

Monitor, Visualize, Control and Optimize assets

e-Magic TwinWorX®:

Integrates facility telemetry data into a 3D Digital Twin that enables you to Monitor, Visualize, Control and Optimize assets. It is a scalable solution for companies in a wide range of Industries.



Buildings



Infrastructure



Facilities



Manufacturing



See what customers are saying:

"e-Magic's excellent team and great leadership have been tremendous in supporting the CU Boulder objective to provide excellent utility services by helping us navigate through the age of big data management and process control system implementations with clear and concise consulting and technical expertise that has resulted in incredibly beneficial financial and operational outcomes for the University."

U. N. Bhatnagar, Director, Utility and Energy Services University of Colorado, Boulder

Are these challenges preventing you from improving asset utilization, operational efficiencies and reducing costs?

- Large volumes of data from many devices and systems are being generated and stored in disparate silos that *cannot be easily analyzed* and turned into information and insights.
- *Difficulty balancing* the pressure to drive down costs to improve NOI while maintaining comfort and high-quality service levels
- *Increasing cybersecurity threats* resulting from the expansion of OT and IT within the organization
- *Costly unplanned downtime* resulting from equipment failures, insufficient resources and scheduling challenges
- *Insufficient operational improvements* that are needed to meet sustainability goals

TwinWorX

MONITOR - VISUALIZE - CONTROL - OPTIMIZE

TwinWorX® Explore: Visualization of IoT Information,

Centralized monitoring and control via Single Pane of Glass; users have the ability monitor, visualize, control and optimize facility operations from a dynamic dashboard configured to their role and needs

Portfolio View

Monitor, manage and control operations across a whole portfolio or campus.



Companies using TwinWorX® can realize a host of benefits and strategic value including:

- *Save on Energy costs and improve energy utilization*
- *Decrease downtime from unplanned maintenance*
- *Reduce operational maintenance costs*
- *Improve process efficiencies and automate workflows*

Built on Azure Services

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| Azure Digital Twins | Azure IoT Hub |
| Azure Stream Analytics | Azure App Services |
| Azure Time Series Insights | Azure PostgreSQL |
| Azure Event Hubs | Azure BLOB storage |
| Azure Machine Learning | Azure IoT Edge |
| Azure Maps | Power BI |

TwinWorX® Insights: Analytics & Insights

Through aggregation, storage, and analysis of data, TwinWorX® performs alarming, reporting, fault detection and diagnosis (FDD), predictive maintenance and optimization.

Azure Digital Twins

Things, places, people and processes are modeled using the Digital Twins Definition Language (DTDL) and mapped using industry specific ontologies (e.g. RealEstateCore for smart buildings, NGS-LD for smart cities).

Interoperability and connectivity

TwinWorX® features 500+ system and equipment connectors which connect you to the built world, sensors, business systems, equipment and other data points.

