



SCOTTISH HEALTHY AGEING INNOVATION CLUSTER

Dec 2019

WHO definition of Healthy Ageing:
**“the process of developing and
maintaining functional ability that
enables wellbeing in older age”**

This includes a person's ability to;

- meet their basic needs
- learn, grow and make decisions
- be mobile;
- build & maintain relationships
- contribute to society

HEALTHY AGEING CLUSTER - PRIORITIES

COLLECTIVE LEARNING

Awareness of Policy & Guidance

- Scottish & UK Government – Policy Direction
- Relevant Strategic Guidance & Best Practice
- Team Scotland Approach

Awareness of Technology

- Consumer Technology
- Keeping pace with a fast moving market
- Build Trust to Share

Identify Funding Opportunities

JOINT DEVELOPMENTS

Shared Focus on Specific Conditions/Challenges

- Falls,
- Diabetes,
- Physical Activity

Support Independent Living

- Transport
- Housing
- Supporting people to work longer
- Hospital at home
- Care in the Community
- Reducing inequalities

Develop

- Test beds
- Data/Analytics
- Patient/Citizen Journeys

RESEARCH & METHODS

Prevention

- When should interventions best be made?
- Better adoption at earlier stage in life?

Evidence Impact

- Health Economics
- Methodologies
- Real World Impacts

Ensure Citizen at the Centre

- What does the citizen want?
- How best engage with the end user?
- Co-design
- Build Trust

SKILLS & CAPABILITIES

Skills & Training

- Joint Learning

Business Models for Scotland

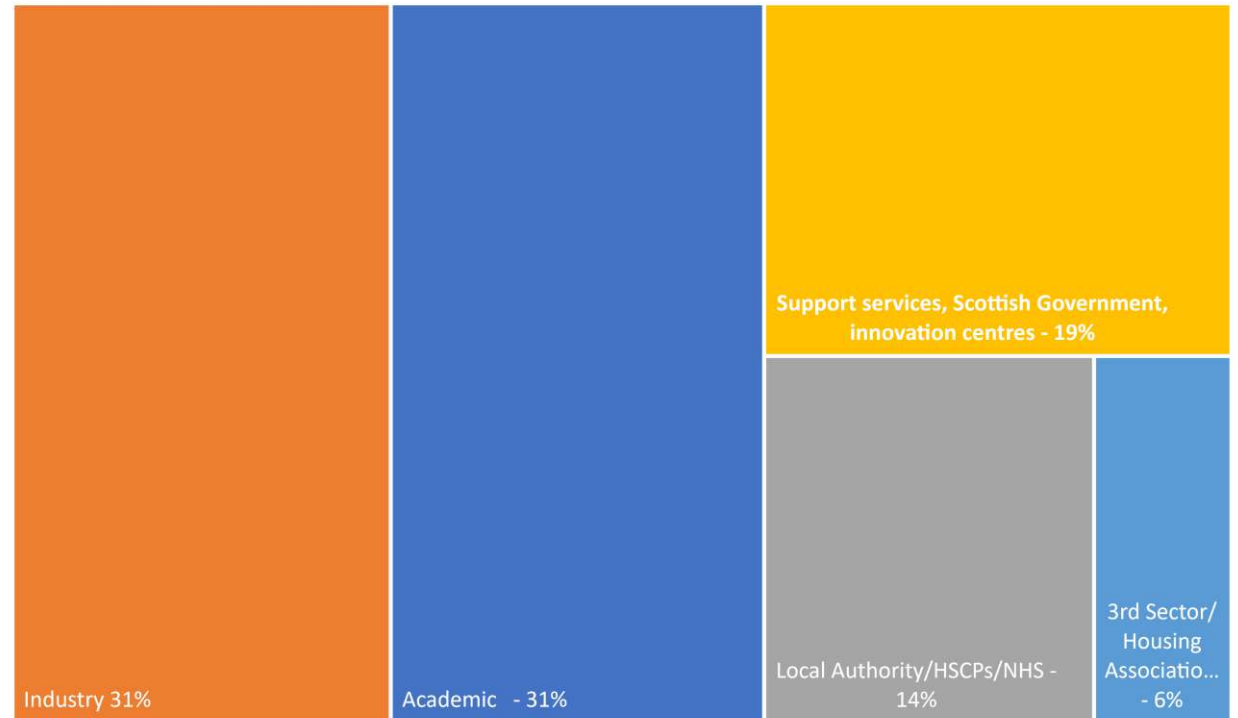
Scottish Healthy Ageing Innovation Cluster

Aim: Accelerate digital innovation and adoption in Health & Care

Purpose:

- Create a collective of shared interest, expertise and skills
- Share information & support knowledge exchange
- Seek and solve demand led challenges
- Identify funding/host challenge opportunities
- **Build collaborations that are greater than the sum of the individual parts**

HAIC Membership – 260+ individual members – Dec 2019



Healthy Ageing Innovation Cluster

4th December 2019

AGENDA

10am	Welcome and Introductions
10:15am	Karen Mechan – Age and Older People’s Equality, Scottish Government
10:45am	Helen Northmore – Healthy Ageing Innovation in Wales
11:15am	Tea/coffee/networking
11:30am	Can Do Innovation Challenge Fund
11:40am	Sharing capabilities: 3 minute Pitches
12:30pm	Lunch and Networking
1:30pm	Key Challenges Discussion Session
2:15pm	IUK Healthy Ageing Challenge - Trailblazers – Stage 1 Proposals
2:45pm	HAIC – Feedback/Review/Next Steps
3:00pm	Close

Scotland Policy Conferences

Older people's wellbeing in Scotland - assessing progress on policy implementation, access to housing and care services, and tackling isolation

Wednesday 15th January 2020, Edinburgh

- Christina McKelvie MSP, Minister for Older People and Equalities, The Scottish Government
- Phillip Gillespie, Director, Development and Innovation, Scottish Social Services Council
- Peter Macleod, Chief Executive, Care Inspectorate
- Dr Vikki McCall, Senior Lecturer, Housing Studies, University of Stirling
- Professor Judith Sixsmith, Professor, School of Nursing and Health Sciences, University of Dundee
- Anne Callaghan, *The Campaign to End Loneliness*; Diana Findley, *Scottish Older People's Assembly*; Karen Hedge, *Scottish Care*; Lilian Macer, *Fair Work Convention Inquiry into Social Care in Scotland*; Mary McIntosh, *Barclays* and Bernadette Monaghan, *Glasgow City Council*
- *Registration*; <https://www.scotlandpolicyconferences.co.uk/book/older-people-in-Scotland-20>

Opportunities

Global Business Innovation Programme – fully funded visit to South Korea.

