

SMART MANUFACTURING e-NEWSLETTER

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Smart Manufacturing is driving the next industrial revolution. It is shaking up manufacturing structures, disrupting traditional value chains and revolutionising economic structures across the world. Manufacturing companies will need to bolster their capabilities and couple their comparative advantage emanating from 'low cost' with being 'precise', 'efficient', 'agile' and 'intelligent'. Confederation of Indian Industry (CII) believes that Smart Manufacturing is a phenomenon that is here to stay and Indian manufacturing will be compelled to understand the possibilities and embrace the opportunities.



Chandrajit Banerjee
Director General
Confederation of Indian Industry

Globally, manufacturing is traversing new domains led by disruptive changes in technology and breakthrough innovations. The industrial landscape is transforming with technology bridging the gap between the digital and physical world of manufacturing. The new face is 'Industry 4.0.', which represents systems being connected intelligently within the entire value chain and supporting activities of manufacturing.

In this increasingly globalized world, a shift towards next generation manufacturing could be one of the promising approaches to improve product and service quality with competitiveness. Adoption of Smart Manufacturing technologies would enable companies to enhance their quality, operations, and organizational and financial performance in a costcompetitive manner...[Read more.](#)

Useful Links



- CII Recipe for Excellence Tool – Benchmark your company's competitiveness now!
- CII Manufacturing Portal – Access latest resources on manufacturing



- 3rd CII Smart Manufacturing Summit – 15 November 2017, New Delhi

Smart In-Action

• How manufacturers in Hong Kong are gaining from Automation

On one hand there is TAL Group, one of the world's largest dress shirt makers and manufactures 60 million pieces of garments in a year for well-known brands,...[Read more.](#)

• Scientists create a 3D-printed, full-sized human heart

It is estimated that about 26 million people worldwide suffer from heart failure while there is a shortage of donor hearts...[Read more.](#)

• Automation: How the Automotive industry is gaining from Industry 4.0

It's estimated that over 380 million connected cars will be on the road by 2021 globally, more than double the number now...[Read more.](#)

• Innovative smart car gadget 'SafeDrive' launched

Technology has been used in an omnipresent manner for many years now, but with the Industry 4.0 coming through strongly,...[Read more.](#)

• Ashok Leyland launches digital market platform; Looks to boost aftersales business

Aftermarket Sales revenue is usually seen as one of the contributors to the top-line but seldom seen as one of the drivers of top-line. Ashok Leyland Ltd. however aims to change that[Read more.](#)

• Research Team in India Uses 3D Software and 3D Printing to make Prosthetic Ear

Globally, adoption of new technologies in healthcare is quite pre-valent, but the same could not be said in case of India, due to varied reasons....[Read more](#)



Sunil Mathur
Chairman
CII Smart Manufacturing Council
MD & CEO, Siemens Ltd.

Imperative for success in this new world order of fiercely competitive markets will be creating products tailored to the specifications of individual customers, shorter product lifecycles, better quality, greater flexibility and shorter time to market. The current trend of automation and data exchange in manufacturing technologies – makes all this possible and is being heralded as intrinsic to the 'Fourth Industrial Revolution'.

[read more....](#)



Chairman's Vision for Smart Manufacturing Council



Smart Manufacturing – The Why?

Smart Perspectives

• Six IIoT companies show value of internet-connected Manufacturing

These six companies are great examples of how manufacturers are making progress in industrial IoT, enjoying benefits ranging from process improvements to cost savings....[Read more.](#)

• Approbation for Automation Why Japanese workers treasure Robots

Asahi Breweries is one of Japan's top brewer. At its factory near Tokyo, the Beer cans are filled and packed at astonishing rates, about 25 per second....[Read more.](#)

• How General Motors is integrating Cloud and Robotics in its factory

Automation has been around for a few years now, but no industry has embraced it the way the Automobile industry has....[Read more.](#)

• Intel bets on AI, to train 15,000 people in India

Globally, Intel has been investing in AI startups, acquiring others, and blending the mix with its own AI expertise to ensure a leadership position in machine learning, ...[Read more.](#)

• Global 3D Labs plans to disrupt the \$79 Mn Indian 3D Printing market

Globally, 3D printing has been projected to create a market worth \$30.19 Bn by 2022, including the manufacturing and sale of 3D printers.[Read more](#)

• Riding the 4th Industrial revolution wave would be key for India's manufacturing GDP growth: Experts

'Industry 4.0', 'Industrial Internet', 'Internet of Things' are keywords that figure prominently at every other Industry event.....[Read more.](#)

Start-up in focus: Petasense

Founded in January 2014, with a vision of making industrial machines smarter, Petasense is an Industrial IoT startup based in Silicon Valley. The company offers an end-to-end solution – comprised of a patent-pending wireless vibration sensor, cloud software and machine learning analytics – that helps with asset reliability and predictive maintenance...[Read more.](#)

Case Study : Avcon Controls

Avcon Controls Pvt. Ltd. (Avcon) is known throughout India as a manufacturer of high-quality products: solenoid valves, ball and butterfly valves with pneumatic and electric actuators, and gas control valves and regulation products. The company manufactures more than 1,000 products with many variants. Learn how Teamcenter and NX help Avcon Controls streamline processes and optimize use of resources...[Read more.](#)

The Digital Enterprise is already a reality

To draw on all the benefits of digitalization, businesses must first achieve an end-to-end integration of their data. This requires the integration of industrial software and automation, the expansion of communications networks, security in the area of automation and the use of business-specific industrial services.

The Digital Enterprise Suite offers integrated software-based systems and world-leading automation technologies to seamlessly integrate and digitalize the entire value chain, including suppliers. By merging the virtual world of product design, simulation and testing with the real world of production, on one integrated data model, Siemens helps its customers to reduce time to market, increase flexibility, deliver quality and become even more efficient. The Digital Enterprise Suite also supports enterprise data analysis through our cloud based and open IoT operating system MindSphere...[Read more.](#)

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