

# JioBusiness for Manufacturing: Build a Smart Future

## Introduction

India is the world's sixth largest economy by nominal GDP<sup>1</sup> and the third largest by purchasing power parity<sup>2</sup>. Manufacturing accounts for only 17% of India's GDP and India represents only 2% of the world's manufacturing output. Clearly India can do more in manufacturing.

The Indian government has adopted 'Make in India' as a core policy initiative to accelerate growth of the country's manufacturing sector with the aim to create 100 million new jobs and raise manufacturing as a percentage of GDP from 17% to 25%. Digital interventions can alter the growth pattern of manufacturing. As the country's leading service provider, Reliance

Jio has developed a networking infrastructure to complement the creation of cutting-edge industrial processes as a part of the larger wave of Industry 4.0. This can blend manufacturing with evolving IT systems, Artificial Intelligence (AI), and Virtual Reality (VR) allowing entire production lines to be monitored through sensors in real-time. This can save costs, improve quality, and shrink production cycles. Adoption of technology on the shopfloor with the aid of the Jio network can benefit large and small industries realize their individual goals and the country's goal of becoming a global manufacturing hub.

<sup>1</sup> World Bank. GDP (current US\$)

<sup>2</sup> World Bank. GDP, PPP (current international \$)



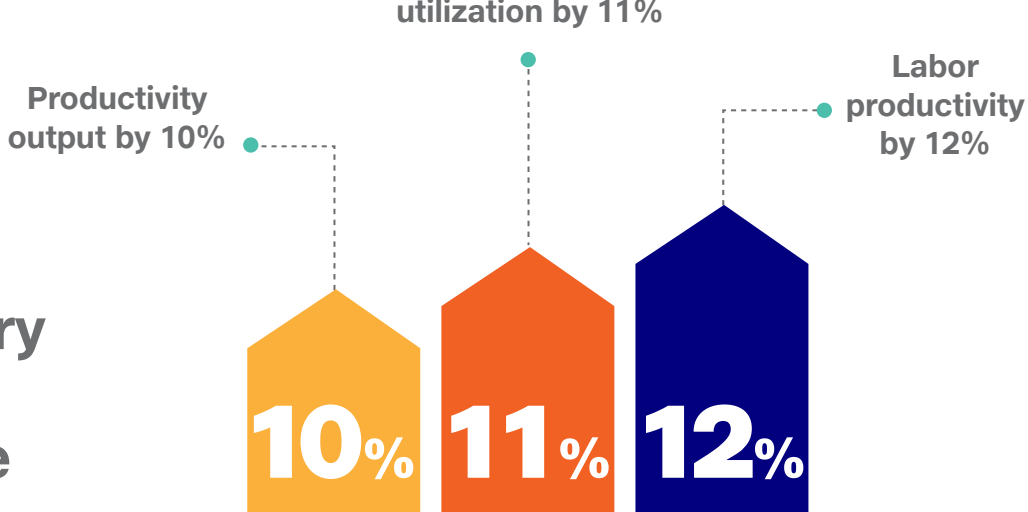
## Manufacture in India

India is a potential manufacturing powerhouse. India's world-class information-technology sector has put it on virtually every global boardroom's agenda. Manufacturing in India still faces problems, including poor infrastructure, red tape, disconnectedness from global supply chains, and restrictive labor laws. Adoption of technology on the shopfloor can really enhance

India's manufacturing capabilities<sup>3</sup>, blending manufacturing with IT, including artificial intelligence, virtual reality, robotics, 3D printing, and the Internet of Things (IoT). **Only 23% of manufacturing companies in India have a clear digital strategy<sup>4</sup>**. Indian enterprises need to build strong digital manufacturing capabilities.

One of the largest inhibitors to digital manufacturing is the infrastructure. Manufacturers often deal with existing legacy systems that limit the ability of new technologies to drive innovation, opportunity, and engagement. Solutions from Reliance Jio can connect enterprise operations from the floor to the fleet and field. Enterprises can streamline operations and supply chain while responding to market changes. Jio solutions can enable IoT, blockchain, robotics, predictive analytics, AI, RFID, sensors, cloud, and much more.

## Digital factory investments can Increase



Enterprise can leverage Industrial IoT solutions for not just smart factories. They can be used for field monitoring, fleet management, smart lighting, and other applications. Jio's pan-India IoT network based on Narrowband IoT (NB-IoT) is already operational. Jio's first commercial NB-IoT service was for Tata Power Delhi Distribution (Tata Power-DDL) monitoring 2.3 lakh smart meters in North Delhi<sup>5</sup>.

