

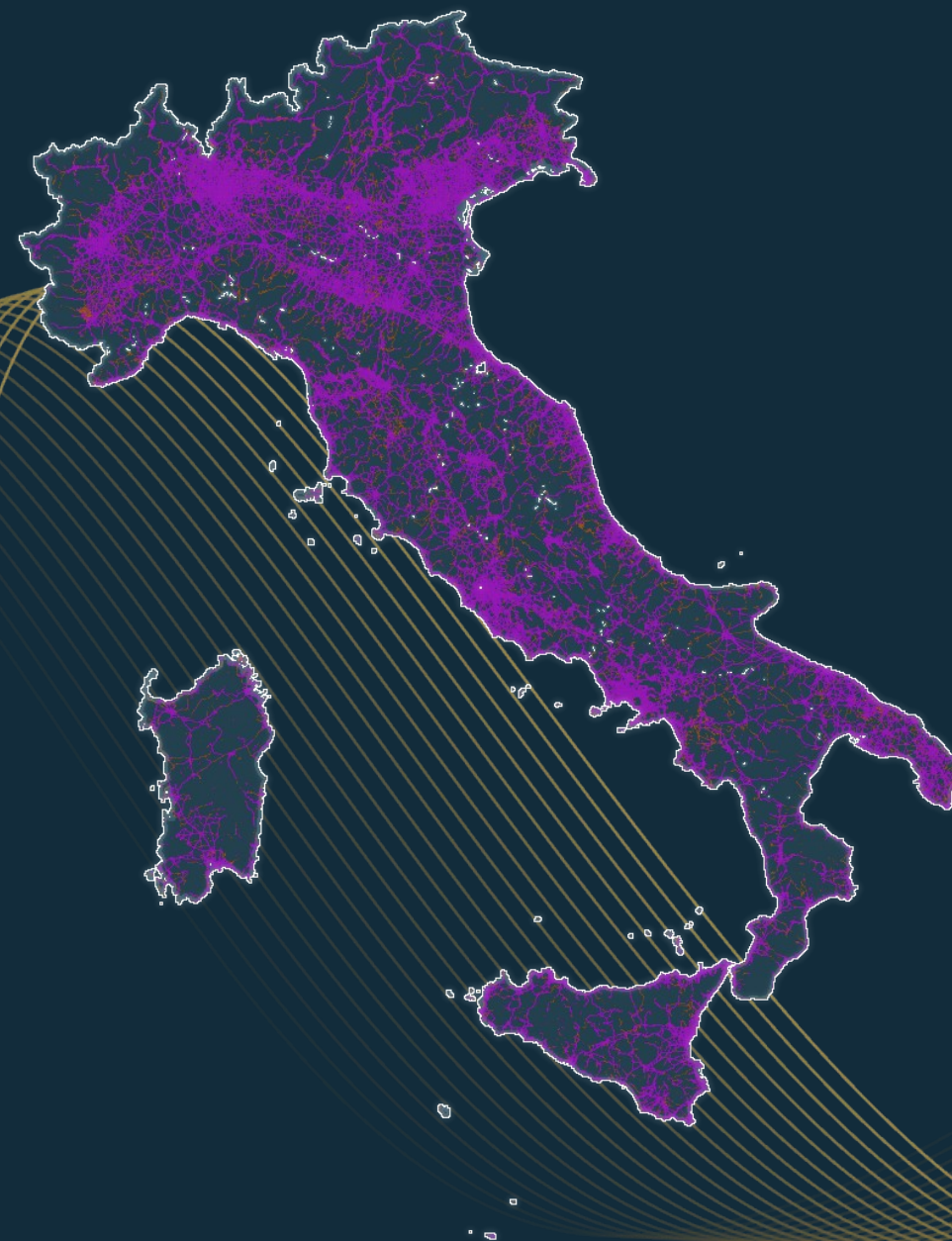
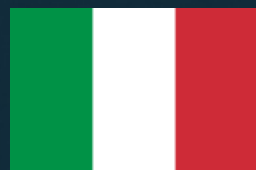
September 2026



Barometer of mobile coverage in Italy

4G/5G

09/01/2025 - 08/31/2026



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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.

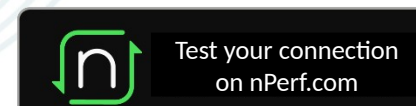
 **26Md+** coverage
scans in total.

 **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 TIM enjoyed the best 4G coverage in 2026 in Italy.

Mobile coverage rate in Italy					
	Fastweb	Iliad	TIM	Vodafone	Wind Tre
Geographical Coverage Rate	95.25	93.93	95.77	95.09	93.94
Population Coverage Rate	98.60	98.55	99.10	98.91	98.74
nPerf Coverage Score	96.92	96.24	97.43	97.00	96.34

Source : nPerf.com

Best Mobile coverage in Italy

Source : nPerf.com

nPerf Podium

Source : nPerf.com

4. National 4G coverage maps

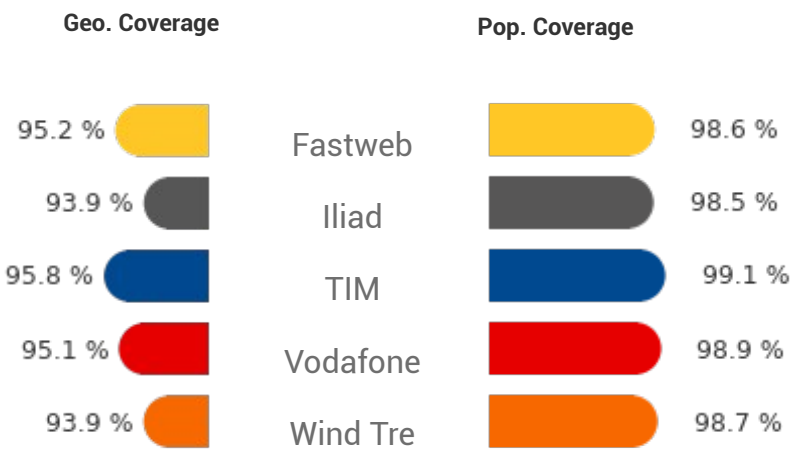


nPerf Coverage Score



Source : nPerf.com

Coverage Indicators



Source : nPerf.com

National Coverage



Fastweb

Geographical Coverage Rate (%)	95.25
Population Coverage Rate (%)	98.60
nPerf Coverage Score (%)	96.92



Iliad

Geographical Coverage Rate (%) 93.93

Population Coverage Rate (%) 98.55

nPerf Coverage Score (%) 96.24



TIM

Geographical Coverage Rate (%) 95.77

Population Coverage Rate (%) 99.10

nPerf Coverage Score (%) 97.43



Vodafone

Geographical Coverage Rate (%) 95.09

Population Coverage Rate (%) 98.91

nPerf Coverage Score (%) 97.00



Wind Tre

Geographical Coverage Rate (%)	93.94
Population Coverage Rate (%)	98.74
nPerf Coverage Score (%)	96.34



5. Executive Summary 5G



The subscribers of Wind Tre enjoyed the best 5G coverage in 2026 in Italy.

Mobile coverage rate in Italy				
	Iliad	TIM	Vodafone	<u>Wind Tre</u>
Geographical Coverage Rate	69.00	64.01	67.35	76.31
Population Coverage Rate	86.95	84.77	86.39	93.53
nPerf Coverage Score	77.97	74.39	76.87	84.92

