



Executive Introduction

2022



Who uses IoT for Buildings

Properties exist in every vertical!





Plug your
Buildings into
your **Business**

Industrial IoT for buildings that works out of the box
anywhere in the world

Difficult and Expensive

Industrial and Building Automation solutions are capital intensive, require specialist installations and lots of cabling. This usually means they are put in when buildings are constructed and are impractical to retrofit. In addition these technologies are typically not connected (easily) to internet based systems. This means that **90% of the buildings** used by businesses have little or no automation and practically **zero visibility of critical building system health.**



£1000

per point
to purchase install and
commission

Simple and Cost Effective

- A battery powered wireless sensing capability inside a hardened industrial grade package.
- One click commissioning with any smart-phone.
- Automated internet connected dashboards and sensor alerts

Urban.io provides light industrial and commercial monitoring capabilities for **1/10th** of the price per point of traditional solutions.

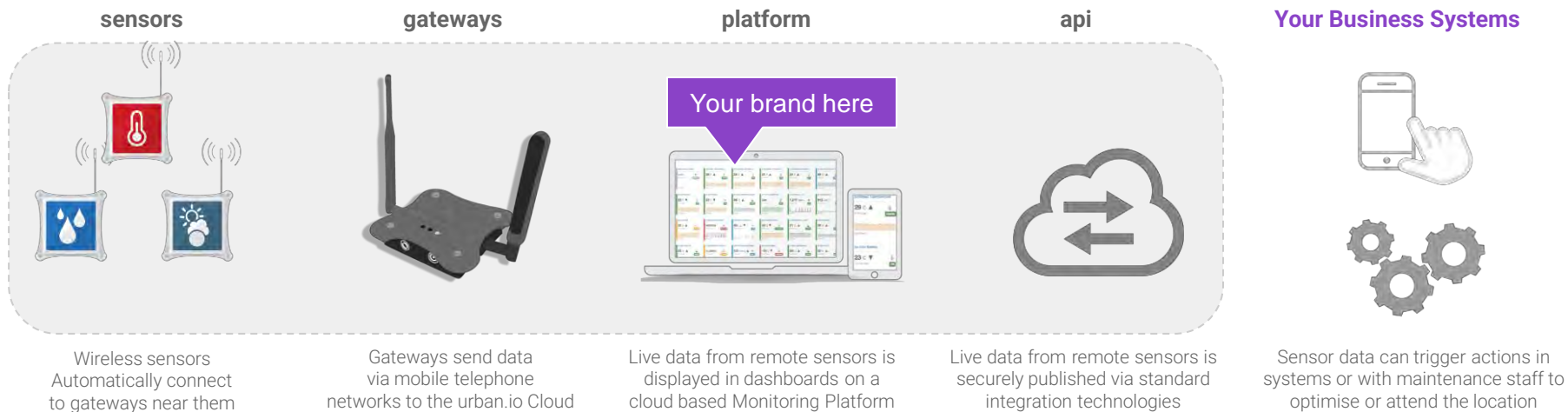


£5

per point
to purchase install and
commission

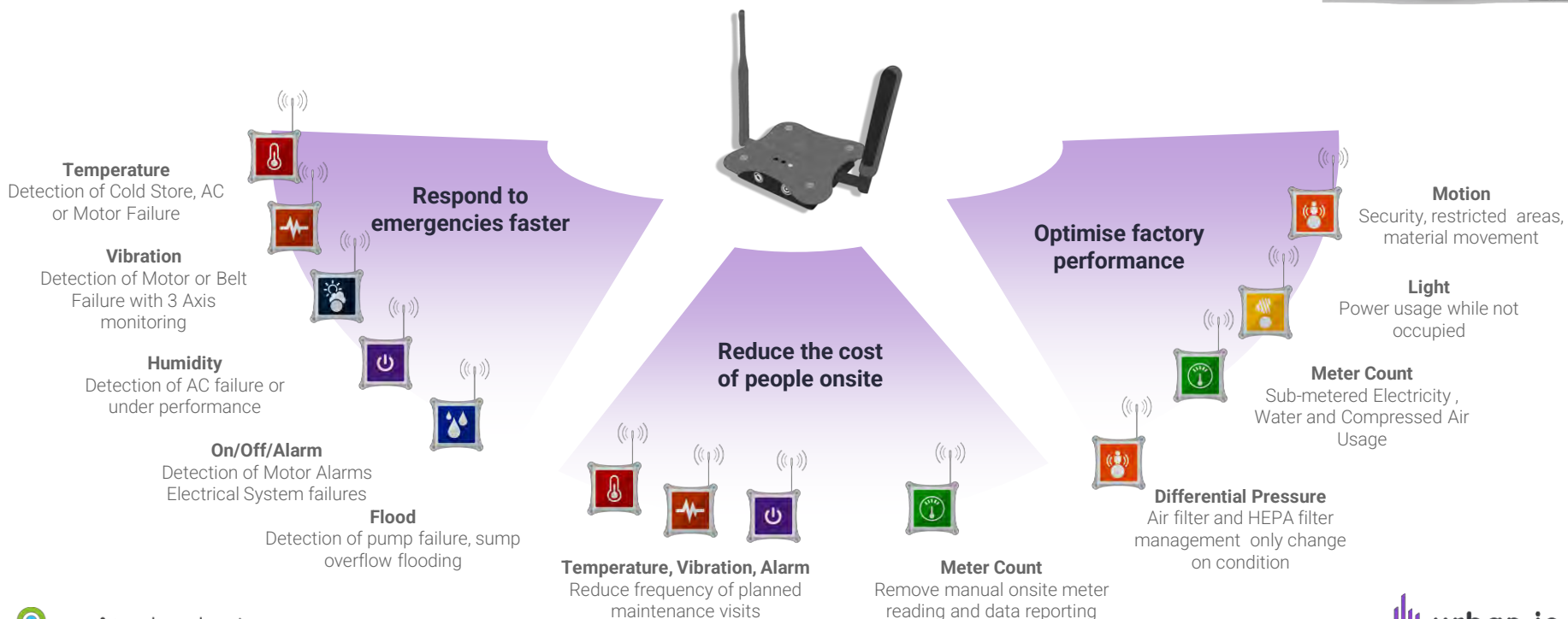
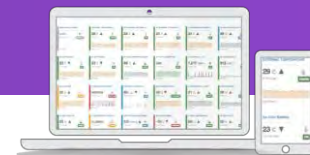
What does urban.io do

Urban.io provides a range of low cost, industrial grade IoT devices that provide real time data from building systems, spaces and other remote field assets. Data from these devices is collected and displayed in a monitoring cloud platform as a turnkey managed service which you can brand as your own. Urban.io also provides standard ways to integrate live sensor data into third party business systems.



