

CASE STUDY

LEAN MANUFACTURING DASHBOARDS

The Challenge

TRACK VALUE STREAM METRIC DATA ACROSS MANUFACTURING STAGES WITH LESS EFFORT

The client, a global pharmaceutical company invested in continually improving manufacturing processes, was engaged in implementing lean manufacturing improvement initiatives.

To meet the new initiatives, the client needed an automated way to collect real-time manufacturing data, and apply and calculate value stream metrics over time. The client turned to Aspect to extract the needed data and design, develop, and implement dashboard reporting to meet their needs.

FEATURES & BENEFITS

- **Manual effort eliminated:** users no longer need to gather data & produce reports.
- **Graphical Alerting:** bold graphics ensure users can instantly view & act when values fall outside of thresholds.
- **Improved Analysis:** trend data gives the business the information needed to better employ lean practices.

The Solution

CUSTOM DASHBOARD REPORT WITH MEANINGFUL METRICS DESIGNED TO PROVIDE GREATER INSIGHT

Aspect Consulting was engaged to design a new series of dashboard reports to track value stream metrics:

Data Centralization: Aspect collaborated with stakeholders to extract the data needed to support the reporting metrics from the company's ERP system and created a .NET-based user interface to maintain alert thresholds and input data needed that did not exist in the ERP.

Dashboard Design: Next, Aspect collaborated with the client stakeholders to design dashboards that highlight batch yield and cycle time trends, with all metrics and charts arranged to easily traverse each manufacturing stage, and alert when conditions exceed thresholds.

Dashboard Development: Aspect utilized custom .NET charting tools to a landing dashboard combining key first look metrics across business units.

The Advantage

AUTOMATED DASHBOARD REPORTING INFORMS MANUFACTURING IMPROVEMENTS

- **Eliminates Manual Effort** required to gather and calculate metrics at each manufacturing stage and produce reports.
- **Streamlines Analysis:** Users can roll back and forward to assess data points over time or drill in with one click to view data figures more granularly, without needing to check and filter multiple spreadsheets and source data.
- **Provides Greater Insight:** All metric data appears in one set of graphical reports accessible via URL, with yield and cycle time metrics shown in combination with quality events for causal relationship assessment. The business can now use that data to more easily identify issues and implement lean practices to correct them.