



Digital Health & Care Innovation Centre

Moray Rural Centre of Excellence for Digital Health and Care Innovation

23 March 2022 – Information Session

Agenda



- 14:05** Welcome and Event opening
- 14:10** Introduction from Janette Hughes, *Director of Planning and Performance at DHI*
- 14:20** Perspective from Madeline Smith, *Head of Strategy at Glasgow School of Art Innovation School*
- 14:30** Rural Centre of Excellence Activities and Implementation from *Karim Mahmoud, Commercial Innovation Lead*
- 14:45** Questions from the audience
- 14:55** Next steps, post-event survey, and joining our network

Who are we?



- Formerly known as the Digital Health & Care Institute (DHI)
- A national resource
- Funded by the Scottish Government & the Scottish Funding Council
- One of Scotland's seven innovation centres
- We work with 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
- **Moray Rural Centre of Excellence is a £5M investment in digital health research and development, leading to the adoption of innovations addressing challenges in social care settings within a rural setting**

Scotland's national innovation centre for digital health and care



DHI - HQ – Glasgow (UoS)



DHI – Forres (GSA)

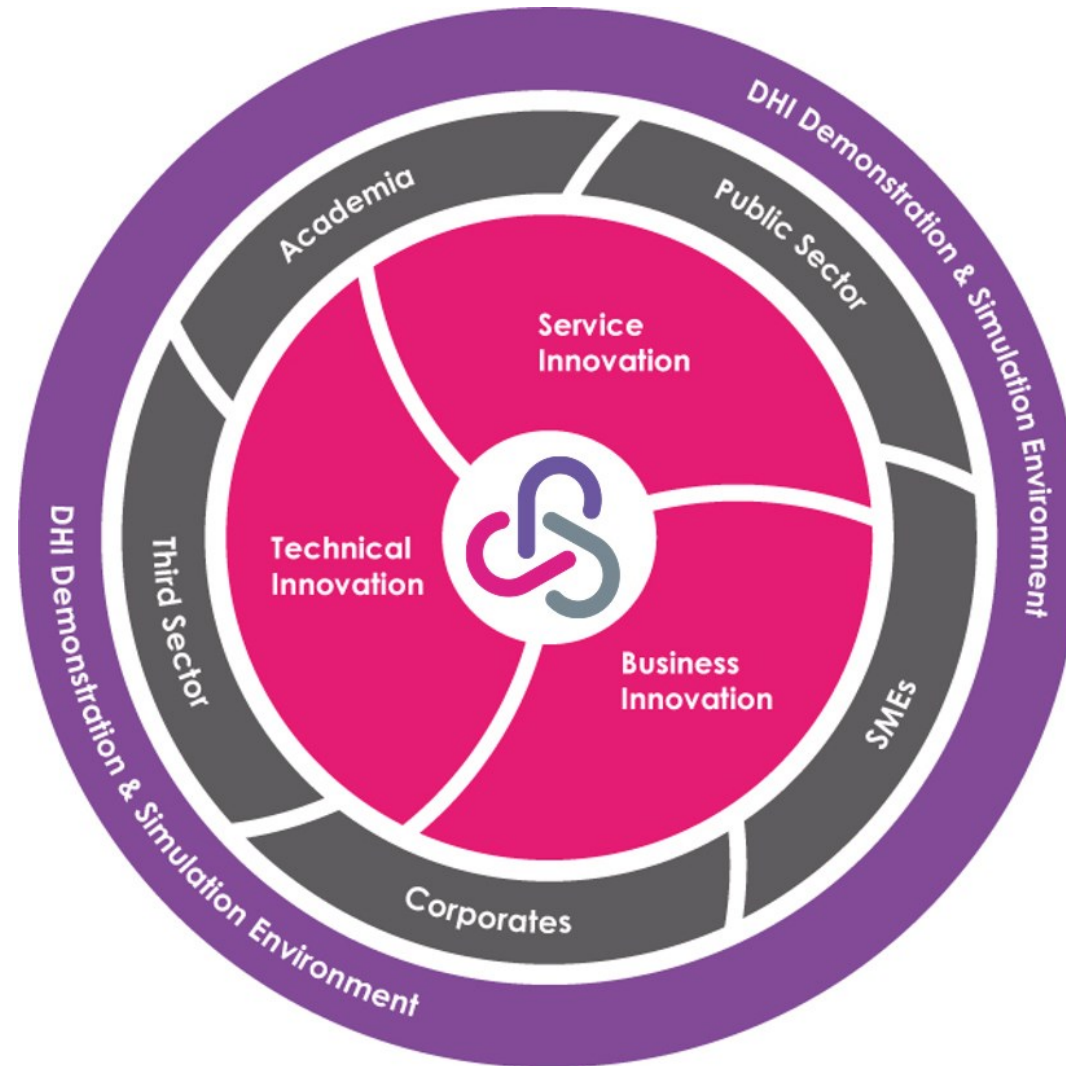
Our health and care priorities



Our portfolio aims to address the key challenges identified by the Scottish Government in health and care, with a current focus on:

- Cancer
- Cardiovascular
- Covid-19 incl. service re-mobilisation
- Chronic respiratory
- Citizen empowerment
- Demand & capacity management
- Diabetes
- Digital skills & workforce development
- Healthy Ageing
- Mental Health

DHI Delivery Model





We identify health and care-led problems where digital innovation can provide the greatest impact.

We will then match these with the right capabilities and solutions providers, with the emphasis on quality, depth and real-world application.



Our innovation process model



Our unique innovation process model focuses on five key stages and enables us to provide a range of specialist services. Our partners can pick and choose the services that will add the most value and have the greatest impact on their projects.



