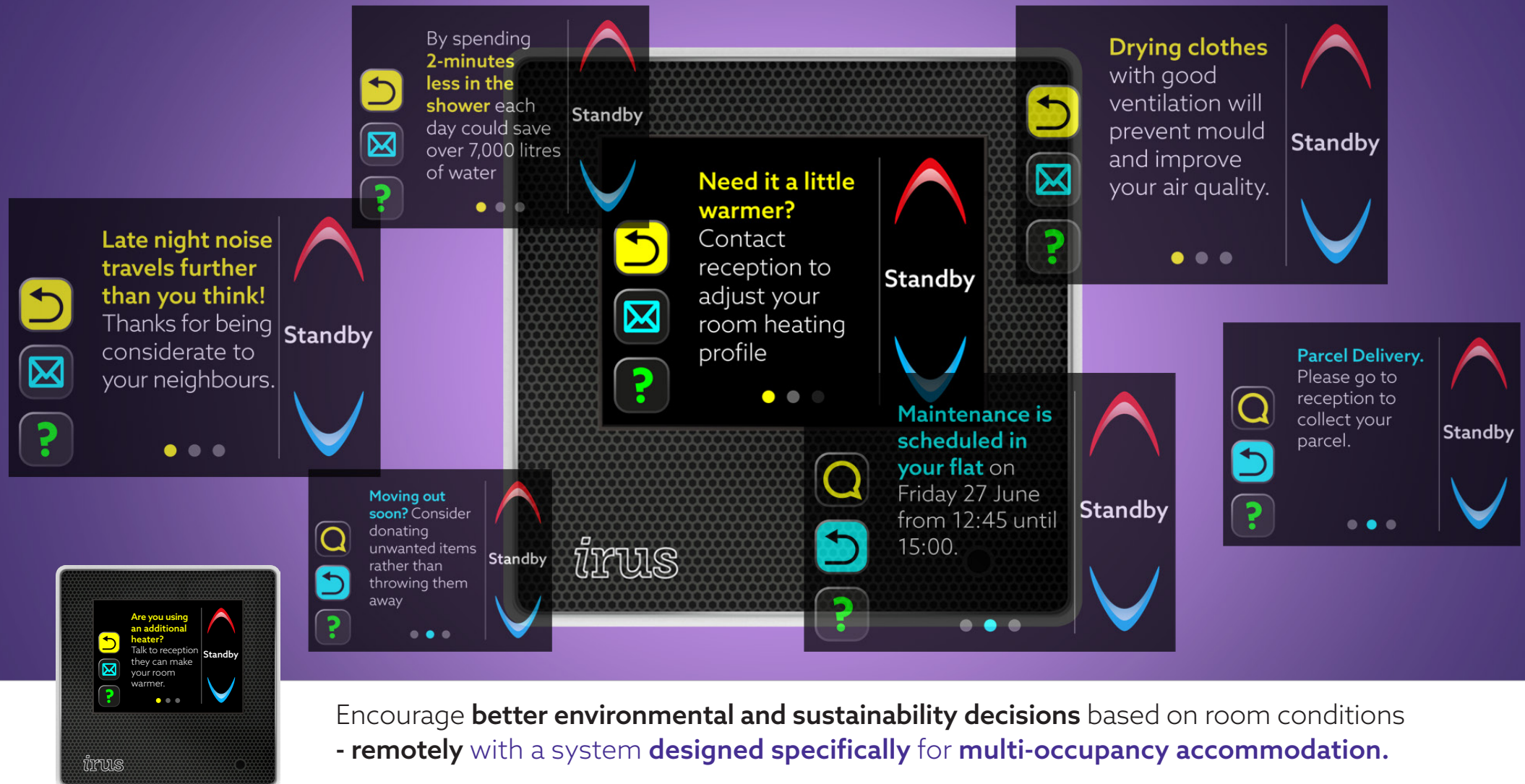




Control.
Visibility.
Intelligence.

irus Behavioural Sustainability Initiative



Encourage **better environmental and sustainability decisions** based on room conditions
- **remotely** with a system **designed specifically** for **multi-occupancy accommodation**.



irus Behavioural Sustainability Initiative

ControlSensor
Installed in every room.



