



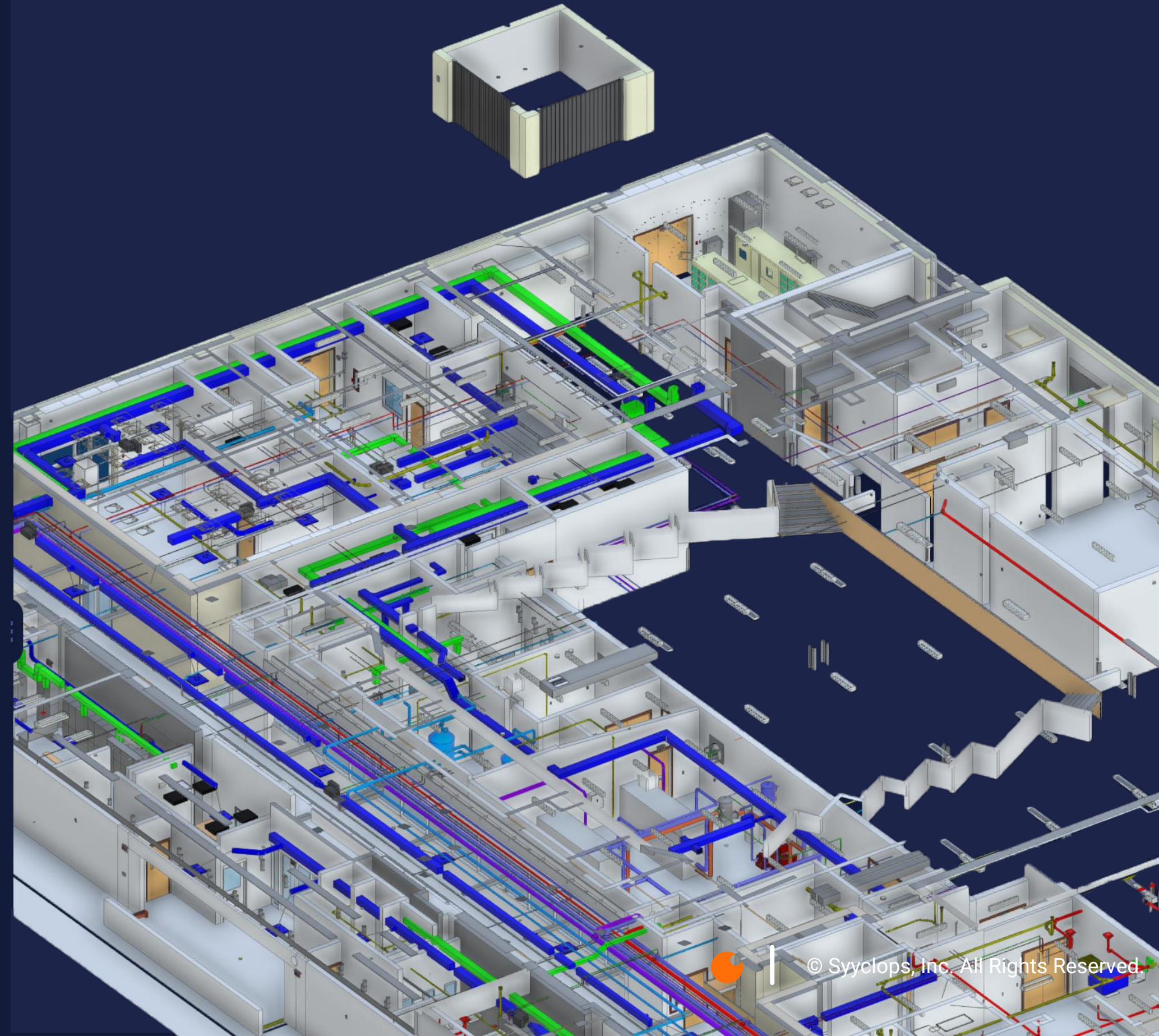
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SYCYCLOPS

