

# ENI DIGITAL TWIN

ENI Digital Twin is a powerful, intuitive software solution that transforms real-time data into actionable insights. It creates and manages dynamic process models, empowering teams to optimize performance, track KPIs, and uncover process constraints. With in-depth monitoring, soft sensing, and troubleshooting, it allows users to test scenarios virtually before applying them in the plant. By democratizing access to simulation tools, it provides a consistent, real-time view of plant performance for all skill levels. ENI Digital Twin drives value, reduces inefficiencies, enhances decision-making, and enables plant-wide optimization with lasting impact. It bridges the gap between operations and planning teams, fostering collaboration and continuous improvement.



## **The Challenge: Staying profitable amid fast-changing supply, demand, and regulatory shifts.**

In today's interconnected world, disruptions in one area can quickly affect supply and demand elsewhere. Rapid market shifts and evolving regulations demand agile decision-making in plant production and investment planning. This requires assessing incoming changes, optimizing unit operations, reducing inefficiencies, boosting workforce productivity, and making specialized tools accessible to all.

## **The Opportunity: Tapping into New Levels of Value**

Process Digital Twins are crucial for achieving operational excellence by offering detailed insights into optimizing unit operations, tracking key performance indicators (KPIs), and monitoring process constraints. They serve as a soft-sensing tool, bridge gaps between planning and operations teams, and provide a unified platform for engineers, planners, and operators of any skill level to test scenarios in a virtual model of the manufacturing process. With calibrated models, Digital Twins offer a unique perspective on the past (root cause analysis), present (KPI tracking), and future (predictive analysis) of processes and assets—without the risk of costly downtime in the plant.

## The Solution: ENI Digital Twin

ENI Digital Twin is a comprehensive software solution that manages, contextualizes, and analyzes real-time data. It utilizes first-principles-based models, calculations, and analytics to provide actionable insights for performance monitoring, troubleshooting, soft sensing, what-if analysis, and updates to planning.

A web-based interface delivers insights with customizable graphics, flexible reporting, and role-based access. It can integrate existing simulations, models, and graphics for faster deployment. Built on years of experience in Oil & Gas, Refining, Petrochemicals, Chemicals, Steel, Fertilizer, and industrial software, ENI Digital Twin drives smarter, data-driven decision-making.

### For More Information

Learn how ENI can optimize your industrial operations with advanced engineering solutions. Visit [www.enianalytics.com](http://www.enianalytics.com) or contact ENI for tailored consultations and support.

### ENI

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