- To explore opportunities for tech transfer and innovation collaboration
- 5 day itinerary – visit taking place March 2020
- Open to SMEs developing digital health technology associated with AI, big data and devices and solutions that use digital health technology to accelerate and improve health outcomes.
- **Short deadline to register interest!** - 6th December 2019
- however, it is a basic Eventbrite link:
<https://www.eventbrite.co.uk/e/global-business-innovation-programme-south-korea-digital-health-tickets-80079478877>

Health Foundation – Advanced Applied Analytics



- £750k available for 12 project teams across the UK
- Closing date – 13th January 2020
- Aimed at improving analytical capabilities in support of health and care services...
 - *improve analytical capability and show how this will support better care in the future*
 - *led by a local/regional NHS or social care provider or commissioning organisation including local authorities, though partnerships with other groups and sectors are welcome*
 - *benefit from funding of up to £75,000 per project*
 - *start no later than September 2020 for a maximum duration of 15 months.*
 - *Projects that help senior managers and clinicians understand the value of better analytics. So, for example they are keen to support initiatives that test out innovative approaches to engaging senior staff in data analytics.*
 - *Projects that demonstrate a clear path from the initial project to longer-term and sustainable changes beyond the life of the individual project.*

<https://www.health.org.uk/funding-and-partnerships/programmes/advancing-applied-analytics>

Innovate UK – UK/Israel Open Collaboration R&D competition 2019



- Value: between £200k-£250k for the UK Partner
- Project Length: Up to 2 years – starting Nov 2020
- Up to £1.5 million for collaborative R&D Projects resulting in new product/process or service. Must be innovative and involve technological risk and target large scale global markets.
- Must include at least 1 UK partner and 1 Israeli Partner
- Registration closes 19th February 2020
- <https://apply-for-innovation-funding.service.gov.uk/competition/501/overview#dates>

Key Challenges Discussion Session

Engagement & Purpose: Lyn Jardine - Viewpoint HA; Anna Brown - Carezapp

Daily Living & Lifestyle: Gillian Fyfe – Alzheimer's Scotland

Caregiving: Moira Mackenzie

KEY CHALLENGES DISCUSSION SESSION

8 Key Challenges



INNOVATION PRIORITIES FOR AGING 2.0 COMMUNITY

- Topics identified from 6 years of bottom-up and top-down dialogue with stakeholders from across Aging 2.0's interdisciplinary, intergenerational, international community of older adults, senior care providers, thought-leaders and entrepreneurs.



Grand Challenges (1)



Ageism and outdated social norms have led many older adults in both rural and urban communities to feel isolated and marginalised. Helping older adults get and stay meaningfully engaged is critical for their health and the health of our communities. New and creative ways are needed to not only tap into their wisdom but also provide opportunities for lifelong learning and meaningful engagement across the lifespan.

Grand Challenges (2)



Despite the majority of older adults stating a preference to age in place, “one third of people over the age of 65 need assistance with at least one activity of daily living (e.g. eating, bathing, dressing)”. Products and services are needed to not only support older adults basic daily activities, but also to foster and support their ability to thrive, pursue their passions and engage with their chosen lifestyle.

Grand Challenges (5)



Care for older adults is provided by informal and formal caregivers, both of which increasingly care for people with high levels of acuity and complex conditions. Family caregivers - who are often juggling other family and work responsibilities while living remotely from the care recipient - need better support, training resources and tools to support their loved ones and themselves. On the professional side, staff shortages and quality concerns require new solutions to help attract, train, develop and leverage scarce human capital.



What next...?

Activities	Timescale
Establish the Cluster	Dec 2018 ✓
Identify Key Challenge Areas for Collaboration	Feb 2019 ✓
Scope & Refine Collaborative Propositions	Ongoing
Identify funding opportunities & timelines	Ongoing
Host challenge competitions/Bid submissions	Not started
Implementation of Proposals	Not started
Learn & Share	Ongoing



Healthy Ageing Innovation Cluster

Glasgow

Helen Northmore
Programme Manager
Digital Health Ecosystem Wales

What is the Digital Health Ecosystem Wales?

DHEW convenes and connects industry, academia, NHS and social care in Wales.

We aim to make it faster and easier to adopt digital health technologies.

We are a collaboration between the Life Sciences Hub Wales and NWIS, funded by the Welsh Government.

- We are developing a platform of APIs to open NHS Wales systems and data
- We bring people together to tackle barriers, connecting projects with partners and support
- We have a pipeline of projects, helping accelerate adoption of digital healthcare technologies

Welsh Health & Care

- £7.3 billion budget in 2017/18
- £2,300 per person
- 7 Health Boards
- 3 Health Trusts
- 750,000 hospital admissions
- 3m outpatient attendances

