

SMART BUILDINGS VERSUS SMART PEOPLE

The importance of facility management and energy management software to achieve actual energy savings

OPERATIONAL CARBON REDUCTION

Why are we talking about Smart buildings?

Because we need any help we can to reduce our emissions...



Energy Efficiency in Buildings conference

04.04 2023
ATHENS
+LIVE ONLINE

Accelerating Sustainable and Smart Buildings to increase RoI and Social Impact

The poster features an illustration of a smart city with buildings, trees, and a network of connecting lines.

SMART BUILDING

A Smart Building is any structure that uses automated processes to automatically control the building's operations including heating, ventilation, air conditioning, lighting, security and other systems, maximizing user comfort while minimizing energy consumption.


Office IOT

 ON

 ON



 98.4% Sustainable energy

 75% Cost reduction per day

Wed, October 20 stats:

Park on level 4 row 3



Daily traffic into the building:

315 Employees
46 Visitors



Available desk on floor 12 room 5

 10am-7pm



According to the *European Commission*, "Smart buildings means buildings empowered by ICT (information and communication technologies) in the context of the merging Ubiquitous Computing and the Internet of Things:

the generalization in instrumenting buildings with sensors, actuators, micro-chips, micro- and nano-embedded systems will allow to collect, filter and produce more and more information locally, to be further consolidated and managed globally according to business functions and services.

