



# Sensor Based Falls Technology in Care Homes

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# Why is Falls Prevention Important?

- Falls cost the NHS £2.3 billion annually
- Care Home residents are three times more likely to fall than older people living independently at home
- Care Home residents are ten times more likely to sustain significant injuries from a fall compared to community-dwelling peers
- Falls are a leading cause of non-elective hospital admissions, reduced independence, and increased complexity of care needs



# NHS England Digitising Social Care Fund

- Remote monitoring and sensor-based falls technology deliver benefits to the health and social care sector including **reduced hospital admissions, facilitated discharge, reduced length of stay within acute settings, and admission avoidance.**
- The DISC funding presents an **opportunity** to build on work already underway within the ICS footprint enabling it to make a real **step change** away from the **crisis-driven model of care and support, to one that is proactive and preventative**, supporting people to Age Well.
- Previous experience shows that **the technology itself will not realise the benefits.** To fully harness its potential and create a **sustainable approach with long-term lasting impact**, change management resources are required to support a **people-first approach and to build the evidence base for future investment.**



# BOB SBFT Project

- Led by BOB ICS with 2 Local Authority partners – Buckinghamshire & Oxfordshire
- Building on pockets of good practice across the region we are working with one technology supplier – Vayaar – supporting 350 residents across 5 care homes
- Vayaar supplies passive sensor monitoring, alert function, and data insights dashboard for falls identification & prevention
- 12 month project supporting care homes with installation, training, cultural and process change
- Evaluation to include qualitative and quantitative data, impact analysis, lessons learned, and scale-up strategy
- Expected benefits include decreased non-elective admissions, improved night monitoring, faster incident response, improved resident independence/quality of care, and improved workforce capacity



