



Multinational Pharma Plant Gets “Lean”

**Visual MES Solution Unifies and Streamlines
Manufacturing Operations**

A Decisyon App Composer™ Digital Factory Solution

A multinational pharma plant that produces innovative drugs wanted a unified solution to make its manufacturing operations more efficient.

In the highly regulated pharma industry, manufacturers often have multiple, dedicated IT systems — centralized and local — and require a 360-degree, real-time view into plant operations.

The pharma leader selected Decisyon App Composer™ (DAC) to build a solution that would connect its people and processes together in one highly efficient environment. By combining data, processes, SAP systems, and machines into a smart manufacturing solution, the company had the right data and decision-making power at its fingertips on the plant floor. Once the Visual MES solution was deployed, the company benefited from visual management and lean manufacturing principles throughout its manufacturing operations worldwide.

AT-A-GLANCE

Visual MES Solution for Large Pharma Plant

- A large, multinational pharma plant needed to improve its manufacturing operations and efficiency.
- The company required a digitized environment for collaboration, information sharing, and decision making across plant operations, and manufacturing sites worldwide.
- Decisyon Digital Factory provided a Visual MES solution that spanned multiple facilities, and integrated plant operations across disparate systems and processes.
- The Decisyon Digital Factory solution improved operational communications, provided a 360-degree view of the entire operation (better decisions, improved processes, risk mitigation), and helped reduce costs through automated data collection and proactive intervention when issues would arise.



Decisyon App Composer (DAC) is the flagship product of Decisyon, providers of the industry's only visual app-building environment with rich built-in services to accelerate the design, development, sale and deployment of IoT solutions, without requiring coding.

THE CHALLENGE

Improve and Digitize Existing Production Processes, Integrate Disparate Systems

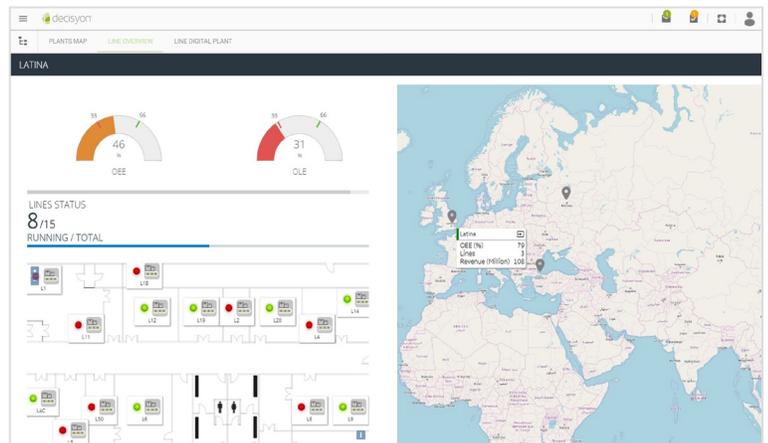
Like many pharma manufacturing plants that haven't yet digitized their operations, the company found that direct communication between its departments, plant floor managers, and management was an ongoing challenge. As an example, the customer's management operations department wanted to improve the existing production processes with a more digital and collaborative flow of information, and painlessly connect plant systems to streamline information flows and integrate plant operations. That required connecting ERP, MES, SCADA, LIMS, and MHS systems as well as legacy systems, financial data, energy data and unstructured data. They needed to capture detailed data from the shop floor in real time, in order to proactively resolve any issues. The pharma company envisioned a solution where it could use data analysis, visual presentation, and "what if" scenarios to rapidly make decisions, then execute those decisions directly back into plant processes to achieve the desired outcome.

THE DECISION DIGITAL FACTORY SOLUTION VISUAL MES

Visibility Across the Entire Manufacturing/ Production Process

The DAC Visual MES plant solution spans multiple facilities, integrating plant operations across disparate systems and processes. The solution's main workspace is a "virtual control room" that provides a single point of management and control for all manufacturing operations. The virtual control room is driven by data and systems from multiple plants and facilities, visualized on a series of pages representing different manufacturing areas.

Using the Visual MES solution, managers and operators can leverage all of the structured and unstructured data coming from the existing systems and from the field within a unified environment. Visual MES digitally reproduces the entire production value chain while controlling quality, warehousing, packaging, and other steps in the supply chain and manufacturing process. If a problem arises, the team collaborates around specific data points and makes decisions quickly using the solution's built-in tools to analyze data and perform "what if" simulations.



The team can easily share information across all stages of operations, as well as automatically schedule and execute plant processes, operations, and problem resolution in a native collaboration environment.

