



howz

Longer, healthier, happier lives



Howz enables the elderly to live longer, healthier, happier lives at home.

We do this by gathering wellbeing data from within the home to catch potential issues before they escalate.

Howz uses a range of discrete sensors to track user behaviour and advanced machine learning to identify potential concerns.

Our app and dashboards notify families or support teams of potential issues so they can intervene and prevent deterioration.

Howz is evidenced to reduce health emergencies, lower anxiety, and to prolong independence.

# Howz solution for longer, healthier, happier lives at home



## Remote monitoring

Howz remote monitoring gathers a round the clock, objective view of behaviour at home



## Machine learning

Howz machine learning analyses each individual's circumstances, and flags indicators of risk



## Care analytics

Howz keeps care providers informed with a family app, alerts and reports for care teams





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Built on top of deep scientific rigour

# A platform to guide care decisions

1

## The next generation of remote monitoring

Howz brings the future of technology to remote monitoring to deliver a platform that enables fast and accurate cohort level decision making.

Our analytics are used for:

- Strength based reablement
- Short term care needs assessment
- Long term assessment of progressive conditions
- Assessing high-cost care packages
- Admission avoidance

Is Hub Online? ↓	App	Food	Hygiene	Night	Rest	Social	Lifecycle
✓	●	●	●	●	●	●	active
✓	●	●	●	●	●	●	active
✓	●	●	○	●	●	●	active
✓	●	●	●	●	●	○	active
✓	●	●	○	●	●	●	active
✓	●	●	○	●	●	●	active
✓	●	○	●	●	●	●	active
✓	●	●	●	●	●	●	active
✓	●	●	●	●	●	●	active
✓	●	●	●	●	●	●	active

# A platform to guide care decisions

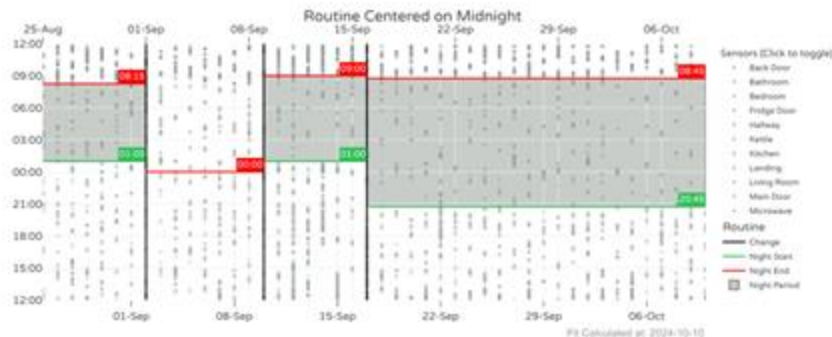
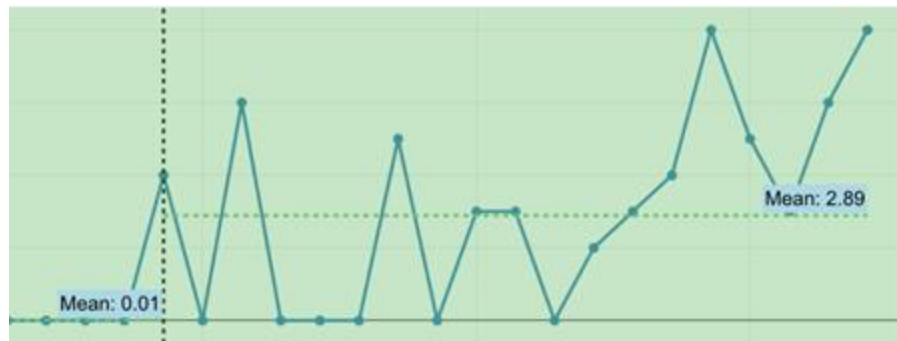
1

## Summaries and deep intelligence immediately available

Howz portal provides easy to read overviews, backed up by in depth to care analytics to enable the right interventions.

Whether changes in sleep, bathroom use, front door use, eating or general pattern of life, user behaviour can be visualised across time for easy decision making.

Total duration of bathroom activity at night over time  
Duration in hours



# A platform to guide care decisions

1

## Customisable alerts

Howz generates user-specific alerts based on key markers that signify high risk.

Alerts can be switched on and off for each user and customised for their behaviours with emails going to tech teams so they can respond immediately.

Reports can also be extracted from the portal and emailed to teams as user specific wellbeing summaries.

