

TECH OFFER

Data Analytics And Insights Software Platform For Smart Buildings



KEY INFORMATION

TECHNOLOGY CATEGORY:

Environment, Clean Air & Water - Sensor, Network, Monitoring & Quality Control Systems

Green Building - Sensor, Network, Building Control & Optimisation

Green Building - Indoor Environment Quality

Infocomm - Internet of Things & Wearable Technology

Sustainability - Sustainable Living

TECHNOLOGY READINESS LEVEL (TRL): **TRL7**

COUNTRY: **UNITED KINGDOM**

ID NUMBER: **TO174487**

OVERVIEW

This technology offer presents a platform that harvests data from a variety of sources, including Internet of Things (IoT) occupancy and air quality sensors. Data is aggregated and interpreted using the proprietary AI-driven algorithms to provide insights to help building owners and managers foster a safe and healthy indoor environment, save energy and optimise their workplaces occupancy.

TECHNOLOGY FEATURES & SPECIFICATIONS

This platform uses a variety of sensors and data points (e.g., indoor air quality, workspace utilization) to generate insights that help customers to make better-informed decisions.

The features and specifications include

- The patented technology and unique algorithms deliver the missing insights from multiple data streams to provide key context to building/transport management.
- It is a highly interoperable solution and is hardware agnostic so are agile and responsive to the latest developments in IoT hardware.
- It works across multiple space/asset types and is privacy compliant, not relying on cameras, beacons, apps or tags.

POTENTIAL APPLICATIONS

The technology can be deployed in workplaces of various sizes, offices, shared-offices, workspaces. The potential applications include IAQ monitoring, space utilisation insights, energy reduction optimisation and real-time occupancy count.

Adopting a hybrid work pattern means employers will need to understand their changing workspace utilisation to ensure operational and energy costs are not being wasted and identify opportunities for savings. The platform works with a variety of sensors and data points to generate the insights needed for space utilisation optimisation during a time of rapidly changing requirements. This equips employers with the data insights they need to make better informed decisions about reconfiguring their workplaces to respond to hybrid working - such as understanding the reduction in personal workspaces, and the introduction of more collaboration spaces, meeting rooms and breakout spaces.

MARKET TRENDS & OPPORTUNITIES

Market size for the Smart Buildings and Air Quality Markets amounts to \$106 billion dollars.

Building owners and managers lack the data or interpretation tools to manage their buildings based on actual need rather than fixed assumptions. This leads to wasted resources.

Key drivers for market growth include an immediate need to combat the effects of the pandemic by reassuring people that buildings are safe to visit and work in again whilst understanding the changing needs of the hybrid workplace; and an increased impetus for organisations to achieve net zero.

UNIQUE VALUE PROPOSITION

Benefits to customers include

- Healthier air and premises
- Air quality insights, alerts and reports
- Understand workspace and meeting room utilisation
- Save energy
- Decrease carbon footprint