

**Efficiency from Digital Innovation**

# **DIGITAL TWINS:** **CONSTRUCTION AND** **INFRASTRUCTURE**

**20th November 2019**

London | United Kingdom

# DIGITAL TWINS

**Challenge Advisory** is delighted to announce the launch of our **Digital Twin Workshop** taking place in heart of **London** in **November 2019**.

This workshop is designed to support the growth and adoption of digital twin technology in construction, infrastructure and estate management.

Created for the industry, Challenge Advisory is presently working with 30 members of their steering committee to build a framework and agenda to build upon the work they have already done, to develop the value of Digital Twins.

They will gather to debate the latest trends and developments for digital twin technology along with the key challenges facing future innovation and investment.

So join the debate and network with key technology adopters, stakeholders, experimenters, market movers and everyone else involved in the value chain.

# STREAMS | Areas of Focus

## Design and Construction

- Automated Progress Monitoring
- As-Built vs As-Designed Models
- Resource Planning and Logistics
- Safety Monitoring
- Quality Assessment
- Optimisation of Equipment Usage
- Monitoring and Tracking of Workers

## Existing Buildings & Infrastructure

- Benefits
- ROI
- Challenges
- Maintenance

## Smart Cities

- Case Study
- 'Dubai'
- Challenges in Established Cities
- What are the Benefits
- Adoption
- City Solutions
- City Optimisation

## Estate Management

- Case Study
- Adoption
- Technology vs Roi
- What are the Benefits





## WHAT TO EXPECT | What is Happening



**Round Tables**



**Tech Demos**



**Digital Transformation**



**Business Development**



**Working with Developers**



**Conference**



**Exhibition**



**1-2-1 Meetings**



**Estate Management**



**Investment Workshop**

# AUDIENCE

Listen, Question and Network with:

- CEO'S

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- CIO'S

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- Heads of Digital

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- COO's

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- Heads of Transformation

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- Heads of Engineering

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- Heads of Supply Chain

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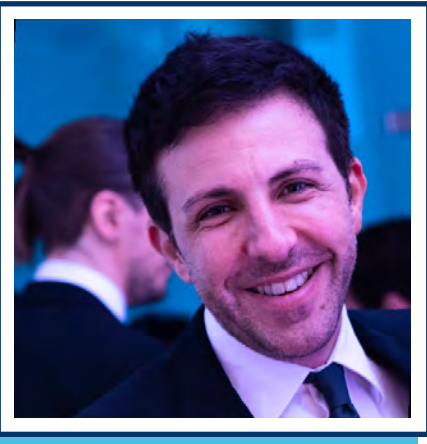


