



5G MEASUREMENTS IN MACEDONIA

International Regulatory Conference 2023

5G TECHNOLOGY IN MACEDONIA

5G (DSS)
2022

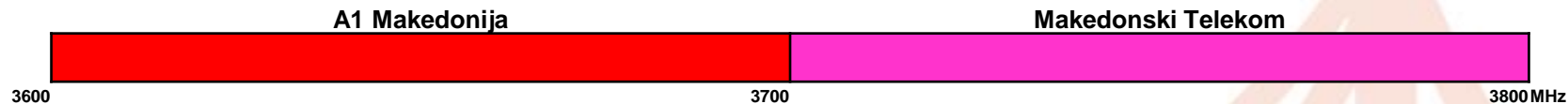
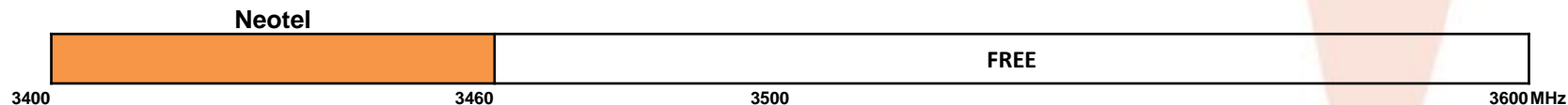
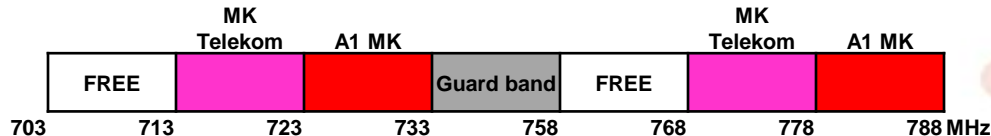
- existing LTE radiofrequency bands

5G (NSA)
2023


- additional radiofrequency spectrum

5G LICENSES

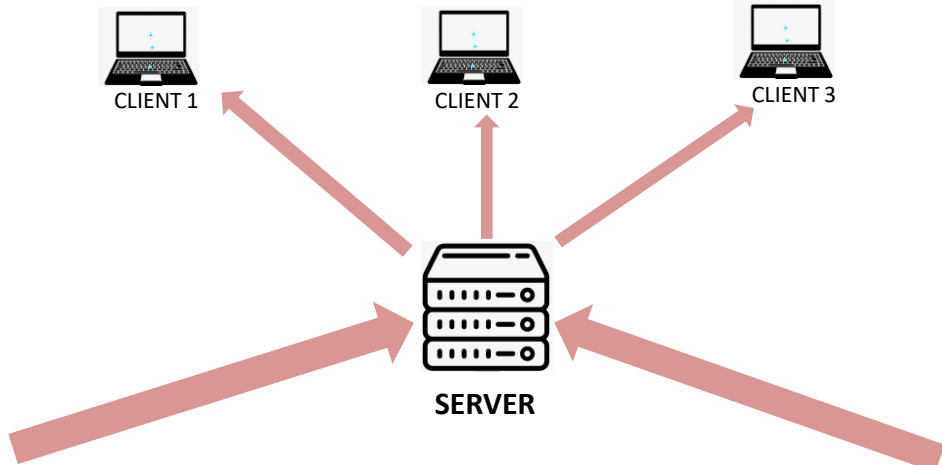
- Tender process successfully ended
- 5 Licenses issued by AEC on 11/07/2022
 - 2 Licenses in 700 MHz band
 - 3 Licenses in 3.6 GHz band (1 is for FWA)



5G OBLIGATIONS

1. By the end of 2023 to cover one city
 2. By the end of 2025 to cover all transport corridors
 3. By the end of 2027 to cover all cities in the country
 4. By the end of 2029 all customers to have internet access of at least 100 Mbps
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AEC DRIVETEST MEASUREMENTS SYSTEM



