

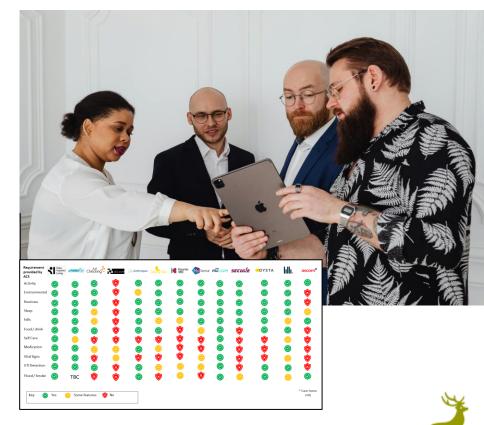
# Background

- In 2019, Hertfordshire County Council outlined its vision to use modern digital technology to transform the way that care services are provided and support Hertfordshire's residents to live healthy and fulfilling lives.
- This digital strategy recognised the need to think differently to help address financial challenges in local government
- A dedicated Assistive Technology Team was established to underpin the delivery of the strategy's ambitions.
- In depth research and analysis led us to develop our own solution in Data Inspired Living
- Continued development, iteration and a desire to share our innovation brings us here today



## Co-produced and developed in house

- Extensive competitor research revealed what we wanted and needed to support our residents was not available
- Wanted something unique to Hertfordshire County Council that would support practitioners: a digital tool to improve their practice and crucially support and improve outcomes for residents and support our Connected Lives framework
- Shared inputs from practitioners to iterate, build and test the Assistive Technology solution.





## Our AT solution



Data Inspired Living is a digital tool for social care practitioners to use as part of care planning for the residents we support.

It consists of an online dashboard, which provides a view of residents' routines at home using various small, discreet sensors that are placed around the home that help to build a day to day picture of someone's normal routine.



## LGC Awards 2024



Shortlisted for LGC Awards in 2 categories - Digital Impact and Innovation

- Over 900 entries for 22 categories
- Presented DIL to a panel of judges with great feedback
- Winner of Innovation Award



The judges were thoroughly impressed with their approach of co-producing technology that is adaptable and scalable, showcasing a true learning culture aimed at continual improvement.

The judges said their dedication, passion, and commitment to innovation serve as an inspiration to us all.