## KEYNOTE SPEAKERS



**Stephen Jeffery**

Chief Technical Officer



**Nicola Rosa**

Lead at Accenture Digital



**Dr. Ashwani Dev**

Digital Lead



**Anton Ruddenklau**

Head of Digital & Innovation



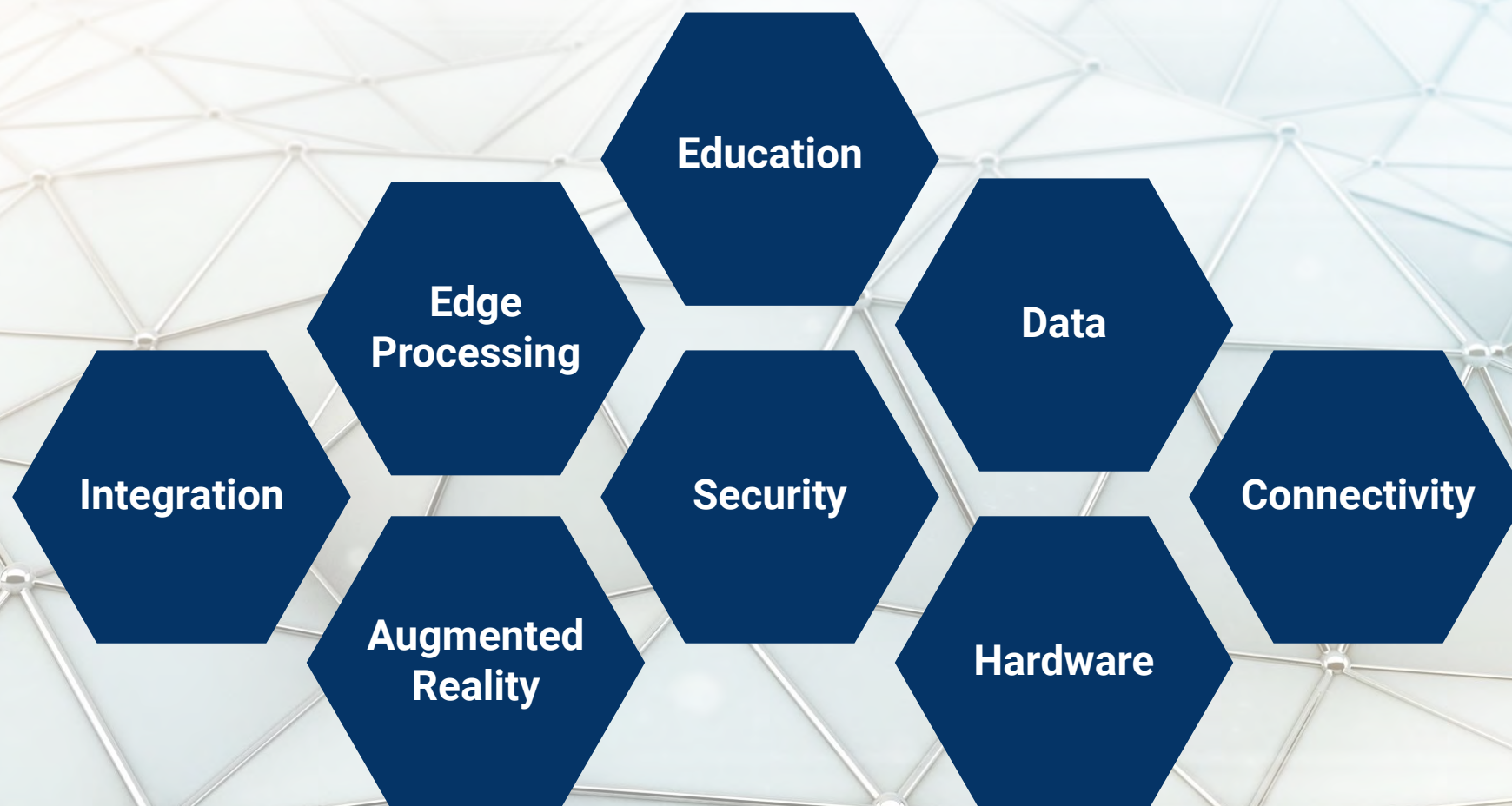
HALLIBURTON



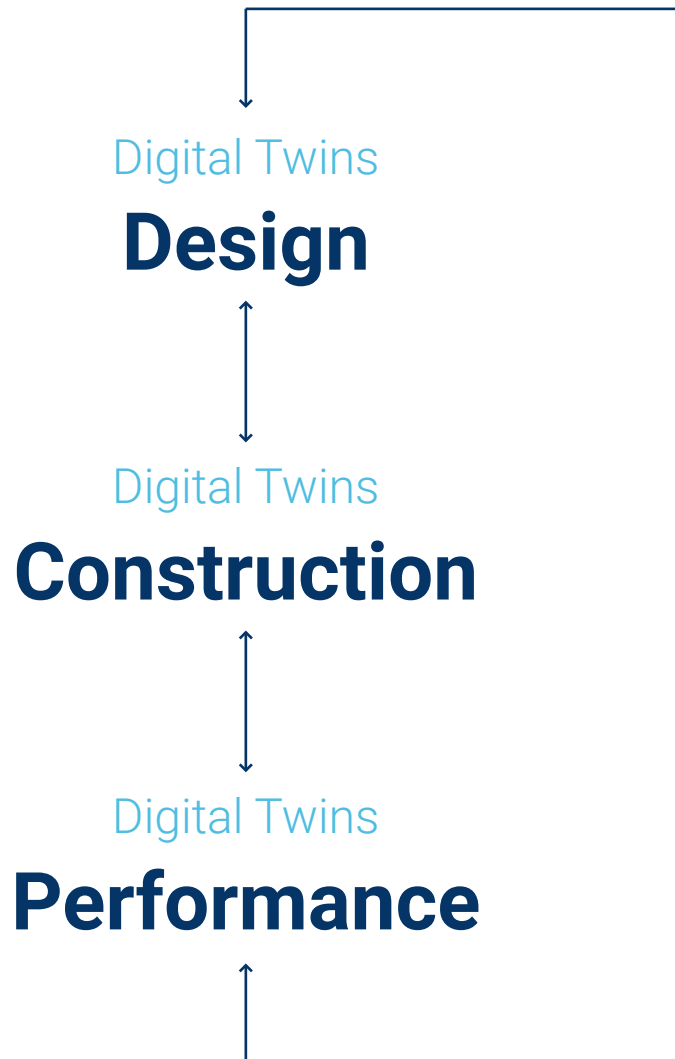


# INDUSTRY CHALLENGES

## | Interoperability

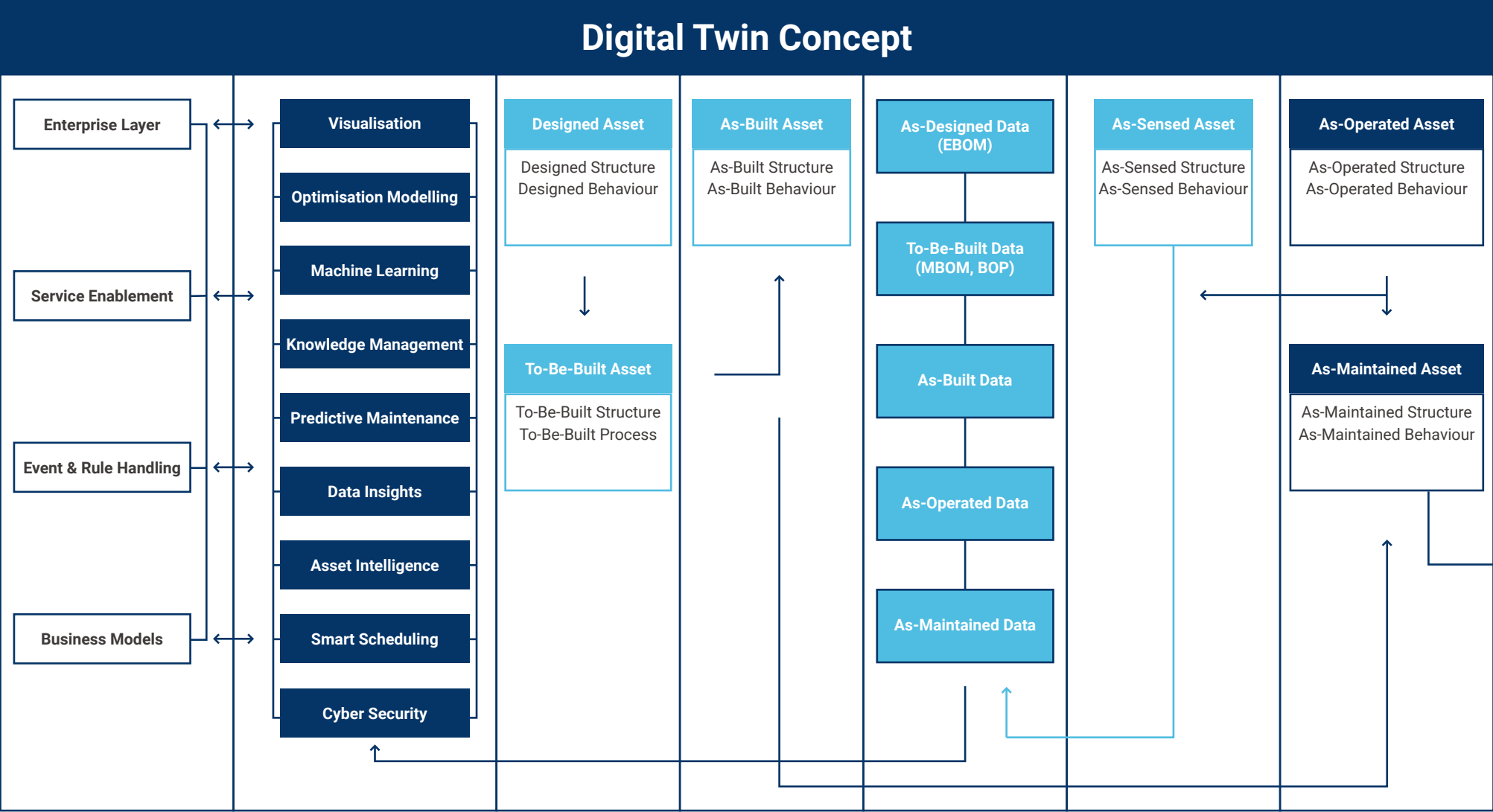


