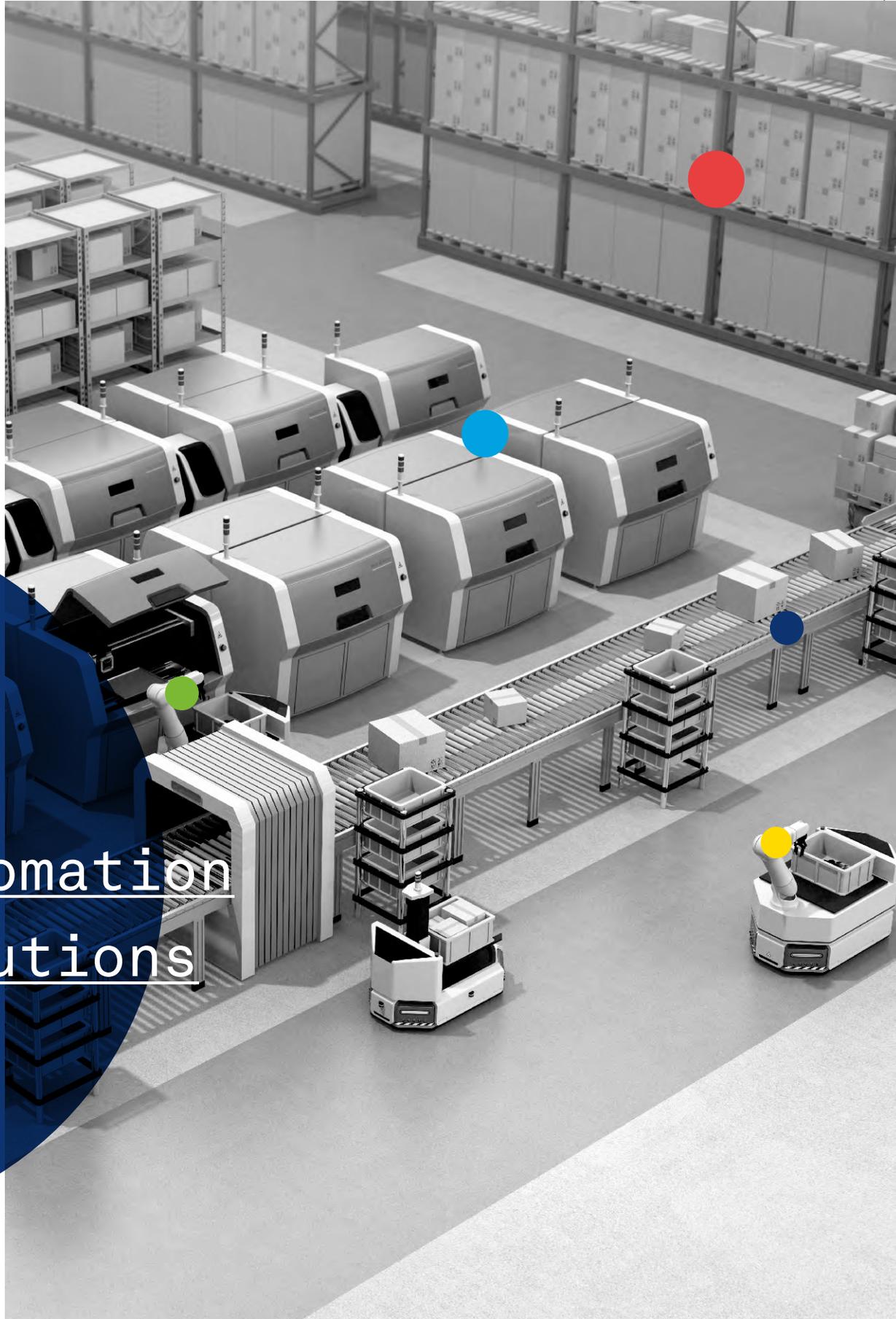


Automation solutions



WIN automation



WIN Automation Solutions is an initiative of Wipro Infrastructure Engineering (WIN), which caters to the full-service line of Industrial Automation needs of Indian & ASEAN manufacturing industries. Our core focus is to be a system integrator and play a pivotal role in Industrial Automation. We provide complete, end-to-end Industrial Automation Solutions that enable companies in the discrete manufacturing sector to be automated, digitized and smart.

