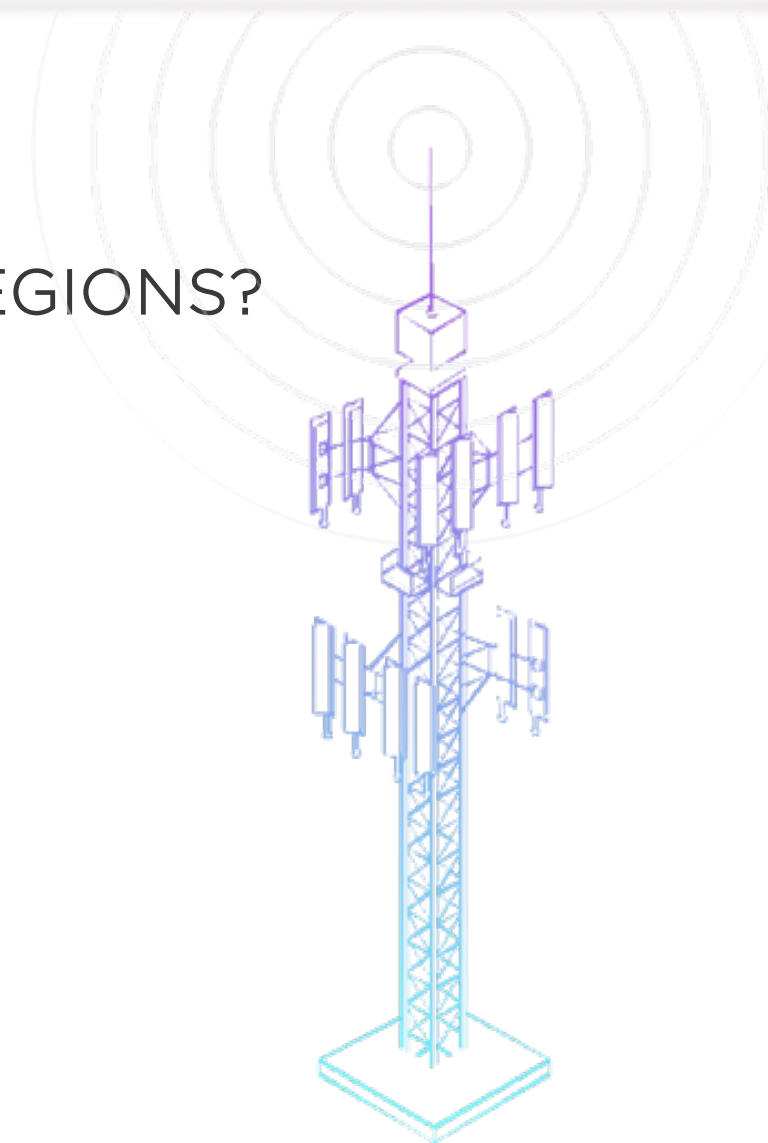# 5G SPEEDTEST AND LATENCY
HOW DOES MENA COMPARE WITH OTHER REGIONS?

James Carroll
Director Strategic Initiatives, Ookla

From the **ANNUAL GCF 5G MENA 2020**
November 23rd 2020

SPEEDTEST

Throughput in the world of 5G

Speedtest® is uniquely capable of measuring the full throughput capability of a 5G connection.

Speedtest uses a client and server testing engine that dynamically scales the number of connections to the server in order to saturate and accurately measure client-side connections **up to 10 Gbps**.

+12,000,000
TESTS DAILY

+300,000,000
COVERAGE SCANS DAILY

12,000+
SERVERS GLOBALLY
IN OVER 190 COUNTRIES

100%
OF THE WORLD'S COUNTRIES
REPRESENTED IN OOKLA DATA

+30,000,000,000
TESTS TO DATE

Preparing for 5G

Consumer Side
- Distributed Server Network
- Multi Server Test Capability
- Application Upgrades
- Multi Threading
- Device Readiness

Enterprise Products
- New KPIs
- New Tools

Determine a connection's inbound bandwidth by testing how quickly it can download data

Determine a connection's outbound bandwidth by testing how quickly it can upload data

