

**Asia Pacific Mobile
Network
Infrastructure
Spending Forecast,
2018-2028: *The long
migration to 5G***

Market Study
Second Quarter, 2019





Asia Pacific Mobile Network Infrastructure Spending Forecast, 2018-2028: *The long migration to 5G*

Market Study

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Abstract

4G LTE is well established in the Asia Pacific region (which includes China, South Korea and Japan) and the region is pushing hard to trial and deploy 5G. Several countries have conducted spectrum auctions with more to come. Many 5G networks are being trialed and commercial deployments are expected over the next few years. Given the size of the region and the large populations, the amount of LTE and 5G infrastructure required to provide reliable service is immense.

This market study presents a forecast for the cost of building, deploying and operating LTE and 5G networks in Asia Pacific beginning in 2018 and continuing through 2028. Included is a mobile network infrastructure build forecast, which is further detailed by mobile network component (RAN, front/backhaul, and core) and generation (LTE and 5G). The study also includes a forecast of network operating costs. In addition to the forecasts, the market study provides detailed information on evolving mobile network architectures, 5G networks, and how the Asia Pacific mobile industry is deploying 5G.

Key questions addressed in this market study include:

- How will the amount of data traffic carried on LTE and 5G networks grow in Asia Pacific in the next ten years?
- How big is the LTE and 5G infrastructure opportunity in Asia Pacific in the next ten years?
- How fast will 5G network spending grow in the next ten years in Asia Pacific?
- What is the share of infrastructure spending for the network components of RAN, fronthaul/backhaul, and core in the next ten years?
- What is the share of infrastructure spending for LTE and 5G in the next ten years?
- What are the expected mobile network operating costs in the next ten years?
- What are the various 3GPP standards leading up to 5G and what are they likely to contain?
- What is 5G? How is it defined and/or viewed right now? What are the key capabilities for 5G networks?
- What are some of the goals and use cases for 5G?
- How will U.S. mobile operators migrate from their 4G LTE networks of today to tomorrow's 5G networks?

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- What have the major Asia Pacific mobile operators done to trial and prepare for 5G? When did they launch/will they launch their initial 5G networks?
- What is Non-standalone New Radio (NSA-NR)? How do MIMO and beam steering impact 5G networks?

Who should read this report?

- Mobile operators
- Infrastructure OEMs
- Small cell product and solution vendors
- Backhaul service providers and equipment OEMs
- Financial analysts and investors.

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