Indian manufacturing is at a threshold. A sleeping giant ready to awake and claim its spot as the top manufacturing hub in the world. Plenty of natural resources, a young workforce, technology knowhow, conducive policies, and a strong infrastructure can galvanize India's manufacturing progress. India has the prospective to become the digital factory of the world by being at the forefront of the digital revolution. Fast tracking digital transformation will be key to achieving this goal. **Jio's Business solutions can catapult large and small enterprises with the necessary tools to begin the digital manufacturing journey to churn out high quality products efficiently at lower costs.**

<sup>3</sup> Gateway House, Digital Manufacturing in India, March 2021

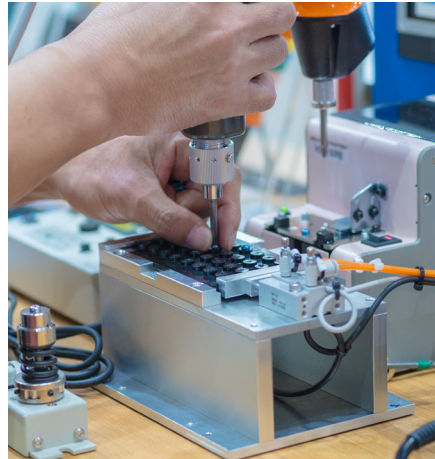
<sup>4</sup> Ernst & Young, Will the next transformation in manufacturing be led by digital?, February 2020

<sup>5</sup> Deloitte Insights, 2019 Deloitte and MAPI Smart Factory Study

<sup>6</sup> Economic Times

## Jio Solutions

### Connectivity for Factory of the Future



Cooperation between robots, machines, sensors, connected things, and humans is only possible with seamless network connectivity. Jio operates India's largest NB-IoT network for M2M and IoT device connections. Jio operates the best network for manufacturers with fiber connections backed by ubiquitous 4G LTE. Jio's High Speed Internet ranks top in Netflix's ISP speed index as the fastest wireline network in India<sup>7</sup>. Jio has the fastest 4G speeds according to Telecom Regulatory Authority of India (TRAI) data<sup>8</sup>. This allows for thousands of devices on the shop floor to interact with the cloud allowing for improved monitoring, increased speeds, response to fluctuations, and simplified workflows.

73% percent of customers for manufactured goods say the ability of the manufacturer to provide personalized care influences their loyalty<sup>9</sup>. JioOnline allows manufacturers to establish an online presence. It helps improve social marketing with auto-sync updates, promotions, and online transactions. For manufacturers to connect with customers, retailers, distributors, and suppliers, Jio offers interaction platform JioMeet.

Toll-free service can establish a nationwide identity on a single number. Microsoft 365 bundled with Jio, offers services like Office Apps, Microsoft Teams, OneDrive, and Outlook that helps drive productivity. JioAttendance enables contactless worker management and real-time tracking.

Global competition, rising fuel prices, and materials shortages are driving the manufacturing industry to find new ways of working. The industry is under intense pressure to increase productivity. Providing devices in the hands of employees can enable asset tracking, remote monitoring, fleet management, and environment measurement. Devices from Jio can transform employee, partner, and customer experiences. With JioBusiness solution manufacturers can avail the Digital First Business Membership from Reliance Digital, that offer additional discounts, extended warranties and on-site support. The right tools in the right hands can eliminate downtime and multiply productivity.

<sup>7</sup> Netflix ISP Speed Index, URL: <https://ispspeedindex.netflix.net/country/india/>

<sup>8</sup> TRAI MySpeed Portal, URL: <https://myspeed.traigov.in/>

<sup>9</sup> State of the Connected Customer, 4th Edition, Salesforce Research

### Digital Solutions for Experience



### Intelligent Devices for Productivity



## Summary

Digital manufacturing was an option for companies in the past. Today it is a necessity. India is at the cusp of a paradigm shift that could catapult it to become a manufacturing powerhouse. Adoption of digital technologies in India is still in its infancy. It is essential for Indian companies to embark on the digital transformation journey. JioBusiness solutions can provide the perfect complement to digital adoption to reduce time-to-market, improve end-to-end industrial efficiency, introduce customization, and expand customer service. Jio is committed to support Indian manufacturing industries as they shape the future of digital manufacturing.