Understand your connection quality by testing latency down to the millisecond

Diagnose network jitter by testing how your ping times are fluctuating

SPEEDTEST

5G Numbers

One-day data snapshot for October 31st, 2020

59,549   tests
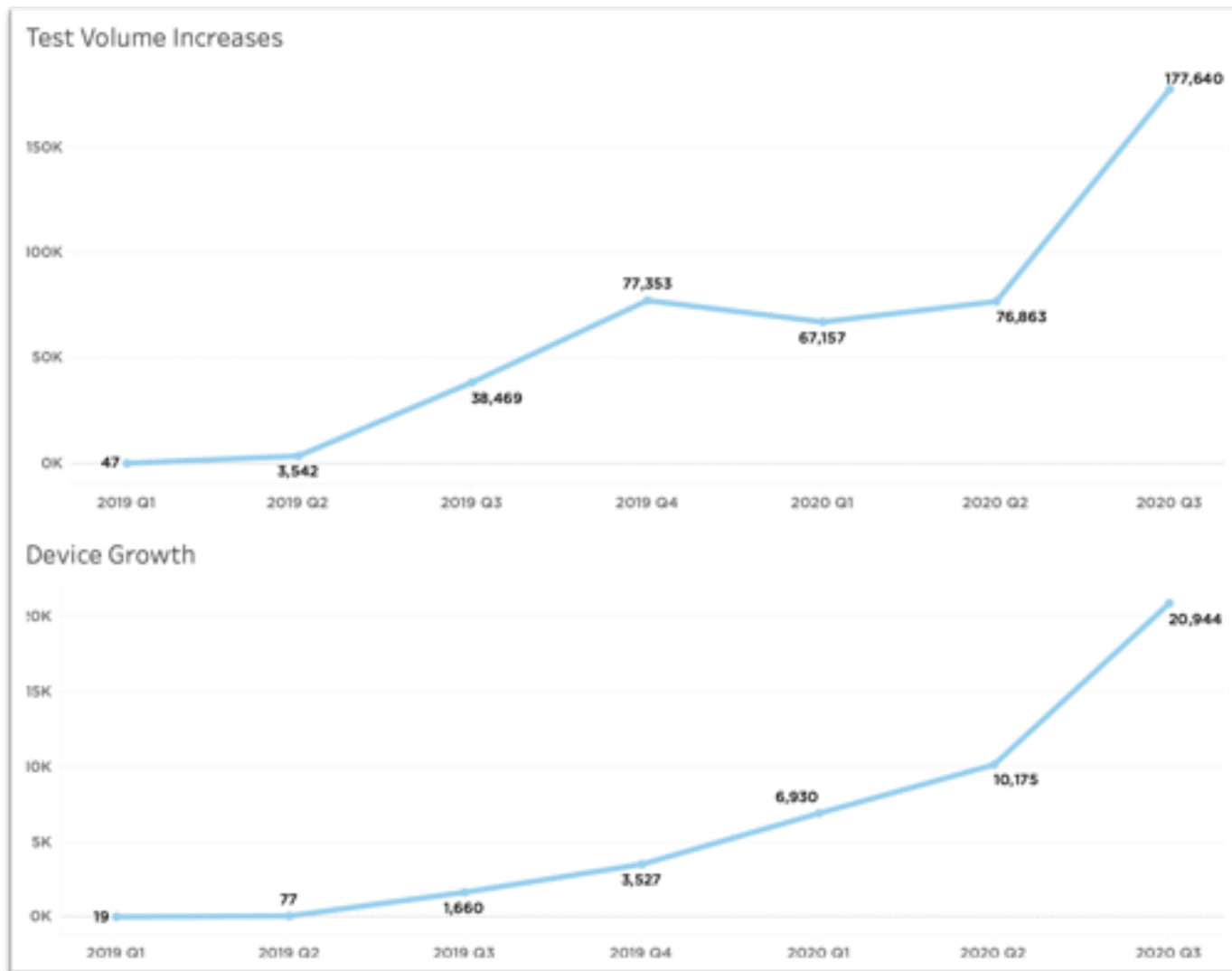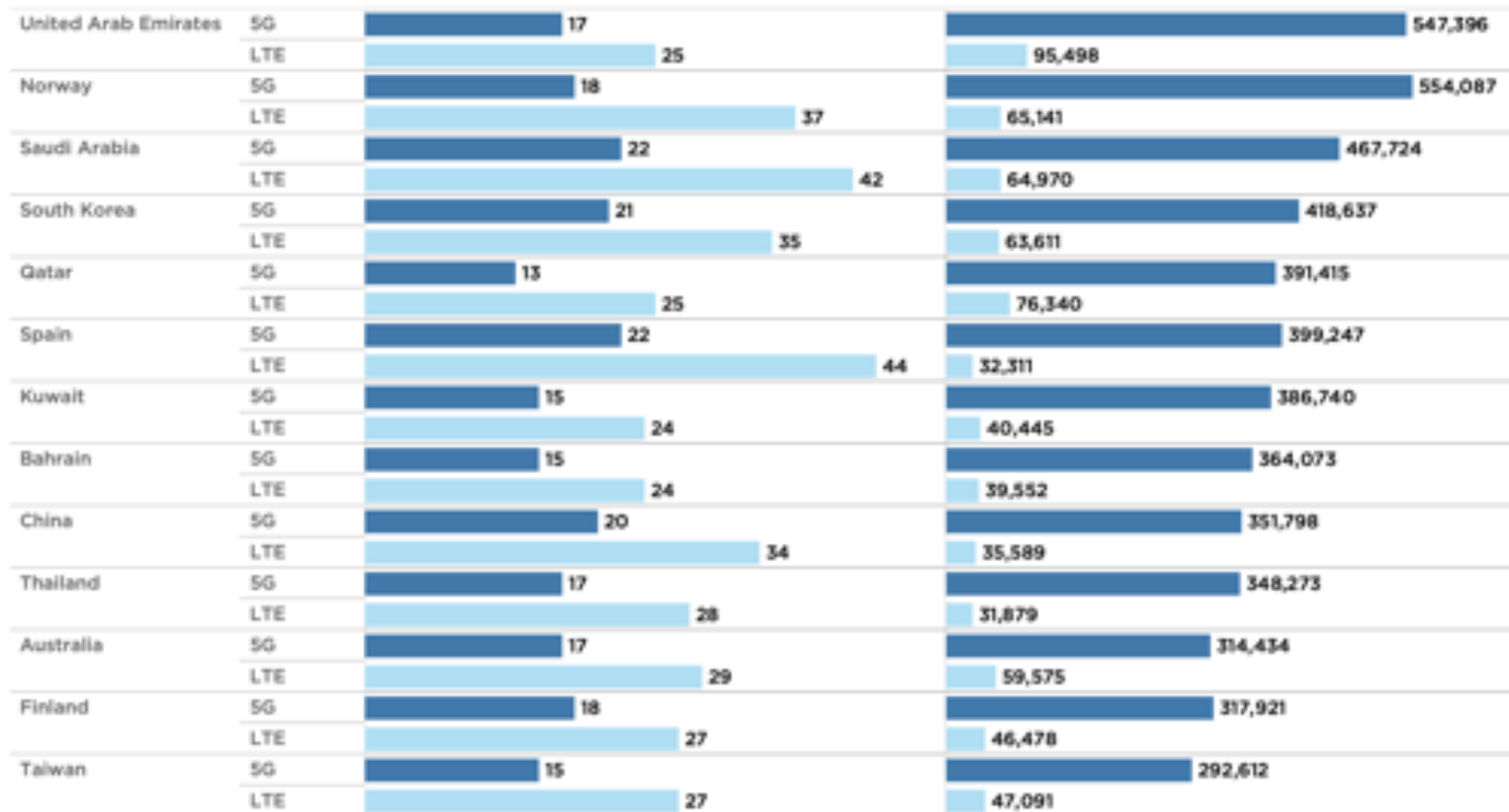162   networks
2,274   devices