# **BUILDING** | Life Cycle

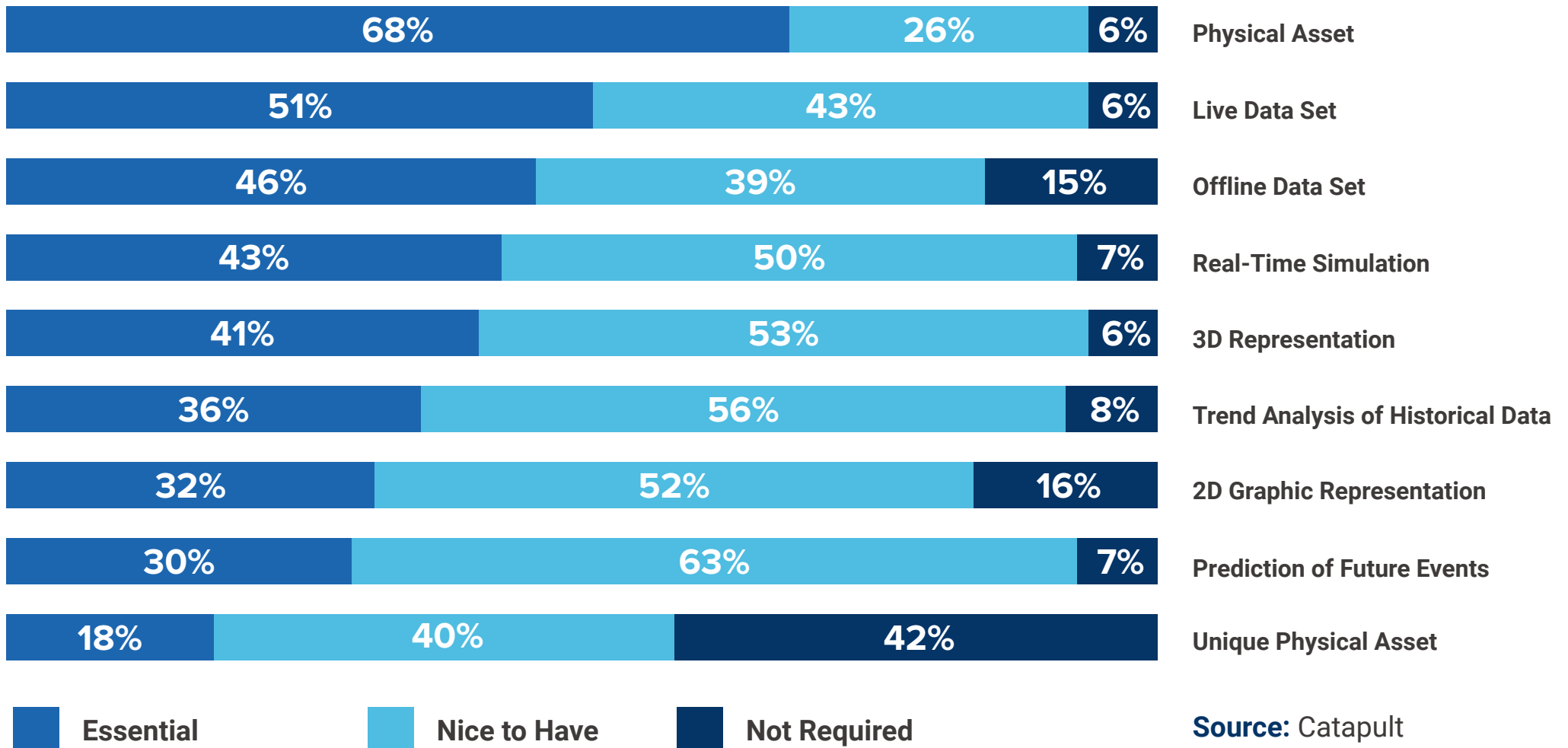




# DIGITAL TWIN CONCEPT | How to Apply



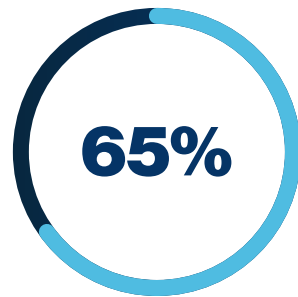
## What components do you think are necessary for a digital twin?



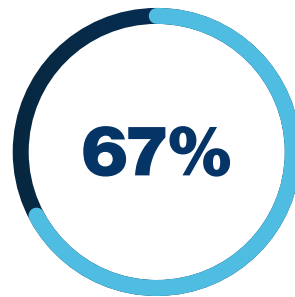
## Which business systems could you see a digital twin either replacing or complimenting?



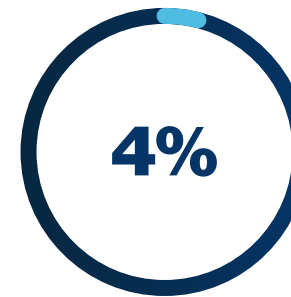