**Integrated health and social care
University Health Boards**

Wales



18% of people in UK 'often' or 'always' feel lonely

Equivalent to 458,000 people in Wales

In 2011, almost 30% of rural Welsh population was aged 60+

Compared to 21% for urban areas

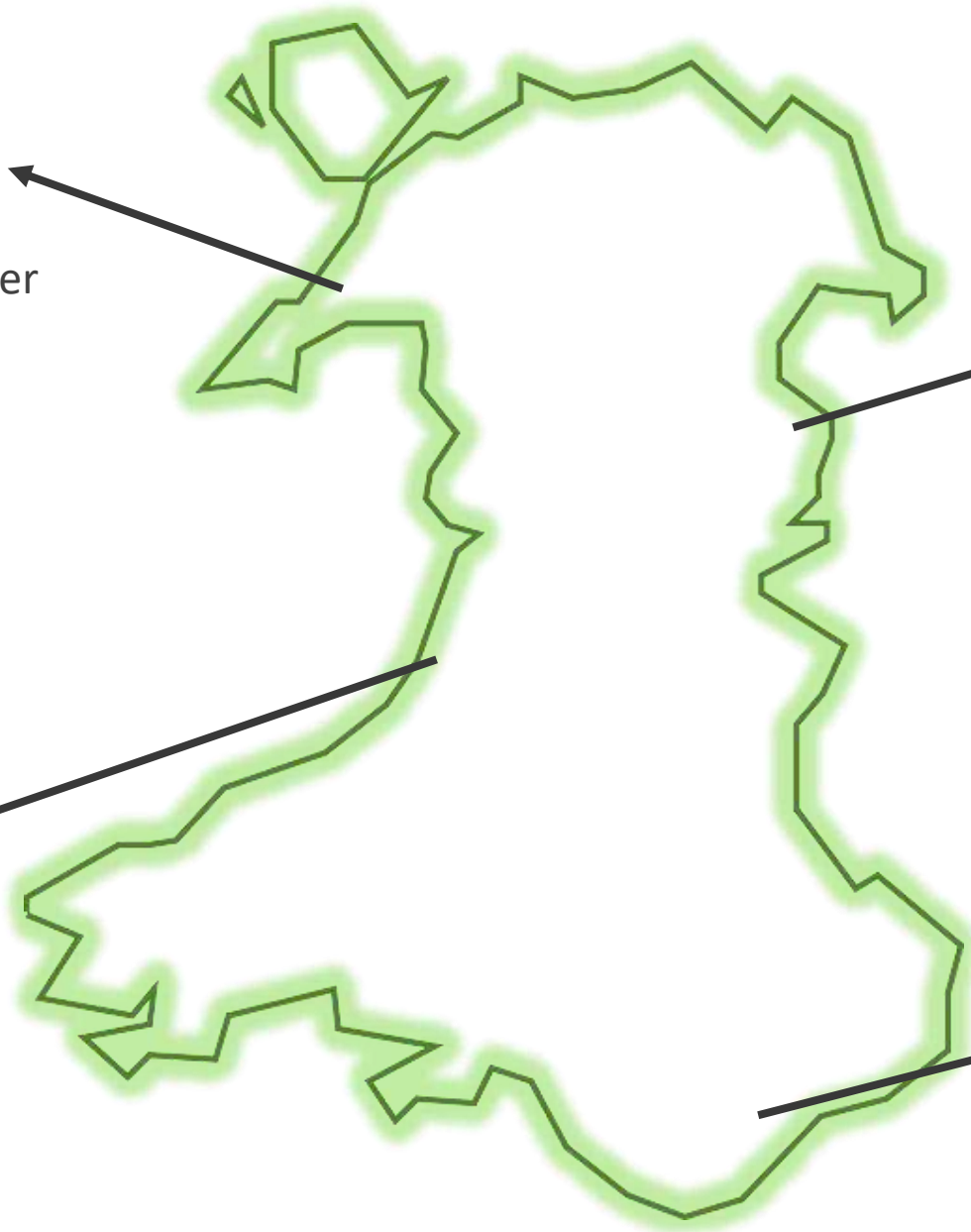
25.3% of older people in Wales reported being lonely & 26.9% socially isolated

Data from the Cognitive Function and Ageing Study – Wales

Over 800,000 aged 50+ in Wales

This will rise to over one million people in the next twenty years

Wales has a higher percentage of older people within its population than any other part of the UK



Nearly 20% of the Welsh population live in communities of less than 1,500 people, compared with 10% in England

In West Wales
Nearly a fifth (19.2%) of the population is aged 75 years and over

Research commissioned by the Eden Project estimates the cost of social isolation and disconnected communities in Wales as £2.6 billion per annum (including £427m demand on health services)

