

Scotland's Healthy Ageing Innovation Cluster

20 October 2021, 1000-1200



Digital Health & Care
Innovation Centre



Highlands and Islands Enterprise
Iomairt na Gàidhealtachd 's nan Eilean



Scottish Enterprise



The session will begin shortly we are just waiting for everyone to enter from the lobby

ON AIR

Attendee reminder

- We are recording this event and will host it on our HAIC webpage resources so it can be watched on demand at a later date
- If you do not wish to appear on the recording, you should keep your camera and microphone turned off for the duration of the event

Today's event

Joanne Boyle, Digital Health & Care Innovation Centre

Agenda

- 1000 – Welcome and Introductions
- 1010 – Partner update – Technology Enabled Care Programme
- 1020 – Commercial industry pre-recorded showcase videos
- 1030 – Susie Izumi, Department for International Trade
- 1115 – Q&A discussion
- 1135 – Gwilym Gibbons, Chief Executive, The Crichton Trust
- 1155 – Final comments
- 1200 – Close

Introduction



Digital Health & Care
Innovation Centre

Transforming great ideas into real solutions

Partner update

Technology Enabled Care Programme



Scotland's Refreshed Digital Health and Care Strategy

Background

SCOTLAND'S DIGITAL HEALTH & CARE STRATEGY

ENABLING, CONNECTING & EMPOWERING



- Scotland's first digital health & care strategy was published in 2018. It aimed to empower citizens to better manage their health and wellbeing, and ensure the underpinning architectural and information governance building blocks were in place.
- Covid-19 saw a rapid expansion and use of a wide variety of digital tools to support the continued safe and effective delivery of care. Organisations across Scotland have used digital technologies to work differently, both to combat Covid-19 and to continue essential health and care services, at great speed and under incredible pressure.
- The time therefore felt right to refresh the strategy, to acknowledge and build on the changes and developments.

Stakeholder Engagement: Key Messages



- Digital needs to be a **choice**. It does not work for all people, and not all of the time.
- ‘Do digital right’, in a way that truly puts people first and which recognises inequalities and is harnessed to tackling these.
- Need to address infrastructure as well as develop skills and leadership to ensure digital services.

More Key Messages

- The need to encompass and recognise the role of health, social care, housing, research and innovation.
- Much health and care activity takes place in communities. It must be a strategy that works for the third and independent sector as well as the statutory sector.
- Data needs to flow through and across services, breaking down silos in the way that services work, in a way that works for people.



Aims



Aim 1: Citizens have access to, and greater control over, their own health and care data – as well as access to the digital information, tools and services they need to help maintain and improve their health and wellbeing.



Aim 2: Health and care services are built on people-centred, safe, secure and ethical digital foundations which allow staff to record, access and share relevant information across the health and care system, and feel confident in their use of digital technology, in order to improve the delivery of care.



Aim 3: Health and care planners, researchers and innovators have secure access to the data they need in order to increase the efficiency of our health and care systems, and develop new and improved ways of working.

Priority Areas



Digital access

- People have flexible digital access to information, their own data and services which support their health and wellbeing, wherever they are.

Digital services

- Digital options are increasingly available as a choice for people accessing services and staff delivering them.

Digital foundations

- The infrastructure, systems, regulation, standards, and governance are in place to ensure robust and secure delivery.

Digital skills and leadership

- Digital skills are seen as core skills for the workforce across the health and care sector.

Digital futures

- Our wellbeing and economy benefits as Scotland remains at the heart of digital innovation and development.

Data-driven services and insight

- Data is harnessed to the benefit of citizens, services and innovation.

Our Four Strategic Priorities

We have set out four key strategic priorities for 2021/22 through which we will deliver the above objectives. The range of programmes and deliverables set out below are mutually supportive, but for ease of reading the main programmes are each set under one of the priorities, although they contribute to all.

1 Addressing Inequalities and Promoting Inclusion

People living and working within Scotland's Care Homes have access to the digital support, training, equipment and tools they need to fulfil their needs

People using services and working in social care digitally access and participate as an equal partner in care in the community

People at risk of drug-related harm have digital access to a range of digital solutions and re-designed services that meet their needs, supporting prevention of drug-related deaths

2 Engaging citizens, staff and services through Co-design and Participation

Policy, strategy and services are created around Digital that work for as many citizens as possible

Pathfinders have embedded the Scottish Approach to Service Design in transforming care with and for citizens, ensuring that digitally enabled interventions facilitate preventative, upstream supports and a replicable model of coordinated national support exists

Technology Enabled Care is widely recognised as a cornerstone in designing health, care and support services

Innovating to Support Transformation

3 Redesigning Services - Improving Citizen Access/Promoting Wellbeing

Citizens can routinely access appointments remotely, with Near Me embedded as a business-as-usual tool

Access to remote monitoring solutions for citizens is increased across Scotland, extending and expanding the availability of Digitally Enabled Remote Health and Care Pathways, digital communications, and appointments

Expansion of digital mental health to support the mental health and wellbeing of the population of Scotland

Telecare services will transition to digital and be on an improvement journey to drive up standards of care, increase the focus on prevention and personalisation and exploit new technologies

Greater awareness, engagement and adoption of digital technology is achieved within housing

Develop a greater understanding of the digital tools that people want and need to be able to access health and care services

The market has been stimulated into providing suitable 'next generation' technologies

A process is in place that identifies innovative solutions, products and approaches that address key national priorities and can be adopted at scale into mainstream business-as-usual

Further UK & International funding collaborations have been established, bringing inward investment in support of improvements and innovations in Technology Enabled Care

Transforming Digital Access: Developing a 'Digital Front Door' to health & social care services

The Big Idea

The Digital Front Door will support the citizens of Scotland to access to a wide range of **self-served** health and social care services from a common digital source location.

