UKRI Healthy Ageing Challenge

Our Story So Far

Helping people to remain active, productive, independent and socially connected for longer
Population ageing is poised to become one of the most significant social transformations of the twenty-first century, with implications for nearly all sectors of society.

United Nations, 2022
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Healthy Ageing Challenge
“As I age, my aim is to remain healthy, active and involved. I seek out challenging opportunities, and in giving back to society the benefits of my lived experience, I get a sense of value and fulfilment in return.”

Ros Wilson, Citizen Representative, Challenge Competition Panel
The Healthy Ageing Challenge at UK Research and Innovation (UKRI) is helping businesses, including social ventures, develop and deliver services and products which support people as they age, along with the innovative business models that will help them be adopted at scale. The projects we support with funding, research and knowledge exchange opportunities, will enable people to remain active, productive, independent and socially connected across generations for as long as possible.

Our Challenge

The Healthy Ageing Challenge at UKRI Healthy Ageing Challenge launched in 2019. It demonstrates the enormous momentum we are achieving. Our ambition is to transform the lives of millions within a decade. We are catalysing innovation across a broad range of themes - enabling people to remain active, productive, independent, and socially connected across the generations for longer.

Our innovation projects illustrate a complex landscape. Our five Trailblazers span the sectors of care, leisure, financial services, digital and energy. Our portfolio this year has almost doubled with nearly 60 new innovators joining the 60 already underway with their projects. This includes those successful through our Social Ventures Competition, our first foray into supporting valuable social ventures to scale-up.

Our ground-breaking research is generating insights from the arts, humanities, and social sciences to help businesses understand the opportunities emerging from healthy ageing. We are proud of our impact, but there is much more to do to reduce disparities in healthy life expectancy. We are grateful to our Advisory Group and Citizen Representatives, whose guidance is making that ambition a reality.

Navigating the pandemic has not been plain sailing. In 2020, the Challenge was fortunate to find ways to continue operating effectively. Our innovators deserve huge credit for their efforts to maintain momentum and find innovative ways to engage with their communities.

Ageing populations are today’s reality and tomorrow’s opportunity - set to transform all sectors of society. By continuing to build knowledge and innovation in this market, we can maximise that opportunity.

“Becoming a healthier nation is fundamental to growth, resilience, and to NHS and social care sustainability. A collaborative effort is needed across government, public sector, business communities and third sectors. The Healthy Ageing Challenge is playing an important part in catalysing these partnerships and enabling everyone to benefit from our ‘extra longevity’.”

The Lord Filkin CBE
All Parliamentary Group for Longevity

George MacGinnis
Healthy Ageing Challenge Director, UK Research & Innovation

Adding Life to Years

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A Global Imperative

We are living longer: An achievement to be celebrated...but we are not always ageing well

By 2050, a third of the UK population will be 60 years or over.

Yet, a 65-year-old today will live less than half their remaining years in good health.

What’s more, there is a clear inequality in how we age depending on our economic, social, and geographical circumstances, as well as our gender and ethnicity.

Healthy ageing matters to us all

Health is at the heart of a resilient society.

To build a thriving future, we will rely more – not less – on people as they age. As employees, as carers, and as a valuable social resource.

Creating tomorrow’s prosperity must start today

We need bold, cross-sector innovation, informed by lived experience, driven at pace, adopted at scale, and delivered now to meet future challenges.

Healthy Ageing Challenge
Promoting economic opportunity

By 2040, over-50’s will account for 63 pence in every pound of UK spending. Removing barriers to their spending such as poor design, lack of research and age discrimination could add 2% to UK GDP. That’s £47 billion⁴.

50 to 64 year olds make up one third of the working-age population⁵, but one million people over 50 are involuntarily unemployed⁶. This group is rich in skills and experience. Set against a record number of job vacancies in the UK (1.3 million in February 2022)⁷ there is a powerful case to find ways to use this valuable resource for everyone’s benefit.

“It is estimated that if the employment rate of people aged 50 to 64 matched that of those aged 35 to 49, it would add more than 5% to UK GDP.”
ONS, 2021³

Levelling up inequalities

People in the wealthiest parts of the country can expect to live more than five years longer than those in the poorest. That difference becomes even more stark when you look at healthy life expectancy. For people aged over 65, where you live matters. Living in the UK’s most prosperous areas adds, on average, 11.2 years of disability-free living for men, and 13.4 for women⁸.

The government aims to raise healthy life expectancy by five years by 2035 and level the gap geographically by 2030. A healthy ageing agenda must be at the heart of this commitment to levelling up.

“The future success and resilience of the UK will be determined in a large part by its ageing population. They are our workers, volunteers, taxpayers and carers.”
Government Office for Science, 2016⁴

Benefitting us all

The issue of how we age affects everyone.