Transforming Facility Management with Digital Twin Technology

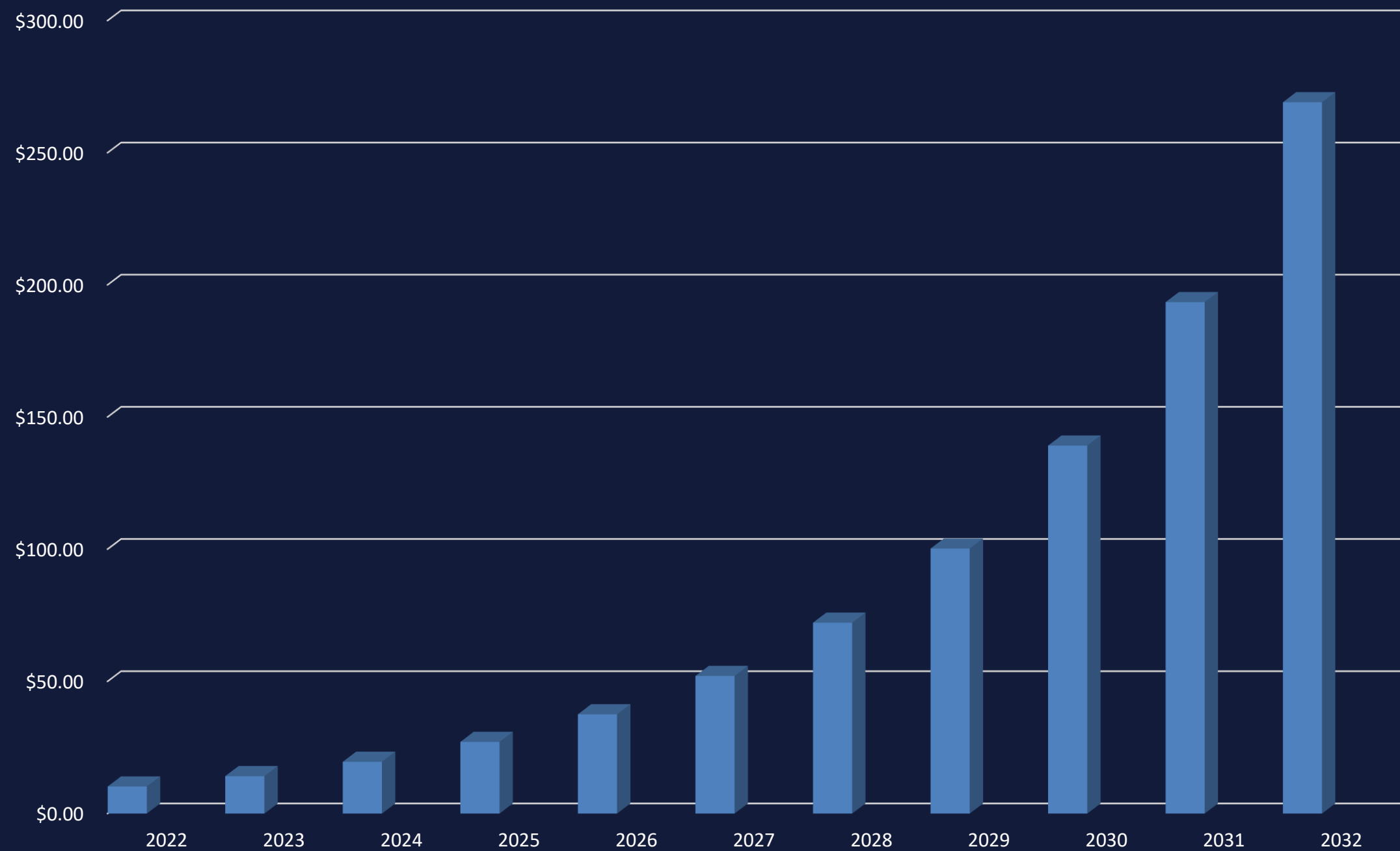
What is a DIGITAL TWIN?