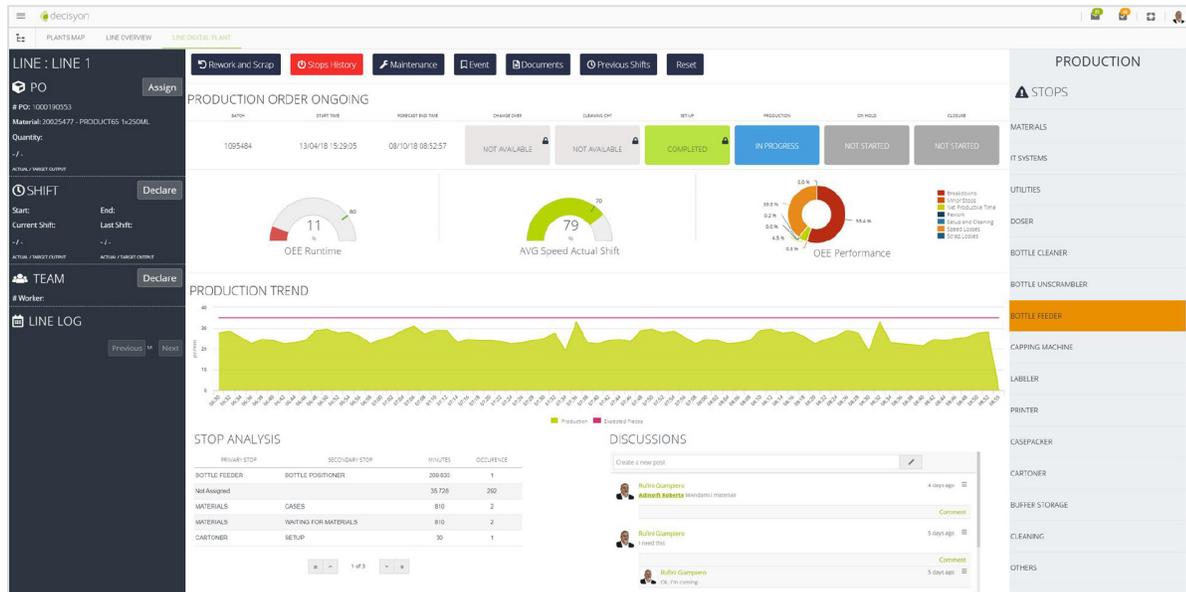
The Decision Digital Factory solution delivers the following benefits:

- A 360-degree, 'meta-view' of plant operations
- Improved manufacturing team communication via the "social" plant
- Optimized production processes, yielding greater overall efficiency across their operations

OPERATIONS PAGES

Operations Pages Deliver End-to-End Production Management

From each of the operational areas of the virtual control room, teams can drill down into pages that connect them to relevant data, processes, and manufacturing-related objects for each unit. Pages can be built and modified by the company dynamically using DAC's "collaboration widget" technology. Teams can organize all of the relevant information such as live data streams, KPIs, data-visualization, and collaboration in context to the processes and workflows.



These pages and their widgets visually represent the status of production line activities by collecting data from operators and equipment in real time. Teams can manage discussions and assign tasks, create areas, groups and initiatives for every department or process across many departments. Communication, scheduling, and workflow occur within the digital plant solution, rather than in emails, chat rooms, and meetings. By enabling collaboration between departments, the Visual MES solution has dramatically improved the company's ability to share information and address problems before they became critical.

Using the operations pages in the Visual MES solution, the pharma company is now able to:

- Drive line operations and management checks from a single access point
- Align processes with goals – showing status and KPIs
- Readily view production status and performance
- Collect and merge data from any source – avoiding duplication

OVERALL BENEFITS

Connecting People, Processes, and Data Across Manufacturing

The pharma customer reports significant cost savings and improvements in plant operations as a result of implementing the Digital Factory solution. The company has realized major benefits such as:

- **Improved operational communication:** Achieved through in-context collaboration, reducing the need for phone calls, emails, and meetings between operators, managers, and departments
- **A comprehensive view of its entire operation:** Yielding better decisions, improved processes, and better risk management
- **Reduced cost:** Achieved through automated data collection and more timely intervention when issues arise



About Decisyon

Decisyon enables business users to rapidly build solutions using a code-free visual software development environment. Our products accelerate your data journey from aggregation to visualization, insight, analysis and decision thru action. Decisyon offers the leading code-free visual software development environment for mission critical enterprise operations requiring real-time awareness and adaptability to their business operations and processes. We have developed and deployed many vertical solutions for the manufacturing, renewable energy, aviation, pharmaceutical, financial services, transportation and automotive industries. With built-in microservices such as data management, BI, mashboarding, rules engine, collaboration and execution, Decisyon offers a dramatic increase in speed to outcome for building and modifying vertical solutions. Decisyon's products and software solutions, ideally suited for IIoT applications running on any PaaS, are used in over 200 companies globally. Decisyon is headquartered in San Francisco, California.

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