

Towards 21st century independent living

Moderator

Jemma Mouland, senior innovation and change manager, Centre for Ageing Better

Eto

Speakers

Kerri Robinson, chief operating officer, AlcoveCarly Dickson, design researcher, RAWE / MIT AgeLabGeorge MacGinnis, Healthy Ageing Challenge director, UK Research andInnovation

Gwyn Roberts, head of housing and policy, BRE



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George MacGinnis Healthy Ageing Challenge Director UK Research & Innovation Homes UK, London, 28th November 2019

How do you think about ageing?



Ageing Society



- Across the EU, there were 199 million people aged 50+ who consumed €3.7 trillion of goods and services in 2015.
- Homeowners over 50 hold £3 of ever £4 in housing value, which amounts to £2.1 Trillion, of which just 7% is still borrowed
- If ranked among sovereign nations, the Silver Economy would be the third largest economy in the world, behind only the USA and China

People will enjoy five more years of healthy, independent life by 2035, whilst narrowing the gap between the experience of the richest and poorest (measured through improvements in disability-free life expectancy)





The Healthy Ageing Vision

To enable businesses, including social enterprises, to develop and deliver products, services and business models that will be adopted at scale which support people as they age. This will allow people to remain active, productive, independent and socially connected across generations for as long as possible.





* The Challenge themes, developed by the Centre for Ageing Better, offer the greatest opportunities to tackle market failures and stimulate innovation









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RADICALLY ACCESSIBLE WILDLY ENGAGING

PLACES TO LIVE







Carly Dickson RAWE Project / MIT AgeLab





HOMES UK 2019 — Towards 21st Century Independent Living

DESIGN FOR OUR FUTURE SELVES









TOWARDS 21ST CENTURY INDEPENDENT LIVING

TOWARDS your future

we should have higher expectations for our environment

we should have higher expectations for ourselves





Sign of the Times campaign / UK

INCLUSIVE DESIGN × HOUSING + CARE





WHAT NEW IDEAS AND TECHNOLOGIES ARE HELPING PEOPLE TO LIVE BETTER AND LONGER IN THEIR HOME?

how is our current environment stopping people from living better and longer?

20% of homes failed the Decent Homes Standard



only 7% of homes have the four basic accessibility features

source: English Housing Survey



1/3 of people in their late 80s have difficulty undertaking 5 or more basic daily activities

source: Age UK

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falls in the home cost the NHS £435 million

source: Public Health England

tech may be able to detect a fall

first, let's design our spaces to prevent falls

how can we design our new and existing homes to enable and empower us?

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5% of people over 65 live in specialist housing

source: House of Commons 2018



C3

5% of people over 65 live in specialist housing 95% of people over 65 live in mainstream housing

source: House of Commons 2018



we need physical access



what about cognitive + sensory access?



what about social access?






Access Trifecta x Maslow's Hierarchy of Needs



84% of people 70+ feel they strongly belong to their neighbourhood

source: The State of Ageing in 2019 / Centre for Ageing Better





Access Trifecta across all scales



1:20 - 30cm over 6m



1:20 - 30cm over 6m

83% of the public are concerned about quality of life in older age

83% of the public are concerned about quality of life in older age but

85% of the general population admit to not planning for later life

source: Anchor Hanover

DIVERSE DESIRABLE CHOICES



Dilys / Dorothy



Motionspot bathroom / London





Chobham Manor / PRP



Cockaigne Houses / The Ryde / PRP



Barbican Centre / Chamberlin, Powell and Bon



Barbican Centre / Chamberlin, Powell and Bon



Superkilen / SUPER FLEX + BIG

HOW CAN WE DESIGN MORE DESIRABLE FUTURE-PROOFED HOMES?







needs + wants

supportive + empowering

radically accessible + wildly engaging

THANKS!



let's chat: Carly / cdickson@mit.edu

raweproject.com



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2030

HOME OF 2030

Gwyn Roberts,

Head of Housing and Policy, BRE

ABOUT HOME OF 2030

Home of 2030 is a design and delivery competition created to drive innovation in the provision of affordable, efficient and healthy green homes for all.











BRE Raising standards in housing and the built environment since 1921











BRE AND HOUSING



SOME POLICY CONTEXT TO HOME OF 2030

Health and Ageing

- NHS Long Term Plan
- Healthy New Towns Guidance

Green Homes

- Clean Growth Strategy
- Future Homes Standard consultation
- DEFRA 20 year plan and Environment Bill

Holistic

- NPPF and Design Guide
- Home England Strategy
- Green Finance





THE CHALLENGE





We spend 75% of our lives indoors, homes are vital to our health and economy

We need to cut energy use in new buildings by 50% by 2050



65 years and above is the fastest growing age group in our society



STARTING NOW;

- Innovation Challenge now live (until 13th Dec)
- Young Person's Design Challenge (until 28th Feb)
- Design Charette (now!)




INNOVATION CHALLENGE

The Innovation Challenge is an opportunity for innovators to participate in Home of 2030 and secure support for further development. It is open to businesses with systems or products which will address one or more of four themes.

- Inclusive Living (ageing population)
- Building Performance (low environmental impact)
- Smart & Digital Technologies
- Scalability

Winning entries in each theme will be awarded a prize of up to £10,000. Entrants to the Innovation Challenge who meet the challenge criteria will be included in a directory of market ready innovations. The directory will be provided to the entrants for the two-phase Design and Delivery competition in 2020.



