Digital Twins

Can we agree on the benefits?

CEU CODE FOR THIS SESSION: SYK036

The Debate Panel

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The Importance of IFMA Communities and Councils

Communities are aligned with
Core Competencies

- Business Leadership (BUS)
- Environmental Stewardship & Sustainability (ESUS)
- Information Technology Community (IT)
- Operations & Maintenance Health Safety (OMHS)
- Real Estate Advisory & Leadership (REAL)
- Workplace Evolutionaries (WE)

Councils are aligned with
Vertical Markets

- Academic Facilities Council
- Airport Facilities Council
- Banking Institutions & Credit Unions Council
- City & Country Clubs Council
- Corporate Facilities Council
- FM Consultants Council
- Food Service & Restaurant Council
- Legal Industry Council
- Manufacturing, Industrial & Logistics Council
- Museums/Cultural Institutions Council
- Public Sector Facilities Council
- Religious Facilities Council
- Research & Development Facilities Council
- Utilities Council

Many Thanks to our Sponsors

The IT Community has revised its Sponsorship Program to Align with the Calendar Year and to Support the IFMA Foundation with a % of Sponsorships going to Scholarships. We anticipate growth of Sponsorship to support this initiative as well as Special Events such as Tech Conferences and Regional gatherings in Chicago, Dallas, Los Angeles, San Francisco and Phoenix.

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Freespace.
kontakt.io
IAdea
nfs technology
ROI CONSULTING GROUP
TDIndustries
LandTech Consultants
nuvolo
JLL/Technologies
DISRUPTIVE TECHNOLOGIES

Session Learning Objectives

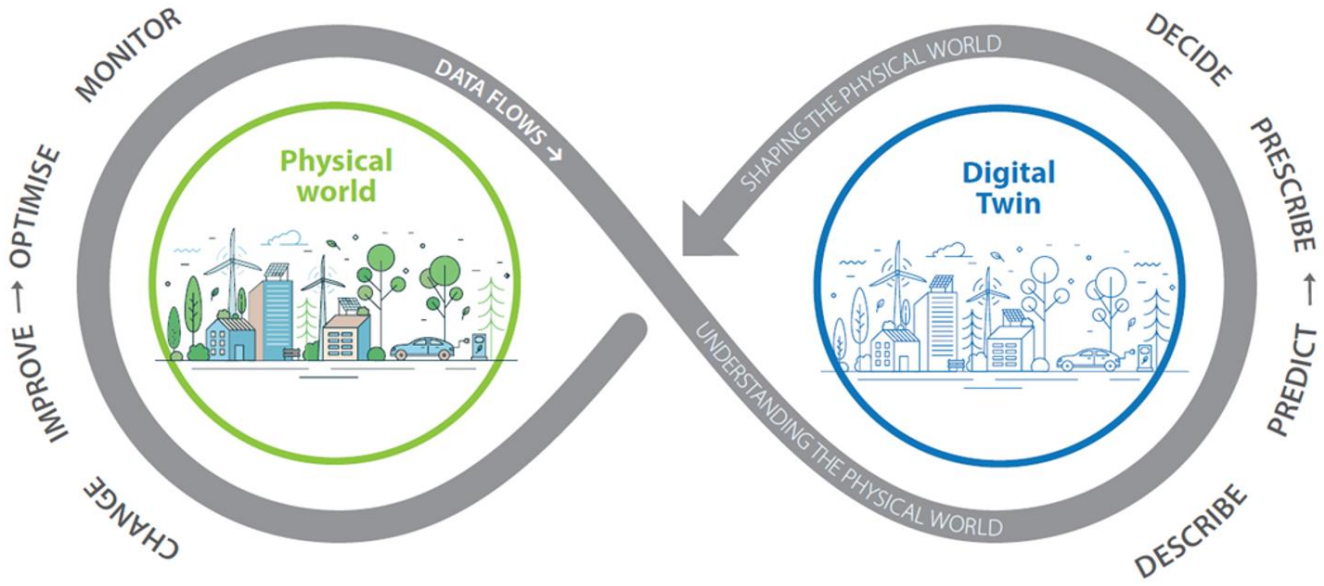
- Definition of Digital Twins
- Digital Twins Adoption in the Marketplace
- What are the Industry Benefits

Define Digital Twins

Digital twins are realistic digital representations of physical assets

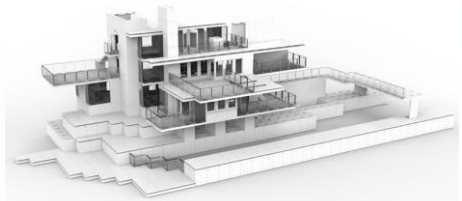
that can be used to monitor and predict performance,
feeding out insights and interventions.
These insights lead to better interventions and
unlock real-world value from assets through

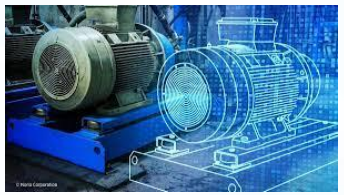
- financial savings
- improved performance and services
- and better outcomes for society



