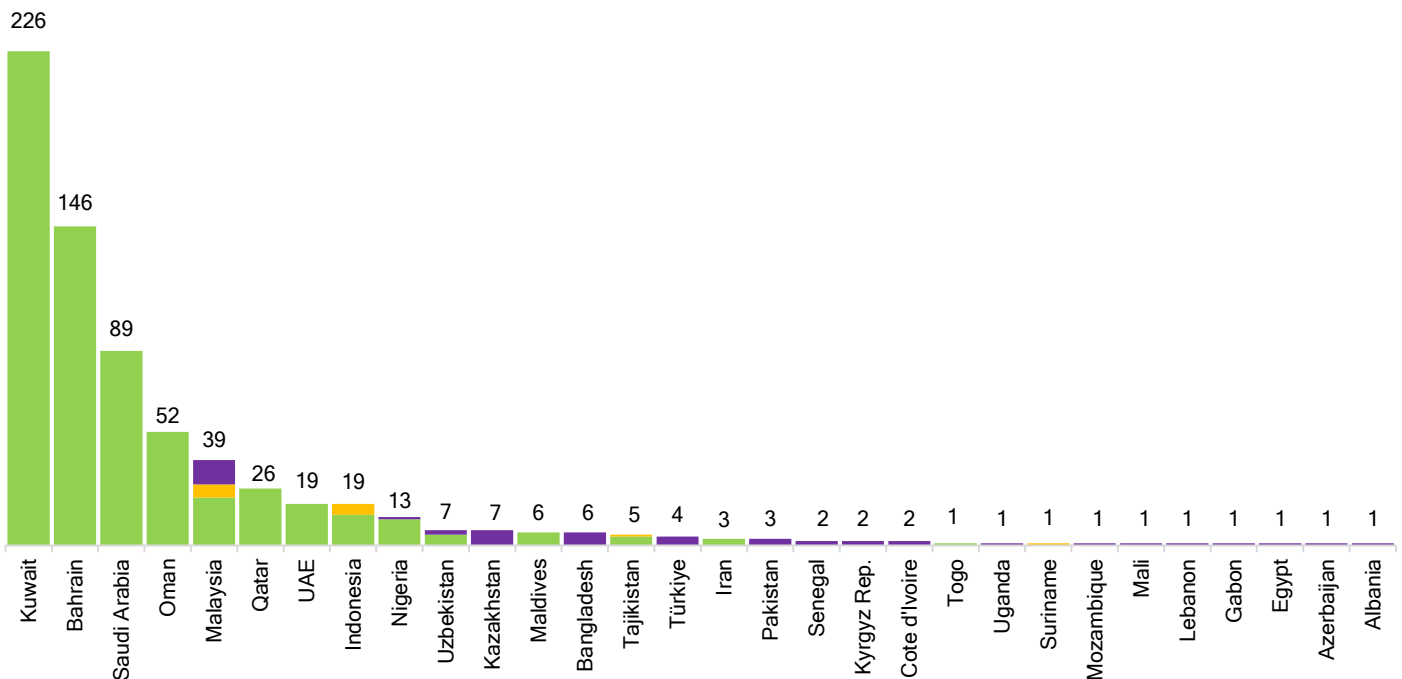


DID YOU KNOW?

2022-02

5G Network Deployments in OIC Countries, by Type (as of 31 Oct. 2022)

■ Commercial Availability ■ Limited Availability ■ Pre-Release



The **Fifth Generation (5G)** of mobile network is becoming a central point of innovation for digital services and supporting industries, which can benefit the manufacturing sector.

As SDG 9 calls for building resilient infrastructure, promoting inclusive and sustainable industrialisation, and fostering research and innovation, **5G mobile network** is anticipated to have a greater effect on the world economy than any earlier iterations.

Currently, the world has **121,559 deployments** of the 5G network and of which **686 deployments** (0.6% of world) are found in 30 OIC countries as end of October 2022.

Among the **three types of 5G deployment**, the OIC countries group has **625 commercial availability** deployments, **13 limited availability** deployments and **48 pre-release** deployments.

The **Gulf Cooperation Council (GCC)** countries namely, Kuwait with (226) deployments, Bahrain (146), Saudi Arabia (89), Oman (52), Qatar (26) and United Arab Emirates (19) account for **81.3% of the 5G deployments** in the OIC countries.

On the other hand, the **top two high-technology exporting** countries of OIC namely, **Malaysia** and **Indonesia** respectively have **39** and **19** deployments of 5G network.

Only **Nigeria (13)** has the highest deployments of 5G network among the **OIC countries in Sub-Saharan Africa** and 5G deployment of 5G is **still limited** in OIC countries in this region.

Half of the OIC countries with 5G network deployments **only have pre-release deployments**. These deployments are mainly in **Kazakhstan (7)**, **Bangladesh (6)**, **Türkiye (4)**, **Pakistan (3)**, **Senegal (2)**, **Kyrgyz Republic (2)** and **Cote d'Ivoire (2)**.

Although 5G networks are becoming a central point of innovation for digital services, safety experts have argued that 5G services could significantly **disrupt aviation industry** owing to the **potential risk of interference with radio altimeters**, which are **essential for aircraft landing and safety systems** (IATA, 2022).

Note: Commercial Availability: A 5G network is present and devices are available for consumers to purchase and use, **Limited Availability:** A 5G network is present but devices are limited to select consumers, **Pre-Release:** 5G network hardware is in place but is currently in testing and /or not yet accessible to consumers.

Sources: SESRIC staff calculations based on data extracted on 24/10/2022 from Ookla 5G Map, Speedtest (<https://www.speedtest.net/ookla-5g-map>). Please visit OIC Statistics (OICStat) Database (<http://bit.ly/2F7W8cv>) for other Transportation and Communication indicators.

IATA (2022), Ensuring the safe rollout of 5G services, <https://airlines.iata.org/news/ensuring-the-safe-rollout-of-5g-services>