Microsoft Azure

Smart Spaces Accelerator

Optimize your HVAC management with predictive analytics

Facilities managers are under more pressure than ever to respond quickly and with greater precision to fluctuating demands on their HVAC systems. Energy costs are continuing to rise, flexible and hybrid work models are changing the way space is used, and new technologies like Internet of Things sensors are creating more opportunities to track and optimize energy use in real time.

The **Smart Spaces Accelerator** helps facilities managers optimize HVAC systems quickly and proactively for efficient and cost-effective energy use. It integrates your building management system (BMS) with external weather data and uses predictive modeling to deliver real-time reports and actionable insights to a visual dashboard in desktop and mobile applications.

Challenges

- **Operational inefficiencies** can be challenging to pinpoint, leading to excess energy use.
- **Rising energy costs** increase pressure to conserve.
- **Siloed data** from internal and external sources does not integrate easily.
- **Lack of fast and accurate predictive modeling** makes it difficult to effectively forecast energy needs.
- **A mobile application** is needed so facilities managers can work from anywhere.

23% of facility managers cited a lack of resources available to interpret data and translate it into actionable goals as being a barrier to implementing building maintenance technologies.*

Benefits

Integrate with your existing BMS and draw from external data to generate rich, predictive analytics.

Provide a holistic, mobile dashboard so facilities managers can track and adjust systems on the go.

Generate real-time predictive modeling to optimize lead times for temperature setpoints.

Easily launch an accelerator **simulation** using pre-configured Microsoft IP.

*Internet of Business: "Survey: Facilities managers look to IoT for building performance boost", Current News

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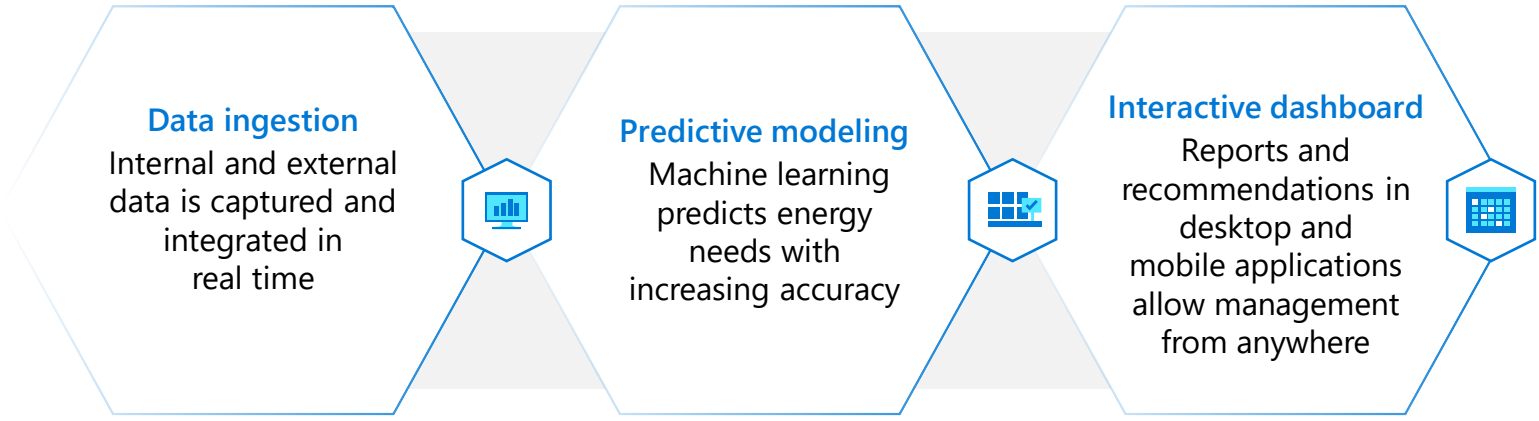
Get reports and recommendations for HVAC optimization in a visual mobile interface

Microsoft Azure Machine Learning predicts optimal energy needs and provides actionable insights, delivered to a user-friendly dashboard in Microsoft Power BI.



Customer success: Allegiant Stadium scores in energy savings

Situation: Allegiant Stadium, home to the Las Vegas Raiders football team, was cooling the stadium too much—often **running their HVAC at full blast for 48 hours** before opening their doors. Facilities managers had to work from a **desktop application** to view data on their systems, restricting their mobility.

Solution: The stadium deployed the **Smart Spaces Accelerator** to integrate its internal and external data streams in a machine learning engine. Reports and energy forecasts are now available in **mobile and desktop dashboards**, so workers can control energy settings from anywhere.

Impact: The stadium is **saving energy and operating its HVAC with greater efficiency.** Facilities managers can **quickly respond to changes in forecasts based on real-time data,** reducing energy use and related costs.

Use pre-configured accelerator IP to achieve proof of value in weeks

Kick-off	Proof of value	Proof of concept
Learn more about the Smart Spaces Accelerator and see a demo.	Run a accelerator simulation using resources and guidance from the Smart Spaces GitHub.	Connect with technical specialists and partners to develop your HVAC interface API.

Get started today

Contact your Microsoft specialist for a demo, and to discuss prerequisites and next steps.

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