

UKTelehealthcare



IoT Solutions
Group

A Smarter Future, Today

Barriers to Scaling Adult Social Care

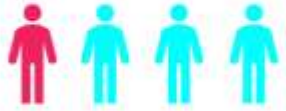
Emma Mahy &
Neal Forse

Founders



A sector in crisis

80% of British people want to live independently in their own homes for as long as possible



By 2038, one in four people in the UK will be **aged 65 or over**

FALLS are the second leading cause of unintentional injury deaths worldwide



75% of 75 year olds in the UK have more than one long term condition

The **biggest factors** that threaten **independent living** include...

- **Weakened functional capacity**
- **Loneliness**
- **Immobility**
- **Falls**
- **Malnutrition**
- **Unsuitable accommodation**



Barriers to Scaling Adult Social Care



Statement #1

Data driven prioritisation of Adult Social Care services, enables scalability.

Statement #2

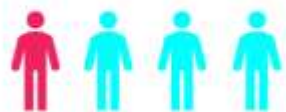
Without data driven prioritisation, Adult Social Care services cannot scale.

Statement #3

The prerequisite to the long-term scalability of Adult Social Care is Real-Time **Quantitative** data that drives inferred Real-Time **Qualitative** assessments.

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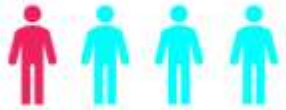


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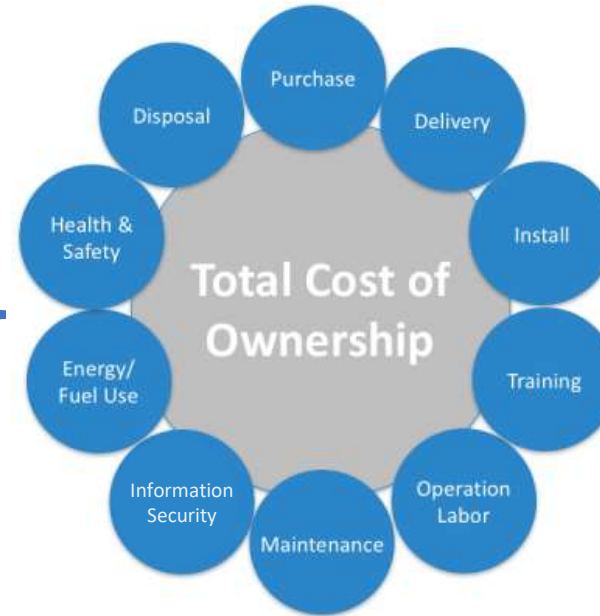
Barriers to Scaling Adult Social Care



Statement #4

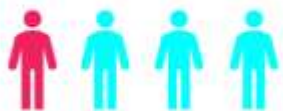
Poor Sensor Device selection is the most significant Barrier to Scalability.....

- 1) Installation
- 2) Activation
- 3) Connectivity
- 4) Maintenance



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Barriers to Scaling Adult Social Care



Step 1:
Sensor sent to resident



MADE IN BRITAIN

Step 2:
Data is transmitted



Step 3:
A digital twin of behaviour is built



Step 4:
Alerts are triggered



Door open/closed sensor

Real-time notification of door opening and closing for monitoring security and wandering behaviour

Keyring location beacon

Notifies carer or family member when the resident leaves home and arrives back again

Environmental monitoring sensor

Follow daily patterns of human activity, monitor for healthy temperature and humidity levels, as well as relaying data automatically from all other sensors

Water temperature sensors - hot and cold

Monitor use of hot and cold water for cooking, drinking, etc.

Walking frame movement sensor

Assess mobility through use of the frame and receive notifications if the walker is tipped over

Fridge/Freezer sensors

Observe potential food safety issues through internal temperature and door opening monitoring

Pendant location beacon

Check movement of the resident between rooms within the property

Environmental monitoring sensor

Confirm regular hygiene routines with notifications of the resident taking a bath or shower

Bathroom water temperature sensors - hot and cold

Observe personal hygiene routines, such as regular washing, teeth cleaning, etc.

