

Connecting people, ideas and resources

4. Building better and smarter communities: utilising technology and innovative solutions

#HLINconf19





Tunstall

Enabling independent living

Loreburn Housing Association

Investing in sheltered housing

for a digital future

ANGELA TARVET

Senior Account Manager Tunstall Healthcare

The challenge



- In 2017, seven Loreburn Housing Association schemes in Dumfries and Galloway were identified that had alarm systems nearing end of life
- Loreburn's strategy: using technology to innovate and improve services
- Required a digital solution enabling rapid and robust communication and adaptation to advances in technology
- Tunstall's Communicall Vi IP was chosen



The aim



Provide free Wi-Fi at all Loreburn schemes

- Sheltered developments the first to benefit
- Increase in number of residents using tablets, smart phones and computers
- Enabling social/digital inclusion
- Ensure schemes are fit for purpose in the future



Gifhorn House, the first Loreburn Housing Association development to benefit from Communicall Vi IP



Enabling independent living

"Loreburn is dedicated to creating great places to live, and to helping our customers to live independently and safely in their own homes for longer. We are continuously striving to improve our services, and technology plays a key role in this. We want to provide the best support we can today, but also make sure our investment provides us with a platform for the future."

Moira Charters, Head of Partnerships and New Initiatives, Loreburn Housing Association



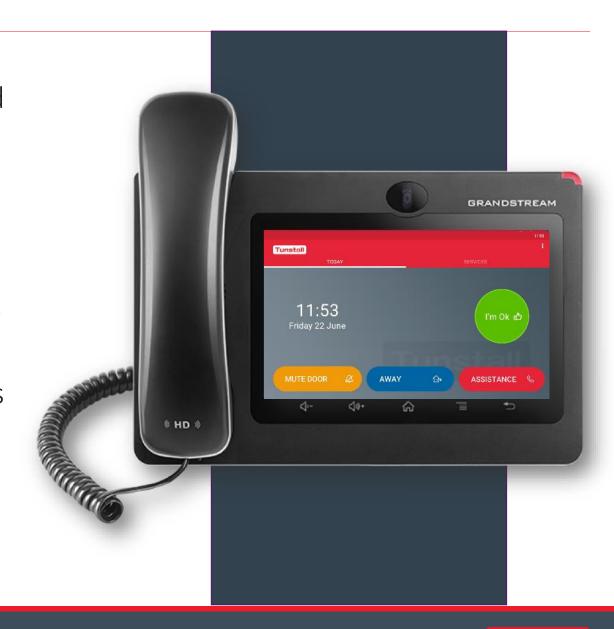
The solution

Communicall Vi IP is Tunstall's first digital solution for housing providers and residents. Loreburn Housing Association are the first Registered Social Landlord in Scotland to install Communicall Vi IP, demonstrating its commitment to providing its customers with the most advanced and best value solutions possible.



Communicall Vi IP Features

- Digital touchscreen phone, which enables rapid alarm reporting
- Video door entry
- Free onsite video and telephone calls
- Multiple speech channels
- Capability for the system to evolve over time to support new technologies such as apps.
- Android-based ecosystem for apps and services
- Social and digital inclusion





Enabling independent living

"This investment will change the lives of more than 200 older people, helping them to feel safe and secure, and more independent. It will also enable them to connect with their friends and family, and participate in an increasingly digital world."

Amanda Yellowley, Operations Director, Loreburn Housing Association



Android-based ecosystem for apps and services

- ARMED (Advanced Risk Modelling for Early Detection) solution by CM2000
- Data collected from a smart waterproof wristband with predictive analytics modelling to monitor the wearer's vital health signs and predict the potential risk of falling





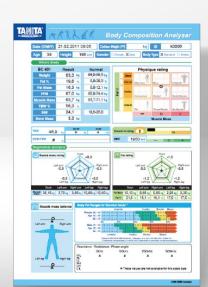
Prevention in Action





Measurements

- Weight
- Segmental body fat %
- Segmental muscle mass
- Body fat % (age 5 99 years)
- Healthy body fat indicator
- Total body water %
- Muscle mass in kg
- Bone mineral mass
- Visceral fat indicator
- Daily Calorie Intake
- Metabolic age
- BMI











