iT Technology Community
IFMA

WEBINAR

DIGITAL TWIN TRENDS
FOR THE BUILT ENVIRONMENT

1PM EDT, OCT. 19

Sponsored By

AUTODESK

ROI CONSULTING GROUP

Today’s Panel

Melanie Stone
ROI Consulting

Owners

Erik Jaspers
Planon Software

IWMS Software

Mark Mergenschroer
Autodesk Tandem

Design Software

Chris Lorrain
LandTech Consultants

Civil / Laser Scanning

Brett Spindler
Schneider Electric

IT / OT

The IT Community

BETA & The IT Community are committed to providing appropriate and relevant content to the GLOBAL community utilizing a broad range of communication and publication platforms.

We continuously answer the question,

"How does Technology Support CRE & FM?"

We want to collaborate to share the best case studies!

iT Technology Community

A Community of IFMA

beta Built Environment Technology Alliance

The Importance of IFMA Communities and Councils

Communities are aligned with ***Core Competencies***

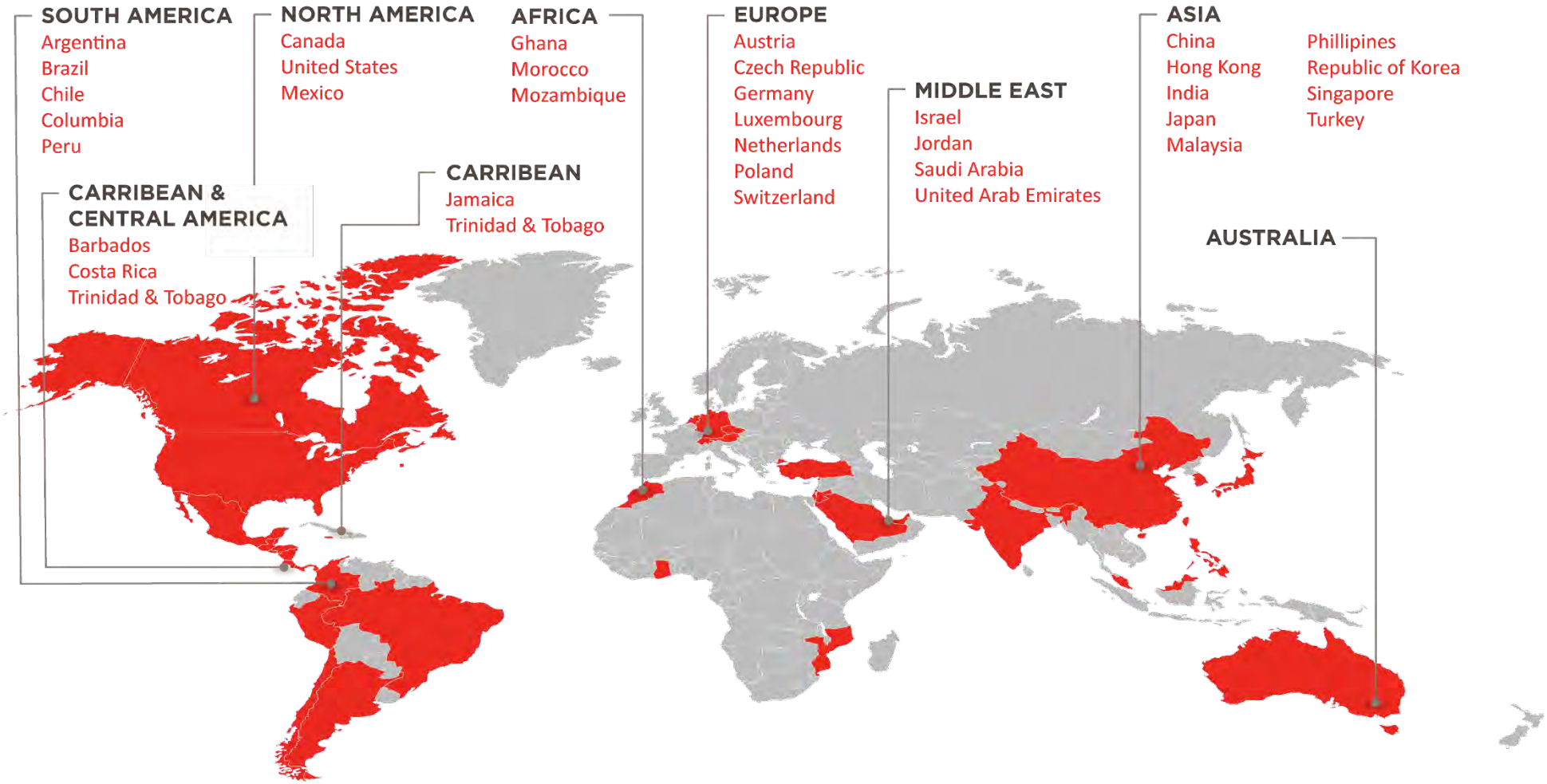
- Business Leadership (BUS)
- Environmental Stewardship & Sustainability (ESUS)
- Information Technology Community (IT)
- Operations & Maintenance Health Safety (OMHS)
- Real Estate Advisory & Leadership (REAL)
- Workplace Evolutionaries (WE)

