GE’s Brilliant Manufacturing suite integrated machine data at GE’s Pune multi-modal facility and reduced downtime

GE Multi-Modal Facility in Pune, India
Serves GE Power, GE Aviation, GE Transportation, GE Oil & Gas, and GE Renewables

Customer Challenge
Experiencing cost over-runs for high-volume, low-mix production on expensive machinery
Limited real-time visibility into machine data and manufacturing performance
Need to optimize labor and machine run time
Operators not supported with a system to fully rotate reasons for machine downtime
No unified system to access technical information, record production, and quality data

Step 1: Gain real-time visibility with GE Digital’s Brilliant Manufacturing

Connected sensors from 20 CNC machines

Integrated machine data
Visualized performance for all 20 machines on a single screen

Lean actions were strengthened with the real-time visibility of machines
Formed new cross-functional team to analyze machine data and propose action plan:
Reduce machine downtime
Enable operators to rotate downtime
Enable operators to view 3D work instructions along with facility or record production and quality data

Annualized results
Created single visualization of integrated machine data
Implemented machine downtime notation system for operators
Unified user interface to provide technical, production, and quality data

$1MM Cost avoidance for one computer numeric control machine
45% to over 60% Increased overall equipment effectiveness (OEE) in connected machines

Step 2: Gain Insights

Connect manufacturing to provide visibility for labor hours, task time, and work in progress
Integrate ERP, PLM, and MES systems to pull in quality, labor, and supply chain data

Decrease maintenance costs with predictive analytics
Leverage GE’s Predix for visualization and advanced analytics for manufacturing

Find out how GE Digital’s Brilliant Manufacturing can make you a 21st century manufacturing powerhouse. Ready to get started?

Visit www.ge.com/digital/brilliant-manufacturing
or call 1-855-YOUR1GE / 1-855-968-7143.

About GE Digital
GE Digital connects streams of machine data to powerful analytics and people, providing industrial companies with valuable insights to manage assets and operations more efficiently. World-class talent and software capabilities driving digital industrial transformation for big gains in productivity, availability and longevity. We do this by leveraging Predix, our industrial cloud platform purpose-built for the demanding safety & security needs of industrials.