LEED PROJECTS IN GREECE



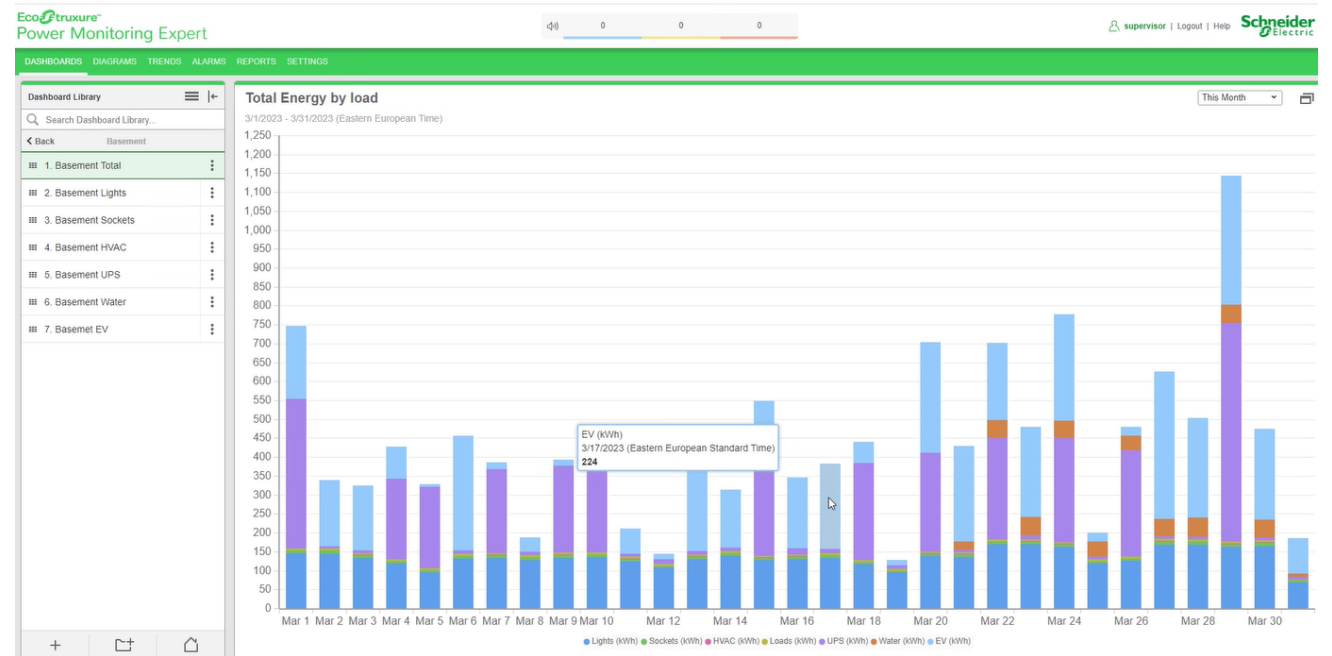
- Energy model
- Sensors
- BMS
- EMS

- CxA
- System manual
- Training

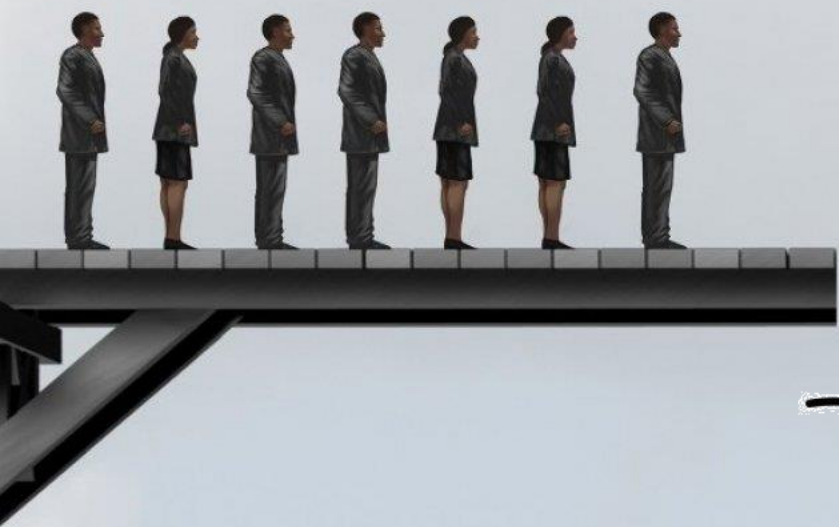


10 MONTHS WALK-THROUGH MONITORING BASED COMMISSIONING

ID	DESCRIPTION	TABLE	UNIT	STATUS	SENSOR	LOCATION
155	ΑΦΗ/ΣΒΕΣΗ ΡΕΥΜΑΤΟΔΟΤΩΝ (U1-U15)	Πίνακας Π.Υ.ΙΔΑ-03.1	15min	Y	ΡΕ/ΛΑΙ ΙΣΧΥΟΣ (U1-U15), NO ΕΠΑΦΗ	DDC-A03.1
156	ΑΦΗ/ΣΒΕΣΗ ΡΕΥΜΑΤΟΔΟΤΩΝ (U16-U31)	Πίνακας Π.Υ.ΙΔΑ-03.1	15min	Y	ΡΕ/ΛΑΙ ΙΣΧΥΟΣ (U16-U31), NO ΕΠΑΦΗ	DDC-A03.1
157	ΑΦΗ/ΣΒΕΣΗ ΡΕΥΜΑΤΟΔΟΤΩΝ (E21-E27)	Πίνακας ΠΦΕ.ΙΔΑ-03.1	15min	Y	ΡΕ/ΛΑΙ ΙΣΧΥΟΣ (E21-E27), NO ΕΠΑΦΗ	DDC-A03.1
158	ΑΦΗ/ΣΒΕΣΗ ΜΠΑΡΑΣ ΘΕΡΜΟΣΙΦΩΝΩΝ (E66-E68)	Πίνακας ΠΦΕ.ΙΔΑ-03.1	15min	Y	ΜΟΤΕΡ ΣΤΟΝ ΑΥΤΟΜΑΤΟ ΤΡΟΦΟΔΟΣΙΑΣ ΜΠΑΡΑΣ (E66-E68), NO ΕΠΑΦΗ	DDC-A03.1
