5G Networks and Devices: a Global Snapshot

October 2019

Global mobile Suppliers Association – GSA

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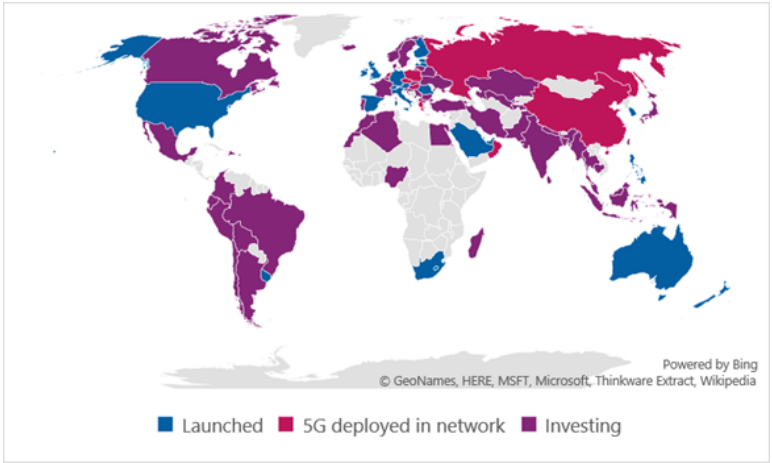
THE NUMBER OF 5G NETWORKS IS RISING FAST

321 operators investing in 3GPP-compliant 5G networks, 46 of which have launched services

GSA's data shows:

- 321 operators in 103 countries are investing in 5G (in the form or tests/trials, acquisition of licences, deployment of networks and launch of services).
- 62 operators have deployed 3GPP compliant 5G technology in their networks.
    - Of which…
    - 46 have launched a 3GPP-compliant 5G service
    - 34 operators have launched 3GPP-compliant 5G mobile services (32 full launches, 2 limited availability launches).
    - 27 operators have launched 3GPP-compliant 5G FWA or home broadband services (17 full launches, 10 limited availability launches).

5G investment worldwide, according to status of most advanced operator investments

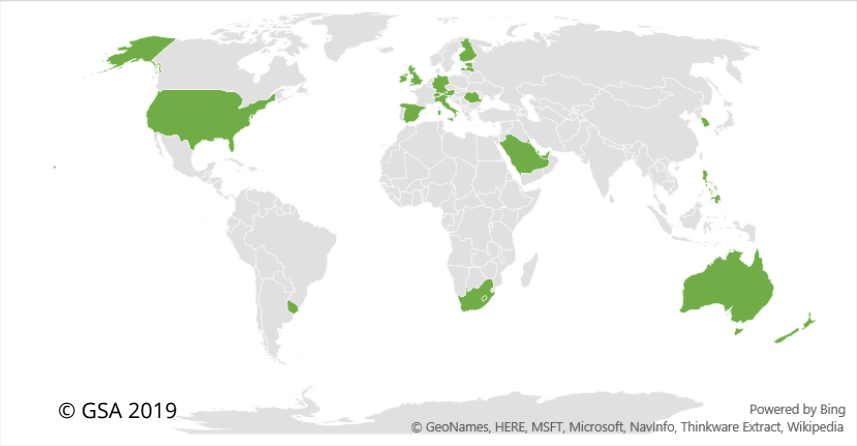


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5G NETWORKS CAN BE FOUND ALL AROUND THE WORLD

Commercial launches: Americas: 5, Asia-Pacific: 7, Europe: 20, Middle East and Africa: 14

Americas:
Uruguay (Antel), USA (AT&T Mobility, Sprint, T-Mobile US, Verizon Wireless)



Europe:
Austria (3 Austria), Estonia (Elisa), Finland (Elisa, Telia), Germany (T-Mobile, Vodafone), Ireland (Vodafone), Italy (TIM, Vodafone), Latvia (Tele2), Monaco (Monaco Telecom), Romania (RCS & RDS [Digi Mobil], Vodafone), Spain (Vodafone), Switzerland (Sunrise Communications, Swisscom), UK (3 UK, EE, O2, Vodafone)

Middle East and Africa:
Bahrain (Batelco, Viva), Kuwait, (Ooredoo, Viva, Zain), Lesotho (Vodacom), Maldives (Dhiraagu), Qatar (Ooredoo, Vodafone), Saudi Arabia (STC, Zain), South Africa (Rain), United Arab Emirates (Du, Etisalat),

Asia-Pacific:
Australia (Optus, Telstra), New Zealand (Spark), Philippines (Globe), Republic of Korea (KT Corporation, LG Uplus, SK Telecom)

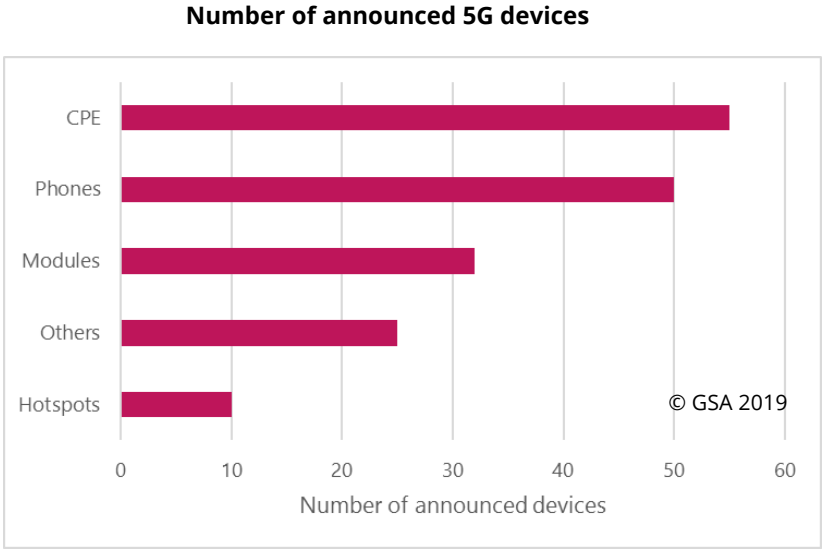
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THE DEVICE ECOSYSTEM IS EXPANDING RAPIDLY

As of mid-October GSA had identified 172 announced 5G devices

The GAMBoD database includes 172* announced 3GPP compliant 5G devices from 71 vendors (at least 38 of them commercially available), including:

- 15 form factors including:
  - 50 phones
  - 55 CPE devices
  - 32 modules
  - 10 hotspots
  - 25 others (snap-on dongles/adapters, robots, routers, drones, TVs, head-mounted displays, USB terminals, a laptop, a switch, and a vending machine).



* not all of the announced devices are commercially available at this stage, includes regional variants but not prototypes, includes phones that are 5G-enabled with adapter

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