# What is the Biggest Risk Indicator for Falls?

# Technology Partner - Vayyar

Leading-edge  
mmWave  
4D imaging

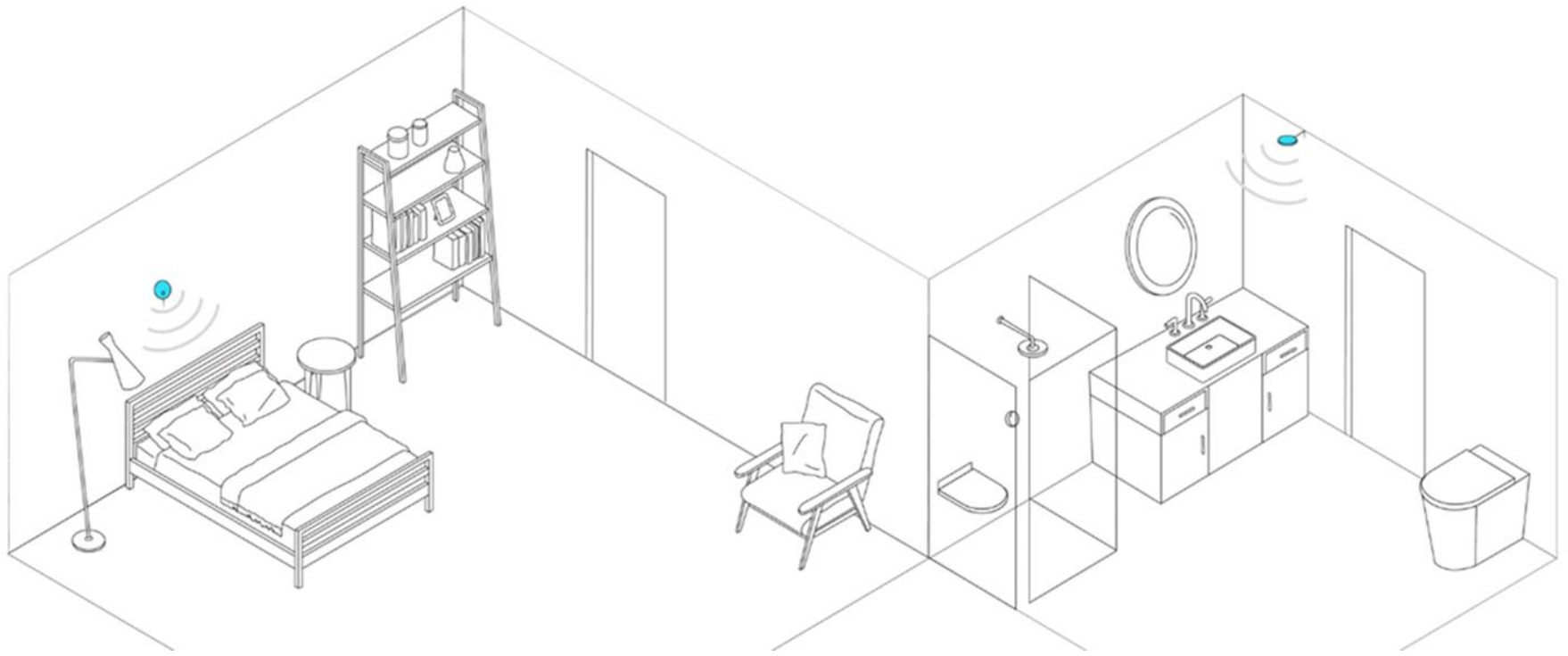


- ▶ Uses harmless radio frequency waves significantly weaker than a Wi-Fi signal
- ▶ Fully FCC-approved
- ▶ Authorized for use across the US, UK, Europe, China, Taiwan, Canada, Australia, and Japan

- Vayyar sensors work in complete darkness as well as in dense steam, safeguarding slips and trips in bathrooms where falls often happen
- Wide field of view - 140° FoV provides maximum room coverage with no blind spots, ensuring complete protection and visibility – only needs one device per room
- Long range scanning – one device covers 16 sq m



# Technology Partner - Vayaar

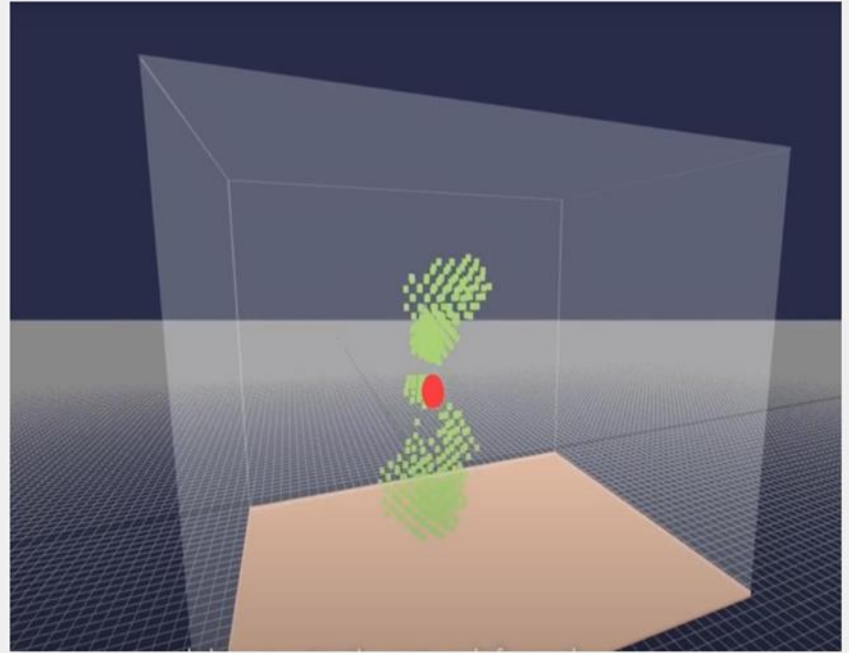




# Technology Partner - Vayaar

This is Vayaar Care, the worlds most advanced touchless technology.

Radio frequency sensors monitor 24/7 without cameras, buttons cords or wearables maintaining privacy and dignity at all times





# Implementation Impressions

- Social Care providers are open to and enthusiastic about using this technology
- There is recognition that use of this technology is a cultural step-change in potential delivery of care worker tasks such as night checks and likelihood is that the technology will be used in parallel
- There is appetite for having a “single source of truth” in terms of data in order to unleash the power of analytics and provide better preventative care
- Data relating to falls is not necessarily reflective of the true picture – falls often recorded as fracture at point of admission – all care homes we engaged with reported higher number of falls than data we held
- The importance of unreported falls as a risk indicator for future falls



# SBFT – Disruptor or Enhancer?

## BOTH!

- Disruptive for workforce – cultural change, requirement for digital literacy which could be challenging for some care workers
- Enhancer for quality of care – better data analytics and risk management will reduce and identify falls, reduce non-elective admissions, and enhance health in care homes



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