

TCS Manufacturing Business Analytics Solutions

Manufacturing

The massive explosion of data in recent years presents tremendous opportunities for businesses to move beyond business intelligence (BI) and redefine business operations through advanced analytics. The advent of Big Data has further enabled organizations to leverage predictive analytics for strategic decision-making across all levels of the organization. Manufacturers are looking to tap into these insights and establish new business models to gain a competitive edge in the market place.

Tata Consultancy Services (TCS) Manufacturing Business Analytics Solutions enable you to leapfrog the complexity of myriad data sources and constant technology changes to benefit from insightful analytics. The solution is backed by our industry experience and analytics expertise, as well as our innovative tools and frameworks such as our Sensor Data Analytics Framework and our machine learning algorithms. We constantly work on your data to bring you powerful business insights across a wide range of functions to increase delivery performance, reduce cost of operations, improve the innovation cycle, and enhance customer experience.

Overview

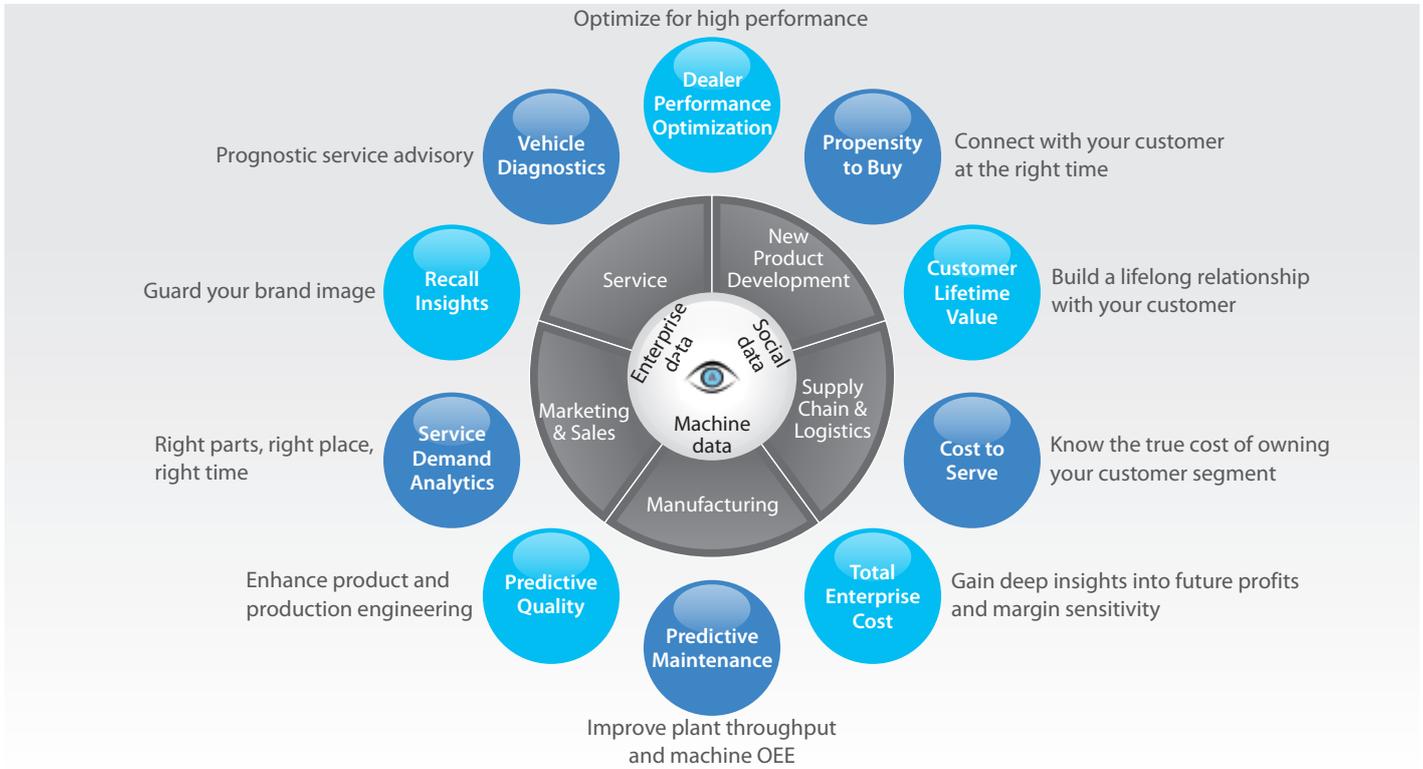
Critical business decisions ranging from capital investment to foraying into a new market or running service campaigns rest on an individual's capability to weigh risk and returns. These analyses are typically based on data that is historical and resides in silo-ed business functions. Lack of access to cross-functional data and advanced analytical tools often hampers effective decision making.

TCS has identified several business scenarios in its research on the decisions of various roles within a manufacturing organization. Our ten pivotal analytics solutions can leverage enterprise data, social media data, and machine data across all functions to deliver transformational benefits. You can run your data on these solutions today to evaluate the quality of the insights.

Benefits

The benefits of our solution include:

- **Increased production throughput:** Our analytics solution helps you increase overall equipment effectiveness (OEE) through Predictive Maintenance. Every one percent increase in OEE results in an equal percentage increase in production throughput without any incremental overhead.
- **High quality rating:** Our solution enables you to predict field failure and avoid potential quality issues in your new product program. This helps improve product quality.
- **Enhanced customer experience:** By predicting potential product issues or failure, the solution helps you increase the life of your products and enhance customer experience.
- **Effective lead conversion:** The analytics and insights we provide help you increase the effectiveness of your campaigns in multiple media and increase your sales within the given budget.
- **Reduces material cost:** The ability to identify hidden costs such as premium freight, obsolescence cost, and cost of poor quality enables efficient sourcing decisions, reducing overall material costs.



The TCS Advantage

By leveraging our capabilities, you can enjoy the following advantages:

Solutions Lab: You can run your data in our lab on solutions developed with machine learning algorithms for high accuracy of prediction models.

Analytics as a Service: Our expert teams comprise data scientists with expertise in statistical techniques and tools; manufacturing experts with in-depth knowledge of business operations; and technology architects, who are experts on Big Data analytics.

TCS' Sensor Data Analytics Framework: This TCS patented framework helps collect and harmonize terabytes of unstructured data in real time. It runs complex algorithms every few minutes for enhanced decision-making.

Contact

For more information about TCS Manufacturing Business Analytics Solutions, contact manufacturing.solutions@tcs.com

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India's largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

For more information, visit us at www.tcs.com

IT Services
Business Solutions
Consulting