

Title:**Collaborative System of systems Aviation optimization – Opportunity and challenges****Abstract:**

In India, Aviation impacts 1.4 Billion people of which only 3-5% are regular aviation travelers. Holistic nature of aviation needs collaborative framework for simultaneous optimization of multiple levels between New Technology, New Aircraft, New operational strategies at Airport and ATS levels. Multiple micro ecosystems should come together for synchronized collaborative dance. To add to this multilevel coupling complexity, there are multi objective challenges towards Environmental, Ecological and Economical optimum. Further Digitalization and Systems engineering enablers for such Collaborative System of Systems framework would enhance the speed and transparency.