.nhscopd.scot/>



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Grasp the future and use these beginnings.  
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# Thank You