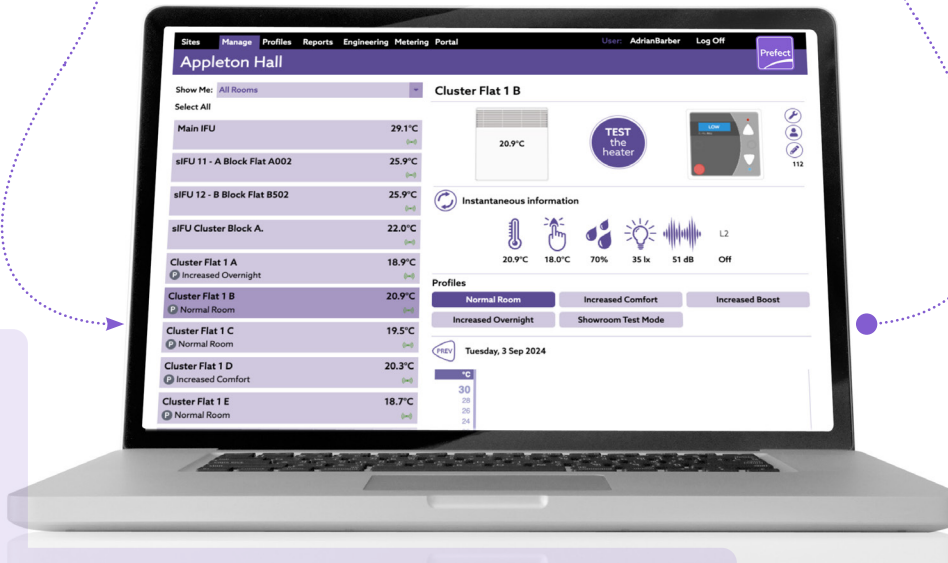
irus Portal
Accessed via a secure internet connection.

1

Data from individual rooms is transmitted to the portal where it is analysed. Unusual levels and/or activity is recognised.

2

Nudges and Messages are generated, based on the environmental conditions within a room or by the behaviour of the occupant.



irus Modules

SpaceHeat

Controls heat sources and monitors temperature, CO₂, sound, humidity, occupancy, and light.

SmartTank

Delivers reliable and safe water and measures temperature and volume of consumption.

UtilityMeter

Measures the flow of energy and water to rooms and reports back to the portal.

WaterSense

Measures temperature and flow of water within supply pipes. Detects faulty toilet cisterns.

LeakDetect

Identifies escape of water and automatically alerts operations teams to location and intensity.

HobSensus

Automatically shuts-off power supply if cooking on hobs is left unattended.

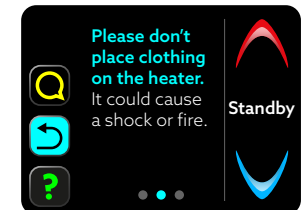
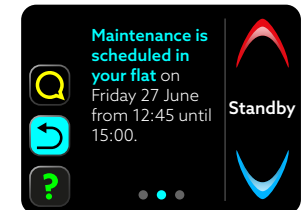
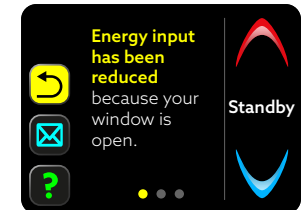
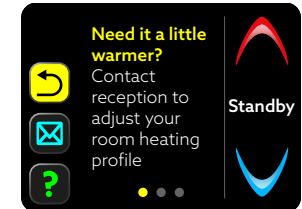
Controller

Optimiser

Investigator

Reporter

The four bespoke software tools within the portal analyse data, looking for anomalies and abnormalities. These are addressed automatically by sending out notifications.



3

Useful, helpful, or reassuring notifications are then sent to individual rooms or broadcast to entire estates with information, advice, suggestions, instructions, or warnings.



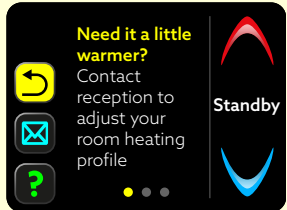
irus Behavioural Sustainability Initiative

Data collected from the **ControlSensor** in each room is analysed automatically and appropriate nudges, **relevant to a room's environmental conditions or occupants behaviour** within, are sent to individual residents.

