

The Network That Thinks: From Infrastructure to Intelligence

As we move toward 6G, networks are evolving from passive data pipelines to intelligent, adaptive systems. This keynote introduces the concept of cognitive infrastructure networks that sense, reason, and act autonomously.

We explore AI-native architectures capable of self-optimization, failure prediction, and context-aware adaptation. Technologies like TelecomGPT and digital twins demonstrate early realizations of this paradigm. We present practical use cases and discuss implications for standards and ethics. This shift redefines connectivity itself, moving from speed to situational intelligence at the edge of infrastructure.