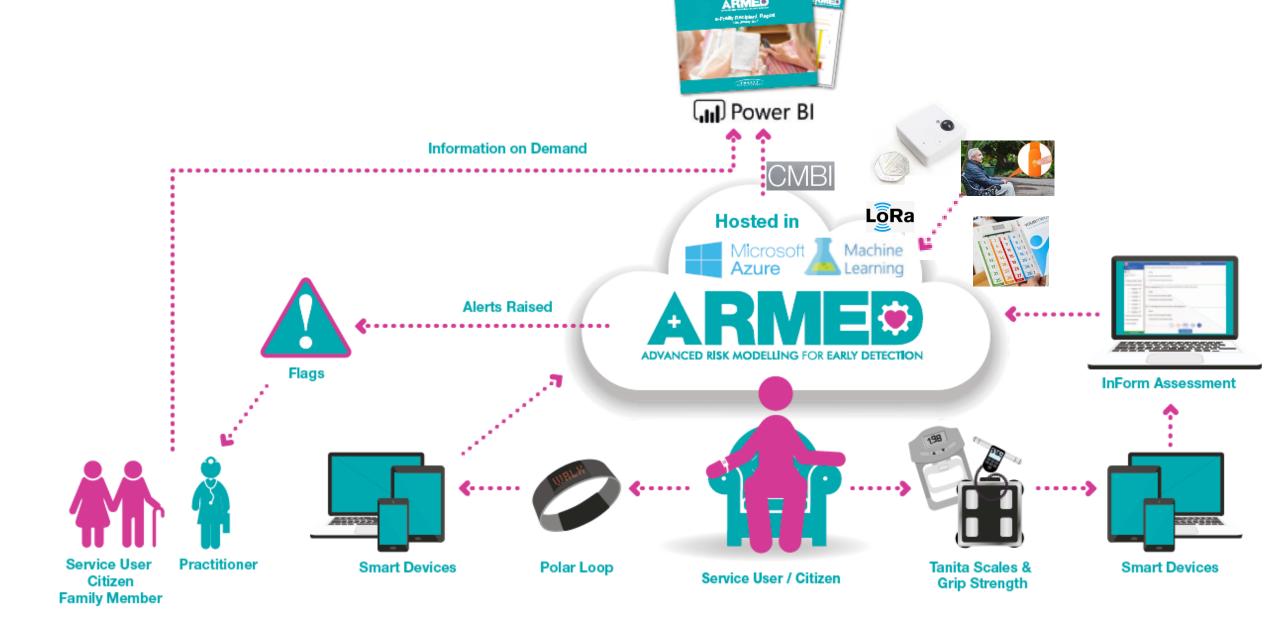




Polar Wearables – Data Metrics – 10

Date	Resting	Sitting	Low	medium	high	Total sleep	restfull sleep	Restless sleep	inactivity stamps	Distance walked	Steps taken	How is service user feeling today	Duty	Week	Morth Onzmin
01/03/2016	6h 33min	14h 55min	2h 31min	0	0	2h 40mins	2h 5mins	34mins	4	0.65mi	2346	Not so good			
02/03/2016	6h 49min	14 48min	2h 23mi n	0	0	5h 8mins	3h 53mins	1h 15mins	3	0.58mi	2112	Okay		22 24 2	
03/03/2016	6h 13min	14h 41min	2h 42min	0	0	4h 30mins	3h 18mins	1h 12mins	1	0.65mi	2346	Okay	-18	4 ,	
04/03/2016	6h 42min	14h 59min	2h 18min	0	0	2h 14mins	1h 46mins	28mins	3	0.56mi	2048	n/a	.18	6.	
05/03/2016	7h 2min	12h 5min	1h 54min	0	0	2h 19mins	1h 48mins	30mins	3	0.49mi	1780	n/a	1.0	4 13 10 .	
06/03/2016	7h 1min	15h 3min	1h 55mi	0	0	3h 59min	2h 37min	1h 22min	3	0.47mi	1714	Okay		12	
07/03/2016	6h 29min	14h 43min	2h 47min	0	0	3h 27min	2h 40min	46min	2	0.71mi	2562	Not so good			
08/03/2016	6h 36min	15h 6min	2h 17min	0	0	6h 6min	3h 53min	2h 13min	4	0.59mi	2136	Okay			
09/03/2016	4h 38min	16h 55min	2h 26min	0	0	2h 57min	2h Omin	56min	2	0.60mi	2287	Not so good		119 % Daily goal status	
10/03/2016	4h 31min	16h 53min	2h 35mi n	0	0	3h 11min	2h 3min	1h 8min	3	0.69mi	2514	Okay		0	D.
11/03/2016	7h 19min	14h 42min	1h 50mi n	0	0	4h 58min	3h 4min	1h 53min	3	0.47mi	1724	Okay	Food Activity	Training Notethorns	na More
12/03/2016	5h 15min	16h 34min	2h 10mi n	0	0	2h 3min	1h 1min	1h 2min	4	0.56mi	2032	Not so good	***** 66 🗢	16:16 7 8	1 99% -
13/03/2016	6h 53min	15h 8min	1h 58min	0	0	3h 22min	2h 49min	33min	4	0.56mi	2014	Not so good	2	≎ LAR.	
14/03/2016	5h 32min	12h 18min	2h 22min	0	0	n/a	n/a	n/a	0	0.60mi	2174	Not so good	27	Week	Month
15/03/2016	5h 28min	15h 40min	2h 40min	0	0	1h 49min	1h 23min	25min	3	0.85mi	3028	Okay	26047	11.14	
16/03/2016	6h 52min	14h 31min	2h 36min	0	0	2h 31min	2h 10min	20min	3	0.70mi	2520	Okay	26047 Steps	Distance	
17/03/2016	7h 6min	14h 24min	2h 30mi n	0	0	6h 43min	4h 44min	1h 59min	3	0.77mi	2788	Okay	(3)	A.	
18/03/2016	9h 30min	12h 31min	1h 42min	0	0	3h 7min	2h 12mins	55mins	2	0.48mi	1730	Okay	7h45min	3149k	
19/03/2016	8h 51min	13h 8min	2h Omin	0	0	6h 4min	4h 34min	1h 29min	1	0.57mi	2056	Okay	Active time	3 149k	
20/03/2016	4h 57min	16h 46min	2h 16min	0	0	2h 24min	1h 34min	50min	3	0.60mi	2176	Not so good		Δ	
21/03/2016	5h 37min	13h 56min	1h 47min	0	0	4h 30mins	3h 31min	58min	2	0.52mi	1866	Okay			
22/03/2016	7h 1min	13h 52min	3h 6min	0	0	5h 51min	3h 37min	2h 13min	1	0.81mi	2944	Okay		O nactivity stamps	
23/03/2016	5h 53min	15h 27min	2h 31min	0	0	4h 8min	3h 25min	43min	2	0.69mi	2468	Okay	(-	
24/03/2016	7h 33min	13h 29min	2h 48min	0	0	3h 46min	3h 33min	13min	2	0.84mi	2990	n/a	_	C	
25/03/2016	5h 52min	15h 53min	2h 14min	0	0	3h 13min	2h 11min	1h 2min	2	0.65mi	2312	n/a	5h18min	899	
26/03/2016	5h Omin	16h 57min	2h 2min	0	0	n/a	n/a	n/a	3	0.58mi	2120	n/a			
27/03/2016	5h 22min	15h 31min	2h 6min	0	0	1h 39min	1h 12min	26min	3	0.55mi	1986	n/a	C	C	
28/03/2016	6h 41min	13 34min	2h 39min	0	0	4h 46min	3h 19min	1h 26min	4	0.72mi	2592	n/a	4h43min Restrict sleep	Oh35r Restless s	
30/03/2016	0h 37min	7h 12min	1h 16min	0	0	n/a	n/a	n/a	1	0.37mi	1296	n/a	₽	<	
31/03/2016	8h 14min	13h 56min	1h 49min	0	0	4h 5min	2h 51min	1h 13min	3	0.51mi	1844	n/a	Feed Activity	Training Notifications	







Innovation to Age in Place

Moira Charters

Head of Partnerships & New Initiatives,

Loreburn Housing Association



National Health & Wellbeing Outcomes

Outcome 2: "People, including those with disabilities or long term conditions, or who are frail, are able to live, as far as reasonably practicable, independently and at home or in a homely setting in their community"



Challenges of an Aging Population





Wider Rollout of ARMED commenced in May 2018

ARMED use Within Loreburn HA



Reported falls since May 2018 (reported as @ 20/11/18) where ARMED not deployed

	Number of Reported Falls	Number of Unique Individual Fallers	GP Visit	Ambulance Called	Social Care Package Instigated
Sheltered Development 1	30	9	11	16	9
Sheltered Development 2	13	5	2	3	3
Sheltered Development 3	9	5	2	2	3
Sheltered Development 4	7	3	0	0	0
Total	59	22	15	21	15