Engage & Scope

- Cutting-edge market research
- Global trends analysis
- Current and future state mapping



Initiate & Develop

- Co-design research activity
- Academic grant awards
- Specialist project management



Evaluate & Iterate

- Interactive prototyping
- Technical development and testing
- Simulation environment (DSE)



Embed & Adopt

- Digital products & service innovation
- Digital skills and workforce development
- Industry collaboration opportunities



Learn & Share

- Targeted knowledge exchange
- Hosted study visits
- Specialised event management

**Looking to
collaborate with
us?**

[Join our network](#)

Capabilities that we apply through partnership working



Examples from our project portfolio



Projects

We focus on developing digital health and care innovations to key Scottish health challenges. Browse our project portfolio to learn more about who we work with and what solutions have been developed. Everything we do revolves around collaboration and co-design!

Search by keyword



Project Status

Year

Key Health Ch

Showing 1 - 12 of 33 projects



Active
ValMed

Using digital technology to understand the impact and value of particular medicines on individual patients



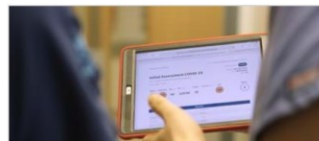
Project
Covid-19 Response

The Digital Health & Care Innovation Centre is collaborating with a number of stakeholders in response to Covid-19.



Live
Covid-19 Test and Protect (TAP)

Three separate digital services in one digital solution.



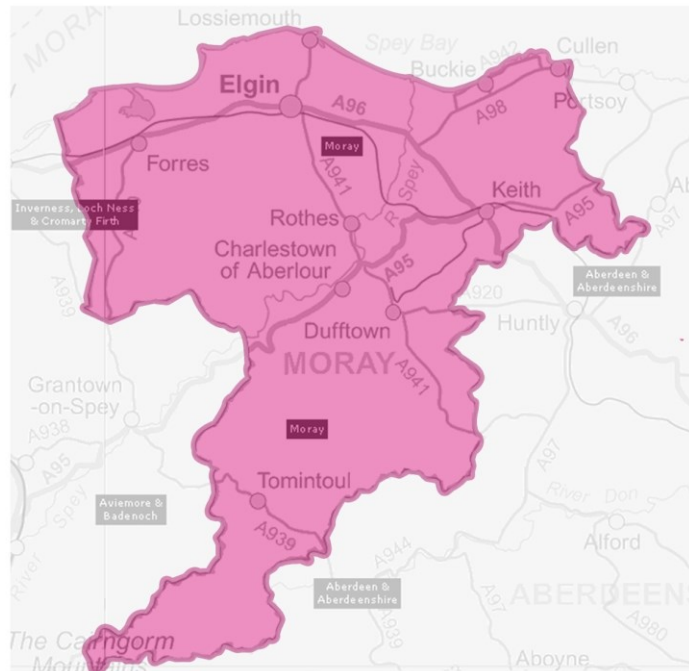


Introduction to the Moray Rural Centre of Excellence for Digital Health and Care Innovation

Funded via Moray Growth Deal



An investment of £5 Million as part of the Moray Growth Deal



Moray Council Area



Home News Media Library Events Contacts



20 DEC 2021

£100 million investment in Moray endorsed as Moray Growth Deal signed

INVESTMENT of more than £100 million in Moray over the next decade was endorsed today (20 December) with the official signing of the Moray Growth Deal.

It signals confidence from both the UK and Scottish governments in plans to drive innovation and growth in the region, with projects within the Deal designed to maximise Moray's economic competitiveness.

Moray Growth Deal brings together the Scottish and UK governments, Moray Council, partners from across the public and third sector, and businesses. The combined investment will see up to £32.5 million pledged from the Scottish and UK Governments respectively, with regional partners contributing up to £35.8 million.