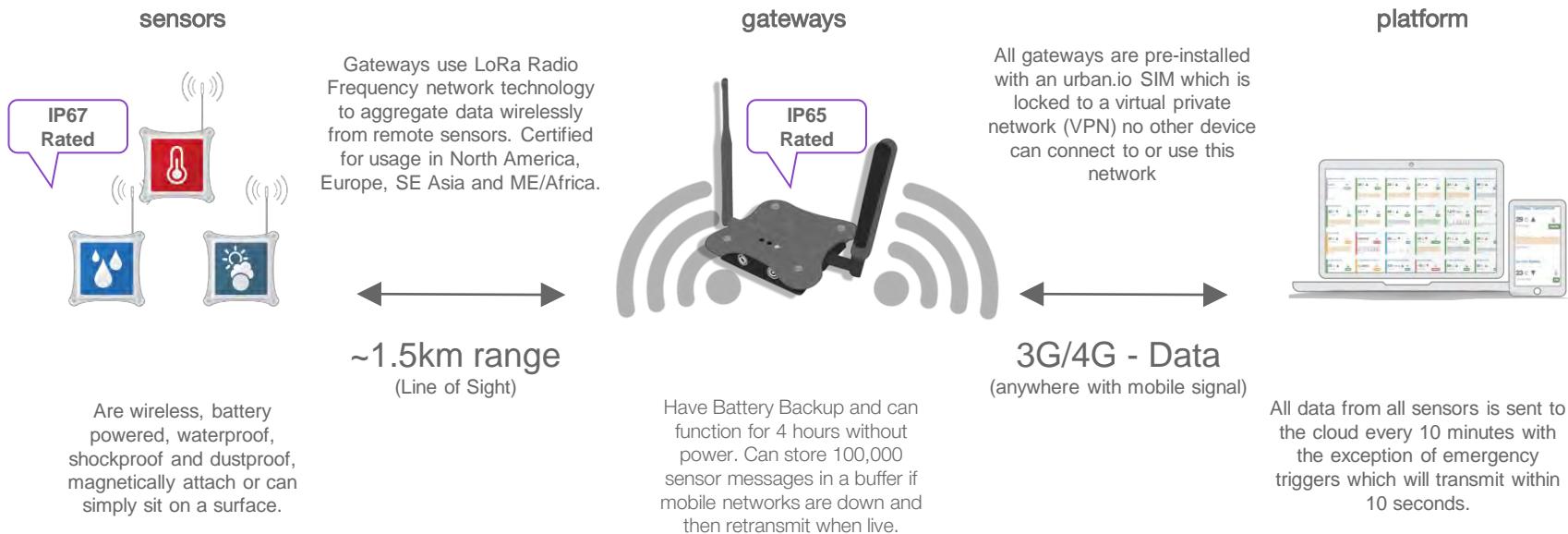
Some practical examples

Our IoT sensors can measure the health or status of a range of systems and spaces within factories



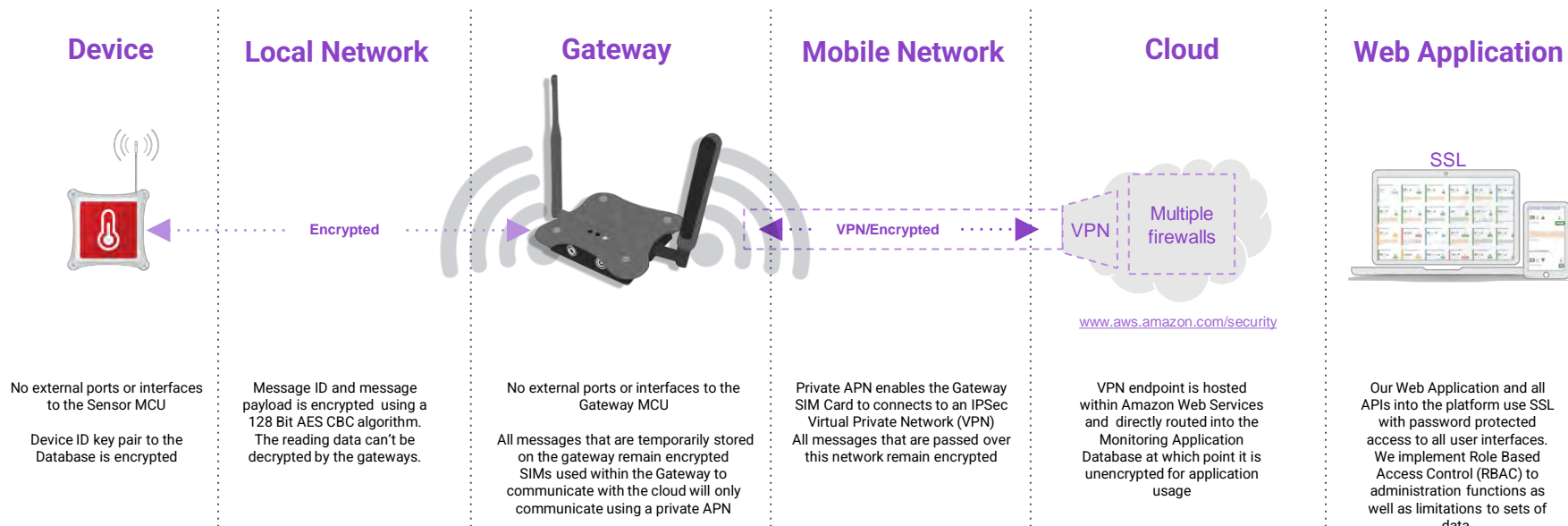
urban.io technology

Our IoT devices are designed for low cost, retrofit solutions in remote locations with automatic setup. We bring our own network which can work in 95% of populated locations globally, indoor or outdoor - out of the box, no customisation required.



