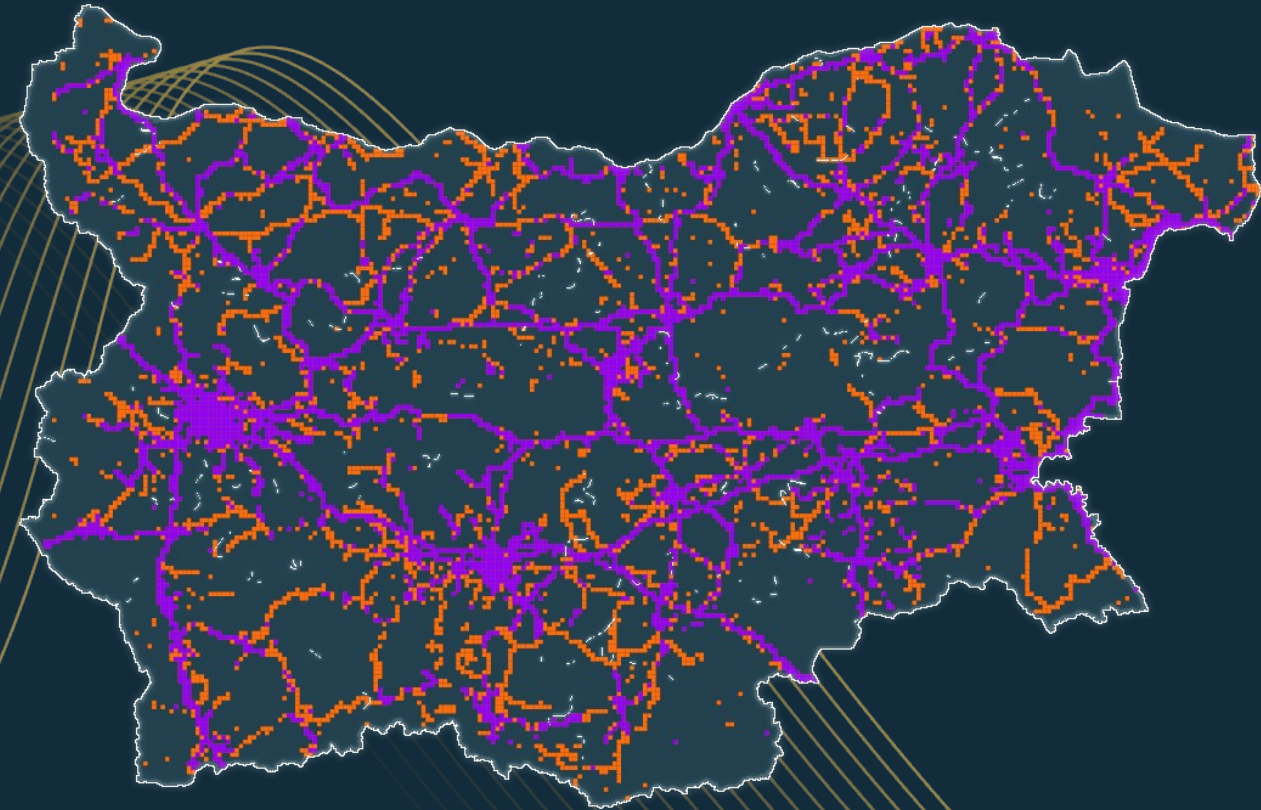
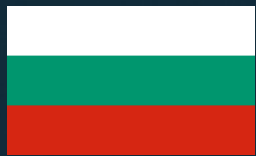




Barometer of mobile coverage in Bulgaria

4G/5G

09/01/2025 - 08/31/2026



Agenda

1

Introducing
nPerf

2

Methodology

3

Executive
Summary 4G

4

National
Coverage 4G

5

Executive
Summary 5G

6

National
Coverage 5G

7

Regional
Results 4G

8

Regional
Results 5G

1. Introducing nPerf



An independent authority in network performance

nPerf is an independent French Internet performance measurement platform, powered by real user experience. By turning millions of individual measurements into connectivity insights, nPerf helps operators enhance their networks and contributes to building a faster, more reliable Internet for everyone.

 **300k+** tests daily worldwide.

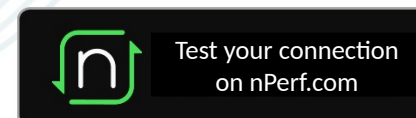
 **26Md+** coverage scans in total.

 **3k+** servers all around the world.

A comprehensive suite of tools to measure real-world connectivity

nPerf provides a complete ecosystem of complete measurement tools designed to capture the true quality of fixed, mobile, and Wi-Fi connections with precision, reaching speeds of up to 10 Gbps.

Users test. Operators learn. Everyone benefits.



2. Methodology (1/2) — Measuring coverage in the field



A field study, not a simulation

Mobile operators publish coverage maps computed from radio-propagation models. This barometer contains no modelling: every figure comes from measurements recorded in the field by real users, in real conditions of use — outdoors, indoors, in a car or on a train. It complements the operators' theoretical maps; it does not replace them.

A crowdsourced panel

Measurements are collected by the nPerf mobile application, on Android only: Apple does not open the signal-strength APIs to developers. The application records the signal level reported by the handset every time the device's position is requested by the operating system or by another installed application — maps, navigation, games — and throughout the active mapping sessions users can start themselves. Each record is time-stamped and geolocated to within 20 metres. Anyone can join the panel simply by installing the nPerf app.

Which measurements are kept

- Each measurement is attributed to the network that actually serves the handset, identified by its MCC/MNC codes.
- Measurements reporting no signal at all are kept — the absence of coverage is a result in its own right.
- A country is published only when the volume of measurements and the share of its inhabited territory actually surveyed are sufficient.

Which ISPs are kept

- Only ISPs operating their own network are included; MVNOs are excluded.
- An ISP is published only when its share of measurements is sufficient to be reliably represented in this report.

2. Methodology (2/2) — From measurements to a coverage rate



A grid of parcels

The territory is divided into a regular grid. Each parcel is roughly 400 to 600 m on a side depending on latitude — about 425 m at the latitude of France. A parcel is taken into account for an operator as soon as one of that operator's users has recorded at least one measurement inside it, with or without signal.

Each operator is measured on its own customers' data

This is the cornerstone of the method: an operator's coverage rate is computed from **the measurements collected by its own subscribers, not from those of all operators combined**. The reference perimeter — the denominator of the rate — is therefore specific to each operator: it consists of the parcels its own customers actually visited. Every operator is assessed precisely where its own customer base lives, works and travels.

Technologies are nested

A parcel counts as covered by a technology as soon as at least one measurement of that technology — or of a higher generation — was recorded in it. **3G coverage** is therefore the area where at least 3G is available, **4G coverage** the area where at least 4G is available, and **5G coverage** the area where 5G is available.

Three indicators

- **Geographical Coverage** — the share of the operator's reference parcels in which the technology was recorded. Every parcel carries the same weight, whatever its population.
- **In mobility Pop. Coverage** — the same parcels, each weighted by the number of distinct nPerf devices observed in it. The weighting reflects where users actually are, rather than the number of inhabitants declared per municipality: busy roads and city centres therefore weigh more than sparsely travelled areas.
- **nPerf Coverage Score** — the average of the two indicators above, in equal parts. The higher the score, the better the coverage.

Regional results

Regional figures follow exactly the same method, restricted to the parcels located inside each region's official administrative boundaries.

Reading the 5G figures

All the frequency bands used by each operator are taken into account. Low bands (700 MHz) reach further than mid (2,100 MHz) and high (3,500 MHz) bands but deliver lower speeds: coverage figures should be read alongside the speed results of the nPerf mobile barometer.

3. Executive Summary 4G



The subscribers of Yettel enjoyed the best 4G coverage in 2026 in Bulgaria.

Mobile coverage rate in Bulgaria			
	A1	Vivacom	<u>Yettel</u>
Geographical Coverage Rate	94.81	92.36	94.80
Population Coverage Rate	97.71	96.95	98.24
nPerf Coverage Score	96.26	94.65	96.52

Source : nPerf.com

Yettel.

