AURA

Independent Living

Life made easier, everyday

A personal digital assistant and companion,
with integrated welfare monitoring.



EVERYDAY SUPPORT. A MORE INFORMED PICTURE.

Designed to make daily life easier and help families and care providers understand when support may be needed.

Expanded edition / 20 use cases. Working MVP; broader capabilities in development.

01 / EVERYDAY LIFE

Support built around the person

People want to remain independent, with help that fits their routines. AURA brings everyday digital assistance together with welfare awareness, so the person receiving support remains central.

THE INTENDED BENEFITS

Residents

Easier access to information and everyday assistance, with support shaped around personal routines and preferences.

Families and carers

Relevant information, shared with permission, to help them understand changing circumstances between visits.

Care providers

A more connected view of daily wellbeing to inform follow-up and help teams decide where attention is needed.

A DAY WITH AURA

Illustrative scenarios for the planned service. Availability depends on the agreed scope, connected devices and validation.

01 Everyday assistance

Ask about an appointment, find useful information or receive a reminder for a daily activity.

02 Awareness of routine

An unexpected change in morning activity could prompt a check-in, using the information available.

03 A comfortable home

Environmental readings could help identify unusual indoor conditions or inform connected home controls.

04 Keeping people informed

Where a concern needs follow-up, an agreed notification could reach an authorised family member or care team.

These are intended benefits and use cases. Measured improvements in independence, care outcomes or resource use have not been established.

02 / THE CONNECTED PLATFORM

Several sources. One personal context.

AURA is designed to interpret information together, in the context of an individual's routines and circumstances. The architecture connects four layers, each with a distinct role.

THE FOUR LAYERS

01	**Digital Assistant** The personal interface	Natural interaction for information, reminders and everyday assistance.
02	**Sentinel** The intelligence	Interprets situations and determines an appropriate response for the individual.
03	**Safety** The analysis	Evaluates information and patterns to identify situations that may need attention.
04	**Awareness** The connections	Brings together available device, sensor, home and contextual information.

THE POTENTIAL DATA SOURCES

Person & routine

Preferences, appointments, interactions and daily activity.

Home & environment

Occupancy, movement, temperature and home system events.

Wellbeing & context

Available wearable data, sleep, activity and local conditions.

Architecture describes the intended design. Each data source and automated response requires a compatible integration, permission and testing. The full combined service remains in development.

03 / THE USE CASES

Everyday assistance & wellbeing

The defined service combines useful daily assistance with awareness of activity and wellbeing. These eight use cases describe the intended experience as the service develops.

EVERYDAY ASSISTANCE

01 Daily Personal Assistant

Ask questions, find useful information and get help organising everyday activities through natural conversation.

02 Appointments & Reminders

Receive prompts for appointments, scheduled visits, medication times and other important activities. A reminder does not confirm medication has been taken.

03 Personalised Information

Access weather, local news, transport updates and information relevant to personal interests and preferences.

04 Natural Voice Interaction

Interact through a conversational voice interface and digital avatar, reducing the need to navigate menus.

HEALTH & WELLBEING

05 Biometric Monitoring

Review available readings from compatible devices, such as heart rate, blood oxygen or temperature, for changes that may merit attention.

06 Sleep & Rest Analysis

Explore changes in sleep duration and rest patterns using the information available from connected devices.

07 Activity & Mobility Monitoring

Review movement and activity over time to help recognise changes in everyday physical behaviour.

08 Wellbeing Pattern Recognition

Consider trends across activity, biometric and environmental information to identify changes that may call for a human check-in.

Defined use cases in development / planned. Availability depends on the agreed scope, compatible devices, permissions and testing. These descriptions do not establish validated outcomes.

04 / THE USE CASES

Safety, awareness & home comfort

Connected information could help identify changes around the person and their home. These eight use cases depend on suitable devices, agreed rules and validation in the intended setting.

SAFETY & AWARENESS

09 Stumble & Fall Detection

Identify potential stumbles or falls and raise an alert for follow-up. Earlier stumble-alert work informs this use case; current performance requires validation.

10 Unusual Activity Detection

Recognise a departure from an established routine, such as a later-than-usual start to morning activity.

11 Location Awareness

Use available, permitted location information to add context to assistance and recognise unusual movement patterns.

12 Proactive Risk Detection

Combine signals from several sources to flag a possible concern for review. Predictive accuracy remains to be established.

HOME COMFORT & ENVIRONMENT

13 Indoor Environment Monitoring

Review available temperature, humidity, air quality and lighting readings to understand conditions in the home.

14 Home Control & Automation

Help manage compatible heating, lighting and home devices through voice interaction or agreed automation rules.

15 Environmental Forecasting

Combine weather forecasts with indoor readings to anticipate changes in comfort and consider an appropriate response.

16 Local Environmental Awareness

Bring relevant weather warnings, outdoor air quality and extreme-temperature information into the person's daily context.

Defined use cases in development / planned. Availability depends on the agreed scope, compatible devices, permissions and testing. These descriptions do not establish validated outcomes.

05 / THE USE CASES

Family, carers & care providers

The final four use cases focus on keeping authorised supporters informed and helping them decide when a follow-up may be appropriate.

FAMILY, CARERS & CARE PROVIDERS

17 Family & Care Provider Awareness

Share relevant wellbeing information with authorised family members and care teams, within the permissions agreed for the individual.

18 Intelligent Alerts & Notifications

Direct a notification to the appropriate person when a situation meets agreed criteria for attention.

19 Personalised Care Profiles

Shape preferences, routines, assistance and monitoring around the individual's circumstances and agreed support needs.

20 Connected Wellbeing Insights

Bring biometric, environmental and behavioural information together to give authorised supporters a more connected picture of daily wellbeing.

HOW THE INFORMATION COULD HELP

For example, a change in sleep and morning activity, considered alongside home conditions, could prompt a check-in. The support team would review the context and decide what to do next.

AGREED AROUND THE INDIVIDUAL

A pilot would define what information is collected, who may see it, which situations trigger a notification and who follows up. Personalised care profiles and automated alerts remain part of the development scope.

All four use cases on this page are in development / planned. The connected example is illustrative and does not describe an operating or clinically validated service.

06 / DEVELOPMENT & NEXT STEPS

A foundation for independent living

AURA has a working minimum viable product (MVP). The next stage is to develop and validate selected use cases with care providers before wider commercial deployment.

BUILT & TESTED FOUNDATIONS

Working MVP

The core platform, architecture and technical foundations are established. Individual use cases and intelligence capabilities continue to develop.

Earlier prototype deployment

An earlier dementia-focused prototype, developed and deployed in collaboration with the NHS, included live stumble alerts for care staff.

The earlier deployment does not establish the performance of today's AURA service or validate its wider planned capabilities.

IN DEVELOPMENT / PLANNED

Broader assistant functions and device integrations; combined biometric, activity and environmental analysis; personalised pattern recognition; and automated welfare notifications and home responses.

Feature availability, detection accuracy and operational benefits require validation for the intended setting.

A PROPOSED PILOT WITH YOUR TEAM

01	**Agree the scope**	Choose residents, use cases and the intended support arrangements.
02	**Configure the service**	Agree permissions, connected data, alert recipients and escalation steps.
03	**Evaluate in practice**	Review usability, alert relevance, reliability and staff workload before expanding.

Explore an AURA pilot

digital@hbt.one

www.HBT.One