Date

Digital Health & Care Innovation Centre

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Healthy Ageing Innovation Cluster Lead

Scotland’s national innovation centre for digital health and care

Based in the Inovo Building, with a Demonstration & Simulation facility in the TIC building, University of Strathclyde

dhi-scotland.com

Who are we?

- Formerly the Digital Health & Care Institute
- A national resource
- One of Scotland's seven innovation centres
- Funded by the Scottish Government & the Scottish Funding Council
- We work with Public sector/ Civic organisations, Commercial industry (SMEs through to Enterprise level organisations), Academic institutions and Citizens
- Vision - innovation in digital health and care will help the people of Scotland live longer, healthier lives and provide sustainable and inclusive growth for our economies
- Partnered with Glasgow School of Design & Strathclyde University

What we do – integrate innovation strands to enable adoption

DEMONSTRATING

Service model innovation

Technical/Digital innovation

Business model innovation

ACCEPTED SERVICE MODELS

READINESS TO ADOPT/ SCALE

Our capabilities

- We offer a unique and valuable range of capabilities, with core knowledge and expertise built upon a foundation of experience in the health and care context

- We operate an effective partnership model, bringing together health and care practitioners, industry and academia to collaborate to solve key demand-led challenges

- For innovation to be successful we focus on three aspects – Service, Technical and Business

4 pillars for success

Innovation clusters

Extensive ecosystem and specialist innovation clusters in healthy ageing and digital mental health

Project Portfolio

Expertise in delivering digital innovation projects for health and (social) care

Research, Skills & Knowledge Exchange

Market research capabilities, future workforce development and mobilisation of our local, national and international networks

DHI Exchange

Demonstration and simulation of technology innovation integrations

Digital Health & Care Scotland

TEC Technology Enabled Care

Digital Citizen Delivery Plan

2021/2022

1.Addressing Inequalities and Promoting Inclusion
2.Engaging citizens, staff and services through Co-design and Participation
3. Redesigning Services – Improving Citizen Access/Promoting Wellbeing
4.Innovating to Support Transformation

Typical process

Context mapping

What helps and hinders achievement of outcomes?

Success stories

What does success look like against the headings?

