



Emerging tech poised to take on a much larger role in manufacturing

▼ **Sekaran Letchumanan**, VP- Operations, Flex India

Emerging technologies have completely reimagined the factory floors in the manufacturing industry. They improve quality, lower risks, and reduce costs while adopting sustainable practices. As a global manufacturing and supply chain solutions company, we deploy and use advanced manufacturing systems and technologies and have ensured that we have in place a solid digital foundation. We have deployed the Digital Twin model which has advanced simulation capabilities and uses 3D modeling as well as AR/VR to build real-time, digital models of processes and physical entities. Using Digital Twin applications, we can build a digital representation of a proposed production line to experiment with different processes and configurations to make sure it works as planned before installing it physically.

Bringing in 3D printing during manufacturing could help in the effortless customization of products and reduce the production cost. The fabrication of parts on demand minimizes lead times and reduces the need for a large inventory. Over the coming years, we will witness emerging technologies take on a much larger role in manufacturing.

