Audit Report

Turkey, 2025

umlaut

Intro

Measurement setup

The leader in mobile benchmarking, umlaut, has analyzed the mobile networks in Turkey with regards to mobile network performance. This audit report was commissioned by Vodafone.

umlaut tested and evaluated the performance of voice and data services using Samsung Galaxy S23+, benchmarking the typical user experience on turkish networks.
The testing was conducted in cities and towns as well as on connection roads, using a moving vehicle for drive testing between 20.02.2025 and 10.03.2025.
As the de–facto industry standard, our benchmarking methodology focuses on customer–experienced network quality and covers a wide range of mobile services.

Today, more than 200 mobile networks in more than 120 countries are being evaluated by our unique scoring methodology.
It allows a technical analysis that is unprecedented in its level of detail and enables comparisons between the network performance and capability of each mobile network. Our public benchmarks as well as the certificate benchmarks help network operators to demonstrate how well they are delivering wireless connections to consumers, business users and enterprises and reveal areas of improvement.

Drivetest	Voice	Data
Device	Samsung Galaxy S23+ (S916B)	Samsung Galaxy S23+ (S916B)
Test Cases	Mobile–to–Mobile Side1 (VoLTE, 5G pref.) to Side2 (VoLTE, 5G pref.) 105 sec call window 70 sec call duration 15 sec call setup timeout Multi–RAB traffic injection on both sides	Data 5G preferred HTTP 7s DL & HTTP 7s UL HTTPS 10MB DL & HTTPS 5MB UL Web Browsing (4 international pages, 4 local pages, 1 ETSI reference, 1 umlaut reference page) 2 YouTube videos (VOD and Live video) Interactivity eGaming & Video Chat Conversational App
Mobility and Route Types	Drive test 100% 55% in Cities, 17% in Towns and 28 % on Roads	
Samples	~ 11 829	~ 115 906
Dates	16 measurement days 20.02.2025 – 10.03.2025	
Crowd Data Assessment	24 weeks CW39 2024 – CW10 2025	