Outcome mapping

Building on the first workshops to develop a theory of change

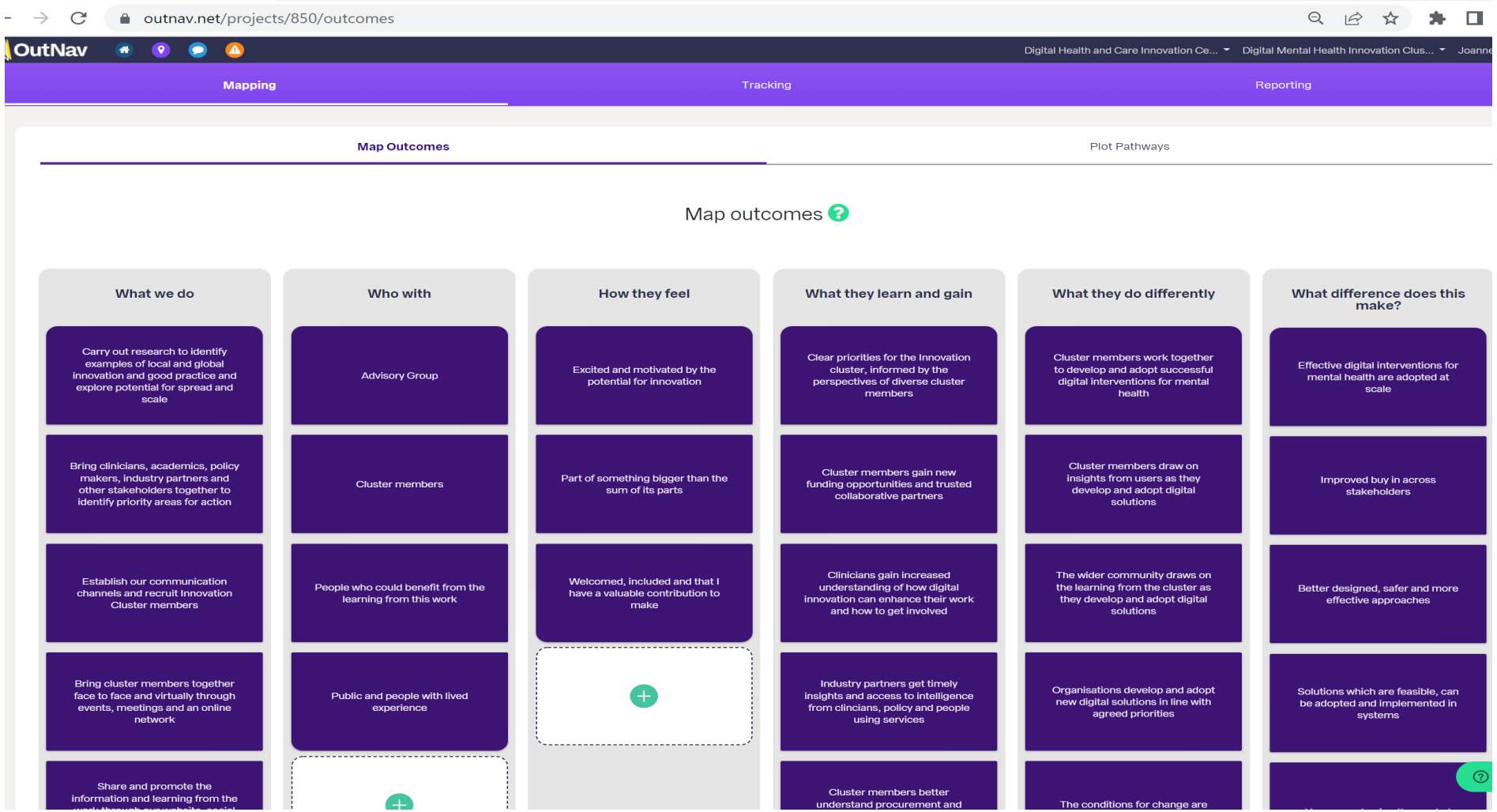
Data audit and planning

What data exists and what will we need?

Analysis and reporting

What can we conclude from the evidence we have reviewed?

Mapping Outcomes



Aim: To accelerate digital innovation and Adoption in health and care.

Create	Share	Build	Seek & Solve	Opportunities
Create a collective of shared interests, expertise and skills	Share information and support knowledge exchange	**Build Collaborations that are greater than the sum of their parts.**	Seek and solve demand led challenges	Identify funding/host challenge opportunities