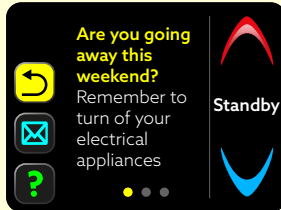


Messages are preloaded on to the Portal and can be **sent to individuals or broadcast to the entire building/campus**. Messages are infinitely customisable. Along with text, QR codes can also be displayed

Examples of behaviour that generate Nudges



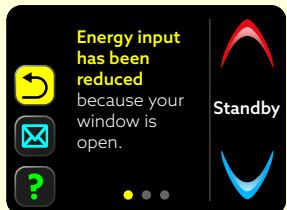
Frequent use of the Boost button suggests the occupant requires a warmer heating profile



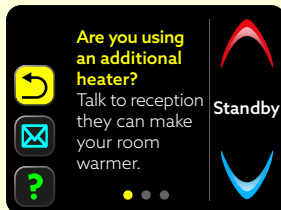
Occupancy detection suggest when a room may be vacant for extended periods



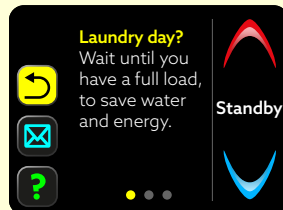
High water use will trigger a nudge to consider reducing shower length



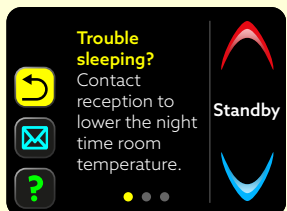
When a window is opened while the heater is active, heat input will be reduced. This reassures the occupant that the heater is working correctly



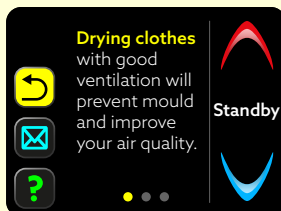
A Plug-in heater has been detected these are prohibited due to safety risk and excessive energy use.



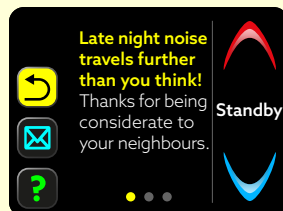
High water use will trigger a nudge to consider how frequently washing appliances are used



Frequent pressing of the 'Down' button triggers a nudge to check the correct heating profile is assigned

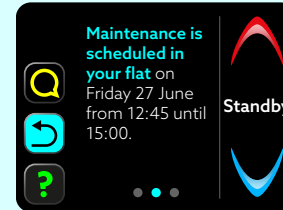


High humidity within a room will trigger this nudge

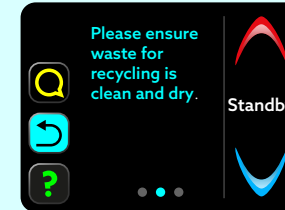


A high noise alert triggers a nudge to consider behaviour regarding noise

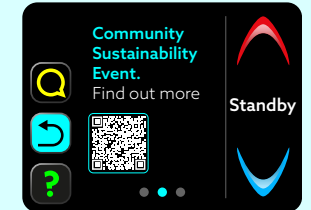
Examples of typical Messages



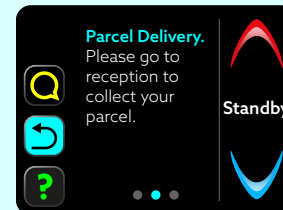
Notifications about operations



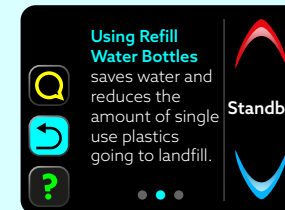
Recycling instructions



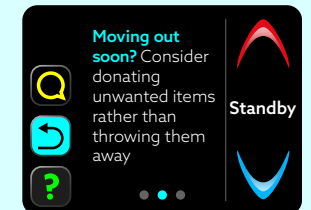
Information about sustainability



Personal notifications



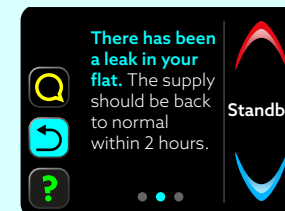
Advice about 'greener living'



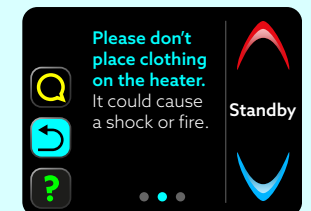
Helpful suggestions



Useful information



Messages of reassurance



Safety warnings

The *irus* ecoSystem