Testing area

Drive route
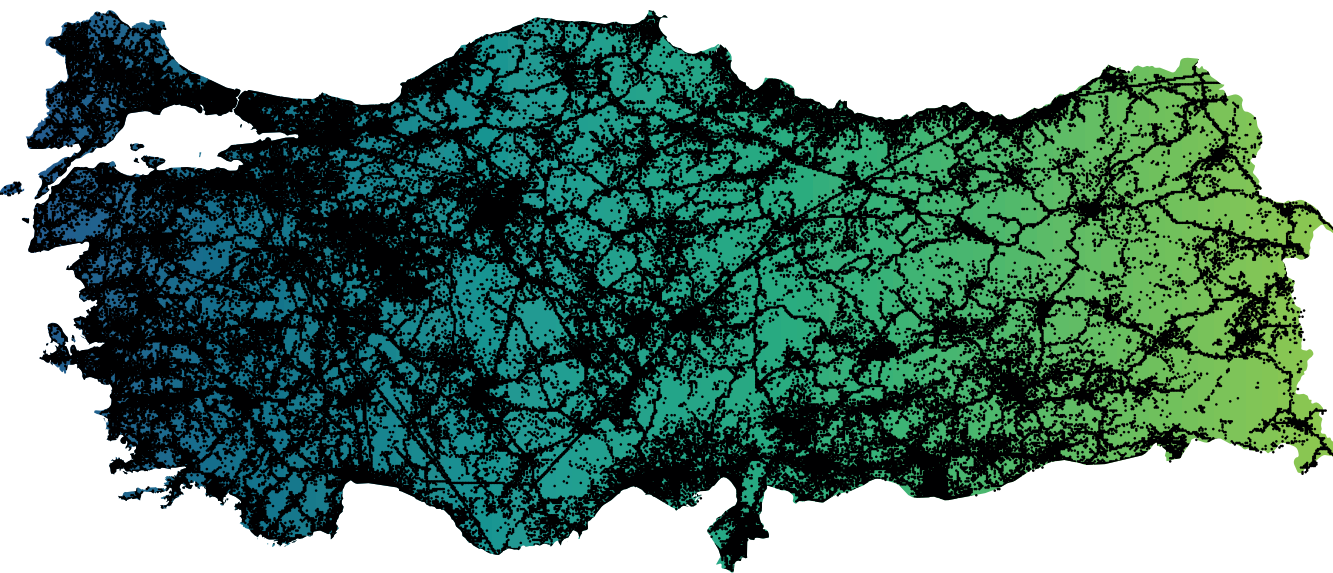

Istanbul
Bursa
Balikesir
Ankara
Izmir
Konya
Antalya
Adana

8000 km
measuring distance

37 %
of population measured

Crowdsourcing based test area

93.1 %
of the 'built–up area' covered

345,910 km²
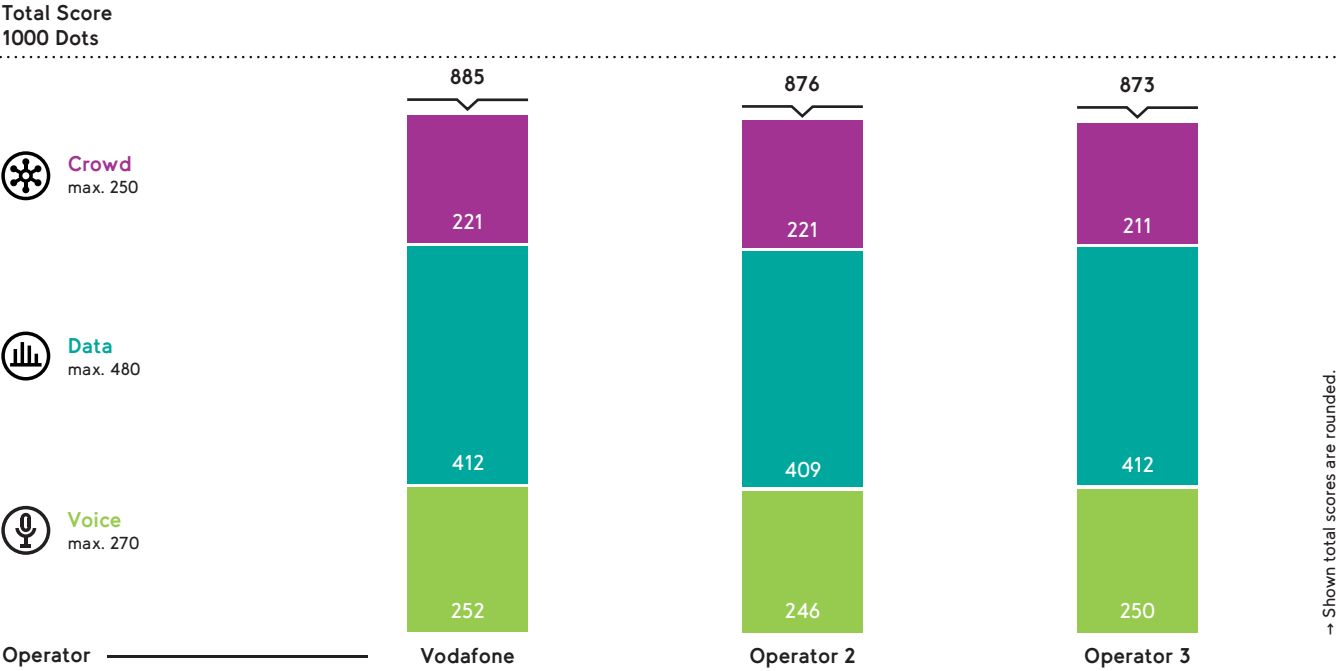size of tested area

95.9 %
of the 'Population area' covered

Nationwide — Score Overview

Overall results and breakdown

Total Score
1000 Dots

Crowd
max. 250

Data
max. 480

Voice
max. 270

Operator

	Vodafone	Operator 2	Operator 3
885	876	873
221	221	211
412	409	412
252	246	250
Vodafone	Operator 2	Operator 3

↑ Shown total scores are rounded.