Enhanced service access & convenience

Better, consistent service experience

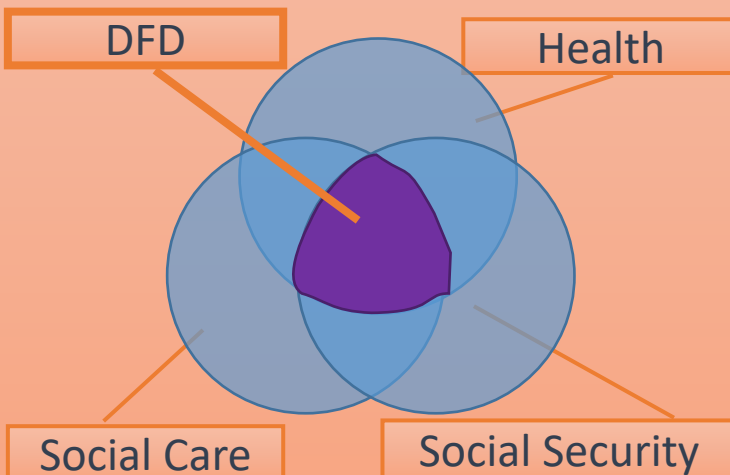
Reduced admin workload on services

Equity of access to digital options

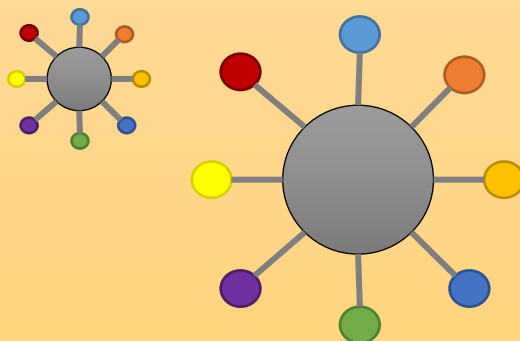
Digital Identity



Cross Sector Collaboration



Data



Road Map

Cross-Interest Steering Group

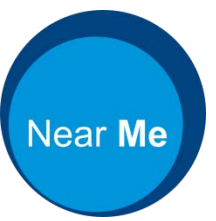
Consultation with Citizens & Stakeholders

Shared Vision & Roadmap

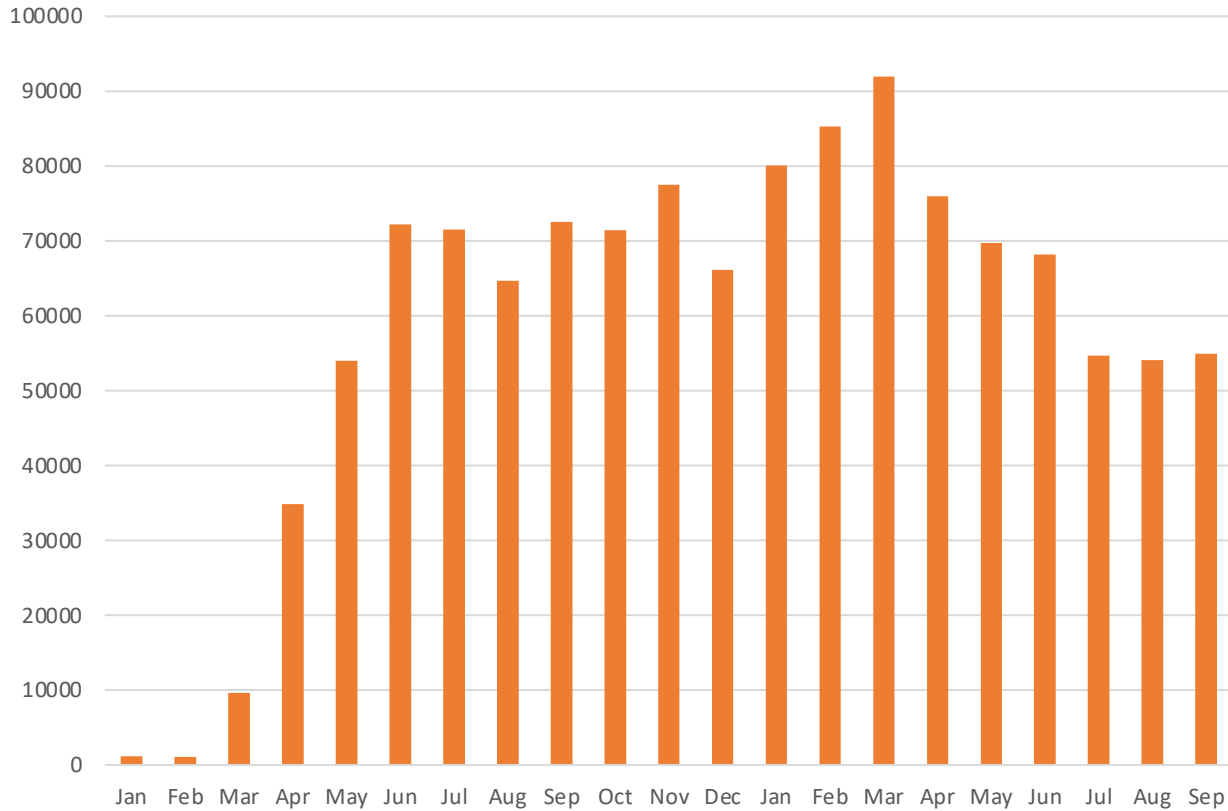
Proposals and Programme for Release 1.0

Build and Launch Release 1.0

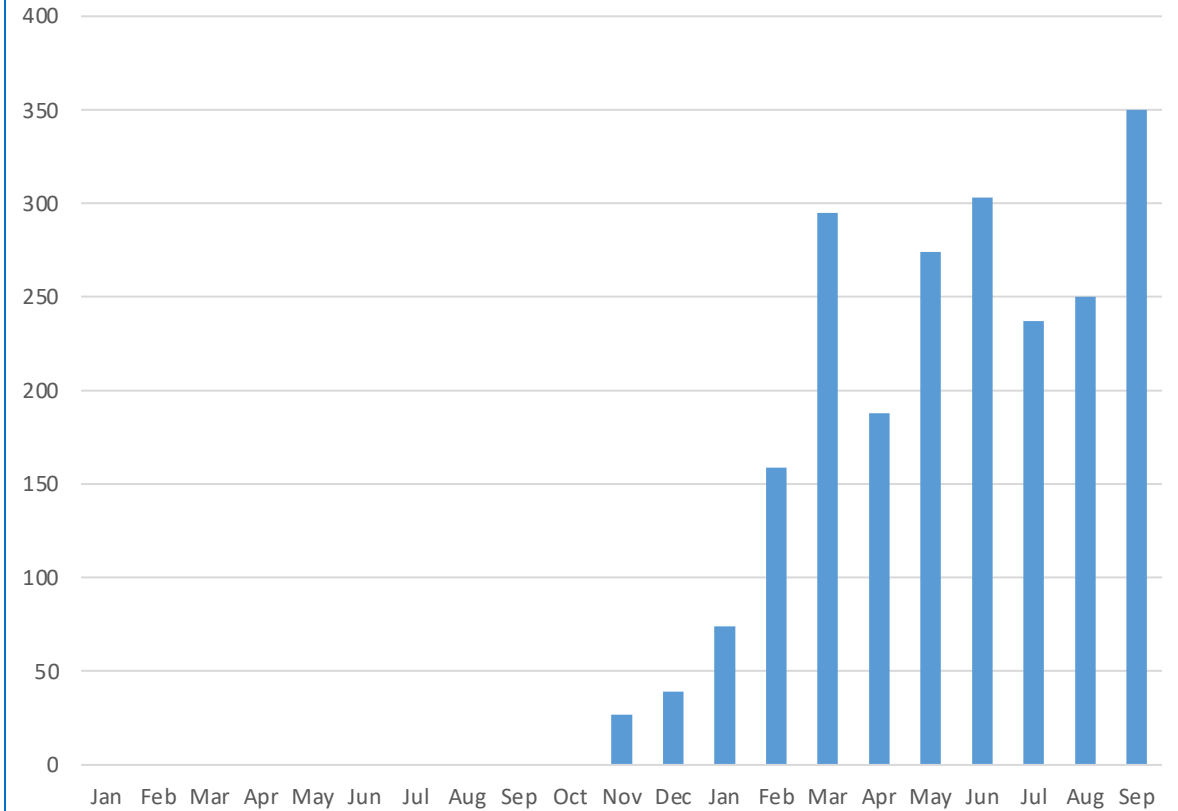
Health and Care & Public Services Uptake