Best Mobile coverage in Bulgaria

Source : nPerf.com

nPerf Podium

Source : nPerf.com

4. National 4G coverage maps

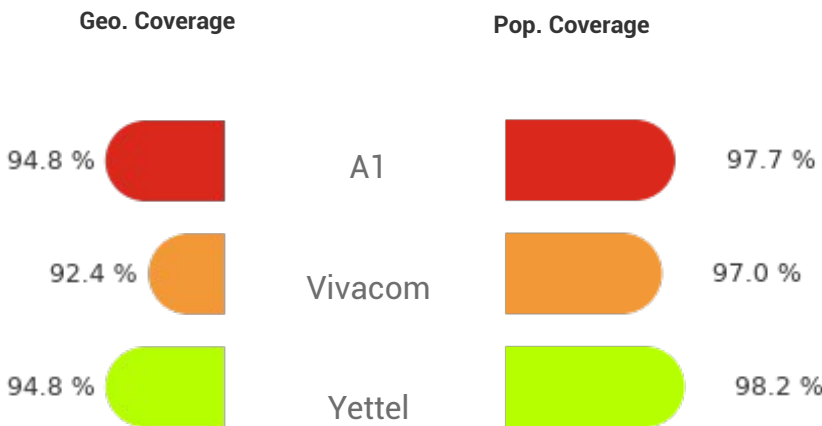


nPerf Coverage Score



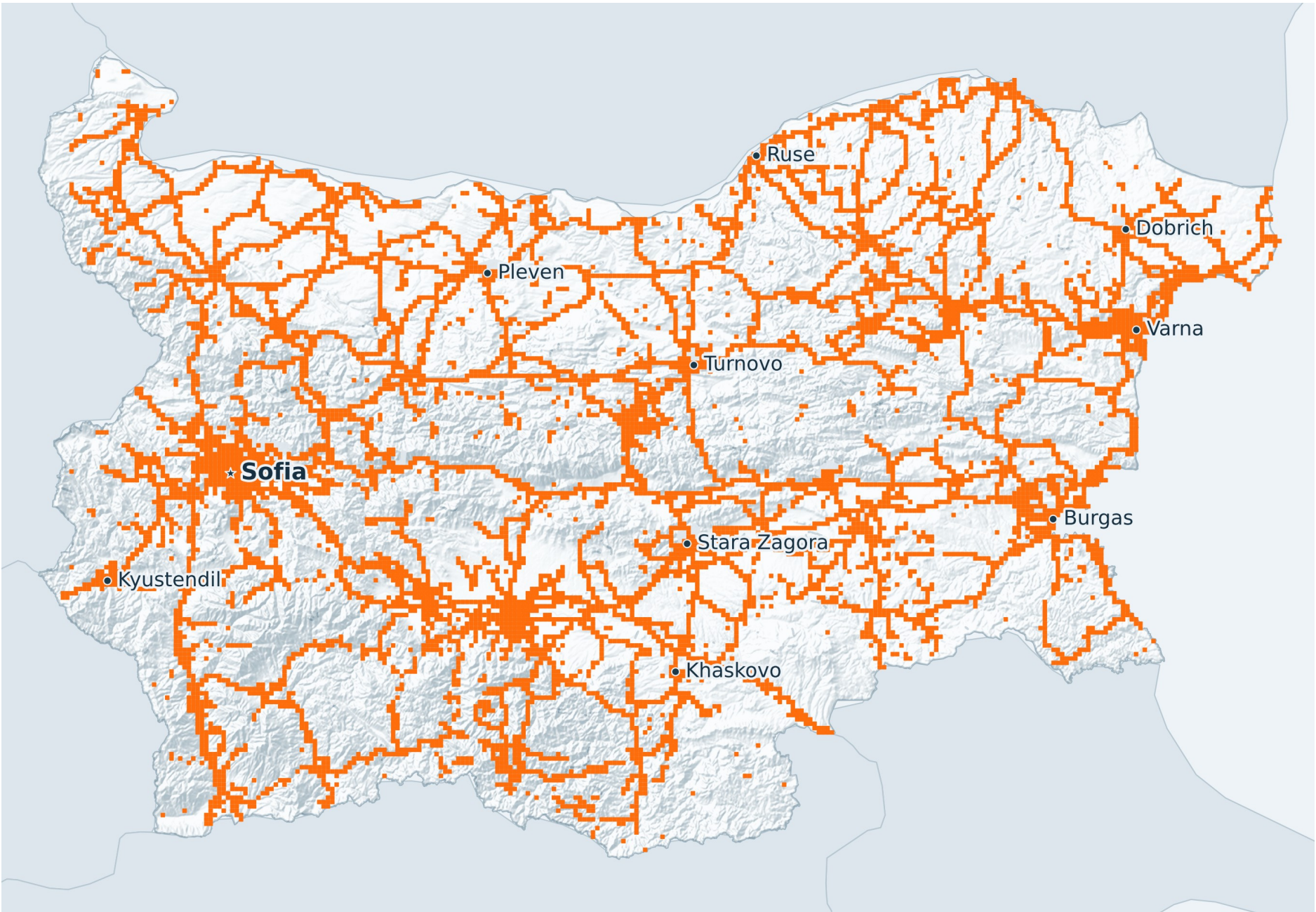
Source : nPerf.com

Coverage Indicators



Source : nPerf.com

National Coverage



National 4G coverage maps for A1

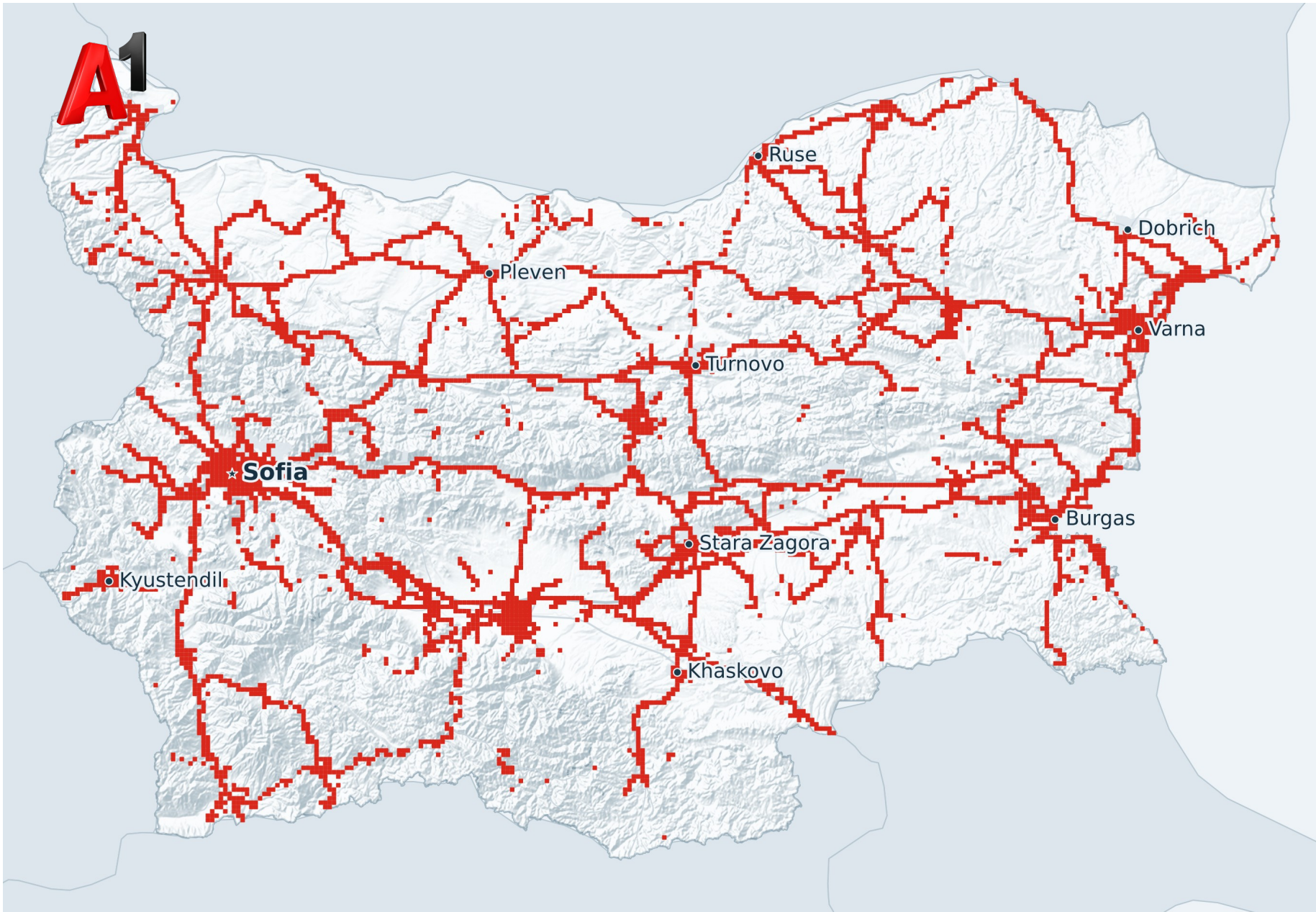


A1

Geographical Coverage Rate (%) 94.81

Population Coverage Rate (%) 97.71

nPerf Coverage Score (%) 96.26



National 4G coverage maps for Vivacom



Vivacom

Geographical Coverage Rate (%) 92.36

Population Coverage Rate (%) 96.95

nPerf Coverage Score (%) 94.65



National 4G coverage maps for Yettel

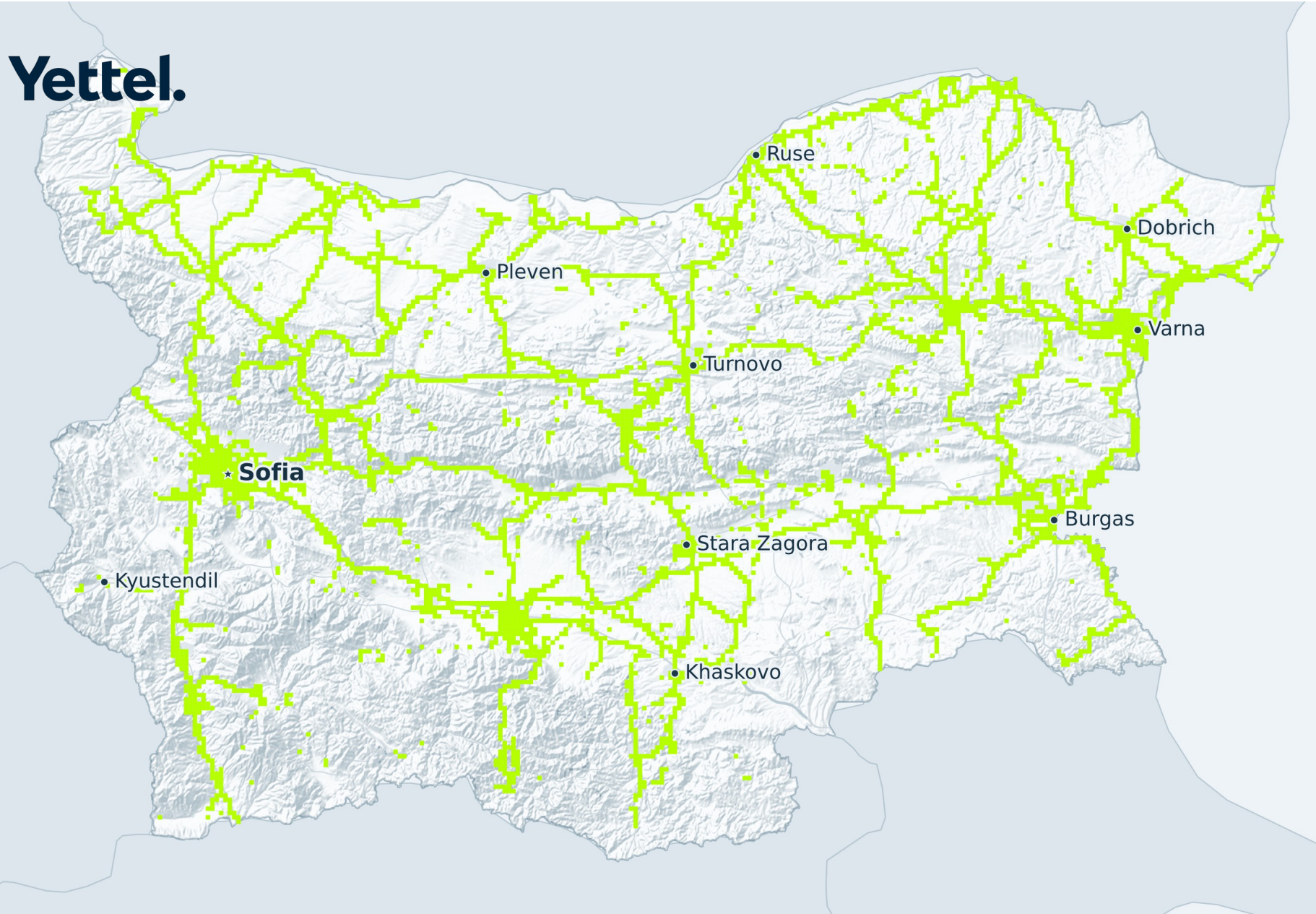


Yettel

Geographical Coverage Rate (%) 94.80

Population Coverage Rate (%) 98.24

nPerf Coverage Score (%) 96.52



5. Executive Summary 5G



The subscribers of A1 enjoyed the best 5G coverage in 2026 in Bulgaria.

Mobile coverage rate in Bulgaria			
	A1	Vivacom	Yettel
Geographical Coverage Rate	61.19	58.52	54.80
Population Coverage Rate	79.14	74.40	75.49
nPerf Coverage Score	70.17	66.46	65.15

