

**Asia Pacific Mobile  
Network  
Infrastructure  
Spending Forecast,  
2020-2025: *Building  
LTE and 5G***

Market Study  
Second Quarter, 2021





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# **Asia Pacific Mobile Network Infrastructure Spending Forecast, 2020-2025: *Building LTE and 5G***

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## Market Study

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*iGR*

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# Table of Contents

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<b>Abstract</b> .....	<b>1</b>
<b>Executive Summary</b> .....	<b>3</b>
<b>5G and Supporting Technologies</b> .....	<b>3</b>
Spectrum .....	3
Dynamic Spectrum Sharing (DSS) .....	4
Open RAN .....	4
Virtualization .....	5
Edge Computing .....	5
<b>Spend Forecasts</b> .....	<b>5</b>
Figure A: Asia Pacific Total Mobile Network Infrastructure Build Spending, 2020-2025 (\$M)	6
Figure B: Asia Pacific Mobile Network Operating Costs, 2020-2025 (\$M) .....	7
Figure C: Total Asia Pacific Mobile Network Build and Operating Spending, 2020-2025 (\$M, Total) .....	8
<b>What This Means</b> .....	<b>8</b>
<b>Methodology</b> .....	<b>9</b>
<b>Network Model and Components</b> .....	<b>9</b>
RAN .....	9
Front/Backhaul.....	10
Core, including edge/data center/central office (CO).....	10
<b>Model Assumptions - General</b> .....	<b>10</b>
<b>Model Assumptions – Moving to 5G</b> .....	<b>11</b>
<b>iGR Cost Model and Mobile Operator Financial Disclosures</b> .....	<b>11</b>
<b>5G Defined</b> .....	<b>13</b>
eMBB .....	13
URLLC .....	14
mMTC.....	14
<b>5G Services and Use Cases</b> .....	<b>15</b>
<b>5G Network Spectrum and Technologies</b> .....	<b>16</b>
<b>Spectrum</b> .....	<b>16</b>
<b>Dynamic Spectrum Sharing (DSS)</b> .....	<b>16</b>
Figure 1: No DSS versus With DSS .....	16
Figure 2: DSS and Sharing at the Resource Block Level.....	17
<b>Challenges Along the Road to 5G</b> .....	<b>18</b>
<b>MIMO &amp; Beamforming</b> .....	<b>19</b>
MIMO .....	19
Massive MIMO and mmWave.....	19
Beamforming.....	20
<b>Open RAN and Virtualization</b> .....	<b>21</b>
<b>What does “open” mean?</b> .....	<b>21</b>
<b>What is Open RAN?</b> .....	<b>21</b>

<b>The Open RAN ecosystem .....</b>	<b>22</b>
Figure 3: O-RAN Alliance Architecture .....	23
<b>Virtualization .....</b>	<b>24</b>
<b>Edge Computing .....</b>	<b>25</b>
<b>ETSI Multi-access Edge Computing (MEC).....</b>	<b>25</b>
<b>Criteria around what goes at the edge .....</b>	<b>26</b>
<b>Where can edge compute be placed? .....</b>	<b>27</b>
<b>Asia Pacific Spectrum and 5G Networks.....</b>	<b>28</b>
<b>Australia .....</b>	<b>28</b>
Spectrum .....	28
Optus.....	28
Telstra.....	28
<b>China .....</b>	<b>28</b>
Spectrum .....	28
China Mobile .....	28
China Telecom.....	29
China Unicom .....	29
<b>Hong Kong .....</b>	<b>29</b>
Spectrum .....	29
China Mobile Hong Kong.....	29
Hutchison (3 Hong Kong).....	29
HKT .....	30
SmarTone .....	30
<b>India .....</b>	<b>30</b>
Spectrum .....	30
Bharti Airtel .....	30
Reliance Jio.....	30
Vodafone Idea (VI) .....	30
<b>Indonesia.....</b>	<b>30</b>
Spectrum .....	30
<b>Japan .....</b>	<b>31</b>
Spectrum .....	31
KDDI.....	31
NTT DoCoMo .....	31
Softbank .....	31
Rakuten .....	31
<b>New Zealand.....</b>	<b>31</b>
Spectrum .....	31
Spark .....	31
Vodafone New Zealand .....	32
2degrees.....	32