‘Digital Twins’ in the total building life cycle

	Architecture	Design	Construction	Operation	Demolition
Digital Twin role is in	Conveying the ‘idea’, the concept to meet the requirements as set.	Dimensioning the Architecture. Defining asset fit-out.	Build to specification	Effective use and maintenance of the building	Removal of valuable materials
Features	3-D ‘visualization’ ‘walk through’	3-D ‘visualization’ (clashing), simulation, calculation.	Bill-of Materials, Assembly sequencing, Augmented reality 3-D ‘visualization’ (fit to specification).	Monitor operating condition, Enable timely interventions.	‘Bank of materials’ to recycle, Disassembly options
Notes	Also known as ‘Architectural Models’	Also known as MEP Mechanical – Electrical and Plumbing Models	First time the DT actually represents a physical object (into being)	Key role for IoT in monitoring.	Combination of Models and Asset Library from operations …





Conversation today

Internet of Things for Building Operations

"IoT for buildings refers to the integration of Internet of Things (IoT) technology in buildings
for monitoring and controlling various systems, such as heating and cooling, lighting, security, and energy management.

This leads to improved efficiency, comfort, and safety for occupants."

Unconnected buildings

Smart buildings

Autonomous buildings

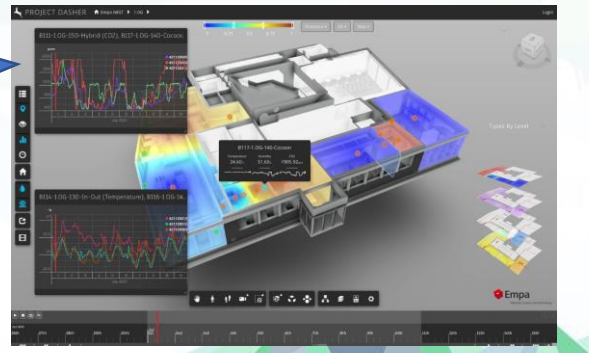
IoT

FDD:
Fault Detection & Diagnosis

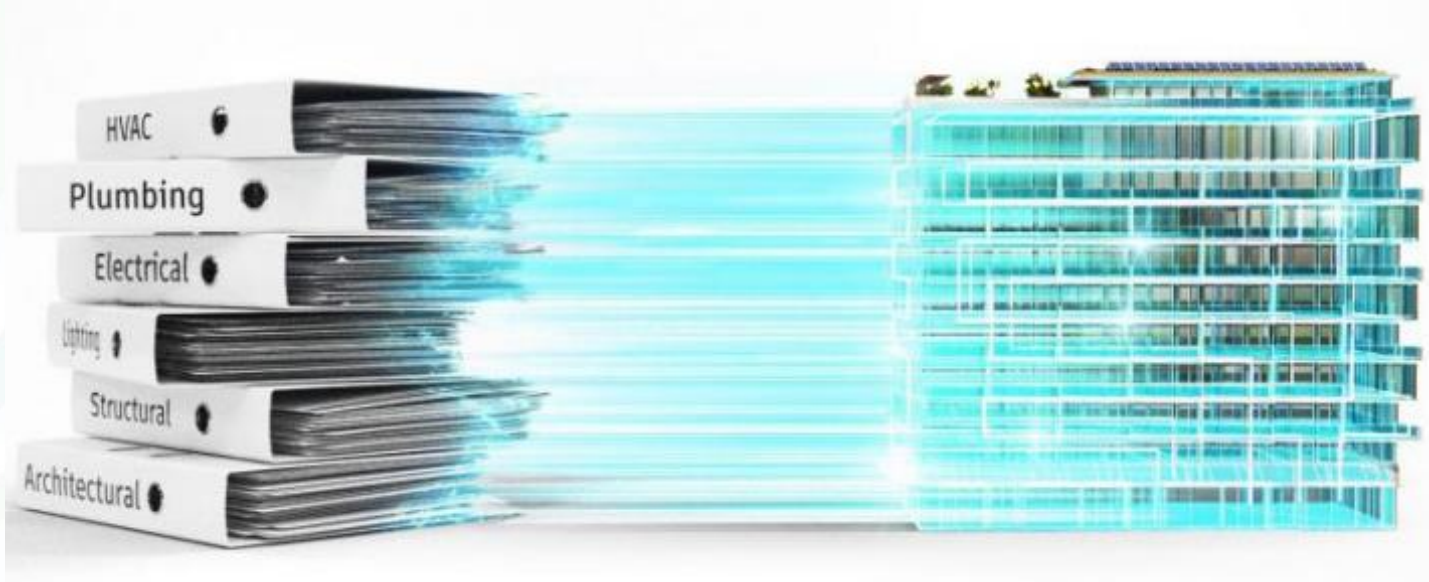
SRA:
System Response Automation

Digital Twin for Building Operations

Linked up
for human analysis
of issues



Let's Talk About Market Adoption



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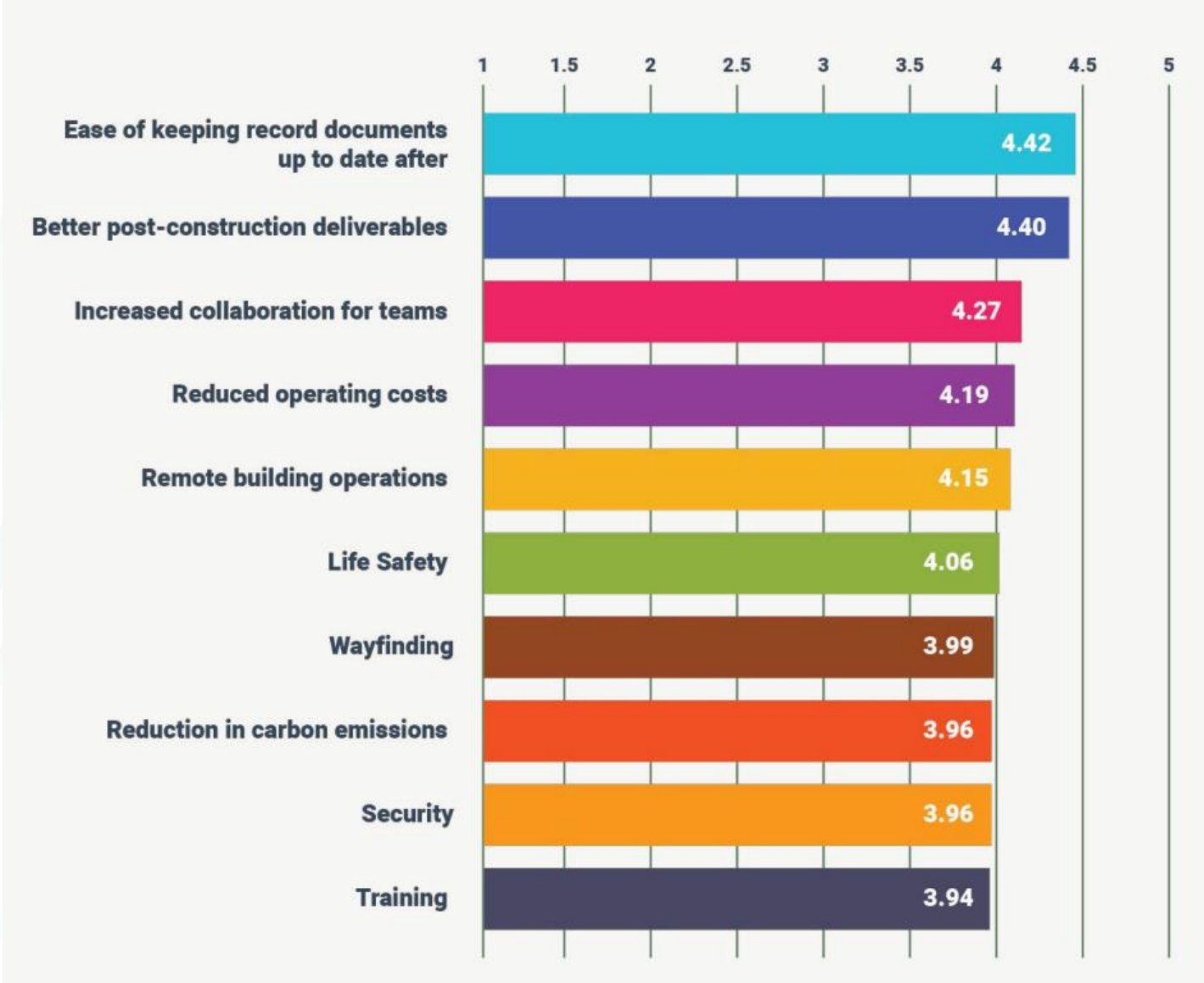
Let's Talk About the Benefits



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Download at the IFMA IT Community Website