AEC DRIVETEST MEASUREMENT EQUIPMENT



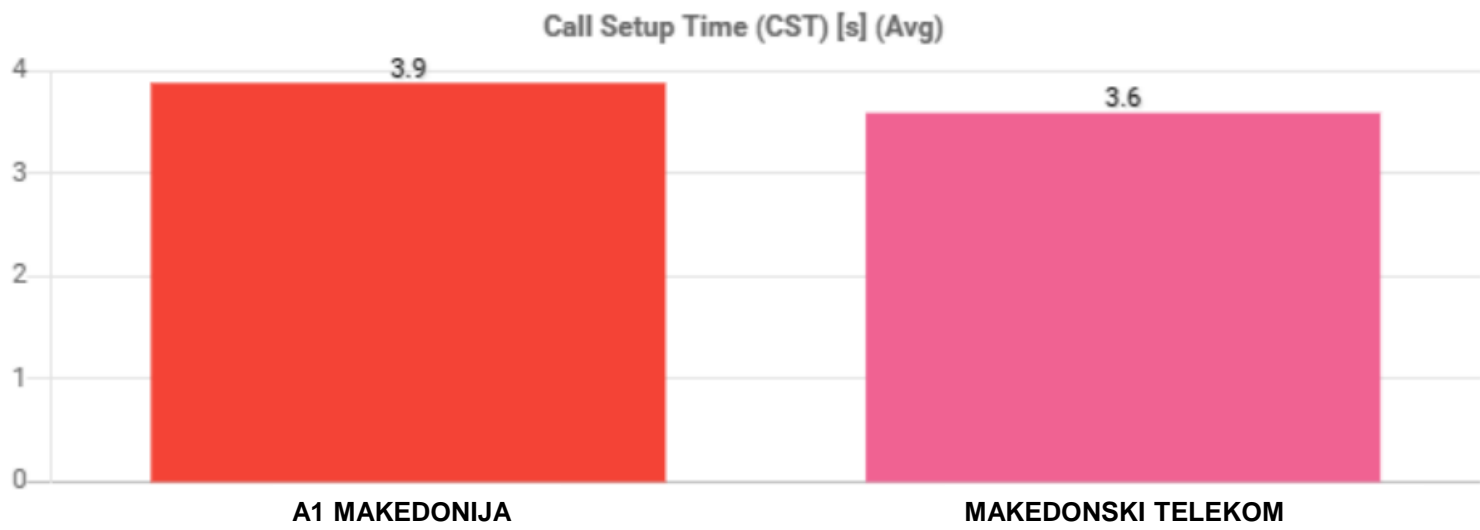
- **Voice / data service**
Samsung S22
- **Coverage performance**
R&S scanner