Toilet sensor

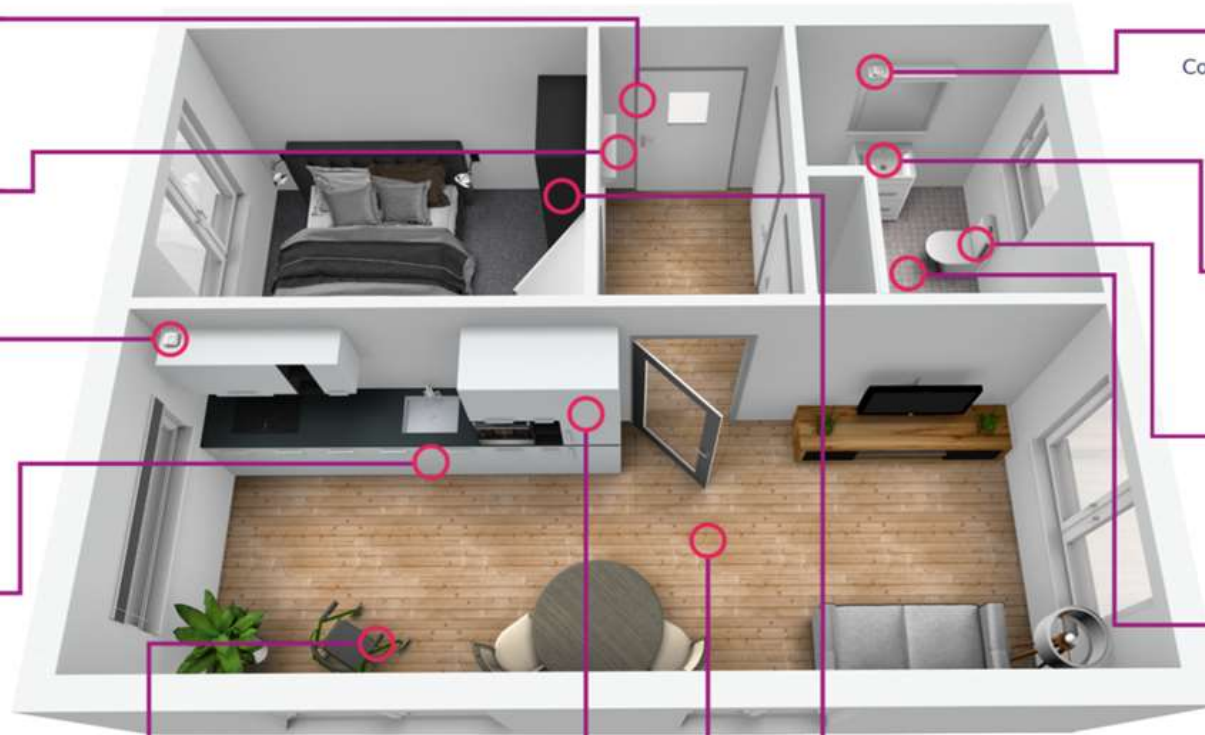
Receive a notification each time the toilet is flushed, with flush duration to help monitor physical health

Leak detection

Reduce maintenance calls by remote monitoring of water pipes for leaks

Storage movement sensor

Assert that clothes are being regularly changed by monitoring wardrobe use



Conclusions:

- 1) Data must be Qualitative, so that it can be easily interpreted by care staff.
- 2) Qualitative insights at scale, are inferred in software from Quantitative data sources.
 - In the home, those sources are mainly ADL sensor devices.
- 3) To scale Adult Social Care services, ADL sensor devices **MUST** be TCO optimal.

We take care of the tech, so that you can take care of your community



No internet connection
or Wi-Fi needed



No mains
power required



No cameras or
microphones



Tailored/integrated online
dashboard with data visualisation



Customisable email reports
& alerts



Real-time
reporting



Highly durable
devices



Designed, manufactured
and refurbished in the UK

All of our solutions can work together as a complete
end-to-end, fully-managed package tailored to your requirements



IoTSG