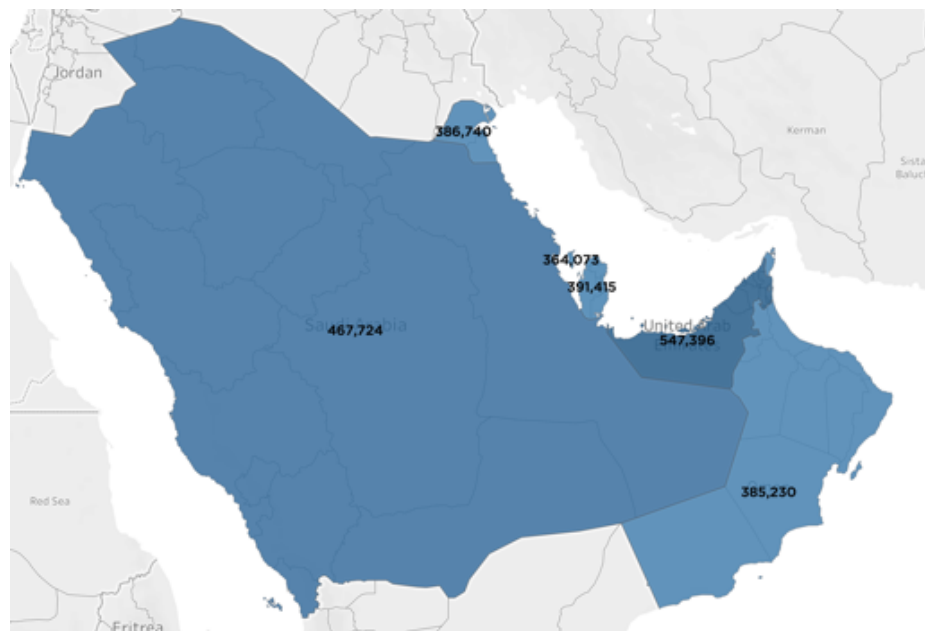**Maximum speeds:**
download: 3,916 Mbps
upload: 273 Mbps
latency: 4 ms

