



India Japan Conference Emerging Technologies in Digital Manufacturing and Services

13th November 2024: New Delhi

PROGRAMME

09:30-10:15

Inaugural Session

Asia has made significant advancements in technology by leveraging its strengths in manufacturing, digital infrastructure, and a robust knowledge base. Collaborations among countries in the region are essential for addressing technology gaps and fostering innovation across various sectors. A notable partnership between India and Japan highlights this effort; Last year, the two nations formalized an agreement to collaborate on semiconductor design, manufacturing, supply chain resilience, and talent development, which are critical for economic growth and national security.

As India strives to become a developed nation by 2047, its partnership with Japan plays a vital role in promoting innovation in digital manufacturing and services. With nearly 1,400 Japanese companies operating in India, this collaboration facilitates technology transfer and economic development across industries. The combined efforts of policymakers and industry leaders from both nations will drive global technological progress, enabling them to achieve technological self-reliance and sustainable growth in emerging markets.

10:30-11:15

Plenary Session I:

Industry 5.0 – Defining the Future of Digital Technologies in Manufacturing

India and Japan have established a strategic partnership to collaborate on emerging technologies, focusing on sectors such as precision electronics, semi-conductors, biotechnology, clean tech etc. Digital manufacturing has brought in operational efficiencies to all aspects of the manufacturing industry in various sectors, e.g., automotive, miniaturisation, printed electronics, aerospace products, etc. Collaborations in 5G, AI, IoT and other ICT are now increasingly an integral part of smart manufacturing.

As leaders in Industry 5.0, both nations are leveraging intelligent automation, AI, and robotics to revolutionize manufacturing, fostering human-machine collaboration for resilient and efficient production systems. Additionally, the Japan-India Transformative Technology Network connects innovators to maximize the benefits of new technologies for social good, addressing challenges in accessibility and healthcare. By aligning initiatives like India's "Make in India" and Japan's "Society 5.0" this partnership aims to drive technological self-reliance and sustainable growth in the region.

11:30-12:15

Plenary Session II

Digital Technologies for Sustainable Energy and Fast-tracking Climate Solutions

Digital technologies are essential for achieving sustainable energy solutions and combating climate change. As countries strive to meet their climate targets, tools like AI, big data analytics, and IoT are optimizing energy systems, facilitating the transition to clean energy, and lowering carbon



footprints.

The collaboration between India and Japan plays a crucial role in this effort, as both nations can share valuable insights from their digital transformation experiences to support global climate action. Their partnership emphasizes the development of smart energy solutions and infrastructure that promote sustainability. By harnessing their combined strengths, India and Japan can accelerate the adoption of innovative technologies, fostering a smarter, greener economy. This collaboration not only benefits their own countries but also aims to assist other emerging economies in implementing effective climate solutions through shared knowledge and resources.

12:30-13:15

Plenary Session III

Delivering Advanced Citizen Services through Digital Mediums, EdTech, MedTech, FinTech, and E-Governance Impact

The transformation of citizen services through digital platforms is revolutionizing governance and industry. This session will explore how digital governance frameworks, educational technologies, medical innovations, and financial technology solutions enhance citizen engagement and improve service delivery.

India and Japan's collaboration in this area is significant, as both countries leverage their technological advancements to bridge social divides and promote inclusive growth. India's Digital India initiative empowers citizens through technology, while Japan's focus on smart cities enhances urban living. By sharing best practices, both nations can accelerate the adoption of digital tools that foster transparency and accessibility. Recent data shows that 81% of businesses have adopted digital transformation to improve operations, highlighting the importance of integrating these technologies for effective governance and sustainable growth.