

Title: Emerging Network Forms – 5G, AI and Immersive Media

Abstract:

Over the course of the next decade, users will come to depend on a class of highly intelligent immersive devices, clients and vehicles, which will realize the promise of 5G networks in the same way that the smartphone dominated the 4G era. The confluence of 5G, mixed reality, superb analytics and AI as foundational capabilities will deliver end-user value in consumer, enterprise and industrial contexts.

As people work to stitch together mixed reality with AI to build coherent and powerful experience, they will require a low-latency, high performance compute capability that cannot be implemented with a cloud or edge-only network approach. Rather, this can be achieved only through a distributed real-time compute capability. Accordingly, AI provides a framework to address the critical latency, bandwidth, redundancy, and security needs of emerging use cases by distributing data and workloads across devices, networks and virtual data centers.