

IEQ Product – arbn well



buildings don't use energy, people do (Janda, 2011)



healthy buildings more likely to be efficient



engagement promotes demand reduction and efficient operation



satisfaction is

- ✓ subjective
- √ inconsistent
- ✓ driven by perception



difficult to address without

- ✓ localisation
- ✓ personalisation
- immediate suggestions



good energy-efficiency practices can be undone by lack of engagement

Major Components

Continuous and ubiquitous sensing





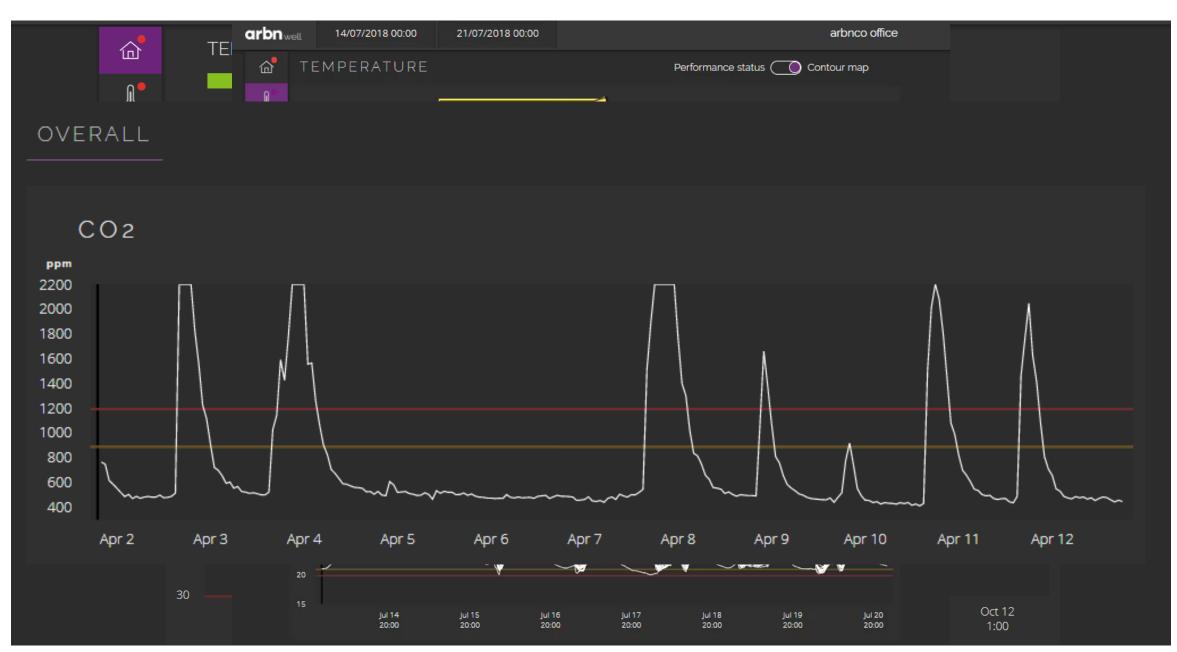
Bespoke **reports** and intelligent **analysis**

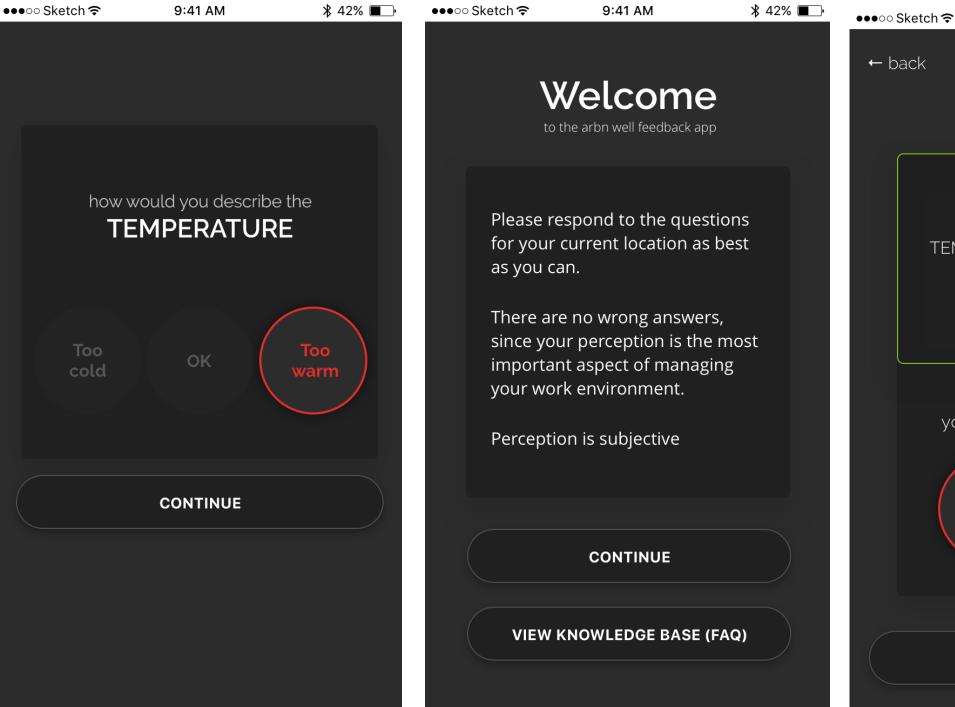
Real-time **visualisation** and customisable **alerts**





Mobile apps for engagement







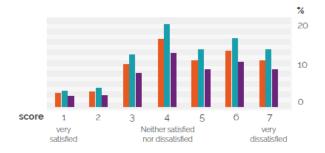
Occupant Engagement

The following is a summary of feedback and the impact of the indoor environment on the occupants.

Feedback

Total number of votes: 100

- Present reporting period
- Last reporting period
- Lifetime average



This graph shows the %age of votes for each score, averaged over all environmental parameters polled (temperature, humidity, light levels). A higher score is better, so if the bars to the right of the midpoint (4, neither satisfied nor dissatisfied) are larger, then the responses were more positive. The votes from this period are plotted along with those from the last reporting period and the lifetime of the building.

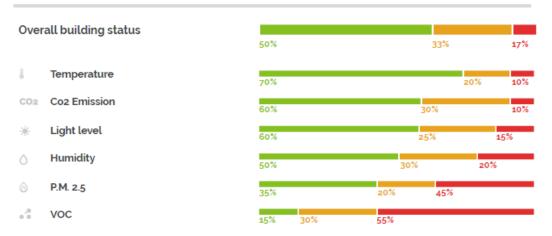
Word cloud present reporting period

smell stuffy uncomfortable storage hot Word cloud

uncomfortable smell cold hotstuffy_{dry}

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General Summary



These bars show the percentage of time the status of each parameter, and the overall status of the building, was either good (green), acceptable (orange), or investigate (red). Only occupied hours are counted, during the period of this report. To see how the overall building status is calculated from the individual parameter statuses, see the FAQs at the end of this report.

The period of this report is 3 months.

The indoor environmental conditions recorded by **86**% of the sensors in your building were **within your chosen limits** for approximately **76**% of the hours of operation. This means that, during the hours of operation¹, it is **likely** that the occupants of your building found the conditions to be optimal for productive work?

Based on the pollutants that our sensors are able to measure, the air quality inside your building during this time was **not** a **concern**, **but there is scope for improvement**? Please see the air quality figures below for details.

There were 15 feedback tickets raised during this period, which is 25% more than the last equivalent period of record and 5% more than the lifetime average for this building. The most common complaints were about light levels while highest levels of satisfaction were reported for humidity.