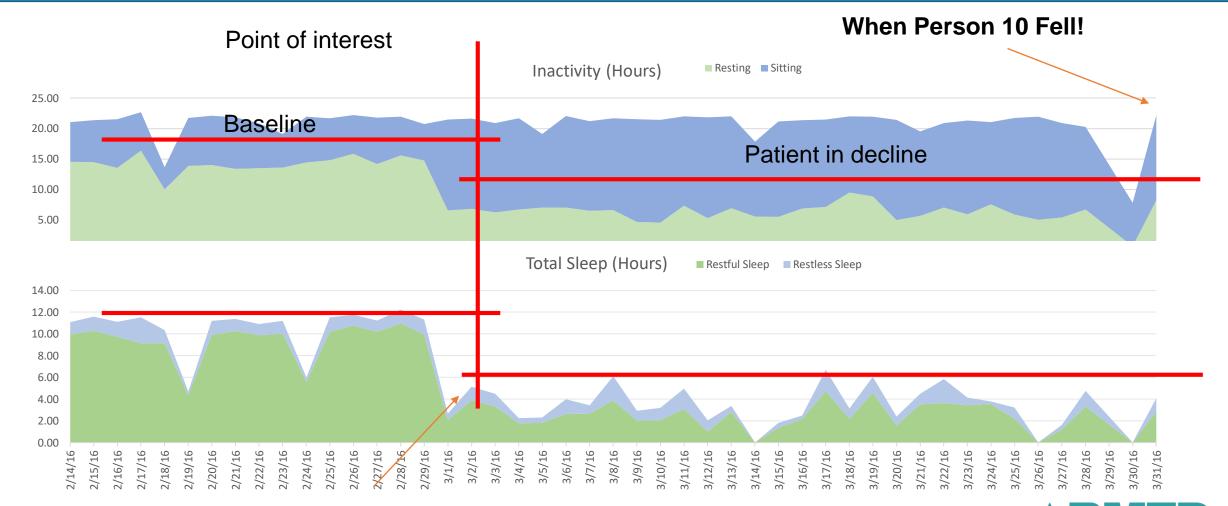
- Establishments 1-4 (where ARMED has yet to be deployed), there has been 59 reported falls in this timeframe of 22 unique people
- There has been a lot of statutory service involvement of GP callout's, ambulances called, and packages of care put into place. This has conservatively costed at **approximately £200,000***

How many falls has there been within Sheltered Development 5 where ARMED has been deployed?



- In development 5 where we have the ARMED solution rolled out there has been zero falls. The cost of the ARMED solution over the same period would be **approximately £8,000**
- The ARMED solution in this example would represent a significant return in investment in the region of **25**: **1** save to spend ratio

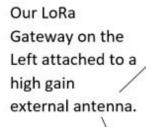
Patient 10 - Data Visualisation Following Recent Data Re-Analysis





What is the effect of the Environment?







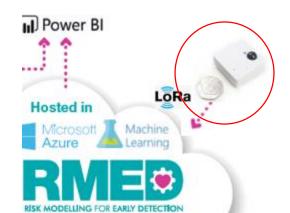
Test Equipment that Boston Network have provided on the right.



- This combined sensor includes
 - Motion Detection(PIR)
 - Temperature
 - Relative Humidity
 - Accelerometer
 - o Light detection
 - o Magnetic switch



- Data collected over long range low power network called LoRa
- Significantly reduces ongoing monthly costs
- Ability to capture data from very remote & rural locations
- GPS panic button via LoRa



18 February 2019

Cliente by Rick Loyal

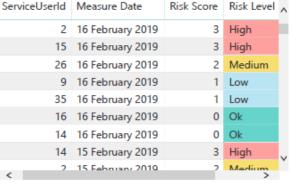
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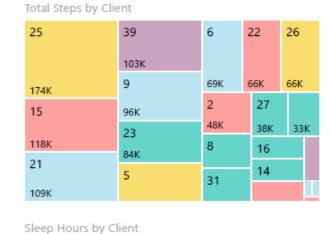
All Clients Summary (Last 14 days)

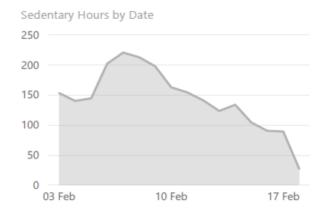


Risk Key High Medium Low Ok No Score

Clients by RISK Level						
ServiceUserId	Measure Date	Risk Score	Risk Level _^			
2	16 February 2019	3	High			
15	16 February 2019	3	High			
26	16 February 2019	2	Medium			
9	16 February 2019	1	Low			
35	16 February 2019	1	Low			
16	16 February 2019	0	Ok			
14	16 February 2019	0	Ok			
14	15 February 2019	3	High			
<)	15 February 2010	?	Madium >			







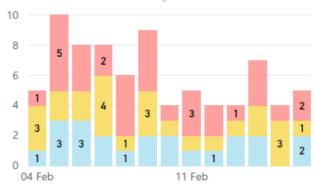
Total Inactive Stamps by Client

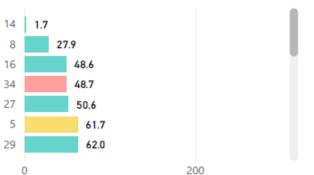


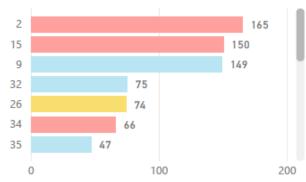
14 February 2019

13 February 2019 12 February 2019



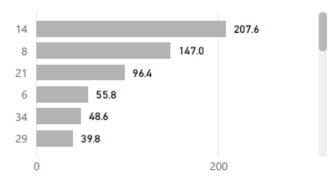




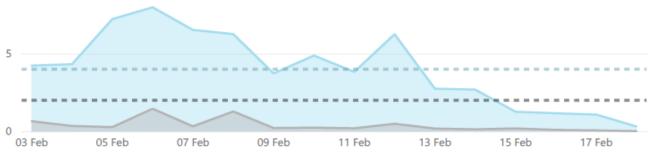


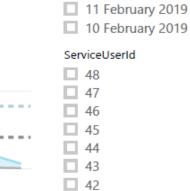
Active Hours by Date

Non-Wear Hours by Client









Latest Update Time

13 February 2019

13/02/2019 03:19:31

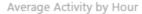
Client Details (Last 14 days)