Even before we reach later life ourselves we may well be benefitting from the 1.4 billion hours of voluntary work provided by people aged 55 to 74 every year⁹. For example 40% of over-50’s provide free childcare, allowing younger parents to work¹⁰.

Too often an ageing population is presented as a problem society must solve. What would happen if the opportunities a healthy ageing population brings for all of us were recognised right across society?

“If we could improve how we age so that we live for another year in better health, that is worth, in present value terms, around £5 trillion to the UK economy.”
Andrew J Scott, Professor of Economics and author of ‘The 100 Year Life’, 2022

Healthy Ageing Challenge
Rising to the Challenge

The Healthy Ageing Challenge is a bold strategy creating real and lasting change

UKRI’s Healthy Ageing Challenge is investing in a programme of UK-wide innovation and research. We are supporting economic growth and improved health by helping businesses, including social ventures, to develop new products and services that can be adopted at scale.

Drawing on the latest research into diverse lived experiences of ageing, the Challenge is designed to be agile and responsive to emerging opportunities and delivered with a focus on sustainable impact.

A radical perspective

Far from being a ‘problem’ to be solved, investing in healthy ageing creates the conditions for powerful economic, commercial, and social transformation. The UKRI Healthy Ageing Challenge is already harnessing that potential by:

- Connecting researchers and investors to businesses and social ventures to catalyse and scale up the emerging healthy ageing sector.
- Creating new opportunities for innovation by drawing in fresh funding from private investors and charities.
- Embedding user-centred design mechanisms, to encourage organisations to apply rigorous design principles to help them achieve greater market share for their products and services.
- Enhancing equality of opportunity across society by focusing on innovations designed to have impact.
- Making the UK a great place for the world to invest in by strengthening the ageing innovation ecosystem and offering a route to global markets.

“Improving healthy life expectancy and reducing health inequalities is a moral imperative and benefits us all – individuals, the economy and wider society.”

Heléna Herklots CBE, Older People’s Commissioner for Wales & Chair of the Healthy Ageing Challenge Advisory Group, 2022
Our investments align to **seven themes of healthy ageing**. These paint a holistic picture of what makes a healthy later life, and provide a framework for tackling market failures, stimulating innovation, and narrowing inequalities in healthy life expectancy.

- **Maintaining health at work**
  Helping people to keep working, by providing adaptations and workplace support, increases financial wellbeing and independence.

- **Creating healthy, active places**
  Easy access to outdoor places in any weather can help keep us active.

- **Sustaining physical activity**
  Regular exercise keeps many health conditions at bay as we get older.

- **Managing common complaints of ageing**
  Simple changes and clever innovations can help us manage common problems associated with ageing.

- **Design for age-friendly homes**
  Homes designed and adapted to make everyday life work best for older people keeps us living independently for longer.

- **Living well with cognitive impairment**
  Innovations and tailored support can improve quality of life for people with cognitive impairment and their carers, extending independent living.

- **Supporting social connections**
  Increasing the quantity and quality of social connectivity means better mental and physical health.

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**Healthy Ageing Challenge**
Our Progress so Far

So far, we have initiated projects worth over £100 million across research and innovation, to develop new services and products that will catalyse powerful change. There is so much opportunity for sustainability, scale and spread.
We are playing a significant part in levelling up health, economic opportunity and growth across the UK. As this map illustrates, Challenge funding is targeting change where it could make the biggest difference.

**A UK-wide Investment Reach**

Challenge funding relative to the average funding received by innovative businesses in the area.

£ Project funding provided by the Challenge to date

Scotland £15,024,333

Northern Ireland £3,329,306

North East £1,067,399

York & Humber £2,060,172

East Midlands £76,501

East of England £2,118,931

London £12,973,514

South East £4,579,639

South West £5,331,576

West Midlands £8,790,709

Wales £2,987,066

Healthy Ageing Challenge
An Agile Approach

Our investments span multiple industries, sectors and academic disciplines for maximum impact. Diverse experiences of ageing inform every stage of research, design and development.

The Challenge harnesses the very best of the UK’s creative talent, to develop new and near to market innovations with the potential to be adopted at scale.

