



India an early adopter of industrial IoT solutions Digitization will improve India's competitiveness and pave way for newer, agile and flexible business models

November 11, 2016

Corp/C/CCR-IN

CIN: L85110KA1951PLC000761

- ▶ Smart manufacturing can improve India's manufacturing throughput and optimize operations
- ▶ Smart Manufacturing will initiate and bring about a structural reform in operations
- ▶ India a software competent market will see its manufacturing facilities being overhauled

Bengaluru – India is one of the frontrunners when it comes to the adoption of the Internet of Things (*IoT*) in the Asia Pacific region, and the domain of industrial IoT solutions is expected to lead this change. Keeping pace with this development, when it comes to smart manufacturing, also referred to as cyber-connected manufacturing systems or Industry 4.0, Bosch has a dual approach. It is a lead supplier and user in its own manufacturing plants. This strategy enables Bosch to be an industry leader in this sector. The Group, focusses on offering software solutions with intuitive human machine interface (*HMI*) and user experience which results in full grade connectivity, final transparency and reduced complexity. In the space of logistics and production, Bosch India offers end-to-end monitoring and coordinating of inter-and-intra-logistic solutions. And, finally in the sphere of service and consulting, Bosch India offers consultation based on its experience of automation solution, lean production and logistics, as well as software solutions and services.

“At Bosch India, we expect the future to be driven by key trends such as digitization, growing energy needs, urbanization and better ecological solutions. With the largest development center outside of Germany, Bosch India is committed to offering connected smart manufacturing solutions,” stated Mr. Vijay Ratnaparkhe, managing director and president, Robert Bosch Engineering and Business Solutions. While national initiatives, such as ‘Make in India’ and ‘Digital India,’ intend to build the brand and competitiveness of India's core sectors, Mr.

Ratnaparkhe remarks, “Digitization will improve India’s competitiveness while also helping businesses move faster to market.”

On November 11, 2016, Bosch India hosted a smart manufacturing conclave in Mumbai- [Bosch Smart Manufacturing Conclave \(BSCM\)](#). Primarily targeting customers, suppliers and other relevant stakeholders, such as policy makers, was attended by over 300 guests. Of the nine core elements of smart manufacturing, Bosch India’s experience zone will feature the APAS robotic arm and Augmented Reality-Virtual Reality demonstration.

A digitally driven India will lead to overhauling of manufacturing facilities

India’s manufacturing sector is going through a transformational phase with smart manufacturing gaining increasing ground in the scheme of regional business operations. The Bosch Group is equipped to offer India a broad range of technology solutions and services in this area, such as drives, automation, sensors, software and predictive maintenance. These solutions are for instance suitable for the automotive manufacturing industry, tier 1 component manufacturing organizations, healthcare and pharmaceutical.

“India’s core pressure points in the manufacturing sector have been reducing cost, improving quality and process visibility, among others. It is precisely in these areas smart manufacturing can ease stress levels,” commented Mr. Ratnaparkhe. Smart manufacturing can improve India’s productivity and optimize operations, apart from initiating and bringing about a structural reform in operations as it paves way for newer, agile and flexible business models.

Turbocharging India’s production activities

In the consumer goods space, Bosch has partnered with one of India’s leading air conditioning and commercial refrigeration company to create the complete blue print for its digital journey. This includes connecting its research and development, manufacturing, and customer experience through Industry 4.0 solutions. As part of the pilot project, the company will automate the entire production planning, apart from implementing condition monitoring for selected machines. Additionally, Bosch India will also enhance the company’s customer experience through augmented showroom solutions.

For one of India’s largest two-wheeler manufacturers Bosch India has identified areas, in the maintenance function that could further be improved. Bosch has proposed a solution that combines preventive maintenance and status dashboards, operator mobility solutions on tablets and mobile phones, and remote

diagnostics including real time status and control. The dash board provides detailed information on the breakdown, such as name and description of the breakdown, location, date, time, duration, operator and shift details. The maintenance solution will allow operators flexibility and mobility solutions as they can access notifications on the go. The remote diagnostics tool enables analysis of breakdowns over the Intranet and the Internet.

Contact persons for press inquiries:

Roohie Menon

Phone: +91 (80)2299-2440

About Bosch in India

In India, Bosch is a leading supplier of technology and services in the areas of Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. Additionally, Bosch has in India the largest development center outside Germany, for end to end engineering and technology solutions. The Bosch Group operates in India through nine companies, viz, Bosch Limited, Bosch Chassis Systems India Limited, Bosch Rexroth India Limited, Bosch Engineering and Business Solutions Private Limited, Bosch Automotive Electronics India Private Limited, Bosch Electrical Drives India Private Limited, BSH Home Appliances Private Limited, ETAS Automotive India Private Ltd. and Robert Bosch Automotive Steering India Pvt. Ltd. In India, Bosch set-up its manufacturing operation in 1951, which has grown over the years to include 15 manufacturing sites, and seven development and application centers. Bosch Group in India employs over 30,000 associates and generated consolidated revenue of about ₹.17,022 crores in 2015 of which ₹. 12,100 crores from third party. The Group in India has close to 14,000 research and development associates.

In India, Bosch Limited is the flagship company of the Bosch Group. It earned revenue of over ₹. 10,415 crores (1.4 billion euros) in 2015-16. Additional information can be accessed at www.boschindia.com

About Bosch Group

The Bosch Group is a leading global supplier of technology and services. It employs roughly 375,000 associates worldwide. The company generated sales of 70.6 billion euros in 2015. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiaries and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing and sales network covers some 150 countries. The basis for the company's future growth is its innovative strength. Bosch employs 55,800 associates in research and development at 118 locations across the globe. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life."

Additional information is available online at www.bosch.com, www.bosch-press.com, <http://twitter.com/BoschPresse>