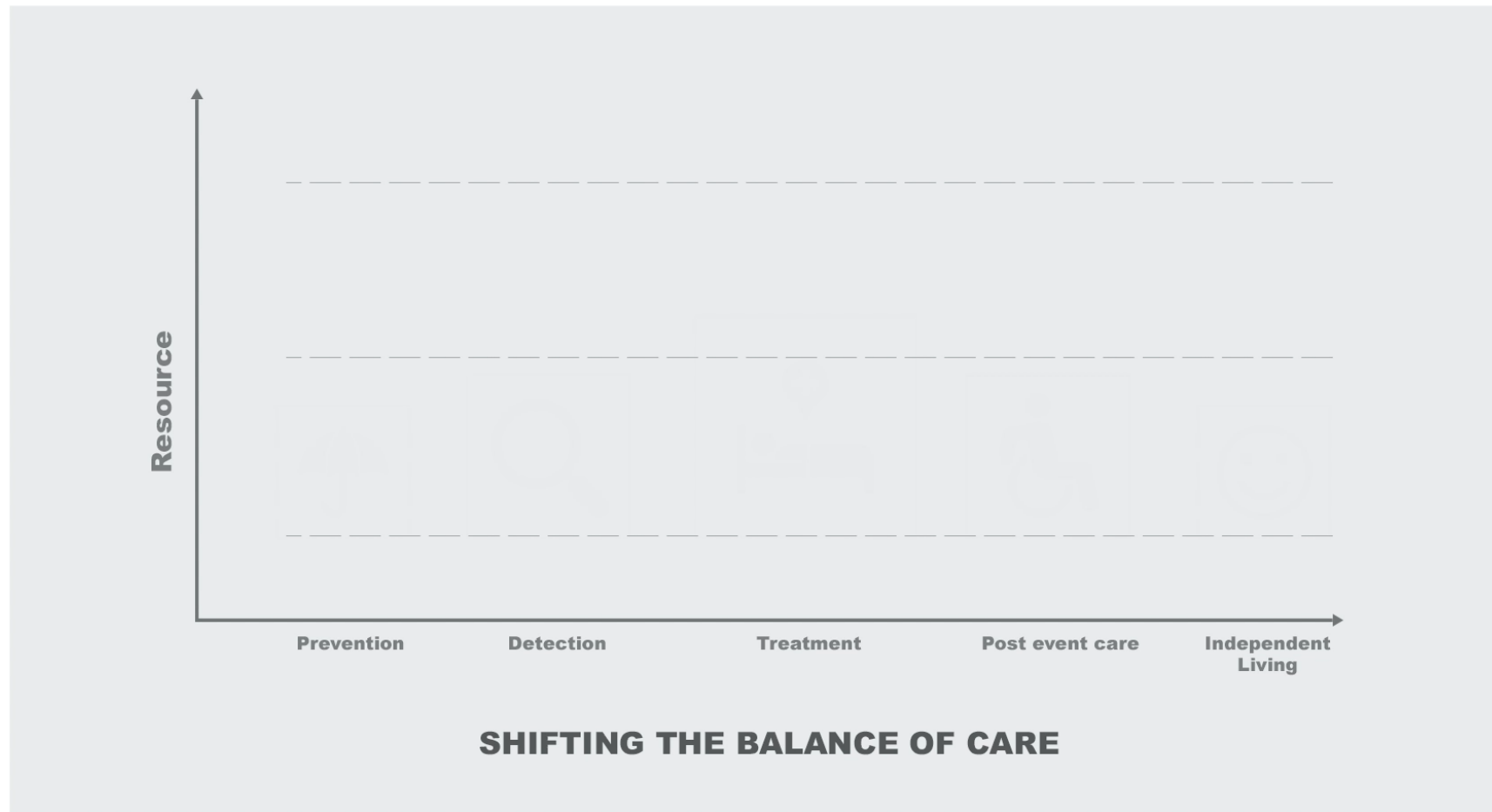
Our ambitions

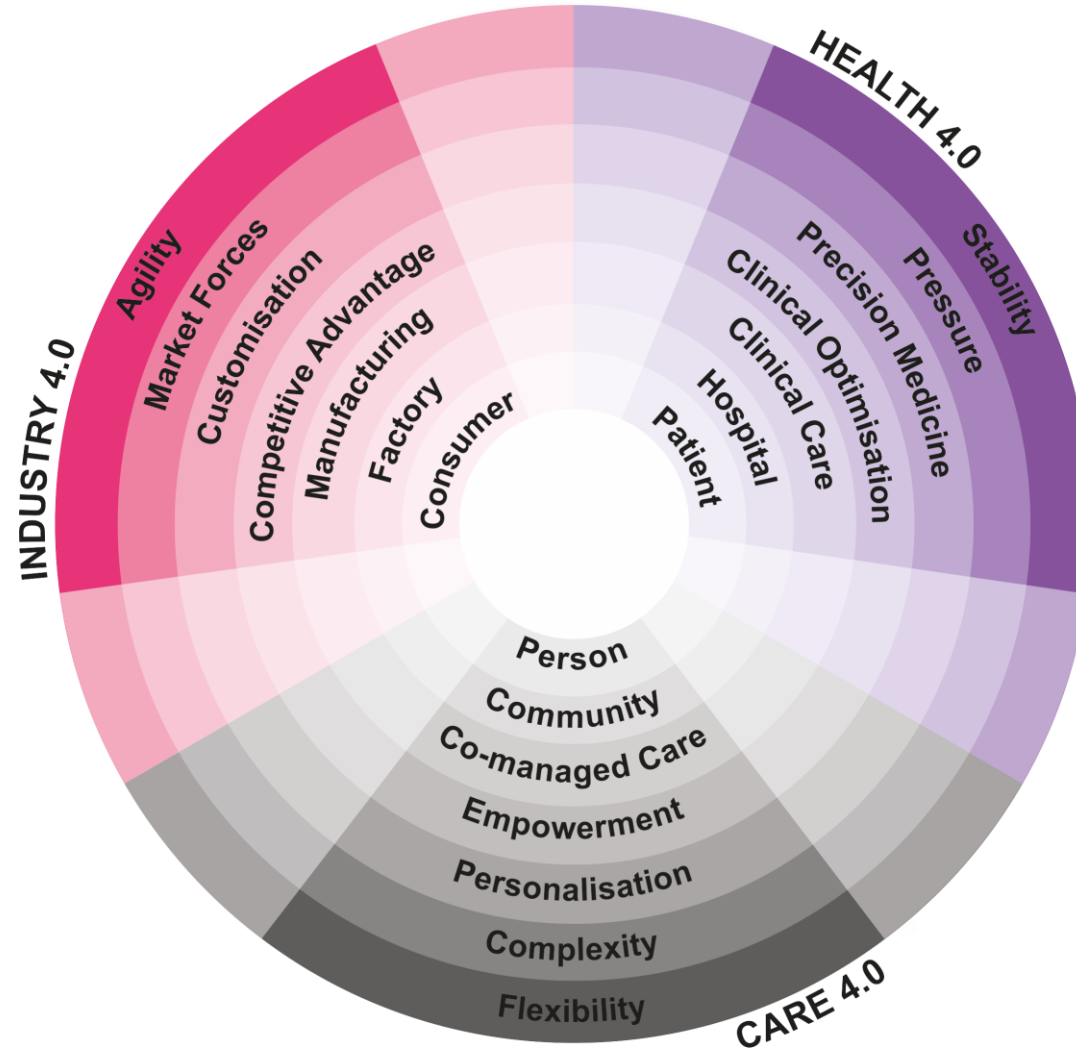


- Accelerate innovation for the next generation of digital health technologies with a rural focus
- Support industry in the implementation of new service models
- Foster the conditions for successful technology upscaling by focusing on business, service and technical readiness levels
- Enhance training and upskilling opportunities to enable sustainable digitally-enabled health and care services