Challenge investments to date

<table>
<thead>
<tr>
<th>Category</th>
<th>Funding Details</th>
<th>No. of investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRAILBLAZERS</td>
<td>Funding* £45million+ Flagship collaborative projects with businesses across the UK to create new services and products that deliver sustainable impact at scale.</td>
<td>7</td>
</tr>
<tr>
<td>DESIGNED FOR AGEING</td>
<td>Funding £27.7million Harnessing the best of UK design talent and people-led principles to fund near to market innovations that have potential to scale.</td>
<td>26</td>
</tr>
<tr>
<td>SOCIAL VENTURES</td>
<td>Funding (up to) £3million Supporting social ventures’ ambitions to expand their mission to help people age well.</td>
<td>31</td>
</tr>
<tr>
<td>COVID FAST RESPONSE</td>
<td>Funding £600,000 Agile, community-led responses to address COVID-19 related issues and fuel post-pandemic recovery.</td>
<td>9</td>
</tr>
<tr>
<td>INVESTMENT PARTNERSHIPS</td>
<td>Funding £31million UKRI and private investment joining forces to fund SMEs bringing inspiring products and services to market.</td>
<td>7 (so far)</td>
</tr>
<tr>
<td>RESEARCH (SOCIAL, BEHAVIOURAL AND DESIGN RESEARCH PROGRAMME)</td>
<td>Funding £12million Multi-disciplinary, evidence based research providing critical insights for business and social venture innovators.</td>
<td>8</td>
</tr>
<tr>
<td>CATALYST AWARDS</td>
<td>Funding £5million Igniting university based innovations with the potential to meet the needs of older people globally. Led by academic research teams.</td>
<td>33</td>
</tr>
<tr>
<td>COMMUNITY OF PRACTICE</td>
<td>Membership 1,146 Bringing together organisations inside and beyond the Challenge to build a community of shared learning, accelerated development and collaboration.</td>
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*Funding amounts are total project costs.
UKRI’s Healthy Ageing Challenge embraces a huge societal change. In the past investments in early-stage innovation have largely failed to scale. Our approach is different. We focus on innovations using sustainable business models with significant potential to scale and spread.

Service focused

Unlocking economic potential means aligning healthy ageing solutions to the needs and aspirations of end users. There has been significant investment in technology. What is needed now is a focus on developing service innovations combining technology at relatively high readiness with solutions at low business readiness. That is why we have a research focus on the social, behavioural and design aspects that are critical for successful service development.

Innovation pipeline

Healthy ageing embraces a broad landscape. The market is still immature, predominantly served by small and medium sized businesses. We are catalysing an innovation pipeline that emphasises scaling up new services while enabling continuous innovation at every stage of the development lifecycle.

Responsive approach

The Challenge’s Delivery Plan operates in a landscape with a high degree of uncertainty where impact can be complex to achieve. That requires a need to remain agile, indeed our Designed for Ageing and Social Venture projects incorporate learnings from our earlier competitions as well as reflecting evolving needs.

Sustainable business models

Unlocking the economic potential of ageing populations means focusing on what people want and are willing to pay for. Solutions have to be attractive and affordable, hence our focus on inclusive design. Solutions providers also need customers, including public services, ready and able to pay for their services.
From concept to scale-up, the Challenge is investing all around the UK across the entire innovation journey to develop new and near to market innovations.

Here are some of the stories that tell of the impact our investments are having...
Engaging in leisure activities has been shown to be highly beneficial to people as they age\(^5\). A growing body of evidence is demonstrating the positive effects of leisure pursuits on cognitive function, physical function, and mental health.

But, as we move into later life, accessing leisure pursuits can become more difficult. Enhancing leisure opportunities in later life not only promotes healthy ageing, it creates employment, supports the economy, and decreases reliance on health services.

“**We’re constantly striving to improve our knowledge and practices to support people living with dementia. By participating in ENLIVEN, we hope to establish new links and exchange knowledge with partner organisations.”**

Claire Leighton, Community Development Manager, Strawberry Hill House

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**Research**

**ENLIVEN**

Making outdoor activity accessible for people with later life dementia.

**Lead Partner:** University of Exeter

**Areas:** UK-wide

Staying physically active can help you remain independent by preventing loss of physical mobility. It may also slow age-related cognitive decline\(^6\). But for people ageing with dementia, there are many barriers to accessing nature outdoors.

ENLIVEN is a three-year project addressing those barriers. The research informs the co-design and evaluation of sustainable business initiatives. The work enhances the outdoor visitor economy’s capacity to ensure accessibility for people with cognitive impairment.

ENLIVEN also aids post-COVID-19 recovery by creating new market potential and competitive advantage for businesses across diverse UK locations.

People living with dementia, especially those living in deprived areas and from ethnic minorities, are informing the research, which uses creative, arts-based approaches to ensure meaningful engagement.

ENLIVEN supports a wide network of stakeholders in helping create more accessible, enjoyable and stimulating experiences. The strategy includes a Knowledge Exchange Forum and small grants to support the development and implementation of innovations.

Through a Community of Practice, a growing network of nearly 50 businesses are connecting and sharing experiences about becoming dementia-friendly.

\(^25\%\) of people aged 50 to 70 are physically inactive\(^7\)

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Healthy Ageing Challenge
**Social Venture**

**Active Families**

Supporting the health and wellbeing of vulnerable people as they age.

**Delivery Partner:**
Active Families North East

**Area:** Sunderland

Since the COVID-19 pandemic, the decline in physical activity amongst over-50’s has accelerated. This project will use activity - ‘nature’s medicine’ - to improve the health and wellbeing of vulnerable older people, many of whom are living in poverty.