Source : nPerf.com



Best Mobile coverage in Italy



Source : nPerf.com

nPerf Podium



Source : nPerf.com

6. National 5G coverage maps

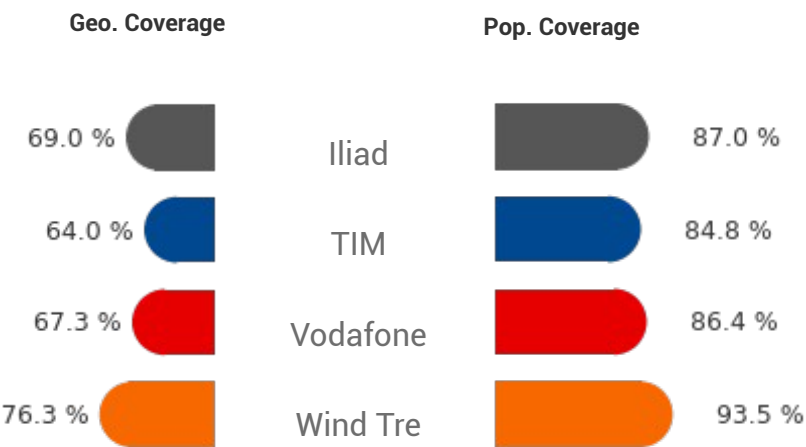


nPerf Coverage Score



Source : nPerf.com

Coverage Indicators



Source : nPerf.com

National Coverage



Iliad

Geographical Coverage Rate (%) 69.00

Population Coverage Rate (%) 86.95

nPerf Coverage Score (%) 77.97



TIM

Geographical Coverage Rate (%) 64.01

Population Coverage Rate (%) 84.77

nPerf Coverage Score (%) 74.39



Vodafone

Geographical Coverage Rate (%) 67.35

Population Coverage Rate (%) 86.39

nPerf Coverage Score (%) 76.87



Wind Tre

Geographical Coverage Rate (%) 76.31

Population Coverage Rate (%) 93.53

nPerf Coverage Score (%) 84.92



7. Regional 4G coverage: Methodology



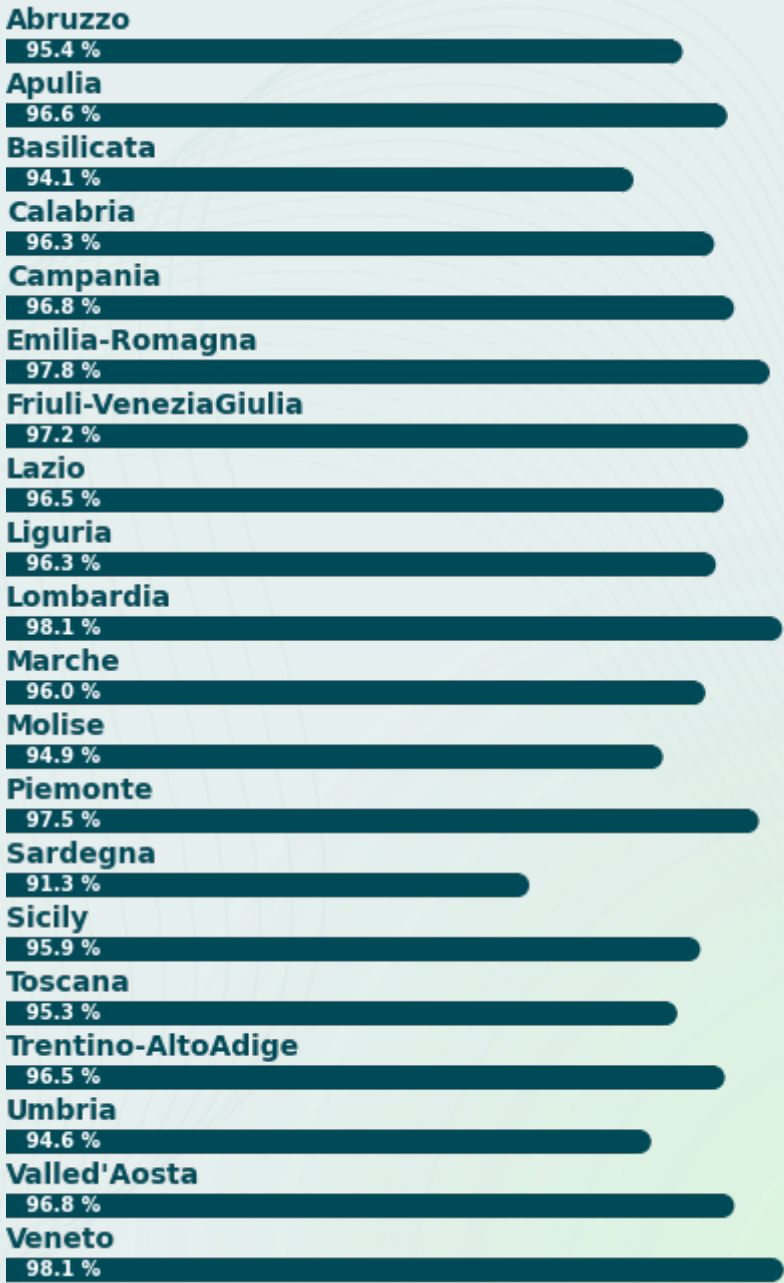
Regions	Measurements	Device count	Measurements per operator
Lombardia	18 064 975	320 370	35% 23% 16% 18% 8%
Lazio	11 490 351	217 748	28% 25% 20% 20%
Emilia-Romagna	10 365 368	228 363	45% 18% 15% 16%
Veneto	10 233 121	230 278	36% 18% 15% 22% 8%
Piemonte	8 141 179	161 270	35% 24% 14% 19% 7%
Campania	7 064 622	129 439	43% 19% 19% 13%
Toscana	6 952 428	142 617	35% 25% 17% 13% 9%
Apulia	5 628 193	106 811	40% 13% 22% 16% 8%
Sicily	4 702 227	79 324	40% 21% 16% 16% 7%
Abruzzo	2 883 262	57 798	36% 17% 15% 12% 19%
Marche	2 730 356	63 883	29% 25% 27% 15%
Umbria	2 573 333	46 749	29% 44% 14% 12%
Liguria	2 197 434	46 639	39% 26% 14% 15%
Trentino-AltoAdige	2 019 639	45 580	55% 14% 10% 17%
Friuli-VeneziaGiulia	1 598 620	42 504	43% 22% 14% 15%
Calabria	1 301 583	29 588	24% 31% 26% 13%
Sardegna	1 078 746	25 886	34% 13% 32% 18%
Molise	789 482	13 768	27% 11% 25% 24% 12%
Basilicata	469 643	12 241	39% 11% 34% 12%
Valled'Aosta	191 491	6 420	17% 26% 17% 26% 15%



Regional 4G coverage



nPerf Coverage Score



Source : nPerf.com

Regional Winner



Source : nPerf.com

8. Regional 5G coverage: Methodology



Regions	Measurements	Device count	Measurements per operator
Lombardia	7 082 430	246 595	44% 23% 18% 16%
Lazio	4 268 121	173 950	34% 21% 24% 20%
Veneto	4 214 286	182 873	45% 17% 16% 22%
Emilia-Romagna	3 759 701	169 350	51% 20% 14% 15%
Piemonte	3 059 552	121 723	41% 24% 19% 16%
Campania	2 475 034	96 055	56% 19% 16% 9%
Toscana	2 245 585	106 639	45% 18% 26% 12%
Apulia	1 857 585	71 061	50% 14% 17% 19%
Sicily	1 843 947	61 270	56% 18% 11% 15%
Umbria	1 141 278	41 206	30% 48% 13% 9%
Trentino-AltoAdige	940 851	36 166	67% 14% 8% 12%
Marche	886 897	45 153	41% 24% 20% 14%
Liguria	880 316	34 043	50% 19% 20% 11%
Abruzzo	849 678	38 967	61% 9% 16% 13%
Friuli-VeneziaGiulia	610 676	29 244	49% 31% 8% 11%
Sardegna	408 803	19 161	39% 11% 32% 18%
Calabria	382 559	19 756	41% 26% 22% 10%
Molise	297 821	9 714	44% 18% 33%
Basilicata	138 020	8 380	50% 28% 17%
Valled'Aosta	56 187	3 390	19% 24% 42% 14%