A digital twin is a virtual representation of a physical object, system, or process.



EXPECTED GROWTH

DIGITAL TWIN MARKET SIZE, 2022 to 2032 (USD BILLION)



10-year projection:
estimated 260%
growth by **2032**

Why Now?

- **Smart Building deployment for efficiency and decarbonization goals**
- **IOT Sensor Cost**
- **IOT Sensor Battery life**
- **Wide spread adoption of BMS**
- **Revit and BIM advancements**
- **Low cost data storage**
- **Interoperability standards in place**
- **API's available**
- **Explosion of competing software**

**WE NEED TO GET ADOPT A NEW PARADIGM
IN HOW WE OPERATE BUILDINGS?**

**I BELIEVE THAT EXISTING BUILDINGS ARE
THE CORNERSTONE OF CUTTING EMISSIONS
AND DECARBONIZATION**

*WHAT IS OUR FUNDAMENTAL PROBLEM
THAT WE ARE TRYING TO SOLVE WITH ALL
OF THIS DATA AND OPTIMIZATION*

BUSINESS CONTINUITY

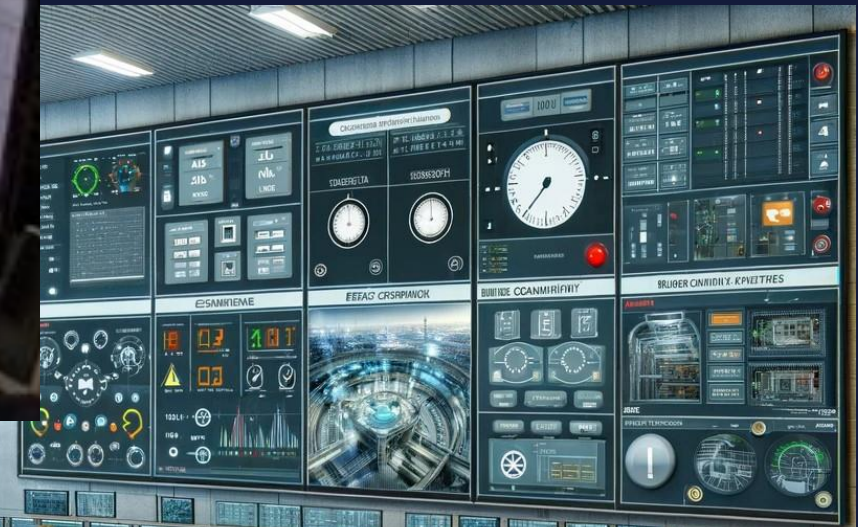
***OPERATE WITH COST AND ENERGY
EFFICIENCY***

BUILDING OPERATIONS & MAINTENANCE TODAY

- Hand over of information
- Energy emission goals and regulations
- Aging workforce
- Disparate Data Silos



DATA OVERLOAD WITH MORE SILOS COMING

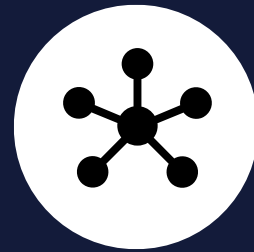


CENTRALIZE YOUR DATA

(Ontology, IDL, Cloud, Digital Twin)



VALUE PROPOSITION OF A DIGITAL TWIN



CENTRALIZE YOUR DATA: As new software and equipment are introduced into your ecosystem, your data becomes decentralized. This leads to complete inefficiency



REDUCE RISK: Instantly access maintenance disparate data silos. Identify and address faulty system information. Predict repairs proactively. Data fidelity, Insurance policy



EMPOWER STAFF: Co-pilot for your office and field staff. Close generational knowledge gaps.