Engagement & Purpose
Financial Wellness
Mobility & Movement
Daily Living & Lifestyle
Caregiving
Care Coordination
Brain Health
End of Life
AGING 2.0
GRAND CHALLENGES

UK Research and Innovation

Designed for Ageing Competition

September 2021

Healthy Ageing Challenge

UK Research and Innovation

The Designed for Ageing Competition

Presents an opportunity to:

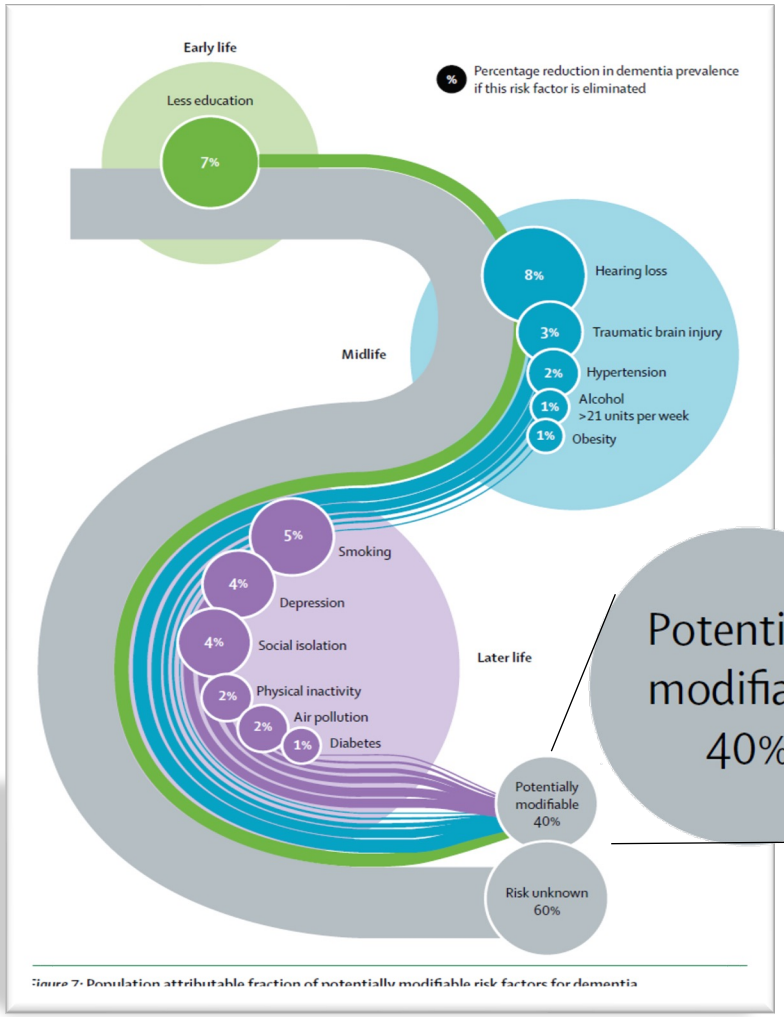
- Receive up to £2m in grant funding to advance your business
- Fund eligible project costs* for up to two years
- Leverage the competition’s unique design stage gate to make your organization more sustainable longer-term, and more likely to capture viable market share

