

Session 1

Session Title: Standards for Disaster Resilient Infrastructure

Friday, 22 April 2022 (1200-1330 hrs IST)

Presented by Prof. John Dora, Director of Climate Sense

Session overview: An introduction to international standards streams for development of disaster resilient infrastructure (DRI). International standards contributing to Sustainable Development Goal (SDG) No. 13 which requires urgent action to combat climate change and its impacts and No. 9 Industry, Innovation and Infrastructure to build resilient infrastructure within the framework of the Sustainable Development Goals (SDGs), the Sendai Framework for Disaster Risk Reduction (SFDRR), and the Paris Climate Agreement.

Session Annotation: This session will explore the existing standards for embedding disaster and climate resilience in the existing and future infrastructure assets and systems. It will cover the value framework of using the International Standard ISO 14090:2019 Adaptation to Climate Change which specifies principles, requirements, and guidelines for adaptation to climate change. It includes the integration of adaptation within or across organizations, understanding the impacts and uncertainties, and how these can be used to inform decisions in future. It can be applied to any organization, regardless of size, type, and nature, e.g., local, regional, international, business units, conglomerates, industrial sectors, natural resource management units, etc.

The aim of this session is to give directions for incorporating resilience within multi-sectoral infrastructure systems throughout their lifecycle. This session will cover how standards, in particular ISO 14090 enables resilience in infrastructure assets and systems. The session focusses on various governance arrangements, role of leadership and awareness, lifecycle of products, activities, services, developing multi-level organizational capability – knowledge, resources for implementing standards through relevant certifications, how and at what point to use standards to assess impacts – risks/ vulnerability/ thresholds, using the system-of-systems perspective for resilient infrastructure.

Outcome: Through this session, participants will be able to outline how future resilience can be factored into existing infrastructure standards.

Session Speaker: Prof. John Dora, Director of Climate Sense.