

Data sources

Smart Home



Hub



Socket (+ range extender)



Motion, temp, light



Door, temp



Button



Vibration, temp



Smoke

Many other devices available e.g. RFID, keypad flood, humidity, C0

Smart Meter



Electricity

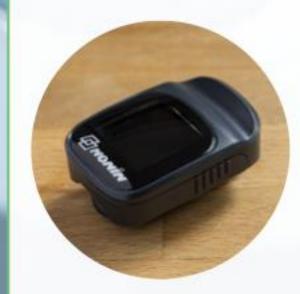


Water

Mobile device



Medical devices



Pulse Oximeter



Thermometer



Scales



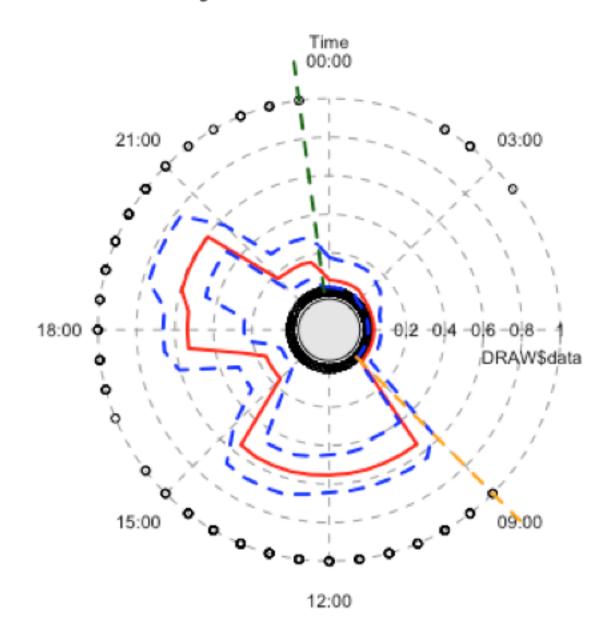
Blood Pressure

Using machine learning to detect anomalies

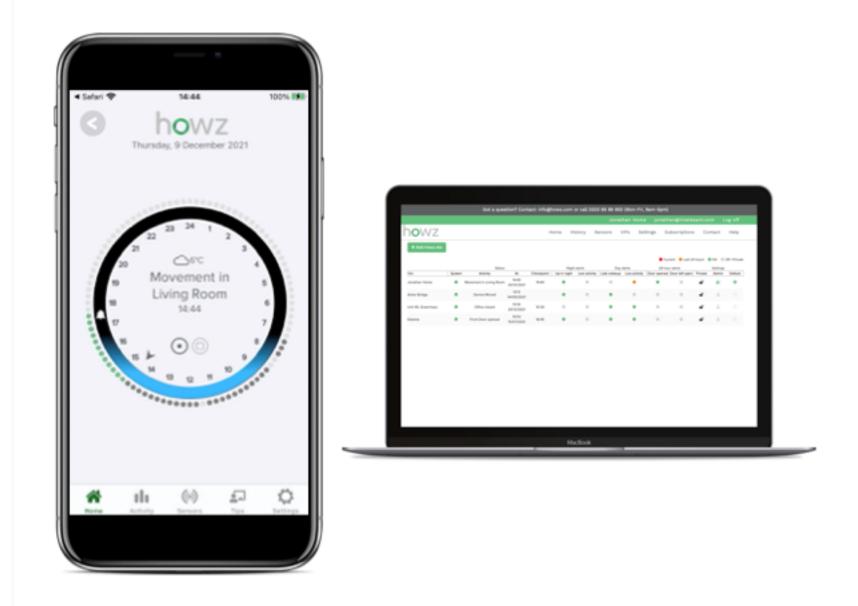
In first 7 days find start and end of day, activity during day; and update weekly thereafter



Model gives statistical basis to send alerts based on customer's sensitivity



3 Send alert that Mum is not as we would expect her to be



No need for manual settings – works 'out of the box'



COVID risk doubles for people with dementia

Odds of COVID-19 in patients with dementia (adjusted for demographics and known COVID-19 risk factors)

Exposure	Outcome			AOR (95% CI)	р
Dementia	COVID-19		H	2.00 (1.94–2.06)	<.001
Alzheimer's disease	COVID-19		 	1.86 (1.77–1.96)	<.001
Post-traumatic dementia	COVID-19		· +	1.67 (1.51–1.86)	<.001
Presenile dementia	COVID-19		<u> </u>	2.62 (2.28–3.00)	<.001
Senile dementia	COVID-19		· +	1.99 (1.86–2.13)	<.001
Vascular dementia	COVID-19		·	3.17 (2.97–3.37)	<.001
	0)	1 2 3 4 5 6 Adjusted Odds Ratio (AOR)		

Reference: Wang Q, et al. COVID-19 and dementia: Analyses of risk, disparity, and outcomes from electronic health records in the US. Alzheimer's & Dementia. 2021, Feb 9. doi: 10.1002/alz.12296.



TIHM for COVID

Sends Howz kit including medical devices and provide first line support. Follows up missing observations



NHS

NHS Foundation Trust

Self refers

Family access



Surrey and Borders Partnership

Reduces anxiety and pressure on services

Daily routine, adherence & anomalies









howz



Tracks activity, environment and vitals for patient and carer

101





Monitoring team manages cases

Creates and tracks cases

Refers new service users





GP & community hubs









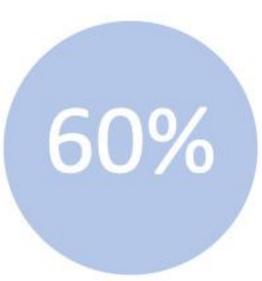
Outcomes of TiHM for Covid

AHSN Independent economic assessment of outcomes over 12 months

SOCIAL OUTCOMES



Reduction in risk of care home admission due to TIHM



of TIHM users feel less anxious since joining the service



70kg of CO2e emissions saved per TIHM user per year

PATIENT OUTCOMES



Reduction in ambulance callouts



Reduction in emergency admissions



Reduction in inpatient stays in hospital



Reduction in attendees requiring no treatment

ECONOMIC OUTCOMES



Positive impact on overall cost of care



£multi-million

Potential gross savings to local authority over 5 yrs by reducing care home placements



Positive ear return o

5 year return on investment for every £1 spent

Thank you

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Crown
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Supplier