Healthy Ageing Challenge

Scottish Dementia Research Consortium

Digital Health & Care Innovation Centre

Brain Health & Dementia Prevention



Livingston et al., 2020

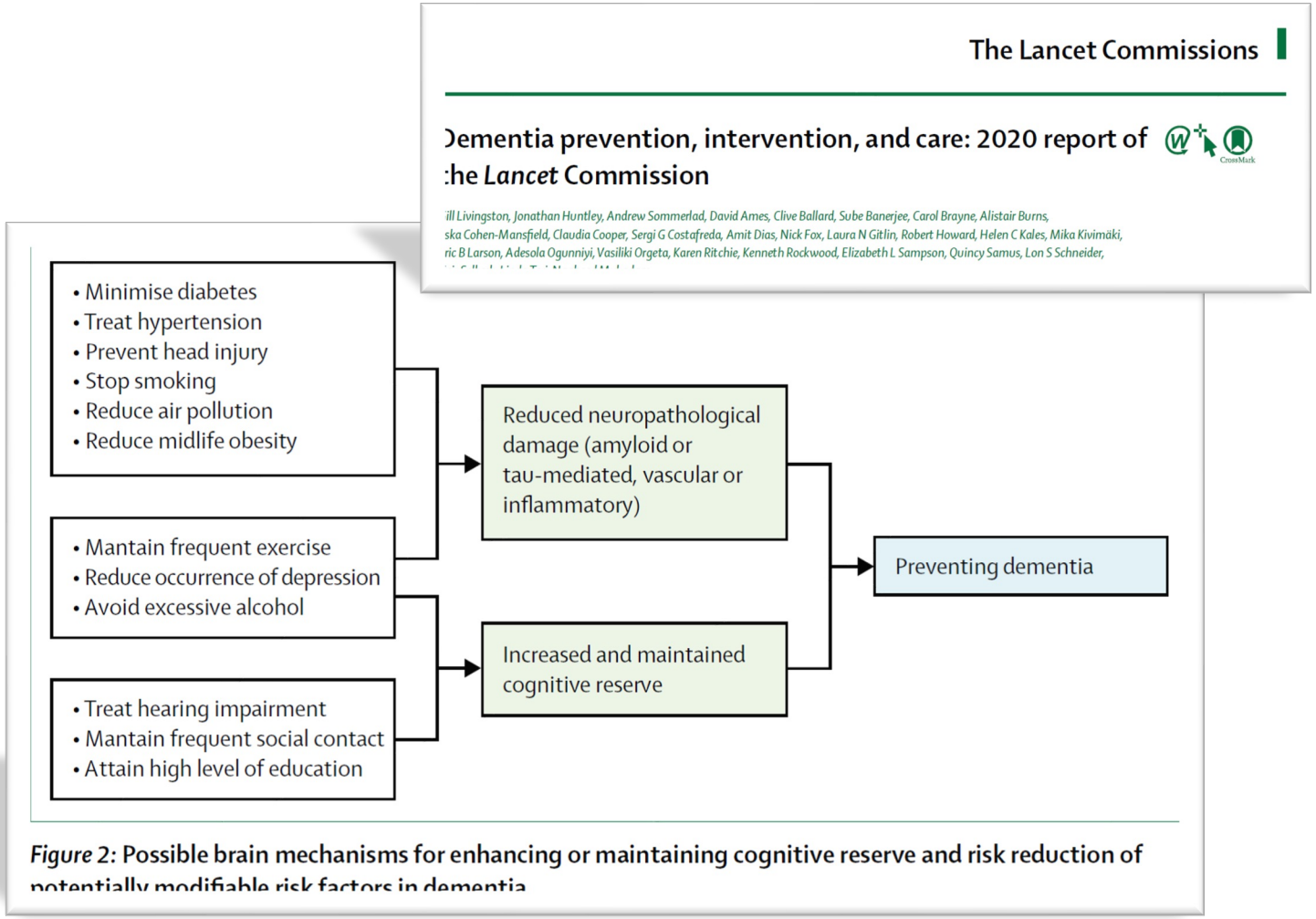


Figure 2: Possible brain mechanisms for enhancing or maintaining cognitive reserve and risk reduction of potentially modifiable risk factors in dementia

Scottish Dementia Research Consortium

Digital Health & Care Innovation Centre

Brain Health & Dementia

World Health Organization

Brain Health is an emerging and growing concept that encompasses neural development, plasticity, functioning, and recovery across the life course.

Good brain health is a state in which every individual can realize their own abilities and optimize their cognitive, emotional, psychological and behavioural functioning to cope with life situations.

1. It involves interconnected social and biological determinants
2. It creates opportunities for promotion and prevention strategies across the life course.
3. They require multisectoral and interdisciplinary collaborations with a holistic person-centred approach
4. They need to involve/engage people with lived experiences, their families, and carers

We are all researchers

Scottish Brain Health & Dementia Research Strategy

sdrc.scot/researchstrategy

Alzheimer Scotland
Action on Dementia

Scottish Dementia Research Consortium

Brain Health Scotland

Scottish Dementia Research Consortium

Digital Health & Care Innovation Centre

Technologies for Brain Health and Dementia Prevention

June 2022

Technologies for Brain Health and Dementia Prevention Workshop

The Scottish Dementia Research Consortium (SDRC) and the Digital Health & Care Innovation Centre (DHI) hosted a two-day event that encapsulated keynote speakers and interactive workshop sessions, which focused on technologies for brain health and dementia prevention.

Aims

1) To provide a space wherein the relevant community could discuss ideas and interests.
2) To set up Special Interest Groups (SIG) that works collaboratively with the SDRC.
3) To co-produce a white paper (technologies for brain health and dementia prevention in Scotland).

Scottish Dementia Research Consortium

Digital Health & Care Innovation Centre

Technologies for Brain Health and Dementia Prevention Workshop

Exercise 1: Discovering insights	**Exercise 2**: Opportunities and Impediments	**Exercise 3:** Mind Mapping Opportunities	**Exercise 4:** Developing Ideas

Aims

To co-produce a white paper that will pave the way towards future technologies for brain health and dementia prevention in Scotland.

The Data Lab…

is Scotland's **innovation centre** for **data and AI**

Our mission is to help Scotland **maximise value** from **data** and **lead the world** to a **data-powered future**

www.thedatalab.com

Brain Health Technology & Data Challenge

part of

DATAFEST2022

in partnership with

Digital Health & Care Innovation Centre

THE DATA LAB value from data

Scottish Dementia Research Consortium

Brain Health Scotland

Alzheimer Scotland Action on Dementia

Innovation Centres

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Scottish Dementia Research Consortium