Overall score considering Voice, Data and Crowdsourcing.

Total score

		Vodafone	Operator 2	Operator 3
Voice	max. 270	252	246	250
Cities Drivetest	162	94%	92%	94%
Towns Drivetest	54	96%	93%	95%
Roads Drivetest	54	90%	87%	86%
Data	max. 480	412	409	412
Cities Drivetest	288	85%	85%	86%
Towns Drivetest	96	86%	85%	86%
Roads Drivetest	96	87%	85%	85%
Crowdsourced Quality	max. 250	221	221	211
Broadband Coverage	100	96%	91%	92%
Download Speed	55	75%	81%	88%
Upload Speed	20	86%	92%	93%
Latency	50	86%	89%	57%
Voice	10	96%	91%	90%
Stability	15	96%	93%	94%
Total	1000	885	876	873

Shown scores are rounded.

Natıonwıde — Reliability overview

Overall Reliability results and breakdown

Total Score
600 Dots

551   538   544

Consistent UE
max. 150

136   135   132

Data Reliability
max. 288

268   259   260

Voice Reliability
max. 162

147   144   152

Operator ──────────   Vodafone   Operator 2   Operator 3

↑ Consistent UE = Consistent User Experience (Crowd)
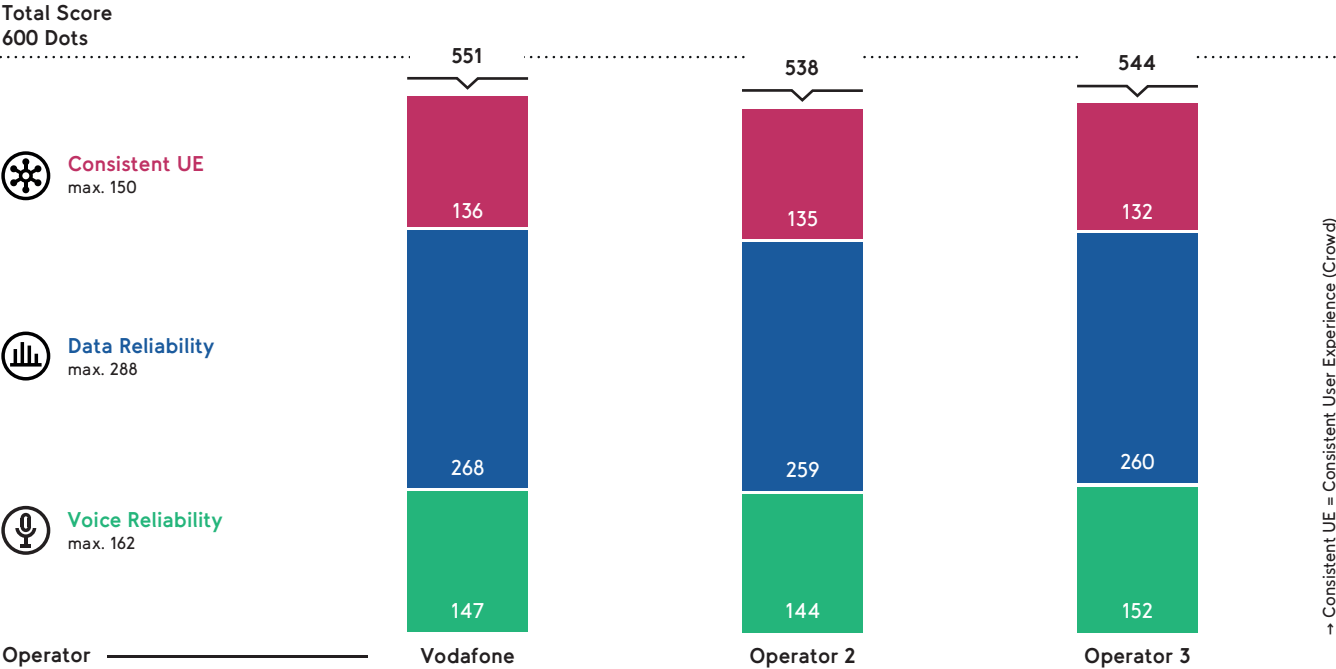
Reliability score considering Voice Reliability, Data Reliability and Consistent UE.