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 Members

We have over 200 Members from over 30 countries



What We Do to Support the Built Environment

- Articles
- Books
- Webinars
- Conference Workshops and Presentations
- Hosted Symposiums
- Newsletters
- Benchmarking Reports
- Networking Events
- Social Media
- Subject Matter Expert Advice for Membership

beta Built Environment Technology Alliance

AMERICAN MADE CHALLENGES
U.S. DEPARTMENT OF ENERGY

IFMA WORLD WORKPLACE
SEPTEMBER 28-30, 2022
MUSIC CITY CENTER | NASHVILLE, TENNESSEE, USA

TECNO EDIFICIOS

GEO WEEK

WORLD WORKPLACE EUROPE '22
FM for a Sustainable Future
1-2 June | Hybrid Event

World Workplace Asia-Pacific
SINGAPORE
HYBRID EVENT | 5 - 6 July 2022

THE FM EXPERIENCE
FACMAN
LATAM 2022

Symposium

IFMA FOUNDATION
MAKING FM A CAREER OF CHOICE

ic22 infocomm

2021 CORENET GLOBAL SUMMIT
NORTH AMERICA SEATTLE
NOVEMBER 7-9

How To Get Involved

Join a Committee

Join Now

Join the Board

Join Now

Sponsorship Opportunities

Sponsor

Contribute to

Content/thought leadership

Contribute

Technology Community

A Community of IFMA

Agenda

A little background

Survey overview

Poll

What the heck is a Digital Twin?

What are the business benefits?