Digital Health & Care Innovation Centre

Technologies for Brain Health and Dementia Prevention

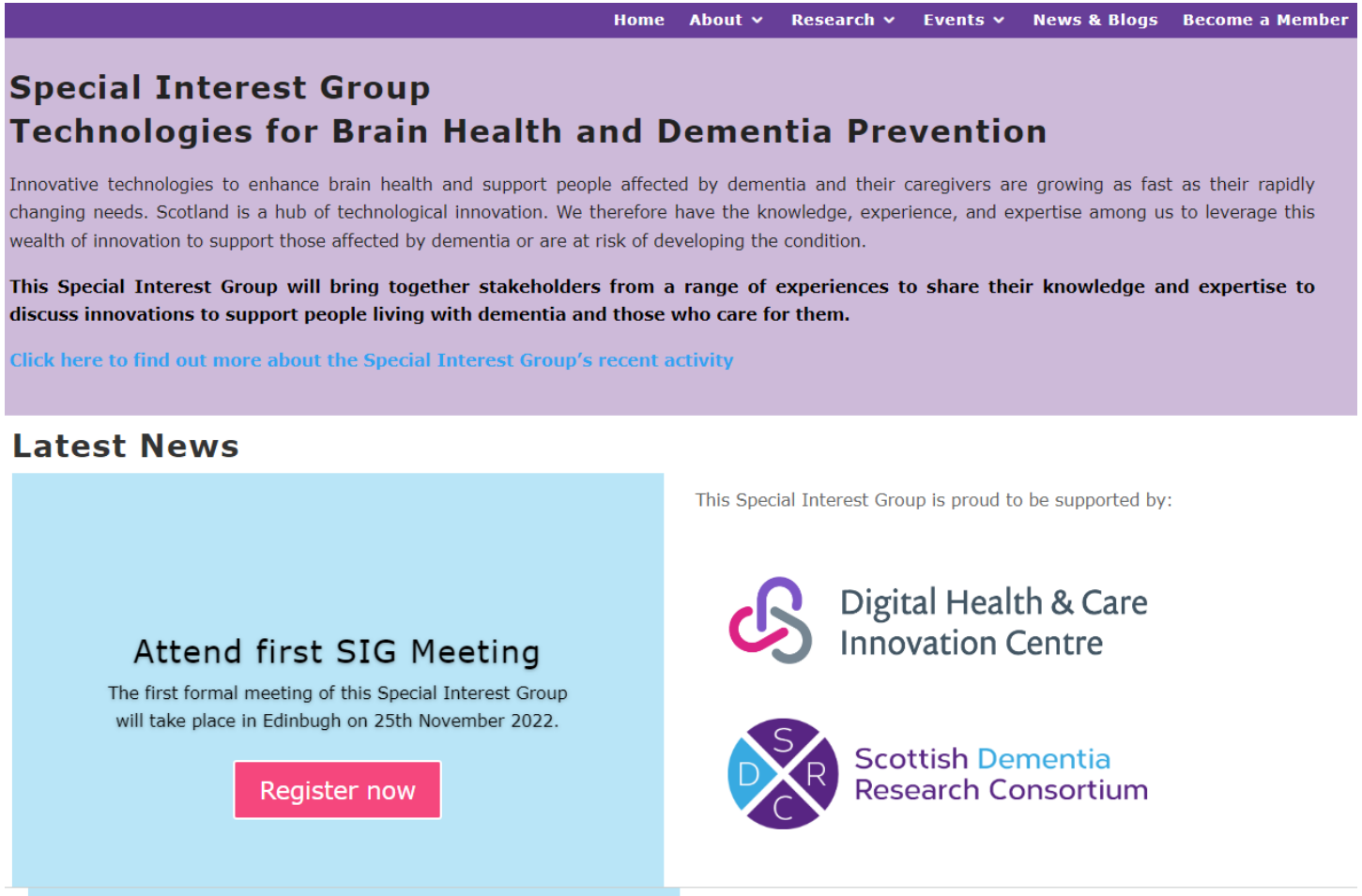
Theme 1: Technologies to enhance brain health. The advent of VR/AR, Wearables/Sensors, Cognitive Prosthetics, Reminiscence Technologies, and other technologies is creating unprecedented opportunities to move assessments and interventions from the lab to the real world.

Theme 2: Adaptive technologies, precision medicine and interventions. This theme focuses on technologies that hold to potential to adapt to the changing needs of those affected by neuro-progressive diseases. These are essential for person-centred assessments and interventions.

Theme 3: Assistive technologies. There is a growing interest in technologies that can support people with disabilities to live safely and independently whether at home or in care facilities. We are witnessing a rapid growth of Ambient Assisted Living, Smart Environments, Living Labs, Tele-presence and Tele-care, Cognitive Robotics, just to mention some key examples.

Theme 4: Co-design and co-production for brain health technologies. The Scottish Brain Health and Dementia Research Strategy aims to encourage a paradigm shift whereby researchers and members of the public come together to become co-designers, co-producers and co-beneficiaries of research.

Next Steps



[Join our Special Interest Group](https://www.sdrc.scot/technologies-sig)

https://www.sdrc.scot/technologies-sig

Join our digital health and care network

- Scan the QR code →

Or

- Enter:

www.dhi-scotland.com/join-our-network

Visit our HAIC webpage

- Scan the QR code →

Or

www.dhi-scotland.com/innovation/innovation-clusters/healthy-ageing/

Join our private LinkedIn HAIC Group

- Scan the QR code →

Or

- Enter:

www.linkedin.com/groups/12496744/