Test Volume Increases

177,640

150K

100K

77,353

50K

67,157

76,863

38,469

0K   47   3,542

2019 Q1   2019 Q2   2019 Q3   2019 Q4   2020 Q1   2020 Q2   2020 Q3

Device Growth

20,944

20K

15K

10K

10,175

6,930

5K

3,527

0K   19   77   1,660

2019 Q1   2019 Q2   2019 Q3   2019 Q4   2020 Q1   2020 Q2   2020 Q3

5G throughput and latency in the wild

5G Device Locations

China	106,971
United States	95,125
United Kingdom	17,605
Saudi Arabia	13,020
Taiwan	12,707
Australia	10,905
Thailand	6,345
Hong Kong	5,040
Netherlands	4,739
Kuwait	4,299
Germany	3,718
Puerto Rico	3,551
South Korea	3,418
Canada	2,759
Switzerland	2,399
United Arab Emirates	2,197
Finland	2,085
Italy	1,419
Philippines	1,377
Spain	1,177
Poland	962
Qatar	953
Japan	853
Denmark	825
Romania	808
Norway	776
Ireland	619
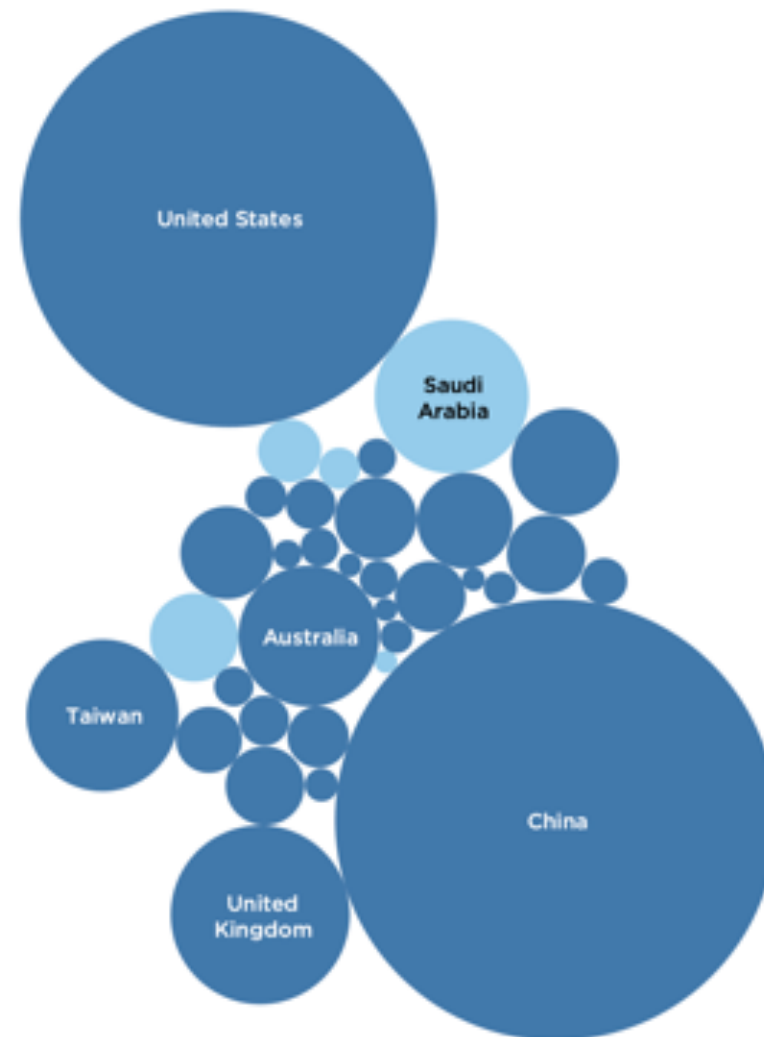
Ookla enterprise solutions
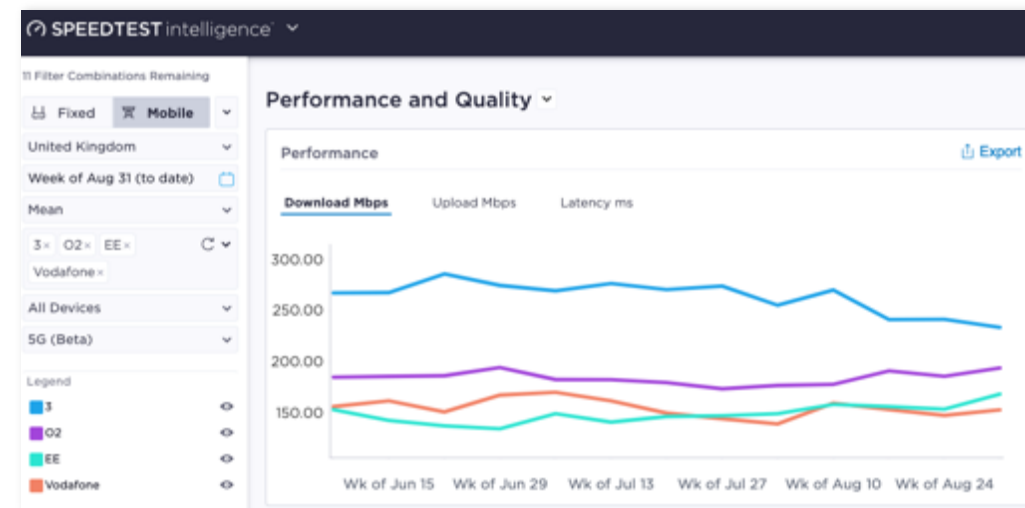
Public Ookla resources
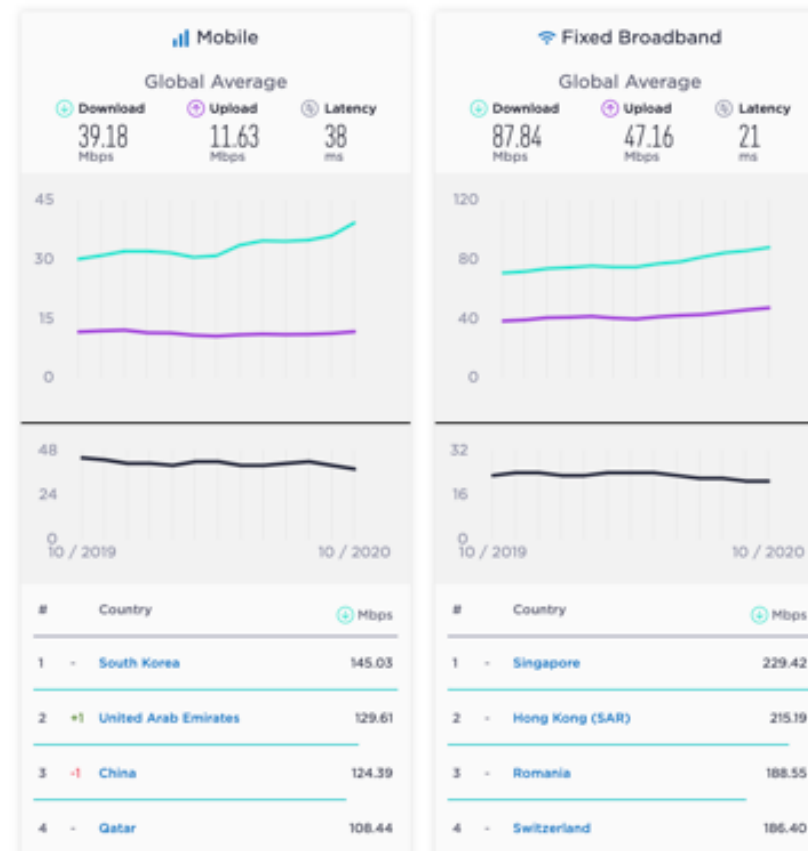
SPEEDTEST