YOUNG PERSON'S DESIGN CHALLENGE

We are asking young people to **let their imaginations run free** by designing an innovative and inspirational green home that meets the changing needs of future generations.

The challenge is open to young people aged 11 to 25, including those in Further and Higher Education.





► HOME OF

GET INVOLVED

• Visit Stand H671

 Register your Interest on the Home of 2030 website – www.homeof2030.com

• Follow us on Twitter @2030home and join the conversation #Homeof2030







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Because ageing should be a lifestyle choice...



Market-leading AI-driven IoT software ecosystem keeping vulnerable people safer in their own homes

#21stCenturyTelecare #CareTechNotTelecare #GrowingOldDisgracefully

The Old World - Telecare

Because the underlying *principle* of telecare is spot on, but it's execution isn't.

How do you keep people living independently for as long as possible and avoiding institutionalised care by connecting devices and serving up alarms to a monitoring centre?









The New World – Smart Care

Because we've given Smart home a use case. Because we are the Assistive Technology Alexa Pioneers. Connected smart in-home devices in one platform, software led data aggregation, AI led data and insight, bringing in the families - thus leading to the ultimate in personalisation.



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Smart Care via Portal – In the Palm of a Carer or Monitoring Centre



Plus Smart Care Via Voice – Carer Check In & Repairs, Help

alcove

Mr W's Story

Mr W lives alone and suffers from frequent falls. Despite having a telecare pendant, he often forgets to press it or simply doesn't want to bother anyone. As a result, he often waits for someone to find him after a fall rather than calling for help. With one incident ending in a fractured wrist, this is a major point of concern.

Although they try to visit as frequently as possible, his son and daughter worry constantly about their dad.

- Motion and door sensors installed throughout Mr W's home provide a layer of reassurance and allow his family to check-in on him at any time.
- Having the video carephone has also given Mr W the ability to call his family quickly and easily, and an Alexa allows him to listen to music and explore his interest.
- Overall, the system has had a positive impact for Mr W and his family, giving them peace of mind and reassurance when they are not with their dad.



Quality of life

- ✓ Greater independence
- ✓ Increased peace of mind
- Enhanced safeguarding / sense of safety

Quote from Mr W's son:

"The system is proving very useful in tracking what he's up to, even just viewing activity when

he's not answering the phone. I can see that he's upstairs, so I wait until he returns to the kitchen

or lounge and then call him. And just to ensure that he's up and about. Also, he was supposed to

be out yesterday afternoon, but I noticed constant movement, so I called him and established

that my sister in law had changed the plans, so he was still at home."

Mr & Mrs T's Story

Mr T suffers from dementia. They were recently offered a six-week ECL Care and Support Service which they decided to refuse. At this time, Mrs T feels she can manage her husband's needs and would prefer not to have carers coming into the home.

Due to his condition, Mr T frequently becomes active in the early hours of the morning. On occasions, his wife has woken in the night to find that he has urinated on the bathroom floor or gotten fully dressed to go out. As a result, they both suffer from poor quality of sleep, leading to exhaustion and stress.

- So Mrs T can be informed promptly when these situations arise, movement sensors have been installed in Mr T's bedroom, shower room, toilet and kitchen, along with a door sensor on his wardrobe door. This allows Mrs T to monitor her husband's activity and promptly identify and manage any incidents, leading to better rest and less stress.
- A video carephone also allows the couple to quickly call their son or nephew should they need help in an emergency.



Quality of life

- Greater independence
- Family member acts as responder
- Solution Enhanced safeguarding / sense of safety

Mrs M's Story

Mrs M lives alone and has experienced falls due to limited mobility. She recently had a UTI which made her more confused and unsteady. As a result, her family became increasingly concerned about her welfare.

- Her daughter was interested in having the movement and door sensors to monitor what her mum was doing each day, and an alert that informs her if the front door has been opened at night.
- An Alexa allows care staff to "Check-In" to the device so visits can be monitored, allowing ECL to obtain evidence of how long staff are spending supporting Mrs M so they can plan her ongoing care needs.
- A Video Carephone was also installed, which has allowed her to video call her daughter and see the work she has had done on her garden which Mrs M has been unable to go and see due to her current health status.



- ✓ Quality of life and peace of mind
- ✓ Greater independence
- Family member acts as responder
- Enhanced safeguarding / sense of safety

#CareKeptClose Garden Lodges Powered By Alcove

Problem: too many older adults living for longer set against a backdrop of not enough care homes, care home fees going north of £40k and a huge funding gap.

INTRODUCING... A NEW WAY TO THINK ABOUT ELDERLY CARE

Beautiful, comfortable, self-contained living spaces that can be built in the garden of the family home fitted out with an Alcove #carestallation and an optional care package so you know your loved ones are being looked after – and within arm's reach.

Available to buy or rent, our fully furnished garden lodges come equipped with a voice and video calling carephone, falls button, motion sensors, door sensors, chair and bed occupancy sensors, and "Press Me" buttons for calling for help or to request assistance straight to the family so that peace of mind is maximised and mum can live a truly fulfilling life close to her loved ones.





#GrowOldDisgracefully. That's an order.



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