

NET CHECK

MOBILE BENCHMARK MEASUREMENT REPORT Slovenia, April-May 2022

With an overall score of 918 points,

A1 Slovenia

achieved the highest score among competitors and won the mobile network benchmark test

Score
918
out of 1000
in **Total**

Score
375
out of 400
in **Voice
Services**

Score
543
out of 600
in **Data
Services**



METHODOLOGY



NET CHECK pairs engineering expertise with statistically proven methodologies to design network performance tests and collect data that represents consumer experience.

The main focus of NET CHECK ranking is an assessment of the end-user experience. We evaluate service accessibility, retainability, network quality and performance.

Performance is assessed with extensive drive tests in big cities, medium cities, small cities, and connecting roads.

The winner is deduced by weighting all data.

DRIVE TEST ROUTE & MEASUREMENT SETUP

Start: April 24, 2022
End: May 7, 2022

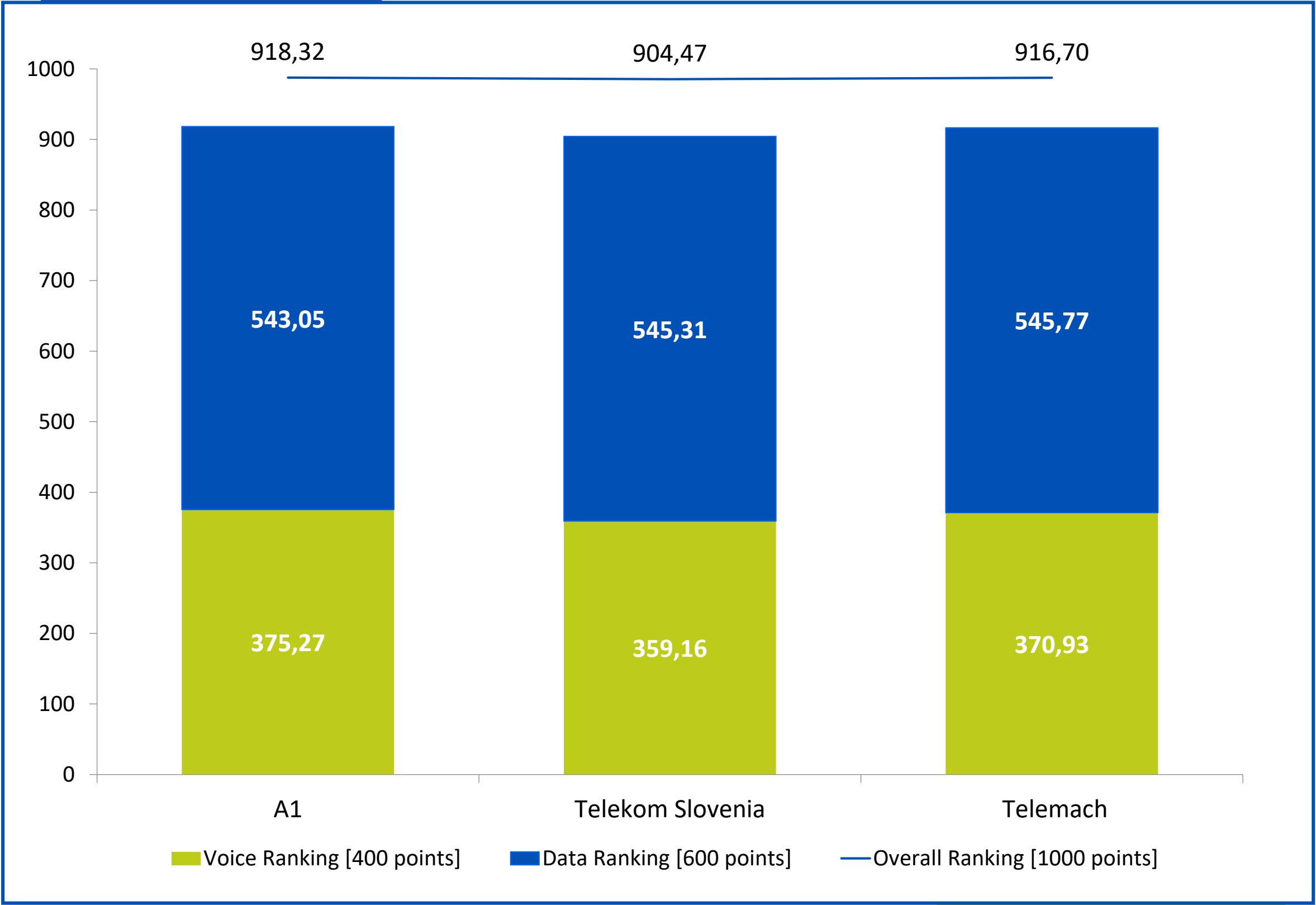


	Voice	Data
DEVICE	Samsung S21+5G	
ROUTE TYPE	Cities and Connecting Roads	
SAMPLE COUNT	~ 2100 per operator	~ 30000 per operator
TEST CASE SCENARIO	Max Call Setup Time: 30 [s] Call duration: 120s [s] Call window: 160 [s] Call mode: VoLTE preferred Speech quality: POLQA Reference File: English Scenario: 5 x VoLTE preferred + 1 x What's app call	HTTP time based: DL/UL 10 [s] (FDTT) HTTP file based: DL / UL 10MB/5MB (FDFS) Facebook YouTube (livestream) Browsing static and dynamic (Kepler as static, and dynamic based on Alexa ranking)