A multitude of interventions will include a touring ‘well bean’ van, equipped with exercise equipment, seating, coffee and other refreshments. The aim is to make physical activity accessible and enjoyable in an innovative way.

Detailed evaluation will inform the replication of the model across the North East of England.

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**Research**

**Connecting Through Culture as we Age**

Digital innovations to tackle inequalities in arts and culture participation.

**Lead Partner:** University of Bristol

**Area:** Bristol

The pandemic has exacerbated loneliness in later life, increasing reliance on digital services. COVID-19 restrictions have also profoundly affected the arts and culture sector. This project tackles these issues simultaneously - meeting demand for digital innovations in the creative sector, whilst building audiences for the arts and increasing social connections as people age.

The project forges partnerships with people in later life, community organisations working with older disabled, socioeconomically and racially minoritised people, and the creative industries. It is researching the structural barriers to digital participation, how participating in art and culture promotes healthy ageing, and how to make digital cultural participation accessible and meaningful in later life.

This understanding will be used to design, develop and commercially evaluate inclusive digital innovations for people to embrace arts and culture as they age. The results will foster digital innovation across Bristol – identified as one of the key city regions outside London with international growth potential in the arts and culture sector.

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**Regular Physical Activity Reduces the Risk of Hip and Knee Osteoarthritis Pain by 6%, Depression by up to 30%, and Falls by 76%**

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**Healthy Ageing Challenge**
As of 2020, one third of UK workers were aged over 50, yet only 30% of women and 40% of men are still in work at 65.

Unemployment not only risks people’s independence, health, and happiness, it is a wasted resource. By supporting later life working, we embrace the rich, diverse benefits of later life experience, for the benefit of business, the economy, and society.

As part of this, Active Lancashire has joined forces with UCLan and Lancashire Mind to develop a workplace health screening tool, and is consulting with 400 businesses to develop early health interventions for employers and employees.

Active Lancashire’s physical and mental health screenings are especially aimed at SMEs, low-wage areas, ethnic minority employees and sectors with transient staff, to address inequalities in early interventions for healthy ageing.

Tackling age-related health problems early reduces demand on GP services. It also helps businesses meet their duty of care and retain a productive, happy workforce.

“Without doubt this has been a catalyst in joining staff together in exercise and healthier eating. Santé Group advises other employers on how to attract and retain staff...so taking on the Active Lancashire service has been great for us to practice what we preach and increase our employee focus on the importance of measuring our health.”

Paul Nugent, Chief Executive, Santé Group
Research

Healthier Working Lives

Promoting healthier working lives and ageing for care workers over 50.

Lead Partner: University of Edinburgh

Area: Edinburgh

Care sector workers face a perfect storm of low wages, insecure employment, and burnout. These problems worsen for care workers aged over 50.

This major research programme is bringing together digital, creative, academic, and commercial partners, along with care workers themselves. The project identifies ways to promote healthier working lives and healthier ageing for older care workers – developing their careers, enhancing user continuity and promoting everyone’s wellbeing.

The programme aims to transform aspects of the care sector through co-production with care workers, stimulating entrepreneurship to generate innovative products and services that will improve recruitment and retention amongst older care workers, as well as enhancing their health and wellbeing.

Trailblazer

Tribe Project

Addressing inequalities in local and national care and community support.

Lead Partner: Bronze Software Labs

Areas: UK-wide

Access to later life care is significantly affected by where we live. Bronze Software Labs spotted an opportunity to address the problem, after the company’s CEO experienced the disparity first-hand through a family member.

The project aims to eliminate care inequalities in later life care. An artificial intelligence engine builds a picture of regional care landscapes using multiple data sources – including local authorities and the NHS. Local councils can then map present and future care needs against available services, identifying gaps and then training new carers – including volunteers.

The Tribe Project is also enabling the upskilling and accreditation of new paid and voluntary carers with the aim of creating up to 750 micro-enterprises and stimulating local, flexible care markets. People can commission exactly the services they need with a council-run personal budget, reducing council costs, streamlining personalised care services, levelling up regional inequalities in care options, and creating new, better paid care jobs. The model is currently being tested in multiple areas of England.

ONLY 30% OF WOMEN AND 40% OF MEN ARE STILL IN WORK BY THE AGE OF 65

“Our work with key stakeholders has reaffirmed that there is a great demand for our platform, and that it will have a significant impact on thousands of people’s lives in the future.”

James Brinkler, Director of Bronze Software Labs (Tribe Lead Partner)
OUR PROJECTS

Transforming the Future of Independent Living

In homes headed by someone aged 55 and over, there are 1.6 million owner-occupied, non-decent households\(^2^2\).

