



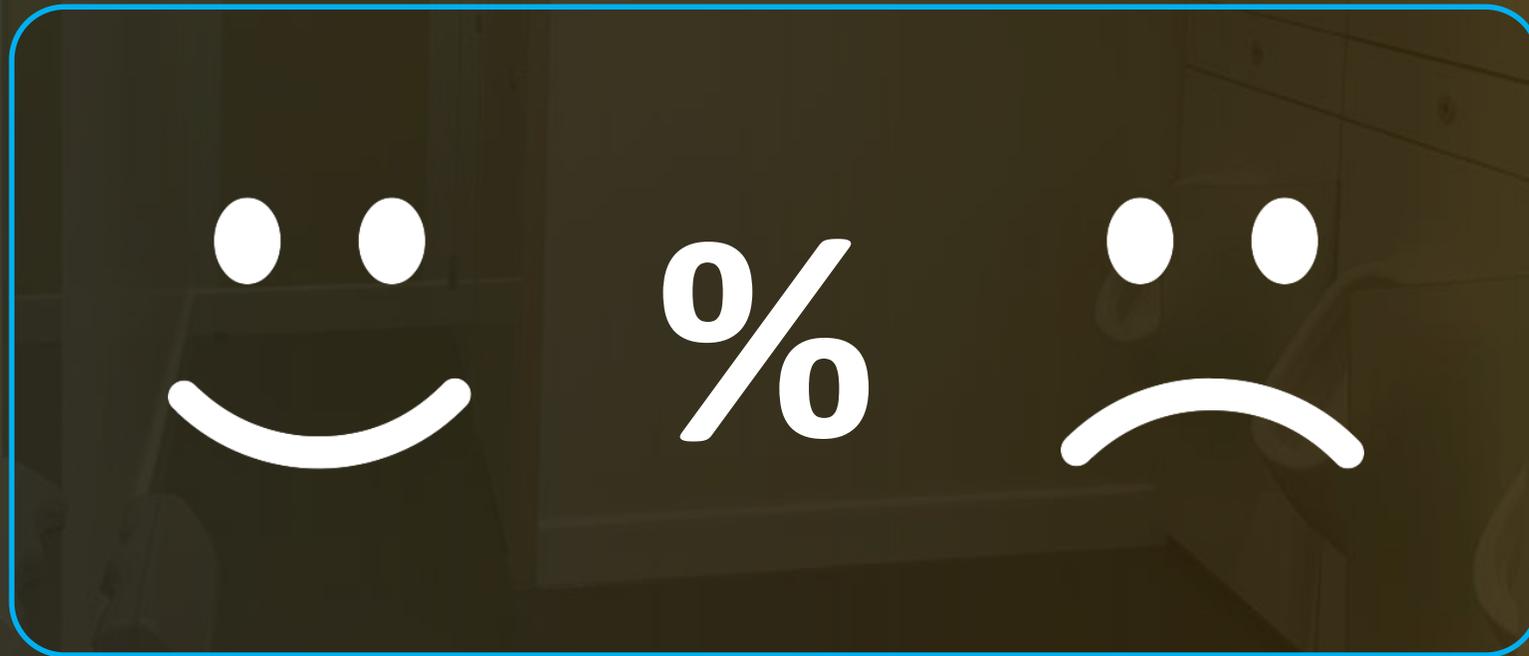
Real-time wireless Building monitoring using Internet of Things (IoT)

April 2019

How can we monitor office comfort level in real-time with minimal disruption to the occupier?



How can we measure usage and satisfaction in Toilets to move to an output-based FM service?



How can we optimise space utilisation by monitoring desk and meeting rooms occupancy?



62%



38%

Internet of Things (IoT) sounds like a great idea but most organisations don't have all the expertise required to put together a solution