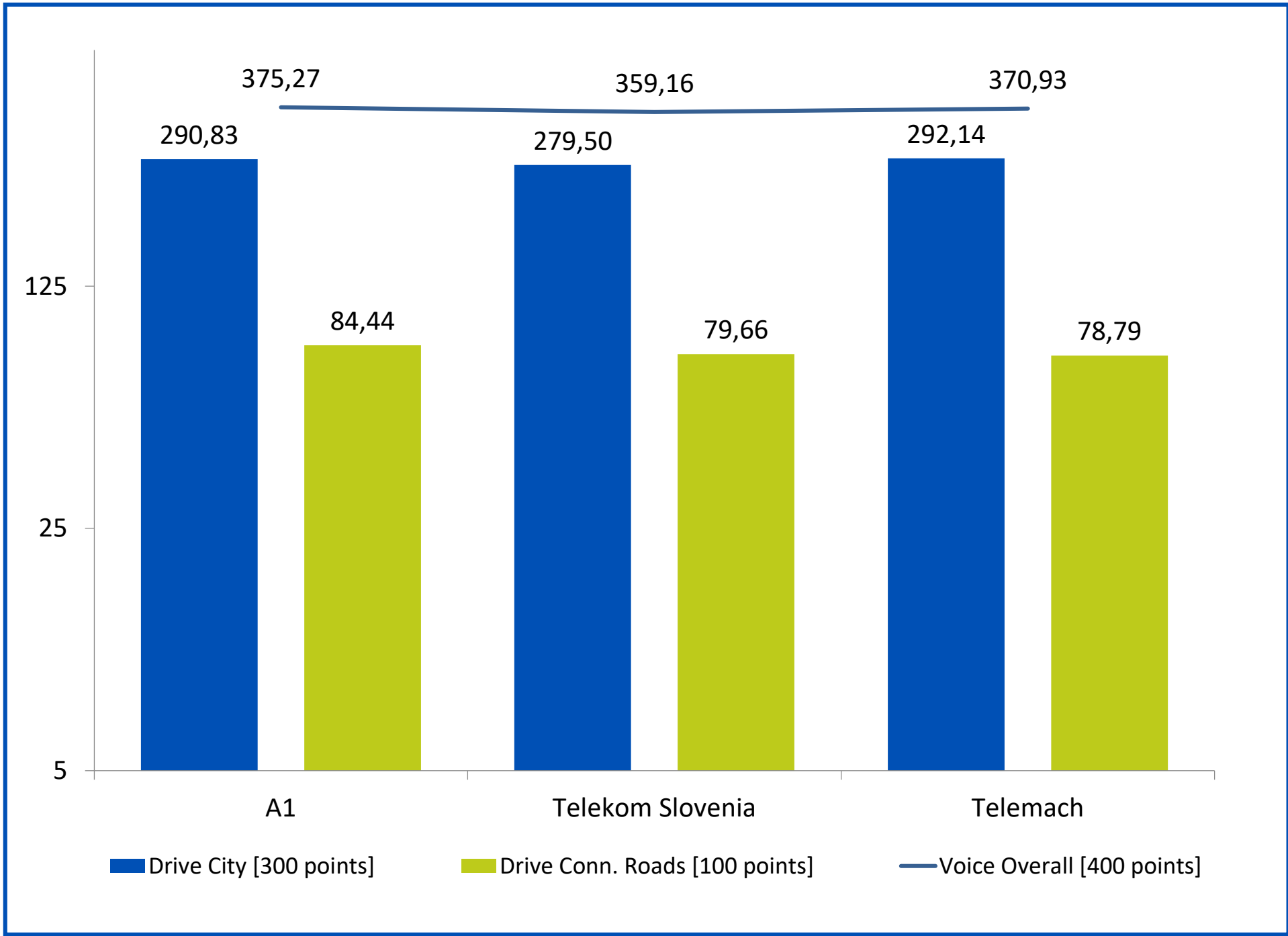


OVERALL RESULTS

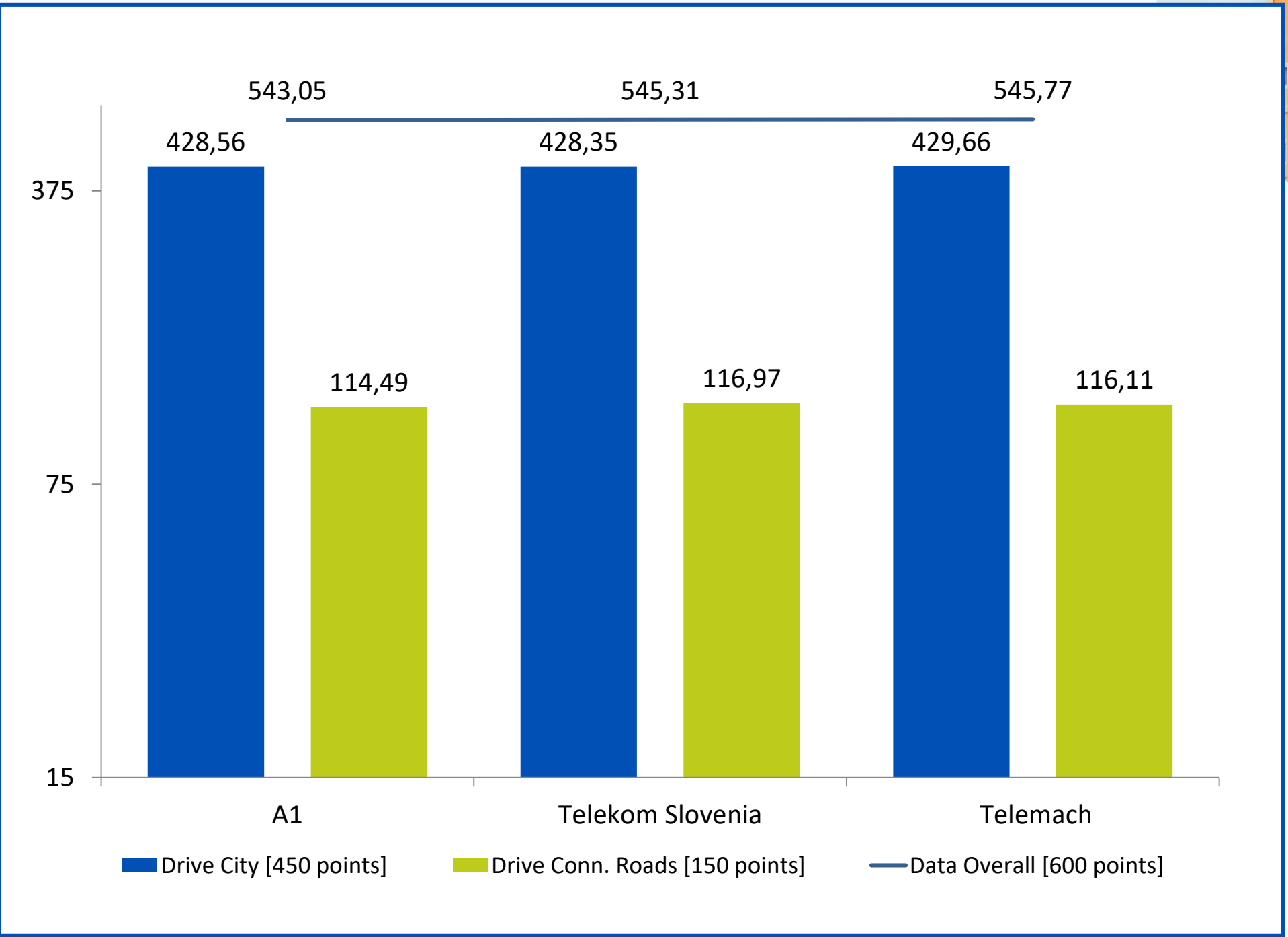
In overall ranking results A1 is the first ranked. Telemach is on the second place, while Telekom Slovenia takes the third position