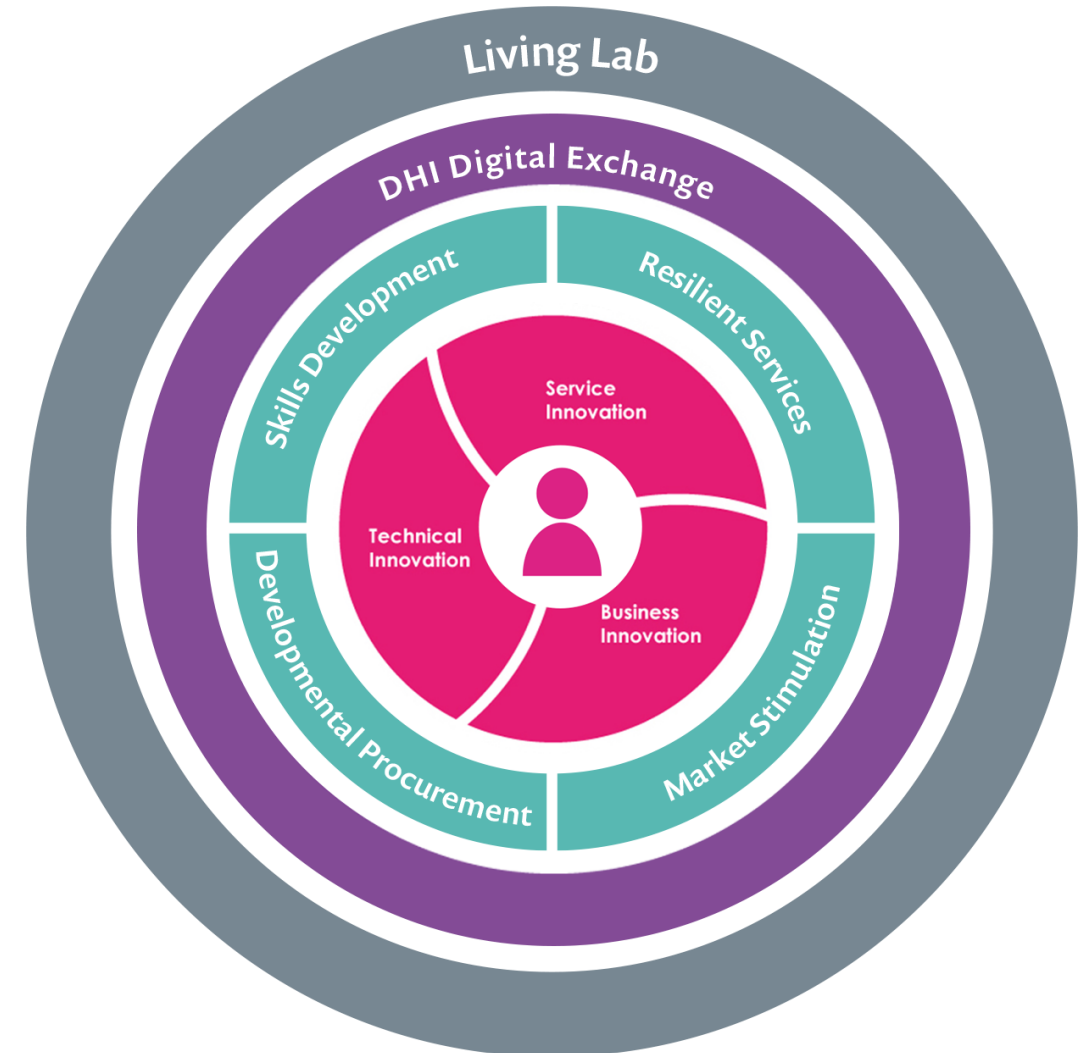
Our focus is to shift the balance of care





Approach to service transformation

- Unprecedented challenges on health and care services
- Demand for solutions that reduce pressures on staff and improve the experience for service users
- Digital solutions and commercially available products can respond to these needs
- The RCE helps by enabling the technical, service and business innovation needed to transform care



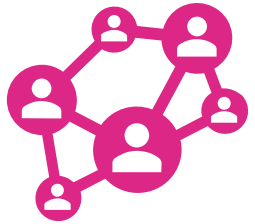


DHI tools that accelerate innovation

- 1. Simulation** – working with SMEs using enabling infrastructure and sandboxes with dummy data to **integrate** digital products that **demonstrates** interoperability - **de-risk** new methods
- 2. Living Labs** – to progress service innovation and redesign and live deployment / evaluation – providing decision makers with **real world evidence** to assist in building the **case for scale**
- 3. Developmental Procurement** – to progress how R&D can fast track into business as usual procurement that allows fast commercialisation

This can then **stimulate commissioners** to ask for **transformation and accelerate growth.**

Supporting rural digital health and care development



Developing the innovation ecosystem for rural digital health, including through infrastructure



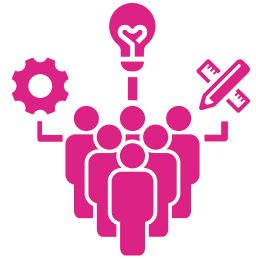
R&D to make care services more resilient and stimulate markets to develop innovative solutions



Contribute to remobilisation, recovery, and economic development



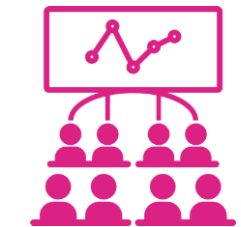
Support sustainability by upskilling and curriculum development



- Creation of 5 Living Labs to find digital health solutions to health and social care challenges



- R&D Funding:
 - Funding to participate in simulations
 - Developmental Procurement