Source : nPerf.com



Best Mobile coverage in Bulgaria



Source : nPerf.com

nPerf Podium



Source : nPerf.com

6. National 5G coverage maps

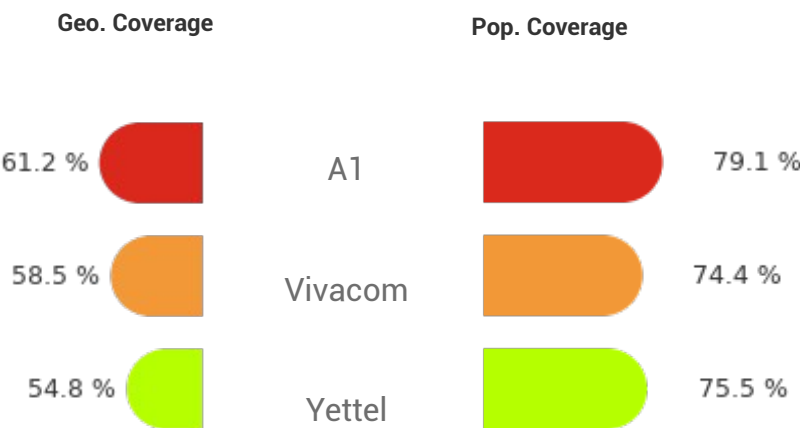


nPerf Coverage Score



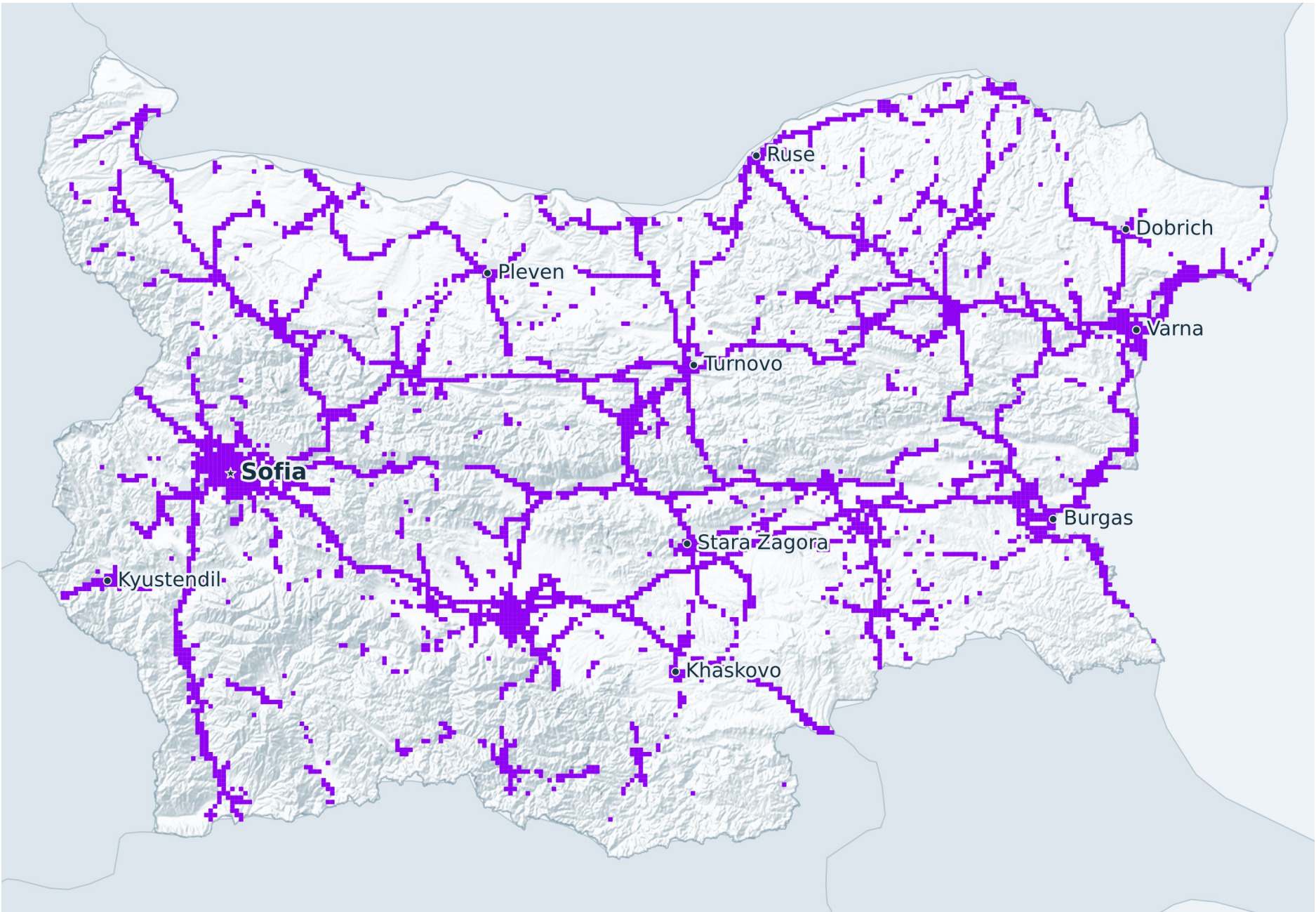
Source : nPerf.com

Coverage Indicators



Source : nPerf.com

National Coverage



National 5G coverage maps for A1

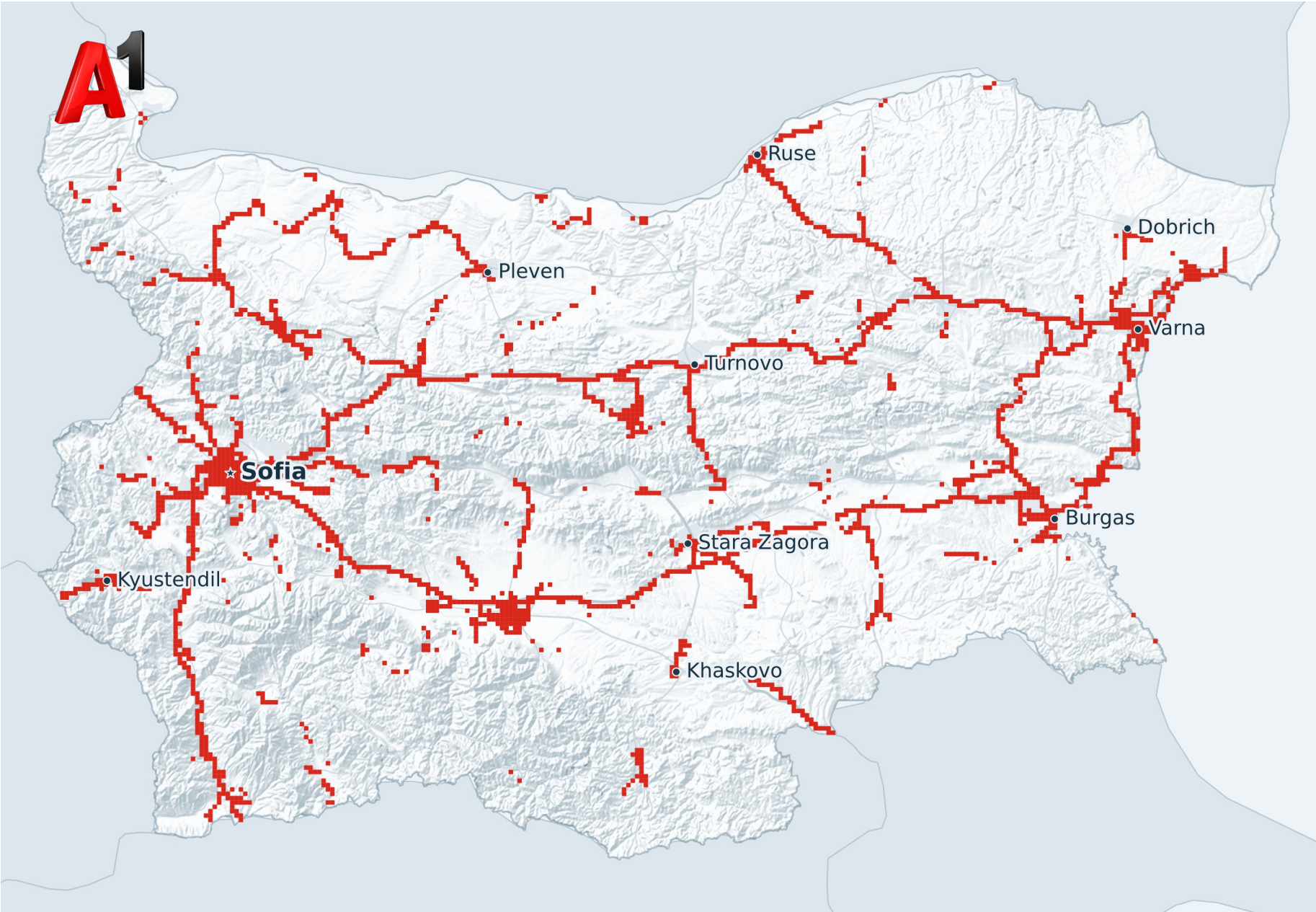


A1

Geographical Coverage Rate (%) 61.19

Population Coverage Rate (%) 79.14

nPerf Coverage Score (%) 70.17



National 5G coverage maps for Vivacom



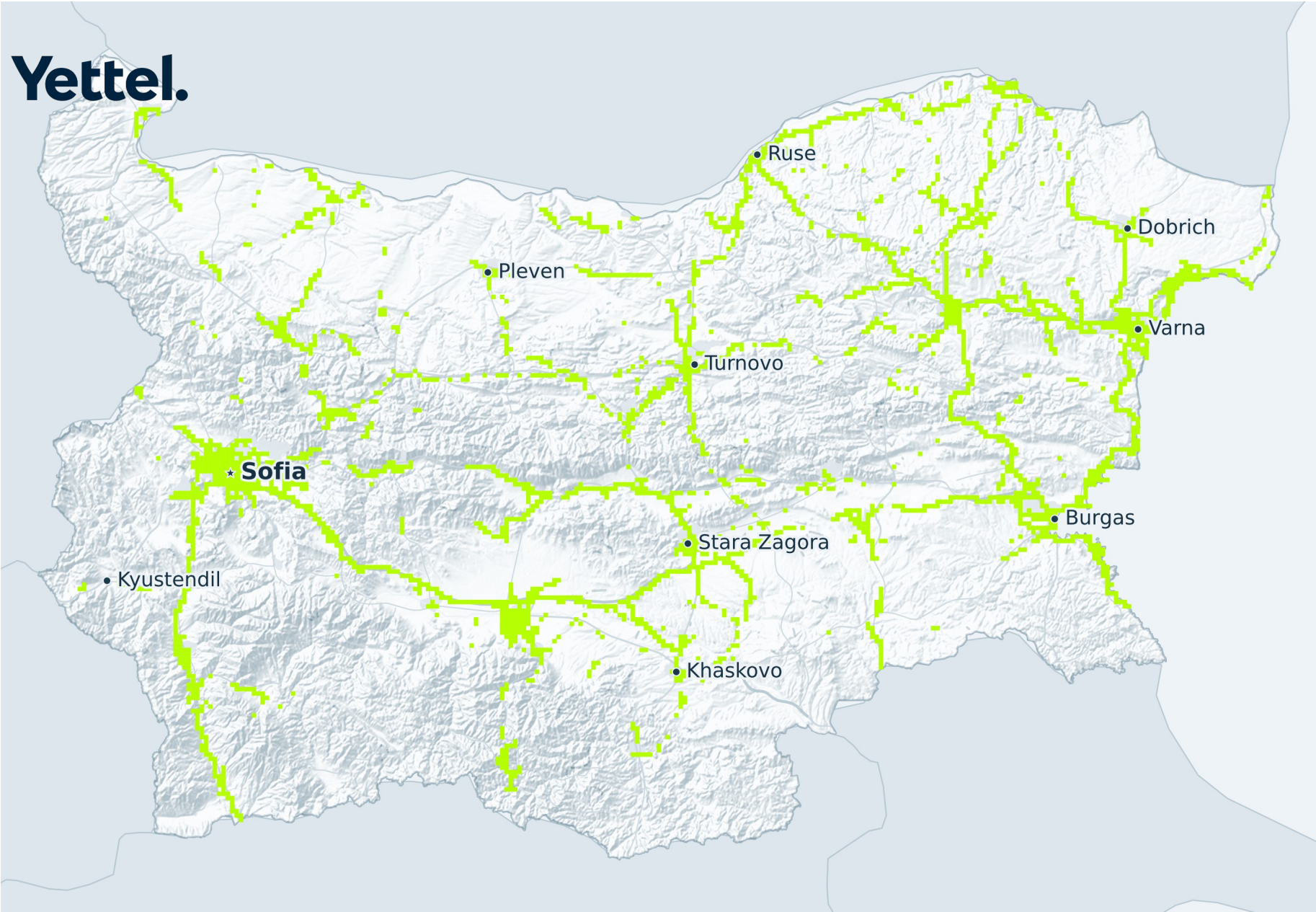
Vivacom

Geographical Coverage Rate (%)	58.52
Population Coverage Rate (%)	74.40
nPerf Coverage Score (%)	66.46



Yettel

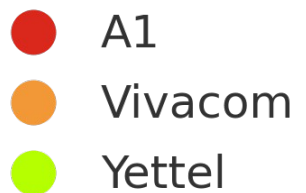
Geographical Coverage Rate (%)	54.80
Population Coverage Rate (%)	75.49
nPerf Coverage Score (%)	65.15



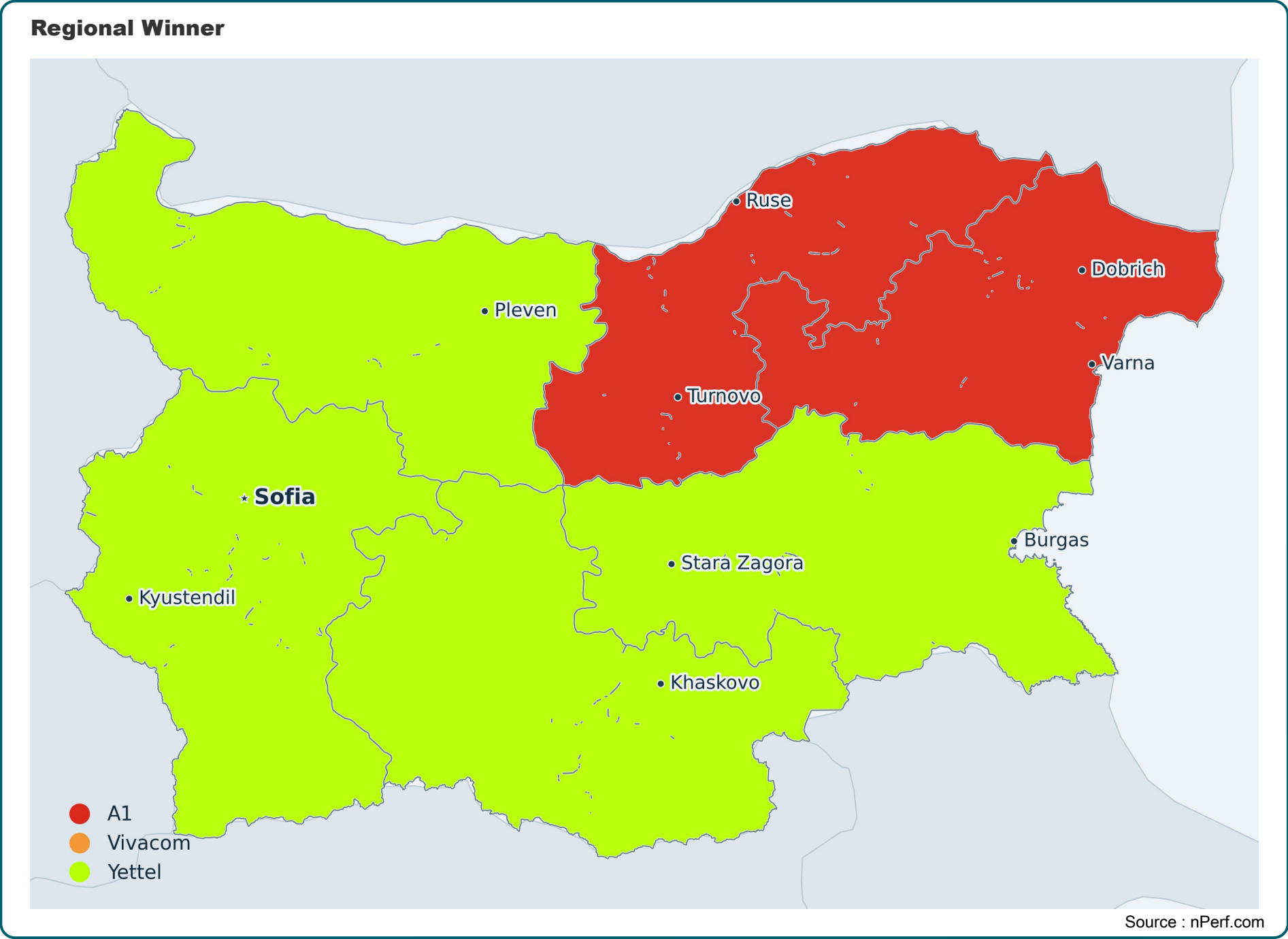
7. Regional 4G coverage: Methodology



Regions	Measurements	Device count	Measurements per operator
Yugozapaden	1 090 134	22 857	37% 29% 34%
Yugoiztochen	522 950	14 094	41% 38% 21%
Yuzhen tsentralen	459 287	12 500	43% 26% 31%
Severen tsentralen	413 592	8 577	33% 45% 22%
Severozapaden	393 388	8 939	30% 48% 22%
Severoiztochen	375 493	10 577	30% 46% 24%



Regional 4G coverage

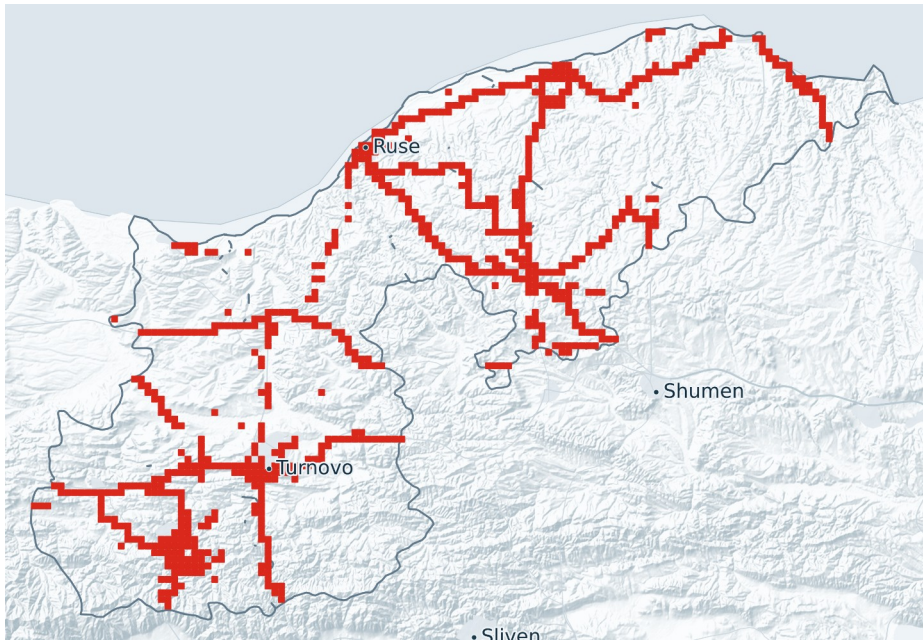


4G coverage — Severen tsentralen

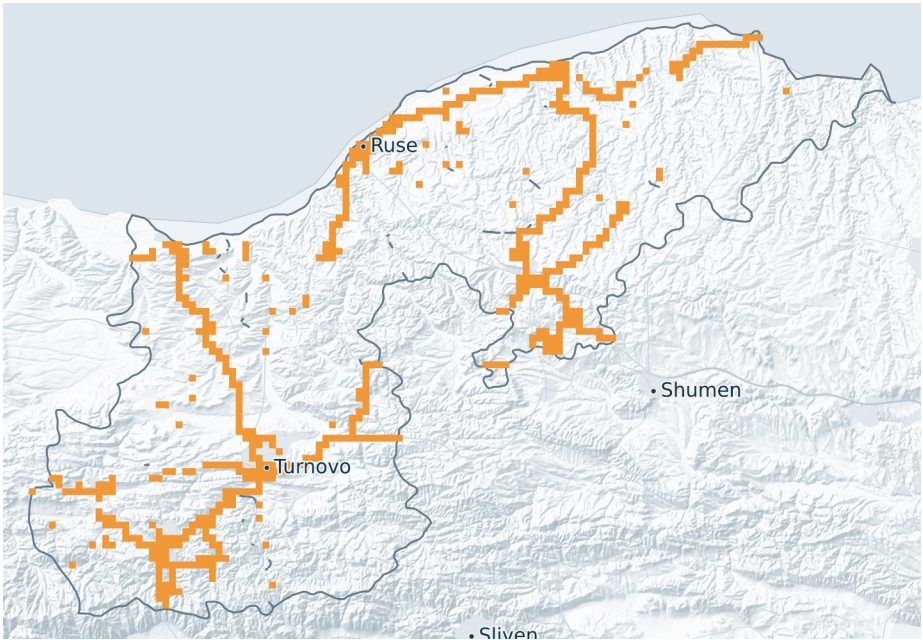


A1

- Geographical Coverage
95,57 %
- In mobility Pop. Coverage
98,28 %
- nPerf Coverage Score
96,93 %