The 2023 Edition is coming soon!

https://it.ifma.org/news/

IFMA WORLD WORKPLACE

Help us with the 2023 Digital Twin Survey

Just 3 minutes!

Thank you!

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Digital Twins

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CEUs & CFM® Maintenance Activities

To receive CEU points, you must add the US$25 processing fee to your registration.
All CEU participants are required to complete the session evaluation, five question assessment and **CEU session code** for each session attended. After passing the test, your electronic CEU certificate can be downloaded from the Attendee Service Center.

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Managing CEUs Instructions*:

- Log into the Attendee Service Center
- Your log-in information was sent to you when you registered for the conference.
- Click “Start CEU Process” on the left-hand side.
- Click “Start” next to the session you attended.
- Complete the session evaluation.
- Complete the five-question assessment and CEU session code
- After passing the test, your attendance will be verified, and a certificate can be downloaded from the Attendee Service Center.

**If you wish to receive CEUs or LUs for other organizations, you must contact those organizations for instructions on reporting credit hours.*

To receive 1 CFM Maintenance Activity (6 required for recertification)

- Record your attendance for the three-day conference on your CFM Recertification Form in CAMP. Credentials Staff can verify your attendance.
- At re-certification time, submit your completed CFM Recertification Form.

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- Log into your Mobile App
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For each survey completed you will receive 1 gamification point