Transforming the health and wellbeing of the people of Greater Manchester:

Working together to accelerate the introduction of innovation in our health and social care services

• GM: Significant public health challenges

- Performing below national averages against a range of disease and mortality figures
  - 19% live with a Long Term Condition (LTC)
  - 25% of over 60s have 2 or more LTCs
  - 22.3% of adults are obese
  - 23.4 % smoking prevalence
  - 23.9% children under the age of 16 growing up in poverty
- £2bn Funding deficit to the economy by 2021 **if no action taken**

- **Obstacles to rapid implementation of innovation:**
  - Fragmented and slow decision-making
  - Structures do not assist collaboration and co-ordination
  - Lengthy and uncertain routes to adoption
  - Excellent initiatives in one locality not shared more widely
  - Industry find multiplicity of orgs/initiatives confusing and add to risk

GM Unique Approach

- GMHSCP Delegated financial control for health & social care
- All partners engaged to define shared health improvement goals
- Integrated Health Providers (primary, secondary, mental & social care)
- Integration of data records across GM for health and for social care (Datawell)
- Testbed for innovation and collaboration
- Adoption and diffusion supported by GM-level commissioning, governance and H&SC stakeholders engagement

Health Innovation Manchester: Vision

- To transform the health & wellbeing of the people of Greater Manchester by **accelerating the introduction of innovation** in our health and social care services.
- 'One team' formed to support project management, economics and evaluation support
- Tools developed for evaluating innovation & measuring outcomes
- Shorter pathways from trial to approval & system-wide adoption

Health Innovation Manchester: Building on Success

- GM Ecosystem
  - Founded in September 2011
  - Currently 300+ participating organisations,
  - Strategic partners and associated networks

Health Innovation Manchester
Discovering. Developing. Delivering.
msp manchester science parks
ECHAlliance
pro-manchester

- Quarterly Ecosystem events
- Regular Newsletters, Tailored Introductions, Conference & Workshop Engagements, Networking

Manchester Connected Health Ecosystem

MANCHESTER 1824
The University of Manchester
Manchester Informatics

Health Innovation Manchester

ECHAlliance

GM Ecosystem: H&SC Commissioners & Providers, Industry, Universities, Patients

Future Everything

Salford Royal NHS
NHS Foundation Trust

Central Manchester University Hospitals NHS
NHS Foundation Trust

NHS
in Greater Manchester

intel

aridhia

msp
manchester science parks

AstraZeneca

Boehringer Ingelheim

Janssen
Janssen Healthcare Innovation

University of Salford MANCHESTER

THE LANDING

Manchester Metropolitan University

pif

Big White Wall

MANCHESTER CITY COUNCIL

DELL

kainos

new economy

NWEH
NorthWest EHealth

MIDAS
MANCHESTER INVESTMENT DEVELOPMENT AGENCY SERVICE
www.investinmanchester.com

Bridgewater Community Healthcare NHS
NHS Trust

STOCKPORT
METROPOLITAN BOROUGH COUNCIL

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CityVerve IoT cities demonstrator

- IUK funded 2 Year programme
- £16M investment
- 21 delivery partners
- 2km^2 Innovation corridor
- 23 interconnected Use Cases within 4 Themes
  - Energy & Environment
  - Transport & Travel
  - Culture & Public Realm
  - Health & Social Care

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Health & Social Care Continuum

Citizens rather than Patients: at risk of physical and mental health problems due to poor Lifestyle Choices e.g. Inactivity, Obesity, Smoking

Patients Self-Managing a Chronic Condition at home: accessing primary and community care with exacerbations requiring Emergency Care

Frail and/or Elderly patients living at home of in residential care: accessing regular care from neighbourhood team with frequent exacerbations requiring Emergency Care

“BeeActive” encouaging physical activity to tackle preventable, costly chronic conditions such as diabetes and heart disease upstream before they emerge.

Community Wellness

Increased Physical Activity “BeeActive”

- **Target cohort:**
  - People who live, work and study in the Oxford Road Corridor
  - Local schoolchildren and their parents
- **IoT technology**
  - Participants own smartphones
  - Community wi-fi with hyper-local content
  - iBeacons for contextual information

Helping patients with respiratory disease to self manage their condition effectively in partnership with their clinician.

Chronic Condition Management

Long Term Conditions COPD

- Aim **to increase patient activation**
- IoT technology
  - smart inhalers/patients own smartphone/in-home sensors
- Monitor
  - medication adherence
  - physical activity levels
  - mood and symptoms
- Deliver
  - Feedback and “nudges” via patient facing app
  - Feedback to care team via clinician facing app
- Encourage co-creation of care plans

cityverve

Smarter care logistics for patients who are frail, elderly or have multiple co-morbidities being cared for in the community.

Neighbourhood Team Support

Passive in-home monitoring

- Temperature - fuel poverty
- Electricity use – lights, boiling kettle etc.to infer behaviour patterns
- Air quality to detect pollutants
- Tracking activity to indicate wellbeing
  pecific health monitoring

Logistic Support Infrastructure

- Mobile dispensary and logistic support to maximise value of client visits

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