



# Helping a global biopharmaceutical organization optimize their supply chain through data insights

## Operate | Data modernization and digital manufacturing

### The challenge

The client is a multinational pharmaceutical company with operations around the world.

They lacked supply chain visibility, which cast a shadow over operational efficiency. This not only led to inefficiencies but also exacerbated manufacturing problems, frequently necessitating time-consuming, hands-on interventions. Organizational and technological complexity that built up through reorganizations, M&A, and market requirements added an additional layer of difficulty.

There were also siloed source systems scattered across the enterprise manufacturing IT infrastructure, which significantly diminished the speed at which critical insights could be gleaned.

### Our solution

To help face these challenges, Deloitte developed a robust data modernization strategy. A use case collection and prioritization framework emerged, designed to target key business priorities effectively.

To support the transformation, helping to enable near real-time processing, harmonization, and ingestion from source systems into the manufacturing data lake became the central focus.

To deliver this, Deloitte deployed multiple long-term data pods across the globe. Enhanced scalability and flexibility were driven by a cloud-based modular architecture.

To foster data-driven initiatives across manufacturing sites, data assets are meticulously cataloged, governed, and managed. We also implemented a use case-centered solution enablement approach, which facilitates data use throughout the manufacturing process.

### The outcomes

#### Enhancing supply chain visibility across teams, locations, and systems

- ✓ Timely value realization through end-to-end visibility and integrated data models across systems.
- ✓ 20+ manufacturing sites are enabled with modernized data.
- ✓ 150+ data entities across five source systems integrated into the contextualized data layer, including enterprise resource planning (ERP), laboratory information management systems (LIMS), and quality management systems.
- ✓ Enable 400+ users across manufacturing, supply chain, quality, and data science teams globally to utilize the data.

#### Saving time and effort

- ✓ There was an overall 75% reduction in time required to transform the data into insights at manufacturing sites.
- ✓ 85% reduction in the manual effort required to extract and consolidate raw data before it could be consumed by the analytics applications.



Achieved 75% reduction in the time needed to transform data into valuable insights.