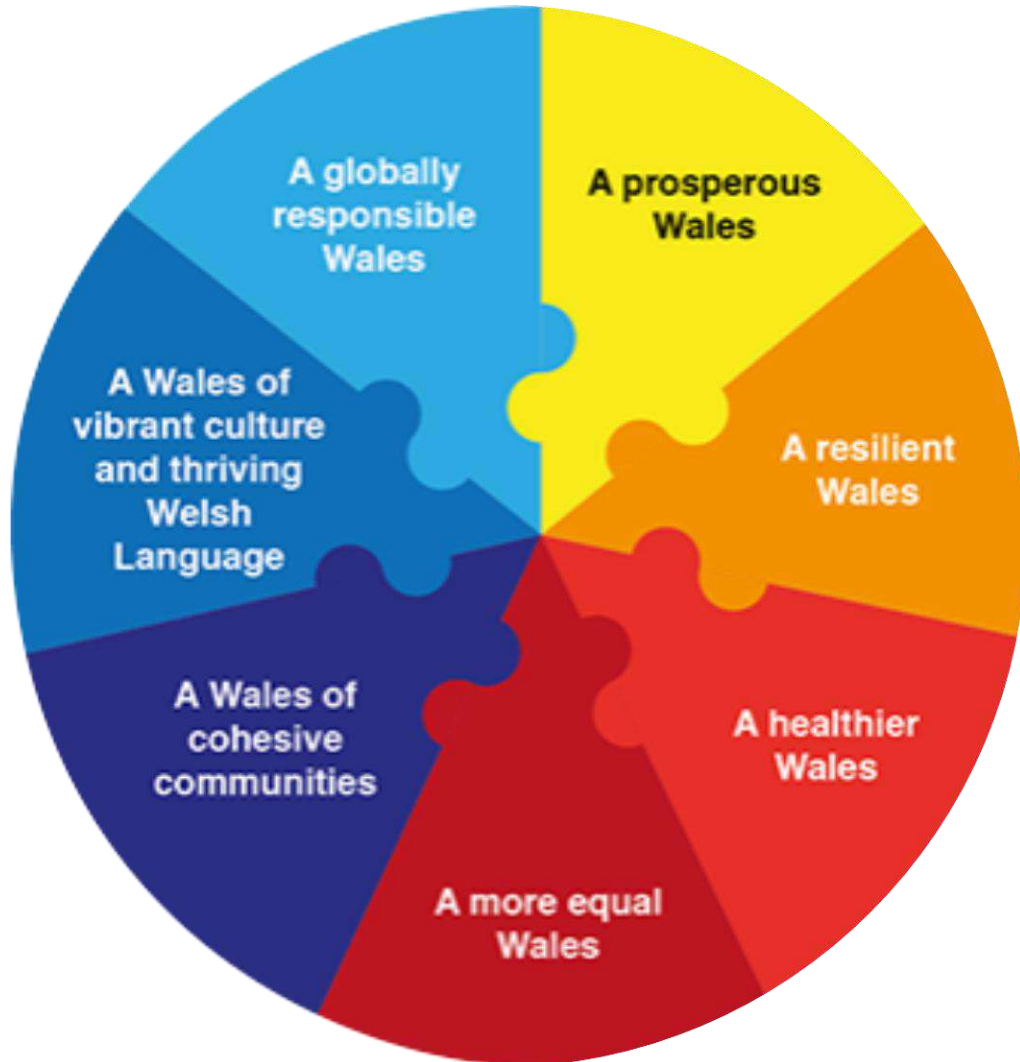


Landscape

- Welsh Government
- Older Persons Commissioner
- 22 Local Authorities (11 with housing stock)
- 36 Housing Associations
- 22 Care and Repair Assocs
- Age Alliance Cymru
- Centre for Ageing & Dementia Research and Centre for Innovative Ageing, Swansea University
- ARCH



Wellbeing of Future Generations Act



- The Well-being of Future Generations Act requires public bodies in Wales to think about the long-term impact of their decisions, to work better with people, communities and each other, and to prevent persistent problems such as poverty, health inequalities and climate change
- 22 Public Service Boards

Torfaen – GovTech Catalyst

- Torfaen is a small county in SE Wales. It is home to 93,000 people with 1 in 56 households receiving a package of home care
- By 2039 the number of people over the age of 85 in Torfaen will have more than doubled from 2,541 to 5,594
- Torfaen received £1.25m from Cabinet Office to hold a competition encouraging technology firms to develop and pilot solutions to our challenge to use data and digital technology to deliver better adult social care
- In Phase 1, five potential projects have been selected to receive up to £50,000 each to cover R&D costs. The best of these could be awarded up to £500,000 in Phase 2 to turn these potential solutions into viable products or services

Healthy Ageing Trailblazer

- Life Sciences Hub brings together NHS, social care, industry and academia around the Grand Challenges
- At least 4 bids went in from Wales...that we know of
- How do we build on those ideas and partnerships?





Thank you

Stay in touch...

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 @DHEWales

IECHYDDIGIDOL.CYMRU
DIGITALHEALTH.WALES

EIDC
Ecosystem Iechyd Digidol Cymru

DHEW
Digital Health Ecosystem Wales

Karen Mechan

Age Equality & Older People Policy
Scottish Government

A Fairer Scotland for Older People – A Framework for Action

Published 3 April 2019



All Our Futures: Planning for a Scotland with an Ageing Population

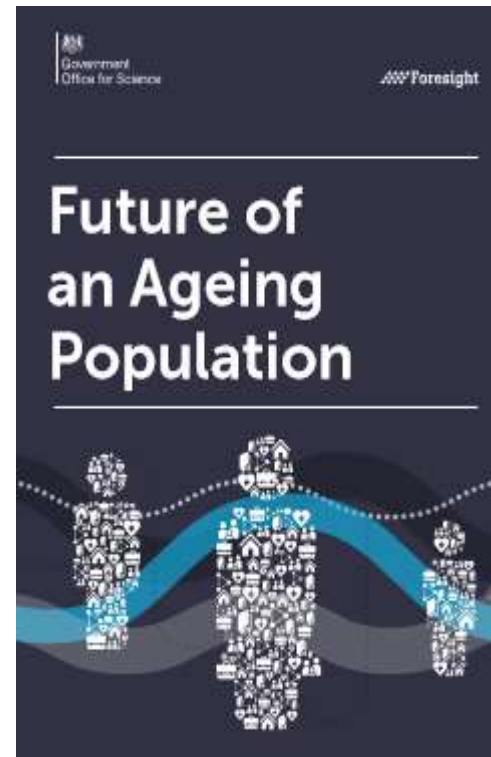
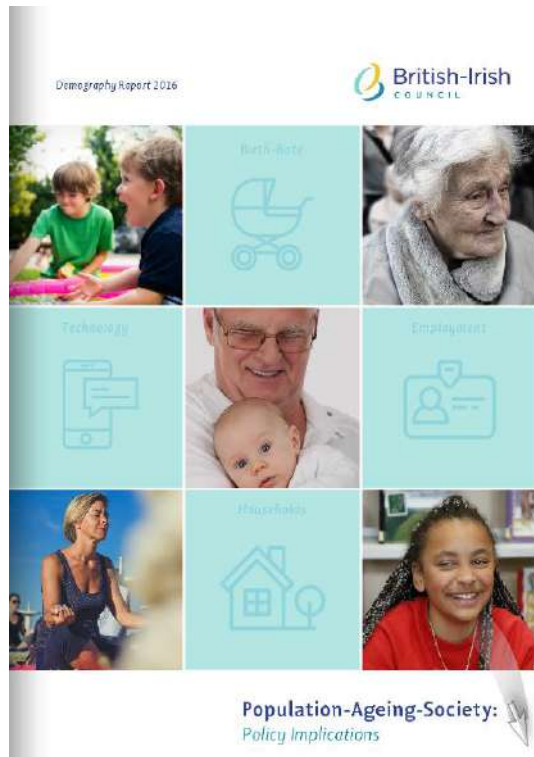


Published by the Scottish Executive in 2007

46 Recommendations covering 6 themes:

- 1. We will act to continue to improve opportunities for older people - to remove barriers and to create more chances for older people to participate and to be involved in their communities - as volunteers; through paid work; in learning, leisure, culture and sport.**
- 2. We will act to forge better links between the generations**
- 3. We will continue to act to improve the health and quality of life of older people**
- 4. We will continue to improve care, support and protection for those older people who need it.**
- 5. We will ensure that the right infrastructure is in place for a Scotland with an ageing population with housing, transport and planning progressively meeting the needs of all ages.**
- 6. We will offer learning opportunities throughout life.**

Other work



Being Older in Scotland

- Intersectionality
- Population change
- A diverse policy portfolio
- Ageism
- Life expectancy
- Human rights

Purpose of the Framework

- Platform for action
- Address age inequality
- Policy coherency
- Tackle intersectional inequalities
- Explore future areas of work

Development of the Framework

Stakeholder Engagement

- Establishment of the Older People's Strategic Action Forum
- Identification of Priority themes and areas for action
- Mapping of Scottish Government Policy
- Further consultative engagement with Stakeholder's members and Networks

Areas for Action and Priority themes

Areas for action:

- Hearing older people's voices
- Supporting positive engagement
- Removing barriers to positive ageing

Themes:

- Accessing public services
- Engaging with, and contributing to communities
- Ensuring financial security

Where are we now?