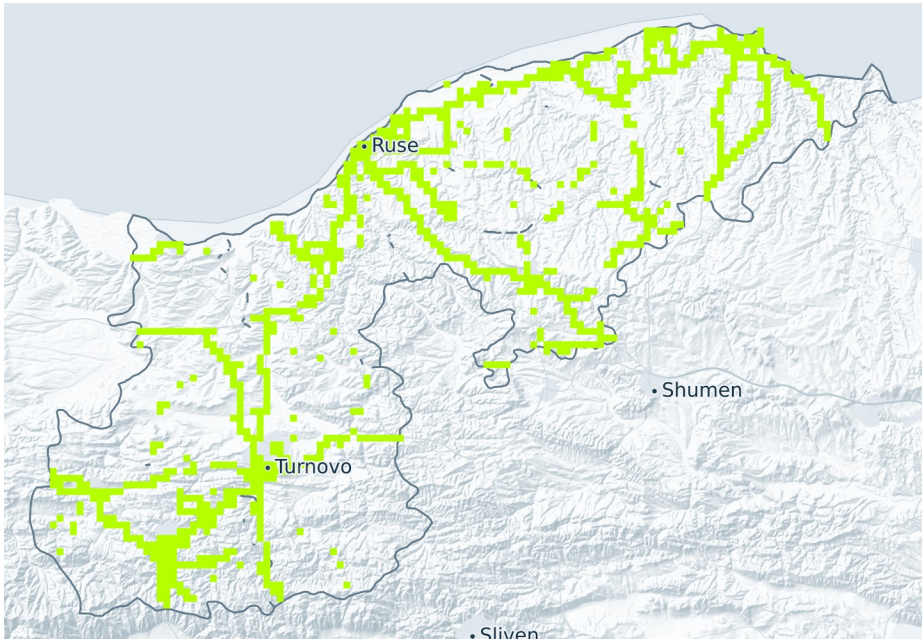


- Geographical Coverage
95,18 %
- In mobility Pop. Coverage
97,30 %
- nPerf Coverage Score
96,24 %



Yettel.

- Geographical Coverage
89,50 %
- In mobility Pop. Coverage
95,12 %
- nPerf Coverage Score
92,31 %



4G coverage — Severoiztochen



A1

Geographical Coverage

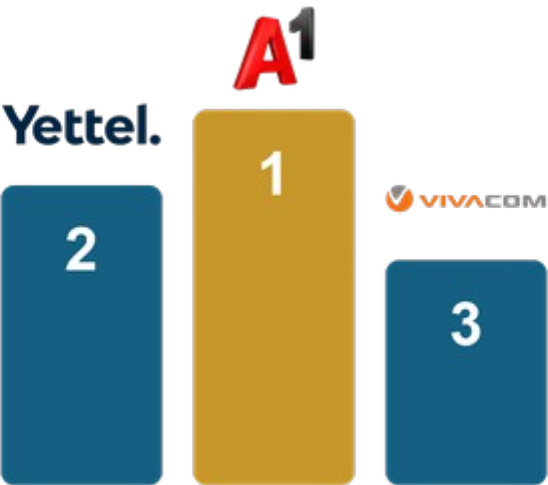
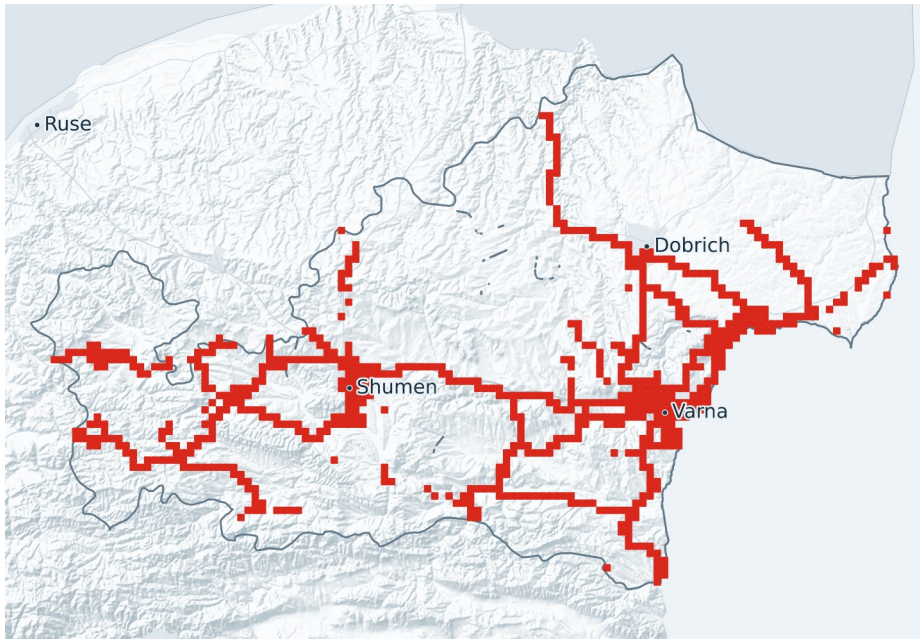
96,78 %

In mobility Pop. Coverage

98,56 %

nPerf Coverage Score

97,67 %



Geographical Coverage

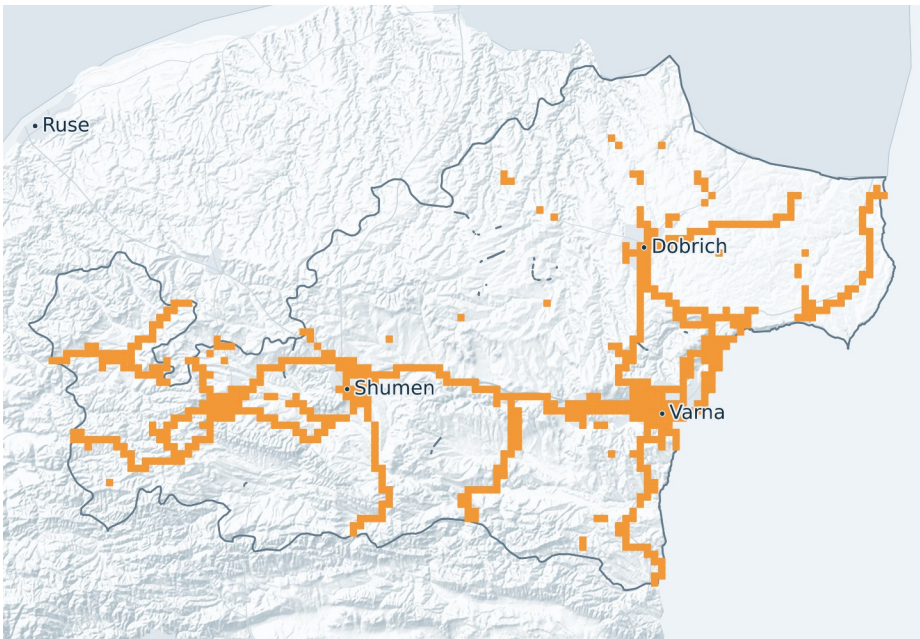
83,50 %

In mobility Pop. Coverage

91,68 %

nPerf Coverage Score

87,59 %



Yettel.

Geographical Coverage

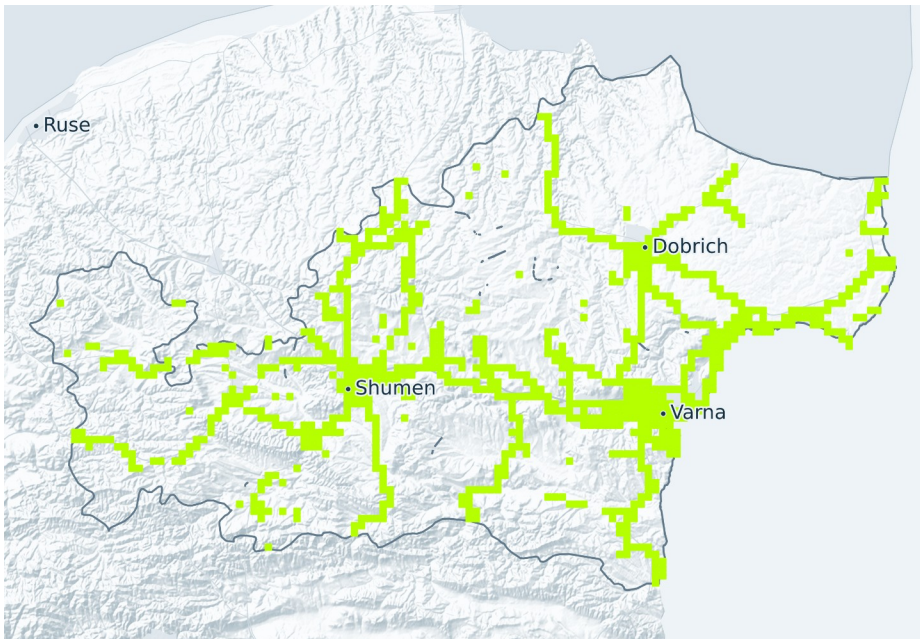
92,54 %

In mobility Pop. Coverage

96,90 %

nPerf Coverage Score

94,72 %



4G coverage — Severozapaden



A1

Geographical Coverage

92,86 %

In mobility Pop. Coverage

96,10 %

nPerf Coverage Score

94,48 %



Geographical Coverage

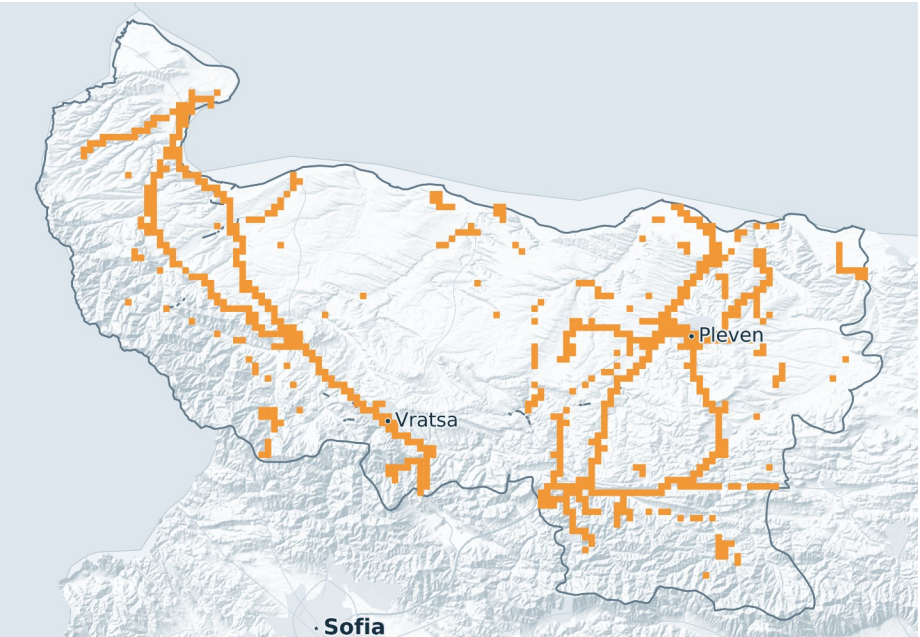
95,16 %

In mobility Pop. Coverage

96,97 %

nPerf Coverage Score

96,07 %



Yettel.

