

THE INTEGRATED FACTORY VISION

The truth about factory planning

The truth is that most factory planning projects do not meet time and cost goals: 60% are over time and 72% are over budget. While these projects come with their unique challenges, there are also broader, more significant headwinds such as supply chain unpredictability, delivering EV, achieving sustainability goals, and maintaining growth in an extremely competitive labor market.

As manufacturers continue to make digital investments to meet these challenges, leaders are continuously under pressure to generate business value from these investments. Focusing on several key accelerants of ROI will help to achieve these goals:

» Optimized operations

Optimizing your operations translates into faster decision making, addressing sustainability and improved time to volume.

“By 2023, **40% of manufacturers** will combine their shop floor digital twin with real-time signal transponder data, leading to a **30% reduction** in production throughput time.”

» Data-led decision making

Data leads to information that provides actionable decisions. It is these decisions that create business value.

“In 2022, **25% of G2000 firms** will deploy technologies imbued with data manipulation and visualization capabilities, driving collaborative productivity.”

» Digital ecosystems

Ecosystems that work collectively with shared objectives can add value in multiple ways.

“**60% of worldwide organizations** identify industry ecosystems as a key technology investment in the next two years.”

60%
OVER TIME

72%
OVER BUDGET

30%
LESS PRODUCTION THROUGHPUT TIME

Jump start the ROI accelerants

Organizations that have implemented integrated factory modeling have seen:



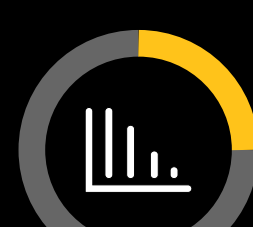
TIME-TO-VOLUME DECREASE BY

20%



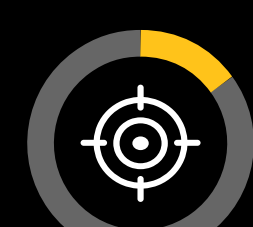
COST-TO-MARKET DECREASE BY UP TO

25%



TIME-TO-MARKET DECREASE BY

25%



OPEX DECREASE BY UP TO

15%

By coordinating each phase of the factory lifecycle and connecting everyone involved, integrated factory modeling results in improved time-to-market, an optimized factory design, expanded and diversified services, improved collaboration, and reduced errors and rework.



Optimize the factory design

- » Coordinate manufacturing, production, and the building facility during the factory design process
- » Improve operational startup



Integrated factory modeling actualizes the vision

- » Leverage a single set of data shared internally and externally to partners
- » View a real-time 'digital twin' of the factory to make better decisions



Expand and diversify services

- » Utilize the ability to provide 3D scans of building components, media supply, or supplier equipment
- » Digitize existing equipment for use in modern environments to avoid rework



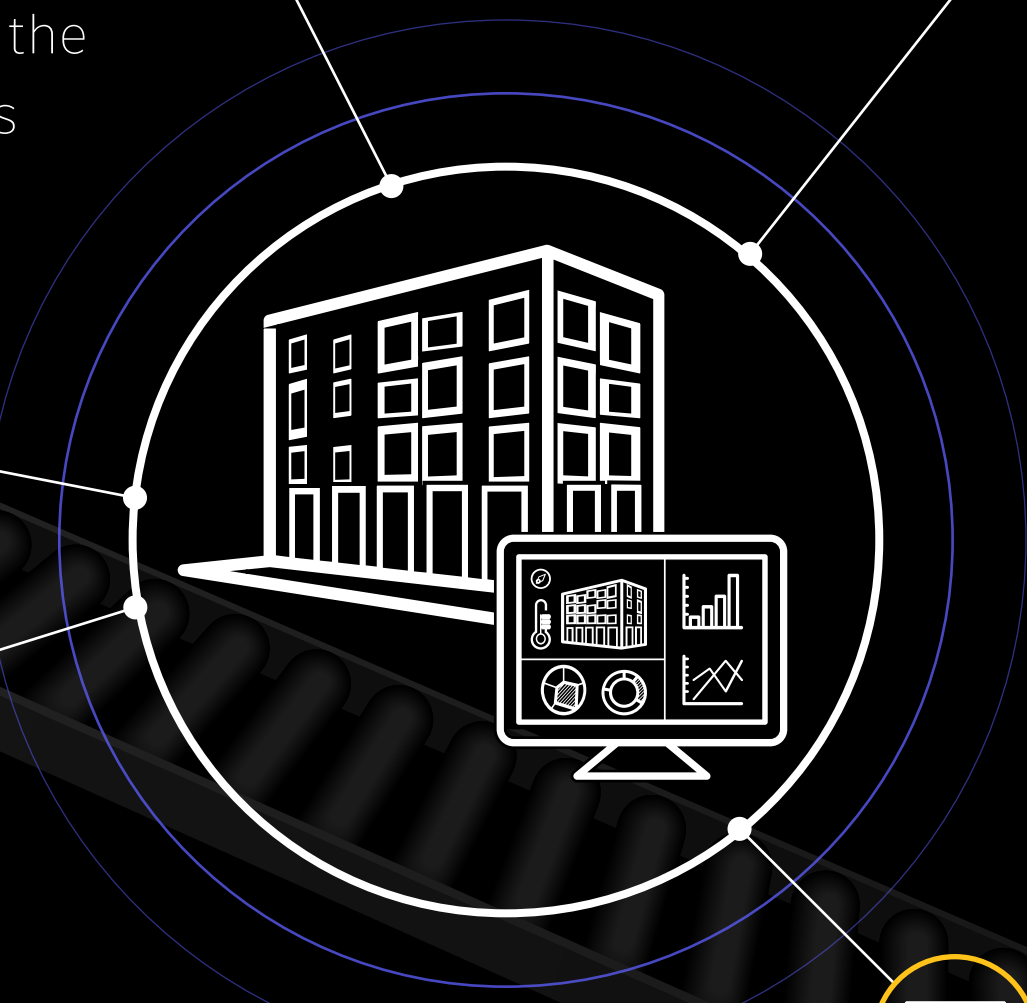
Improve time-to-market

- » Continuously simulate and assess the factory environment with improved data
- » Operate a more efficient and effective follow-the-sun engineering model



Reduce errors and rework

- » Optimize the location of systems prior to line layout
- » Integrate suppliers and their planning disciplines into all planning tasks, creating a single set of data



Want to learn more about integrated factory modeling?

Visit our Solution Center