THANKS

james@ookla.com
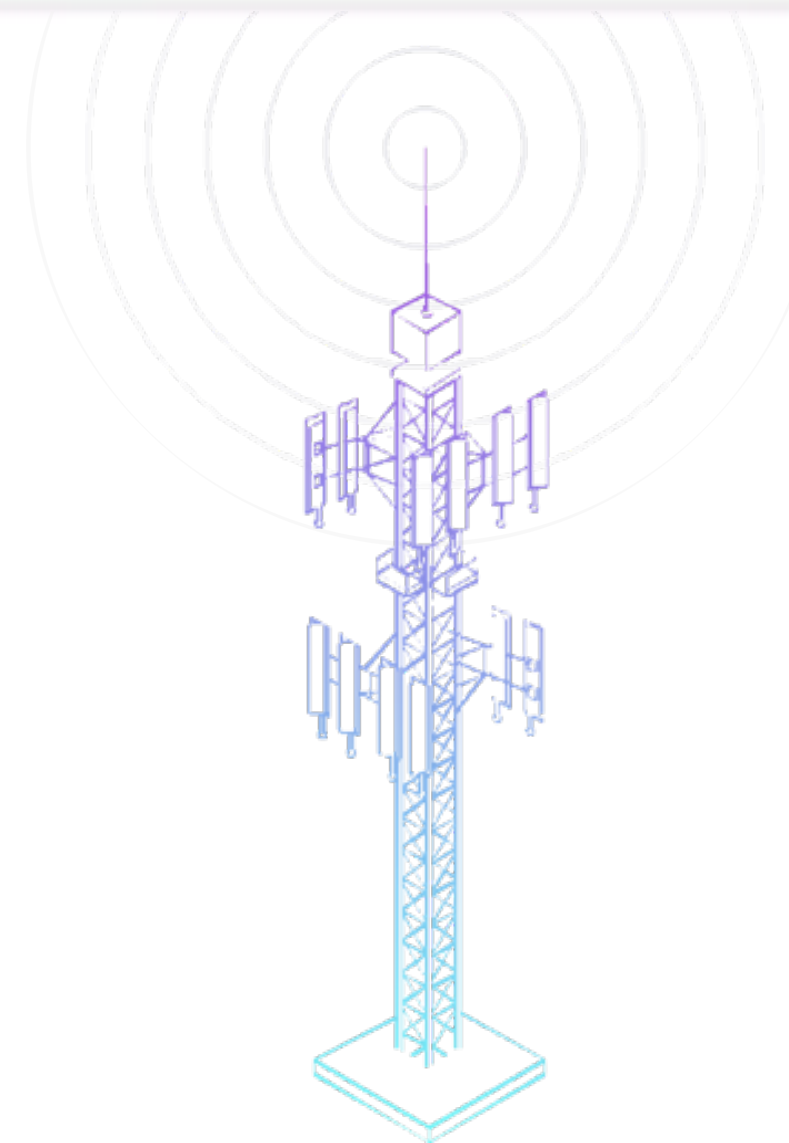
SPEEDTEST

Back Up

Ookla®

The global leader in mobile and broadband network intelligence, testing applications and technology. With over 12 million consumer-initiated tests taken daily on the company's flagship platform, Speedtest, Ookla provides invaluable insight into the performance, quality and accessibility of networks worldwide. Operators, businesses and government agencies alike rely on Ookla for unparalleled and immediate information on the state of networks and online services.

Ookla's family of companies includes:

Mosaik™ — data visualization and analytics for mobile coverage

Downdetector™ — real-time analysis of status and outages for services

SpatialBuzz™ — real-time customer feedback combined with device radio measurements to help operators find, prioritise, and fix problems

5G throughput and beyond

Operator	Radio Signal	Connection	Radio Access Network	Device Information
Information about the subscriber network and the network to which the device is connected	Information about signal strength and quality (e.g., RSRP, RSRQ, RSSI), frequency band (EARFCN, UARFCN, ARFCN) and other properties of the cellular connection	Data connection type and cellular connection type	Tracking area (LAC/TAC), base station ID, cell ID, physical cell ID	Latitude, longitude, altitude, accuracy and age of location