Geographical Coverage

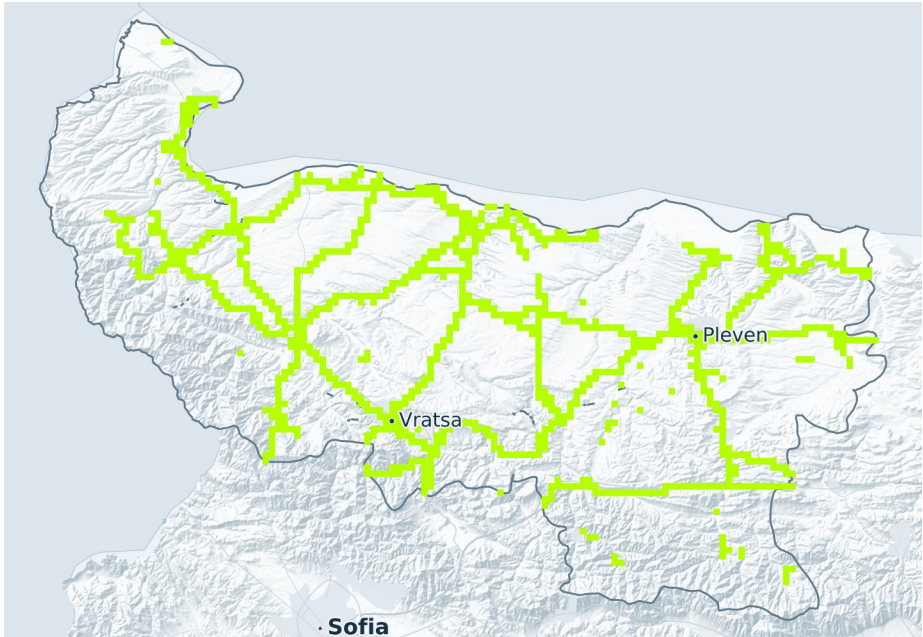
96,65 %

In mobility Pop. Coverage

98,32 %

nPerf Coverage Score

97,49 %

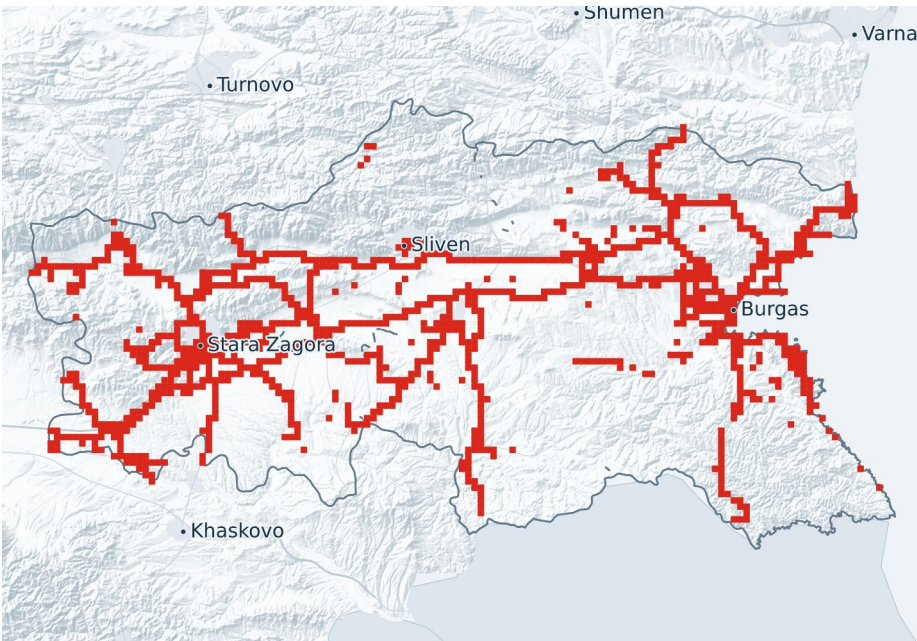


4G coverage — Yugoiztochen

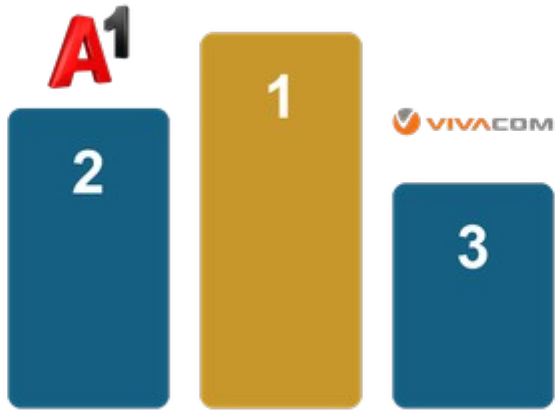


A1

Geographical Coverage
96,94 %
In mobility Pop. Coverage
98,71 %
nPerf Coverage Score
97,82 %

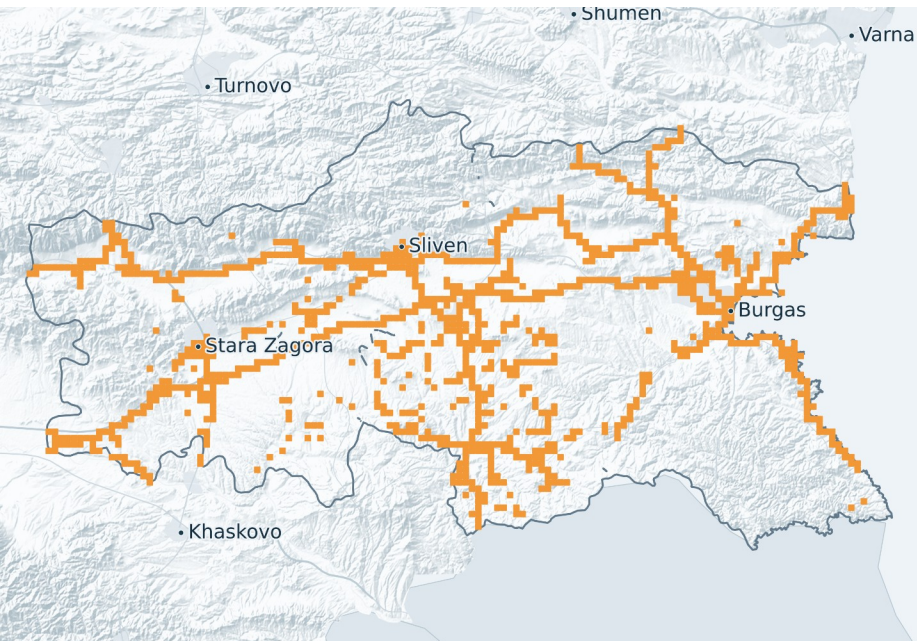


Yettel.

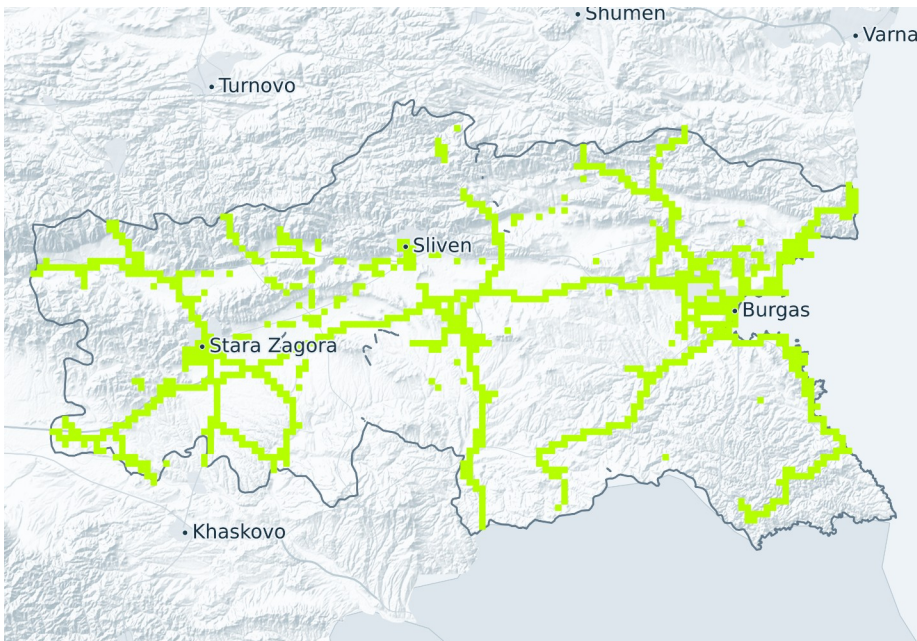


VIVACOM

Geographical Coverage
94,91 %
In mobility Pop. Coverage
98,03 %
nPerf Coverage Score
96,47 %



Yettel.



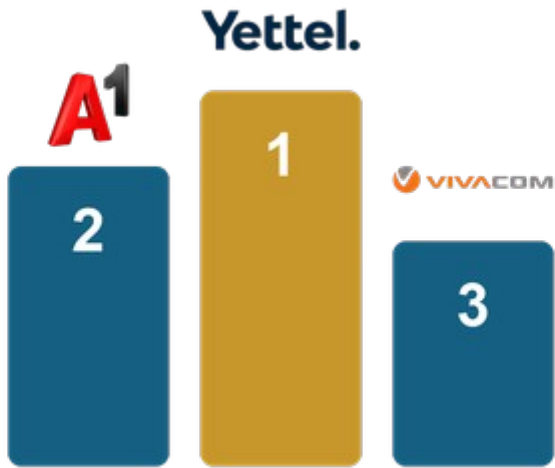
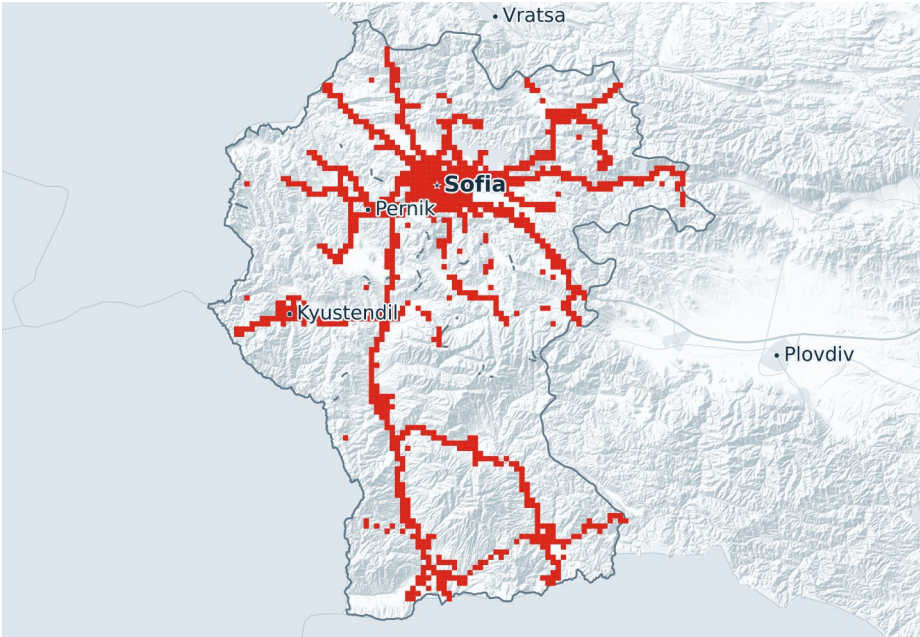
Geographical Coverage
97,72 %
In mobility Pop. Coverage
99,16 %
nPerf Coverage Score
98,44 %

4G coverage — Yugozapaden



A1

Geographical Coverage
95,32 %
In mobility Pop. Coverage
98,91 %
nPerf Coverage Score
97,12 %



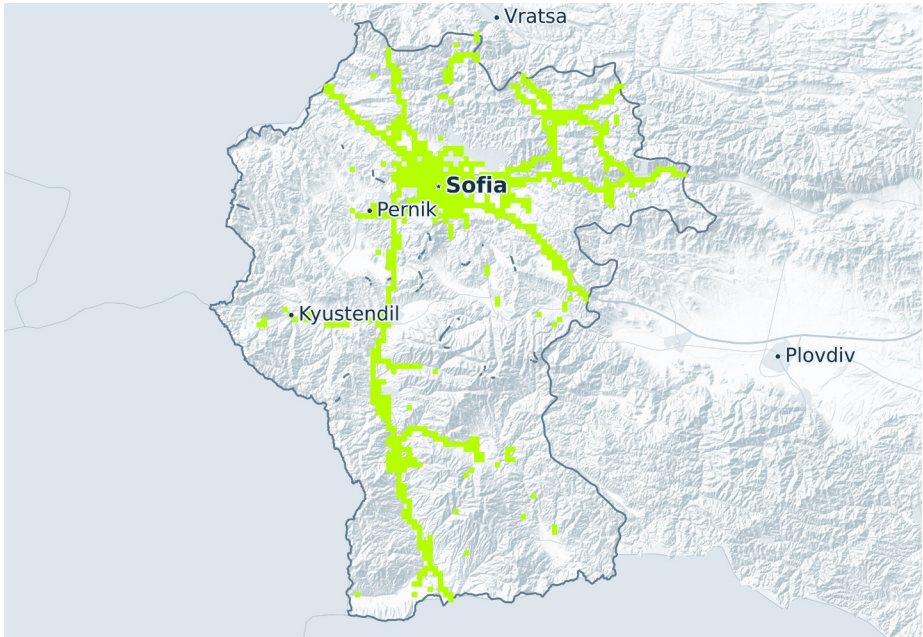
VIVACOM

Geographical Coverage
94,19 %
In mobility Pop. Coverage
98,74 %
nPerf Coverage Score
96,47 %



Yettel.

Geographical Coverage
96,21 %
In mobility Pop. Coverage
99,34 %
nPerf Coverage Score
97,77 %



4G coverage — Yuzhen tsentralen



A1

Geographical Coverage

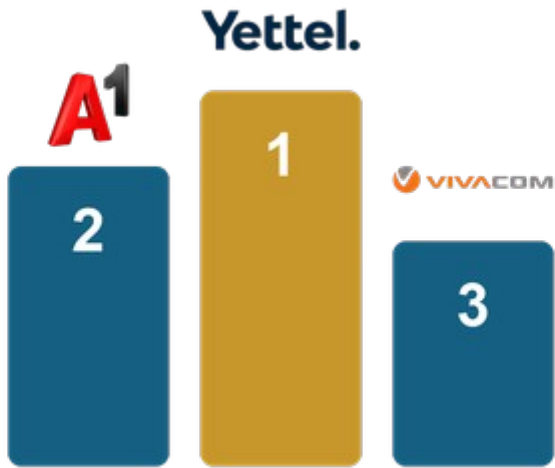
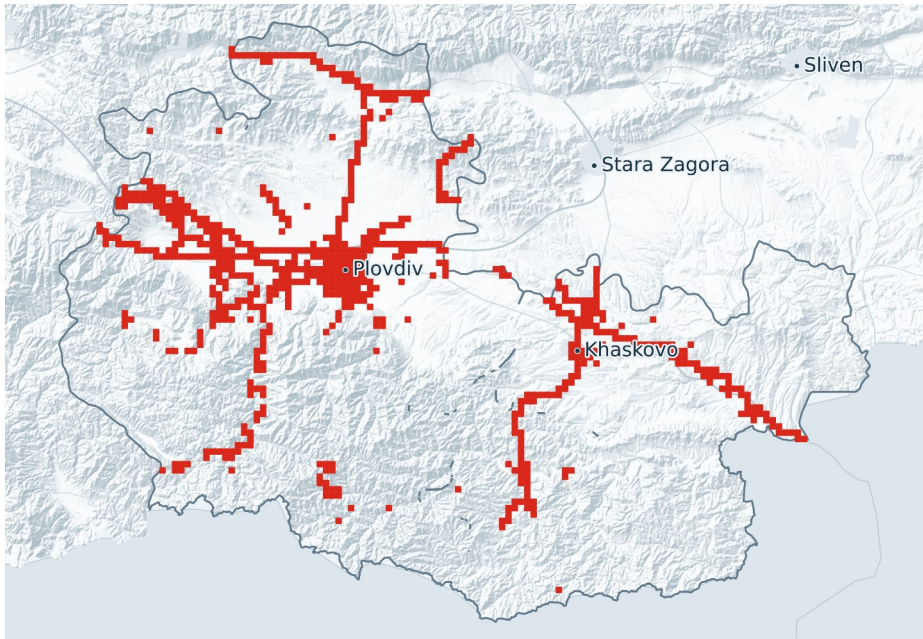
93,85 %