11 Feb

13 Feb





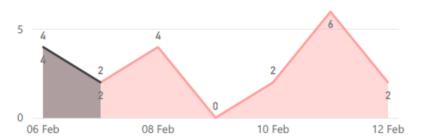


Week on Week Steps Change by Date



Total Inactive Stamps vs Last Week by Date

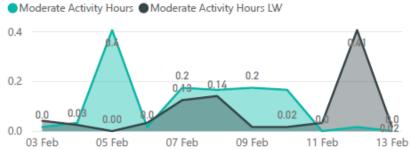
■ Total Inactive Stamps ■ Total Inactive Stamps LW







Moderate Activity Hours vs Last Week by Date



Sedentary Hours vs Last Week by Date

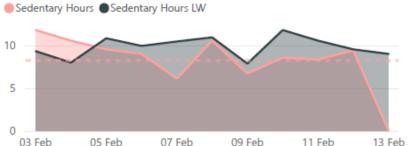
05 Feb

0

03 Feb

Sleep Hours vs Last Week by Date

Sleep Hours Sleep Hours LW



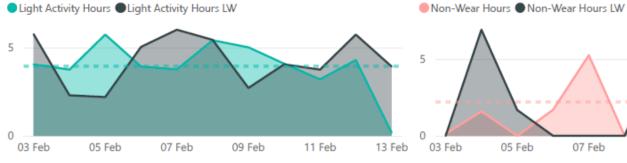
09 Feb

07 Feb





Light Activity Hours vs Last Week by Date

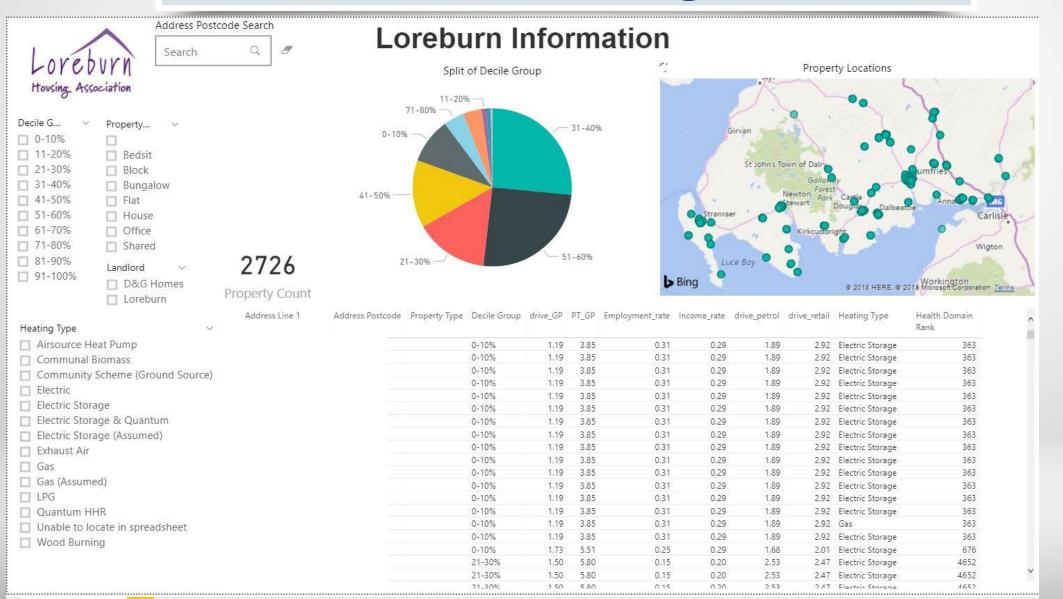


Non-Wear Hours vs Last Week by Date



The Power of the Jigsaw Bits





Attainment Attendance CIF Council_area Crime rate Max crime_count crime_rate Data_Zone DEPRESS drive_GP drive_petrol drive_petrol drive_retail drive_retail drive_secondary DRUG EMERG Employment_count Employment_rate HESA Income_count Income_rate Intermediate_Zone LBWT NEET nocentralheat_rate Noquals overcrowded_rate PT_GP PT_retail SMR Total_population Working_age_population_revised	S 88-	
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		Working_age_population_revised



Measure more, live better

We are part of



Taking you to where technology matters

















Tunstall

Enabling independent living

Next Generation Service for Healthy Ageing in Scotland

STEVE TOPE
Strategic Business
Development Director
Tunstall Healthcare

Next Generation Service for Health Ageing





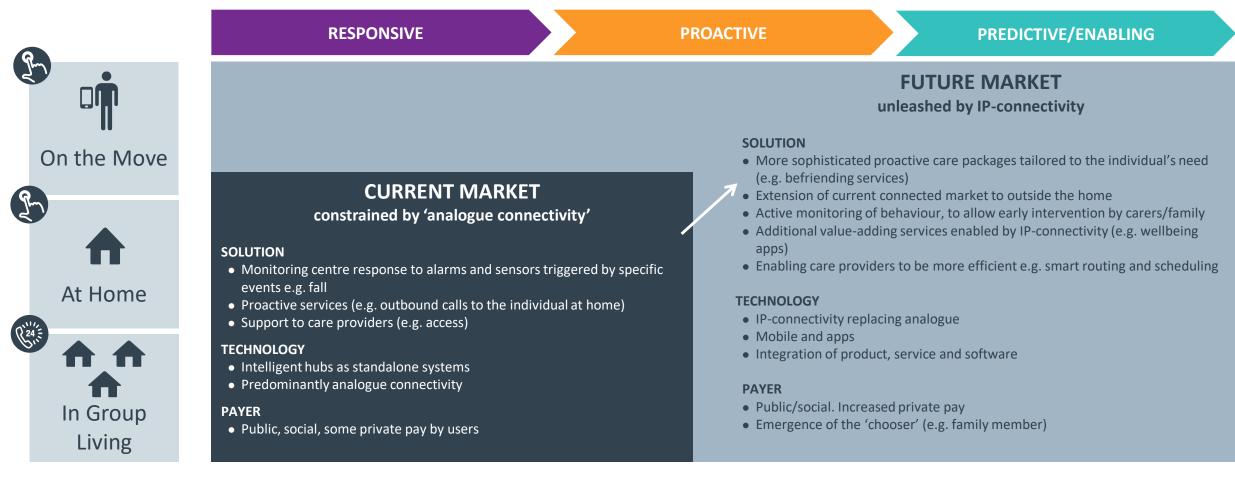
Our aim is to extending healthy independence through delivering new digitally enabled service models addressing key issues such as:

- Frailty
- Long term conditions
- Co-morbidities
- Loneliness

We will do this by developing:

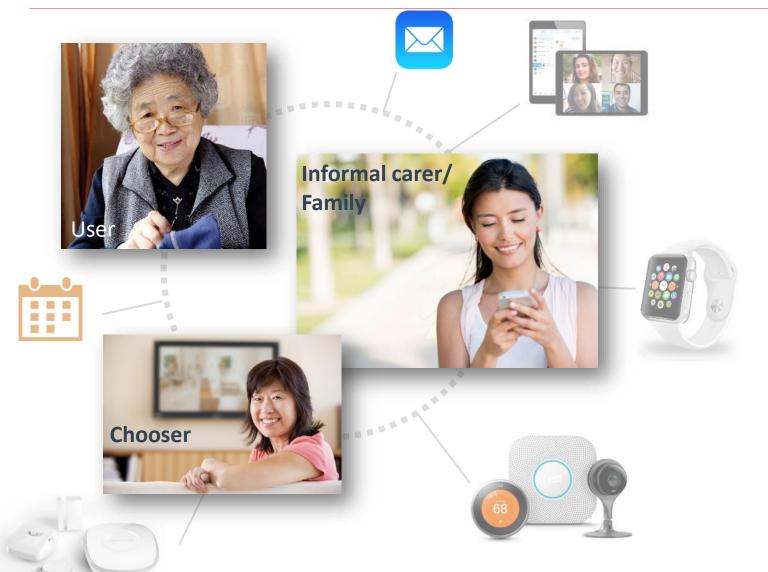
- 1. Blue print for a proactive, personalised, predictive Healthy Ageing service model
- 2. Foundation for advanced healthy ageing analytics
- 3. Accelerated market access for SME products

Digital connectivity is transforming the market from responsive to predictive



Developments in technology, such as mobile capability and increased connectivity are stimulating the transition towards more proactive and predictive/enabling care, by increasing the value of these new models of care to key stakeholders

New service models bringing people together



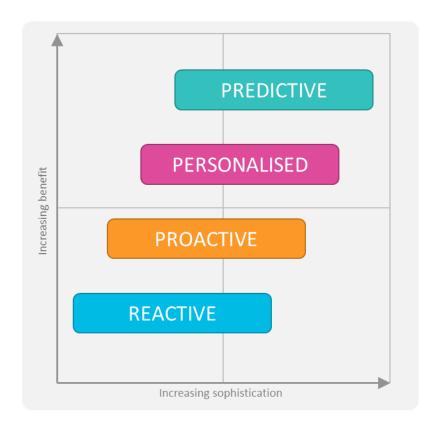
The connectivity of IP has the power to deliver a wide range of possibilities within Independent and Group Living – for users, choosers and formal and informal carers.

There is growing consumer interest in health and well being applications and services.

Business models are changing with data as the crucial element rather than hardware of software products.

Where is the journey taking us?

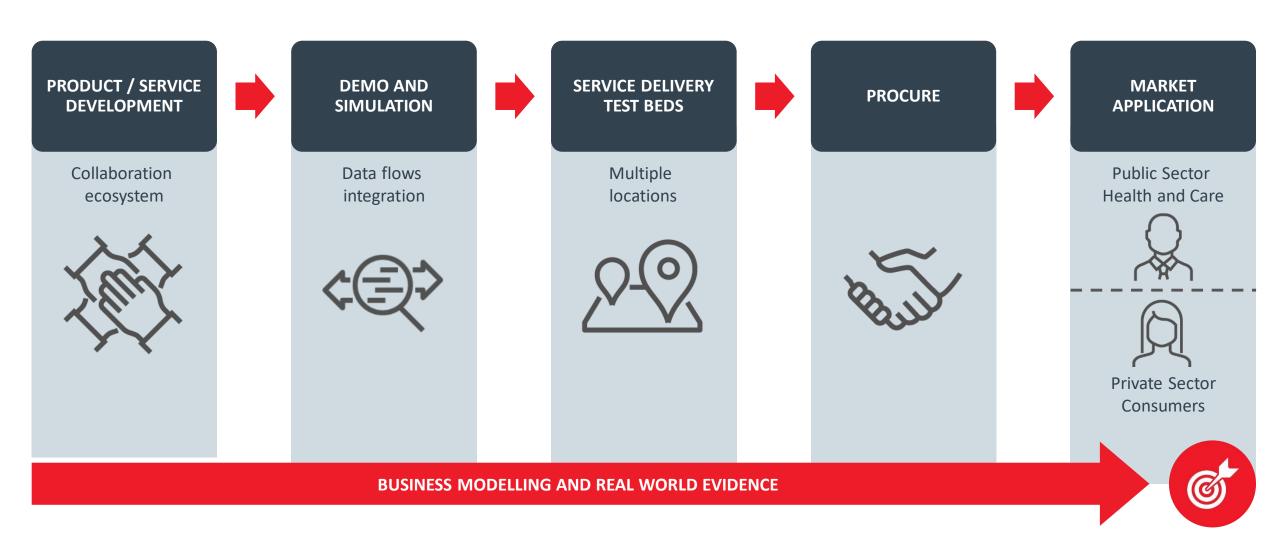
Digital unlocks great potential to combine mass data and connectivity, enabling the possibility of cloud data analytics. Prediction / intelligence Monitor / tracking **Data analytics IP** connectivity **Alerts** Reactive care



Predict events before they happen, highlight increased risk of falls or issues around the home

services

Facilitated route to market





What is a service designer?

A professional innovation leader in services

Balancing: users | technology | organisations

Plans & specifications for delegation or buying

A bit like what architects do for buildings.

My specific expertise:

35 years of design for communication services recognised IOT and inclusive design pioneer empowering telco innovation control





a oy

Big Government interest

The need hasn't gone away

Some useful startups

Some useful tenders

Big incumbents planning re-invention

New huge players entering the space

No nationwide customer stampede...



Funded sensor solutions now available to eligible DVA card holders

iVi automatic fall detector pendant PIR movement sensor Find-Me Tunstall carers watch

Click here for more information

Eligibility must be assessed by an appropriately qualified health provider.





Delivering Assisted Living Lifestyles, at Scale

early experiment in user led procurement

6 c's a useful metric

Clarified the big adoption barriers

Too superficial to really drive solutions

Interoperability the overriding tech goal

_The 6 C's





Control: Control over your health and your care.

Choice: Awareness of the possible health and care options available to you.