Total score

	Service Group	max	Vodafone	Operator 2	Operator 3
Reliability	Voice Reliability	162	91%	89%	94%
	Data Reliability	288	93%	90%	90%
	Consistent User Experience	150	91%	90%	88%

Score achievement in school grades:
outstanding (≥95%), very good (≥85% and <95%), good (≥75% and ≤85%), satisfactory (≤65% and <75%), sufficient (≤55% and <65%).

Istanbul — Score Overview
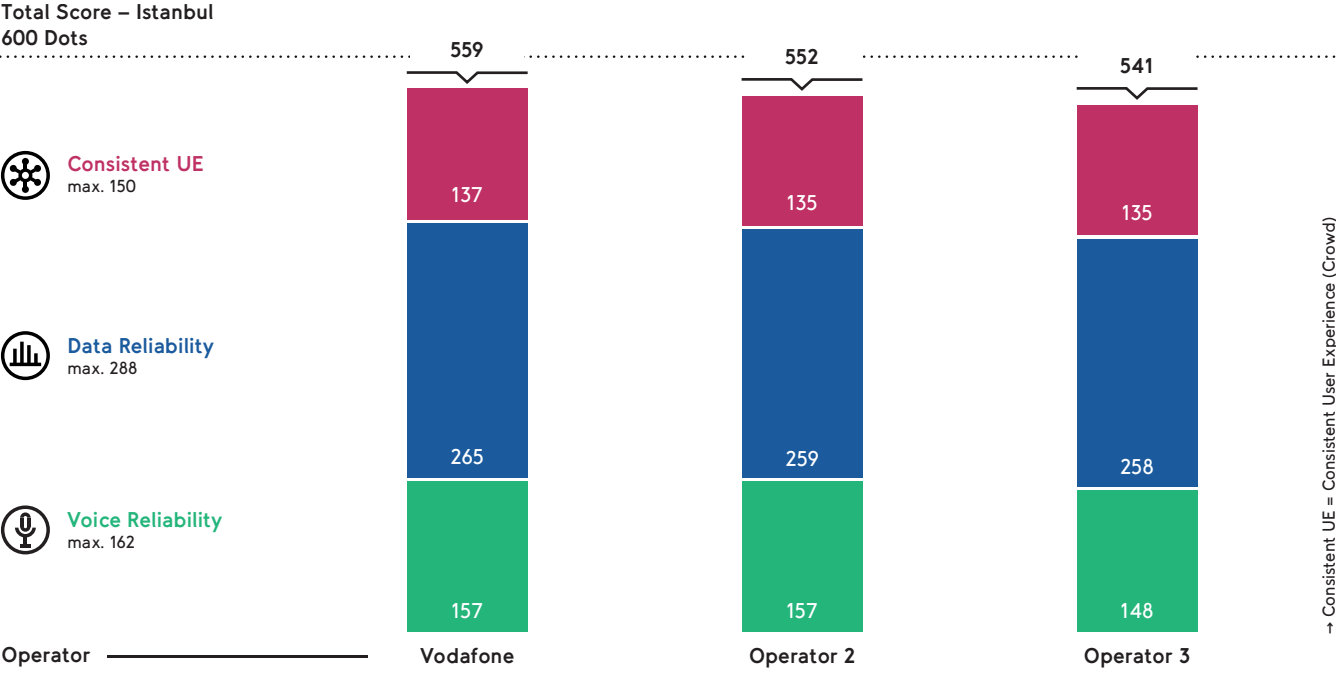
Overall results and breakdown

