

MANUFACTURING EXCELLENCE FOR BIOPHARMA

Boost agility and performance of your global manufacturing operations to produce high-quality medicines



ENHANCE EFFICIENCY AND TRACEABILITY ACROSS DEVELOPMENT, MANUFACTURING AND THE SUPPLY CHAIN TO INCREASE TIME TO MARKET.

To meet rapidly evolving demands, pharmaceutical companies must maximize efficiency and produce high-quality, innovative therapeutics at reduced costs. At the same time, companies have to rely on a strong value network to industrialize faster and adopt new production methods to provide these treatments to patients worldwide.

While companies struggle to efficiently analyze vital data and information for their global manufacturing operations, there are numerous opportunities to reduce technology transfer costs, lower risks, address global regulatory constraints and enhance operating performance throughout the value network. Opt for the **Manufacturing Excellence for Biopharma** Industry Solution Experience — enabling companies to boost operational agility and produce high-quality medicines.

Key benefits:

- Up to 30% increase in production capacity
- Drive to zero batch failure and deviation
- 25% reduction in time-to-market and batch release time

Engineer, predict processes, and virtually commission lines and plants before real implementation

As pharmaceutical manufacturing lines transition towards small batch production of precision medicines, companies need to achieve end-to-end manufacturing line optimization to produce sustainably.

Companies must adopt a new paradigm to synchronize recipes with industrial assets and enable full visibility for all stakeholders to collaborate effectively. This is possible with **digital manufacturing**, which enables companies to standardize and optimize processes while scaling up knowledge and the reuse of data across the entire product lifecycle.

With **Manufacturing Excellence for Biopharma**, engineers are better aligned with the recipe and they can model, optimize and commission the production line virtually before a single product is physically produced. It allows engineers to quickly understand and implement recipe engineering changes as well as adapt the production line on-demand to accelerate new product introduction (NPI) without additional costs and delays.



Improve production and quality control throughput through synchronization and execution of global operations

The main challenge for companies is to synchronize quality control and all manufacturing operations across the value network as they strive to consistently produce high-quality medicines to patients worldwide.

Manufacturing Excellence for Biopharma reinforces corporate unity by managing information from global manufacturing operations in one single environment.

Streamlined forecasting, **planning and scheduling** are essential to driving manufacturing profitability. The solution supports this by providing powerful production flow synchronization across corporate, plant and quality control levels with constraint-based resource optimization.

By preparing equipment with the right parameters, operators and quality control analysts, companies can reduce inventory and batch release time. Accurate data collection and analysis allows for faster root cause analysis while avoiding production downtime.

Optimize quality and production capacity across the manufacturing value network

Complete visibility over critical operations is crucial for all pharmaceutical companies to comply with regulatory authorities, maintain consistent quality while improving production capacity.

Manufacturing Excellence for Biopharma provides a real-time view of global manufacturing operations to maximize process performance, quality and compliance risks. The solution enables easy data access, automated aggregation and advanced contextualization.

Real-time monitoring enhances decision-making in batch production and promotes a data-driven culture for sharing knowledge and collaborating to prevent issues. Companies can create a robust and sustainable commercial production process **by monitoring, predicting and correcting critical production operations** in real time through automated alerts.

Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating virtual twin experiences of the real world with our 3DEXPERIENCE platform and applications, our customers can redefine the creation, production and life-cycle-management processes of their offer and thus have a meaningful impact to make the world more sustainable. The beauty of the Experience Economy is that it is a human-centered economy for the benefit of all –consumers, patients and citizens. Dassault Systèmes brings value to more than 300,000 customers of all sizes, in all industries, in more than 150 countries. For more information, visit www.3ds.com.

