



NORTH WEST COAST
ACADEMIC HEALTH
SCIENCE NETWORK

Life enhancing technology

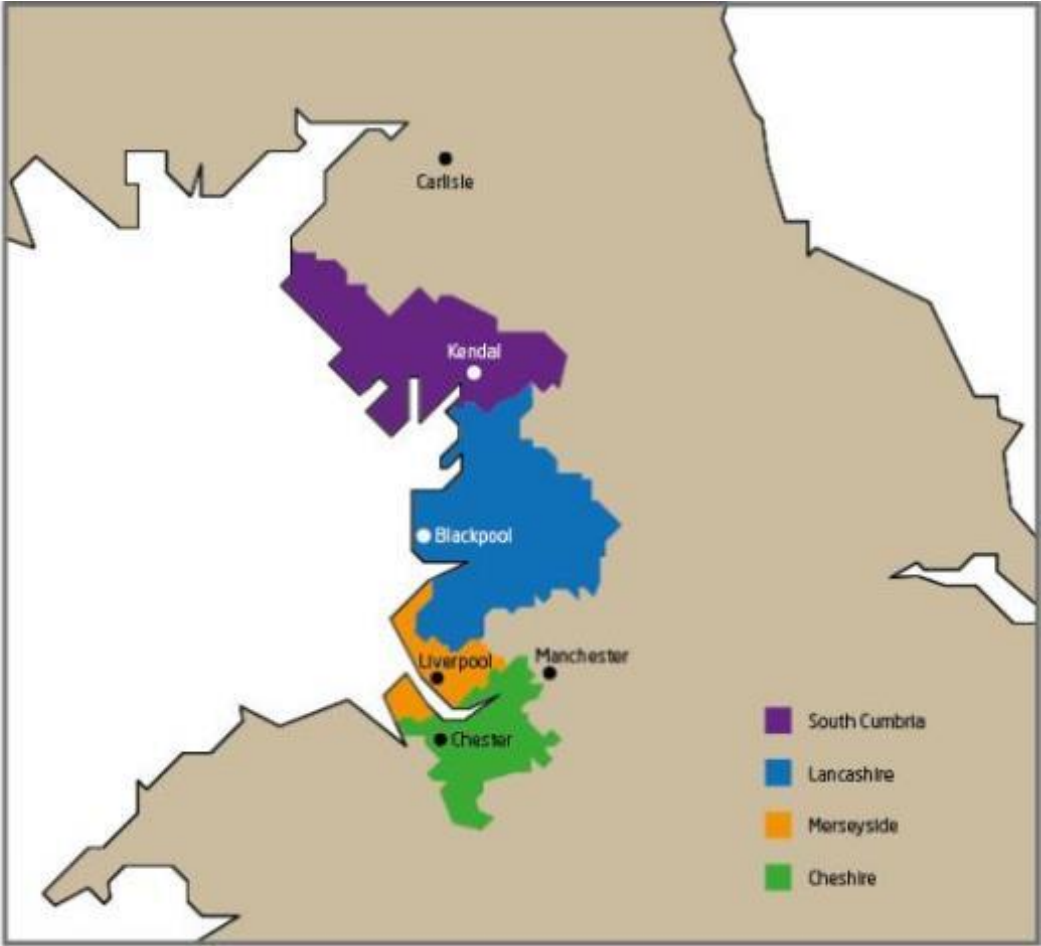
Presented by:

Dr Liz Mear

Chief Executive

liz.mear@nwcahsn.nhs.uk





Local economy overview

- 4.1 million residents
- EU Reference Site for Active and Healthy Ageing
- Large rural and urban areas
- Deprivation and health inequalities
- Public sector 'overspent'
- 2nd highest region in UK for poor quality of life for those with long term conditions
- Worst region in the country for deaths from cancer and alcohol related illness



