

APRIL 15 - 17 | ANAHEIM, CA

TECH TRENDS

WEDNESDAY, APRIL 17

11:00 AM - 11:45 AM SAN SIMEON ROOM

OCCUPANCY AWARENESS – CUTTING EDGE USE CASES





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OCCUPANCY AWARENESS CUTTING EDGE USE CASES

Host: Jacqueline Walpole, Tridium

Presenters: Charles Pelletier, Distech Controls James Palmer, Metrikus



HOW USING AI CAN INCREASE SPACE EFFICIENCY

Charles PelletierResense Move by







RESENSE MOVE – THE SOLUTION TO INCREASE SPACE EFFICIENCY



AI POWERED THERMAL SENSOR RESPECTING PRIVACY

Not counting equipment that is emitting heat (e.g. computer)







USE CASE #1: PRO-ACTIVE AIR RENEWAL CONTROL FOR BETTER EFFICIENCY

Standard meeting room



Meeting room with intelligent space control solution



1) Empty room air renewal is adapted accordingly





USE CASE #1: PRO-ACTIVE AIR RENEWAL CONTROL FOR BETTER EFFICIENCY

Standard meeting room



Reactive solution: air renewal reacts when CO2 has reached the certain threshold

Meeting room with intelligent space control solution



Pro-active solution: air renewal anticipates and adapts based on the number of people



(2)



USE CASE #1: PRO-ACTIVE AIR RENEWAL CONTROL FOR BETTER EFFICIENCY

Standard meeting room



Meeting room with intelligent space control solution



3 Providing more productive workspace and efficient control





LIGHT INTERACTION TO PROVIDE INFORMATION

To the building occupant

- Is indoor air quality optimal?
- Is the meeting room cleaned?
- Is the meeting room reserved?



To the building service staff

- Office needs cleaning?
- Identify malfunctions



Pre-defined/customized scenarios





USE CASE #2: CLEAN ONLY THE BUILDING SPACES THAT HAVE BEEN USED



\$55 to \$115 Average hourly cost for office cleaning

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It is 7 pm, all the employees have left the workplace.
The space management solution indicates, thanks to LED lights, the offices spaces that have been used that day.



USE CASE #2: CLEAN ONLY THE BUILDING SPACES THAT HAVE BEEN USED



Orange LED indicates the spaces that have been used that day and should be cleaned and in green the office space that has not been used.



When the cleaning staff arrives, they know right away
which space needs to be cleaned. For facility managers it is a much more efficient and cost-effective solution.

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KEY TAKEAWAYS

Ready to use 7 in 1 AI-based sensor :

- Decrease OPEX,
- Optimize occupant comfort
- Versatile
 - Future machine learning for future use-cases,
 - Extensive connectivity (BACnet, MQ TT, Rest API,
 - Flexible setup (24V, PoE...)
- Not only sensing (configurable LED halo for feedback)









LIVE OCCUPANCY DATA

Calendars and timers are no longer fit for purpose

James Palmer Metrikus





POST-COVID BUILDING OCCUPANCY



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A WIDE RANGE OF DATA SOURCES FOR OCCUPANCY





servicenow.











Metrikus App



Microsoft Dynamics 365

servicenow

PowerApps

accenture

SAPPSPACE



framework

Energy

A WIN-WIN

- MSI/SIs get quick, accurate, aggregated data, ready to use in N4 instances
- For MSIs the integration work is extremely fast and easy. There are recurring SaaS fees that you would benefit from, and you will be adding value to a new vertical (the digital workplace teams), in a different channel (not trad M&E, but end user / occupiers)
- End-users get space utilization data, to right-size their estate. In London each desk costs £13k PA. You don't have to save many desks to get a really quick ROI!
- End-users also benefit from improved comfort as HVAC plant only services occupied areas
- Landlords and end-users benefit from reduced fuel bills and a much-improved ESG story











Thank you! Any Questions...?





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