We are supporting innovations that showcase the best of UK creativity and will deliver aspirational housing stock for the future. We are working with partners to develop close to market solutions that enable people to remain safe and independent in their own home for longer.

Trailblazer Homes For Living

Whole-house solutions for safe, energy efficient, independent living.

Partners: E.ON, Newcastle University

Area: Midlands

Led by E.ON, this Trailblazer project harnesses the UK’s renowned design talent to create warmer, safer homes, enabling older people to stay independent for longer.

Research tells us that older people can be disproportionately affected by accidents in the home and fuel poverty. They would benefit from warmer, more efficient and safer homes but they also want discreet, modern, aspirational and affordable adaptations that keep their home feeling like a home.

Homes for Living builds on E.ON’s participation in the Warm Homes Fund. The programme moves beyond energy measures to offer innovative home improvement adaptations that enable older people to live independently and safely for as long as possible in their own homes.

Innovative design modifications - such as induction hobs that switch off automatically when not in use and shower fixtures that double up as handrails – achieve all of these goals.

The project initially focuses on where accidents are most likely: entrances, kitchens, and bathrooms. It creates smart, inter-generational homes with aspiration, dignity, and inclusivity at their heart.

“My friend came and said she loved my plant pot holder, I had to tell her it was also a handrail. Now she uses it when she comes over!”

Customer, E.ON Homes for Living

2 MILLION+ OLDER PEOPLE LIVE IN NON-DECENT HOUSING IN ENGLAND\(^2^3\)
complaints of ageing, and supporting social connections.

Community co-design is at the heart of the work, for example when developing a value-exchange model which encourages and rewards participation in a neighbourhood, or in the creation of the Blackwood House and Design Guide. A blueprint developed for affordable, connected and accessible homes, which people can adapt as they age to enable them to continue living in them independently. Sixty six of these innovative homes are currently being built in Charleston.

Inside these homes, AI technology is being put to novel use in an experimental intelligent system that flags up unusual activity that could indicate a need for help, for example a kettle left unused all morning.

All are examples of the thoughtful innovative design that is reimagining the future of housing and homes for longer, healthy, independent living.

“The Peoplehood project has been co-designed and co-created to rebalance inequalities, and empower and encourage and reward people to take an active role in their ageing journey.”

Colin Foskett, Head of Innovation at Blackwood Homes and Care

Healthy Homes, Healthy Lives involves a new financing model that enables homeowners from across the socio-economic spectrum to access lending based on the value of their homes after improvements, with LRS taking on the design and construction risks.

Homeowners are involved in a co-design process. The project supports them through daunting renovations by entering into the works contract with contractors and standing between the homeowner and contractor to ensure quality and peace of mind. It also provides access to affordable connectivity, assistive technology, and energy efficiency solutions.

Rolling out across London and Brighton and with the potential to scale right across the UK, LRS are on their way to meeting their goal of helping at least 250 homeowners within a three year period.
Creating a Thriving Future for Health and Social Care

3.5 million older people in the UK need support to enjoy the later life they want. By 2040, this will rise to 5.9 million. Physical activity, social connectivity, and the ability to live independently all have a profound impact on ageing healthily with an acceptable quality of life.

By shaping the future of the social care sector, we are supporting healthy ageing and generating economic growth through commercial innovations and new, exciting career opportunities.

Research

Generating Older Active Lives Digitally (GOALD)

Unlocking digital innovation to improve older peoples’ wellbeing.

Partners: University of Stirling and University of Plymouth

Areas: Scotland, South-West England

36% of people aged 65 and over in the UK live alone. Research shows that loneliness increases incidences of accidents, poor health, GP visits and early care home admission.

GOALD is a three-year research programme exploring how older people can engage with physical activity through digital means. It is based on two existing initiatives; intergenerational physical activity and sports-based intergenerational reminiscence. Older and younger people from diverse backgrounds are actively involved in research, testing and feedback.

GOALD explores older people’s barriers to digital connectivity. It assesses the potential impact of digitally delivered health promotion tools. It documents the possible problems, opportunities, and benefits to inform business, not for profit and community partners as well as policy makers.

Currently, the programme is recruiting participants for its intergenerational co-production groups, which will explore the latest in digital technology. Products include a virtual reality headset and treadmill which will be used to explore places of cultural significance such as Powderham Castle and Polperro in Cornwall, recreated in stunning VR.

Healthy Ageing Challenge
Investor Partnership

Reinventing the Future of Home Care

Creating a new care model for older people to thrive.

**Investment Partner:** Northstar Ventures

**Delivery Partner:** BelleVie

**Areas:** Thames Valley, North East

Most older people want to remain in their own homes for as long as possible. Many require some degree of care to do so.

But the ‘time and task’ model of home care is broken. Older people feel they are a ‘tick box’. Staff are demotivated. Even prior to the pandemic, 38% of care workers were leaving the profession annually²⁶.