- Building a Demonstration and Simulation Environment (DSE) within the Alexander Graham Bell Centre for Digital Health at Moray College UHI **but also mobile**



- Skills and curriculum development

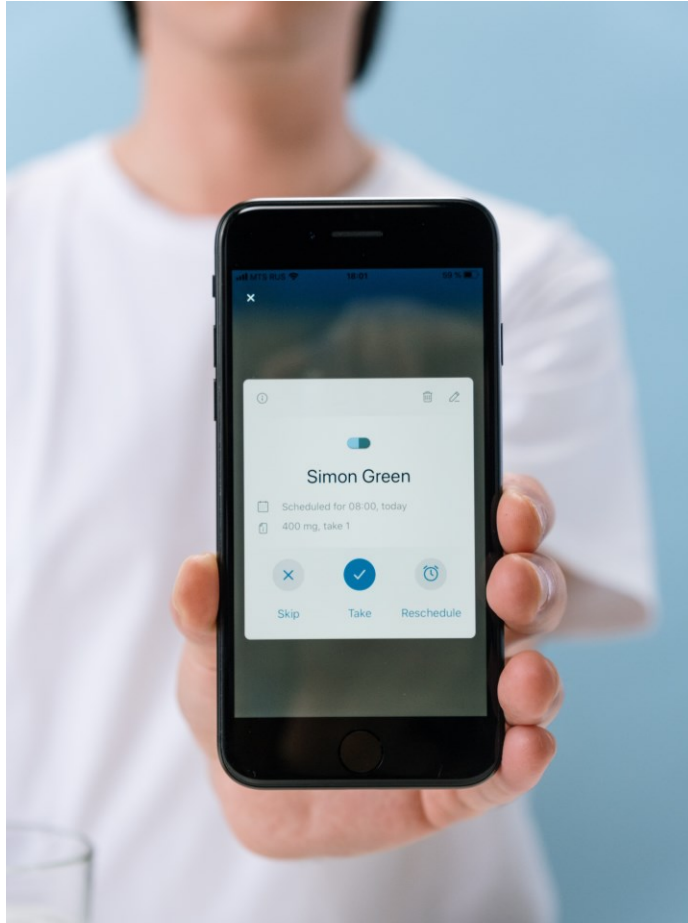


- Opportunities for companies to showcase their innovations



- Fostering collaboration– dynamic cluster

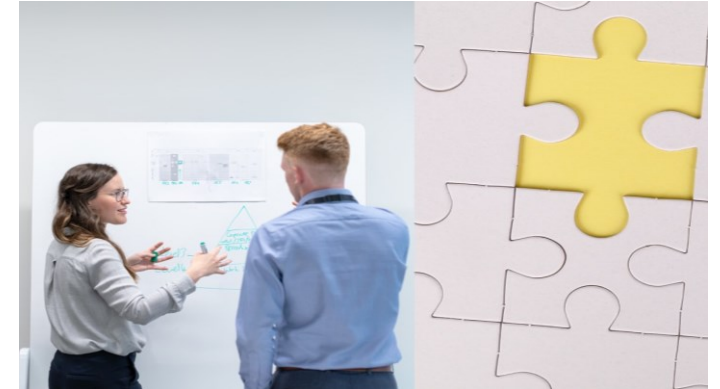
Living Lab Themes



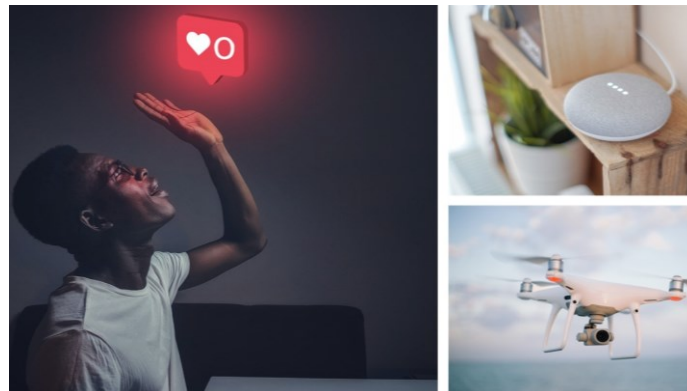
Healthy Living / Weight Management



Mental Wellbeing



Co-managed long-term conditions

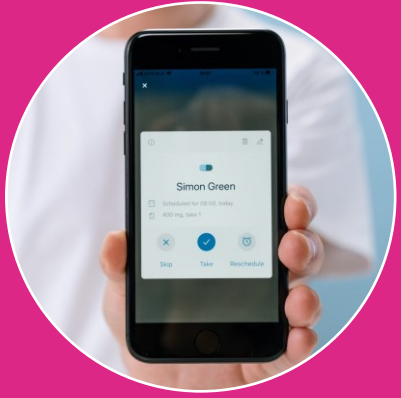


Smart housing/communities



Care in Place

Living Lab Themes



Healthy Living/Weight Management

- Supported weight management
- Implicated in other clinical and care pathways



Mental Wellbeing

- Emerging issue
- Pandemic-related demand
 - Rural focus



Smart Housing/Communities

- Opportunity for homes of the future to support care and wellbeing



Co-managed Long-term Conditions

- Complex needs requiring providers to think beyond silos



Care in Place

- Future of healthcare is at home
- Promoting independent living
- Preventing hospital admissions