**Monitoring**  
(real time display & reporting of information)



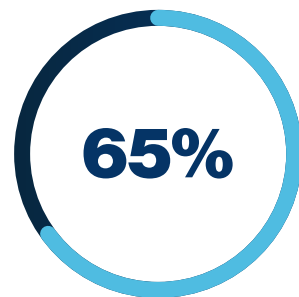
**Trend Analysis from Historical Data**



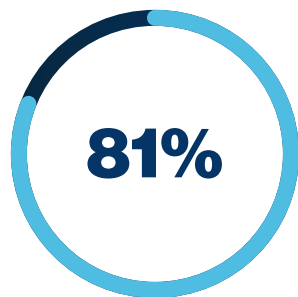
**Prescriptive Maintenance**



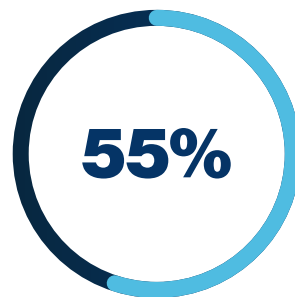
**Other**  
(please specify)



**Interacting**  
(remotely interacting with a system)



**Prediction**  
(Simple model or Discrete Event Simulation - DES)



**Next Generation Product Design**

### Answers to 'Other':

- Training
- Condition-based maintenance
- Predictive maintenance
- Inspection

**Source:** Catapult

# GET IN TOUCH

We'd Love to Hear From You

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