Total Score – Istanbul
1000 Dots

	Vodafone	Operator 2	Operator 3
	893	888	878
Crowd max. 250	221	216	222
Data max. 480	409	415	406
Voice max. 270	263	257	250

Operator

↑ Shown total scores are rounded.
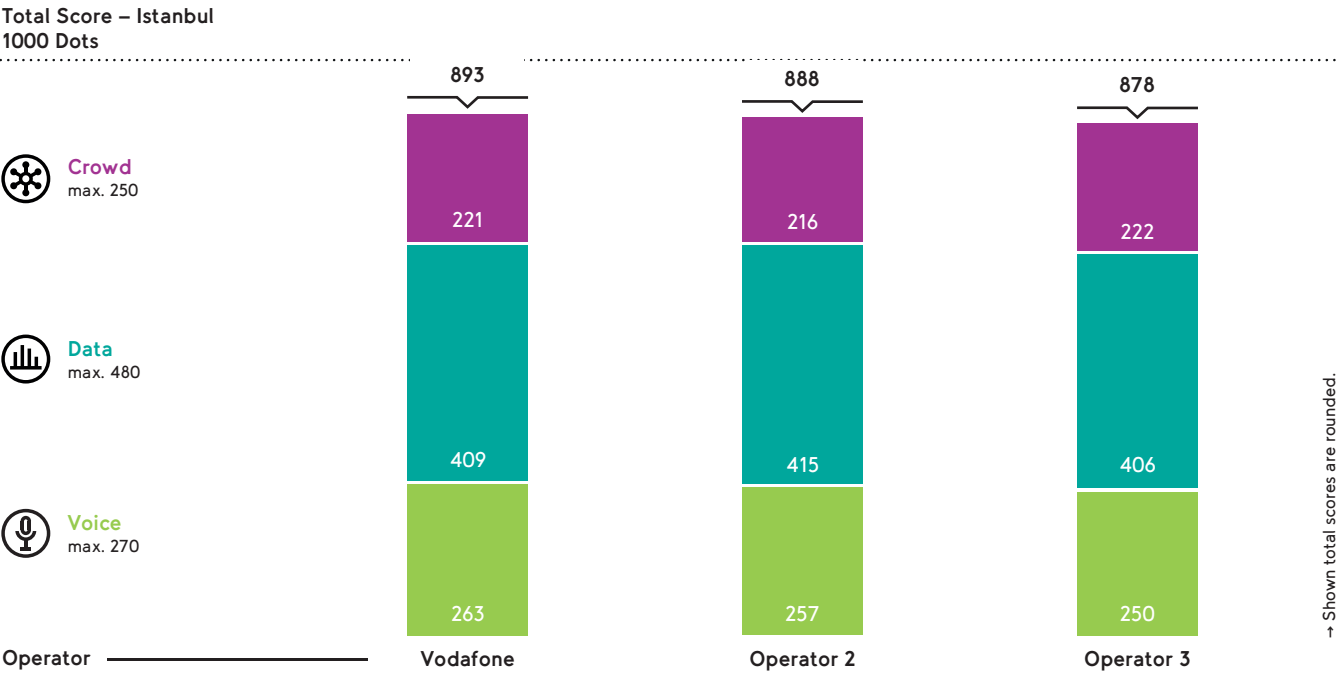
Overall score considering Voice, Data and Crowdsourcing in Istanbul.