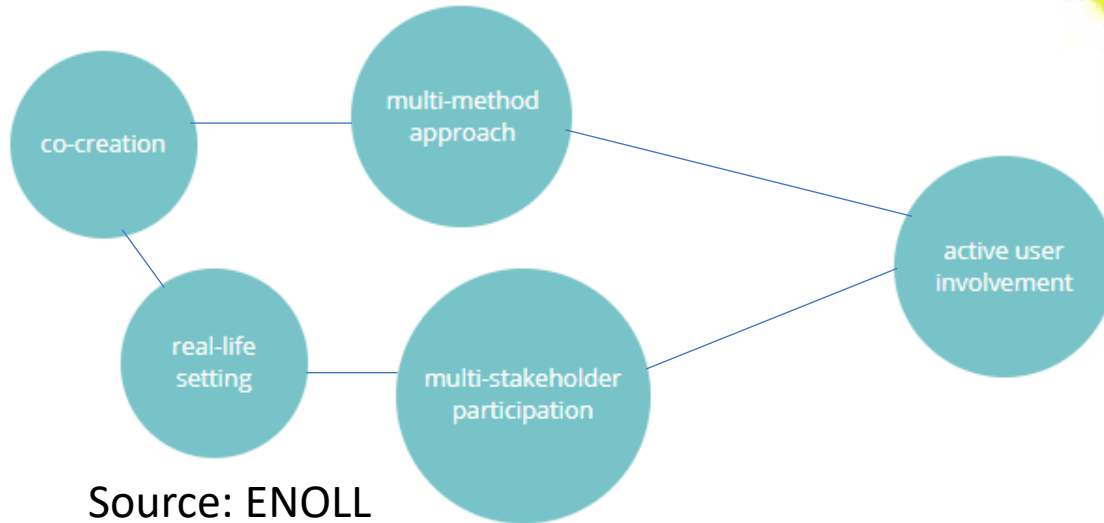
Aim is to develop sustainable, digitally enabled resilient services



What is a Living Lab?

When referring to Living Labs DHI use the definition used by the European Network of Living Labs (ENOLL):

‘Living Labs are defined as user-centred, open innovation ecosystems based on a systematic user co-creation approach integrating research and innovation processes in real life communities and settings’



This is not a Living Lab

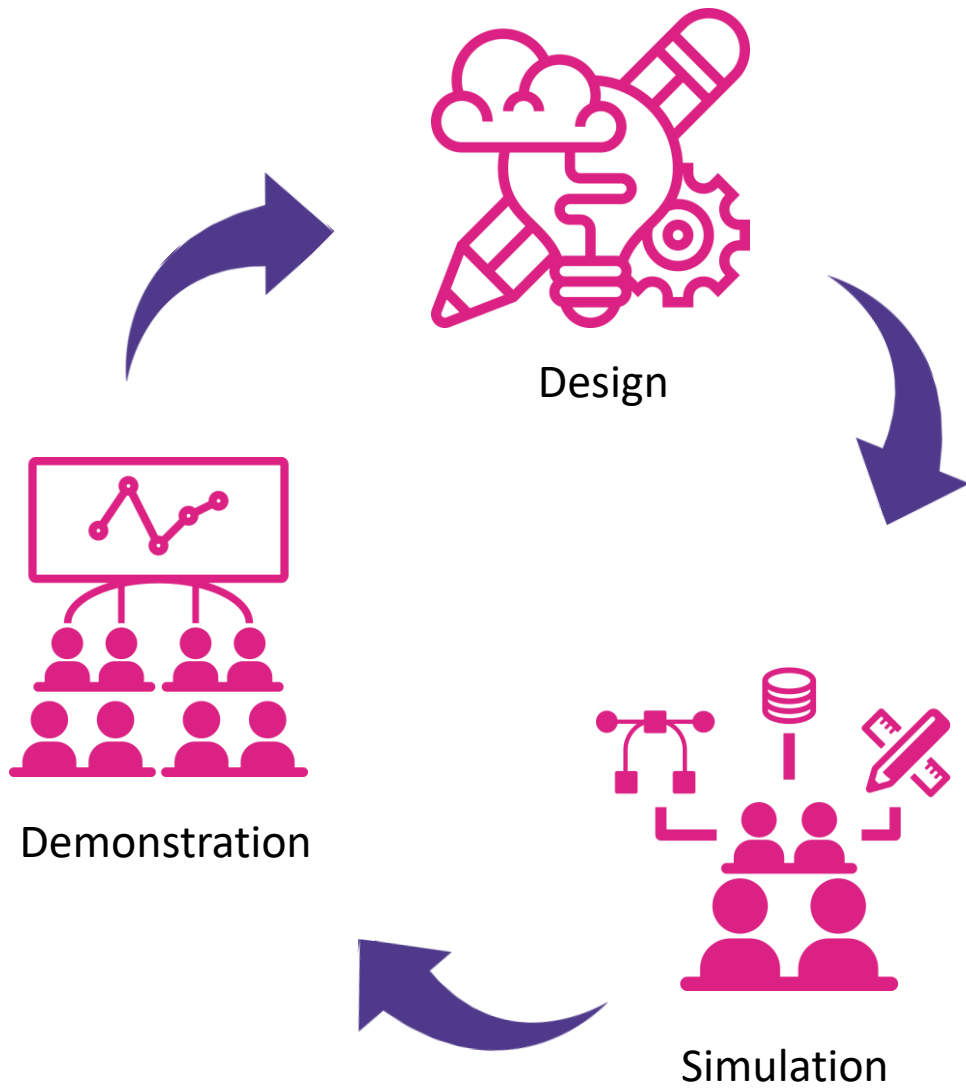


Living Labs often make people think of traditional labs – closed, single stakeholder, confined by walls

This is our Living Labs (In Scotland)



Living Labs – RWE – Co-designed, multi-stakeholder, active research, agile and iterative, real life settings



DHI Exchange

Exchange Knowledge

Exchange Ideas

Exchange Data

Exchange Impact

Key Steps



Define

Pipeline of opportunities informed by design, market research and local priorities