### Alert Settings

#### Day Settings

First Activity	<input type="checkbox"/>
Low Day Activity	<input checked="" type="checkbox"/>
Late Wakeup	<input checked="" type="checkbox"/>
Temperature Under 16c	<input type="checkbox"/>

#### Night Settings

Up in the Night	<input checked="" type="checkbox"/>
No Night Activity	<input type="checkbox"/>

#### 24hr Settings

Door Opened	<input type="checkbox"/>
Door Left Open	<input type="checkbox"/>
Unexpected Activity	<input checked="" type="checkbox"/>
Away from Home	<input type="checkbox"/>

Customisable alerts covering a wide array of use cases

# A platform to guide care decisions

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## Bringing families into care delivery

The Howz app provides a real-time view of wellbeing directly to users, their families and their support networks.

Howz provides the information families need to take more ownership in the care of their loved ones, reducing the burden on care practitioners.

Our service has been evidenced to provide a 60% reduction in anxiety for users and their loved ones.





# A platform to guide care decisions

1

Supports two individuals living together

Howz is the only service that can provide accurate analytics for an elderly couple living independently.

This allows us to provide support to a much wider group of individuals, and take care of vulnerable individuals living with spouses.



## Wide range of technology integrations

Howz deploy a broad range of sensors and technologies to support users living independently.

Our relationships with the NHS and the Dementia Research Institute mean that we are relied on to identify, develop and release the best technologies available.

Behavioural monitoring for early intervention:	Motion sensors, door sensors, smart plugs
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Environmental monitoring:	Temperature, light, humidity, smoke and vibration sensors
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Medical devices for condition monitoring:	Heart rate, blood pressure, pulse monitors, sleep mats, scales
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Reactive devices for emergencies:	Panic button
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# Using data from multiple device types

2

## Wide range of devices

Howz gathers data from a wide range of sensors so a service can be tailored to user requirements.

For users with lower level requirements, we can provide a light-touch sensor pack for a long term wellbeing view.

For users with escalating care needs, we can take health readings, a rich view of behaviour in the home and even provide a panic button.



## Off the shelf sensor package

Howz provides ready to use sensor packs for customers who require them.

Standard prescriptions include motion sensors, door sensors and plugs along with a smart hub for data capture.

The Howz sensors are so quick and easy to install that it can be done by users and their families in just 20 minutes.



# Using data from multiple device types

2

## Regular new technology releases

Howz technologists are always testing and releasing new integrations to support a wider range of data sources.

We are already working on new integrations that will be launched over the course of 2024.

New releases are initially tested in Beta with one development partner before being made available to all.

In Beta:  
for release Q3 2024

Vocala  
Upgraded sleep mat

In development:  
For testing Q4 2024

Vibby fall detector  
Two-way audio assistant

In planning:  
For release Q1 2025

Apple smart watch  
Medication management

## Validated positive impact

Howz excellence is backed up by data.

An independent evaluation by the Academic Health and Science Network found a meaningful reduction in health and social care needs with Howz.