- Implementation – 56 actions
- Ageism Guidance?
- Monitoring by OPSAF
- Annual report – April 2020

Contact details:

Karen Mechan

Age Equality lead:

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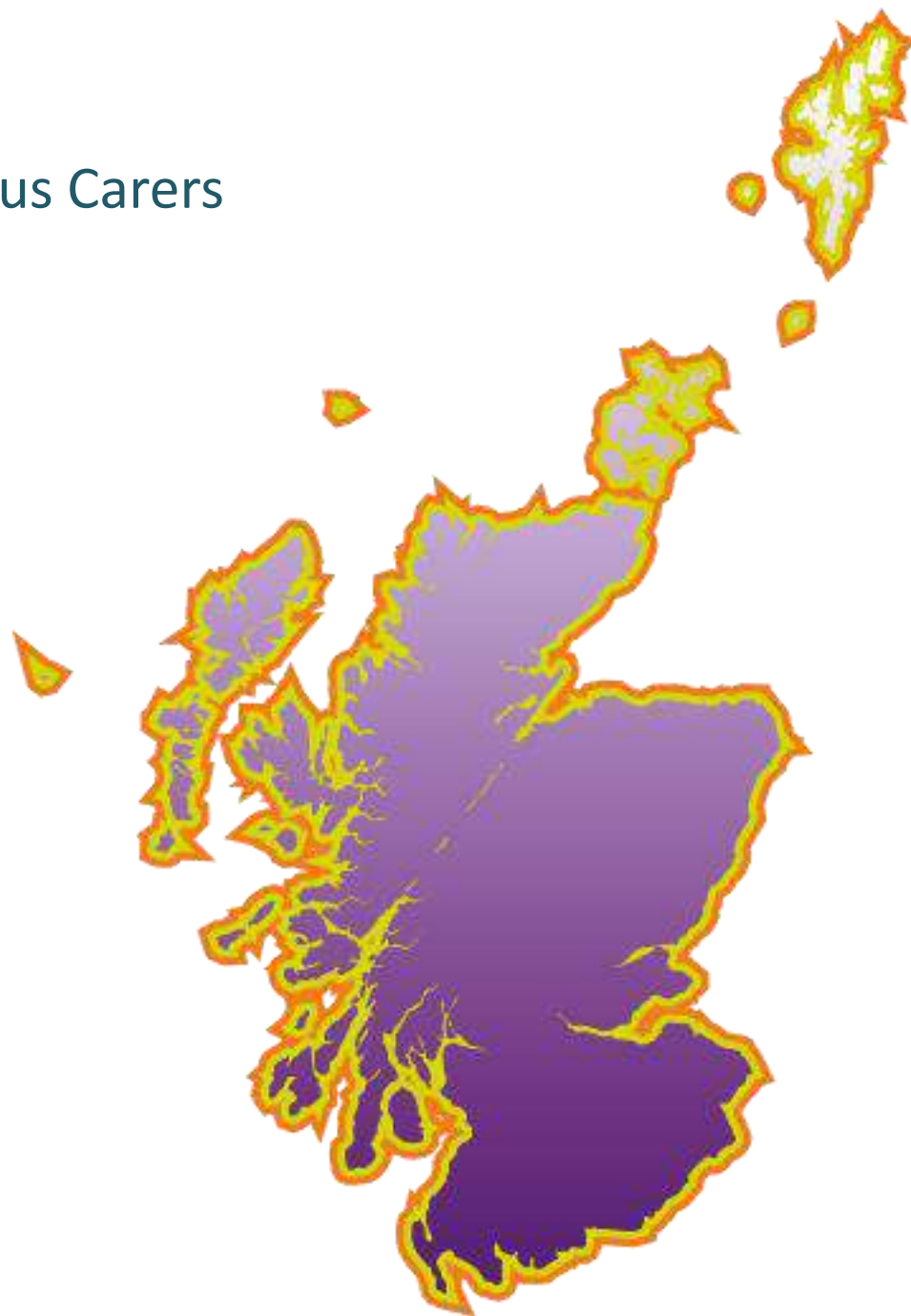


Gillian Fyfe, Head of Digital

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5.45 Million, Population of Scotland
93,000 People Living with Dementia plus Carers
3,200 Under the age of 65
500 Alzheimer Scotland Staff
21 Dementia Resource Centres



Test of Change



17 Partners

Alzheimer Scotland
Caledonia Social Care
Angus HSCP
Argyll & Bute
Blackwood HC
Bon Accord
Dumfries & Galloway
East Lothian HSCP
Edinburgh City Council
Enable
(NHS) Grampian
(NHS) Highland
Loretto/Wheatley Group
North Lanarkshire HSCP
Viewpoint
Life Enhancing Automation Ltd
Rapport CIC