Initiate

Immersive demonstration of a challenge area to secure health and care partners



Call

Open call for development consortia to work collaboratively on the challenge area



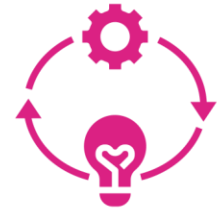
Round 1 (Simulate)

Consortia leverage DHI's person-centered data sharing infrastructure asset to rapidly prototype and integrate new digital services



Round 2 (The Living Lab)

Successful consortia implement solutions and evaluate

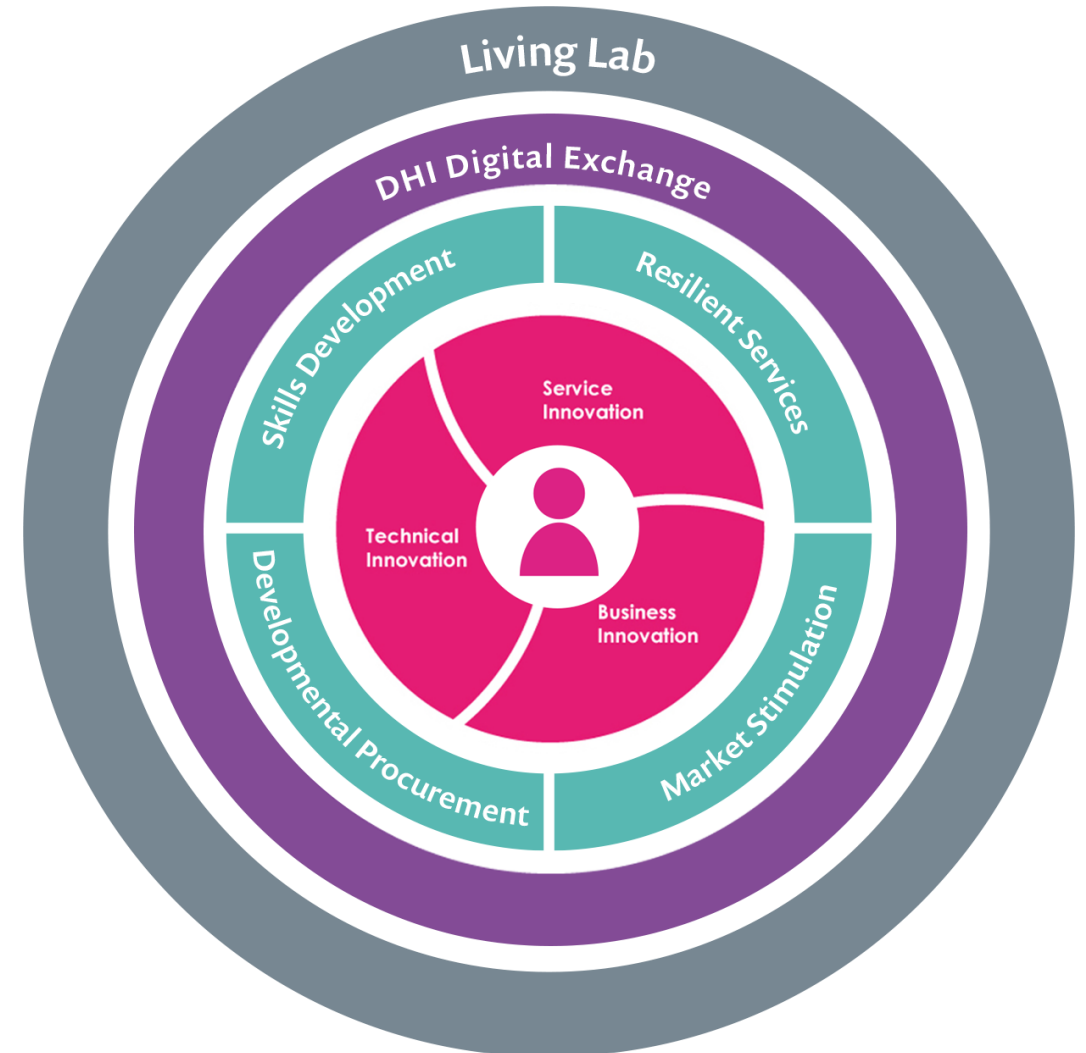


Asset Adoption

Local case for adoption and contract award. Business as usual. Outputs used in the Demonstration Environment to support local economic development and further adoption beyond Moray

Living Lab Benefits

- Novel procurement route
- Digital infrastructure for data sharing to enable more holistic services models
- Underpinned by service, technical and business innovation
- Stimulates the market to deliver innovative solutions – with service redesign at their core
- Upskilling of health and care staff in the use of digital and user-centred approaches is a cross-cutting theme



Readiness levels for Digital Health Innovation



Technical readiness levels		Service readiness levels		Business readiness levels
TR9 – Live implementation proven	LIVING LABS	SR9 – Service change implemented		BR9 – Commercial sale
TR8 – system complete/qualified		SR8 – Develop Case for scale		BR8 – Reference site, real world test
TR7 - working model demonstrated		SR7 – Evaluation and Evidence concluded		BR7 – procurement route/framework – clarified
TR6 - fully functional prototype		SR6 – Change pilot test - RWE/LL		BR6 – Regulation and Standard check (CE/FDA/MDR/IG/SSP)- interoperable
TR5 - rigorous testing undertaken	SIMULATIONS	SR5 – Future state accepted in principle - Simulated to de-risk		BR5 – Acceptable business model
TR4 – technical validation		SR4 - Future state options co-designed		BR4 – Product fit, tested and adapted and made interoperable etc....
TR3 - proof-of-concept constructed		SR3 – Current state understood/accepted		BR3 – Business plan for industry - developed
TR2 - basic principles studied		SR2 – Market/Gap analysis; best practice (hypothesis dev)		BR2 – Market size and strategy reviewed
TR1 - scientific research (defined)		SR1 – Demand – needs analysis		BR1 –Business idea (defined)