BelleVie Care is pioneering an alternative solution, enabling older people to thrive while creating attractive, meaningful careers. Self-managing teams of Wellbeing Support Workers have the autonomy and knowledge to personalise and optimise care strategies. BelleVie has so far built eight teams, been rated 9.6/10 by clients and has achieved an impressive employee Net Promoter Score (eNPS) of 62%.

This two-year investment programme scales up the concept. It will build a whole operating system to underpin a network of these teams, support them with digital tools, and research how best to measure outcomes relevant to each individual client.

Support Worker & BelleVie user

“BelleVie is an overall amazing company. It’s all self-managed so you work as a team to do your own rota. You can work around your life and commitments. This means there is an amazing work-life balance.”

Polypharmacy is the use of multiple prescribed medications simultaneously. An estimated 2 million older UK people take 7 or more medications²⁷.

Adverse side effects increase the risk of falls, cognitive impairment and physical harm. The collective cost of such drug reactions is £400 to £530 million annually.

This project assesses the health benefits of pharmacogenetics (the study of how genes affect an individual’s response to drugs). It will inform a scalable Clinical Decision Support platform, alerting healthcare professionals to situations where a prescription revision might be beneficial. And it will empirically assess the benefit to patients over time.
Putting Later Life Experiences Centre Stage

“Some people are excluded from the simplest and most basic of everyday experiences. Why? This is because the act of designing has given insufficient consideration to their level of physical ability or cognitive difference or cultural background or economic circumstance.”

Jeremy Myserson, Helen Hamlyn Chair of Design at the Royal College of Art

Inclusive design

The Challenge advocates inclusive design, an approach aimed at innovating the world around us for the greatest benefit for the maximum number of people, including those on the margins. This makes commercial sense by bringing in broader markets and making attractive designs that step away from ‘medicalised’ products that stigmatise older age.

Inclusive design principles run right through the programme, from research approaches, through to the knowledge shared via our Community of Practice and in our focus on impact investment where social ventures are making a difference at a grassroots level.

Nothing about me without me

Inclusivity means understanding first-hand the diverse lived experiences of ageing. One measure making a difference is our commitment to citizen representation. The Healthy Ageing Challenge incorporates citizen views in its decision making and is held accountable for this by UKRI governance and through an external Advisory Group.

“I have had the privilege of representing end users to raise awareness of users’ feedback on new products and systems designed to aid healthy ageing. Importantly, this feedback was listened to, and considered, by members of the panel - and the Healthy Ageing Challenge team provided excellent support.”

Ros Wilson, Citizen Representative, Designed for Ageing Selection Panel and member of VOICE

“By taking part in interviews for UKRI’s Healthy Ageing Challenge, I was pleasantly surprised to find that contributions made by members of the public were seriously considered in deciding on the best applications. I felt like an equal part of a team which gave funding to the best projects with excellent and deliverable ideas.”

Sead Masic, Citizen Representative, Social Ventures Project Selection Panel and member of VOICE

Healthy Ageing Challenge
Catalysing the Sector

When the Healthy Ageing Challenge was conceived, healthy ageing was not a recognised industry sector or category. This is changing. The Challenge is helping shape a sector defined by a social purpose working across all parts of society and influenced by a range of industries. It is an incredibly diverse sector as reflected in our five ‘Trailblazer’ projects with each led from different fields: Care, leisure, digital, financial services and utilities.

Connecting innovators

We are supporting and creating opportunities to learn and share insights right across the healthy ageing ecosystem through our Community of Practice. This is driving collaboration and knowledge sharing amongst our investments and also beyond in the wider sector.

Supporting a growing ecosystem

This Challenge is acting as a catalyst for real change. Since the Challenge was launched we have supported and influenced the many ways the healthy ageing community has grown:

- National Innovation Centre for Ageing opened its doors.
- Design Age Institute founded - a collaboration led by the Royal College of Art.
- Business For Health coalition established by leading businesses committed to reducing health inequalities and improving healthy life expectancy.
- British Society of Gerontology formed a special interest group on Ageing, Business and Society, bringing the ageing research and business communities closer together.

Drawing on a broad research base

There is a growing academic community providing a broad-based foundation of research across the UK with over 40 centres specialising in aspects of healthy ageing. These are now supported by 11 new research networks connecting 28 universities aimed at transforming ageing research in the UK.

“It’s a privilege to contribute to the Challenge’s progressive approach to delivering impact, by directing research to provide the strong evidence base needed for businesses to develop products and services that can transform the lives of older people and society.”

Judith Phillips, Professor of Gerontology and Deputy Principal (Research) at the University of Stirling
Projects

Trailblazers
Flagship collaborative projects with businesses across the UK to create new services and products with sustainable impact at scale.