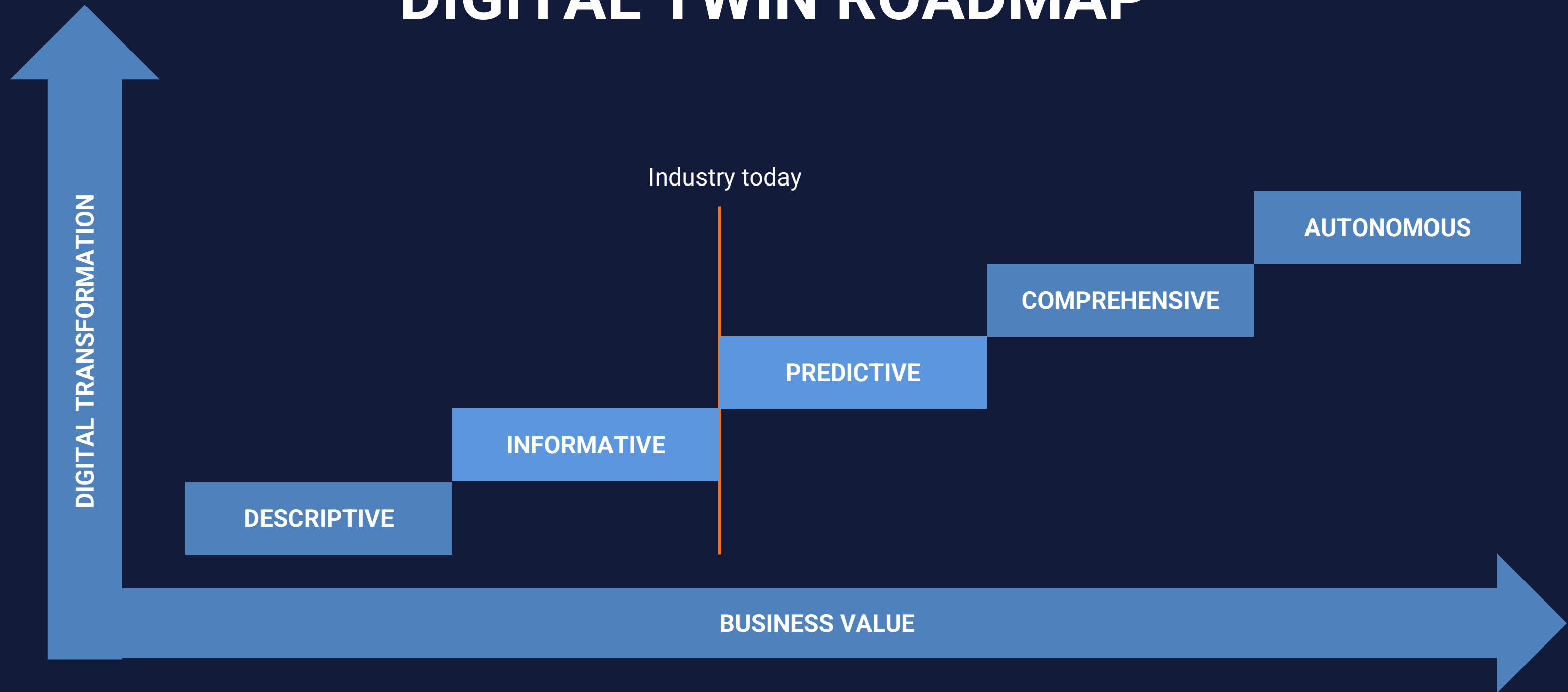


CONTROL COSTS: Reduce the time to find model numbers and operational manuals. The single source of truth. Find efficiencies and prioritize maintenance dollar.



