



Confederation of
Indian Industry

CII Manufacturing 4.0 and
CII Start-up Committees
present

START-UP 4.0

Your chance to compete with
the best in Indian manufacturing.



Calling all game changers

If you've got a world-changing manufacturing technology that can lead India towards Manufacturing 4.0, we bring you the best forum to connect with your future investors at Start-Up 4.0. A business platform where the best manufacturing tech ideas across 5 categories get the chance to pitch their solutions to renowned companies, get funded, and implement their ideas at scale, all with the help of CII and the industry's brightest minds.

CATEGORIES



IIoT Sensors & Hardware

Start-ups engaged in the manufacture and development of Industrial IIoT sensors and hardware that use connected devices to monitor or control industrial equipment. The sensors and the hardware should be applicable for any industry with manufacturing and production facilities and be applicable for all the equipment. The goal of IIoT Sensors and Hardware is to provide detailed data on chosen aspects of the plant's operations like, but not restricted to, motion detectors, vibration monitors, RFID tags, temperature/pressure sensors, IIoT gateways including wireless, edge devices, etc. Data collection should have the capability to connect to a wide variety of shop floor PLC's & DCS's across multiple OEM protocols. Data collected from the smart devices and software systems should be able to use industry standards for integration with data analytics and algorithm platforms. These systems should have stringent security features and incorporate security firewalls acceptable across the world.



Remote Monitoring and Smart Operations

Solutions that connect people and data in factories with the end product, capturing information about all aspects of the manufacturing process. This applies to manufacturing equipment that employ sensors to gather information. The solution should be able to monitor performance levels, identify sources of problems before they arise and help manufacturers respond quickly when issues happen. Advanced Monitoring Solutions should be able to provide real-time data visualization through dashboards so that manufacturers/customers can see what is happening in their production lines or the products installed at their customer locations. The data needs to include process measurements, machine statuses and other metrics to ensure that everything is running smoothly. In addition, the system should be able to provide clear actionable callouts for the entire workstream to ensure availability of services and parts at the right time and place.



Energy Management and Sustainability

Software and hardware solutions, preferably hosted on the cloud, that analyse energy utilization at manufacturing factories, utility sites and commercial offices. The solution should have modularized control systems to measure, record and verify data from different media and energy-generating equipment. Ability to use multiple equipment scanning features like QR codes or Photo Mapping to create a visual representation of the facilities and generate Energy Heat Maps. Industry specialization and domain expertise of specific processes in industries should be modelled through the solutions developed. Cloud-based Advanced Monitoring Solutions should be able to provide real-time data visualization through dashboards so that stakeholders can see and manage how energy utilization varies based on different energy sources, equipment loads and external variables.



Advanced Manufacturing – Robotics, Drones, 3D Printing, AR/VR

Smart solutions to improve visualisations, speed of operations, higher quality output and better safety management standards for manufacturing industries. Robotic solutions should be centred around any of the following areas:

- Cobots working alongside people in factory environments.
- Autonomous Mobile Robots and/or Drones that can move around factory environments without human support.
- Machine Vision to enable visual inspection of quality and process parameters.
- Robotic Machining using 3D printing on a variety of materials. The solutions should be cloud-based and show smart operating and learning functionalities using high-end vision, AR/VR capabilities and AI. The solutions should also be able to operate in standard Indian manufacturing sites and be able to adhere to all safety and security protocols typical of manufacturing standards.



Re-imagined supply chain

Cloud ready digital and physical solutions to manage supply chain processes, including logistics, delivering a transformed end-to-end experience. Some of the features of the solution should include, but not be restricted to:

- Smart Logistics involving automated warehousing, cargo tracking and remote fleet management.
- Big Data Analytics to enable demand-led supplies using analysis for forecast and replenishments and ML to reliably predict cyclical patterns of consumptions. Last mile logistics transformation by the use of intelligent drone deployment.
- Digital Thread across the upstream and downstream value chain, connecting customers, retailers, dealers, distributors, OEM's and vendors.
- Customer order fulfilment in a digitally connected ecosystem backed by information and feedback channels. The solution should have open and standard protocols to integrate with existing corporate systems like ERP, CRM & DMS systems. The solution should include intuitive dashboards and actionable pointers for stakeholders at various hierarchical positions.

Eligibility Criteria

- Be DPIIT recognized/registered.
- Must leverage technology as a core part of your business model (leveraging technology to change the way-of-doing-business in your segment)
- Must have at least 1 paying customer who's been with you for a minimum of one quarter (product-market-fit)
- Founders must have at least 10% ownership of the company to be invited.
- Must be less than 7 years old since incorporation.

Why Participate?

- Selected start-ups get a chance to pitch to an international audience at the CII Manufacturing Summit later this year.
- Opportunity to showcase your capabilities to titans of the Indian manufacturing Industry.
- Interact with Venture capitalists and companies.
- Mentorship from industry leaders, piloting & networking opportunities.
- Increase visibility of your company's products and services.

All entries must be submitted on or before

31st October 2021

For any clarifications or more information, contact sneha.sohaani@cii.in.

Submission guidelines

Your submission is your chance to present your company in your own words. Below are guidelines for what you should cover in your submission. Remember, each evaluator will be going through dozens of applications. Brevity is your friend – be bold, be sharp. Put your best foot forward.

Who are you?

Every superhero has its story. Tell us about yours:

- ~ What is your origin story?
- ~ Who is the team?
- ~ How do you intend to make the world a better place?
- ~ Who is your Stan Lee? Who funds you? What stage of funding are you at?

What do you do?

- ~ Tell us about your superpowers - your product(s), your service(s), your solution(s)
- ~ Why do you exist? What can you do that no one else can?
- ~ Brag about your adventures – customer testimonials, success stories
- ~ If you had another 100 crores, what would you do? Where are you going next?

Bit of administrative guidelines (even superheroes need to follow rules ...):

- Please tell us which category you are nominating yourself.
- We need your entry ticket. There are qualification requirements. Share information that confirms that you meet this criterion.
- Make sure that your submission is limited to PDF (< 30 pages) and a video (< 20 MB). The video is not mandatory. Only in case you wish to share product details or a customer story.