DRIVE TEST MEASUREMENTS

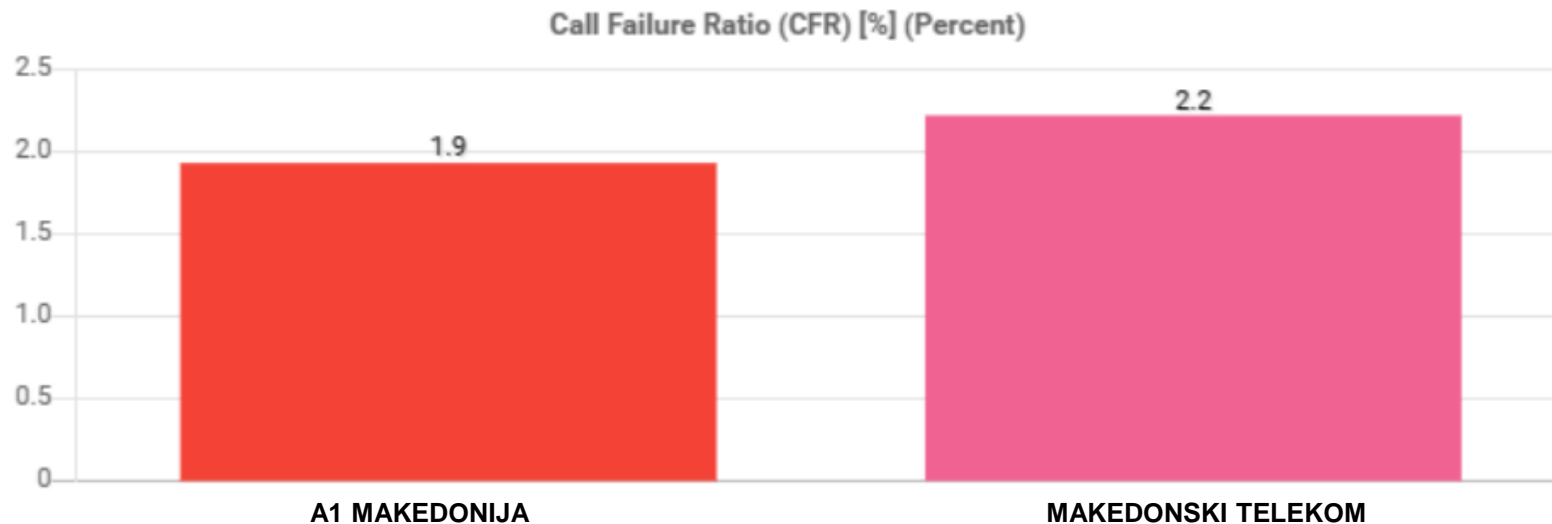
5G MEASUREMENTS IN MACEDONIA

- 1 **15th of May, 2023 - 19th of May,2023**
- 2 **City of Skopje**
- 3 **Voice Calls**
2 275 A1 MAKEDONIJA
2 162 MAKEDONSKI TELEKOM
- 4 **Data Sessions**
2900 A1 MAKEDONIJA, MAKEDONSKI TELEKOM