Regional 5G coverage

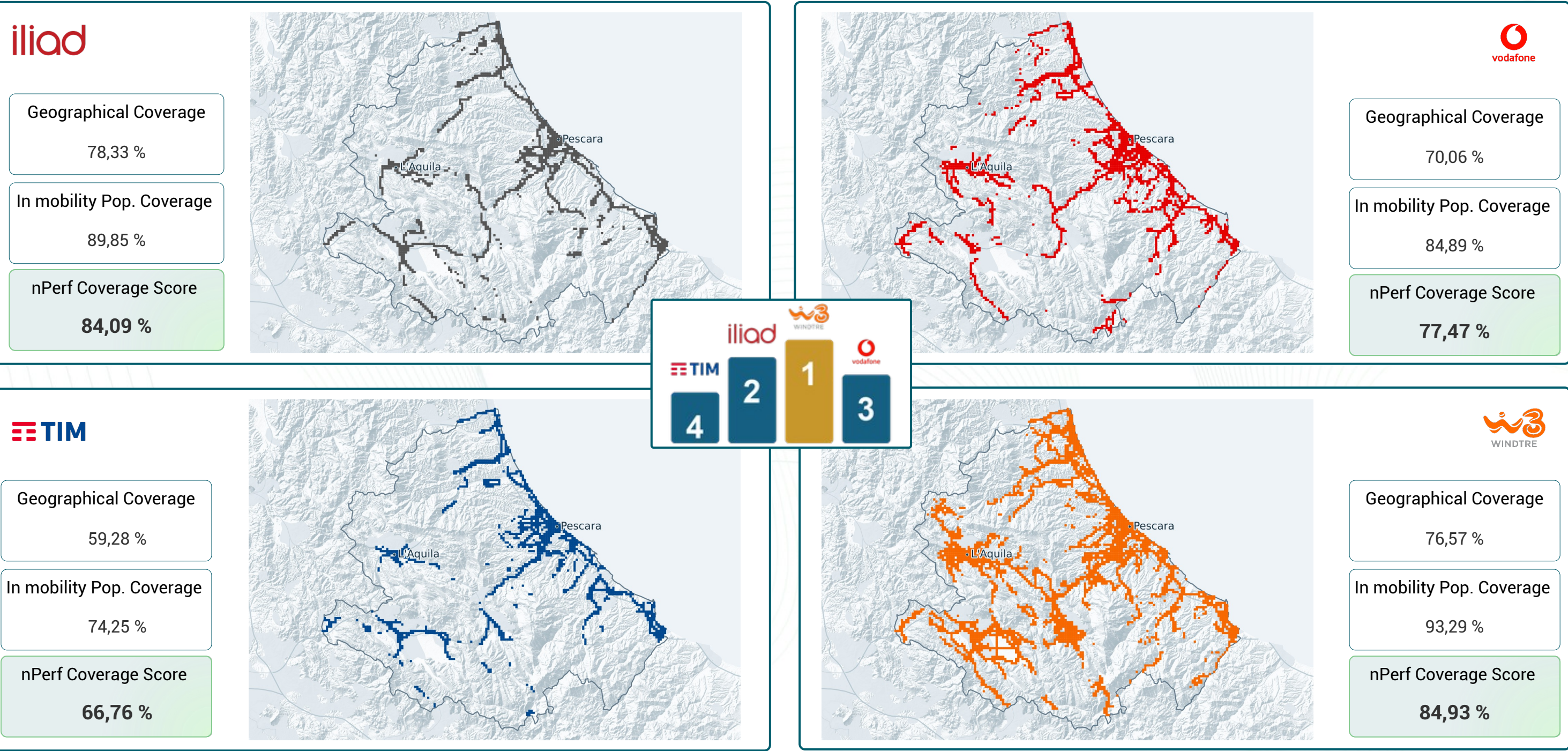


Regional Winner



Source : nPerf.com

5G coverage — Abruzzo



5G coverage — Apulia



iliad

Geographical Coverage

63,18 %

In mobility Pop. Coverage

79,95 %

nPerf Coverage Score

71,56 %



Geographical Coverage

55,37 %

In mobility Pop. Coverage

73,35 %

nPerf Coverage Score

64,36 %



TIM

Geographical Coverage

61,66 %

In mobility Pop. Coverage

69,90 %

nPerf Coverage Score

