

6G Readiness: network economics in an ultra-dense infrastructure era

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Abstracts

This report examines the economic and infrastructure implications of mobile network evolution toward 5G Advanced and future 6G architectures. While new radio technologies continue to improve network performance, the scalability of future mobile networks increasingly depends on the ability to deploy and operate dense infrastructure environments.

The report analyses how traffic growth, spectrum evolution and architectural transformation are reshaping mobile network infrastructure requirements. It explores the implications for network densification, transport capacity, infrastructure ecosystems and deployment economics.

Finally, the study assesses the structural constraints affecting large-scale densification, including energy consumption, regulatory barriers and infrastructure investment intensity, and outlines strategic recommendations for operators, infrastructure providers and policymakers.

Key questions:

How will mobile traffic growth and emerging digital services reshape network capacity requirements?

What role will spectrum evolution and higher frequency bands play in future mobile capacity scaling?

Why is network densification becoming the primary mechanism for increasing mobile network capacity?

How will infrastructure requirements evolve across radio networks, transport infrastructure and edge computing environments?

How does large-scale densification reshape the telecom ecosystem and value chain?

What economic and operational constraints could limit the scalability of ultra-dense mobile networks?

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