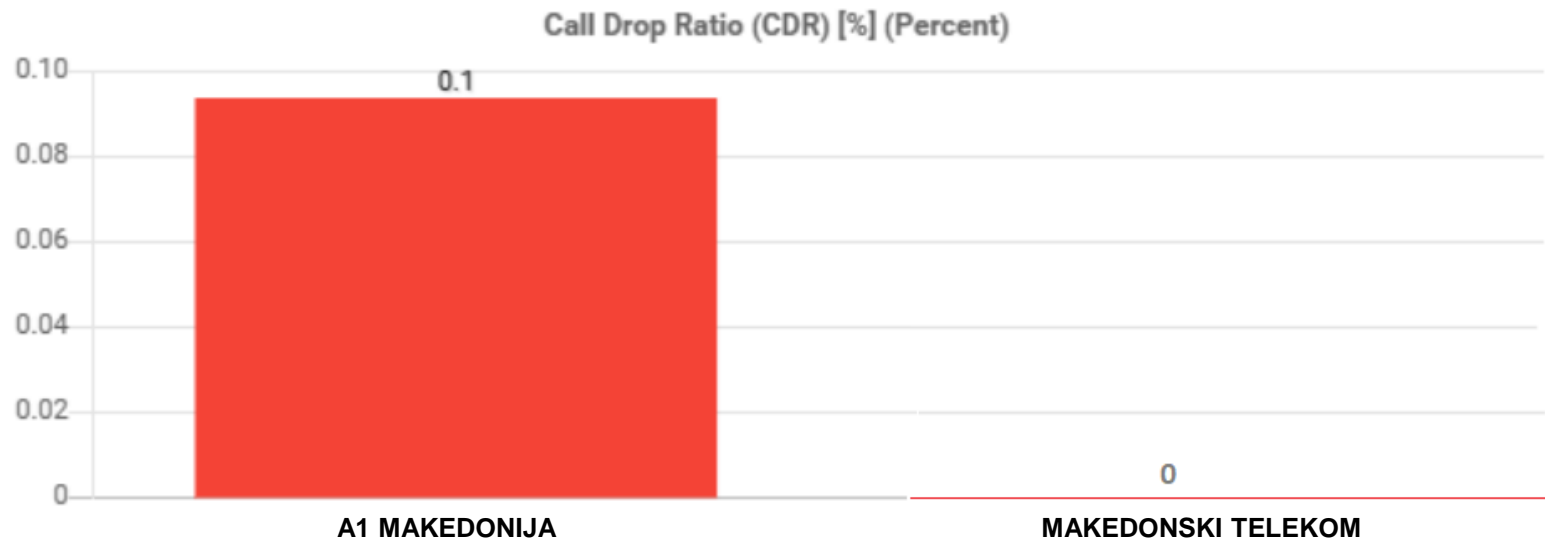
VOICE SERVICE



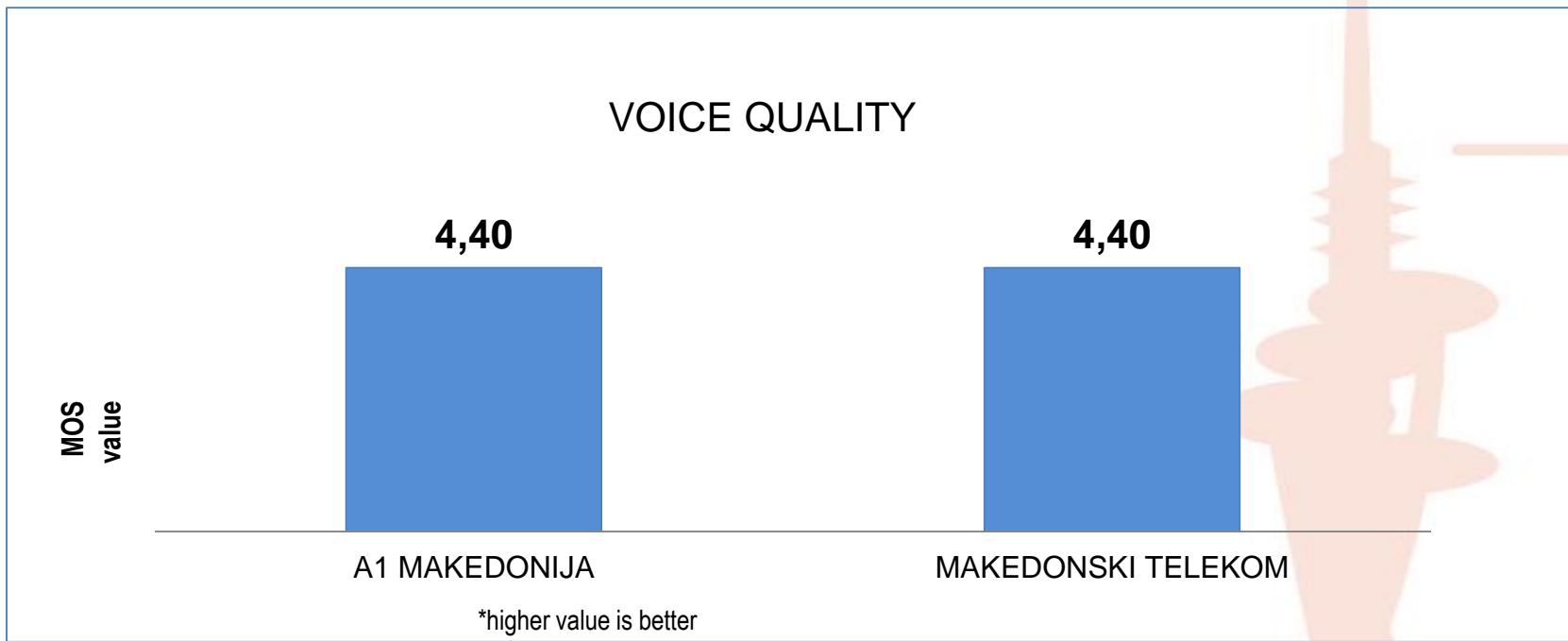
VOICE SERVICE



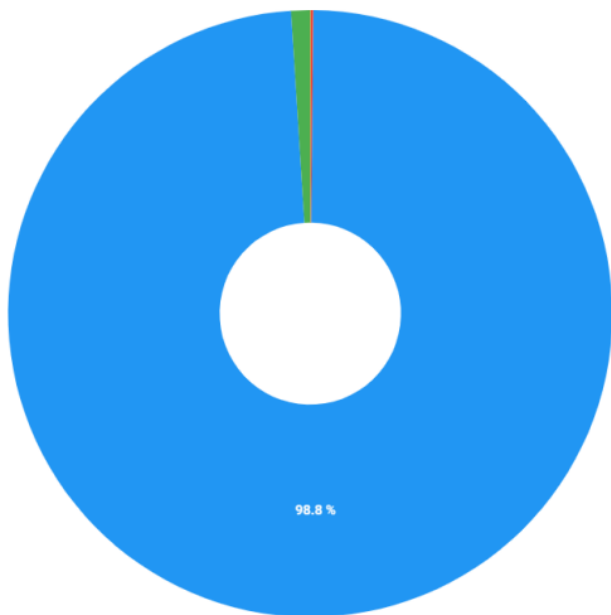