65,78 %



Geographical Coverage

73,74 %

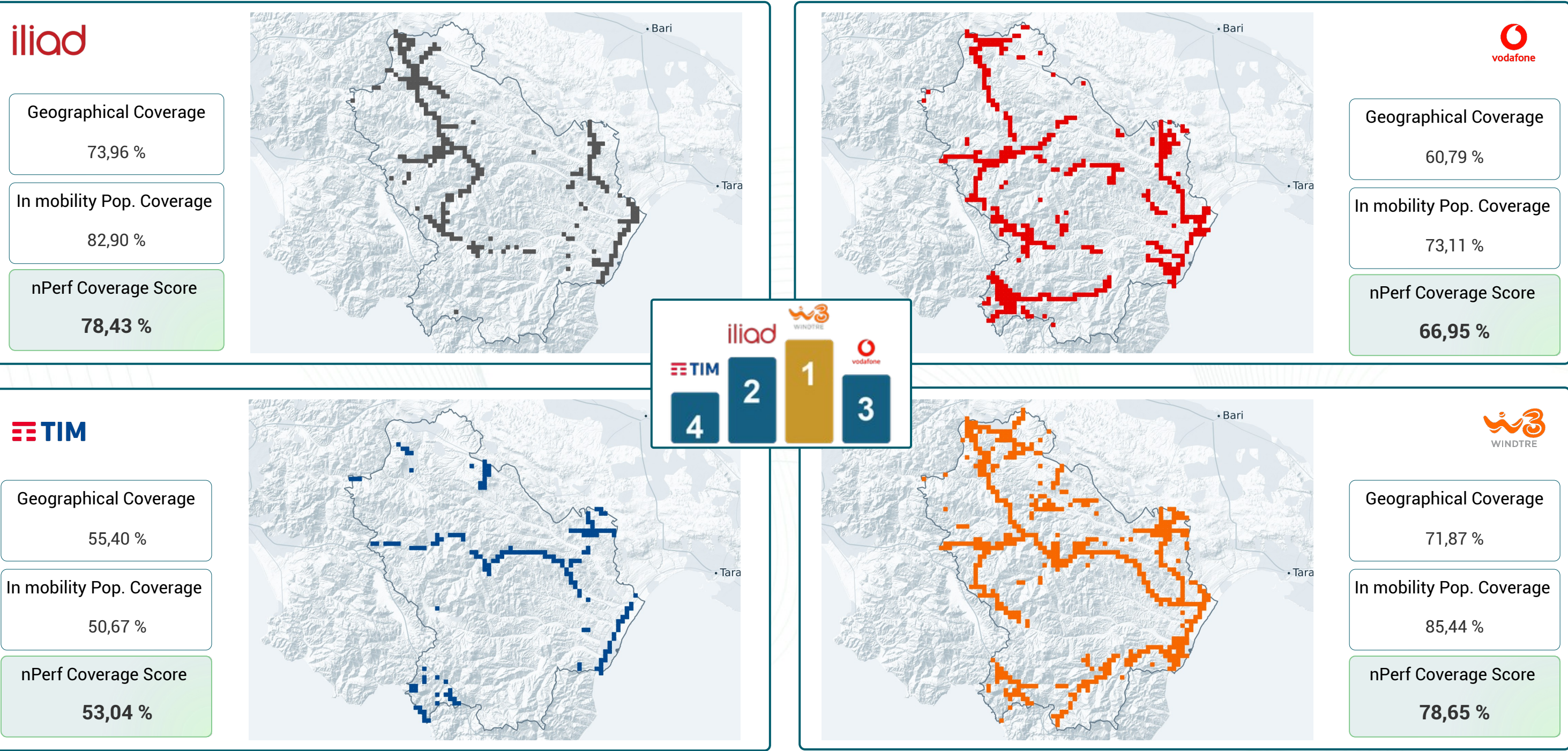
In mobility Pop. Coverage

91,26 %

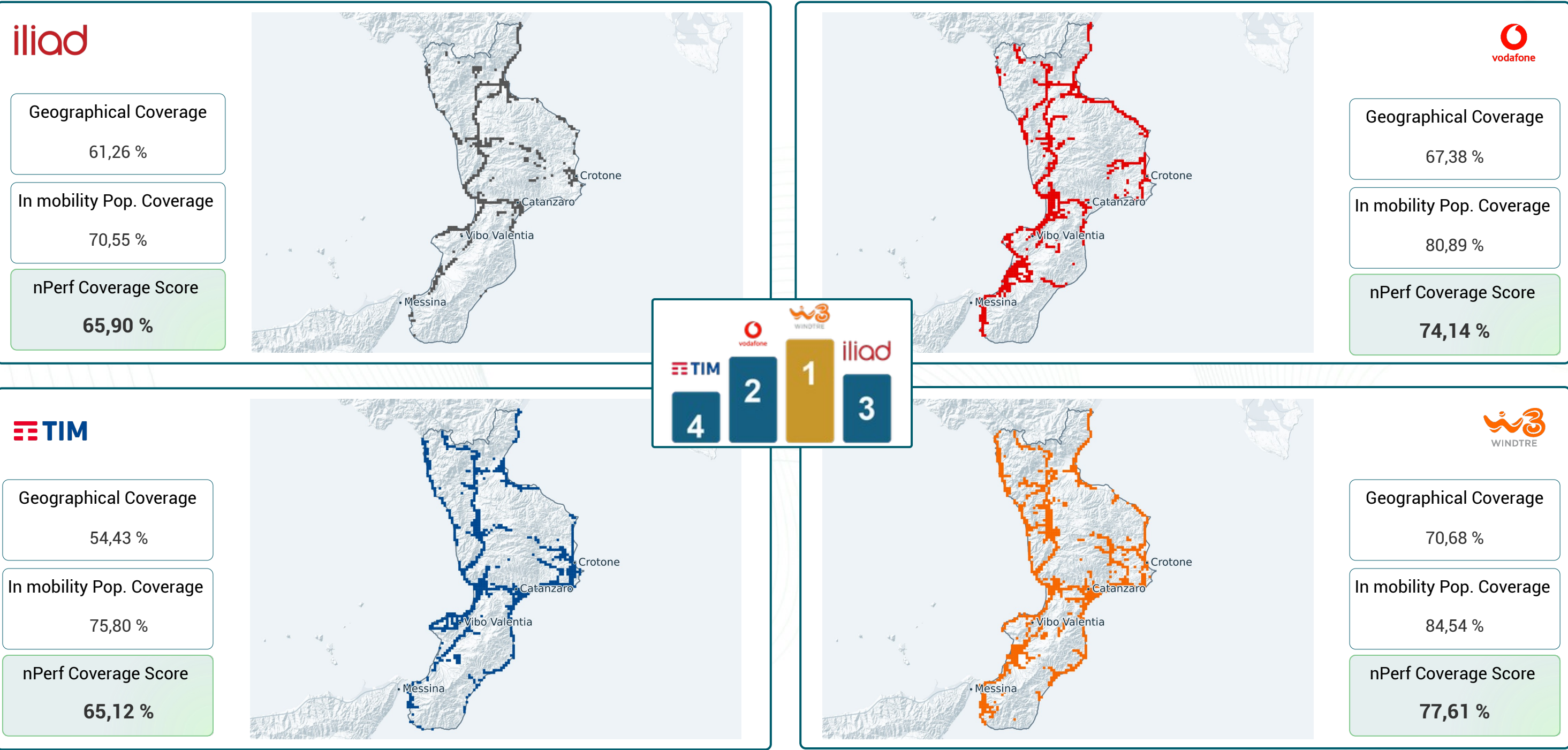
nPerf Coverage Score

82,50 %

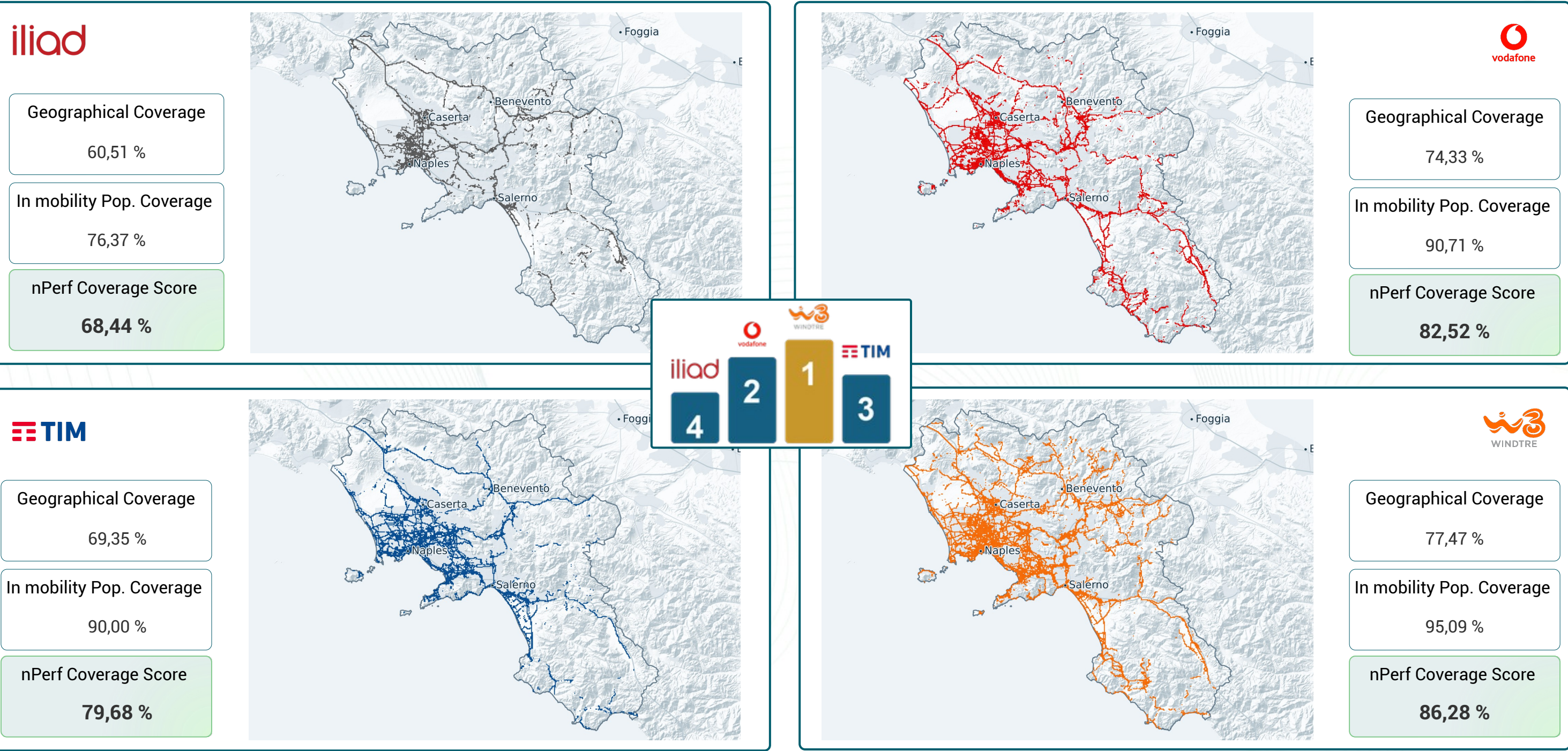
5G coverage — Basilicata



5G coverage — Calabria



5G coverage — Campania



5G coverage — Emilia-Romagna



iliad

Geographical Coverage

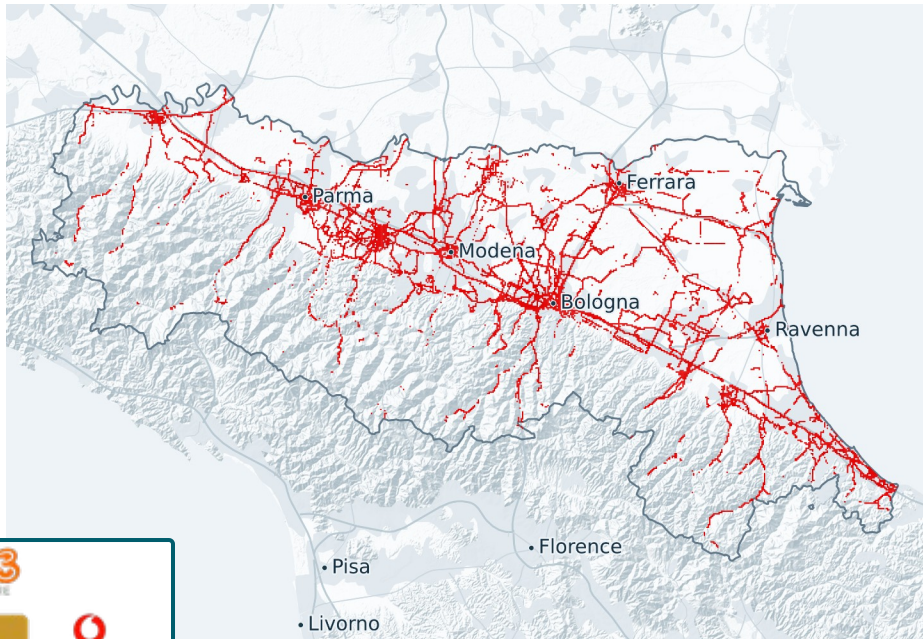
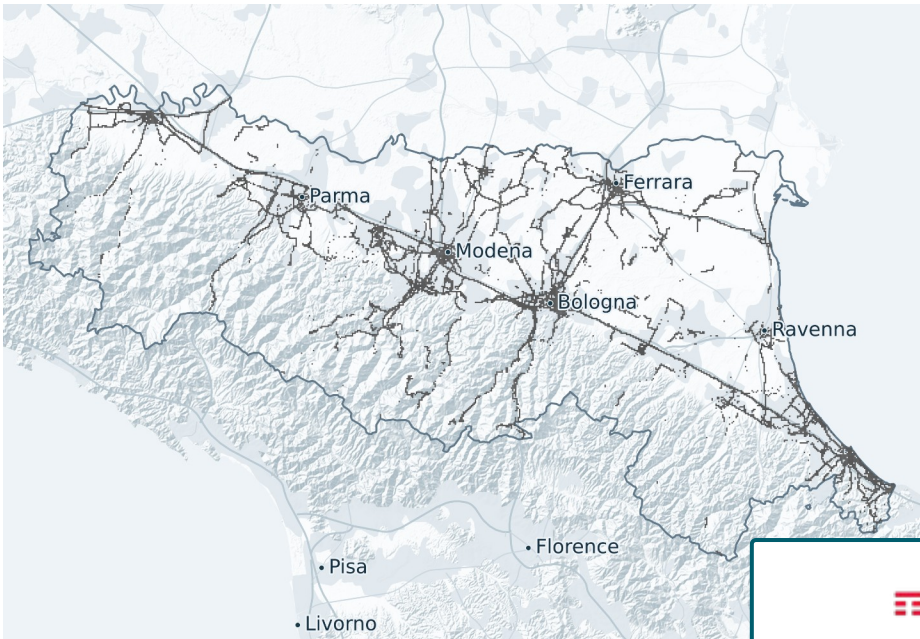
66,29 %