©Hughes 2019 – related publication - https://www.mdpi.com/1660-4601/18/23/12575/review_report

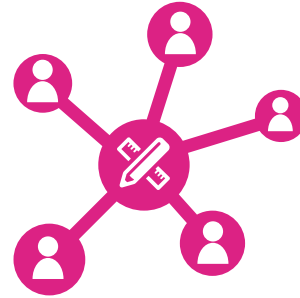
- All priorities are demand led and agile to flex with any new pressures and opportunities

Benefits for service and solution providers



Providing SMEs with access to clinicians and patient groups

Sector specific support, information and guidance to enable growth in regional/national and international markets



Ecosystem

Supporting consortium building (inducing funding bids)

Quarterly business innovation engagement workshops



R&D funding through DHI Rural Centre of Excellence

Opportunity to take part in simulations and demonstrations

Developmental Procurement



- CPD for educators, practitioners, decision makers and citizens
- Skills development offer to support change management and innovation relating to digital transformation of health and care services.
- Work with local and national education providers to ensure that skills development provision is responsive to the changing needs of a digitally enabled health and care service





People in Moray will be invited to take part in participatory design workshops. They may also use a new service as part of a living lab.



Healthcare professionals will be invited to take part in participatory design workshops and may be involved in the living labs, using a new digital service.



Companies and consortia will be invited to respond to challenges via calls. Some industry experts will be invited to take part in participatory design workshops.



As a person living in Moray

I would like to do things on my own terms.

I would like to be able to use my data to unlock or unblock the care I need.

These opinions are taken from the DHI's existing participatory design projects with people in Scotland.



I would like to tell my story once.

I would like to have a meaningful dialogue with professionals.

I would like to access and understand the data that might help me manage my condition better.

Reaching all communities



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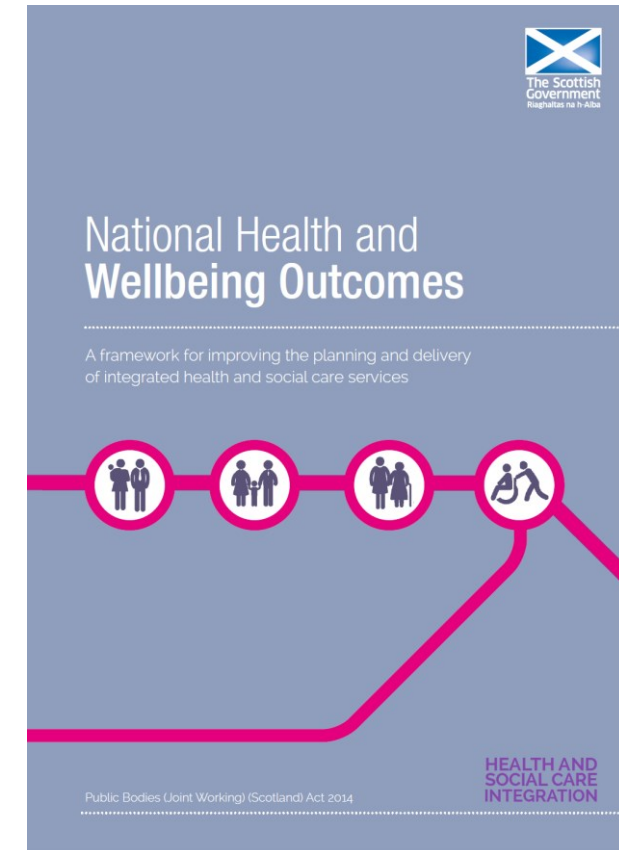


- Early years and schools – curriculum, careers
- Rural areas
 - Active involvement
 - Pop-ups
- Access to specific groups via partners
- Reaching out to community councils
- Close working relationships
 - HSCM
 - NHS Grampian
 - Moray Council
 - Moray College UHI
 - Scottish Rural Health Partnership
 - tsiMoray, Moray Wellbeing Hub

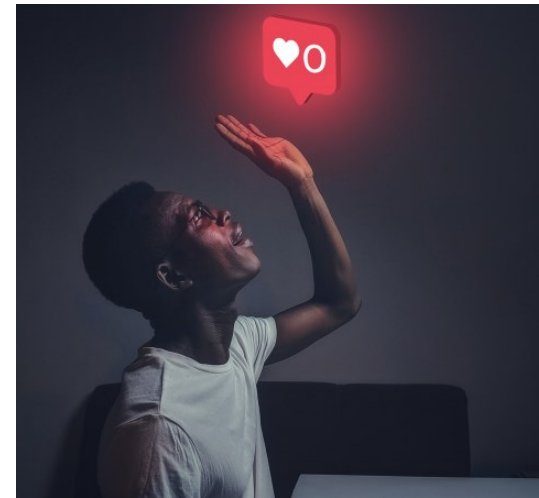
Why?



- Empowerment
 - Be part of the change
 - On a journey together
- Resilient communities
- Role of “place”
- Scottish approach to service design
- National Health and Wellbeing Outcomes
- National Performance Framework



- Twinning
- Connecting with other Moray Growth Deal investments
- Supplier briefings
- Community Wealth Building
- Rethinking Remote Poster
 - *“Moray’s new Rural Centre of Excellence for Digital Health & Care Innovation: a hub for inclusive civic engagement for transformational social impact”*





Next steps

- Appointment of key staff to enable delivery
- Programme of events are planned
- In-person “launch” of the Rural Centre of Excellence in the summer
- We want to hear from you

Inform

Invite to participate in co-design workshops

Participation in Living Labs





Join Our Network



Thank you



Contact us

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