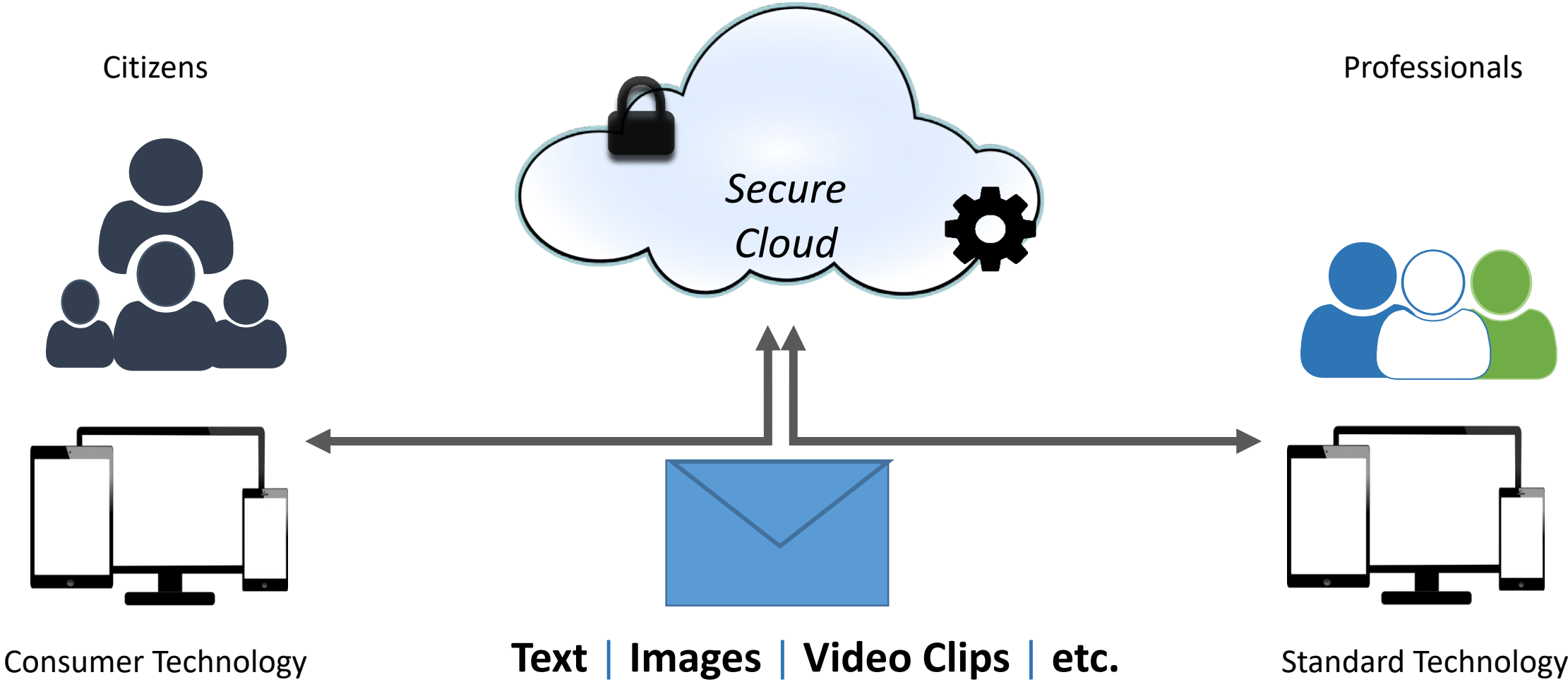
Health and Care Consultations



Public Services Consultations



Remote Health Pathways



Available Solutions and Capabilities Once for Scotland

Inhealthcare

- Nationally funded and procured
- Available to all Boards, LAs & HSCPs
- Multichannel + images + video clips
- Range of pathways for Home and Care Home plus build our own
- Highly configurable
- Good interoperability capabilities
- 5 year contract (3 + 1 + 1)
- Replaces *Florence* as technology of choice



Complementary initiatives

vCreate

- Secure video clips
- Neurology and Allied services being reviewed for national funding

Innovation work

- vCreate: additional disciplines
- Dynamic Scot COPD
- Digital Dermatology Appointments
- Clinical Assessment Tools
- Decision Support Tools

Digital Therapies

18 computerised CBT treatments covering depression, anxiety disorders, panic and OCD

Specific treatments tailored to different patient populations including CYP

Patients supported through local digital mental health teams

Patients waiting no longer than 10 working days for cCBT treatment

Suicide ideation of over 3,800 patients monitored a month

Usage and Reach

46,830 referrals received in last 12 months

9,642 of these self-referral

25% of psychology referrals now digital

301,706 digital self-guides accessed through NHS Inform

DIGITAL MENTAL HEALTH

Utilises multiple innovative technologies, delivered across a range of digital services

Improves citizen access to psychological therapies, providing additional treatment choice and early intervention

Supports existing services, while greatly increasing overall mental health service capacity

Self-help and Self-management

13 online interactive self-help guides available through NHS Inform.

