

# **CREATING A SUSTAINABLE INFORMATION AND COMMUNICATION INFRASTRUCTURE**

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Modern society's dependence on information and communication infrastructure (ICI) is so deeply entrenched that it should be treated on par with other critical lifelines of our existence, such as water and electricity. As is the case with any true lifeline, ICI must be reliable, affordable, and sustainable. Meeting these requirements (especially sustainability) is a continued critical challenge, which will be the focus of my talk. More precisely, I will provide an overview of information and communication technology trends in light of various societal and environmental mandates followed by a review of technologies, systems, and hardware/software solutions required to create a sustainable ICI.