In mobility Pop. Coverage

88,61 %

nPerf Coverage Score

77,45 %



Geographical Coverage

68,67 %

In mobility Pop. Coverage

88,84 %

nPerf Coverage Score

78,76 %



TIM

Geographical Coverage

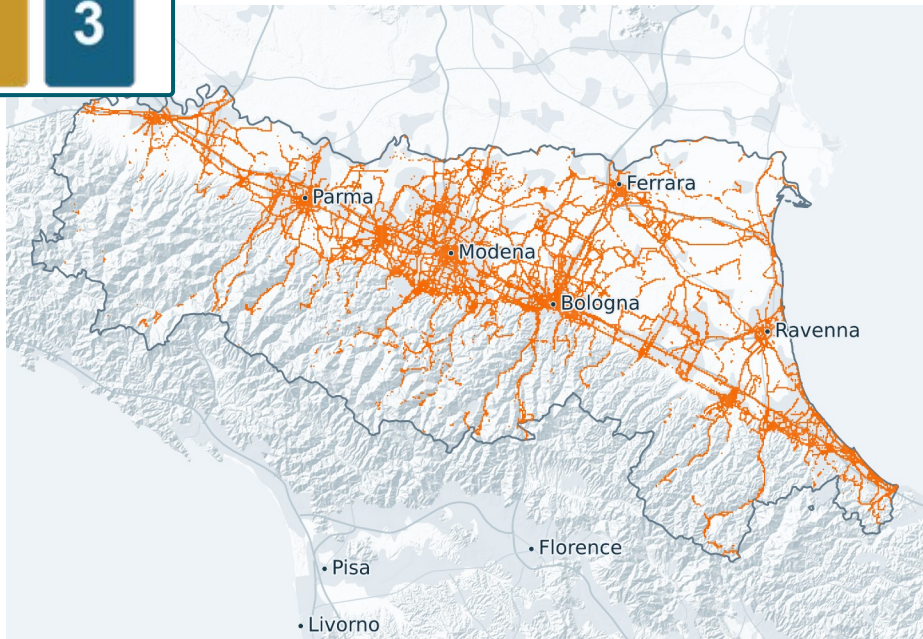
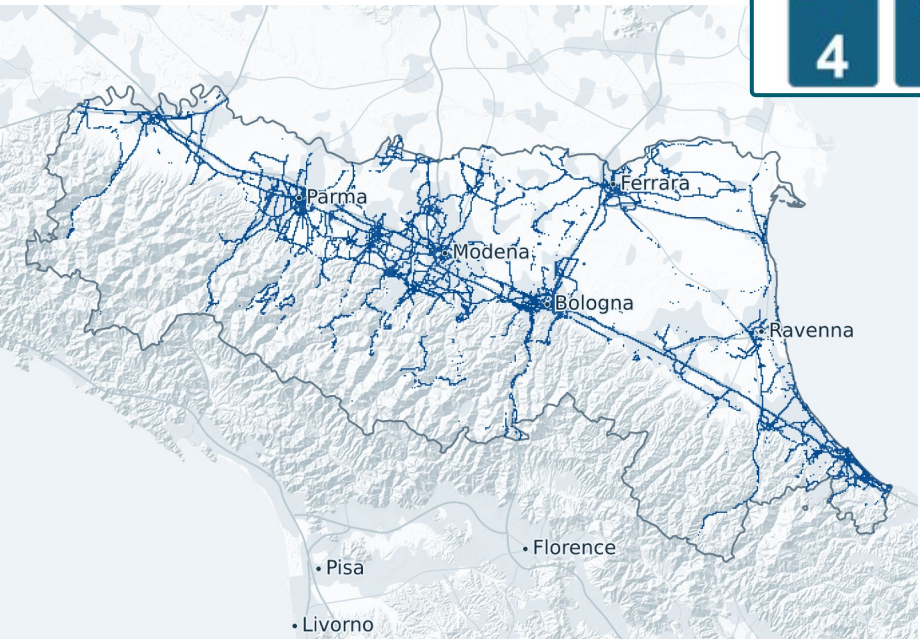
70,36 %

