



WINDTRE is Italy's Speedtest Awards™ Winner for mobile network speed during Q1—Q2 2020

43.92

Speed Score™

44.43
Avg. Speed Mbps

13.15
Avg. Speed Mbps

Speed Score™

WINDTRE	43.92
TIM	32.95
Iliad	31.34
Vodafone	30.20

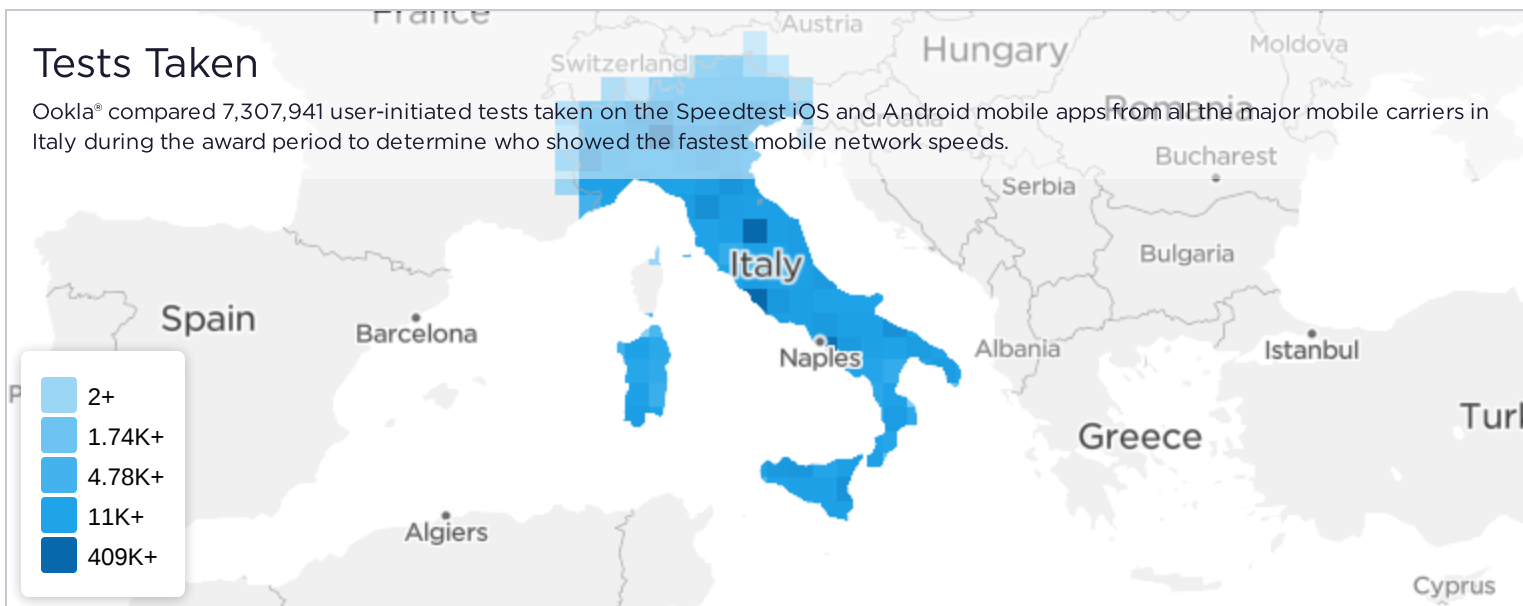
Test Counts

WINDTRE	933,423
TIM	1,473,619
Iliad	1,318,354
Vodafone	1,749,095



Tests Taken

Ookla® compared 7,307,941 user-initiated tests taken on the Speedtest iOS and Android mobile apps from all the major mobile carriers in Italy during the award period to determine who showed the fastest mobile network speeds.



Market Statistics

Unique Devices

1,463,203

Avg. Download Speed

34.26 Mbps

Avg. Upload Speed

11.41 Mbps

Avg. Latency

45 ms

iPhone X	66,242
iPhone 7	65,382
iPhone 8	46,210
iPhone Xr	44,848
iPhone 6s	40,036

WINDTRE	44.43
TIM	35.83
Vodafone	33.67
Iliad	32.01

WINDTRE	13.15
TIM	11.83
Vodafone	10.88
Iliad	10.69

WINDTRE	48
TIM	33
Vodafone	40
Iliad	57

How Speed Score™ Works

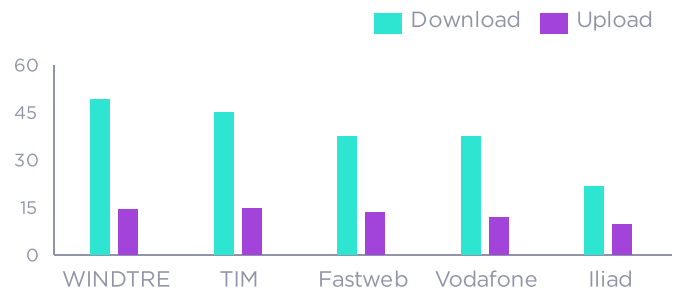
When analyzing fastest operators, Ookla solely considers top carriers (all carriers with 3% or more of total test samples in the market for the period). We then determine the fastest carrier using Speed Score which incorporates a measure of each provider's download and upload speed to rank network speed performance (90% of the final Speed Score is attributed to download speed and the remaining 10% to upload speed). The Speed Score uses a modified trimean to demonstrate the download and upload speeds that are available across a provider's network. We take speeds from the 10th percentile, 50th percentile (also known as the median), and 90th percentile, and combine them in a weighted average using a 1:8:1 ratio, respectively. We place the most emphasis on the download speeds and median speeds as those represent what most network providers' customers will experience on a day-to-day basis.

	Download Trimean	90th Percentile	50th Percentile	10th Percentile	Upload Trimean	90th Percentile	50th Percentile	10th Percentile
WINDTRE	47.48	120.09	43.51	6.58	11.86	31.62	10.62	2.02
TIM	35.45	93.51	31.96	5.31	10.47	29.40	9.21	1.63
Iliad	33.72	88.92	30.20	6.64	9.92	25.42	8.99	1.84
Vodafone	32.48	86.83	28.96	6.31	9.72	26.22	8.68	1.59

City Network Speeds

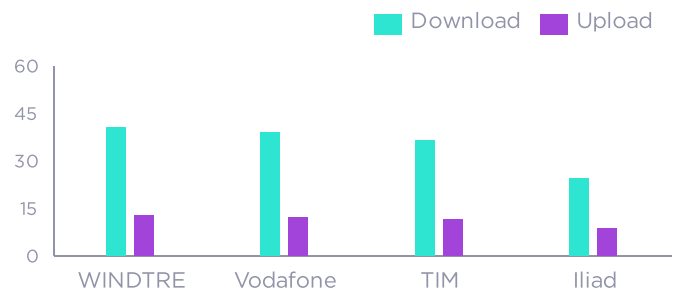
Milan

Carrier	Download Mbps	Upload Mbps
WINDTRE	49.25	14.44
TIM	44.88	14.75
Fastweb	37.49	13.29
Vodafone	37.28	11.84
Iliad	21.67	9.59



Rome

Carrier	Download Mbps	Upload Mbps
WINDTRE	40.43	12.71
Vodafone	38.93	12.30
TIM	36.50	11.63
Iliad	24.49	8.56



Turin

Carrier	Download Mbps	Upload Mbps
WINDTRE	57.34	19.99
TIM	47.91	15.37
Vodafone	36.24	11.67
Iliad	29.83	12.36

