From digitization to digitalization with NextGen Manufacturing Execution System (MES)

INFO**V**ISION
#AccelerateDigital

Customer overview

Since December 2019, InfoVision has been the trusted technology partner for **one of India's largest integrated steel manufacturers**, with a production capacity of **28.5 million tons per annum (MTPA).** This industry giant, with multiple plants in India and outside, plays a pivotal role in India's industrial landscape and operates across multiple sectors, including energy, infrastructure, cement, paints, sports, and venture capital.

Transforming manufacturing with NextGen MES

With InfoVision's expertise, the customer transformed disparate and outdated systems into a robust, modern MES platform, closing operational gaps and delivering a high-performance, future-ready solution with near-zero downtime.

This shift from digitisation to digitalisation enabled real-time data access, scalable operations, and efficient, integrated processes.

As part of our **100% Managed Services** engagement, InfoVision took full ownership—from assessment to ongoing support—ensuring seamless operations and long-term scalability.

From challenges to high impact solutions

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Challenge

Legacy systems hindered scalability & efficiency, slowing processes and reducing capacity.

Fragmented systems prevented real-time insights and limited decision-making.

Legacy systems struggled to integrate with ERP and L2 systems, causing inefficiencies.

Legacy technology restricted growth and adaptability.

Performance bottlenecks

Data Silos

Integration Issues

Outdated Technology

Delivered a scalable MES architecture built on microservices, ensuring high availability, performance, and scalability.

Built a unified system, enabling real-time data synchronization with ERP for better decision-making and proactive management.

Deployed a cloud-ready MES platform, seamlessly interfacing with ERP and L2 systems to ensure smooth operations and data flow.

Replaced outdated systems with a modern tech stack—Microservices, PostgreSQL, and Kafka—for flexible, high-performance data management and scalability.

Solution

Business outcomes

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→ **Boost in performance & scalability.**

→ **Real-time visibility for better decision-making.**

→ **Unified operations.**

→ **Easier to use, scale and expand.**

Managed services
Ensuring continuous excellence
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InfoVision continues to implement the project end-to-end as a fully managed service, providing:

Dedicated operational teams

Continuous monitoring and optimization of MES performance.

End-to-end responsibility

From system design to implementation and post-launch support.

Scalable solution

Future-proof architecture designed to scale seamlessly across the customer's operations and adaptable for other large-scale manufacturers.

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Impact & results
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100%
uptime

2X
Boost in performance

>25%
Cost reduction

Transforming manufacturing @ scale
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This MES transformation is an ideal model for manufacturers aiming to achieve:

Scalability

Easily expands across locations and industry verticals.

Cost efficiency

Drives operational savings while boosting performance.

Operational continuity

Delivers zero downtime, ideal for 24/7 production.

Future-proofing

Flexible design ensures long-term adaptability.