

TCS Plant in a Mobile

Manufacturing

As global manufacturing becomes increasingly complex and demands become increasingly variable, manufacturing plant managers try to operate with greater flexibility and efficiency. Factories of the future must adapt to rapidly changing production schedules, based on real-time information and customer demand dynamics. Global manufacturers, particularly in the automotive industry, should synchronize execution processes and make each production facility capable of virtual, yet efficient operation.

To address these needs, Tata Consultancy Services (TCS) introduces Plant in a Mobile, a mobility solution that gives you an end-to-end view of the current state of plant-critical parameters to enable accurate, real-time decisions on-the-go. With sub-modules specific to maintenance, production, inventory, and quality, Plant in a Mobile equips factory personnel to exchange real-time critical information across the supply chain. It also enables effective collaboration with stakeholders, ensuring greater Overall Equipment Effectiveness (OEE) and individual operational efficiency.

Overview

A critical challenge for manufacturers is that senior executives lack real-time plant floor visibility, which is a bottleneck to decision-making. The overall throughput of a plant heavily depends on the time taken to identify and assess production issues, which is usually done in person, on email, or over the phone, leading to loss in productivity. Additionally, critical decisions get delayed by the physical absence of key stakeholders at the plant.

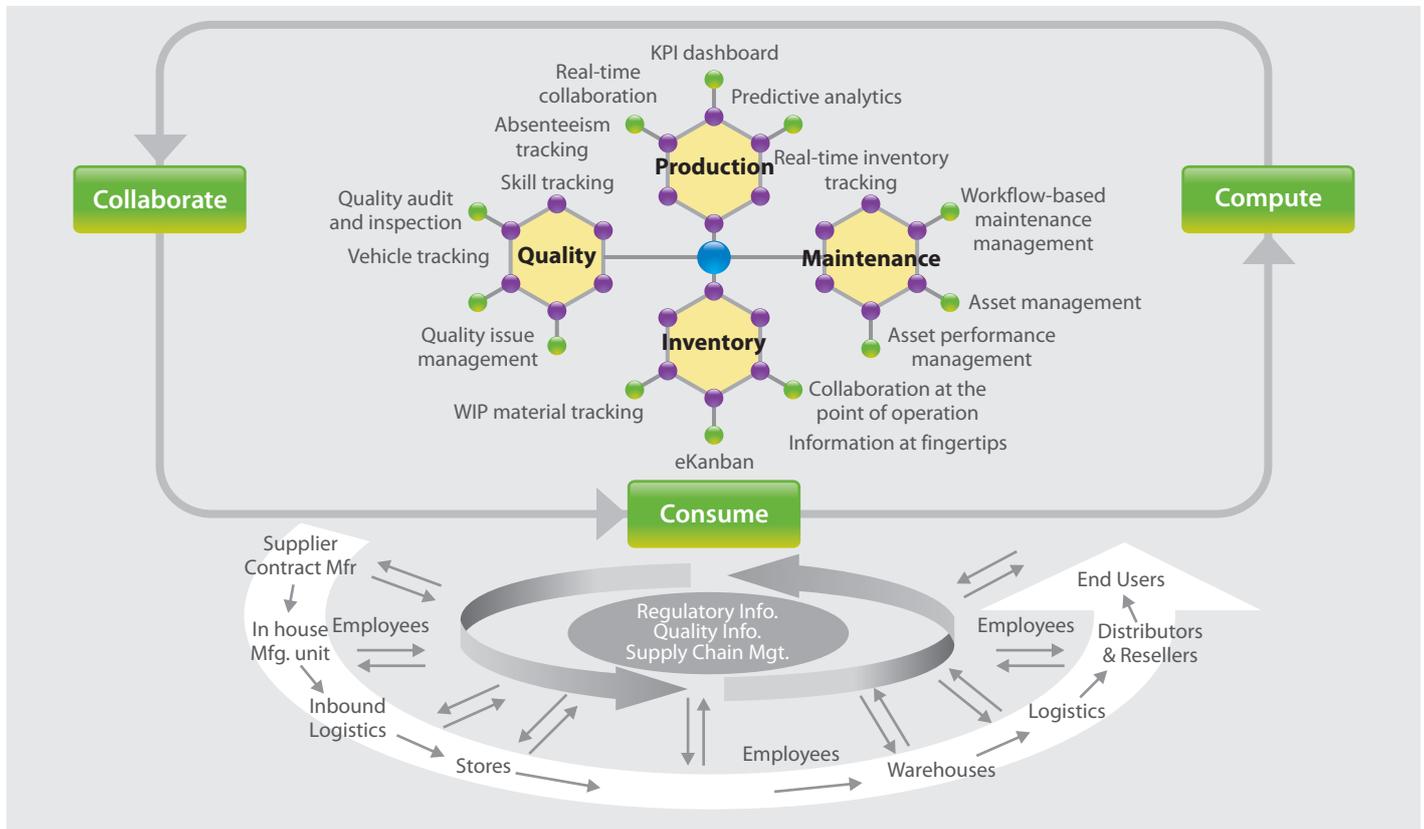
TCS Plant in a Mobile solution approaches these challenges with four specific sub-modules – maintenance, production, inventory, and quality – through a single managerial dashboard. Plant in a Mobile provides real-time, 360-degree visibility of the plant floor, enabling faster, effective decision-making among plant floor personnel. Our offering leverages in-built industry-leading workflows and decision points to help you standardize execution processes and increase OEE as well as workforce efficiency.

Scalable, platform-independent, and capable of integration with leading enterprise systems, Plant in a Mobile fosters greater collaboration across the organizational hierarchy, giving plant managers an accurate picture of the plant's performance and ensuring a harmonized multi-plant environment. Our offering can also be integrated with Google Glass, enabling access to virtualized paper assets and hands-free operation.

Benefits

Plant in a Mobile brings you benefits such as:

- **Enhanced OEE:** Improve your OEE across multiple locations and manufacturing units with improved real-time visibility and plant floor performance.
- **A 360-degree plant view:** Give managers and senior executives a complete view of plant functions, with an extensive, collaborative root-cause analysis.
- **Greater collaboration and productivity:** Empower your plant floor personnel with mobile access to real-time information, in order to make faster decisions on the go. Plant floor personnel can use their mobile devices to analyze problems and identify root causes, as well as collaborate with team members.
- **Easy deployment:** The solution can be seamlessly hosted on any mobile operating system, and built-in business process workflows let you easily incorporate industry best practices.
- **Enhanced user experience:** Ensure a better user experience with the rich native features of mobile devices. Built on TCS' Hy5 Canvas™ development platform, the solution easily integrates with back-end ERP systems.



An Overview of TCS' Plant in a Mobile Solution

The TCS Advantage

TCS' extensive domain understanding and experience makes us the ideal partner for your manufacturing mobility needs. Our focused services, combined with our ability to deliver faster time-to-market for our clients, ensure the quality you expect. We add value to the engagement through:

- **Delivery excellence:** Plant in a Mobile is developed using TCS' proprietary Hy5 Canvas™ development platform, ensuring tight security across every application, enhanced backend server support, and seamless data synchronization
- **Architectural framework:** The solution uses the principles of reusability, scalability, and maintainability as part of the architecture, making it easy to integrate with multiple external components. The solution is also easy to customize since it uses service-oriented architecture (SOA).

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

Contact

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