Active Lancashire: Business Health Matters
Blackwood Homes & Care: Peoplehood
Bronze Software Labs Ltd: Tribe Project
E.ON: Homes for living
Greater Manchester Combined Authority: Connected Communities for Healthy Ageing Project
London Rebuilding Society: Healthy Homes, Healthy Lives
Urban Splash Ltd: Waterside Meadow

Investment Partnerships
UKRI and private investment joining forces to fund SMEs bringing inspiring products and services to market.

BelleVie: Reinventing the future of homecare
Brain in Hand: Support for autistic adults
Circadia: ElderEye
Congenica: Healthy Ageing Pharmacogenetics and Polypharmacy/HAPPY
Manus Neurodynamic: Digital non-invasive Alzheimer’s test
onHand: Uber for Volunteering
XR Therapeutics: Immersive tech to treat ageing population phobias

Social, Behavioural and Design Research
Multi-disciplinary, evidence based research providing critical insights for innovators in business and social ventures.

Connecting Through Culture as we Age (University of Bristol)
Designing Homes for Healthy Cognitive Ageing (University of Stirling)
ENLIVEN (University of Exeter)
Generating Older Active Lives Digitally/GOALD (University of Stirling)
Healthier Working Lives (University of Edinburgh)
SHAW/Supporting Healthy Ageing at Work (University of Edinburgh)
SPACE (Queens University, Belfast)

Catalyst Awards
A career pipeline from military service to rewarding civilian work for over fifties (University of Hull)
Active ageing environments: Embedding physical activity around the place we live (Sheffield Hallam University)
Academic research teams developing innovations with the potential for commercialisation.
AI-enabled portable incontinence management device (University of Edinburgh)
Addressing the change in memory: Herbal self-care in menopause (Northumbria University)
Co-developing a meaningful digital platform to enhance mobility of community-dwelling older adults (University of Sussex)
Co-developing a peer-to-peer mentorship program with people living with dementia (Leeds Beckett University)
Continuous monitoring of vascular age (University of Surrey)
Counselling people with dementia: An accessible, community-based model (University of Edinburgh)
Developing a digital peer support platform for carers of older adults (London School of Economics & Political Science)
Development of an affordable and intelligent robotic knee device for older people with knee osteoarthritis (University of Leeds)
Development of the WESTERN plan for promoting active ageing in care and retirement residencies (University of Bath)
Dynamic muscle function monitoring (Newcastle University)
Elderly drivers’ behaviour and fitness to drive (University of Sheffield)
Evaluating accountability platforms for care (University of East Anglia)
Evaluating the Lifecurve approach and developing an app for rehabilitation and healthy living (University of Strathclyde)
Exploring how to use mixed reality and telepresence technology to tackle loneliness and social isolation (Cardiff University)
Flexible living to age in place (Northumbria University)
Improving quality of life for older autistic people (University of Glasgow)
Integrated tech to support ageing with diabetes (University of Sheffield)
Interaction, dementia and engagement in arts for lifelong learning/IDEAL (Newcastle University)
It takes a community to prevent a fall (Bournemouth University)
Leveraging digital phenotyping to support patients with vision loss (University College London)
Lower limb loading during sports movements (University of Exeter)
Making reading real (University College London)
Muscle strength as a ‘building block’ for healthy ageing women (Sheffield Hallam University)
Online exercise pathway (Oxford University Hospitals NHS Trust)
Physical activity, social connectivity and dementia (University of Hertfordshire)
Precision medicine in the home for real-time zero-effort monitoring of health (Imperial College London)
Preventing avoidable blindness through smart home-monitoring of vision (City, University of London)
Re-dressing ageism in fashion (University of Kent)
Reviewing physical activity in older adulthood (University of Bath)
Storytelling games for social connection and reminiscing by older people (University of Surrey)
The gut-sleep-brain axis: Targeting gut microbiota and sleep quality to promote healthy ageing (University of East Anglia)

COVID Fast Response Awards
Agile, community-led response to address COVID-19 related issues and fuel post-pandemic recovery.
Beonhand: Uber for volunteering
Bronze Software Labs: Tribe Project
Future Public: Design Age Accelerator
Karely: Turning communities into caregivers and first responders
Local Treasures: Kick starting local economies
Mantralink Limited: Natural language processing-based knowledge base and chatbot for people with dementia and caregivers
Mobilise Care: Online support for unpaid carers
Physiomedics™️: PhysioWizard®️
Unforgettable Experiences: Arts, Culture & Heritage Adventures
**Social Ventures**
Supporting social ventures’ ambitions to expand their mission to help people age well.