RANKING – VOICE SERVICE



RANKING – DATA SERVICE



DRIVE CITY & CONNECTING ROADS VOICE RESULTS



Ranking identifiers	A1	Telekom Slovenia	Telemach	A1	Telekom Slovenia	Telemach
CLASSIC CALLS		DRIVE CITY		DRIVE CONNECTING ROADS		
CALL SETUP SUCCESS RATIO	99,69%	98,28%	99,92%	97,58%	95,88%	96,13%
DROPPED CALL RATIO	0,00%	0,16%	0,00%	0,50%	1,26%	1,51%
AVG CALL SETUP TIME	3,59 [s]	3,84 [s]	4,18 [s]	3,81 [s]	4,01 [s]	4,62 [s]
CALL SETUP TIME > 15 s RATIO	0,00%	0,00%	0,08%	0,50%	0,51%	0,50%
POLQA < 1.6 RATIO	0,13%	0,14%	0,15%	0,57%	0,82%	0,87%
POLQA AVG MOS	4,54 [MOS]	4,52 [MOS]	4,43 [MOS]	4,43 [MOS]	4,35 [MOS]	4,28 [MOS]
WHATSAPP CALLS						
CALL SETUP SUCCESS RATIO	99,66%	100,00%	99,66%	94,12%	94,95%	96,97%
DROPPED CALL RATIO	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
POLQA < 1.6 RATIO	0,86%	0,38%	0,17%	1,04%	0,53%	1,43%
POLQA AVG MOS	4,47 [MOS]	4,42 [MOS]	4,50 [MOS]	4,47 [MOS]	4,45 [MOS]	4,45 [MOS]

DRIVE CITY & CONNECTING ROADS DATA RESULTS



Ranking identifiers	A1	Telekom Slovenia	Telemach	A1	Telekom Slovenia	Telemach
HTTP TRANSFER - FDFS DL	DRIVE CITY			DRIVE CONNECTING ROADS		
HTTP TRANSFER FDFS DL SUCCESS RATIO	99,87%	99,66%	99,93%	97,64%	97,45%	97,00%
HTTP TRANSFER - FDFS UL						
HTTP TRANSFER FDFS UL SUCCESS RATIO	99,53%	99,80%	99,87%	94,64%	95,11%	94,86%
HTTP TRANSFER - FDTT DL						
HTTP TRANSFER FDTT DL MDR P10	26,12 [Mbit/s]	30,12 [Mbit/s]	51,78 [Mbit/s]	18,29 [Mbit/s]	17,84 [Mbit/s]	24,82 [Mbit/s]
HTTP TRANSFER FDTT DL MDR AVG	130,42 [Mbit/s]	130,29 [Mbit/s]	400,71 [Mbit/s]	87,23 [Mbit/s]	90,85 [Mbit/s]	176,37 [Mbit/s]
HTTP TRANSFER - FDTT UL						
HTTP TRANSFER FDTT UL MDR P10	11,79 [Mbit/s]	12,70 [Mbit/s]	17,42 [Mbit/s]	4,07 [Mbit/s]	5,04 [Mbit/s]	5,93 [Mbit/s]
HTTP TRANSFER FDTT UL MDR AVG	43,11 [Mbit/s]	44,41 [Mbit/s]	61,58 [Mbit/s]	31,15 [Mbit/s]	30,61 [Mbit/s]	33,89 [Mbit/s]
HTTP BROWSING						
HTTP BROWSING SUCCESS RATIO	99,71%	99,80%	99,92%	97,19%	97,07%	97,44%
VIDEO STREAM						
VIDEO STREAM SUCCESS RATIO	99,73%	99,46%	98,49%	96,61%	97,05%	95,56%
VIDEO STREAM VMOS AVG	4,38 [MOS]	4,37 [MOS]	4,40 [MOS]	4,36 [MOS]	4,35 [MOS]	4,36 [MOS]
VIDEO STREAM TTFP AVG	1,01 [s]	1,04 [s]	0,97 [s]	1,03 [s]	1,05 [s]	1,08 [s]
VIDEO STREAM TTFP >= 10 s RATIO	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
VIDEO STREAM IRRITATING EXPERIENCE RATIO	0,74%	1,44%	0,60%	1,32%	1,74%	1,77%
FACEBOOK - FDFS UL						
FACEBOOK FDFS UL SUCCESS RATIO	99,80%	99,93%	99,94%	98,10%	99,37%	98,33%
FACEBOOK FDFS UL TRANSFER TIME AVG	4,73 [s]	4,76 [s]	4,71 [s]	5,27 [s]	5,27 [s]	5,37 [s]

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