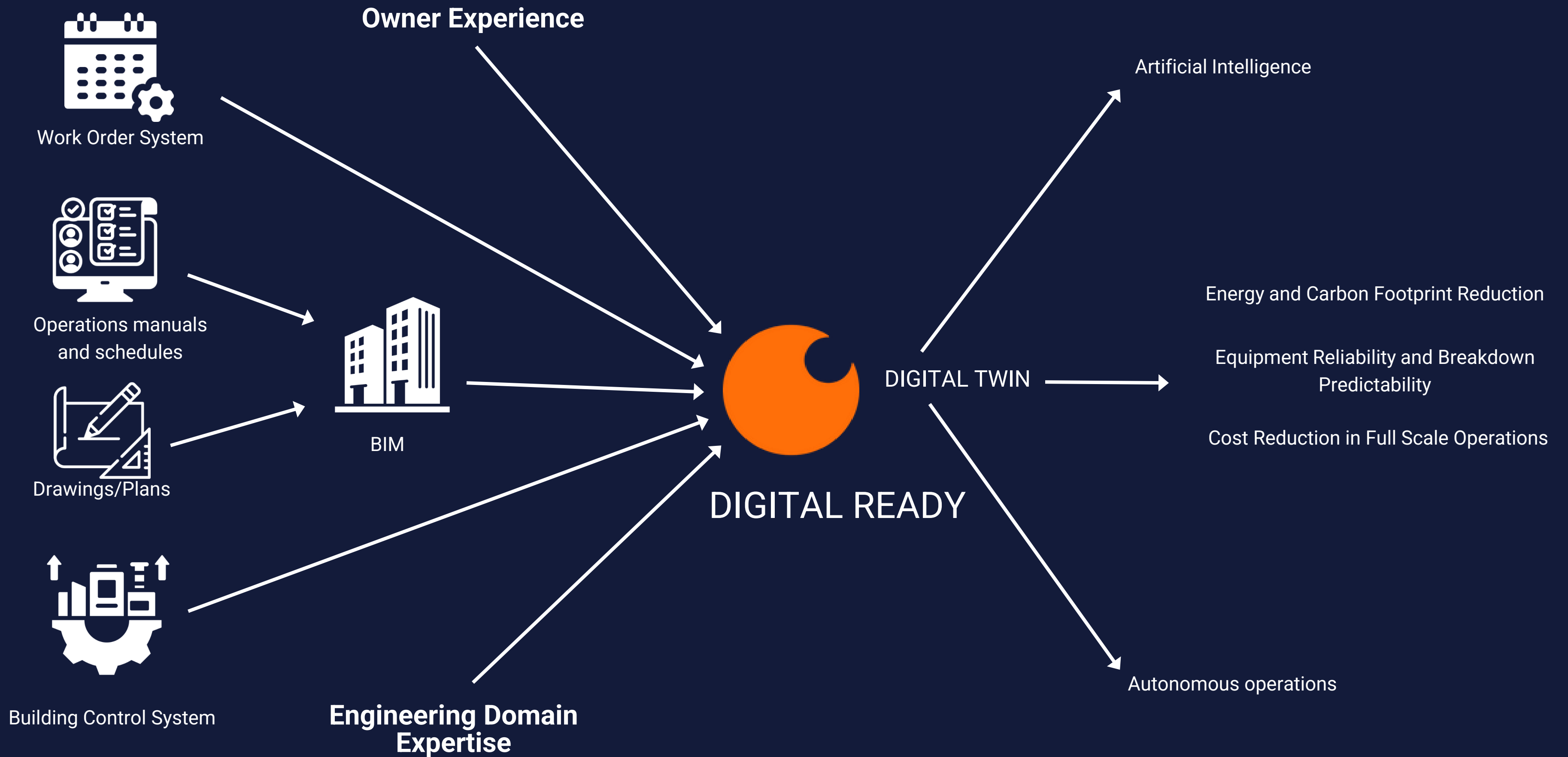
IMPROVE FORECASTING: Business continuity, Perform capital expenditure planning with greater fidelity, fewer surprises.