6 Locations

Aberdeen,
Dumfries,
Inverness,
North Lanarkshire,
Stirling,
West Dunbartonshire

3 Living settings

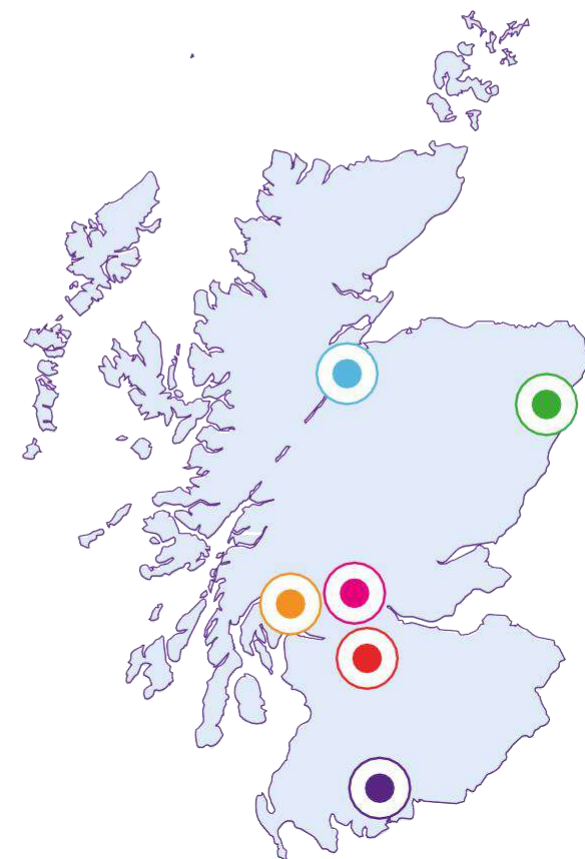
Independent at home
Supported housing
Acute Ward

4 Workshops

Glasgow and
Edinburgh

4 Groups

Dementia,
Falls and frailty,
Learning disability,
Overnight support





Gillian Fyfe, Head of Digital



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@alzscotdigital





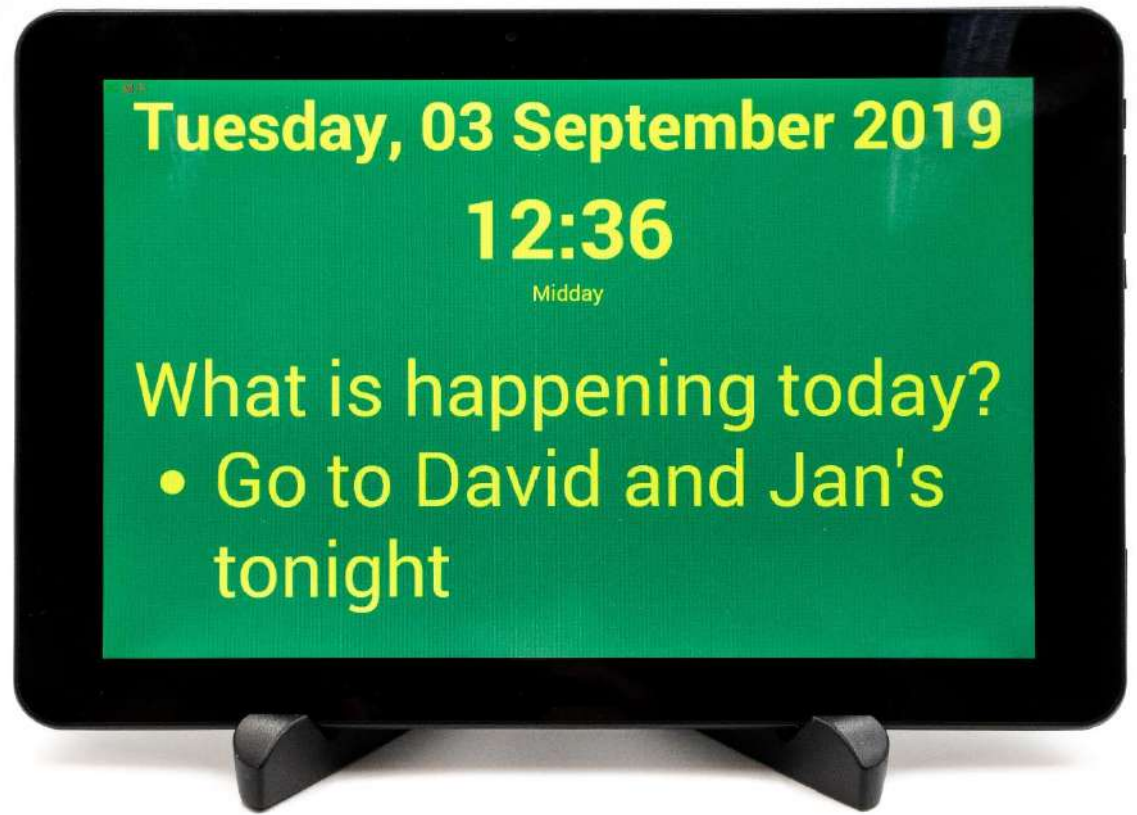
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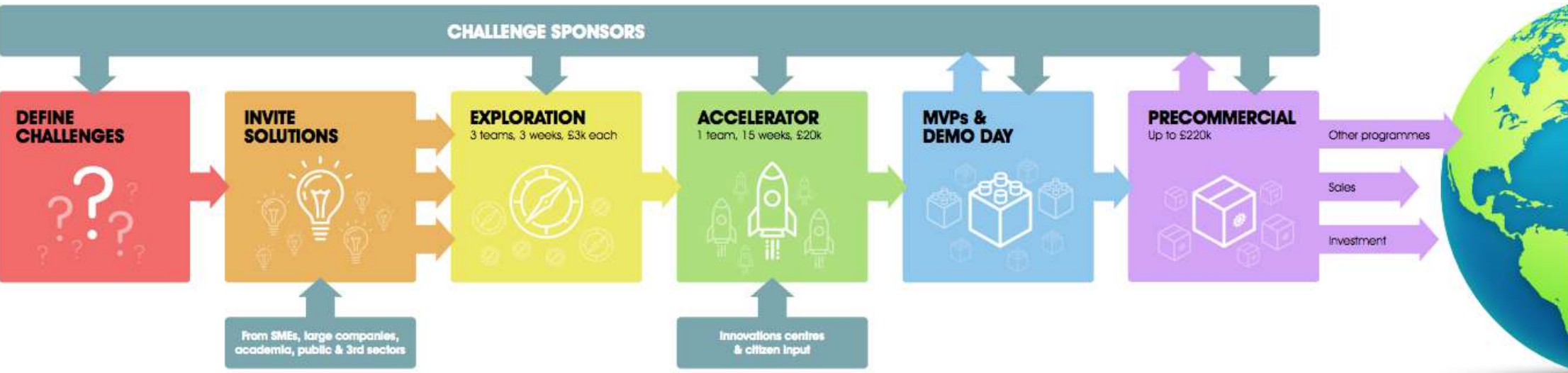


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ASTROSAT

ISCF Healthy Ageing

Trailblazer – Stage 1

About us...