Sensors

Networks

Security

Big Data

Application development

Privacy & Compliance

Custom Integration

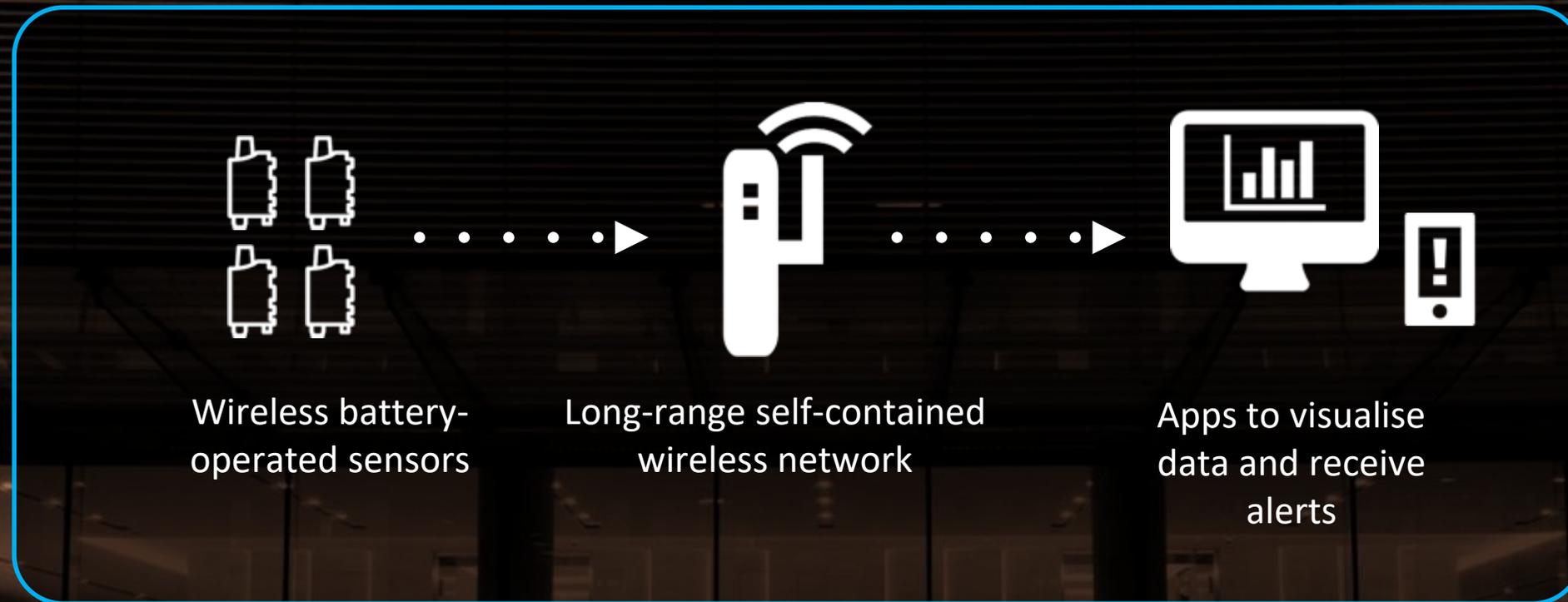
Analytics/AI/ML

Business Domain



Value

Microshare offers complete IoT Smart Building solutions including wireless sensors, dedicated network and data access in a single kit



No IT configuration needed

Easy
1•2•3•4
Deployment



Sensors Arrive

Sensors are delivered pre-activated and ready to install. NO IT configuration needed



Plug In Gateway

Gateway just needs 220V power and connects over a 4G network



Install Sensors

Fix the sensors to desks or walls & record location of each sensor in a spreadsheet



View Your Data

Email the location spreadsheet to Microshare and your dashboards are activated to view your data

A whole range of Smart Building solutions

 Temperature/Humidity

 Desk/Meeting room Occupancy

 Predictive Cleaning

 Predictive Maintenance (HVAC, lifts, etc.) . . . ▶

 Smart Waste

 Water Leak Detection

... and many more...

100's of sensor types

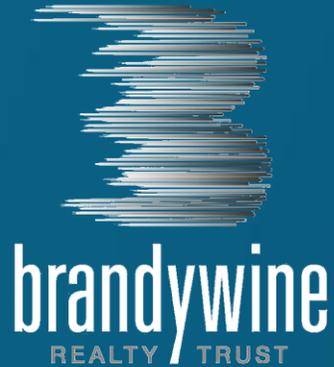
**Long-range self-contained
wireless network**

**Apps to visualise data
and receive alerts**



With Microshare you can expand to a full Smart Building
with the same infrastructure

Clients in FM/Property Management



CBRE



centrica

 **macro**



New
Day



sodexo

Predictive Cleaning testimonial



“Microshare has provided us with a solution that has allowed us to understand the usage of the toilet facilities in an incredibly busy building where occupancy has grown significantly in recent years. The data produced from the IoT sensors has enabled us to **rethink how we schedule the cleaning services** to offer an enhanced customer experience.

We can now clearly see the trend of when demand peaks and have been able to respond by putting a robust cleaning schedule in place that can flex with these peaks. The **automated link to our CAFM system now allows us to respond swiftly to an unexpected peak** when usage exceeds the normal demand.

The **simple installation of customer feedback points** that connect back to our dashboard provides us with real time monitoring of the customer experience and again allow us respond to situations before they escalate.

Both cleaning and security teams can now **electronically record their attendance** by connecting with the customer feedback points. This has enabled us to move beyond the manual recording process and use the dashboard to confirm at a glance that the cleaning schedule is being followed.

Our Client can access our dashboard to give them piece of mind that we are delivering the most effective and value for money cleaning service.”

Ron Dudley-Scales, Operations Director at Mace Macro