# Data Inspired Living Equipment



Hub, Power Supply and Data Stick



Contact Strips



Smart Switch



Multi Sensor



Door Sensor



Toilet Flush Kit



Bed / Chair Occupancy Kit

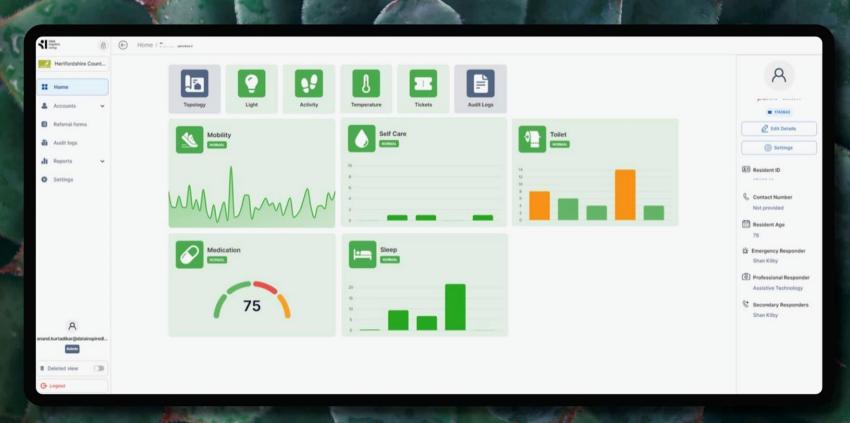


Medication Dispenser

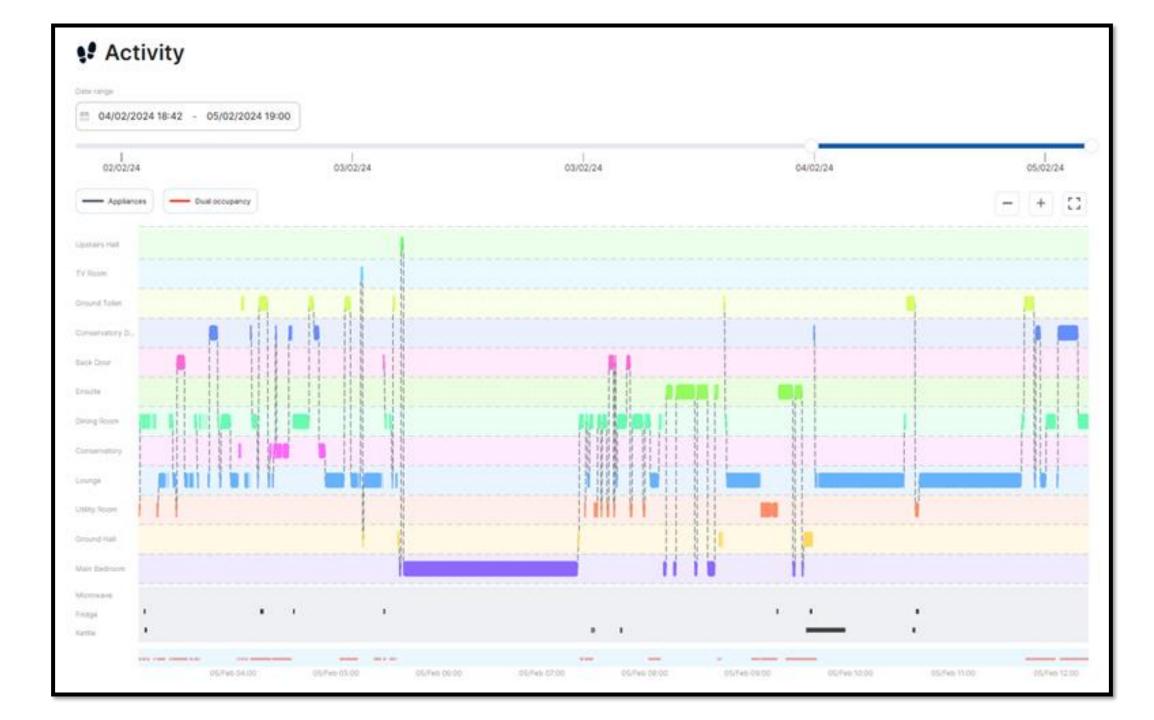


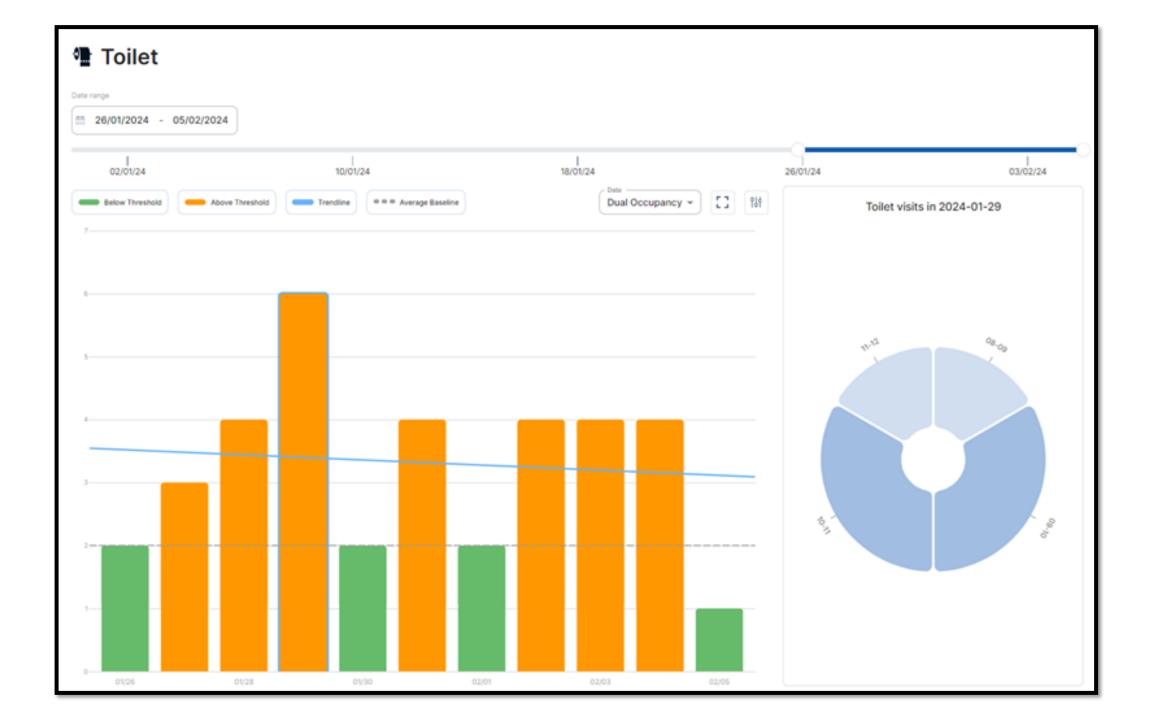


# Data Inspired Living Dashboard











# Improved outcomes for residents and benefits for the county council



#### Residents

- ✓ Maintaining independence
- ✓ Remaining at home
- ✓ Positive impact on health and well being
- ✓ Reduction in homecare commissioned hours

### **Hertfordshire County Council**

- ✓ Cost savings by preventing a move/delay to a residential home
- √ Reduction in ambulance call outs
- ✓ Support frontline workers in creating time efficiencies





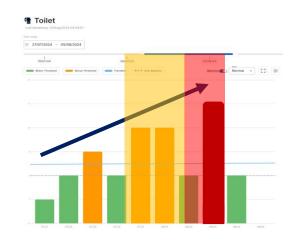
### Preventing hospital admission





Jennifer is an 86-year-old lady who lives on her own. She experiences recurrent urinary tract infections (UTI's) and this has previously resulted in hospital admission. This example shows how a recent UTI was identified.





Alerts were received at the point mobility showed a sharp decline and toilet use increased, indicative of an infection settling. An

AT practitioner called Jennifer and spoke with her and Tina. Tina said she would call the GP and check for a UTI. Antibiotics were prescribed following this and Jennifer made a quick recovery.

#### Intervention

Motion sensors in all rooms
Smart plugs on microwave and kettle
Fridge sensor
Front and back door sensors
Toilet flush sensor
Access to the carer's dashboard

#### AT also supports Jennifer by:

- Providing reassurance help is on hand when needed
- Access to a carer's dashboard for her sister which also provides reassurance
- Identification of changes to routine or pattern and alerts to highlight these
- AT can be personalised to the person and relevant sensors installed
- Identifying issues has been able to prevent Jennifer experiencing acute symptoms of a UTI and helping prevent further hospital admissions

#### **Outcome**

Resident feels safe and supported
No further hospital admissions
Reassurance for her and her sister
Early identification to resolve issues
Automatic alerts generated
Health and wellbeing maintained

### Using AT as standalone care





Donald is a 66-year-old man who lives on his own. He doesn't have any family support and is very independent. This example shows how we supported with a recent incident.