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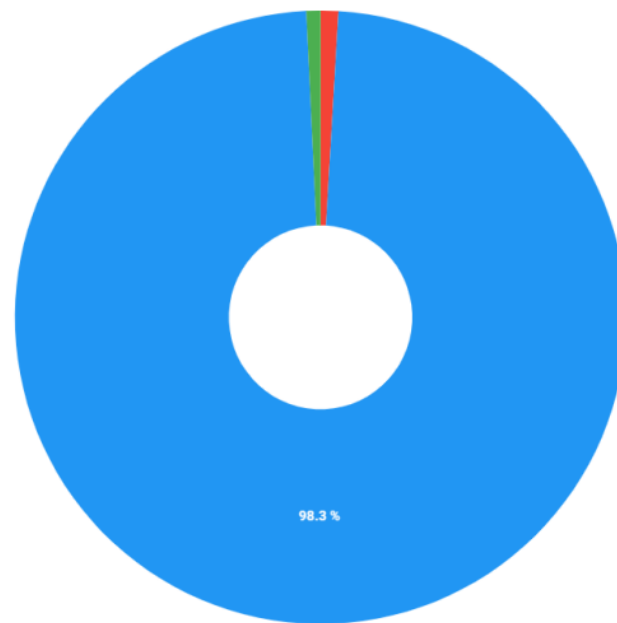
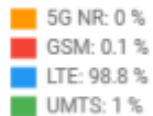
VOICE SERVICE