March 2022: launch of self—management platform built around specific condition, topic and situational “communities”

March 2022: launch of national mental wellbeing site through NHS Inform

Future Priorities

Increasing availability of digital treatments
Children and young people
Older adults, including care home residents
Those at risk of drug deaths
People who have a learning disability
Those at risk of suicide
People in prison
Increasing digital inclusion
Increasing opportunities for self-referral

Digital mental health: Contributing to preventing unscheduled care

Emerging use of technology of housing to reduce the need for unscheduled care



Environmental sensors to monitor home environments enabling interventions to maximise tenant health and wellbeing



Remote support to adjust temperature settings

Automated messaging to support tenant health and wellbeing



Passive sensors e.g. motion sensors to identify changes in behaviour enabling earlier interventions

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www.tec.scot

Commercial industry
pre-recorded showcase videos

HEALTHBEACON



Neuron Innovations Ltd



WarnerPatch



Public Health Scotland: Scottish Hip Fracture Audit

Comprehensive geriatric assessment (CGA)



Function
and ability



Disease severity
and comorbidity



Mental health
and cognition



Support networks
and needs

White paper on the continued ageing of the global population

Susie Izumi, Department for International Trade



Department for
International Trade

Healthcare & Life Sciences - DIT





DIT Healthy Ageing Marketing Campaign



Objectives:

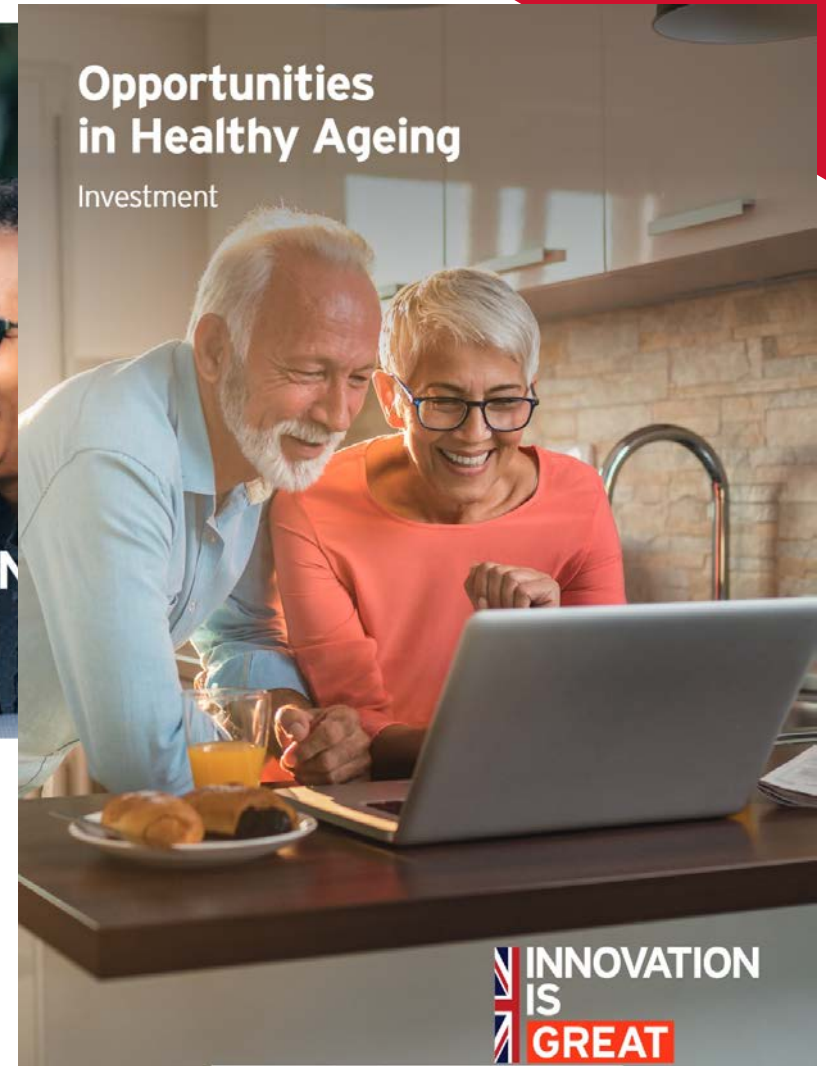
1. “Call to action” Concept Paper
2. Positioning the UK as a global leader in Healthy Ageing, create dialogue and debate with partners and organisations in the UK and overseas, and supporting the global challenge of ageing societies
3. Establish the UK as the preferred partner for innovation in a Healthy Ageing society

The Campaign...

- DIT Portal
- Concept paper
- Healthy Ageing content
- Partners articles
- LinkedIn
- Twitter & facebook posts



Department for
International Trade



INTEX



SILVER
VALLEY

AARP



ilc...

International
Longevity Centre UK



UK Research
and Innovation

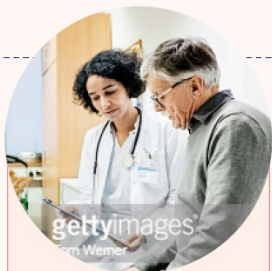
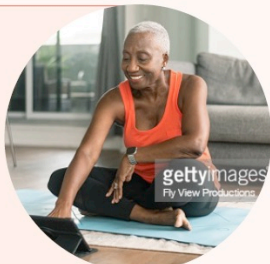


Digital Health & Care
Innovation Centre

The healthy ageing pathway

1 Health promotion, prevention & self-care

- Adult vaccination
- Digital lifestyle interventions
- Sustaining physical activity
- Social engagement systems
- Smart, age-friendly homes
- Virtual activities
- Remote monitoring
- Creating healthy & active places
- Managing the common complaints of ageing



2 Assessment & diagnosis

- Early detection & diagnosis
- Testing & diagnostic devices
- Rapid diagnostic testing



3 Treatment & rehabilitation

- Technology enhanced care systems
- MedTech
- Advanced Therapy Treatments
- Drug delivery devices
- Disease monitoring
- Digital rehab (eg physio)
- Clinical Management systems
- Living well with cognitive Impairment
- Digital therapies for mental health



4 Long-term care

- Self management & education programmes/tools
- Care management systems
- Advanced life planning
- Age friendly homes & care villages
- Healthcare professionals education & training
- Supporting social connections

Healthy Ageing Paper

The challenges defined

A longer life can bring a wealth of opportunities – not only more time to spend with loved ones, pursuing new career prospects, retraining and following hobbies, but also making important contributions to families, communities and the national economy.



The focus should not just be on specific conditions

Certain conditions are common in older age. But with its experience with an ageing population, the UK has researchers diving beneath these conditions to explore the mechanisms of the ageing process behind them. The UK Life Sciences Vision is driving this research, looking at mechanisms including stem cell regeneration, chronic inflammation and telomere shortening. Understanding the ageing process more generally is key in supporting healthy ageing and finding innovative ways to effectively prevent and treat age-related conditions.



Technology must be at the heart of addressing the issue

While some countries have had decades to adapt to an ageing population, some developing nations will have to adapt rapidly. The challenges can seem daunting but it's important to remember we now have advanced technologies at our disposal and it seems clear these will play a key role. The UK is already leading on implementing cutting-edge technologies, including AI, to pioneer new, streamlined ways of supporting older people and their caregivers.



Advanced therapies are key

Medical innovations are at the core of revolutionising ageing. From innovative cancer treatments to novel dementia therapies and pioneering medtech for stroke rehabilitation, the coming years may see a dramatic transformation in the way common age-related diseases are treated. In the UK, nationally funded research centres are focusing on translational studies that can deliver results fast enabled by a globally respected, high quality, pragmatic regulatory system. Scientists are able to draw on invaluable NHS data, one of the benefits that has made the UK a hub for research into ageing.

