

## CELLSMART Research Reveals Mobile Operators Must Increase Upload Speeds on their 5G Networks to Be Enterprise-Ready

CELLSMART Global Cellular Performance Survey uses data captured by network engineers globally to provide a unique snapshot of 3G, 4G, and 5G performance.

Cannes, France, XX May 2022 – CELLSMART, the cellular intelligence division of SmartCIC, has launched its Global Cellular Performance Survey, which found that 5G networks are delivering high download speeds while lagging in upload speeds that support enterprise applications. The global average 5G download speed between March and May 2022 was 241.61 Mbps while upload speeds were only 31.27 Mbps. Upload speeds only showed an increase of 55% over the 4G global average, while download speeds leapt by 330%. As enterprises look to 5G for connectivity to drive agile solutions, they will need faster speeds to support data transfer.

The CELLSMART Global Cellular Performance Survey collects data from telecoms network engineers working in the field to provide an up-to-date snap shot of actual performance across cellular technologies. It is using the data it collects in its planning, network selection and service development and monitoring for fixed wireless enterprise customers.

### TOP 5 METRO MARKETS 5G Average Download Speed

CANNES (FRANCE)  
MUNICH (GERMANY)  
NASHVILLE (US)  
OSLO (NORWAY)  
SINGAPORE

“The research shows how MNOs have prioritised 5G download speeds in their initial rollouts and now there’s an opportunity to focus on enterprise demand for rapid upstream data transfer. 5G networks are showing upload speeds that are 13% of their download speeds while 4G has a balanced download/upload symmetry with 36%,” said Toby Forman, CEO at SmartCIC. “Based on the research sample, we saw 5G delivering higher

latency than 4G in some cases. This may be due to a number of the 5G tests being run on low-band networks. Where results have been taken in areas with mmWave, there are dramatically different results including downloads in excess of 800mbps, uploads in excess of 250mbps and latencies of sub 10ms.

2,538 telecoms network engineers across 51 countries ran speed tests in 331 unique locations globally to capture network performance data. Each engineer ran the tests independently in the field and submitted result anonymously between March 25 2022 and May 6 2022. Data samples span Africa, Asia, Australia, the Americas and Europe. Data analysis was conducted by the CELLSMART team.

### TOP 5 MOBILE NETWORK OPERATORS Maximum Download Speeds (All Technologies)

du (UAE)  
Telia (Sweden)  
Deutsche Telekom (Germany)  
EE (UK)  
Singtel (Singapore)

“We went out to our global network of 25,000 engineers and asked them to log network performance wherever they were operating. Over time, as we see more results added to our database and we’ll be able to provide an accurate and evolving snapshot of how cellular technologies are performing in the field. This initial cut of data is just the start of the process. As we begin to see greater density of results globally we will those into insights for our customers and the broader market,” said Forman. “We did this because this information simply didn’t exist on a global scale and we believe the market needs intelligent cellular solutions.”

### About CELLSMART

CELLSMART is powered by SmartCIC and has been designed to enable enterprise customers to rapidly roll out cellular solutions and benefit from new intelligence-driven deployments. It provides the end-to-end planning, network selection, routing and backhaul solutions, equipment deployment, management, monitoring and support for enterprise fixed wireless networks.

CELLSMART’s solutions are built using leading technology partners and supported by over 25,000 engineers in 200 countries around the world.

[www.cellsmart.io](http://www.cellsmart.io)

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