urban.io enterprise class security device to cloud

Our IoT Platform has a custom designed security architecture to prevent malicious usage of Sensor Data and or malicious commands being sent to devices within the network.



Sensors



Ruggedised IoT Sensors

1. Measure Temperature, Humidity, Vibration, Light, Motion, Flood, Machines and Meters
2. Send data every 10 mins or immediately on alert event
3. Auto detect and fail over to any Gateways in area

Why are they special:

Industrial Grade specification at a Consumer Price

Simple Installation

- Magnetic feet to snap to surface or into adhesive plate

One Click Configuration

- QR Code scan on mobile phone connect to platform and send data within 1 minute (no skills required)

Outdoor Rated

- IP67 - fully waterproof and dustproof

Resilient to Failure

- 2 year+ battery life
- Moves to Hypersleep mode if no gateways detected in area

Secure

- No external ports, Sensor data is encrypted using 128 Bit AES CBC

Gateway



Ruggedised IoT Gateway

1. Provides local independent network for up to 2000 IoT sensors
2. Roams to 3G/4G mobile network to send data to cloud platform
3. Auto detect and connect all Urban.io sensors in area

Why are they special:

Industrial Grade specification at a Residential Price

Ultra-range

- 500m in Urban and 1.5km in Outdoor environments

Outdoor Rated

- IP65 - water resistant and dustproof

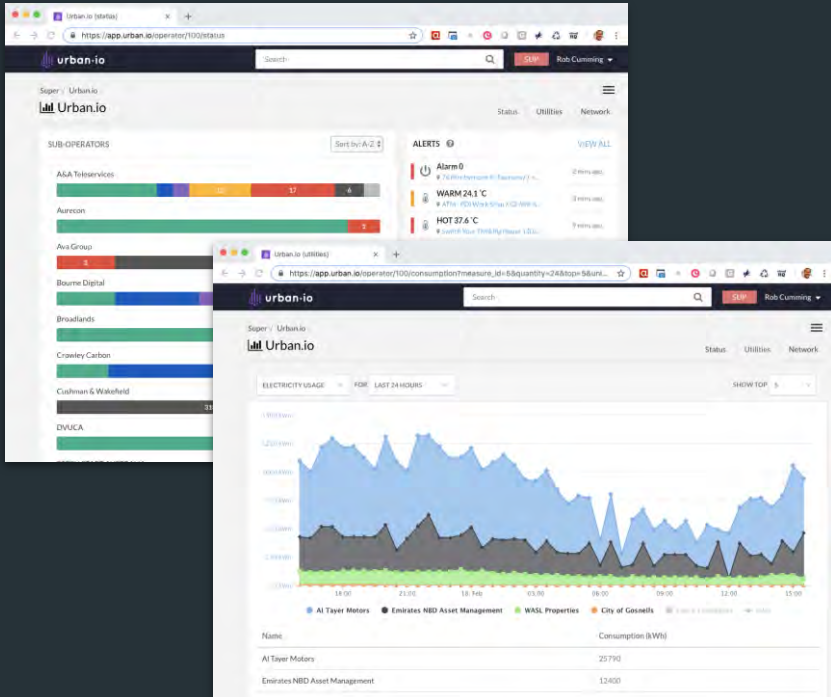
Resilient to Failure

- 2 hour Battery Backup in the event of power failure and reports power loss to operations team
- Can store up to 20,000 device readings in the event of mobile network failure and then restores data once network is restored