Promotion of UK export companies & Investment opportunities



Department for
International Trade

Thank you

Q&A discussion

An introduction to the Crichton Trust

Gwilym Gibbons, Chief Executive, The Crichton Trust



The Crichton | A place to breathe













An aerial photograph of a large university campus. The campus features numerous large, multi-story brick buildings with traditional architectural styles, interspersed with vast green lawns and mature trees. In the background, a city and rolling hills are visible under a clear blue sky. A semi-transparent white box is overlaid in the top-left corner, containing a list of statistics.

27 buildings
22 listed
85 acres of parkland
101 businesses
4 universities
6,376 students
1,150 employees



27 buildings
22 listed
85 acres of parkland
101 businesses
4 universities
6,376 students
1,150 employees

£123m GVA
South of Scotland
(2.5% of SoS GVA)

£156m GVA Scotland

Our vision: The Crichton is a world-renowned place for inspiring people, catalysing connection and collaboration, and as a driver of innovation

How
(our values)

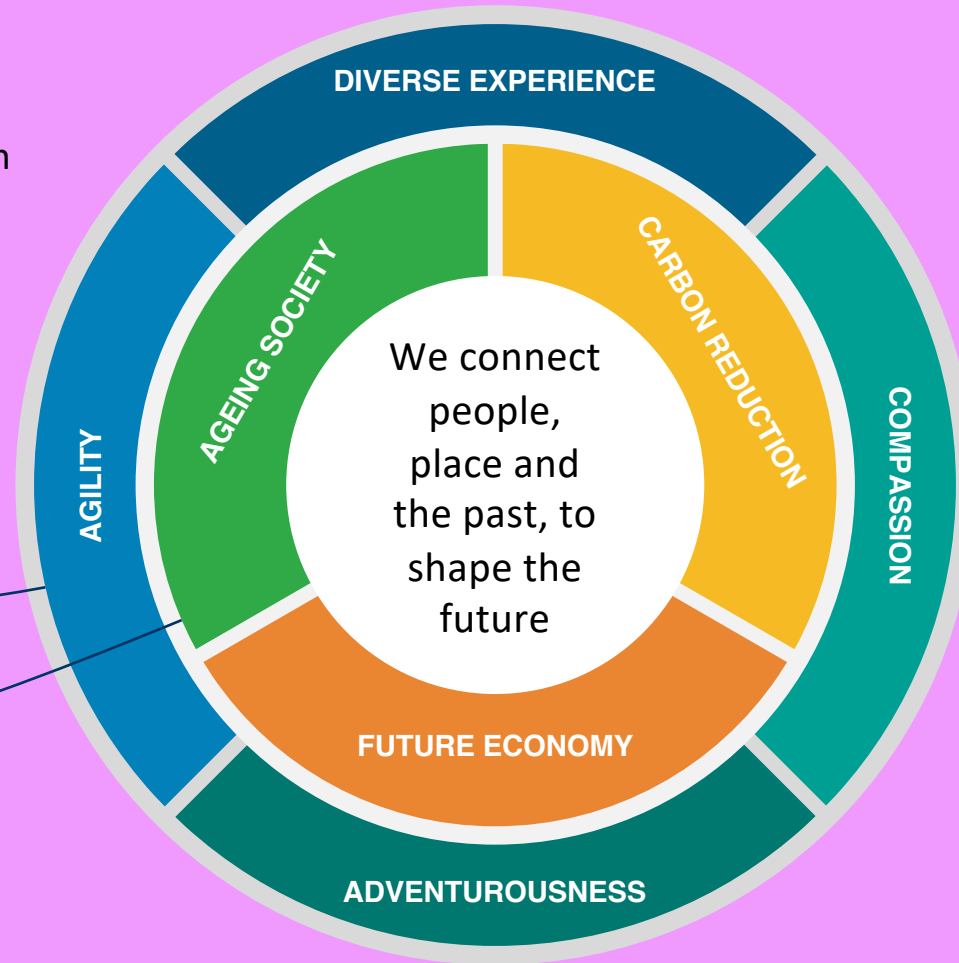


Our purpose: To generate answers to the big challenges of our time in relation to our **ageing society**, the urgent need for **carbon reduction** and the rise of the knowledge economy (the **Future Economy**)

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How
(our values)

Why



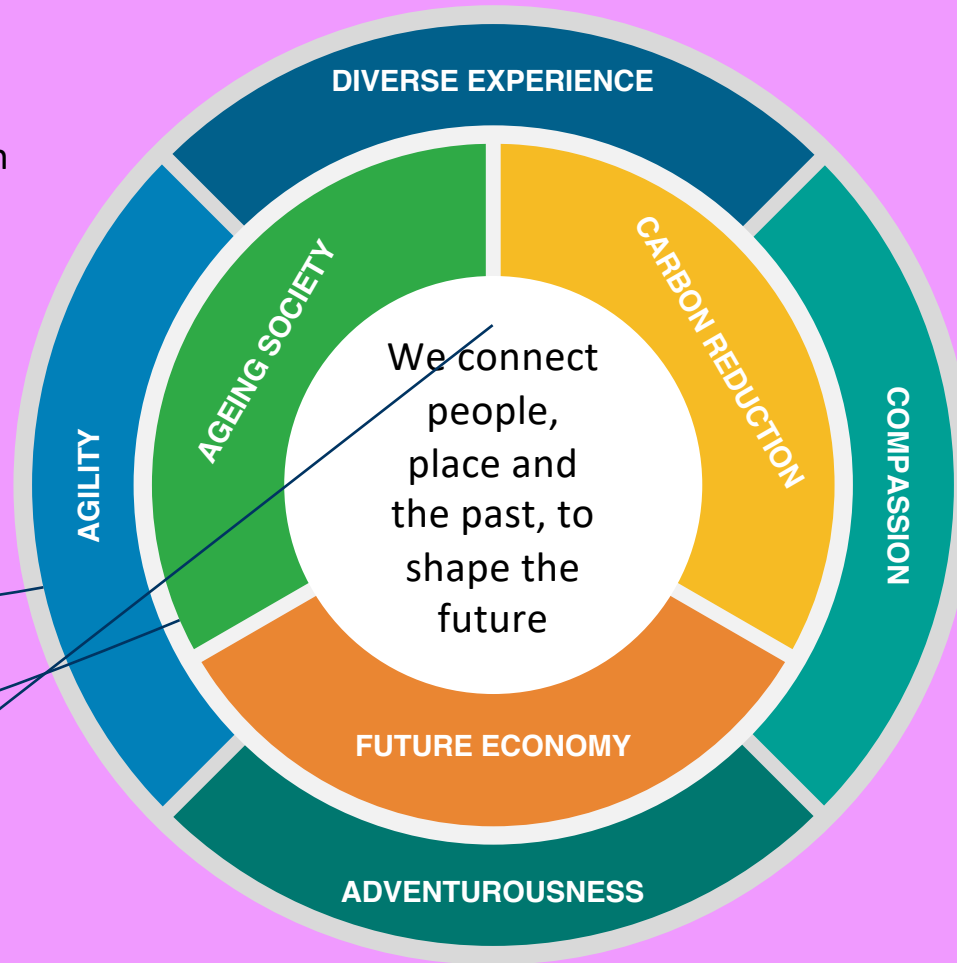
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How
(our values)