Radio Technologies by Voice



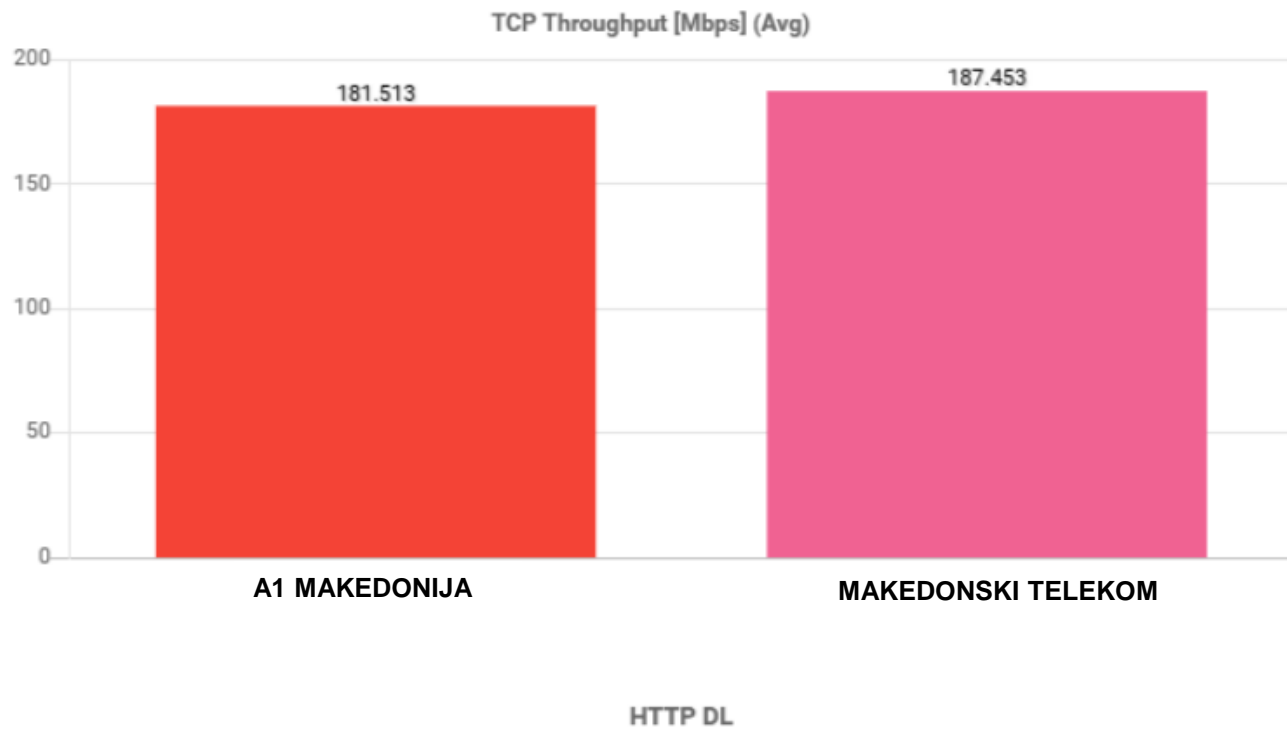
A1 MAKEDONIJA



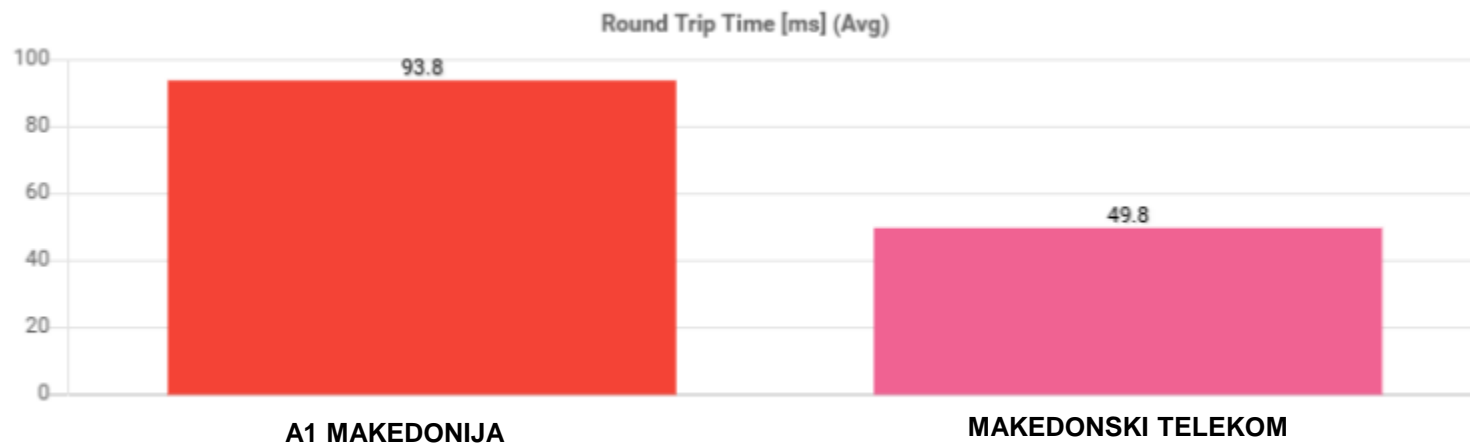
MAKEDONSKI TELEKOM



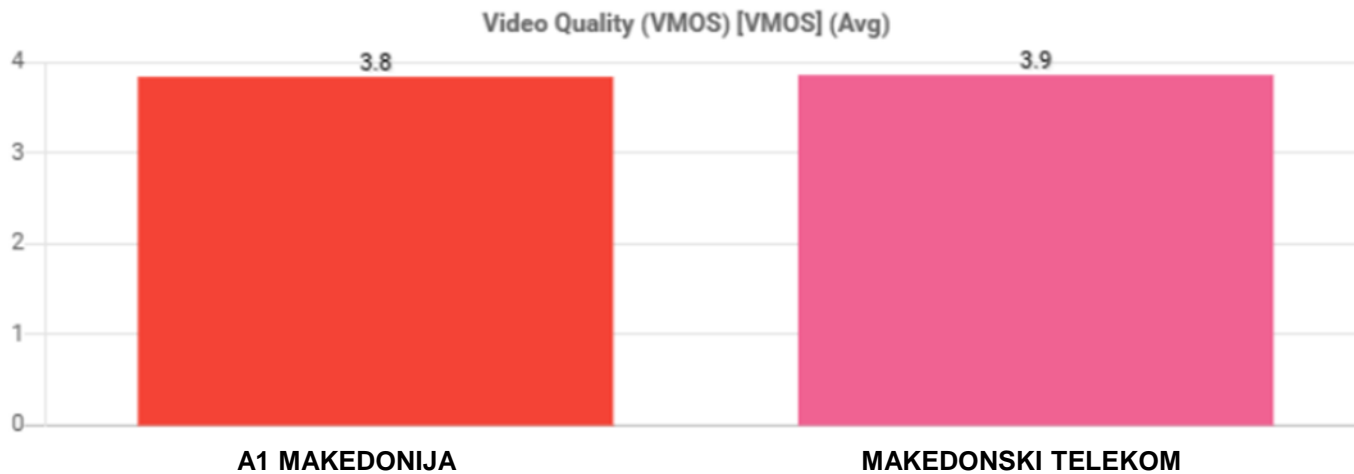
DATA SERVICE



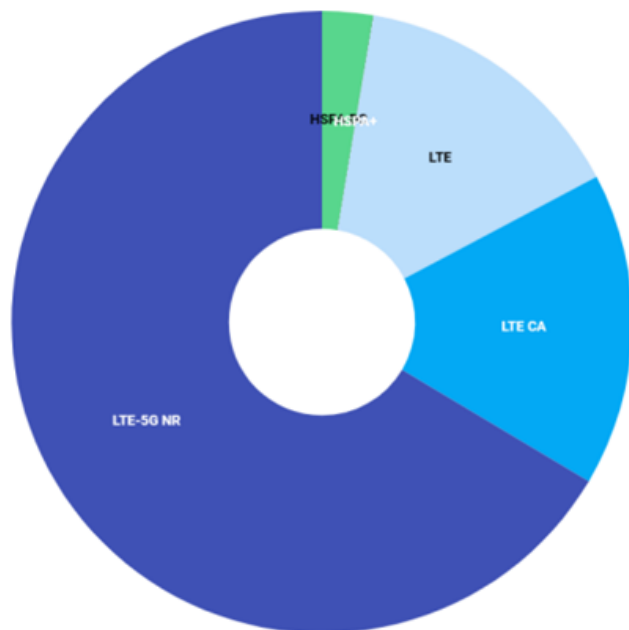