**Active Care Homes:** Active care homes through the arts

**Active Families:** Providing physical activity interventions to improve the health and lives of vulnerable older people

**AE Partners Ltd PAW (Personal Alarm Watch):** Developing an emergency support solution which predicts and prevents health problems using machine learning

**Age UK Blackburn with Darwen:** Designing and delivering a new service for the socially isolated who also struggle with technology

**Appt Health:** Preventive healthcare for managing the common complaints of ageing

**Book of You:** Connecting our communities, sharing our memories

**Bron Afon Housing:** Exploring the feasibility of introducing a senior co-housing model to meet the future needs of older people

**BuddyHub:** Tackling the loneliness epidemic amongst older people

**Cricketqube:** Making cricket accessible for everyone, anytime and anywhere

**Damn It! Dance It:** Shaping creative, movement workshops for and by older people

**Demential Compass:** Providing support for people living with cognitive issues, their carers, and families

**Disabled Living:** Providing support, advice and information about assistive technology to help achieve independent living

**Golf in Society:** Introducing the social, health and wellbeing benefits of golf to our ageing population

**Good Boost:** AI-personalised exercise programmes for older adults living with disabilities and musculoskeletal disorders

**Hearing Partners:** Programme for improving hearing and conversation to enhance social inclusion and productive working lives

**INCH Architecture:** Developing ambient assistive technology to help social housing landlords manage their assets and empower their customers to live independently

**InCommon:** Creating connected, inclusive and age-friendly communities

**Local Treasures:** Enabling older workers to maintain work in later life

**Manchester Camerata, Music in Mind:** Transforming the lives of those living with dementia, their carers and families with music, using digital technology

**MediproSpectuSAI:** Co-designing an AI-based television-enabled application (TEA) to increase social connectivity and address loneliness

**Memory Matters:** Using engaging interactive treatments to help people living with dementia and their loved ones thrive

**Micare:** Using AI, apps and health therapeutics to tailor-make treatment, management and prevention of diabetes

**MorphFit Gentle Movement Project Ltd:** Delivering gentle exercise programme with lifestyle and wellbeing interventions

**OMPH:** Platform which gives older adults more independence and the ability to manage their individual wellbeing

**Rural Design:** Low cost, energy efficient, modular terraced housing for older residents of rural areas

**Shine Public Health:** Using an innovative technological platform to increase levels of physical activity and quality of life

**Syrona:** Creating digital therapeutics (DTx) solutions to support people experiencing menopause in the workplace

**Theory of 30:** Connecting people with local physical activity opportunities to improve health and wellbeing

**Transitions Service:** Developing an app based ‘transition service’ to help people prepare for and better navigate significant transitions in later life

**Unforgettable Experiences:** Arts, culture and heritage adventures. Interactive therapeutic sessions online to improve cognitive functioning and increase social connectivity to enhance wellbeing

**WeWalk:** Developing a smartphone app to provide an accessible navigation and exploration solution for visually impaired users

**Designed for Ageing**

**Accenture:** AI enabled smart home assistant solution to combat social isolation and loneliness

**Amba Health & Care:** Self-care service covering health, wellbeing, safety and independence

**Better Home Care Services:** Complete care companion utilising gamification, machine learning and automation

**Connected Health:** Remote incontinence care innovation

**Connected Health Systems:** New model of self-care in medicines management

**Cross Digital:** Platform to ensure older adults get the care, products and services they need

**Eargym:** App to improve personal confidence and hearing capability

**Good Boost Wellbeing:** Transforming gyms into community MSK hubs

**Health Companion:** AI based platform, to help BAME communities self-manage their long-term conditions

**Holly Health:** Digital coaching service to support the attainment of personalised healthy ageing goals

**Koalaa:** Soft-orthotics service to help the over 50’s adapt to upper-limb impairment

**KYMIRA**: Maximising Inclusiveness in Sports through Female-centric Innovation and Technology/MISTFT

**Music In Mind Remote:** Digital delivery of music activities to people living with dementia

**MySense:** Connected care solution with predictive insight

**PhysiMedics™:** Technology, tools and services to improve MSK condition management

**POSE AR & HeroRehab:** Improving preventative care, functional fitness and mobility

**Shapemaster:** Assisted Gamified Exercise For All/AGE4A

**Sitekit:** Improving the efficiency of health and care systems

**SmpliCare:** Self-care platform to predict, prevent, and manage common health issues

**Tactuum:** Local information system for Scotland about services, groups, activities and resources

**Taking Care:** Providing care services technology in an effective, cost efficient way

**Tech In Care:** Hospital to Home; an extension into intermediate care

**Tendertec & Fitbees:** Home sensors and wearable tech to motivate and support physical activity

**Vira Health & Stella:** Managing Menopause for Healthy Ageing

**VRGO & Fyt:** Using AI to improve sedentary workforce ageing

**WeWALK:** Self-calibrating navigation system to help with visual impairment
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Learn more about the Challenge and the projects we fund by:

Visiting our page: www.UKRI.org

Joining us on LinkedIn at: UKRI Healthy Ageing Challenge

Following us on Twitter: @HealthyAgeingUK

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