Why

What



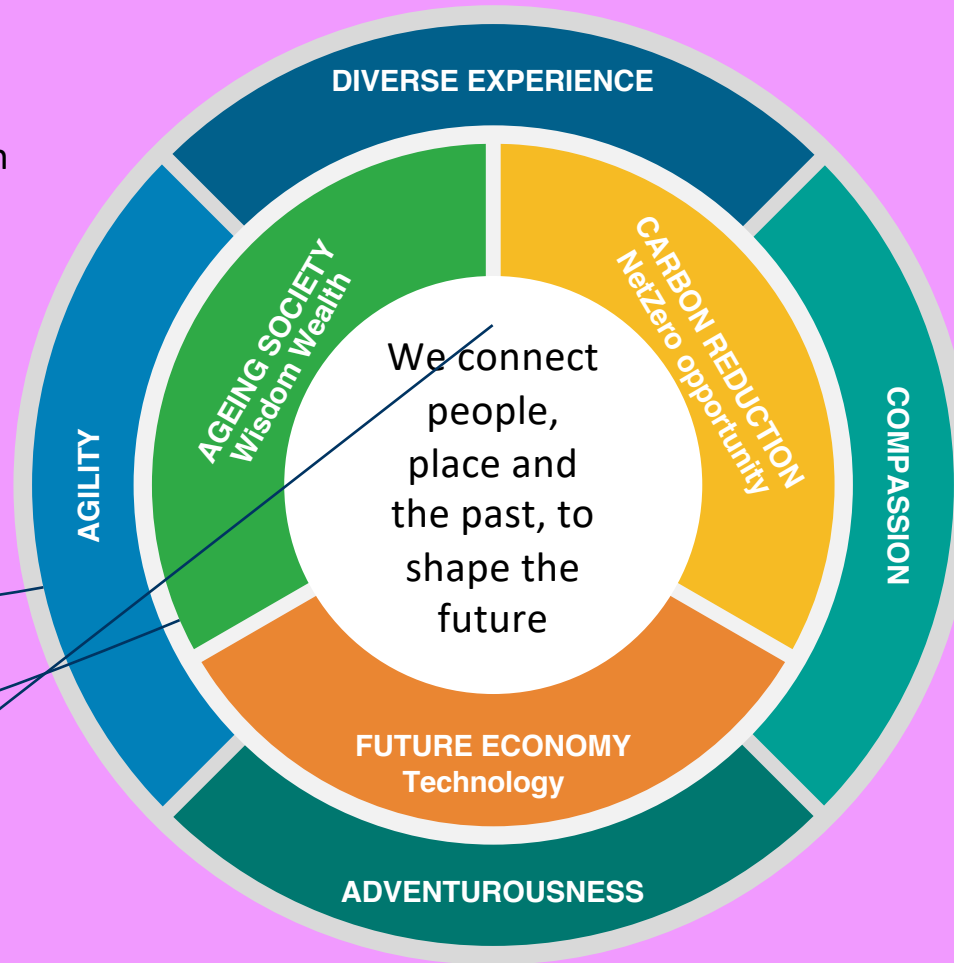
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How
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What



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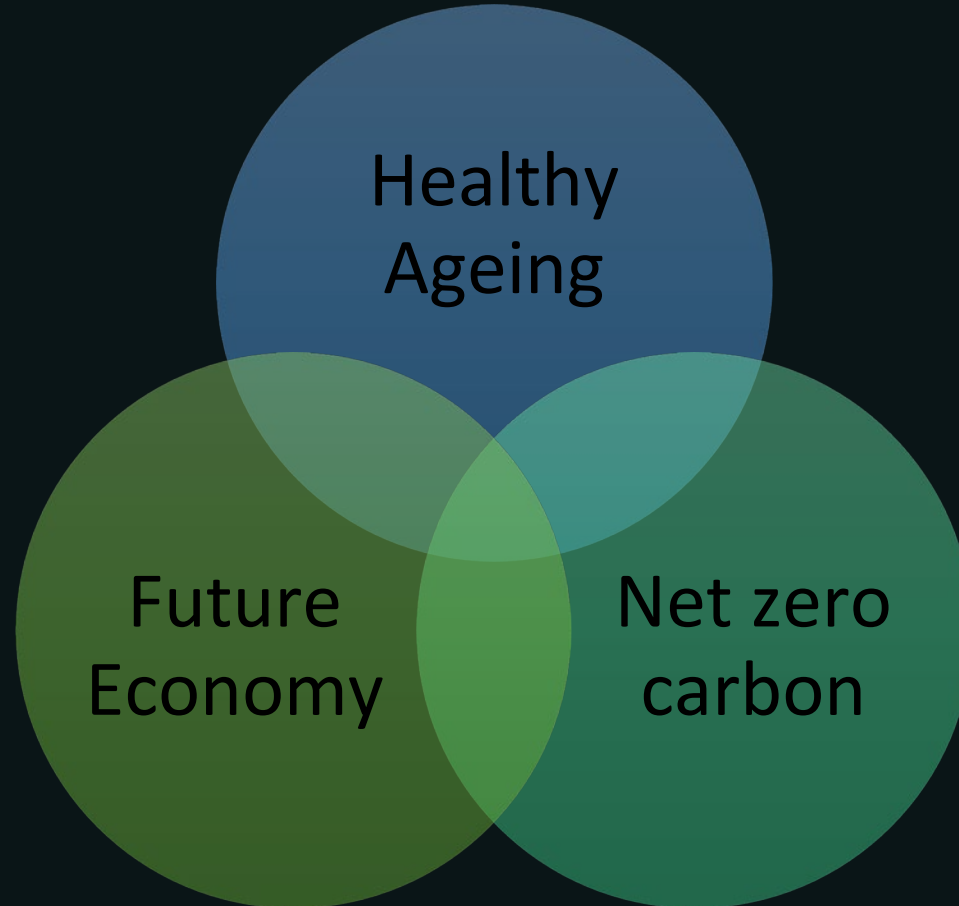
Our focus:
simply the
wellbeing of
our people,
place and
planet.