159	ΜΕΤΡΗΣΗ ΠΟΙΟΤΗΤΑΣ ΑΕΡΑ	MEETING ROOM (Λ.ΣΥΓΓΡΟΥ) 3ος	15min	Y	ΑΙΣΘΗΤΗΡΙΟ ΜΕΤΡΗΣΗΣ ΠΟΙΟΤΗΤΑΣ ΑΕΡΑ CO2, NOVOS 3 CO2 Thermokon, IAQ sensor	DDC-A03.1
160	ΜΕΤΡΗΣΗ ΘΕΡΜΟΚΡΑΣΙΑΣ ΧΩΡΟΥ	MEETING ROOM (Λ.ΣΥΓΓΡΟΥ) 3ος	15min	Y	ΑΙΣΘΗΤΗΡΙΟ ΘΕΡΜΟΚΡΑΣΙΑΣ, temperature sensor	DDC-A03.1
161	ΜΕΤΡΗΣΗ ΠΟΙΟΤΗΤΑΣ ΑΕΡΑ	MEETING ROOM (ΛΑΓΟΥΜΙΤΖΗ) 3ος	15min	Y	ΑΙΣΘΗΤΗΡΙΟ ΜΕΤΡΗΣΗΣ ΠΟΙΟΤΗΤΑΣ ΑΕΡΑ CO2, NOVOS 3 CO2 Thermokon, IAQ sensor	DDC-A03.1
162	ΜΕΤΡΗΣΗ ΘΕΡΜΟΚΡΑΣΙΑΣ ΧΩΡΟΥ	MEETING ROOM (ΛΑΓΟΥΜΙΤΖΗ) 3ος	15min	Y	ΑΙΣΘΗΤΗΡΙΟ ΘΕΡΜΟΚΡΑΣΙΑΣ, temperature sensor	DDC-A03.1
163	ΜΕΤΡΗΣΗ ΠΟΙΟΤΗΤΑΣ ΑΕΡΑ	MEETING LOUNGE 3ος	15min	Y	ΑΙΣΘΗΤΗΡΙΟ ΜΕΤΡΗΣΗΣ ΠΟΙΟΤΗΤΑΣ ΑΕΡΑ CO2, NOVOS 3 CO2 Thermokon, IAQ sensor	DDC-A03.1
164	ΜΕΤΡΗΣΗ ΘΕΡΜΟΚΡΑΣΙΑΣ ΧΩΡΟΥ	MEETING LOUNGE 3ος	15min	Y	ΑΙΣΘΗΤΗΡΙΟ ΘΕΡΜΟΚΡΑΣΙΑΣ, temperature sensor	DDC-A03.1