- Astrosat is an earth observation (EO), remote sensing and downstream application services company
- Founded in 2011 by Steve Lee (CEO), a proven innovator and business builder with over 15 years' experience in SME financing and growth, engineering development and solutions consultancy
- Company's HQ located in Edinburgh, Scotland
- Employs 40 highly skilled scientists and engineers
- Astrosat is involved in technology rollout and operations in the UK, Central America and Asia.



IN A NUTSHELL!

WHAT WE DO

*Empower people
to solve global
problems
through
innovative space
solutions*

HOW

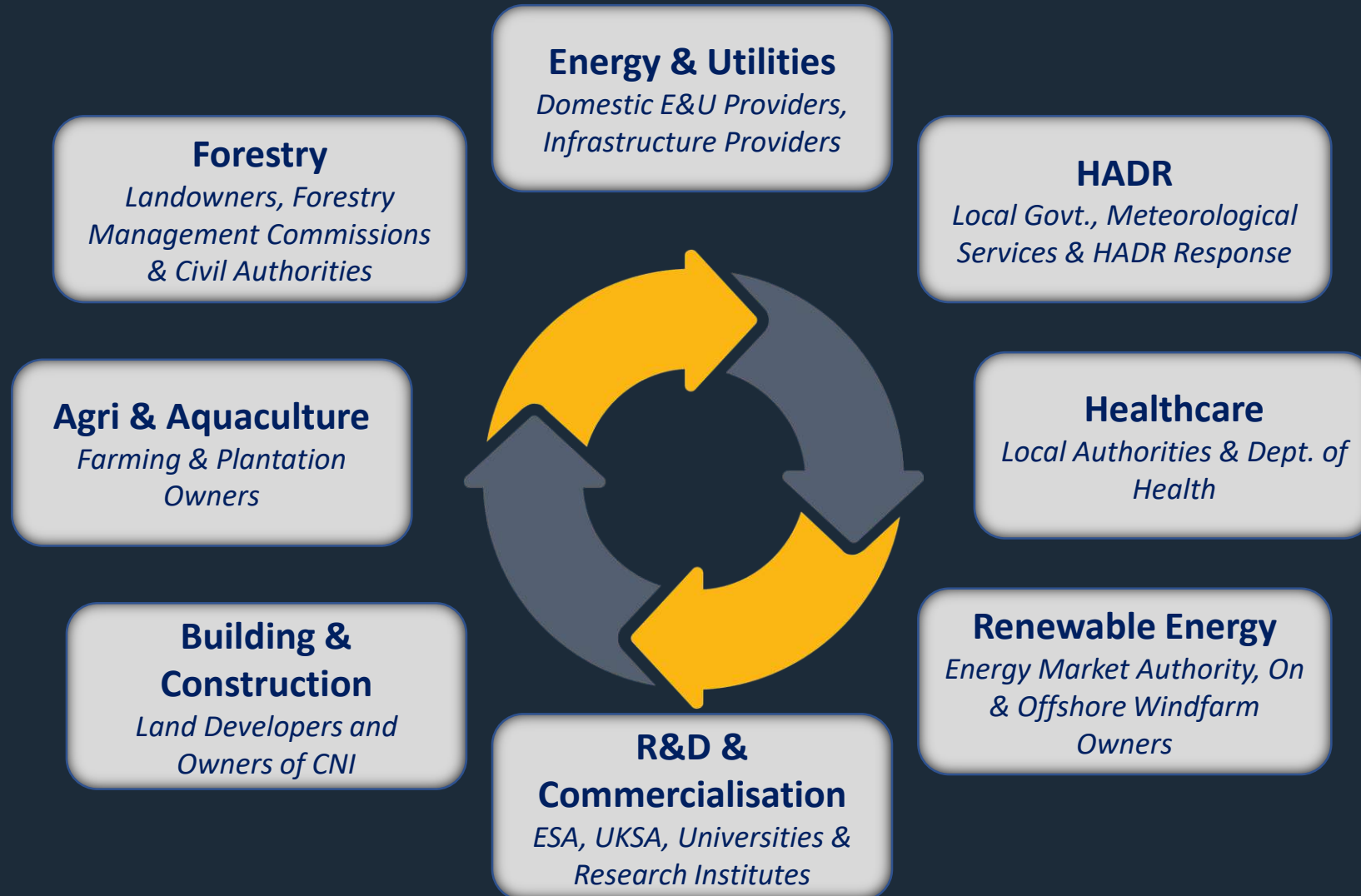
*By turning satellite-driven data
into easily understandable visuals
and combining it with data
gathered on Earth*

WHY

*To allow people to gain access
to vital information and
actionable intelligence for a
wide variety of challenges*



Our markets and customers



Astrosat's objective for the HAT challenge

Deliver a product that will allow the visualisation of data (from space and ground) in a manner that provides valuable insights on the state of homes (at community level) occupied by older adults (>55 years old) that are in need of adaptation and improvements to enable them to live healthier and in a safer environment without feeling lonely or isolated.



Theme 3

Designing for age-friendly homes

Theme 6

Supporting social connections

The problem statement

At a local level, the target market is relatively easy to identify. However, to make this commercially attractive, delivery at scale is necessary. This presents a challenge in that it is hard to identify a substantial quantity of people in a sufficiently small area to make delivery commercially viable.