Our focus:
simply the
wellbeing of
our people,
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**Whole
system
change**



The Crichton | 21st Century Village



The Crichton | Trust



The Crichton | Care Campus

crichton.co.uk

#TheCrichton

carecampus.co.uk

#DGCareCampus



The Crichton | 21st Century Village



0-15

16-64

65+

Education

Work

Retirement



0-15

16-23

24-33

34-50

51-61

62-72

73-78+

Education

Work

Retraining

Work

Career break

Work

Retirement



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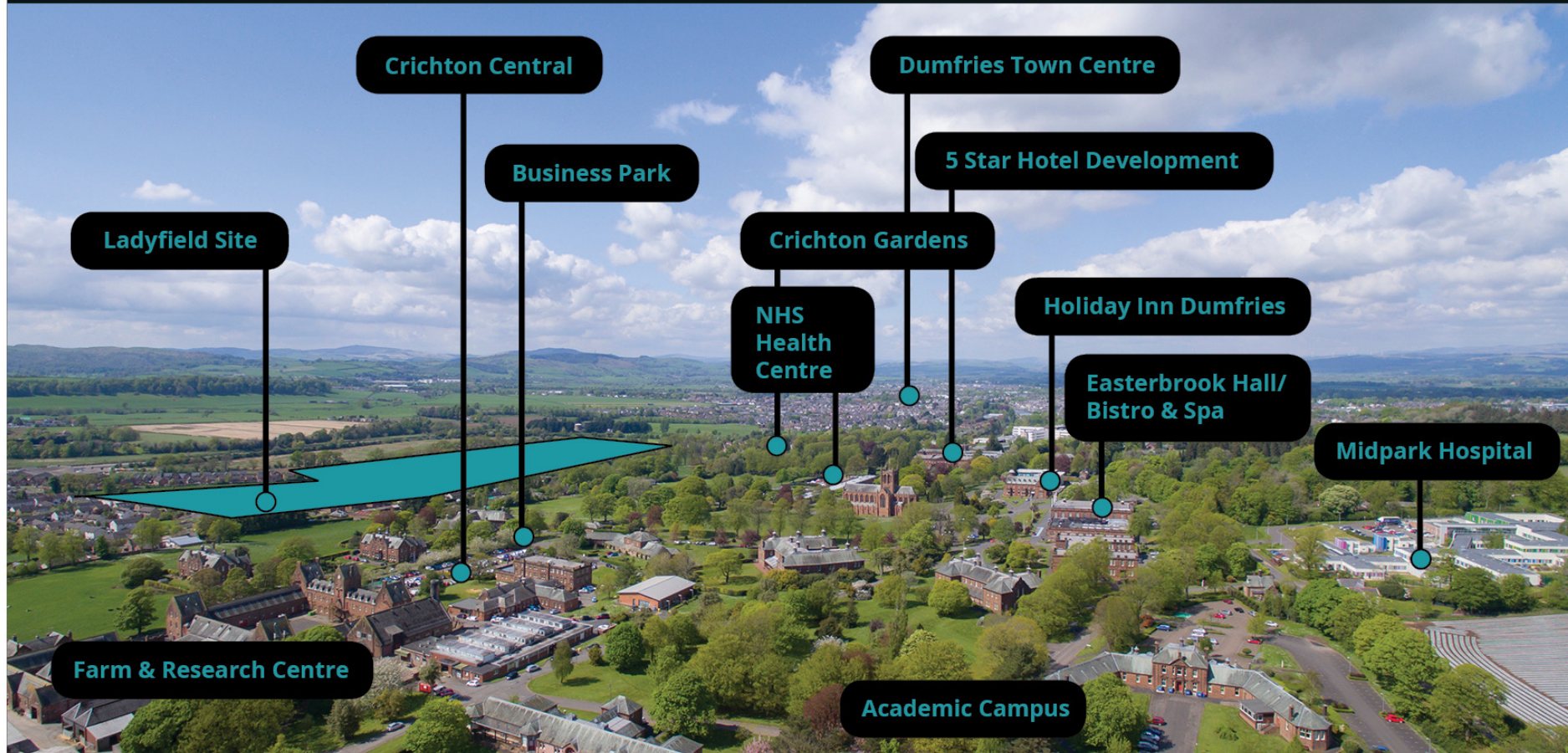
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Harnessing
wisdom
wealth



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^{The}**Crichton**

Gigabit connected

The Crichton Community - A connected living innovation lab

HOME: Smart adaptive homes for live,
assisted living robotics and digital health tech

WORK: Smart shared offices, supply chain and carbon monitoring
Testbed for autonomous vehicles and machinery

