Industrial Engineering Master Data Management

Taking your supply path optimization to the next level

CGI

One of our High Tech clients builds solutions to enhance the capabilities of people, organizations globally. Taking the next step in their industrial master data management across operations helps to grow the business in a more transparant way.

The challenge

Business in High Tech is in a way best characterized by dedication and drive for continuous innovation with clients and partners, combined with the obligation to service even long after commercial retirement of most products. This requires holistic lifecycle traceability of all relevant product information which spans from ideation, identification, co-design, sales, solution recombination, manufacturing of products over multiple sites including all relevant equipment, packaging, shipping, solution assembly support and service.

To improve existing industrial data management practice one of our clients asked us to come up with efficient but value driven approach. To leverage detailed insights and integrate set of parameters fine tuning information available from existing ERP and Manufacturing, PLM and planning engines across the business.

The solution

CGI experts involved for years in the High Tech domain started working with client' IT staff involving departments across the business for a Proof of Value (PoV) focused around number of business metrics, showcasing both feasibility and value to be expected.

The promising outcome of exploring and co-creating first steps to improve relevant insights and value was the basis for a now fully industrial engineering master data management solution architected, developed and implemented by CGI.

Core functionality in this Industrial Engineering Master Data Management solution includes providing one definition of master data and a wide variety of additional parameters that make sense and fit perfectly in between relevant wider corporate IT systems and local factory operations across the globe.

MASTER DATA MANAGEMENT
by CGI

Most people in business are finding that poor data quality negatively affect their achievement of goals. Master Data Management (MDM) is about solving this challenge!

Our expertise and capabilities in this domain include:

- Advise to best build or validate your MDM strategy and vision

- Best practices on how to measure MDM business benefits

- Practical guidance to organize and govern for MDM success

- MDM Development and Management Services to set up or improve processes and use of technology

Using latest automation technology, with feedback loop and more in-depth quality data management built in enables both fine tuning as well as further and future development. Think of even more relevant parameters in line with continuous improvement efforts across the operations and wider ecosystem. This solution allows for fine tuning per factory, product and per supply path and everything in between.

While we have started with PoV on specific part of the operation, the development team has been moving to include other domains as well. Typically MDM deployments do not happen in more of a big bang manner and for all domains at once. Moving forward in phases from initial focus on critical areas ensures success, both in return on investment and time-to-value.

The benefits

Bringing stakeholders together across the business co-creating initial set up has paid off. There's more detailed insights and transparency across operations brings diverse set of benefits the wider business ecosystem can keep exploiting. Insights currently used to optimise operations show potential to wider strategic application as well e.g.:

- Accurate analytics and business intelligence

- Improved insights into (available) capacity feeding into optimised CAPEX strategy

- More controlled and predictable way to meet and exceed production targets

- Less slack, costly overcapacity and overlap in margins across overall supply chain

- Best equilibrium in driving timely output … as a well balanced approach between capacity and consumption statement

- Culture of transparency, continuous learning and optimization potential across value chain, based on key parameters

About CGI in High Tech

In an increasingly data-driven world, CGI enables the industry collect, distribute, share and analyse information to make decisions based on real-time data and predictive analytics to create new business value. With deep industry and technology expertise, our consultants work with you to improve business agility so you can drive efficiencies and reduce costs as you continue to advance your strategic goals.

We help clients discover the potential and realize the value of data by staying ROI focused; we help find the right use case, prove its value by quickly turning it into a solution, and scale it, too.

For over four decades, we have helped leading manufacturers navigate and seize the opportunities of change. Through strategic IT and business consulting services, systems integration, IT managed services and intellectual property solutions, we help you realize the promises of Smart Manufacturing to enable new business models, offset margin pressures and optimize your value chain.

"Working with CGI we enable global operations to optimize our business, based on quality master data and shared insights."

Vice President Global IT

About CGI

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world.

We are insights-driven and outcomes-based to help accelerate returns on your investments. Across 21 industry sectors in 400 locations worldwide, our 76,000 professionals provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

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