Q&A

Technology Community

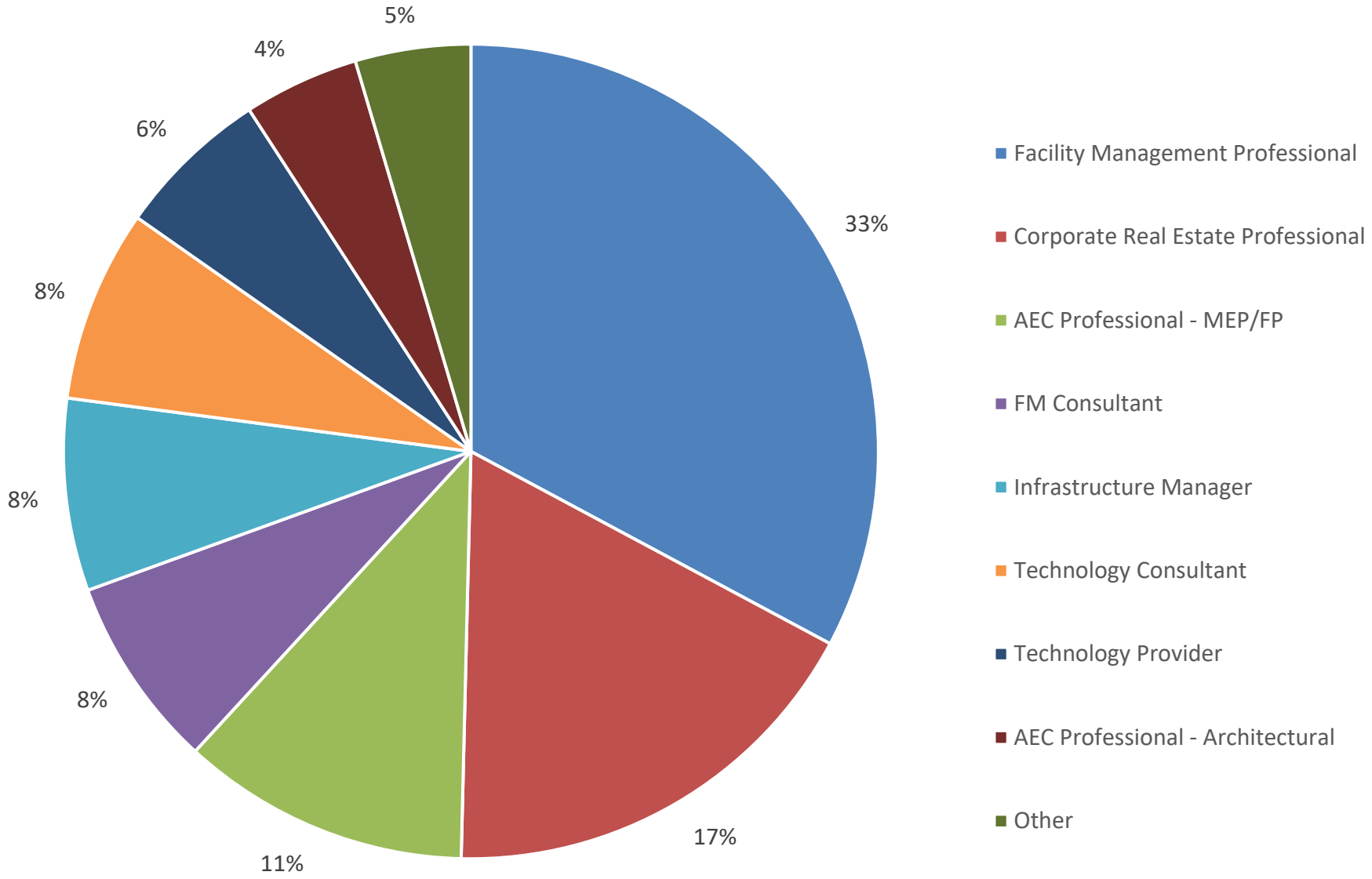
A Community of IFMA

WEBINAR