In mobility Pop. Coverage

90,14 %

nPerf Coverage Score

80,25 %



Geographical Coverage

77,72 %

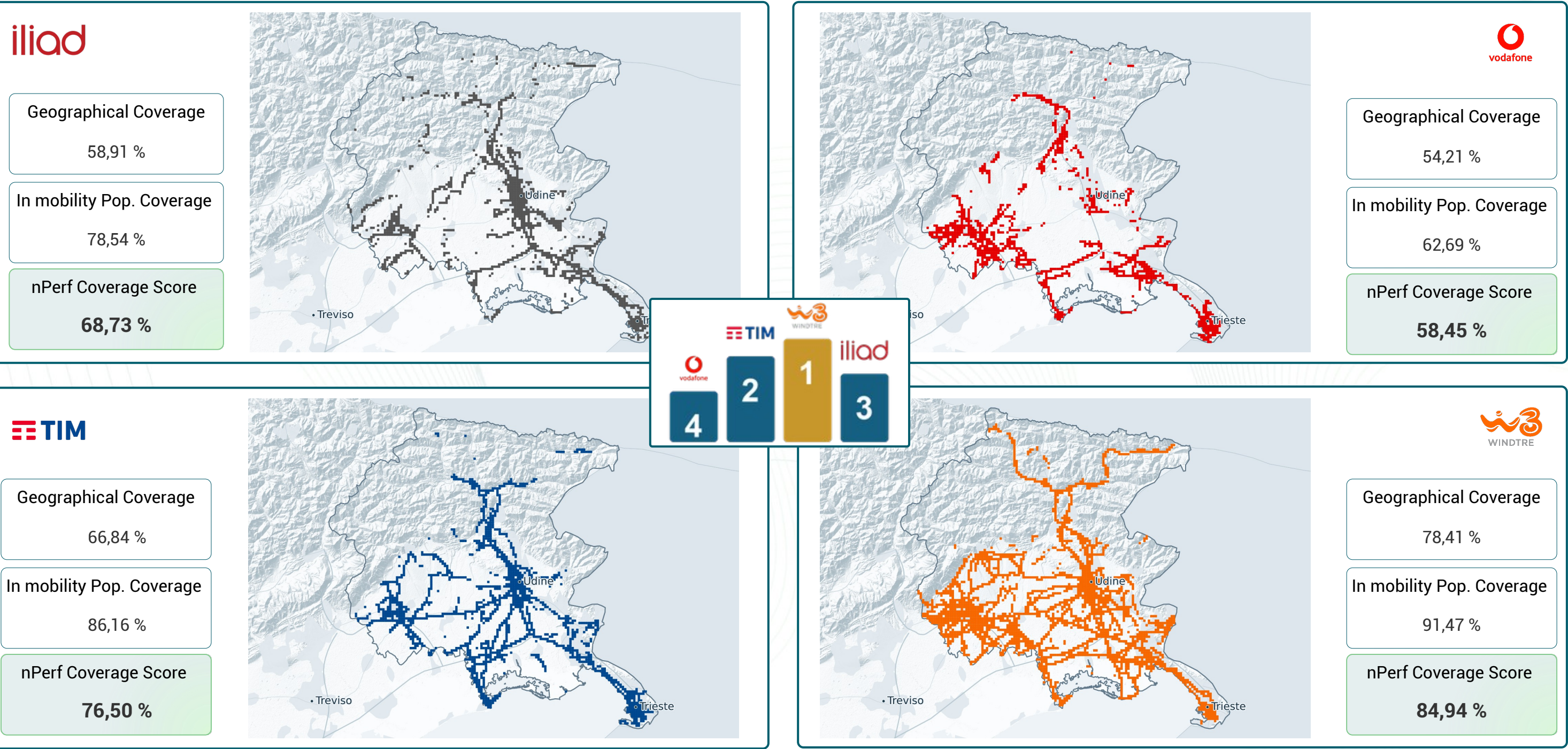
In mobility Pop. Coverage

95,42 %

nPerf Coverage Score

86,57 %

5G coverage — Friuli-VeneziaGiulia



5G coverage — Lazio



iliad

Geographical Coverage

70,89 %

In mobility Pop. Coverage

91,85 %

nPerf Coverage Score

81,37 %



Geographical Coverage

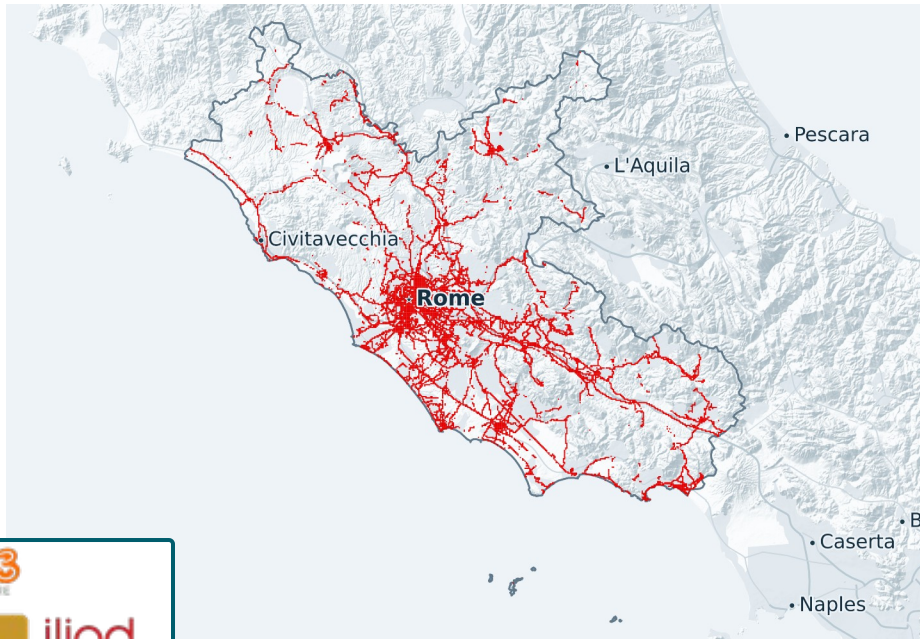
72,56 %

In mobility Pop. Coverage

91,50 %

nPerf Coverage Score

82,03 %



TIM

Geographical Coverage

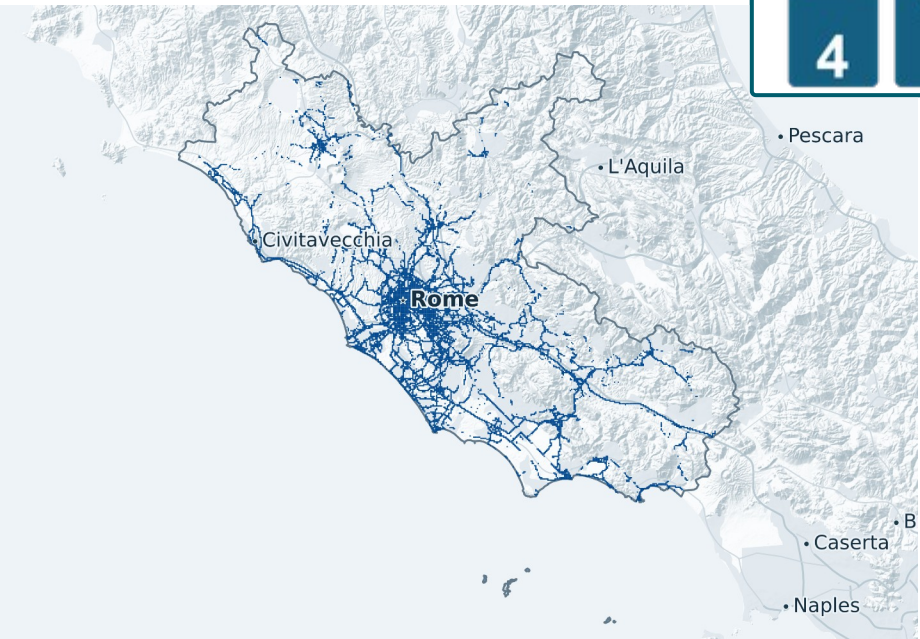
63,17 %

In mobility Pop. Coverage

87,38 %

nPerf Coverage Score