42  
%

Reduction in risk of care  
home admission

60  
%

users felt less anxious  
since joining the service

13  
%

Reduction in ambulance  
callouts

32  
%

Reduction in emergency  
admissions

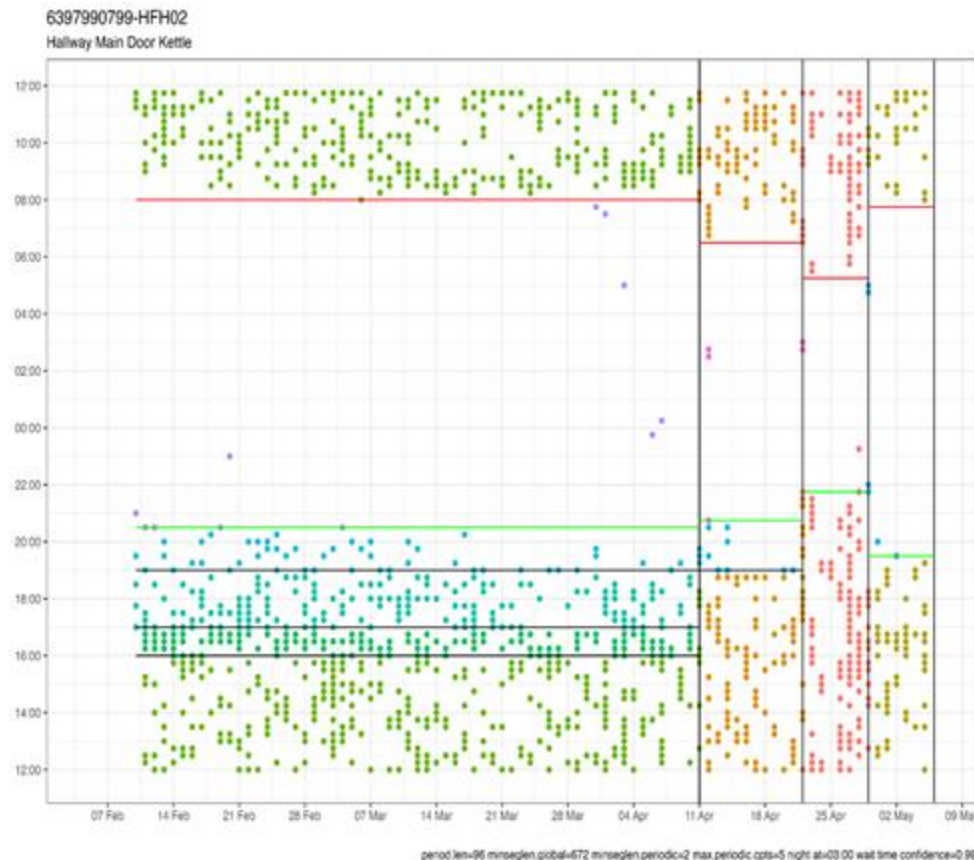
23  
%

Reduction in inpatient  
stays at hospital

## World-class data science

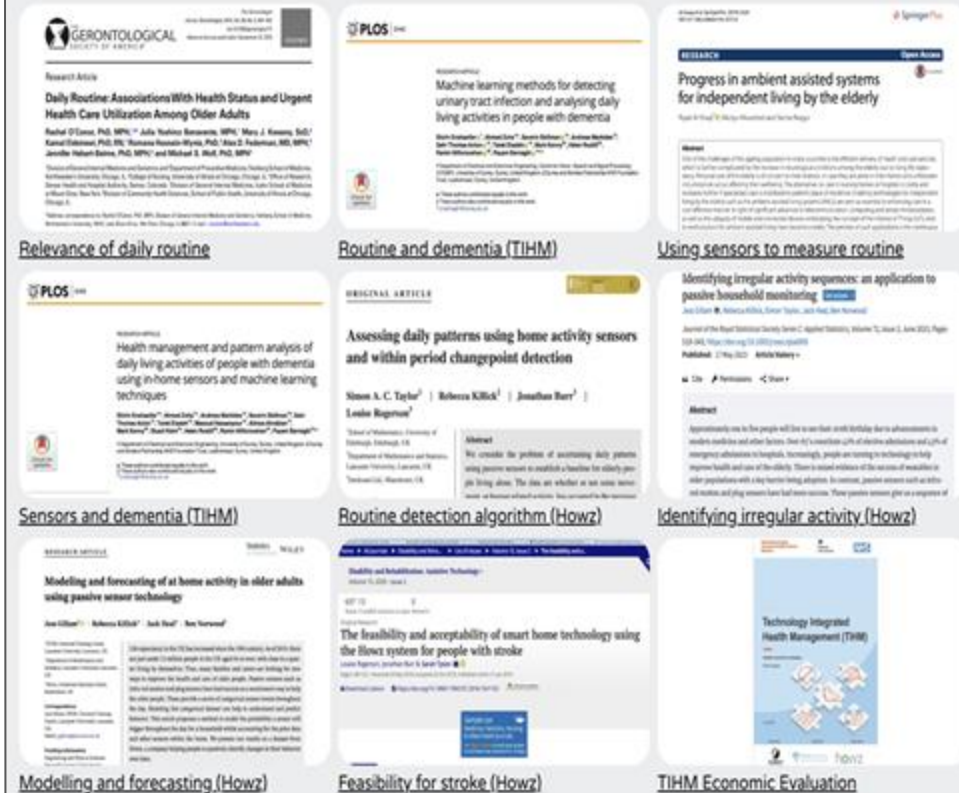
Howz is powered by the future of machine learning. We push the boundaries of data science to provide the best user support possible.

Our data science team work in partnership with the University of Lancaster - a world-class capability that sets the standard for contemporary data-driven research.



Our north star is the accuracy and dependability of our data and recommendations.

Howz algorithms are published by the Royal Statistical Society, and clinical research and studies have validated our data points for measurement across dementia, stroke and UTIs.





# howz



Crown  
Commercial  
Service  
*Supplier*