Automation for India/emerging markets

Opportunities and challenges are inherent in India's manufacturing sector. It is poised to grow exponentially to reach US\$ 1 Trillion by 2025 and rank among the top three growth economies and manufacturing destinations of the world by 2020. The Government of India's stated ambition is to raise manufacturing's contribution to 25% of GDP by 2022 and to create 100 million jobs in the coming decade.

However, the sector has challenges to overcome.

Manufacturing in India tends to be labor intensive and the labor laws are not conducive to combat global competition and achieve a high level of productivity.

Even larger manufacturing organizations in India do not return their cost of capital as the wage to productivity ratio is significantly low. Our assessment of over 100 Indian manufacturing companies indicates that there is a tremendous opportunity for significant productivity improvement.

According to a McKinsey study, more than 50% of Asian companies feel less prepared for Industry 4.0 and they grapple with problems across technology, people, operations and integration.

Our approach

Wipro has already made major inroads into Industry 4.0 and Manufacturing Execution Systems. WIN Automation Solutions will:

- Design smart automation solutions
- Develop, integrate and implement the physical systems along with digital systems

Foundation to industry 4.0

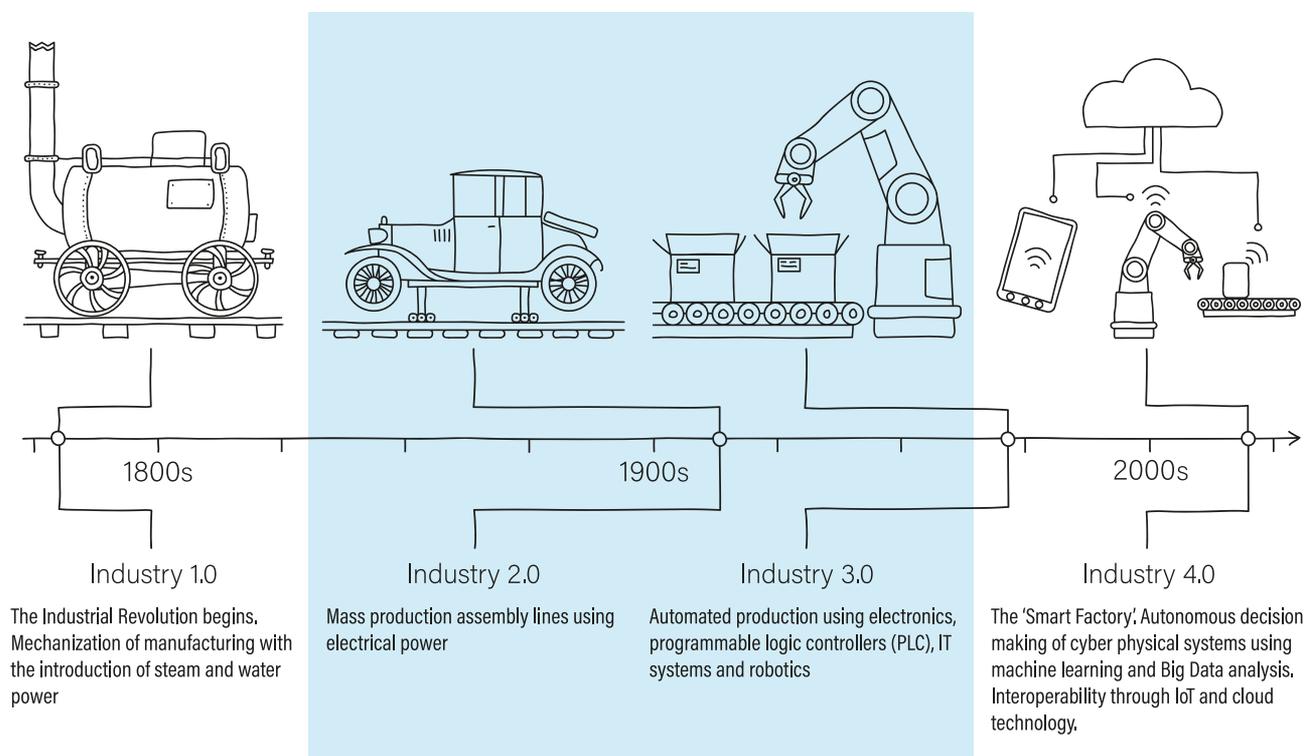
For India to adopt industry 4.0 successfully, it is critical that we don't skip implementation of industry 2.0 & industry 3.0.

