

eBECS SmartWear

Using the power of Azure and the Internet of Things to maximise project and worker visibility, productivity and safety



Total Microsoft Business Solutions
Microsoft Partner of the Year UK 2016

eBECS approach

Working
prototype
developed

Analytics
platform
developed

Management
console and
dashboards built

Microsoft
IoT Suite
hosted

Now live on major
Dubai construction
project

Demo
available for
you to view

Presentation and connectivity

Management
Console



Dashboards



Operational System
Integration



Mobile



Notification Hubs,
Logic Apps

Device connectivity and management overview



Hardware: Temperature | Humidity | Accelerometer | GPS | Alert Light | Buzzer
Applied to: Hard Hat | Workwear | ID Badge/Entry Card | Wearable/Portable Items

Analytics and operational insights

Analytics and visualizations

Azure HDInsight, AzureML, Power BI,
Azure Data Factory, Azure Data Lake

Hot path analytics

Azure Stream Analytics, Azure HDInsight Storm

Cold path analytics

Azure SQL Database, Azure VM, SQL Server 2016,
Azure SQL Data Warehouse, In Database Advanced
Analytics, Azure Blob storage, Azure Document DB

Business drivers

Health & Safety

- What is the current environmental and physical state of my workers?
- Are they appropriately trained, equipped and authorised for a given work area?

Timesheet and Security Monitoring

- Are workers who they say they are?
- Are they actually active on site?

Communication and alerting

- Visible and audible alerts provide feedback to workers
- General commands such as 'Stop work' or 'Extreme weather warning' can be sent

eBECS SmartWear

Your business imperatives, the Azure Cloud and the Internet of Things — everything comes together in our unified smart solution



What is eBECS SmartWear?

eBECS SmartWear is a Cloud solution that improves safety and productivity by giving site/production/logistics managers complete visibility of their workers' health and safety conditions (including extremes of temperature and humidity), movements, location and utilisation.

Typical industry applications: Construction, Services, Utilities, Manufacturing.

Faster, smarter two-way communication in the Cloud age

Two-way technology resides in each worker's hard hat, high-vis or other wearable or portable item. It relays information back and forth, safeguarding workers and keeping site managers up to date and in control through real-time dashboards accessible on desktops, laptops, tablets and smartphones.



The information and analytics displayed enable site managers and other project managers to make accurate and effective decisions, while maximising safety, utilisation and productivity.

So what are the real business benefits?

- People can be tracked in real time, which improves health and safety and protects profits and schedules
- A whole range of Health and Safety alerts can be set up, triggered by incidents such as an impact blow to the worker's helmet, or the worker's helmet falling or moving beyond a pre-set speed
- Alerts can be set up to be triggered by certain climatic or weather conditions such as excessive humidity, heat, approaching storms, risk of lightning strike etc
- Alerts can be raised if someone enters a restricted area or an area in which they are not authorised, equipped or trained to work
- Safeguards can be put in place to prevent timesheet fraud or other criminal activity
- Site/production/logistics managers or supervisors can see information instantly on a dashboard rather than having to compile their own reports or request reports through IT, which can take days or weeks
- eBECS offers all of this functionality as a complete managed service, allowing customers to focus on project/service delivery and profitability.

How Cloud-based eBECS SmartWear answers the highest level demands for smarter solutions

Increasingly CEOs and COOs are challenging their managers to make maximum use of emerging IoT (Internet of Things) capabilities to drive safety, efficiencies and profits. At the same time they are realising that Azure offers powerful analytics and operational insights, not just servers in the Cloud.

The eBECS SmartWear solution brings all of this thinking together, while also integrating seamlessly with customers' ERP systems and existing timesheet and health and safety modules.

Request a SmartWear demo now. Email info@ebecs.com or call +44 (0)8455 441 441