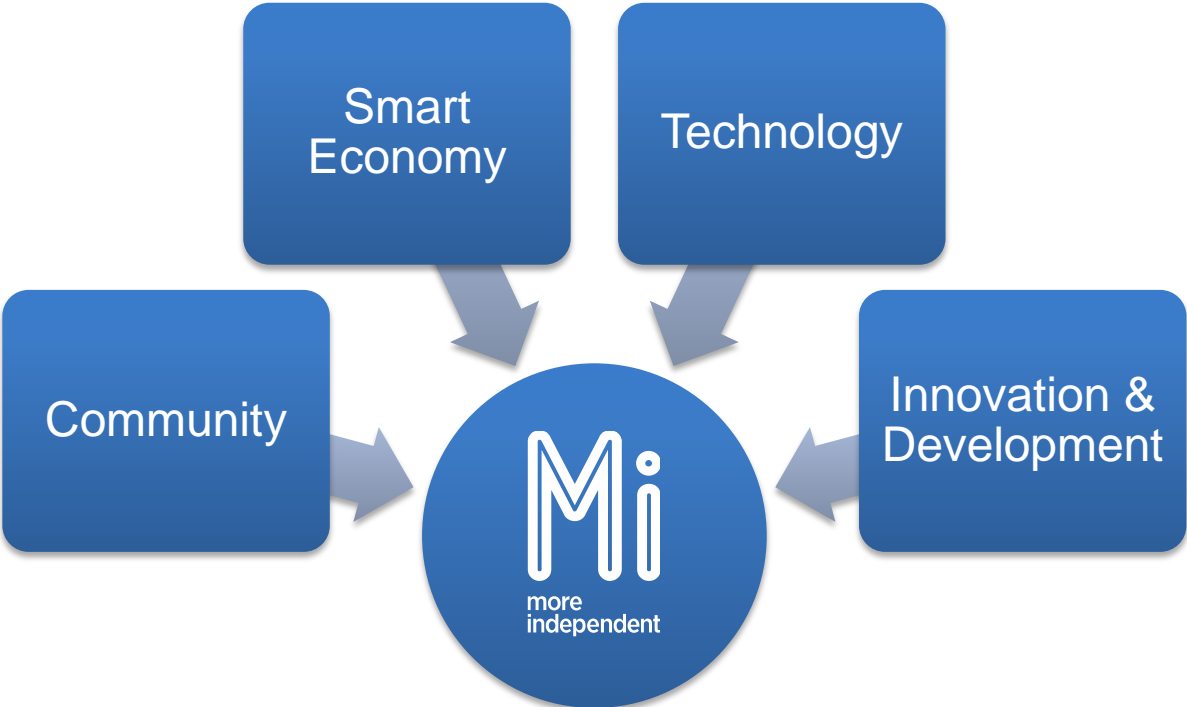
Partners across the region



Digital Health: The More Independent Programme



What does Mi do?



Technology – towards self care

- Telehealth
- Telecare
- New technology
- Retail & Advice
- Pathway Development



Community

- Community Champions
- Digital Champions
- Digital Hubs
- Active @ 60
- House of Memories
- Smart House in Liverpool Museum



Innovation & Development

- Technology development & Sensors
- Brainport, Eindhoven
- Person Held Record (PHR)
- Apps – Digital & Social Inclusion
- Service Design



Technology - telehealth

Simple telehealth

Full telehealth



Mi

Technology - Telecare





Life Enhancing Technology



Telestroke

- **Out of hours** solution to provide advice for the decisions about stroke thrombolysis
- Collaboration of 6 Acute Trusts (8 sites) and 10 CCG's
- 16 stroke physicians with uncontested broadband capability at home
- Combination of remote tele-consultation and tele-radiology in the ED and consultant's home



What is telestroke?

- Real-time video conferencing
- Allows “face to face” two way consultation with a remote stroke specialist
- Access to radiology images



- Fully managed service
- Virgin Media Business/ Imerja/ Multisense
- 24/7 helpdesk
- Proactive cart and laptop management
- Secure uncontested broadband



End User Hardware

Cart Features

- Height Adjustable work surface
- On-board battery power system that meets UL 60601
- Provisioned for Wireless Capability with battery power and wireless antenna

*High Definition
720p 30/60 fps*

*or 1080p
resolution!*



Benefits of the Telestroke Solution

- Uses proven Audio/ Visual Technology
- Takes the Physician to the Patient
- Ideal for accessing difficult to reach rural areas
- Cost effective use of existing specialist staff
- Builds on existing daytime services

ASTUTE Telemedicine Toolkit

- Collection of documentation and experiences of telestroke implementation undertaken by the ASTUTE project that may be useful to other organisations considering telemedicine
- National Institute for Health Research (NIHR) Project with University of Central Lancashire
- Designed to share learning and resources from all Telestroke developments

www.astute-telestroke.org.uk



Stroke/ Atrial Fibrillation

- Identification and awareness raising
- Supporting the implementation of NICE guidelines for management and treatment
- Identifying and supporting innovative technologies