Community: Connecting you with your community.

Connectedness: Ease connecting with others through technology.





Contribution: Opportunities to contribute to your local community.

Collaboration: The opportunity to talk and share decisions and experiences with others.

back to the future 2: d.a.l.l.a.s / i-focus – experience lead



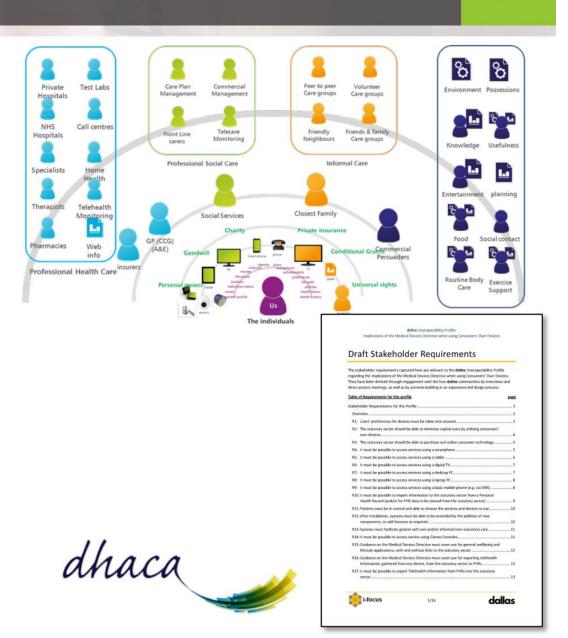
User-led interoperability drive

i-focus legacy:

The digital Health & Care Allowance https://dhaca.org.uk

Useful information, but...

Has it ever driven any code?

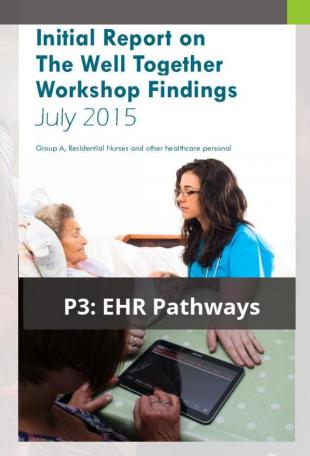




Contemplation Homes (UK)
'High needs' social care
in-home and residential.



In-Geest Mental Health
Hospital (Ned.)
VRIJE University(Ned.)
Remote, long term care of
bipolar conditions



Hawthorn Rd Surgery (UK)
Noord University (Norway)
Nursing care documentation
Remote, long term self care of
chronic conditions

A service design inspired by user research across 3 Euro projects

Insight | A 'big' solution is needed, 1 future-proof adoption decision a oy

Secure Low Cost & Future-proof





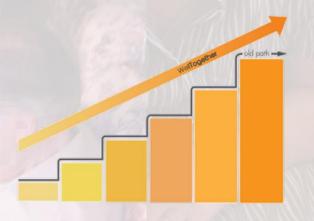
Affordable piece of mind



Closer contact

Easy to own and operate





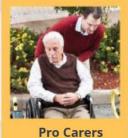


An easy to adopt productivity tool

Helping me Help others



The patient knows what I look like





More patient time, less paperwork

A single service that works across all care modes & stakeholders



modular functionality | sensor obsolescence | data continuity | process control

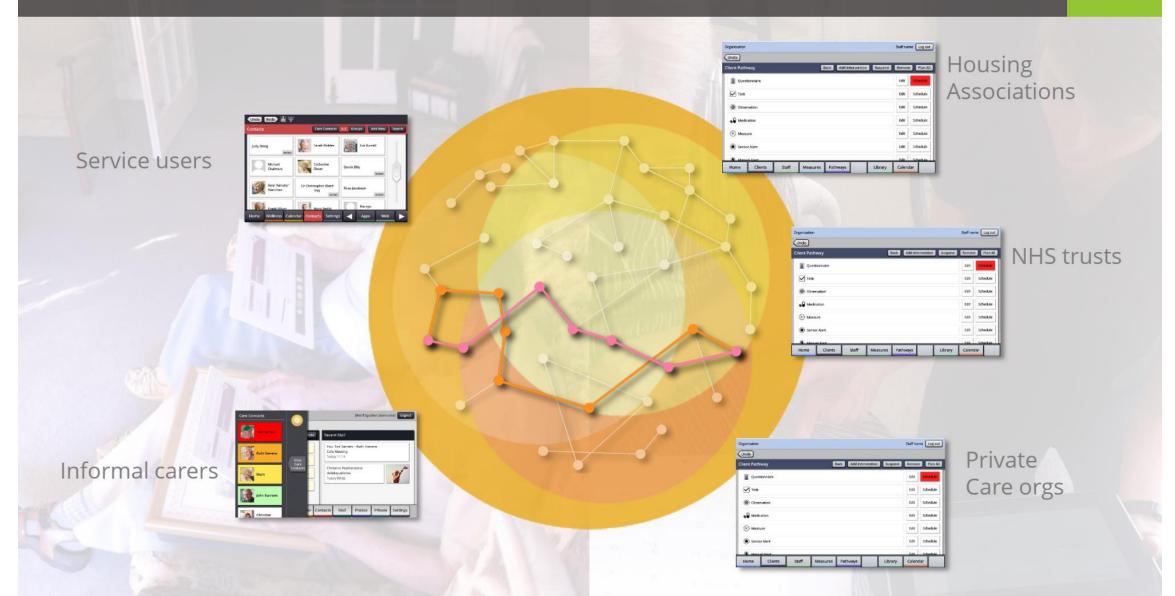
Insight | The solution needs to support multiple communication types