Istanbul — Reliability overview
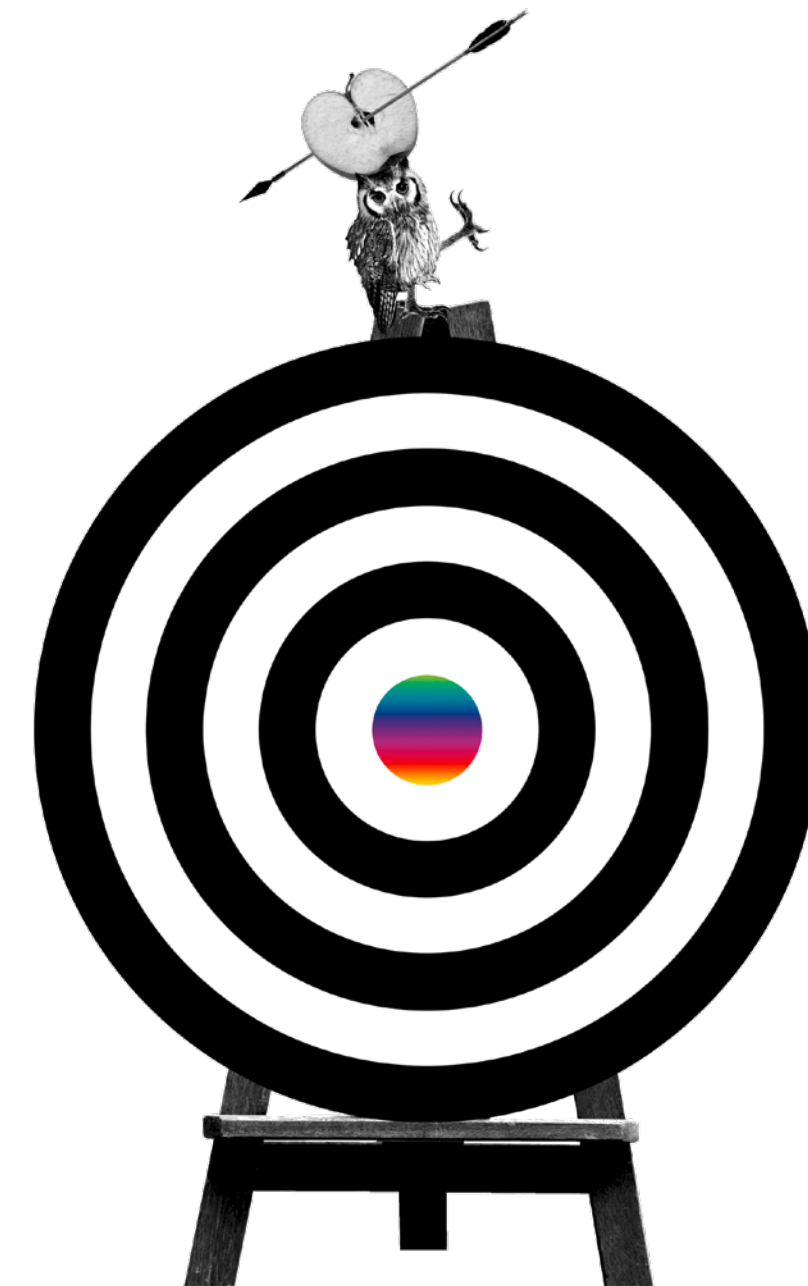
Overall Reliability results and breakdown

Total Score – Istanbul
600 Dots

	Vodafone	Operator 2	Operator 3
	559	552	541
Consistent UE max. 150	137	135	135
Data Reliability max. 288	265	259	258
Voice Reliability max. 162	157	157	148

Operator

↑ Consistent UE = Consistent User Experience (Crowd)

Reliability score considering Voice Reliability, Data Reliability and Consistent UE in Istanbul.

Key takeaways

Nationwide, Vodafone shows the highest overall mobile performance with 885 points out of 1000.

Vodafone is leading in the voice category with 252 out of 270 points.

In the data category Vodafone shows the highest score with 412 points out of 480 and is on par with Operator 3.

In crowdsourced Quality Vodafone has the highest score on par with Operator 2 with 221 points out of 250.

Vodafone has the most reliable network in the nationwide assessment.

Vodafone shows the highest overall score in Istanbul with 893 Points out of 1000.

In Istanbul, Vodafone also has the most reliable network.