In mobility Pop. Coverage

97,64 %

nPerf Coverage Score

95,74 %



Geographical Coverage

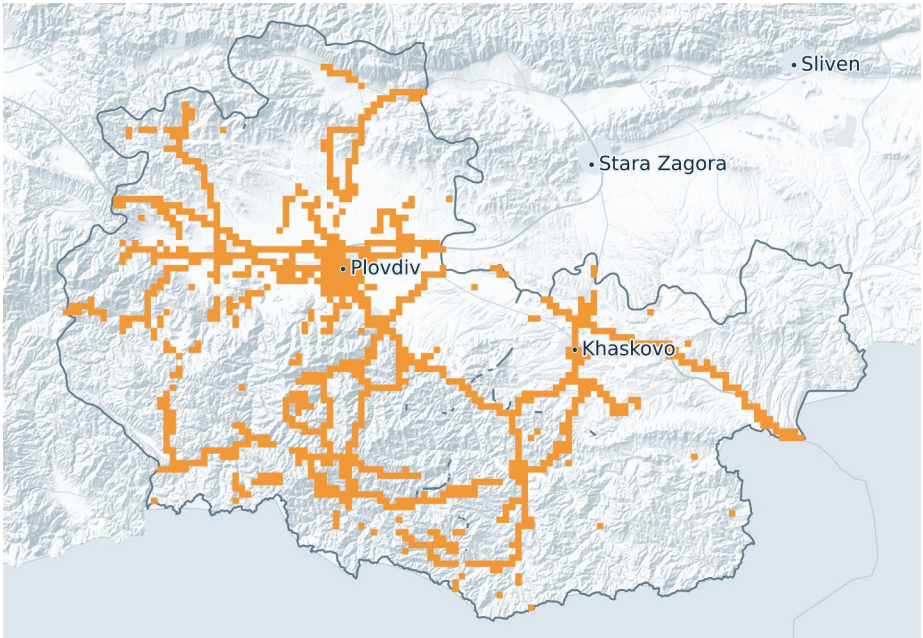
91,42 %

In mobility Pop. Coverage

96,97 %

nPerf Coverage Score

94,20 %



Yettel.

Geographical Coverage

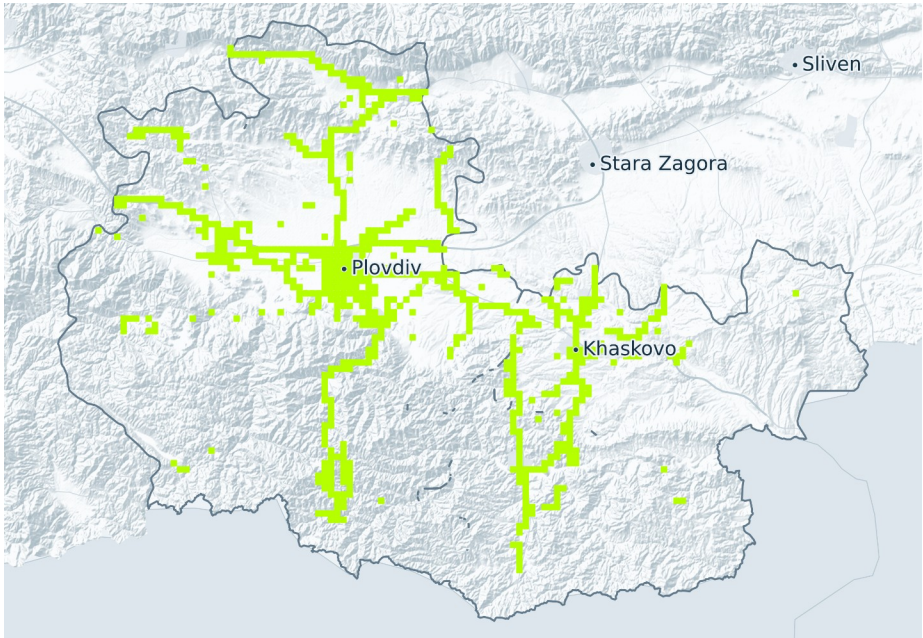
96,15 %

In mobility Pop. Coverage

98,70 %

nPerf Coverage Score

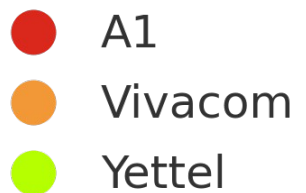
97,42 %



8. Regional 5G coverage: Methodology



Regions	Measurements	Device count	Measurements per operator		
Yugozapaden	375 768	15 772	37%	46%	17%
Yugoiztochen	162 197	9 397	44%	33%	23%
Severoiztochen	151 418	8 183	46%	30%	24%
Yuzhen tsentralen	142 828	6 641	36%	39%	25%
Severen tsentralen	124 592	6 023	54%	28%	18%
Severozapaden	82 508	4 362	28%	36%	36%



Regional 5G coverage



nPerf Coverage Score

Severen tsentralen

66.2 %

Severoiztochen

74.1 %

Severozapaden

56.6 %

Yugoiztochen

70.3 %

Yugozapaden

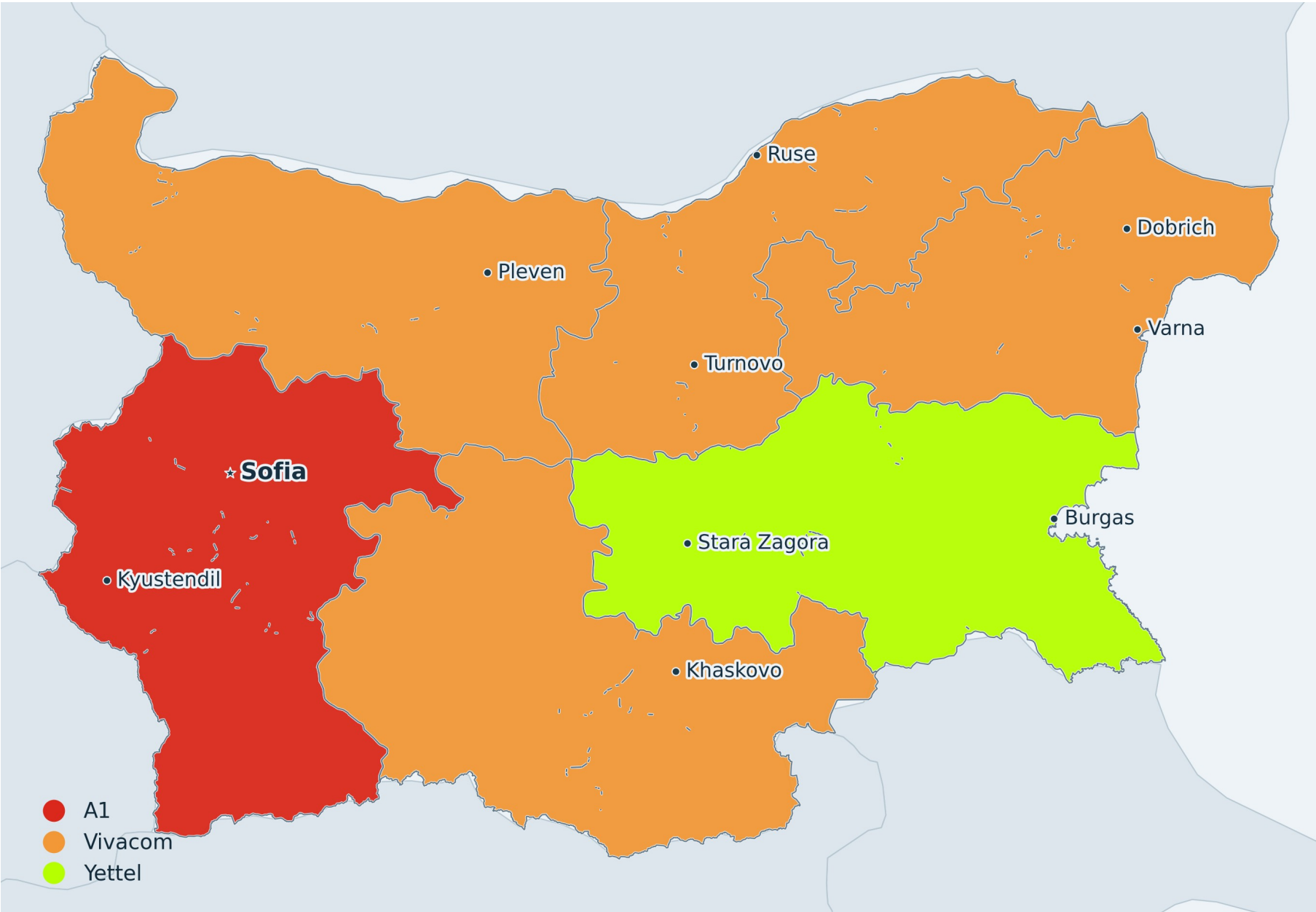
72.6 %

Yuzhen tsentralen

67.2 %

Source : nPerf.com

Regional Winner



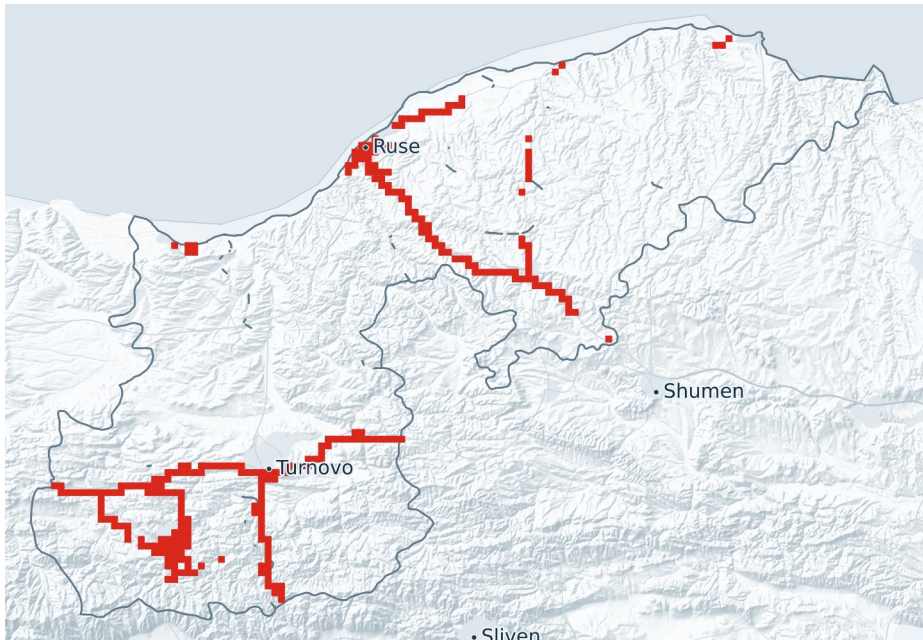
Source : nPerf.com

5G coverage — Severen tsentralen



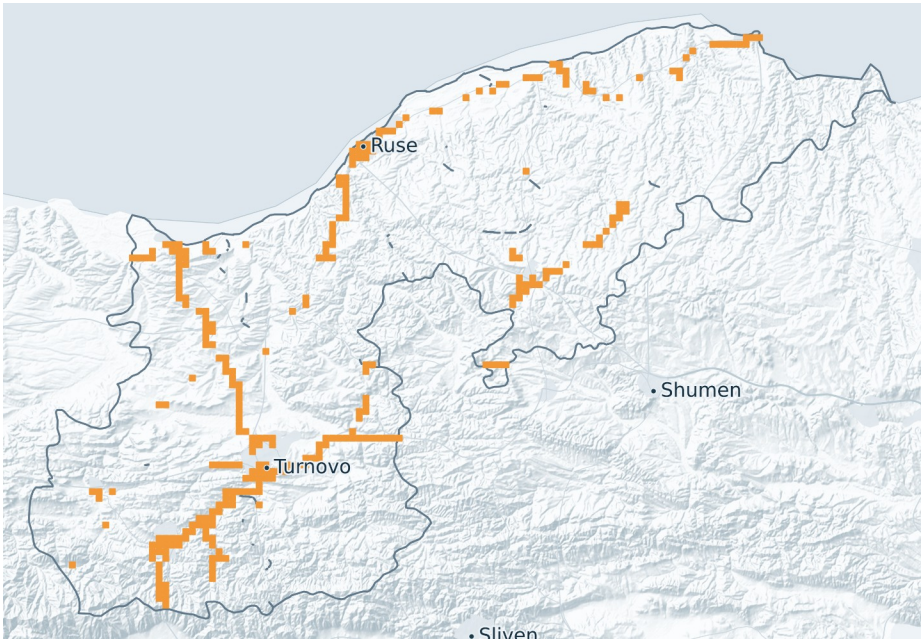
A1

- Geographical Coverage
56,45 %
- In mobility Pop. Coverage
70,41 %
- nPerf Coverage Score
63,43 %



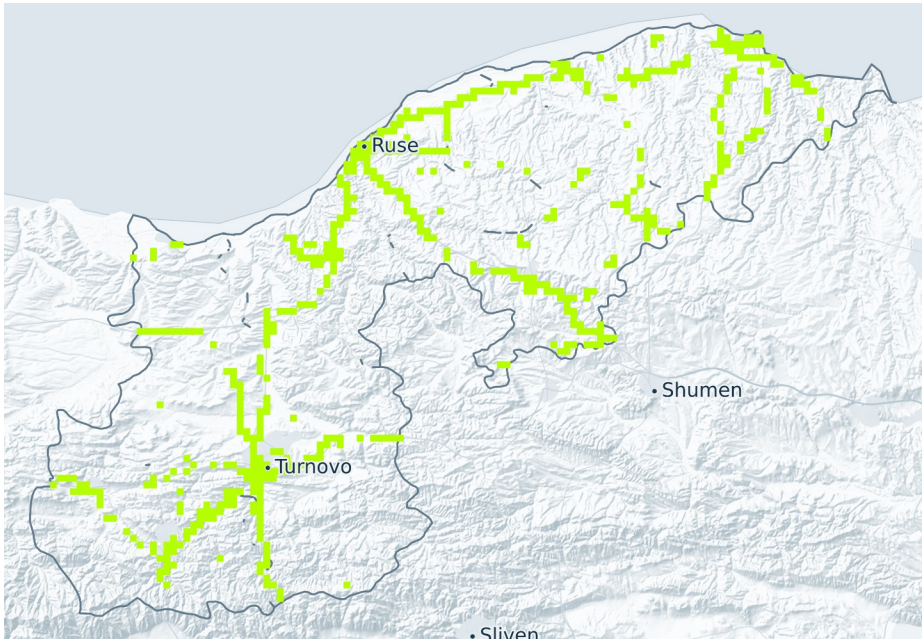
VIVACOM

- Geographical Coverage
69,40 %
- In mobility Pop. Coverage
76,93 %
- nPerf Coverage Score
73,16 %



Yettel.