DATA SERVICE



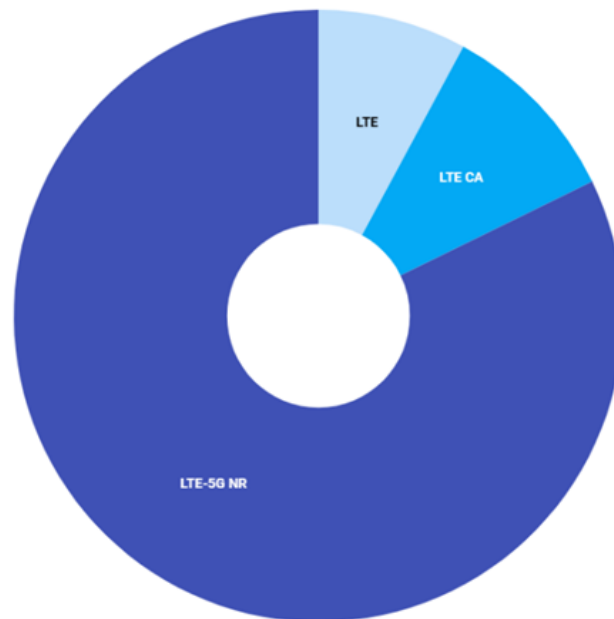
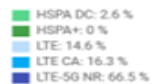
YOUTUBE



Radio Technologies by Data



A1 MAKEDONIJA



MAKEDONSKI TELEKOM



5G

Will it be successful technology?



THANK YOU for your attention!