DIGITAL TWIN ROADMAP

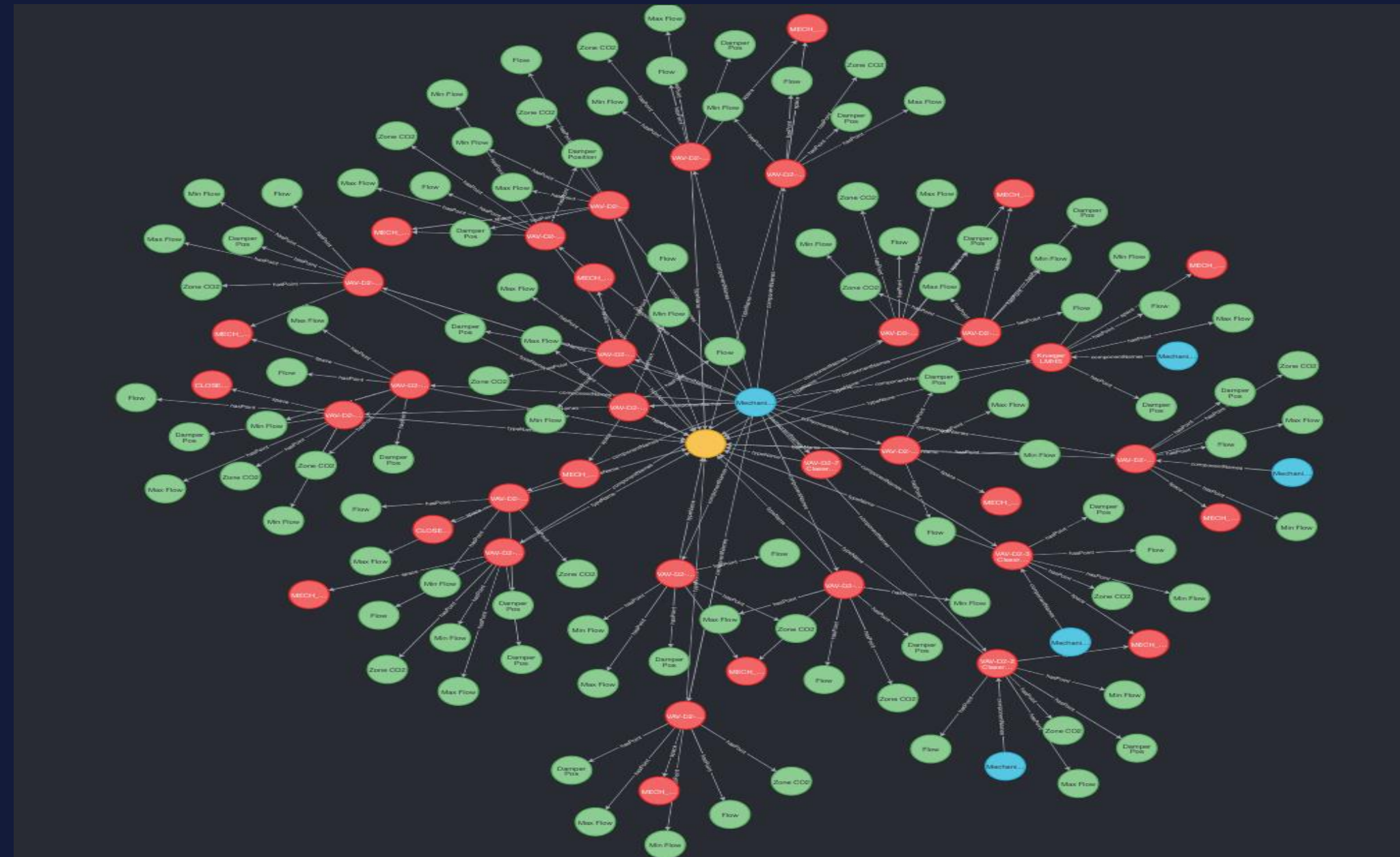


THE SOLUTION

**Dynamic realtime data with a
navigable static model based
on a COBIE ontology**



COBIE ONTOLOGY AND THE KNOWLEDGE GRAPH



Asset Inventory

Search Inventory...

