

Seminar

Institute for Plasma Research

Title: Assessing Innovation Readiness for transition of technologies from Lab to Market

Speaker: Shri Tejas Parikh
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Date: 19th February 2026 (Thursday)

Time: 16:00-17:00 Hrs.

Venue: Seminar Hall, IPR

Join the talk online: URL: <https://bharatvc.nic.in/viewer/5992138016>

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Abstract

Brilliant Scientific Ideas & technologies often fail to reach the market not because of the lack of quality/novelty of idea, but due to gaps in readiness, manufacturability, investment alignment, and intellectual property (IP) strategy. Technologies pass through multiple stages of development, and communication gaps between stakeholders at these transition points often lead to promising innovations failing to progress. Technology Readiness Levels (TRL) and Manufacturing Readiness Levels (MRL) provide structured frameworks that help bridge this understanding gap among stakeholders by offering a common language to assess maturity and risks. For effective translation of research into real-world applications systematic evaluation of technology maturity, manufacturability, and associated risks is required throughout the development lifecycle. This talk focuses on the practical methodology for evaluating Technology Readiness Levels (TRL) and demonstrates how systematic TRL assessment can support informed decision-making in R&D and technology management. The session will present a step-by-step approach to TRL evaluation, including defining performance parameters, identifying evidence, and assigning readiness levels in a transparent and defensible manner. A detailed case study will be discussed to illustrate how TRL assessment is carried out in practice, highlighting common challenges, documentation requirements, and lessons learned during the evaluation process. The talk will also briefly introduce Manufacturing Readiness Levels (MRL) and Investment Readiness Levels (IRL), explaining how these complementary frameworks help bridge the gap between laboratory validation, scalable manufacturing, and commercialization potential. This talk is designed for researchers, engineers, technology managers, and innovation stakeholders, this session aims to build clarity on how readiness assessment tools can be applied within R&D organizations and incubators.