An attempt to ride on the digital wave when the base level of shop floor productivity is not achieved can prove counterproductive. Industrial automation is at the core of industry 2.0 and industry 3.0.

Our methodology

WIN Automation Solutions will offer right from factory design, process design to selecting automation products, carrying out design of intelligent material handling systems synchronized with the process and assembly flow, coordinating/procuring/integrating the entire automation solution, proving out the expected operating efficiencies in terms of OEE, productivity, quality, inventory, line balancing, supply chain & logistics synchronization etc.

We will incorporate Manufacturing Execution Systems (MES), designing, implementing & full integration of MES layer to PLM/ERP seamless information exchange, designing & implementing digital dashboards, paperless & real-time factory metrics, built-in diagnostics, analytical tools, proactive alerts and escalation protocols, etc.



Integrated factory automation hardware solutions



Turnkey automation solutions

- Create physical infrastructure for assemblies, subassemblies, parts
- Special processes like welding, painting, etc.

Integrated warehouse automation solutions



- Automated storage and retrieval systems (ASRS), conveyors & automated packaging systems
- The entire cycle of warehouse operations - receiving, storage, retrieval, packaging & shipping

Process automation hardware solutions



- PLC and HMI based solutions, SCADA systems, DCS solutions
- Turnkey automation projects

Smart factories



- Digital & visual factories
- Data analytics & diagnostics
- Part traceability systems
- Integrated supply chain systems

Robotic automation solutions



- Design & implement robotic automation solutions
- Deliver optimal cost, reliability, ergonomics & safety
- Solutions based on 6/7 axis, scara, cartesian robots, vision systems, cobots, AGVs

Smart products



- Telematics hardware, firmware & software solutions
- Smart material handling systems
- Fleet management telematics
- Smart insurance solutions

Intelligent material handling systems



- Design, supply and integrate suitable intelligent material handling system
- Ensure perfect synchronization of material feed Takt with the assembly & process cycle times

Smart sensors



- Smart sensors that measure, process and communicate data
- Temperature, Pressure, Position, Speed, Flow, Level, Load sensors
- ADAS Sensor solutions – Ultrasonic, Microwave, Camera LiDAR, RADAR