Person to person / Sensor to database(s) / pers to org / org to org

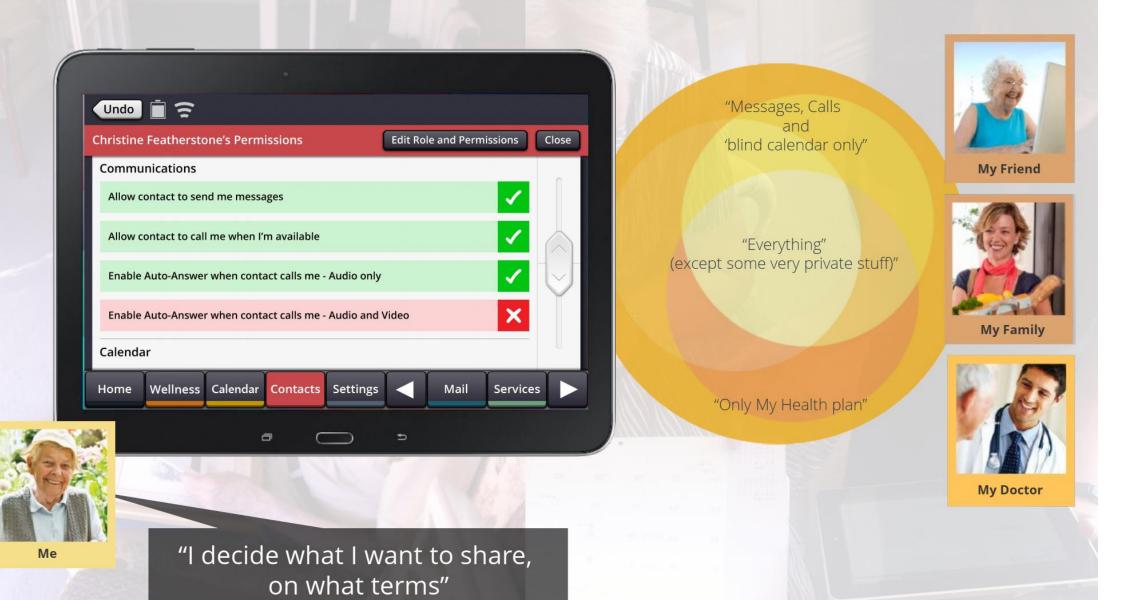


Both professionals and consumers crave simplicity

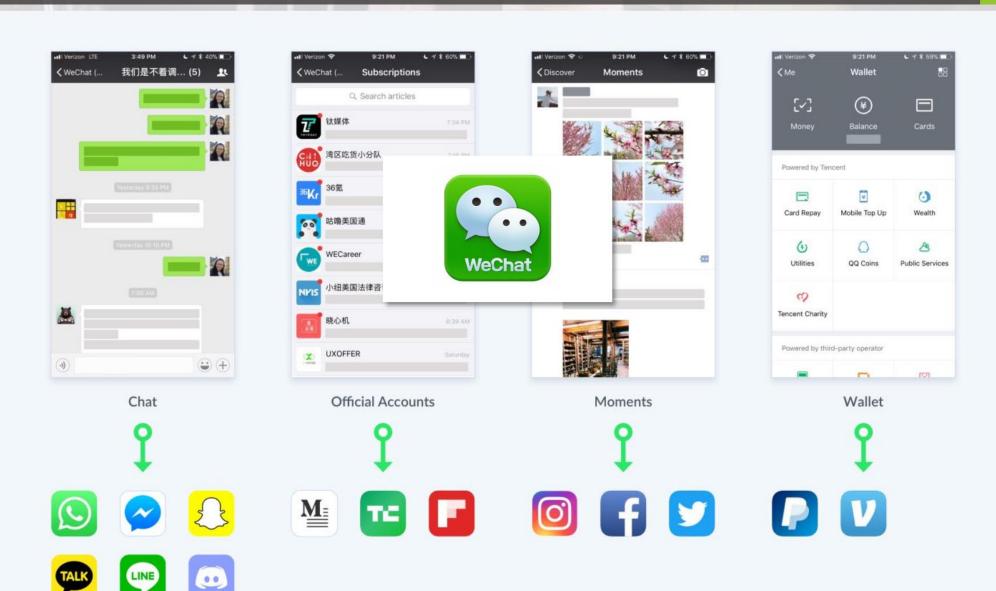


Real-time, peer-to-peer, block-chain, managed, across multiple servers

Convright Alloy Ltd 201



Insight | this is entirely possible, someone just needs to ask



Call to action: create a body to take control and deliver



OR



Big things will happen, if you don't act, they will help others more than you







Contents

Who are ENGIE

Touchpoint

Cyril

Next Steps

Who are ENGIE?