75,28 %



Geographical Coverage

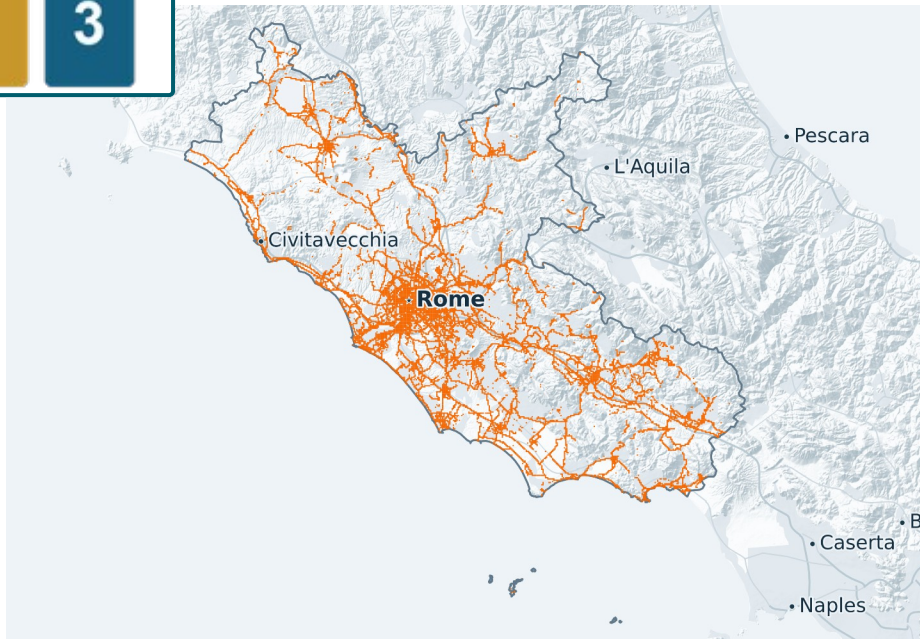
76,79 %

In mobility Pop. Coverage

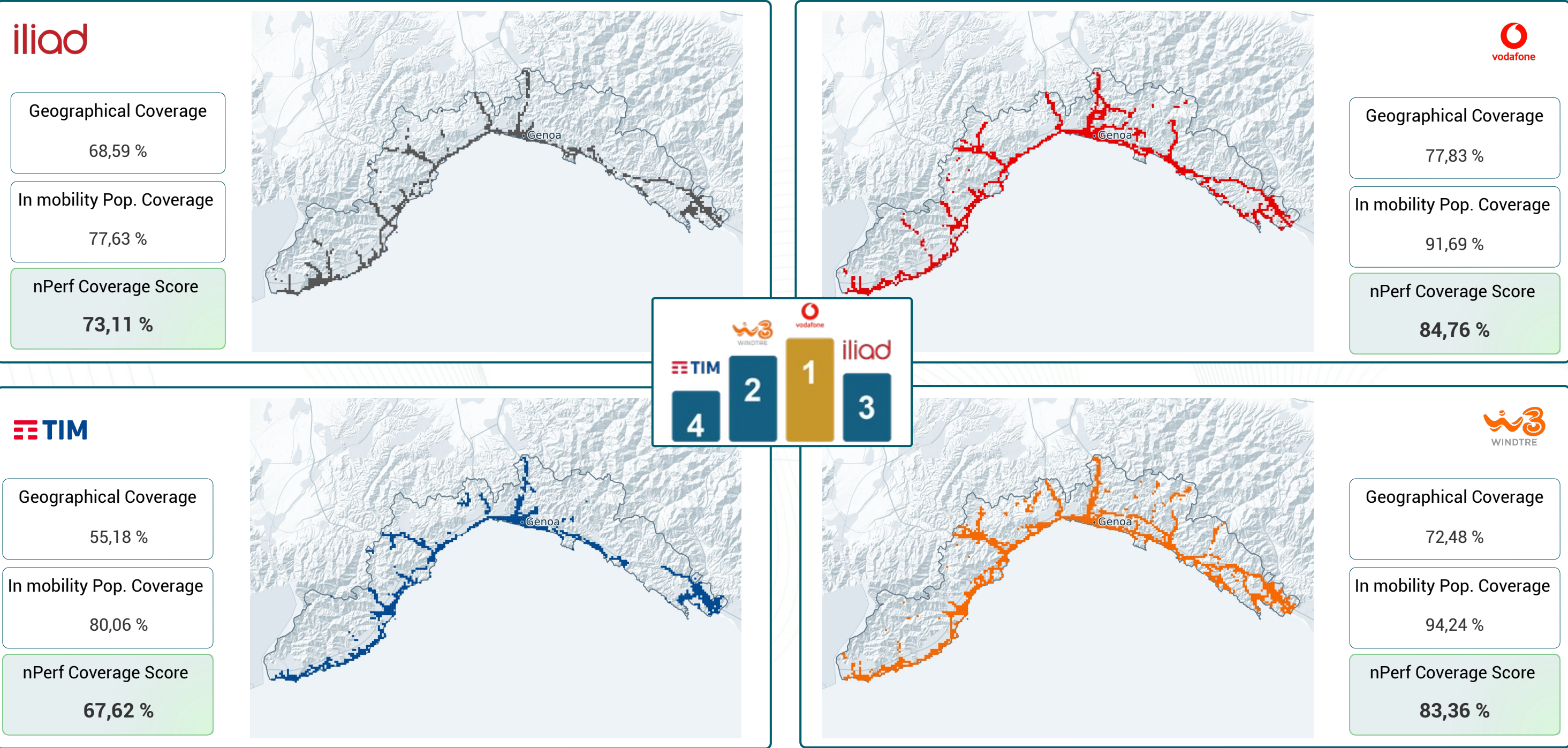
94,49 %

nPerf Coverage Score

85,64 %



5G coverage — Liguria



5G coverage — Lombardia



Geographical Coverage

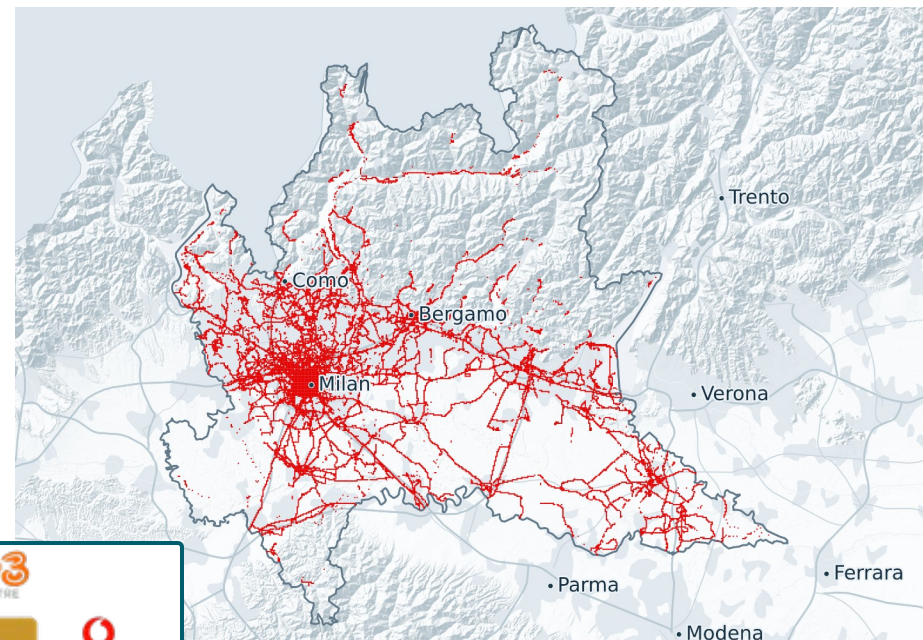
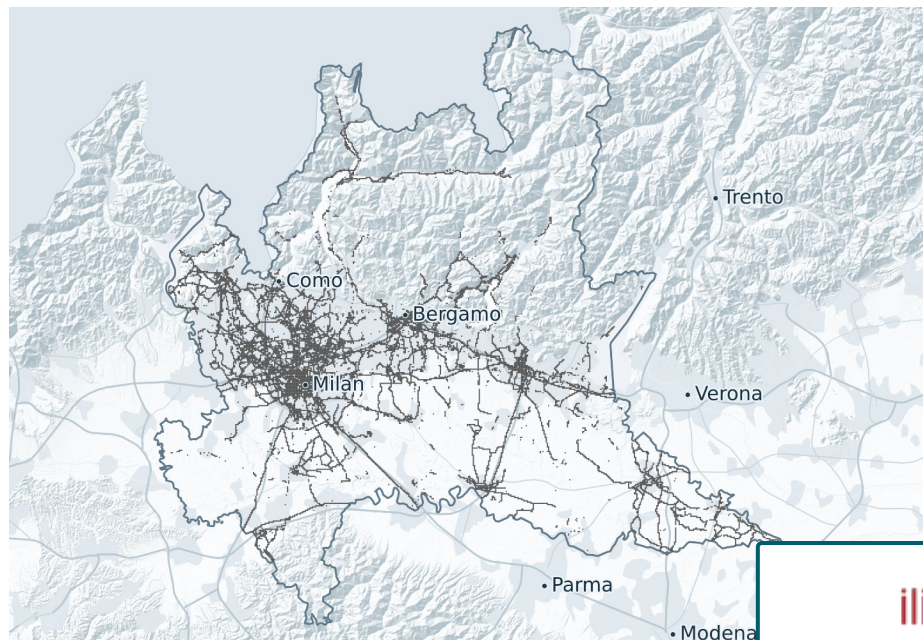
74,95 %

In mobility Pop. Coverage

90,48 %

nPerf Coverage Score

82,71 %



Geographical Coverage

74,63 %

In mobility Pop. Coverage

90,68 %

nPerf Coverage Score

82,66 %



Geographical Coverage

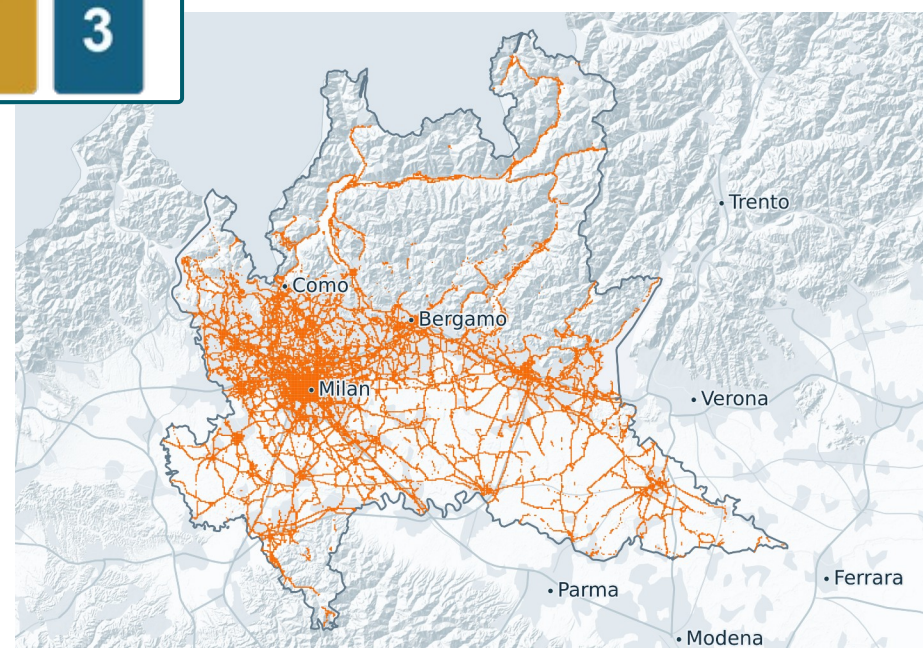
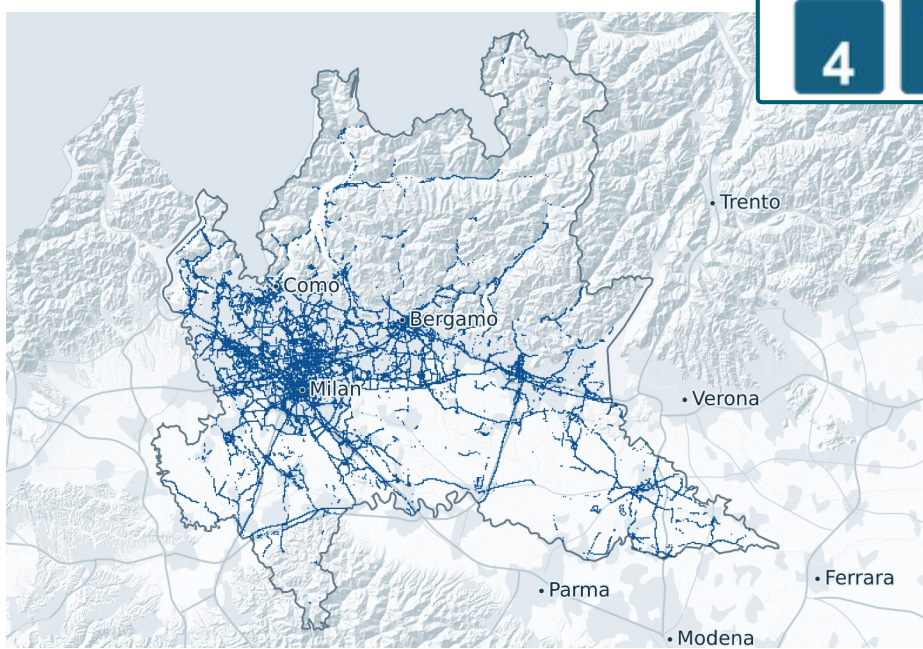
67,63 %