Filter Category

- Architectural
- Mechanical
- Electrical
- Plumbing

Architectural

- Beams
- Casework
- Chairs
- Coiling Doors
- Columns

Show All (154) ↓

Mechanical

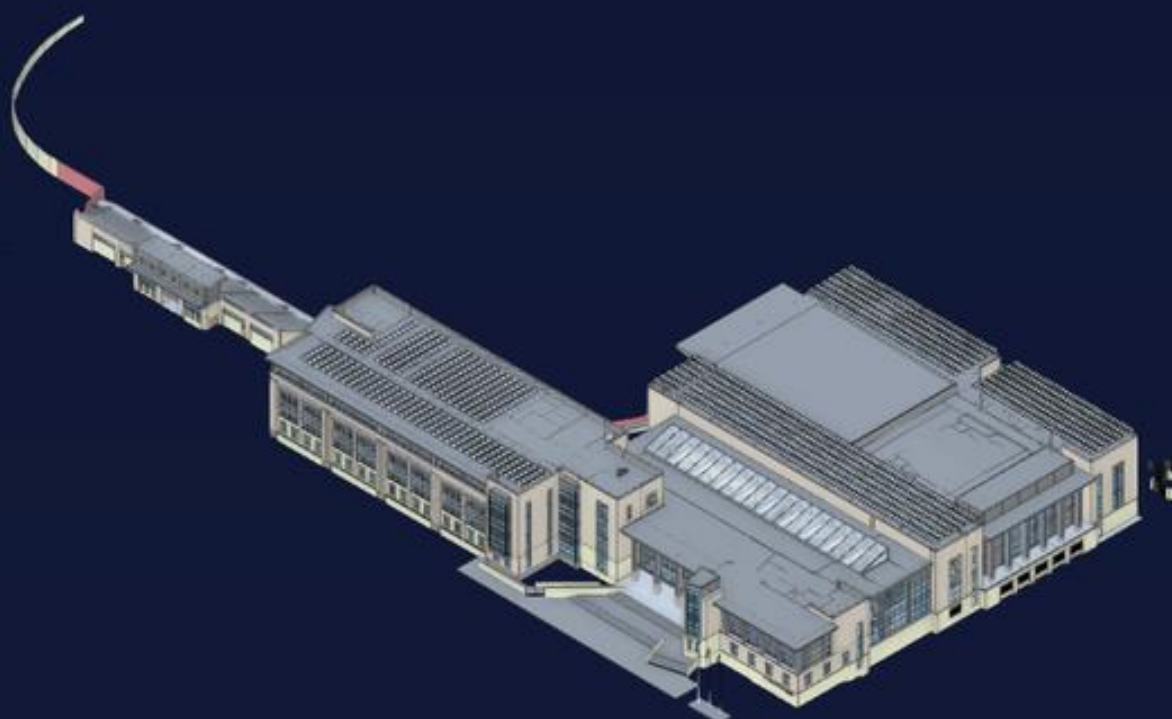
- Air Ductwork
- Climate Control (HVAC)
- Exterior Louvers and Grilles
- Power Ventilators
- Air Filters

Show All (15) ↓

Electrical

- Alternating Current (AC) Motors
- Distribution Boards and Control Panels
- Engine Generators
- Exterior Floodlights
- Ground Fault Receptacles

Show All (29) ↓



Select Level ...

- Architectural
- Electrical
- Mechanical
- Plumbing
- XRAY

Indoor Air Quality



Space Comfort



Work orders



Energy



Anomalies



Condition Assessment "RUL"

M283	\$976.6K	A3.3K	\$0
P1	\$0	P106	\$0
A120	\$0	M24	\$0
E3	\$0	E10	\$0

2023 2028 2033 2038

Cost estimation on Oct 16, 2023

Preventative maintenance 2023 Q4



Thank you

Contact Us



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