

Presented by: Nick Cooper, Field Services Director, EcoBuildings May 2016



Questions you are expected to answer...

- Are the learning spaces comfortable for all students?
- Are we managing energy wisely?
- Are the facilities staff as productive as possible?
- In R&D faculties, is safety covered?

The BMS has all of this data but can you find it?



The world is changing...









Information and data are growing exponentially.

"Between the dawn of civilisation through 2003 about 5 exabytes of information was created.

Now, that much information is created every 2 days."

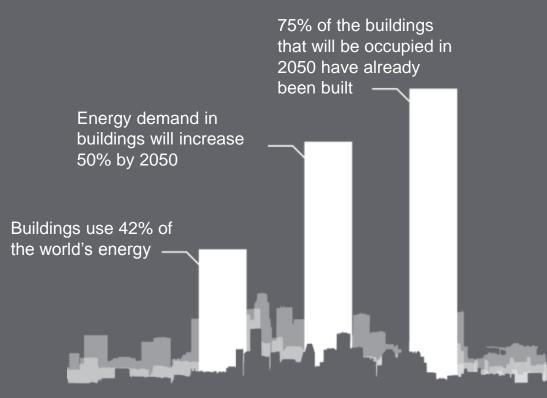
(Eric Schmidt – former Google CEO)



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Change comes at a price

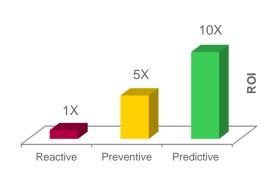
Digitisation in buildings: embedded devices and intelligent systems



The world will spend more money on energy in the next 40 years than it has in the previous 400.

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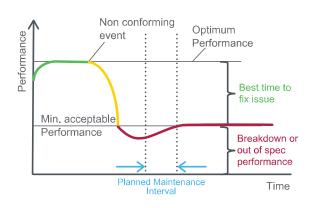
Traditional maintenance is not enough



Reactive maintenance is the most expensive approach, costing as much as 25-30% higher in repairs with four times as many breakdowns and a poor ROI.



Even the best service technician does not have the time to identify and prioritise all building problems.



Rigidly planned schedules don't detect issues as they occur. They are uncovered only during planned maintenance intervals leading to a heightened risk of breakdown.

From Data to Impact

The path to uncovering the "Aha" moments.

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Analytics for Buildings

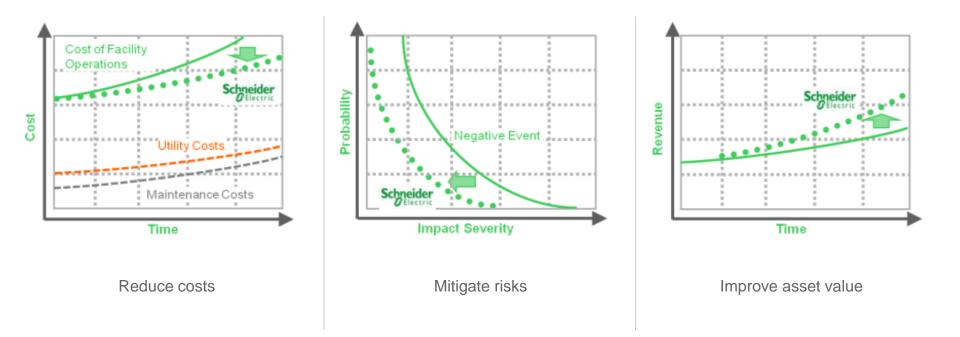
A managed service that provides:

- Results that improve occupant comfort and building energy and financial well-being
- Results based on statistical analysis, expert review, performance trending, diagnostics
- Prioritized asset optimisation recommendations
- Expert guidance with actionable information





Don't settle for a single priority



Case study: Research Laboratory

Customer need

- Ability to diagnose and pin-point system faults to address installation issues.
- Building Analytics solution
 - Identified and recommended repairs to several major problems in leaking and malfunctioning cooling valves in three AHUs, and leaking heating coil valves in nearly 200 VAV boxes



- Prioritised actions enabled operations team to fix the most wasteful leaks first. Additional repair work accelerates retro-commissioning and automates verification of energy initiatives.
- Results
 - Annual savings: approx. £200,000
 - Additionally, the customer maintains a digital history of the building performance.





Schneider Electric is the global specialist in energy management and automation. We have 175 yeas of industry experience, operations in over 100 countries and 6,000 Field Service Engineers (FSE) globally. No matter where your business takes you, our connected technologies will be there to support you.