Innovators in Energy and Services Shaping Places

ENGIE UK in numbers

£3.8bn

UK turnover

60km

Heat network

2GW

Thermal production

5GW

Power generation

80MWe

Critical standby diesel power

25m

m² of space managed

27,000

Customer sites

21

Major NHS Trusts

20,000

Employees

240MWe

Combined heat and power

£200m

invested in energy schemes

£700m

Managed lifecycle fund



ENGIE Places & Communities

350,000

Homes refurbished and made more energy efficient in the last ten years

Invested >£150m

To tackle fuel poverty

Saved 60,000 tonnes of CO₂

Every year

£1 billion

Regeneration pipeline

Provide district energy to 8 major cities

250+ educational facilities managed

15 major facilities management

and business services with local authorities in UK & Ireland

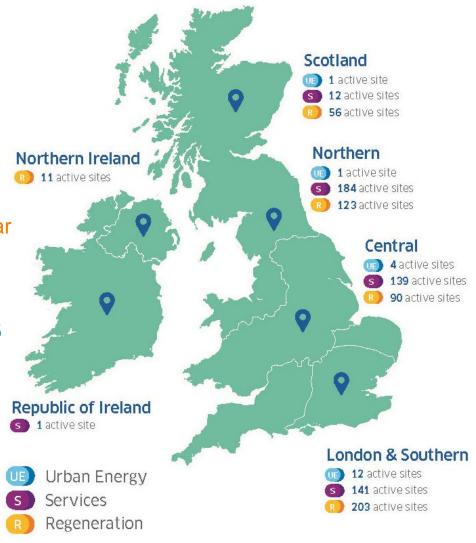
Delivered over 4,000 units

of Extra Care housing

250,000 responsive repairs

Carried out to properties each year

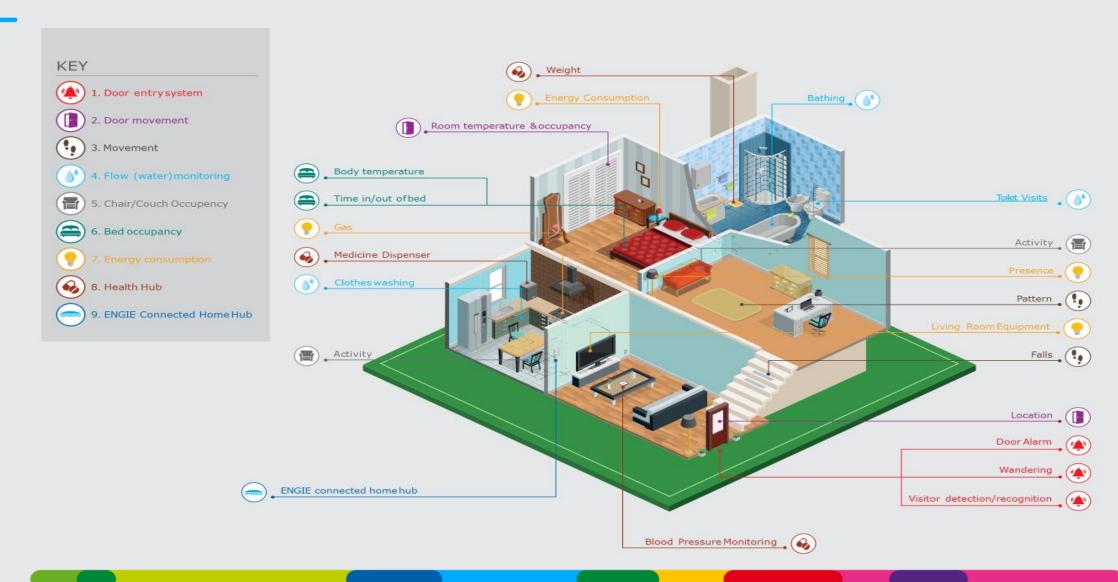
Managing the services for 35 healthcare sites



Touchpoint

Pilot - Healthy at Home Solution

Touchpoint



Cyril

Live Application NHS compliant



NHS – Risk Assessment



Risk Assessment

Has the patient deteriorated to either skin grade 3/4 or multiple grade 2 from healthy unbroken skin since the last opportunity to assess / visit?

YES

e.g. record of blnching / non-blanching erythema / grade 2 progressing to grade 3 or more, or multiple 2 or more grade 2).



e.g. no previous skin integrity issues or no previous contact health or social care services.

Has there been a recent change, days or hours, in their clinical condition that could have contributed to skin damage?

e.a. infection, pyrexia, anaemia, end of life care (Skin Charges at Life End), critical illnes



Change in condition contributing to skin damage



No change in condition that could contribute to skin damage

Was there a pressure ulcer risk assessment or reassessment with appropriate pressure ulcer care plan in place and document?

In line with each organisations policy and guidani



Current risk assessment and care plan carried out by a health care professional and documented appropriate to patients needs



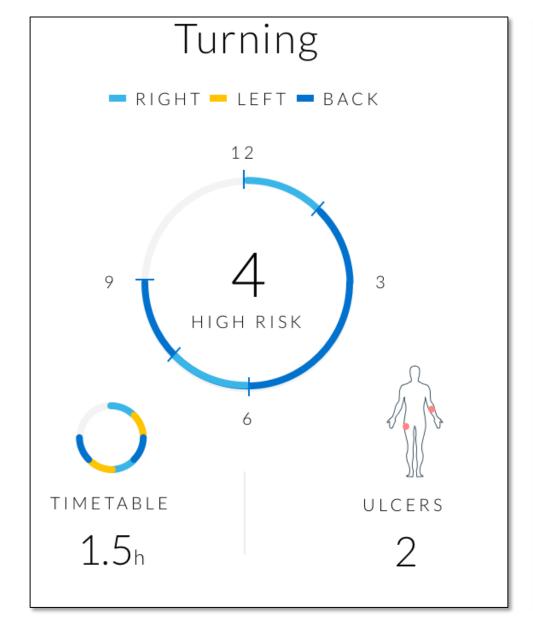
Risk assesment carried out and care plan in place documents but not reviewed as person's needs have changed

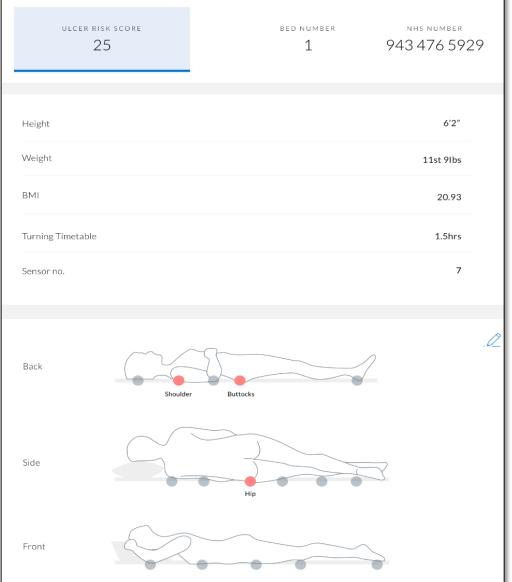


No or incomplete risk assessment and / or care plan carried out

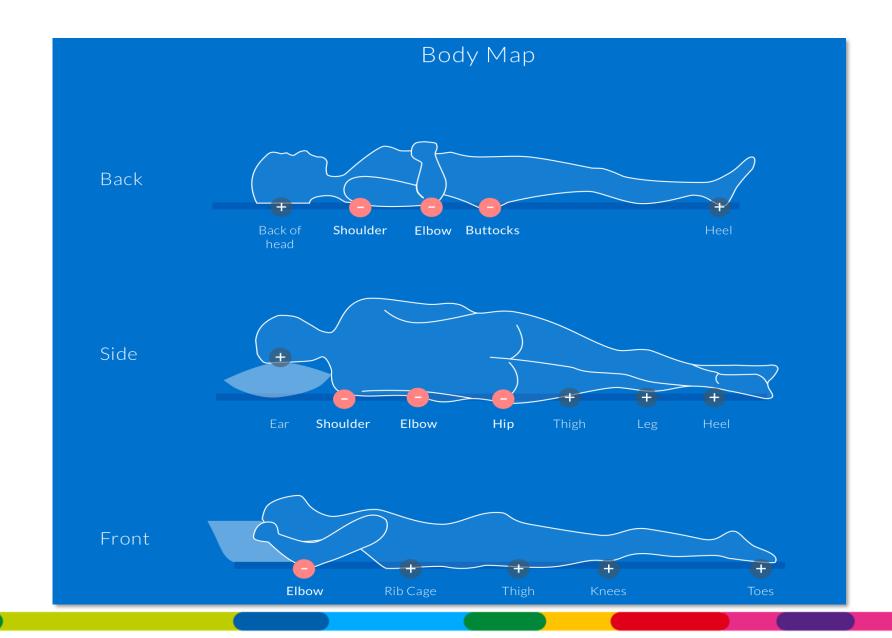
Add Evidence

Cyril





Cyril



Next Steps

Validation and delivery

Next steps

- More research and full delivery with CNWL
- Integrate into LIFEstyle by ENGIE optional services
- Introduce to Adult Social Care and Extra Care housing partnerships