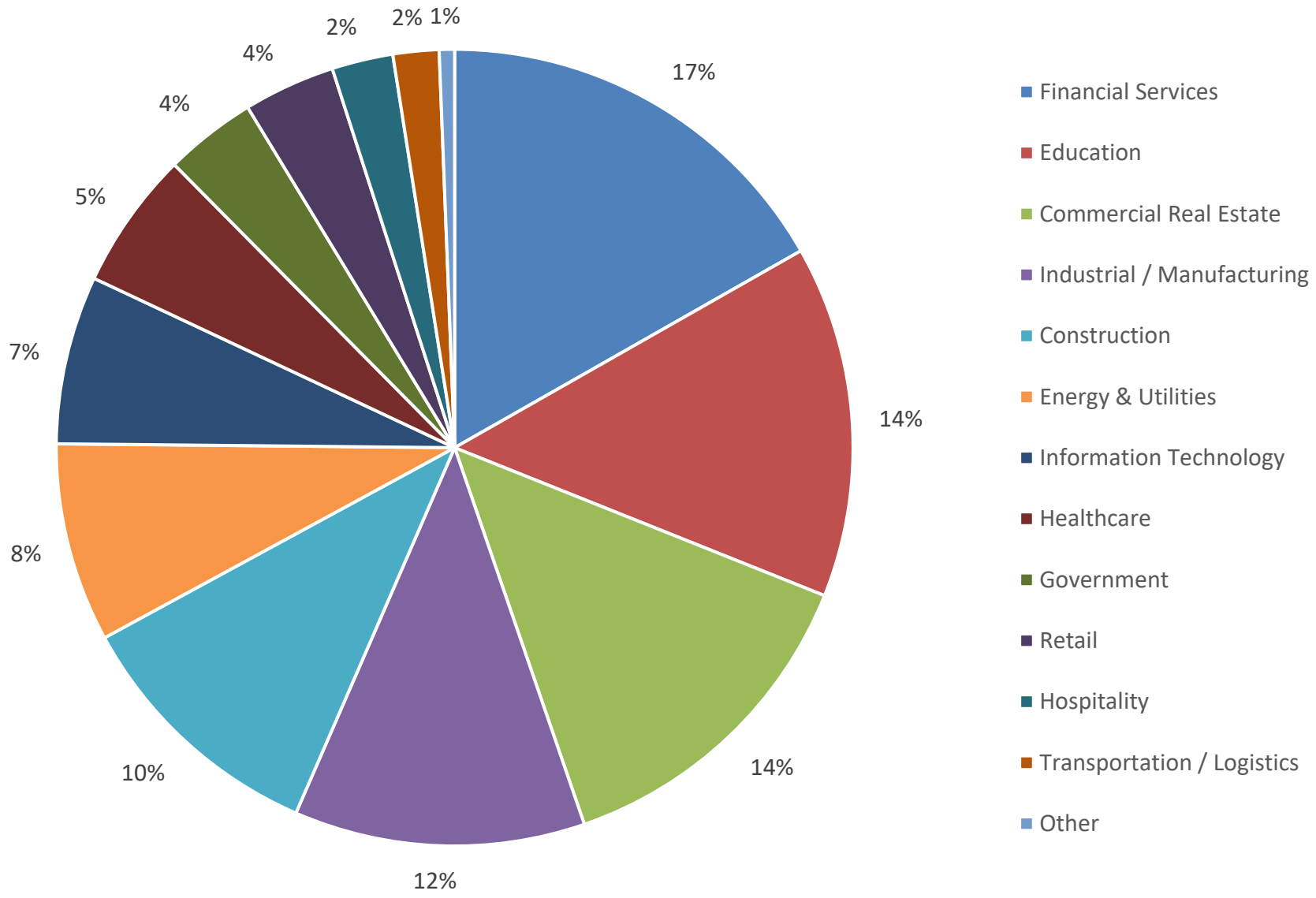
DIGITAL TWIN TRENDS

FOR THE BUILT ENVIRONMENT

Who Took the Survey?