Secure

- No external ports, Sensor data is encrypted using 128 Bit AES CBC

Platform



Cloud Sensor Management and Reporting Platform

1. Aggregates all sensor data and displays status and history of all measured variables
2. Customisable Alarm and Alert profiles
3. Optional Configurable Display Dashboards

Why it is special:

Completely Cloud based works on any web enabled devices

Ultra-fast

- Using latest distributed system cloud infrastructure to dynamically search and display massive datasets in sub-second speed

Beautiful zero configuration dashboards

- Automatic layout of commissioned devices into standard dashboards

Resilient to Failure

- Runs in Amazon Web Services in Multiple Availability Zone configuration with distributed self healing service architecture

Secure

- Banking grade web security layer with Role Based Access to all application features.
- All Sensor data is encrypted using 128 Bit AES CBC

APIs



urban.io

Secure Cloud API

1. Standard Public Interfaces to access IoT data
2. Specific Modules to connect to each major Enterprise IT Vendor IOT platform
3. Simple administration to stream data to external Work Management Applications or Enterprise IOT Platforms

Why it is special:

Completely Cloud based; connect and securely transfer data

Simple Configuration

- Intelligent Administration interfaces that remove the guesswork to hook things together

Data in the format that is expected

- Data is scrubbed and only the values and types that are required by the target system are sent, reducing the volume of IoT data that is transferred.

Resilient to Failure

- Runs in Amazon Web Services in Multiple Availability Zone configuration with distributed self healing service architecture

Secure

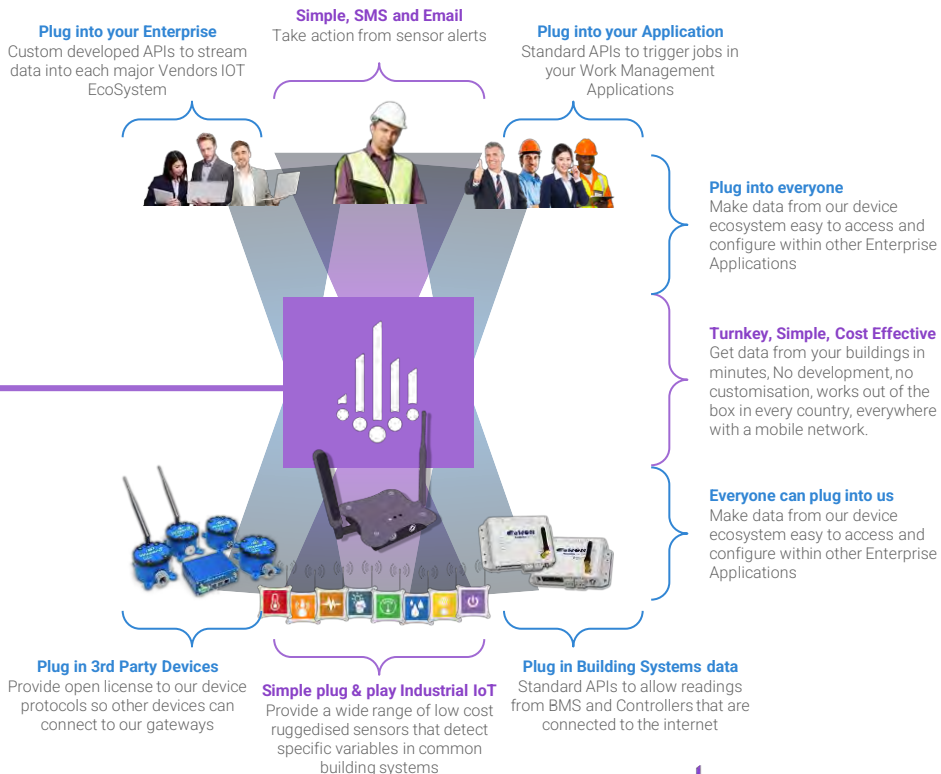
- Banking grade web security layer with password protected API

How we help

“The simplest, most cost effective way to plug your Buildings into your business”



Feed IoT data to everyone who is servicing Commercial Property Owners and Users



Want to plug your buildings into
your business?

Contact: enquiries@urban.io