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<b>Philippines</b> .....	<b>32</b>
Globe .....	32
PLDT .....	32
<b>Singapore</b> .....	<b>32</b>
Spectrum .....	32
Singtel.....	32
M1 .....	33
StarHub .....	33
<b>South Korea</b> .....	<b>33</b>
Spectrum .....	33
5G Deployment .....	33
KT .....	33
LG Uplus .....	33
SK Telecom .....	34
<b>Taiwan</b> .....	<b>34</b>
Spectrum .....	34
APT .....	34
Chunghwa Telecom .....	34
Far EasTone Telecommunications (FET).....	34
Taiwan Mobile.....	34
Taiwan Star.....	34
<b>Thailand</b> .....	<b>34</b>
Spectrum .....	34
AIS .....	35
True .....	35
<b>Asia Pacific Mobile Connections and Data Traffic Forecast</b> .....	<b>36</b>
<b>Asia Pacific Mobile Connections Forecast</b> .....	<b>36</b>
Table 1: Forecasted Asia Pacific Mobile Connections, 2020-2025 (Millions) .....	37
Figure 4: Forecasted Asia Pacific Mobile Connections, 2020-2025 (Millions).....	37
<b>Asia Pacific Mobile Data Traffic Forecast</b> .....	<b>37</b>
Table 2: Assumed Total Asia Pacific Network Usage, 2020-2025 (EB/year).....	38
Figure 5: Assumed Total Asia Pacific Network Usage, 2020-2025 (EB/year) .....	38
<b>Asia Pacific Infrastructure Build Cost Forecast</b> .....	<b>39</b>
<b>Methodology and Assumptions</b> .....	<b>39</b>
<b>Asia Pacific Mobile Infrastructure Build Spending by Network Component</b> .....	<b>41</b>
Table 3: Asia Pacific Mobile Network Infrastructure Build Spending, 2020-2025 (\$M) .....	42
Figure 6: Asia Pacific Total Mobile Network Infrastructure Build Spending, 2020-2025 (\$M)	43
.....	43
Figure 7: Asia Pacific Mobile Network Infrastructure Build Spending by Component, 2020-	43
2025 (\$M).....	43

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Table 4: Asia Pacific Mobile Network RAN and Open RAN Build Spending, 2020-2025 (\$M)	44
Figure 8: Asia Pacific Mobile Network RAN and Open RAN Build Spending, 2020-2025 (\$M)	44
Table 5: Asia Pacific Mobile Network Infrastructure Build Spending by Component, 2020-2025 (percent)	45
Figure 9: Asia Pacific Mobile Network Infrastructure Build Spending by Component, 2020-2025 (percent)	45
<b>Asia Pacific Mobile Infrastructure Build Spending by Generation</b>	<b>45</b>
Table 6: Asia Pacific Mobile Data Traffic by Generation, 2020-2025 (percent)	46
Figure 10: Asia Pacific Mobile Data Traffic by Generation, 2020-2025 (percent)	46
Table 7: Asia Pacific Mobile Network Infrastructure Build Spending by Generation, 2020-2025 (\$M)	47
Figure 11: Asia Pacific Mobile Network Infrastructure Build Spending by Generation, 2020-2025 (\$M)	47
Table 8: Asia Pacific Mobile Network Infrastructure Build Spending by Generation, 2020-2025 (percent)	48
Figure 12: Asia Pacific Mobile Network Infrastructure Build Spending by Generation, 2020-2025 (percent)	48
<b>Asia Pacific Mobile Network Operating Cost Forecast</b>	<b>49</b>
Table 9: Asia Pacific Mobile Network Operating Costs, 2020-2025 (\$M)	49
Figure 13: Asia Pacific Mobile Network Operating Costs, 2020-2025 (\$M)	50
<b>Asia Pacific Total Mobile Network Cost Forecast</b>	<b>51</b>
Table 10: Total Asia Pacific Mobile Network Build and Operating Spending, 2020-2025 (\$M)	51
Figure 14: Total Asia Pacific Mobile Network Build and Operating Spending, 2020-2025 (\$M, Total)	52
Table 11: Total Asia Pacific Mobile Network Build and Operating Spending, 2020-2025 (percent)	52
Figure 15: Total Asia Pacific Mobile Network Build and Operating Spending, 2020-2025 (percent)	53
<b>Definitions</b>	<b>54</b>
Definitions Table	54
<b>About iGR</b>	<b>75</b>
<b>Disclaimer</b>	<b>75</b>

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## Abstract

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5G has been launched by mobile operators in select countries in the Asia Pacific region, but 5G networks will take many years to fully deploy. As a result, LTE will continue to carry the majority of Asia Pacific mobile data traffic for the next few years, even as some mobile operators' build spending is primarily targeted at 5G.

This market study presents a forecast for the cost of building, deploying and operating LTE and 5G networks in the Asia Pacific region from 2020 through 2025. Included is a mobile network infrastructure build forecast, which is detailed by mobile network component (RAN, front/backhaul, and core) and generation (LTE and 5G). The RAN build component is further detailed by Open RAN and traditional RAN. The study also includes a forecast of network operating costs.

In addition to the forecasts, the market study provides detailed information on 5G networks, Open RAN, virtualization, and edge computing, as well as a status update on auctioned 5G spectrum and 5G network deployments in Asia Pacific.

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 five years?
- How big is the LTE and 5G infrastructure opportunity in Asia Pacific in the next five years?
- What is the share of infrastructure spending for the network components of RAN, fronthaul/backhaul, and core?
- What portion of RAN spending will be for Open RAN?
- What is the share of infrastructure spending for LTE and 5G in the next five years?
- What are the expected mobile network operating costs in the next five years?
- What are the key capabilities for 5G networks and what are some of the goals and use cases for 5G?
- What is the status of 5G spectrum auctions in Asia Pacific?
- What is the status of the major Asia Pacific mobile operators' 5G networks?

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- What are some of the technologies being used to support the deployment of 5G, such as dynamic spectrum sharing, MIMO and beamforming?
- What are the new architectures that are being used to evolve the mobile network and support 5G, such as Open RAN, virtualization and mobile edge computing?

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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