Connected special purpose machines

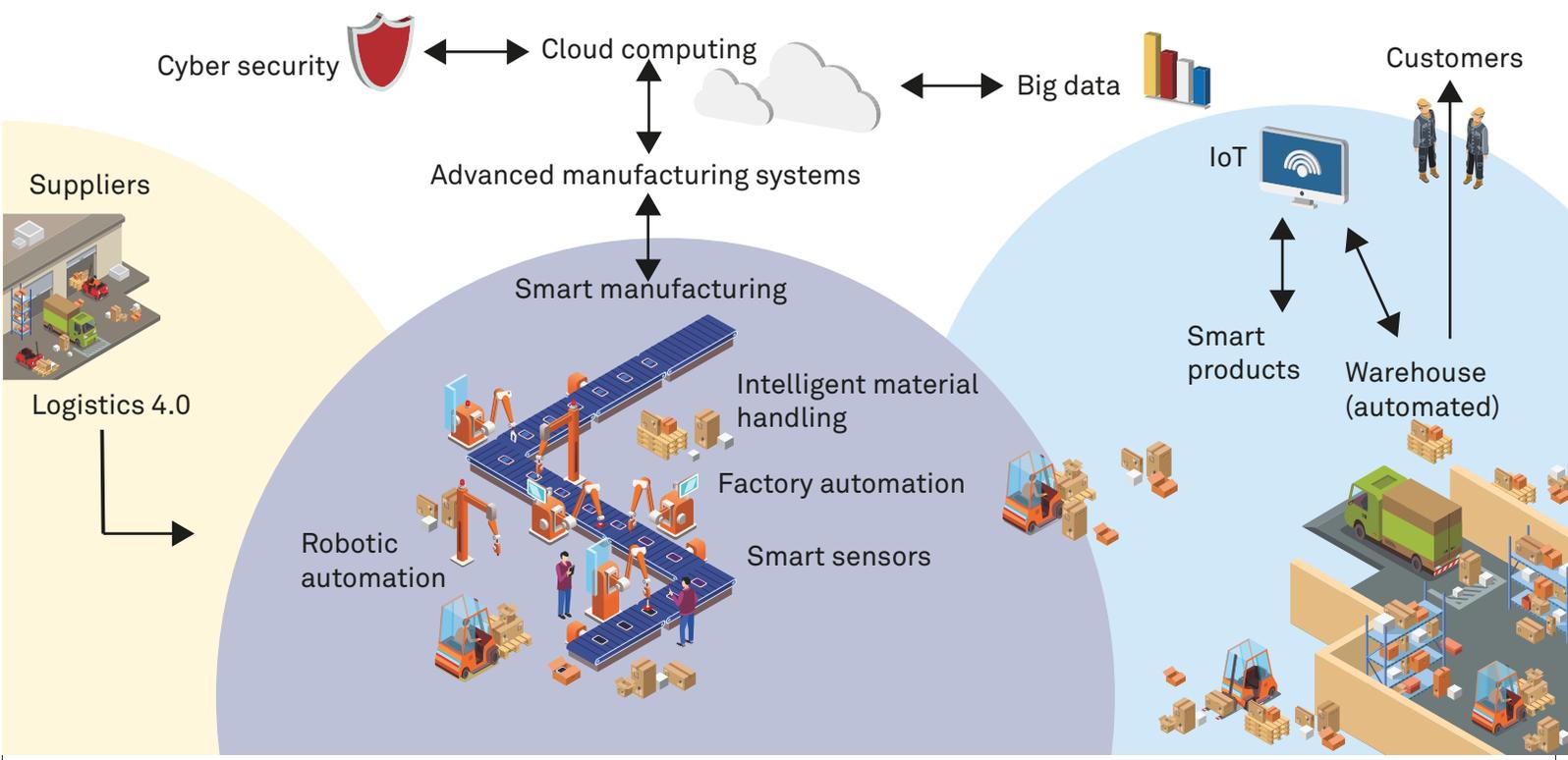


- Takt synchronization & inspection automation built-in
- Preventive, predictive and condition-based maintenance programs

Automation studio



- Virtual Automation Studio create/simulate/visualize automated factory solutions and iterate for Space, Takt, Flow
- Virtual estimation of all operational metrics for optimization



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● Wipro diversified

Hydraulics

Wipro specializes in designing and manufacturing custom Hydraulic Cylinders, Actuators and Precision Engineered Components for infrastructure and related industries.

Aerospace

Wipro has long-term agreements in place with OEM's, Global Tier-1s for development and manufacture of actuators, PMCs and aerostructure assemblies in Bangalore, Israel and USA.

Wipro Water

Conceptualizes, designs, manufactures, commissions and operates the complete range of industrial water and wastewater treatment plants to meet the most demanding needs.

Wipro 3D

Wipro 3D is a leading provider of Additive Manufacturing (AM) Services that range from Concept-to-Component services including design, prototyping and production for demanding applications to the deployment of captive AM centers.

WIN Automation Solutions

Complete end to end industrial automation solutions catering to the needs of Indian & ASEAN discrete manufacturing industries.