- Geographical Coverage
54,48 %
- In mobility Pop. Coverage
69,44 %
- nPerf Coverage Score
61,96 %

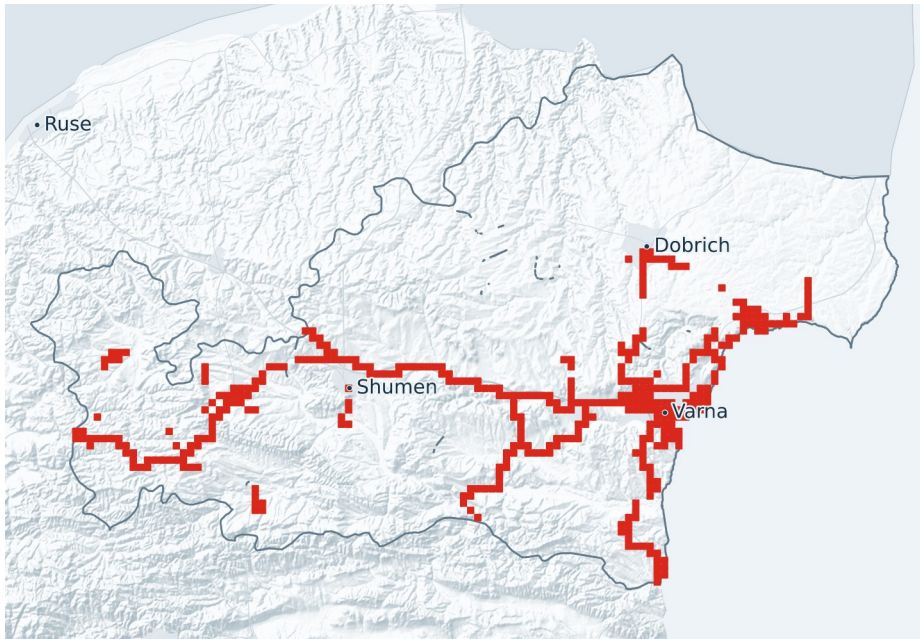


5G coverage — Severoiztochen



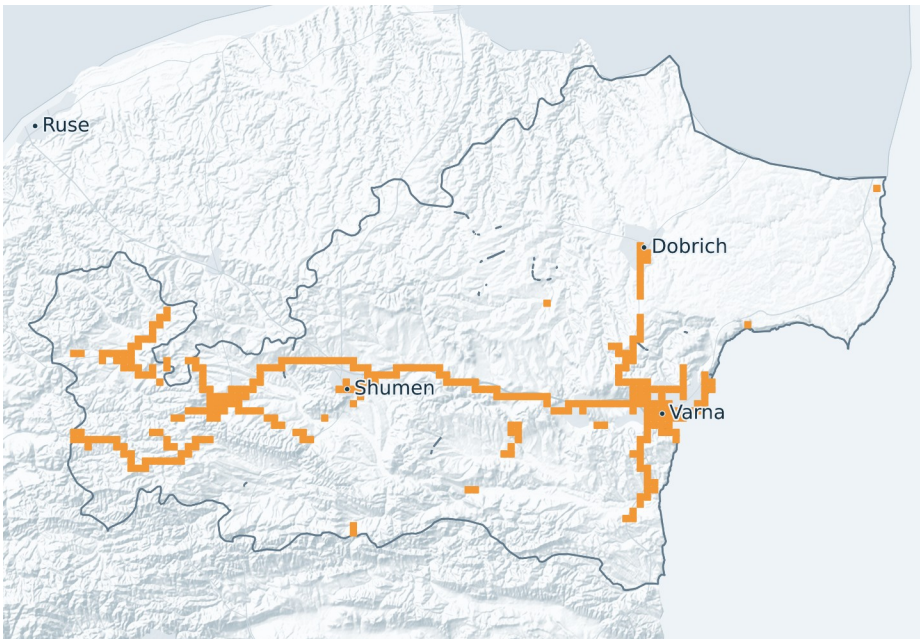
A1

Geographical Coverage
68,04 %
In mobility Pop. Coverage
81,78 %
nPerf Coverage Score
74,91 %



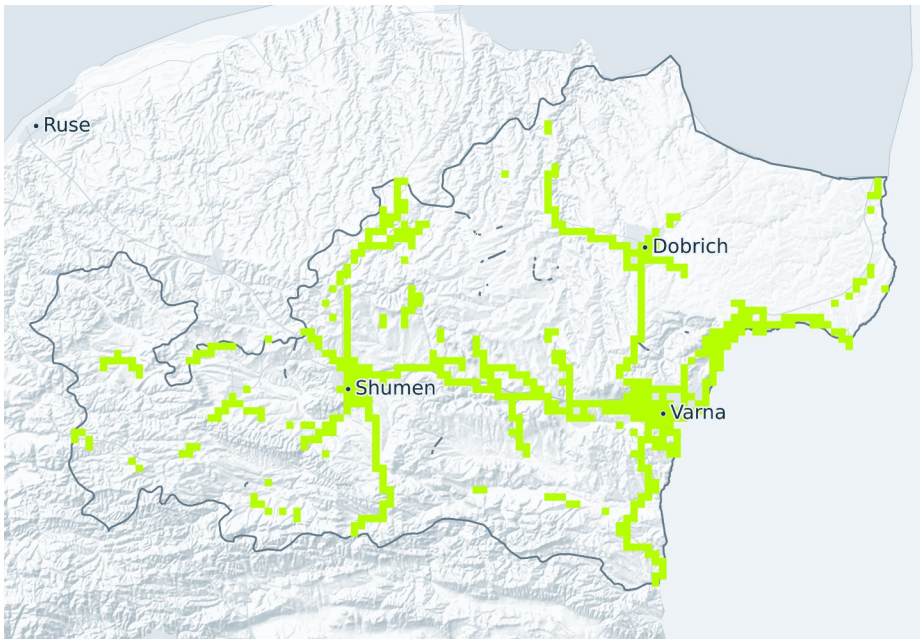
VIVACOM

Geographical Coverage
69,48 %
In mobility Pop. Coverage
81,94 %
nPerf Coverage Score
75,71 %



Yettel.

Geographical Coverage
63,83 %
In mobility Pop. Coverage
79,35 %
nPerf Coverage Score
71,59 %

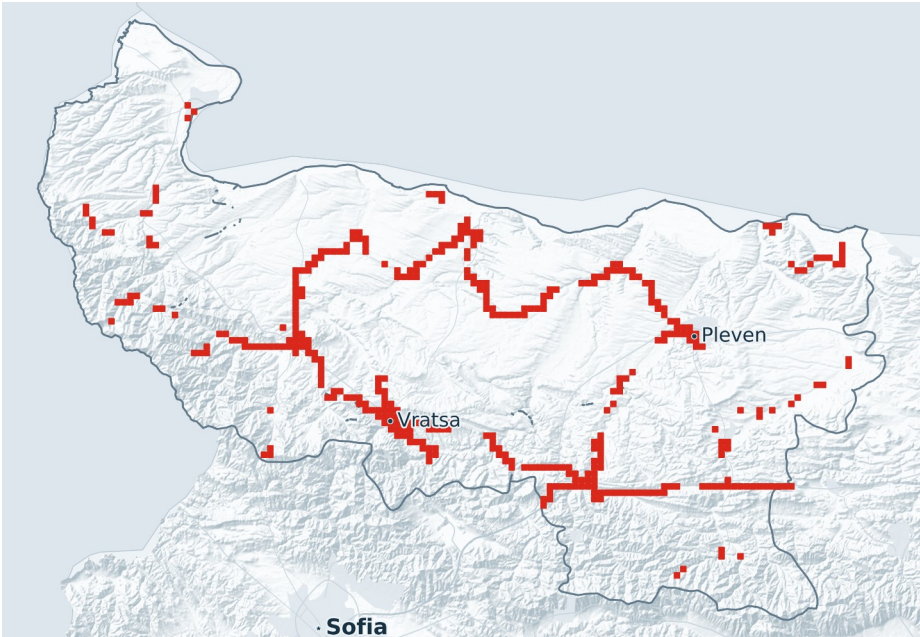


5G coverage — Severozapaden

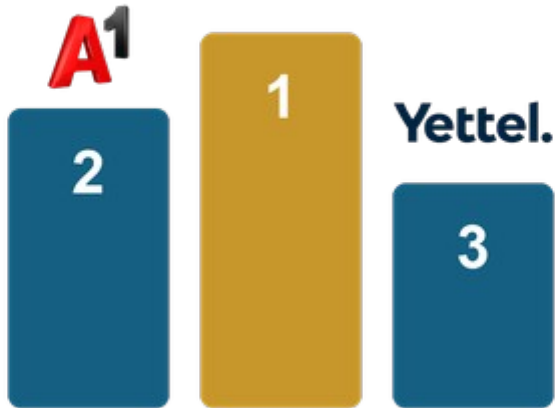


A1

- Geographical Coverage
60,68 %
- In mobility Pop. Coverage
70,13 %
- nPerf Coverage Score
65,41 %



VIVACOM



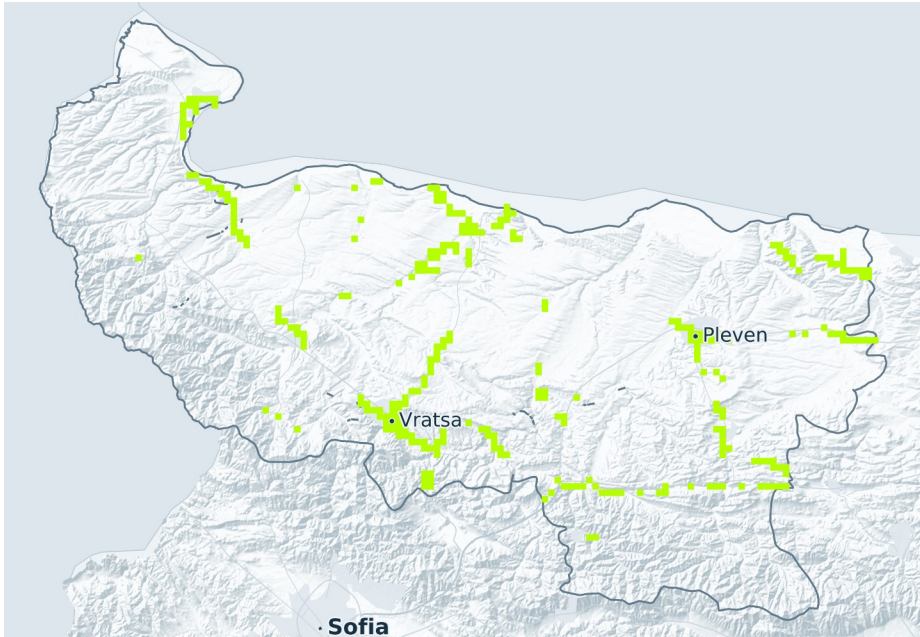
VIVACOM

- Geographical Coverage
67,19 %
- In mobility Pop. Coverage
78,72 %
- nPerf Coverage Score
72,96 %



Yettel.

