

Case study

Accelerated Operational Efficiencies Enable Full Automation For A Japanese Automaker

Synopsis

ThroughPut, through its AI-driven product ELI, specially designed for automatically solving bottlenecks, enabled a leading Japanese automaker to identify processes that can be fully automated via robotics by running an evaluation of its casting process performance.

THROUGHPUT INC



Challenge

Achieving optimum performance is a dream come true for manufacturers. However, the biggest stumbling block in production planning is the lack of effective measures to gauge the factory's performance.

A production plan typically works as a blueprint for a manufacturing unit, defining the direction and the course of the production journey. This enables better management of labor, costs and time while efficiently using equipment and improving on-time delivery of products. Most of the time, manually identifying bottlenecks and the scope for improvement can be immensely time-consuming and often prone to human error. In the age of dynamism and ultra-competitiveness, there is a growing dependency on AI and machine learning to power speed, control, and efficiency at the manufacturing units. AI-based applications are enabling businesses to achieve superior performance through the identification of bottlenecks and prescribing corrective recommendations.

ThroughPut's client who had a fully digitized manufacturing unit wanted to specifically evaluate if their casting processing times were under control.

Solution

ThroughPut took the appropriate daily time logs of the processing time to determine whether the overall process is under control or if there are critical bottlenecks. This avoided the tedious manufacturing analysis that would otherwise take a consultant months to complete. ThroughPut's Artificial Intelligence product, ELI, instantly validated that all systems were under control and the operation was ready for full-automation

Annual savings was estimated to be
$500,000-$1.1M per factory

Impact

The impact of full-automation would result in

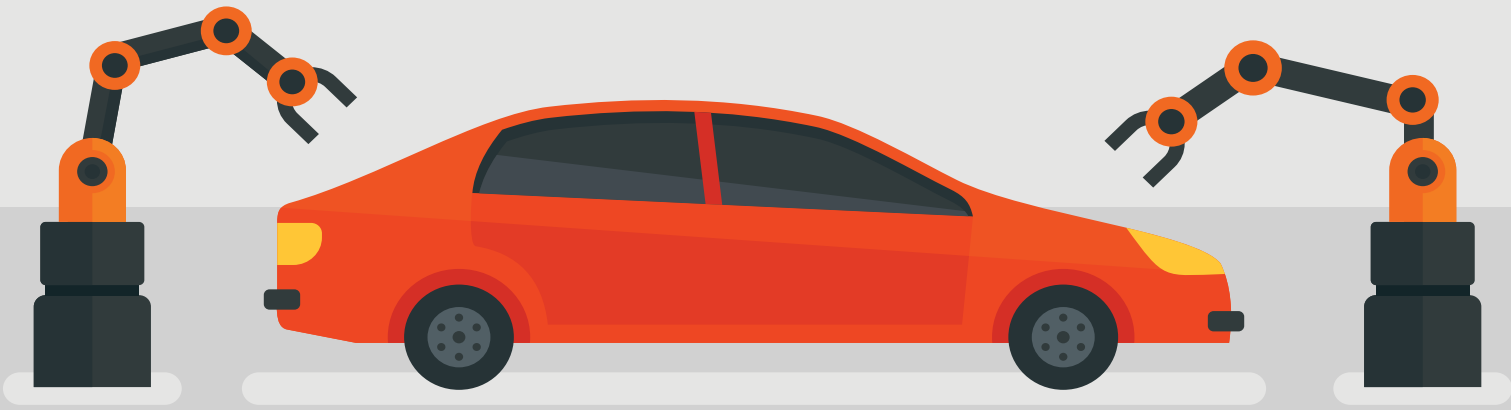
15-30%
improvement in labor productivity

10-20%
reduction in defects

10-20%
reduction of inventory build-up

5-10%
rework reduction

5-15%
reduction of machine idle time





About
ThroughPut Inc.

ThroughPut Inc. is the Artificial Intelligence (AI) Supply Chain pioneer that enables companies to increase output, quality and profitability through bottleneck elimination. ThroughPut's Supply Chain AI Product, ELI, includes the only Bottleneck Management System (BMS) that utilizes existing enterprise databases, such as ERP, MES, IMS, TMS, WMS, PLC, EAM, POS, CRM, SCADA and other data systems, to solve the bottleneck problem across global supply chains today. ThroughPut's systems are designed by Fortune 500 geo-market logistics leaders and Silicon Valley analytics and domain experts with decades of experience in the space. ELI thinks like an operations manager and automatically provides domain expertise, insights, and recommendations in real-time, which current static Business Intelligence and Analytics tools do not effectively capture. ThroughPut's dynamic insights include real-time resource allocation recommendations, granular root causes, and operational process stability analysis. ELI enables process improvement experts and operations managers to reduce cycle times and operational unpredictability across some of the most advanced process industries, including automotive, manufacturing, oil & gas, transportation & aviation, chemical processing, energy, and others.

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