European 5G QoE Benchmarking

Report Release at MWC23

Executive presentation

Feb. 27, 2023

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Universal QoE

By MedUX

Making Quality of Experience available and affordable with customer centric and cost-effective solutions

MedUX presents...

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5G

Empowering
5G customer-centric use cases
with real field data

Speed and latency are not everything... Join the QoE Revolution

5G Benchmark in Europe

with TRUE QoE KPIs

Best QoE

Best Reliability | **Fastest 5G Speed** | **Lowest responsiveness**

Streaming | **Data & OTT** | **Web Browsing**

5G Gaming | **5G Coverage** | **...and more**

MedUX

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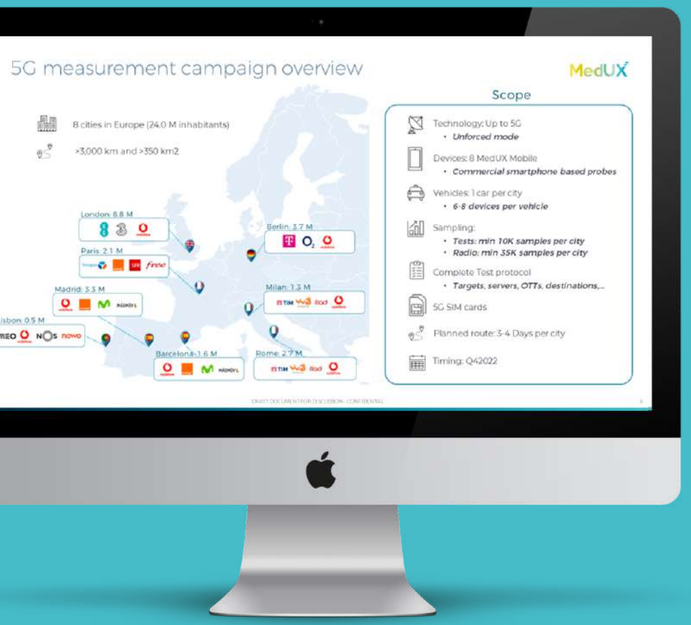
Stats and scope of QoE benchmarking in Europe



MedUX MOBILE

>3,000 km
distance driven

>350 km2
surface covered

6 countries
DE ES FR GB IT PT

8 cities
BER BCN MAD LIS LON
MIL PAR ROM

5G QoE Bench

30 days
of measurement

24 MM
inhabitants

>115 k
performance tests

>350k
radio samples

bouygues · free · EE · iliad · MÁSMÓVIL · MEO · Movistar · NOS · nowo · orange · O2 · SFR · T · 3 · TIM · vodafone · WINDTRE

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1.5 Gbps

Top real 5G Throughput in a European City

5G Benchmark in Europe

leveraging true QoE KPIs

Did you know that?

Fastest 5G speed has been recorded in Berlin

Telekom customers leverage the potential of 160 MHz

Telekom uses top carrier aggregation in Europe with up to 5 carriers

Excellent radio conditions could lead up to 1.8Gbps

Measured live Germany

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Best QoE in European cities

Top experience in a European City

5G Benchmark in Europe

leveraging true QoE KPIs

Did you know that?

Speed matters but a consistent experience is king in 5G

Social networks loading time is half than other cities (<800ms)

Lisbonians enjoy best accesibility, data&OTT experience

Top Gaming experience thanks to top median latency (<50ms)

Measured live

Portugal

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Best Reliability in European cities

Top reliability in a European City

5G Benchmark in Europe

leveraging true QoE KPIs

Did you know that?

Most consistent network experience recorded in Berlin

Only 31 internet sessions every 25000 failed in Berlin

Twitter, and downloading sessions have a perfect score

Streaming is least reliable, but still a success rate of 99.66%

Measured live

Germany

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Best Reliability in Barcelona

GSMA MWC™ Barcelona

Top reliability in Barcelona

5G Benchmark in Europe

leveraging true QoE KPIs

Did you know that?

Vodafone Spain most consistent experience in Barcelona

A perfect voice reliability score and almost perfect in data with 99.81%

Gaming, streaming, downloading sessions have a perfect score

Twitter least reliable but still a success rate of 99.22%

Measured live Spain

vodafone

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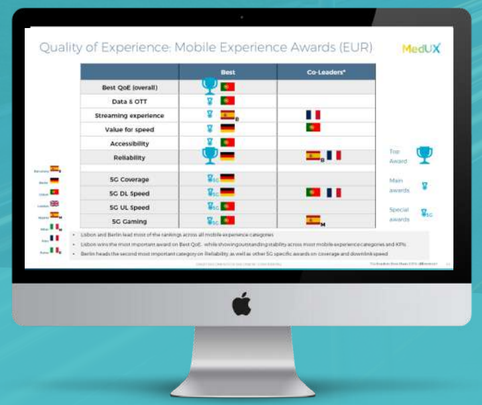
Mobile Experience Awards



Awarded cities Q4 2022

BEST QOE EXPERIENCE AWARDS

LISBON	#1 QOE, DATA & OTT, ACCESSIBILITY, 5G GAMING, 5G UL SPEED, VALUE FOR SPEED, 5G DL SPEED
MADRID	GAMING
BERLIN	RELIABILITY, VALUE FOR SPEED, 5G COVERAGE, 5G DL SPEED,
BARCELONA	STREAMING, RELIABILITY
PARIS	RELIABILITY, 5G DL SPEED
LONDON	
MILAN	
ROME	

LEADERS
CO-LEADERS

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Best QoE in European cities

Top experience in a European City

CONGRATULATIONS

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Download our 5G QoE Report

www.medux.com

THANK YOU!