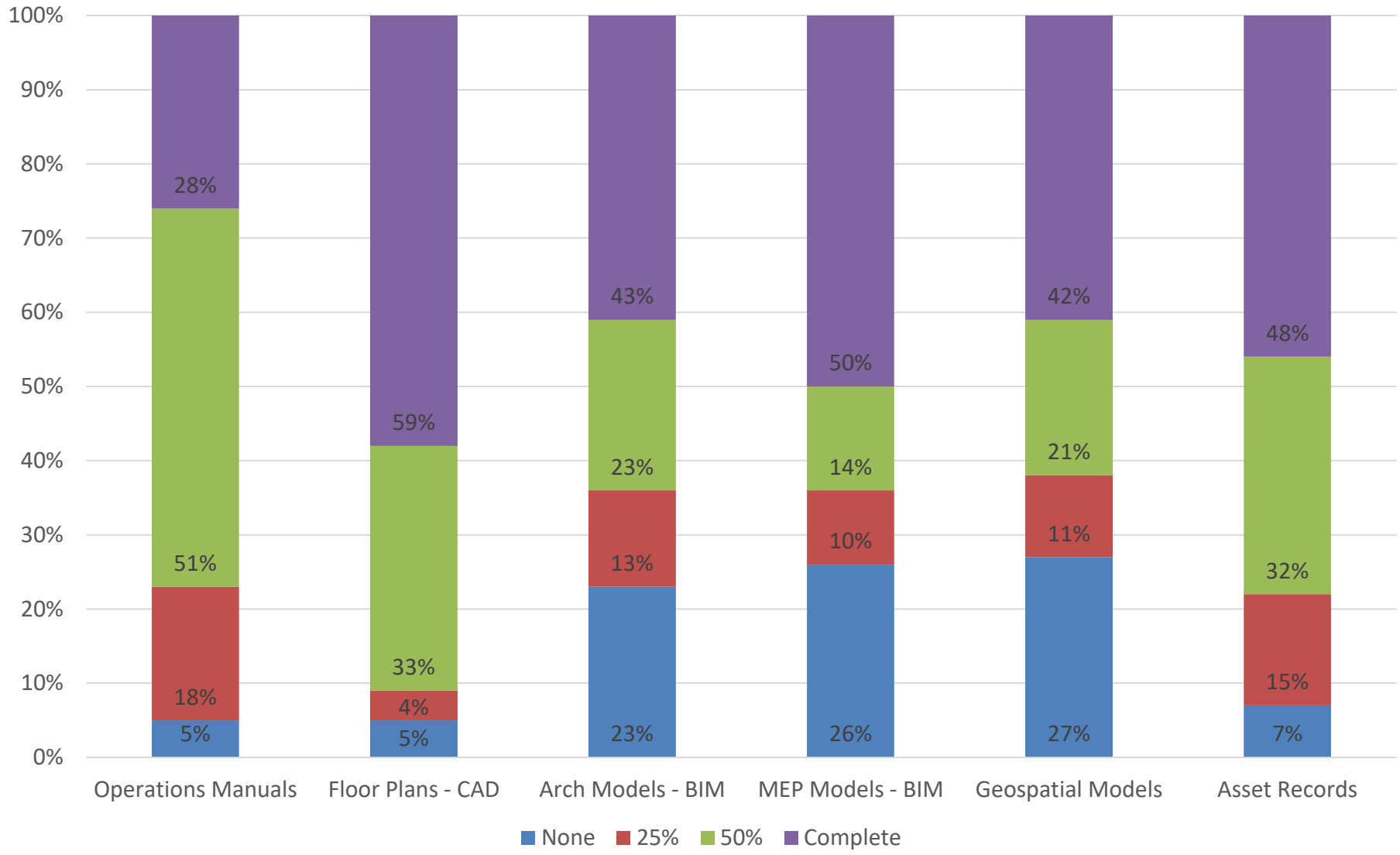
Industry Demographics



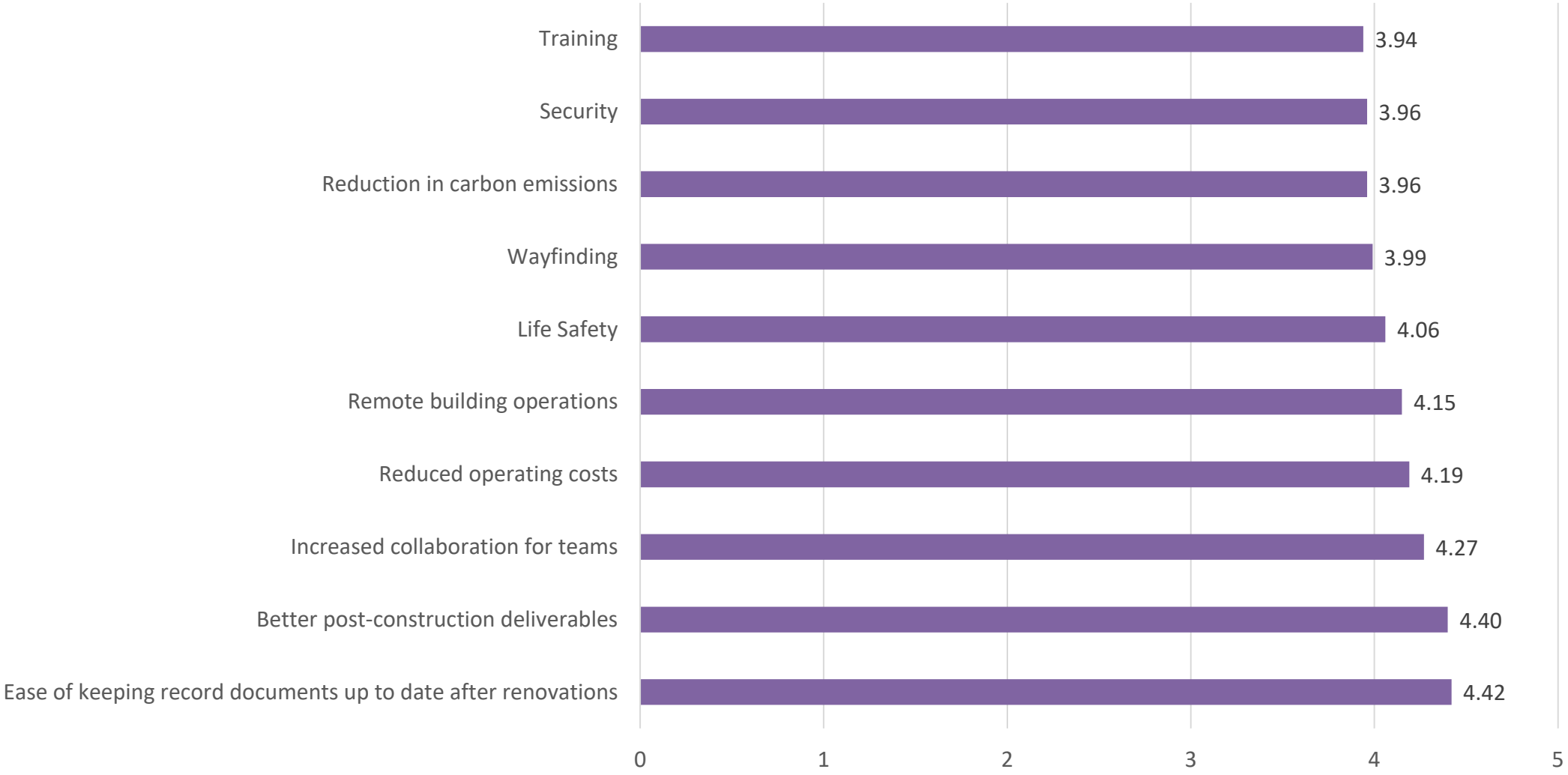
Level of Digitization

Data types with 50% or higher availability:

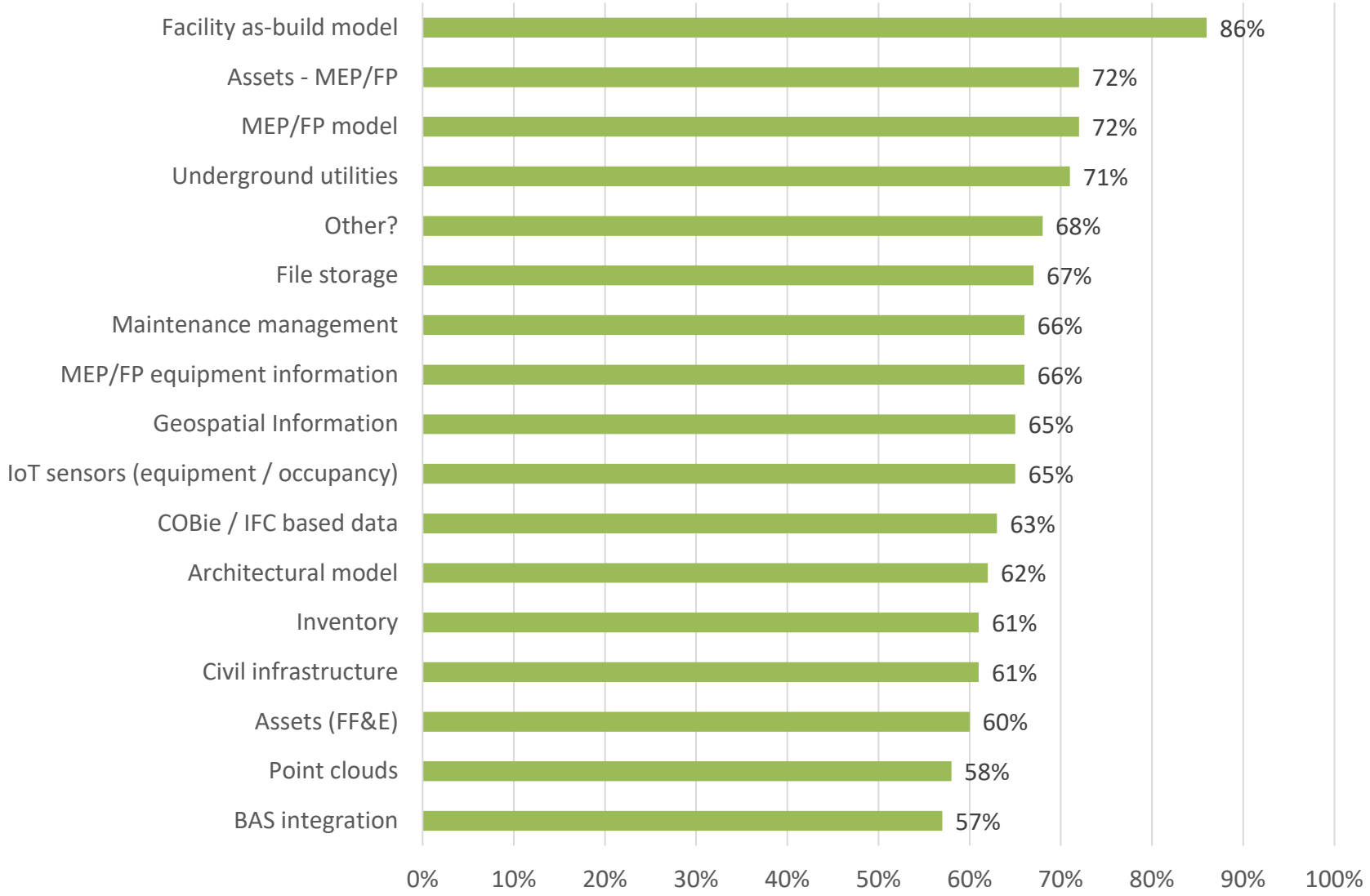
Floor Plans - CAD	99%
MEP Models - BIM	96%
Geospatial Models	95%
Asset Records	95%
Arch Models - BIM	94%
Operations Manuals	78%