HERITAGE: Gamification, augmented reality, rich geo-tagged content

STUDY: Connected and blended learning, research and innovation





S5GConnect
Dumfries



CRICHTON
CENTRAL



CRICHTON
LIVE MAX




**CRICHTON
CENTRAL**
Inspiring Connections
**COLLECTION POINT
AND RECEPTION**






**CRICHTON
CENTRAL**

Inspiring Connections


COLLECTION POINT
AND RECEPTION


PIZZA



Inspiring Connections

- CONNECTORS
- WORKSPACE
- CAFE
- LOUNGE
- STAGE
- CHANGING PLACES

MEETING ROOMS

ARMED & REST ONLY






CRICHTON
CENTRAL



*inspiring
connections.*

The Crichton **Living** **lab** innovation community

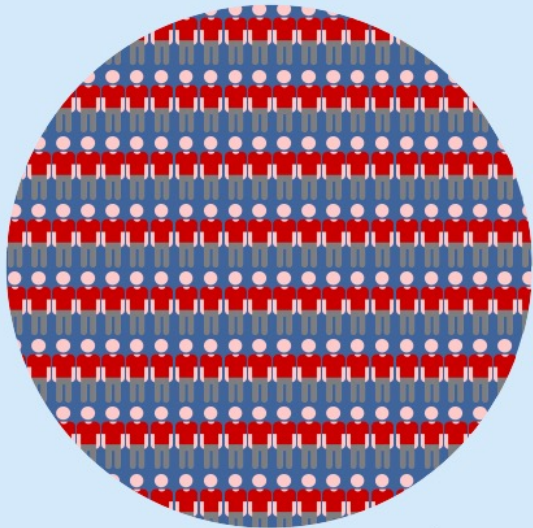
The rural petri dish



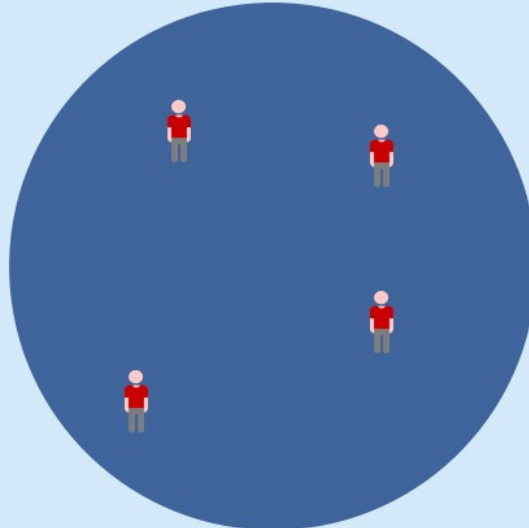


The Crichton | 21st Century Village

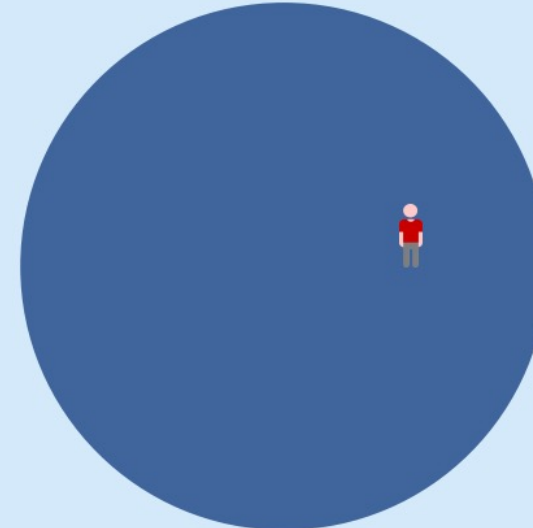
POPULATION DENSITY: number of people per hectare



Glasgow City: **33**



Scotland average: **0.7**



Dumfries and Galloway: **0.2**

Source: Scotland's Census 2011



The Crichton | Trust



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carecampus.co.uk
#DGCareCampus

The Crichton Data community

The rural petri dish

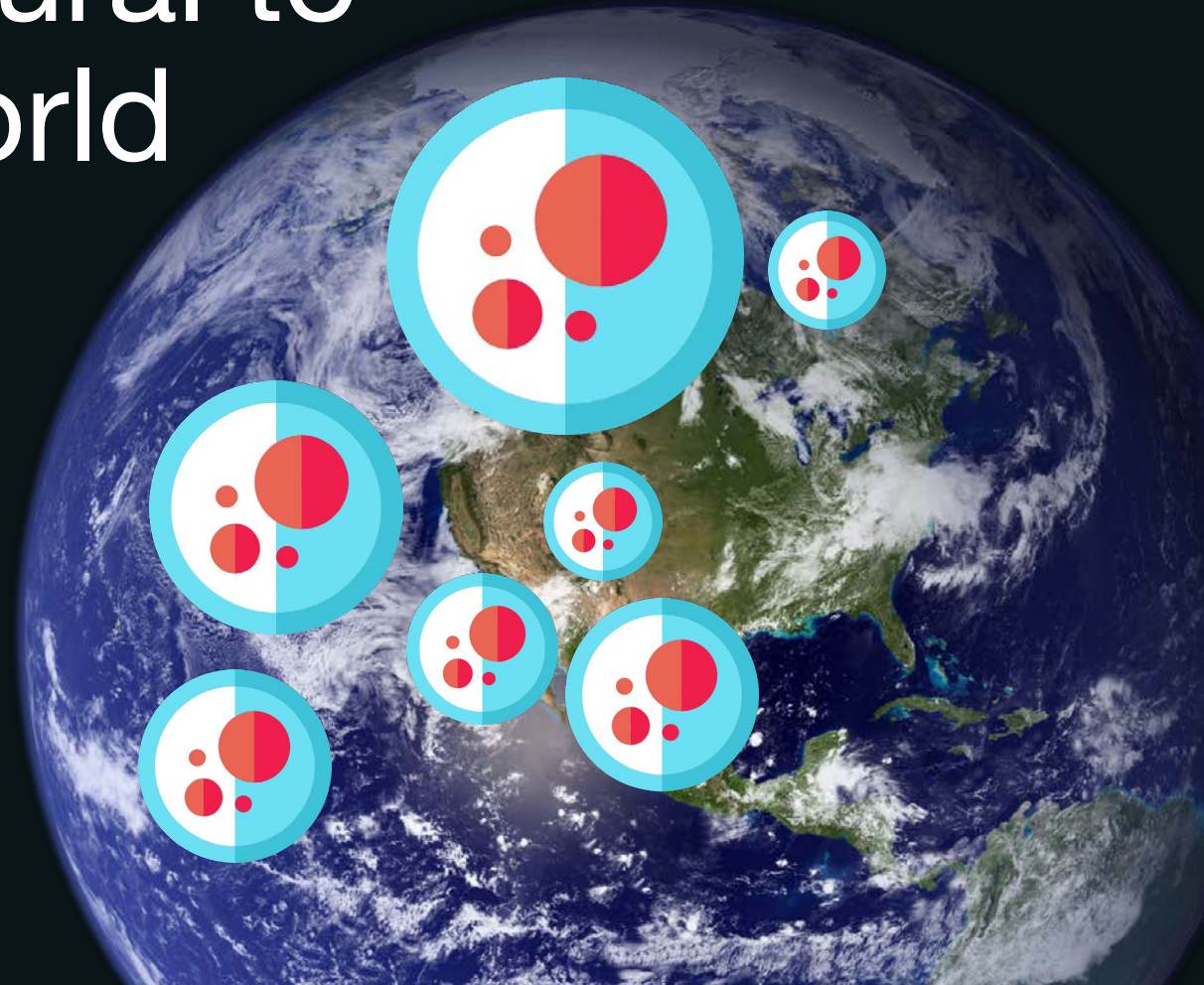
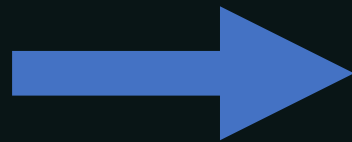
Pressure: Technology



Pressure: Ageing

Pressure: Climate

Prototyping solutions
that scale and/
replicate from rural to
urban to the world





Thank you for listening, come follow us and join us...

Gwilym Gibbons
Chief Executive | The Crichton Trust

#TheCrichton



/gwilymgibbons



@DGCareCampus

@CrichtonTrust

@GwilymGibbons

www.crichton.co.uk

www.crichtoncentral.co.uk



Final comments

Joanne Boyle, Digital Health & Care Innovation Centre

Take our post event survey

- Scan the QR code →

Or

- Enter:

[https://www.surveymonkey.co.uk/r/Post HAIC Event Survey](https://www.surveymonkey.co.uk/r/Post_HAIC_Event_Survey)



Next HAIC event

- 01 December 2021
- Microsoft Teams
- Focus on
- Register:

Funding Opportunities

- All our current funding opportunities are available on the HAIC webpage: <https://www.dhi-scotland.com/innovation/innovation-clusters/healthy-ageing/>

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

- Enter:

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/

