

Smart buildings get hyper-aware



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Future growth of smart buildings will be driven by economic, as well as these human factors. According to McKinsey, human activity monitoring is expected to increase productivity by 5 %; human productivity organisational redesign is expected to yield 3-4 % productivity, augmented reality is expected to yield 10 % productivity gains, whilst energy monitoring should reduce costs by 20 %; and IoT should yield a 20-50 % reduction in building security costs.

Such growth is all the more significant because these are percentages of large numbers. Commercial real estate services company Jones Lang LaSalle observed that, in general real, estate tenants spend roughly \$3 per square foot on energy, \$20 on security, and \$200 on other

The industry is nevertheless finding new ways to reduce human interaction with complex machine-based

Why is hyper-awareness important?

Without context, data alone cannot provide a meaningful response to occupants and their environment. Without data and context, the more adaptive the building, the more smart buildings have limited understanding, and buildings with full instrumentation are future-proofed.

To make this happen there needs to be a convergence of two worlds that are conventionally apart: a world of building automation and control on one hand, and a world of hyper-aware intelligent networks and big data on the other.