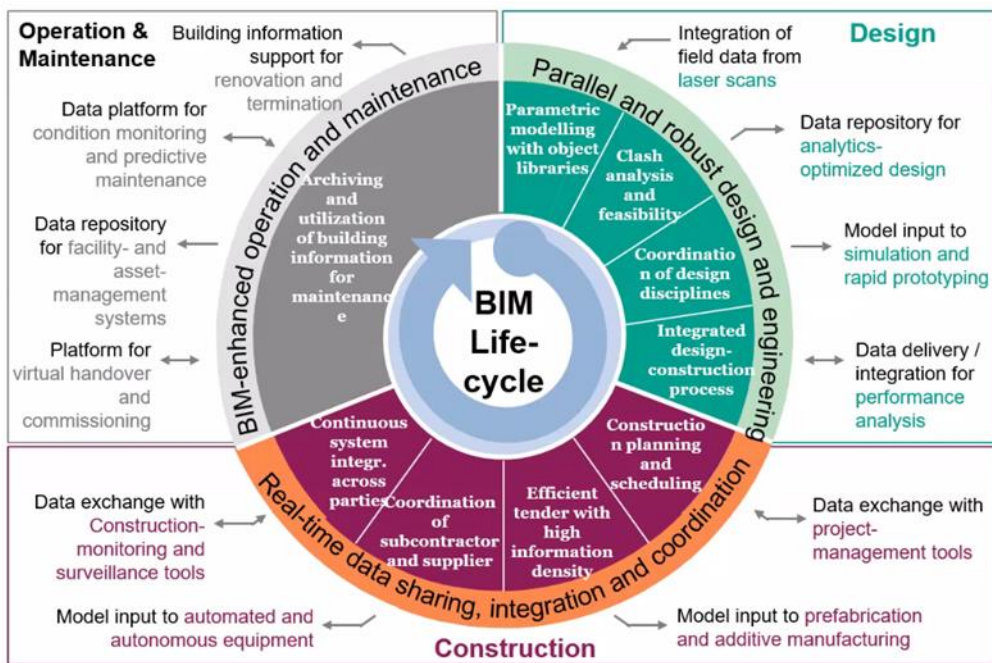


DISCONNECTED

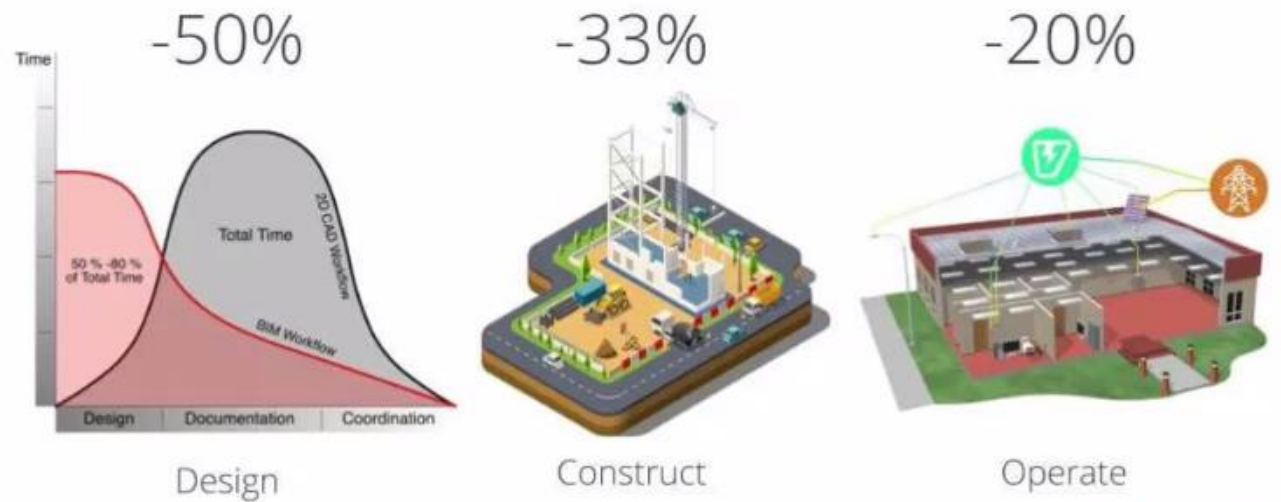


BIM

BUILDING SMART

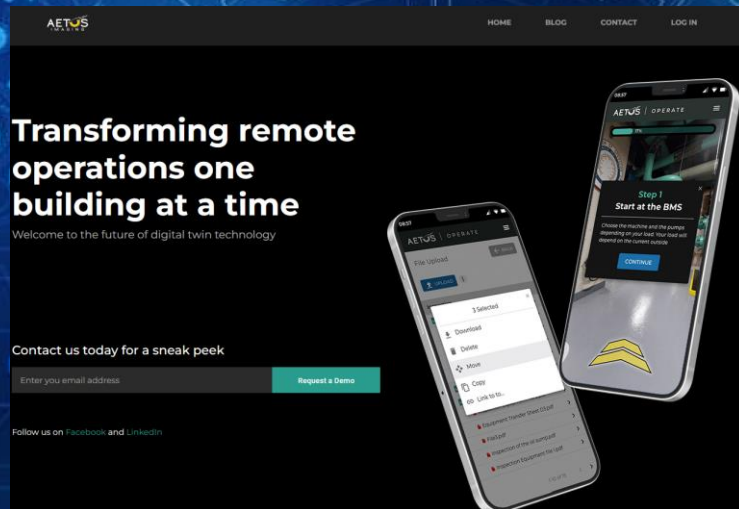


BIM can save us:



