

DESIGN SYSTEMS, INC. Manufacturing Engineering & Consulting

Excellence by Design

Digital Twin Roadmap Industry 4.0 is a PROCESS, not an end result

Path to Success

The future of manufacturing is Industry 4.0. Many companies are struggling to define what that means to their specific operations. Design Systems, Inc. can leverage our decades of experience in manufacturing and supply chain engineering to create a technology and operational roadmap to achieve desired goals for the Manufacturing Digital Twin.

Digital Twin • Industry 4.0 Facility Replica • Continuous Improvement

MITS (MES) Plant Vizualization and Production Monitoring

Virtual Commissioning Validate Control Programming Before Installation

Process Simulate Process Design Validation and Optimization

Plant Simulate Throughput and Bottleneck Analysis

3D Modeling Processes, Systems and Facilities

Laser Scanning **Capture Current Conditions Digitally**

Key Benefits

Continuous quality improvement for operations

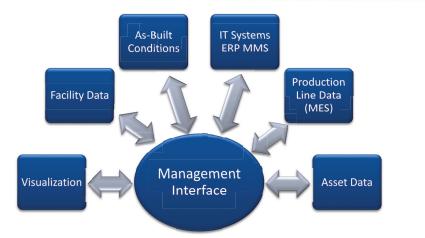
Data driven decision making

Virtual engineering test and validation

Improved ergonomics and safety

Predictive and preventive maintenance

THE RIGHT DATA TO THE RIGHT PEOPLE AT THE RIGHT TIME



DESIGN SYSTEMS FAMILY OF COMPANIES

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Real-World Applications

- Current state evaluation
- Future state planning
- Standards development
- Digital Twin creation
- Mentoring of client staff

DSI DELIVERS

- Clear Digital Twin Vision.
- Non-disruptive to ongoing operations.
- Integration of facility and asset data. \blacklozenge

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