ASTROSAT'S APPROACH

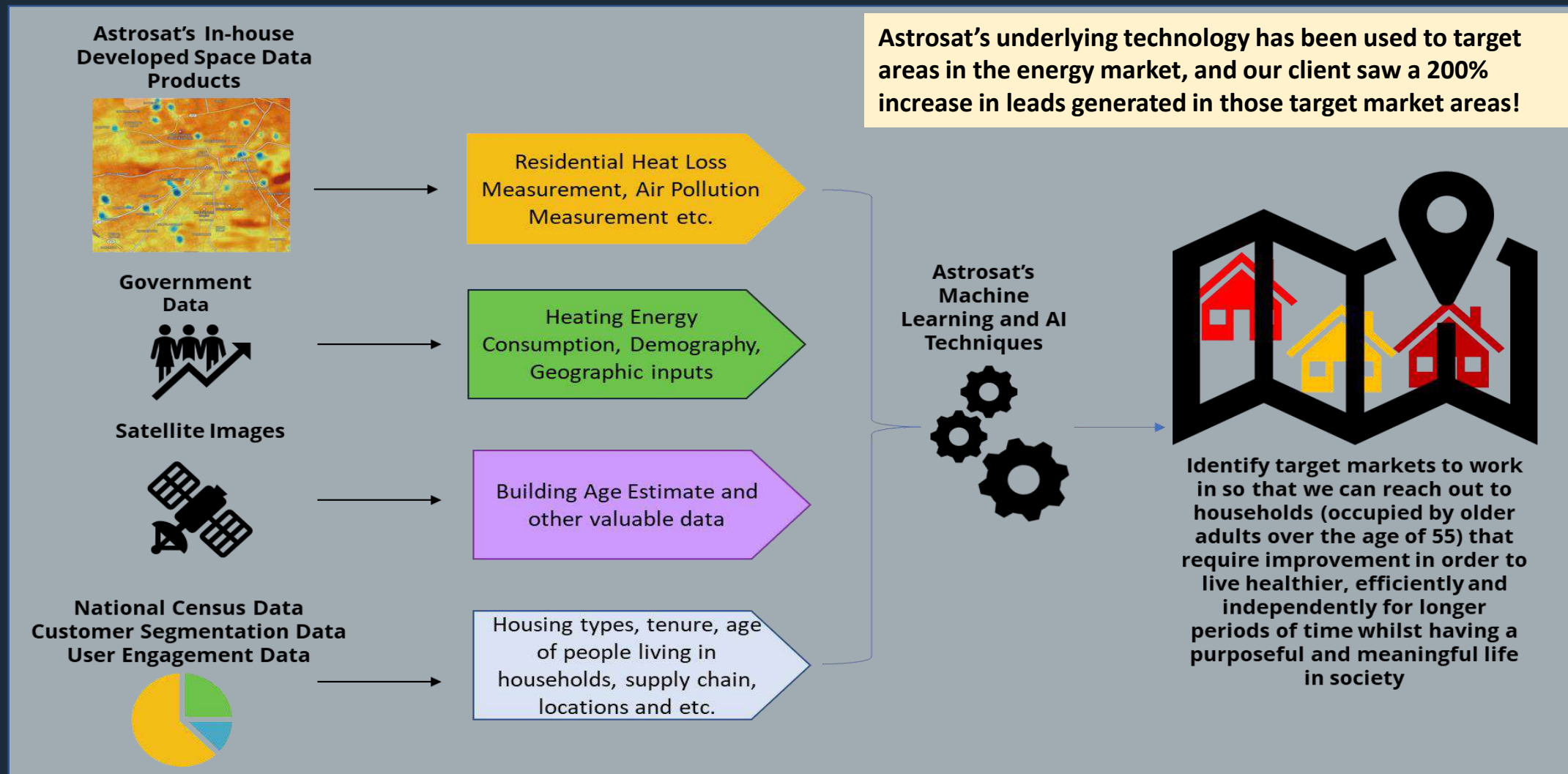
Astrosat will work in partnership with E.ON (who have access to 1 million households in the Midlands) to leverage their established relationships with Local Authorities and businesses capable of delivering home improvement measures.



HOW DO WE SCALE UP?

A target market in the Midlands will provide a reasonable measure which can be used as proxy to predict the likely rate of adoption across the UK. This in turn can be used to determine the rate of ROI for businesses involved in the project.

The underlying technology to our approach





How will we do that?

01



Leverage existing Astrosat technology to identify households (at highly localised level) occupied by people >55 years that are in need of improvement

02



Engage with prospective beneficiaries to identify their wants and needs, that will enable them to live healthier and in a safer environment without feeling lonely or isolated

03



Identify providers that deliver home improvement measures and technology that can be repurposed or readapted to meet requirements of the challenges

04



Undertake a focussed demonstrator/trial to implement our solution. Monitor and evaluate to assess how successful the campaign has been in achieving set goals. Identify other areas for scale-up.

What we are looking for...

Delivery partners for demonstrator / trial in Stage 2



The NHS

The home retail sector

Designers / manufacturers

Retirement community developers and operators

Academic and practitioner involvement from occupational therapy and other applied health disciplines

Local authorities and social housing providers

Incumbents / entrants in the financial services



We are
ASTROSAT
and we are
passionate
about what
we do!



Thank You

Contact: mike.payne@astrosat.net

Can Do Innovation Challenge Fund

SUPPORTING INNOVATION
IN THE PUBLIC SECTOR



Fund Benefits

Public Sector – Challenge Sponsor

- Explore creative solutions
- Reduced delivery costs
- Deliver improved service quality
- Reduced risk to developing innovative solutions
 - Up to 100% funding to find and develop solutions
 - Phased, competitive procurement process

Industry – Challenge Solver

- Access to crucial 1st customer
- Demonstrate technology with challenge sponsor
- Stepping stone to wider market exploitation
- 100% funding for R&D costs
- Retain the right to exploit IP

Results to Date

Public Sector (Sponsors)

- 4 calls
- 116 applications
- 52 organisations
- 23 projects approved
- 18 launched

Company (Solvers)

- 261 applications to first 12 projects
- 55 contracts awarded
- 58% Scottish winners.

Example Project Sponsors



New Funding Call Open

- Challenge Attributes Required

- Clear challenge identified, significant impact on public service/policy delivery if solved.
- Market assessment – no solution available and require innovation.
- Line of site to implementation and roll out - don't just want tech demo!
- Project management resource to lead project, Can Do will support.
- Significant market for the solution outside 1st customer.
- Strength in Scottish supply chain to compete and benefit.
- New call launching Nov 19, project spend next financial year from April 2020.
- Further info on Can Do ICF and other support at <https://www.openinnovation.scot/support-and-funding>
- Contact Team to discuss challenge ideas - candoicf@scotent.co.uk