Intelligent Buildings, Connected Workspaces, Empowered People

Why buildings matter

90%
of our time is spent indoors[1]

Industries spanning a variety of sectors—from hospitals to corporate offices—spend 112X more money on people as they do on energy costs in the workplace.[2]

71%

Operation costs account for 71% of total cost of ownership.[3]

67%

Yet we use a fraction of that space—only 67% of commercial real estate space is fully utilized.[4]

40%

Worldwide, buildings consume 40% of global energy, 25% of global water and 40% of global resources—but up to 50% is wasted.[5]

Putting a human touch into buildings makes them more personal, intuitive and user friendly

Putting a "human touch" into buildings

– Improves productivity
– Decreases absenteeism
– Creates a more comfortable workplace
– Offers occupants more personalized services

| Higher employee retention | Increased productivity |
| ▶ More info | ▶ Learn more |

| More efficient cafeteria | Positive sentiment |
| ▶ More info | ▶ More info |

| Improved health—fewer sick days | Engaged employees |
| ▶ More info | ▶ More info |

| Asset value protected | Reduced maintenance |
| ▶ More info | ▶ More info |

But how do you enhance and improve the user experience within a building?

Create superior buildings that understand the users and occupants throughout the lifecyle of the bulding.

Use deep analytics driven by real-time data
Real-time stream of building, floor and zone data helps predict critical location events and drive responses to requests, allowing time to sense, analyze and act on the needs of occupants.

Incorporate exogenous data
Integrate weather, parking, transit and information about local services to create a virtual campus with a significantly improved occupancy experience.

Use a digital twin
Use a digital twin to understand the data being collected throughout the building allows more efficient planning and management of operations, equipments, systems, space and environment.

Infuse cognition into the workplace
Gain insight into occupancy patterns to enhance human interaction with the building.

A digitally optimized building can influence employee performance, productivity and retention to impact long-term business profitability.

IBM TRIRIGA can help

Cognitive buildings with IBM Watson IoT can optimize the experience of occupants, staff and management through deep analytics driven by real time IoT data.

The IBM TRIRIGA® real estate and facilities management solution provides space management and audit tools that report on space capacity and assignment while managing the financial and real-time operational needs across the organization.

– Improve utilization and occupancy management

– Manage agreements and chargeback to increase accountability for usage

– Provide move planning and management to streamline relocations

– Track budgets, costs and schedules for more efficient facilities management

Learn more

Tap into IBM Watson IoT to better understand the data in thousands of buildings around the world.

Learn how to use IoT to understand space utilization:

– Watch webinar
– Explore resources

"Every building has its own function and personality, and the Internet of Things and cognitive computing enable us to understand and control in powerful new ways that will transform the way we manage and experience buildings around the world."

Jeff Gravenhorst, CEO, ISS

Watson IoT™

IBM

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