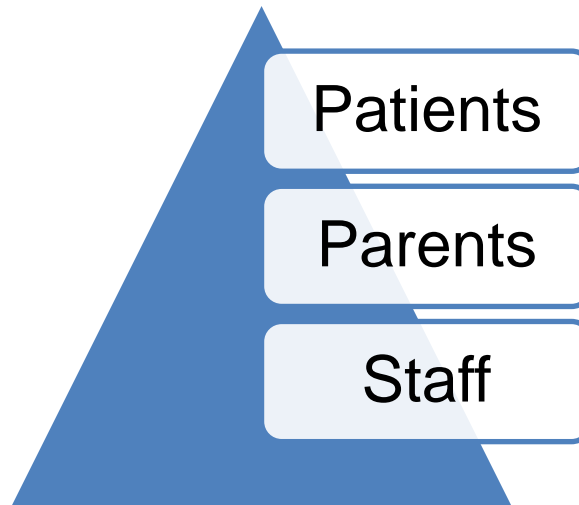
Technology for children in hospital



Alder Hey in the Park – Children’s Hospital



Technology to support the community

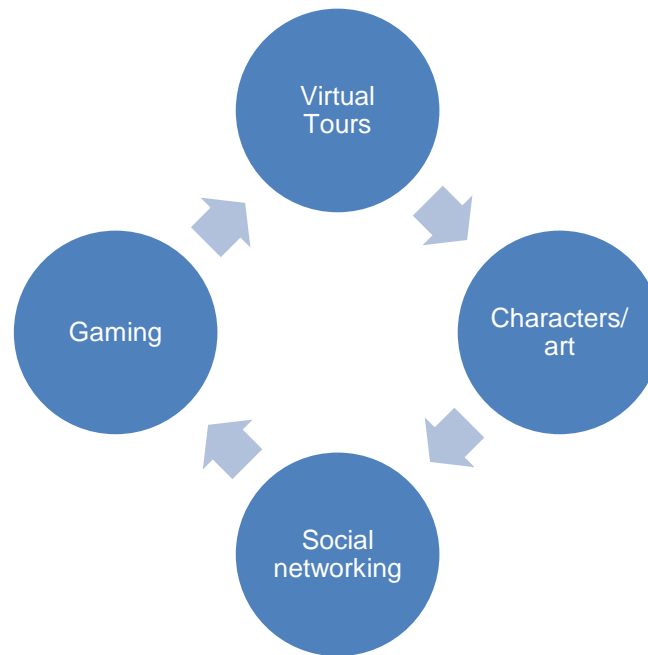


Alder Hey robot allows children in hospital to communicate

- Robot used in children's ward to allow patients to communicate with each other and staff
- Children able to control robot and use their face on a screen via a webcam
- Robot part of a series of trials to test how children's stays at hospital could be improved.



Child-focussed technology



Staff and carers



- Rewards for children
- Feedback systems
- Digital alerts
- Remote visiting
- Support groups
- Innovation centre
- Powerful data collection

Telemedicine

- Cover a large geographical area
- Network of tele-clinics
- Green/ cuts down on travel
- Work life balance for staff
- Extension of telestroke to paediatric tele neurology – rolling out to 4 areas



If you would like to work with us and make a difference to the lives of millions of local people, please contact:



Dr Liz Mear
Chief Executive

E: Liz.Mear@nwcahsn.nhs.uk
T: 01772 520260
M: 07891 698692



Prof John Goodacre
Medical Director

E: John.Goodacre@nwcahsn.nhs.uk
T: 01772 520258
M: 07538 902165



Philip Dylak
Director of Innovation,
Nursing & AHPs/AQuA Associate

E: Philip.Dylak@nwcahsn.nhs.uk
T: 01772 520255
M: 07538 022771



Lorna Green
Commercial Director

E: Lorna.Green@nwcahsn.nhs.uk
T: 01772 520259
M: 07507 845982

 info@nwcahsn.nhs.uk  [@nwcahsn](https://twitter.com/nwcahsn)

www.nwcahsn.nhs.uk