- 3D Scanning
- BIM software

DIGITAL TWIN



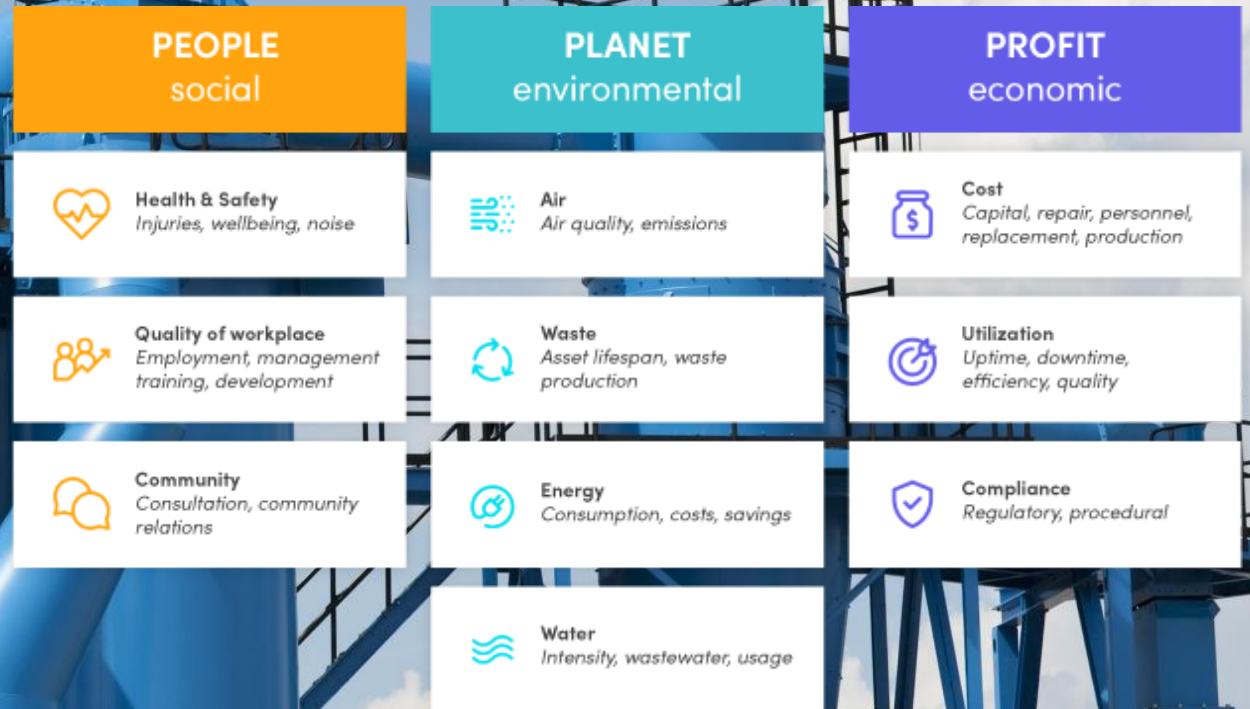
- Training
- Remote operations



FACILITY
MANAGEMENT
AWARDS 2014



SUSTAINABLE FACILITY MANAGEMENT



Maintenance is any activity—such as tests, measurements, replacements, adjustments, and repairs—intended to retain or restore a functional unit in or to a specified state in which the unit can perform its required functions.

SMART FACILITY MANAGEMENT SOFTWARE



Resources + Fix for enterprise

Login

Free tour

[Download](#) the 2022 Business Leader's Guide to Digital Transformation in Maintenance

Maintenance software that'll help your company break production records

Get the tools to plan maintenance, the data to make it more efficient, and the support to soar past your uptime targets

Company email

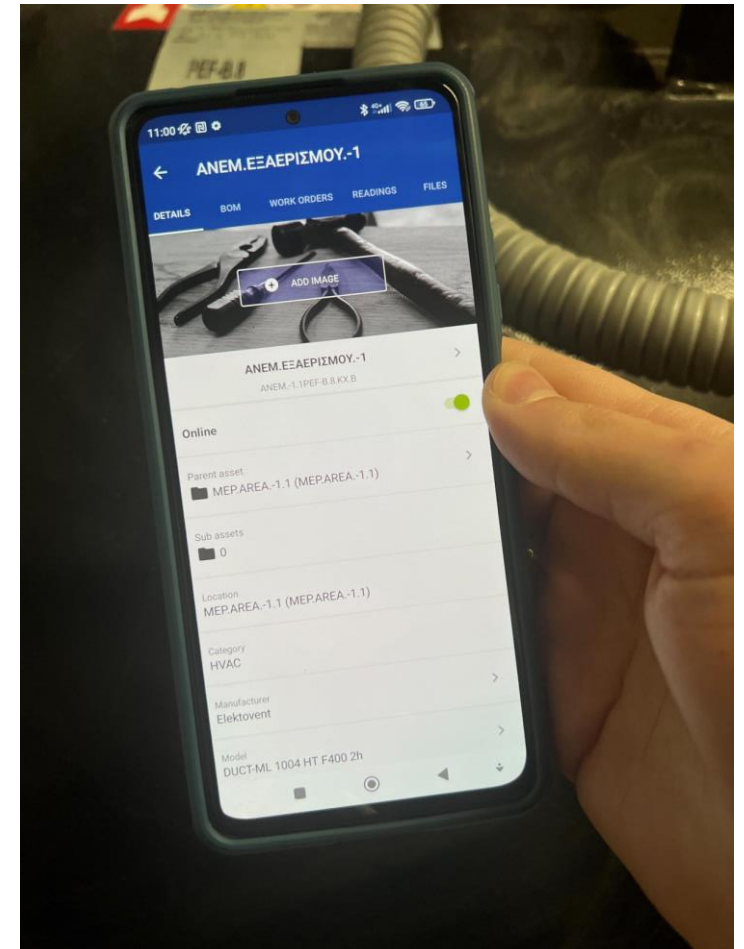
Try it for free →

The average maintenance team using Fix:

Reduces downtime by **27%**

Cuts operating costs by **10%**

Decreases repair times by **20%**



THANK YOU FOR YOUR ATTENTION!

Sandra F. Bär

Head of Sustainability at DIMAND S.A.

Dipl.-Ing. TU-Munich Architect

LEED Accredited Professional BD+C

DGNB consultant

WELL Accredited Professional

ISO 9001 and 14001 Head Auditor

www.dimand.gr