# AT also supports Donald by offering choice and control in the way he is supported:

Donald is not unique in not wanting formal care to support him at home and he is very independent and enjoys a good social life. There are concerns about self-neglect and issues relating to severe depression that would impact severely on Donald, were he not able to maintain a status quo with how he lives.

#### Intervention

- Motion sensors in all rooms
- Smart plugs on appliances
- Door sensor
- Fridge sensor

#### **Outcome**

Resident happy with service provided Personalised to suit his needs Early contact to support when needed Health and wellbeing maintained

An alert was received to highlight that Donald's system was inactive. Donald's electricity had run out and he was unable to top up his emergency credit. The AT team had received an alert showing the site was inactive. Donald was supported to get his electricity supply back in place, have hot water for a shower, use his kitchen appliances and continue with his normal routine.







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# Reassurance for family





- Provides evidence that the person they care for is safe to remain at home
- Reduces pressures on family carers and improves quality of life
- Allows return to normality after hospital visits or illness
- Helps to avoid carer breakdown and stress





## Support for professionals



- DIL has been co-produced by practitioners for practitioners
- Another service as part of toolkit to meet residents needs

"The thing I love most about my job is being able to keep people in their homes and have a decent quality of life. I like that AT can ensure that people are well protected and can live their lives as they choose."







# Continuing the journey



- We have the support of our Members and Senior Leadership team both in funding and commitment to continue our BAU offer as well as exploring commercialisation.
- Reaching out to other Local Authorities to share our offer for further improvements and collaboration and to work with us on a trial basis.
- Continuing to develop the offer, reach more residents via different pathways and reach out to the voluntary sector.

DIL is embedded in HCC's digital strategy and recognises the role technology plays in addressing financial challenges







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