Business Benefits



Essential Elements of a Digital Twin



Poll

Let's Talk

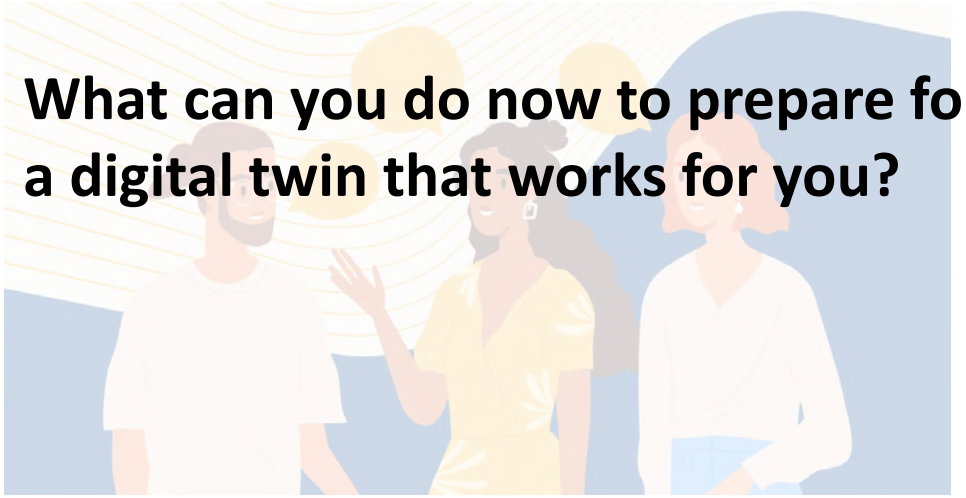
What the heck is a Digital Twin?

What are the business benefits?

In what situation could Digital Twin technologies have helped?

What are the roadblocks?

What can you do now to prepare for a digital twin that works for you?



What is a Digital Twin?

Melanie Stone
ROI Consulting

"… an ecosystem of comprehensive, editable data; facilitating building maintenance, resource management, and changes through the lifecycle."

Erik Jaspers
Planon Software

"… realistic digital representations of physical assets, that can be used to monitor and predict performance, feeding out insights and interventions."
- UK National Digital Twin Programme

Mark Mergenschroer
Autodesk Tandem

"… a digital replica of a built asset that is a dynamic digital reflection of its physical self.

Bi-directional connections between the physical and digital enable them to possess the operational and behavioral awareness necessary to simulate, predict, and inform decisions based on real world conditions."

Chris Lorrain
LandTech Consultants

"… an interactive digital graphic representation of some element of your facility or process that is utilized to enhance operations of that facility. It could be as simple as a button to press on a screen to start a generator remotely, or a detailed 3D model fully integrated for complete remote operations and maintenance of your facility. It is user defined according to user needs."

Brett Spindler
Schneider Electric

"… a virtual representation of an object or system that spans its lifecycle, is updated from real-time data, and uses simulation, machine learning, and reasoning to help decision-making."
- IBM definition.

"I would omit the specification of machine learning (often not needed where we can make use of other tools to achieve the same goals)."

Q&A

Contact Info

Melanie Stone
mstone@roicg.com

Mark Mergenschroer
Mark.mergenschroer@autodesk.com

Erik Jaspers
Erik.Jaspers@planonsoftware.com

Chris Lorrain
clorrain@landtechinc.com

Brett Spindler
brett.spindler@se.com

THANK YOU!

DIGITAL TWIN TRENDS
FOR THE BUILT ENVIRONMENT

iT Technology Community
A Community of IFMA

Sponsored By

AUTODESK

ROI CONSULTING GROUP

Thank you!

Join One of Our Communities Today!

ESUS
Environmental Stewardship Utilities & Sustainability Community
A Community of IFMA

iT Technology Community
A Community of IFMA

REAL
Real Estate Advisory & Leadership Community
A Community of IFMA

WE Workplace Evolutionaries
A Community of IFMA

For more information visit our Community Web sites:

ESUS.IFMA.org | IT.IFMA.org | REAL.IFMA.org | WE.IFMA.org