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Building the Future: The Role of Digitalization in Modern Steelmaking

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In the realm of modern steelmaking, digitalization has emerged as an equally critical component as physical project construction. This article explores the pivotal role of digital twins and a common data environment in advancing the digital strategy.

The approach leverages digital twins to create precise virtual models of the physical assets, facilitating real-time monitoring, predictive maintenance, and enhanced decision-making. This digital mirror not only optimizes operations but also drives efficiency and sustainability.

A common data environment serves as the backbone of the information management system, ensuring seamless data integration, accessibility, and collaboration across all project phases. This guarantees that all stakeholders operate with a single source of truth, enhancing transparency and reducing errors.

Embarking on this digital journey from scratch presents both opportunities and challenges. It allows to implement best-in-class technology and set a solid foundation for future advancements.

This digital strategy aims to set new benchmarks in the steel industry, demonstrating that digitalization is not just an adjunct but a core element of modern steelmaking. This experience underscores that embracing digital innovation is essential for achieving operational excellence and long-term sustainability.

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