- Geographical Coverage
25,69 %
- In mobility Pop. Coverage
36,97 %
- nPerf Coverage Score
31,33 %

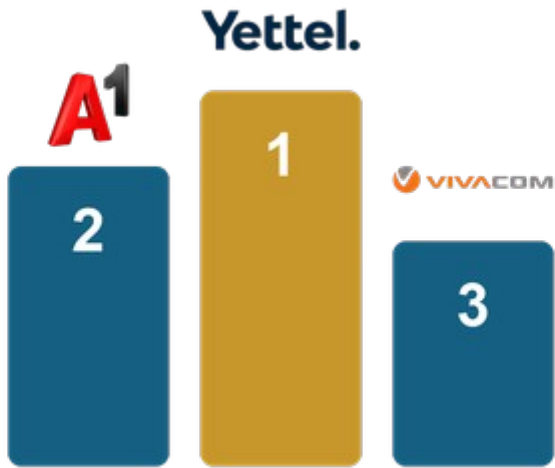
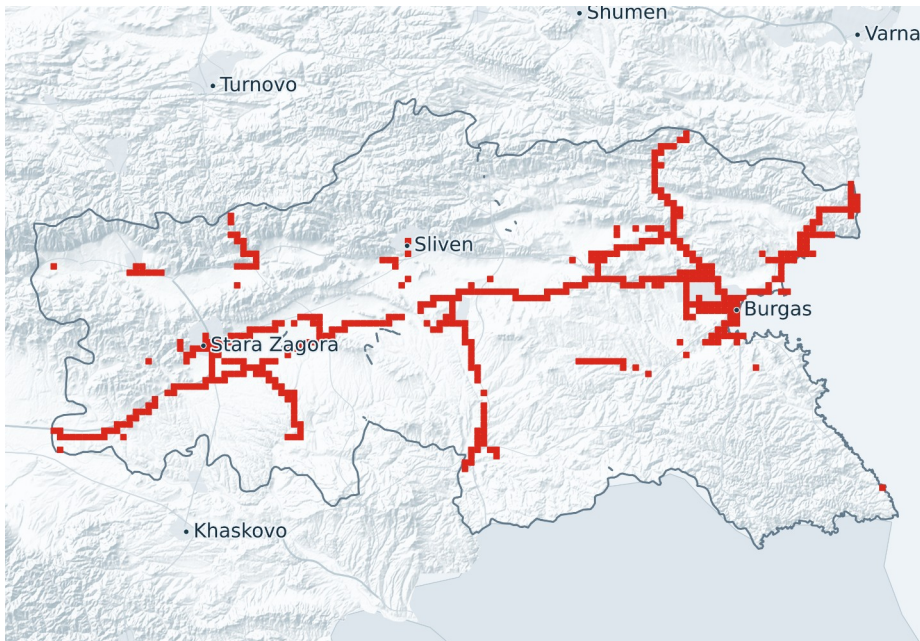


5G coverage — Yugoiztochen



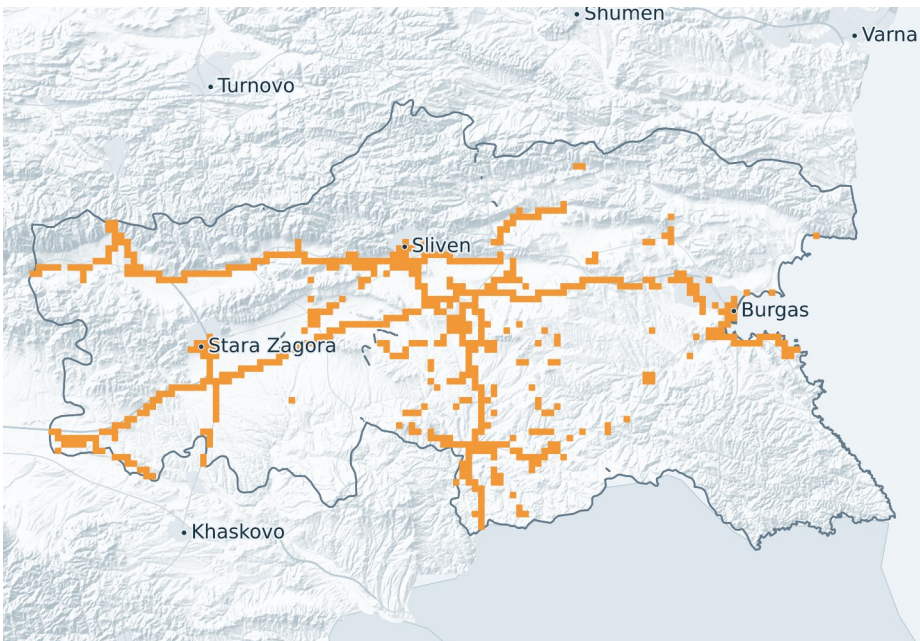
A1

Geographical Coverage
64,33 %
In mobility Pop. Coverage
79,21 %
nPerf Coverage Score
71,77 %



VIVACOM

Geographical Coverage
62,69 %
In mobility Pop. Coverage
66,17 %
nPerf Coverage Score
64,43 %



Yettel.

Geographical Coverage
67,89 %
In mobility Pop. Coverage
81,30 %
nPerf Coverage Score
74,60 %

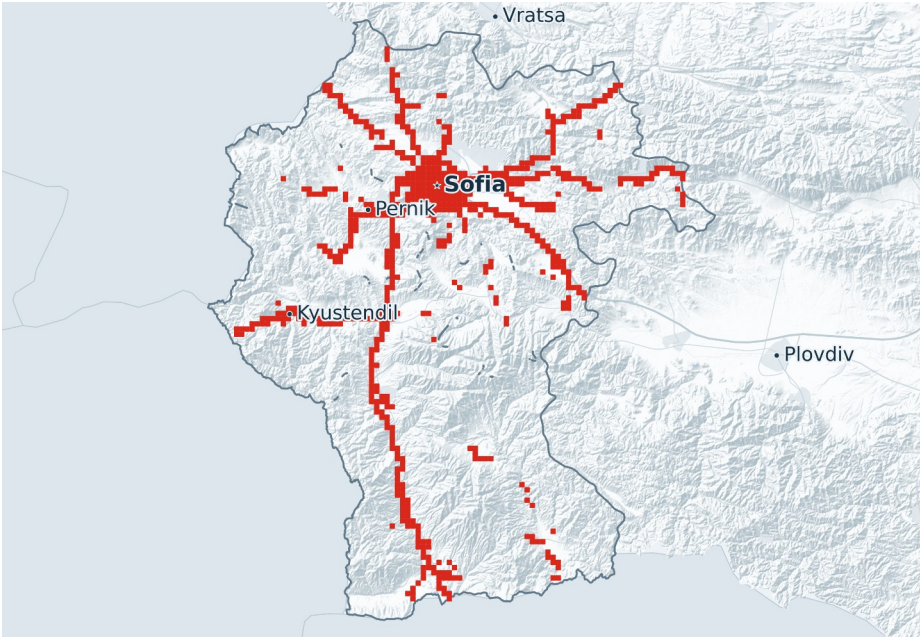


5G coverage — Yugozapaden

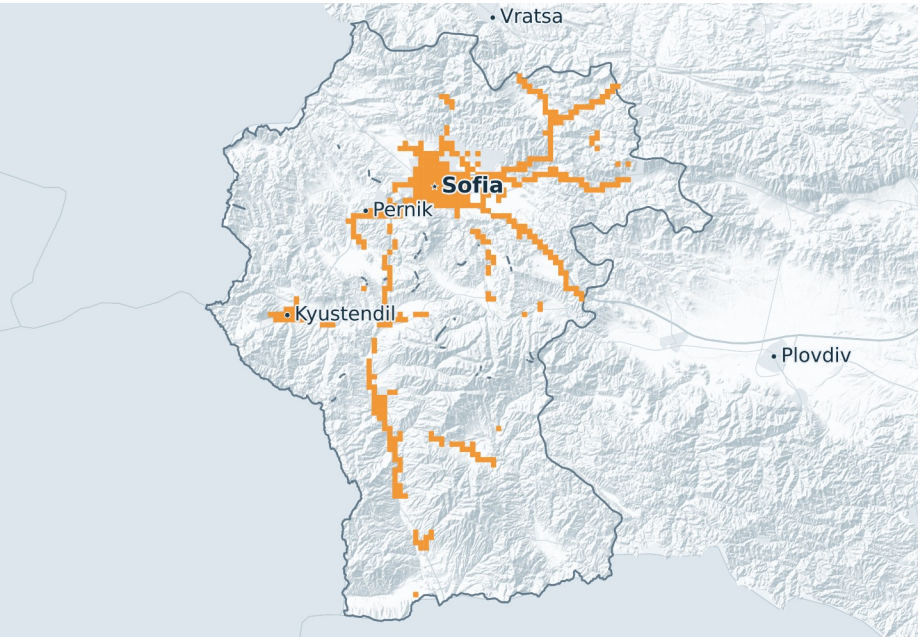


A1

Geographical Coverage
69,07 %
In mobility Pop. Coverage
87,62 %
nPerf Coverage Score
78,34 %



Geographical Coverage
50,76 %
In mobility Pop. Coverage
75,07 %
nPerf Coverage Score
62,91 %



Yettel.



Geographical Coverage
67,21 %
In mobility Pop. Coverage
86,11 %
nPerf Coverage Score
76,66 %

5G coverage — Yuzhen tsentralen



A1

Geographical Coverage

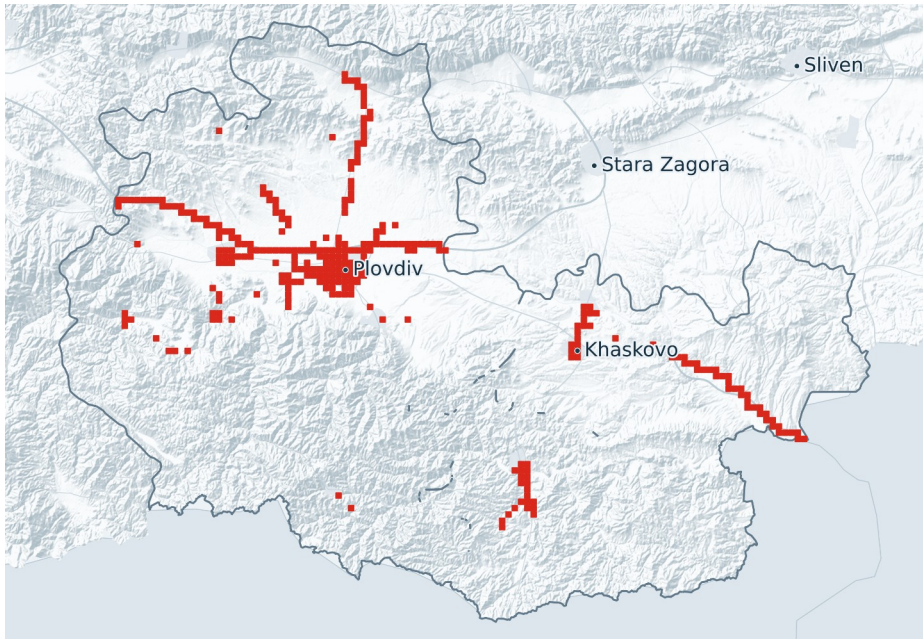
57,27 %

In mobility Pop. Coverage

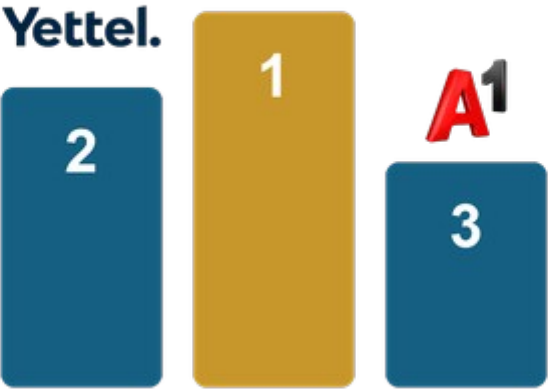
74,32 %

nPerf Coverage Score

65,80 %



VIVACOM



VIVACOM

Geographical Coverage

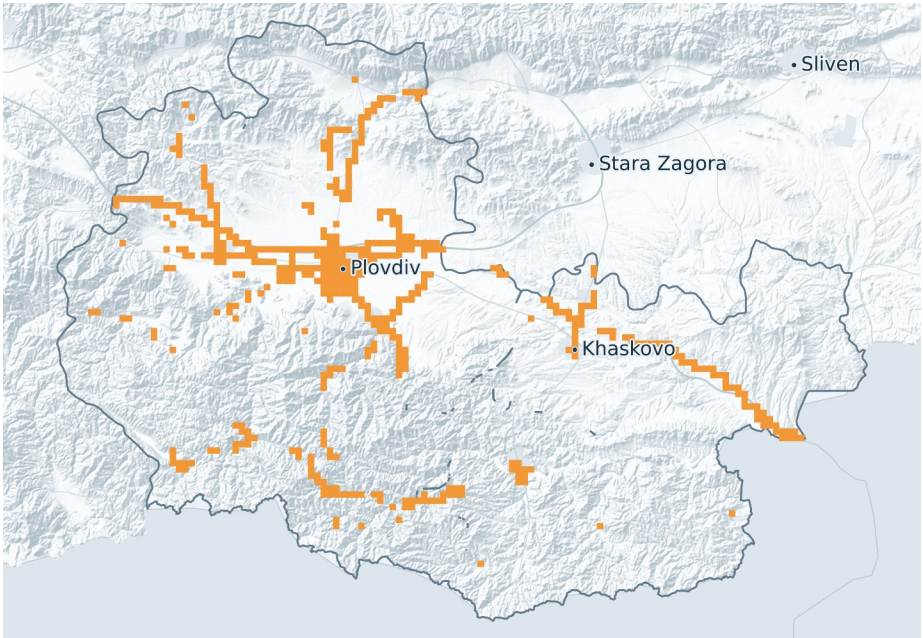
58,65 %

In mobility Pop. Coverage

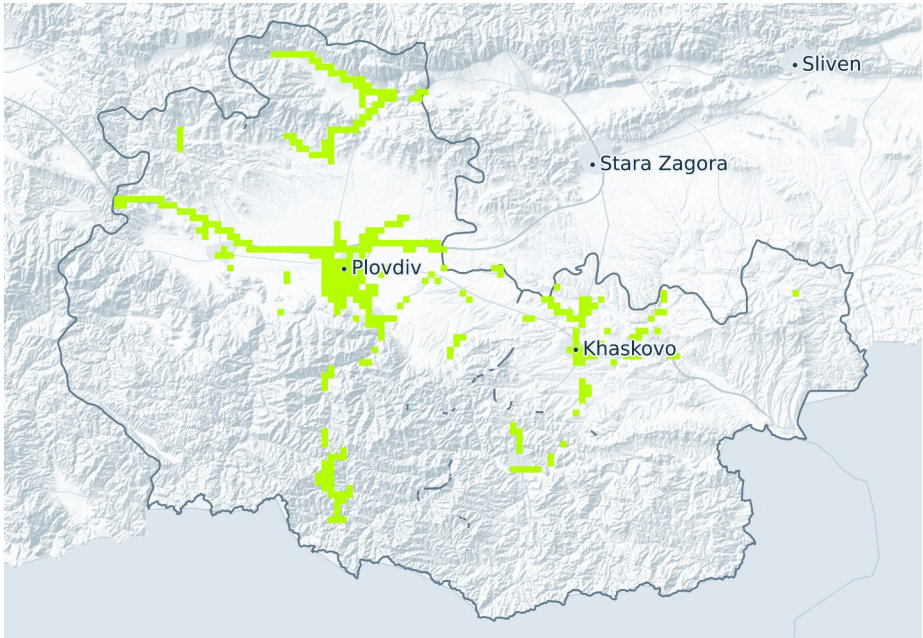
79,18 %

nPerf Coverage Score

68,91 %



Yettel.



Geographical Coverage

54,81 %

In mobility Pop. Coverage

78,94 %

nPerf Coverage Score

66,88 %

