



Plenary Session 2

Skills for the Future Infrastructure Workforce

Brief

The transformation of the infrastructure sector is redefining the very nature of work. As digital technologies, sustainability imperatives, and design innovations reshape project lifecycles, the demand for new skills and competencies has never been greater. Future-ready infrastructure will rely on a workforce proficient in data, digital systems, green technologies, and adaptive design—a shift from traditional brick-and-mortar roles to smart, sustainable, and technology-enabled careers.

This panel explores how academia, industry, and policy missions can co-create a future-ready talent ecosystem that bridges skill gaps, fosters inclusivity, and supports lifelong learning. It highlights strategies for integrating digital literacy, climate-conscious design, and hands-on vocational training to build a workforce capable of driving India's infrastructure transformation.

Key Discussion Points

How is the nature of infrastructure careers evolving in the digital and sustainability-driven era?

What emerging roles and skill sets are in demand across BIM, GIS, EV infrastructure, green construction, and digital asset management?

How can academia, skilling missions, and industry partnerships effectively bridge the gap between education and employability in infrastructure sectors?

What strategies can ensure equitable skilling and inclusion of women, informal workers, and talent from Tier-2/Tier-3 regions?

How can multi-stakeholder collaboration foster continuous learning, upskilling, and mobility within the future infrastructure workforce?

What policy frameworks and institutional supports are needed to build a robust, adaptive, and globally competitive talent pipeline?