In mobility Pop. Coverage

88,07 %

nPerf Coverage Score

77,85 %



Geographical Coverage

81,65 %

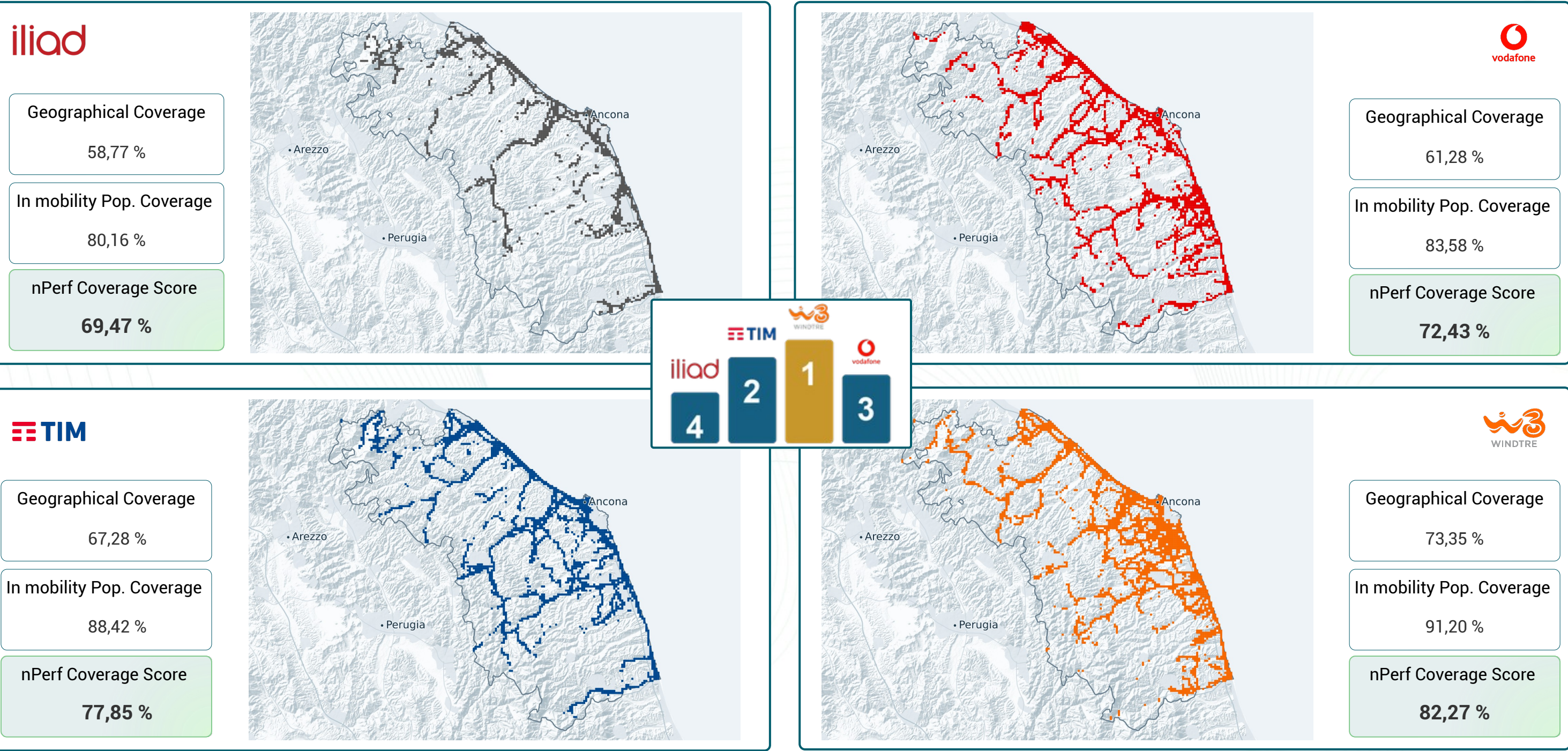
In mobility Pop. Coverage

95,18 %

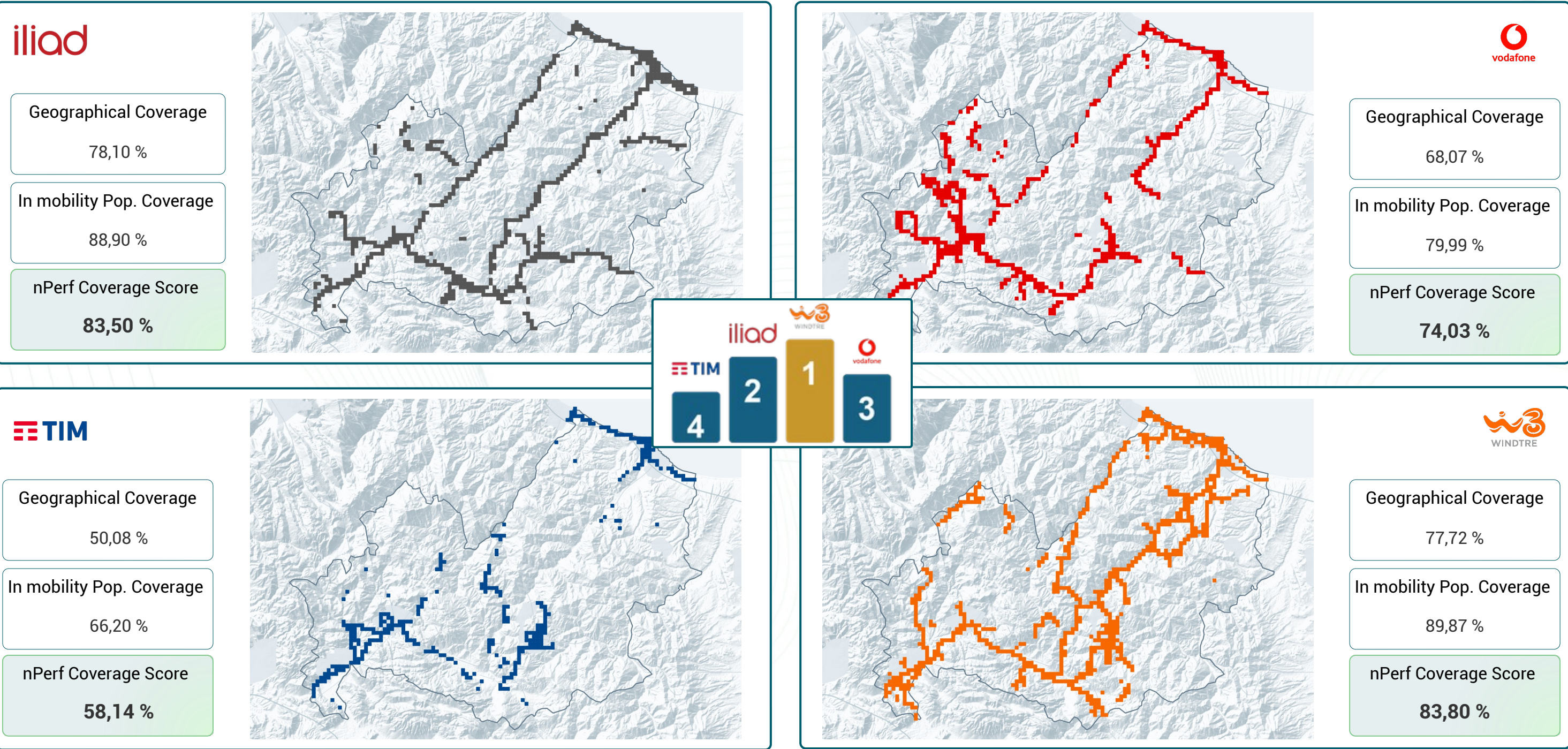
nPerf Coverage Score

88,42 %

5G coverage — Marche



5G coverage — Molise



5G coverage — Piemonte



iliad

Geographical Coverage

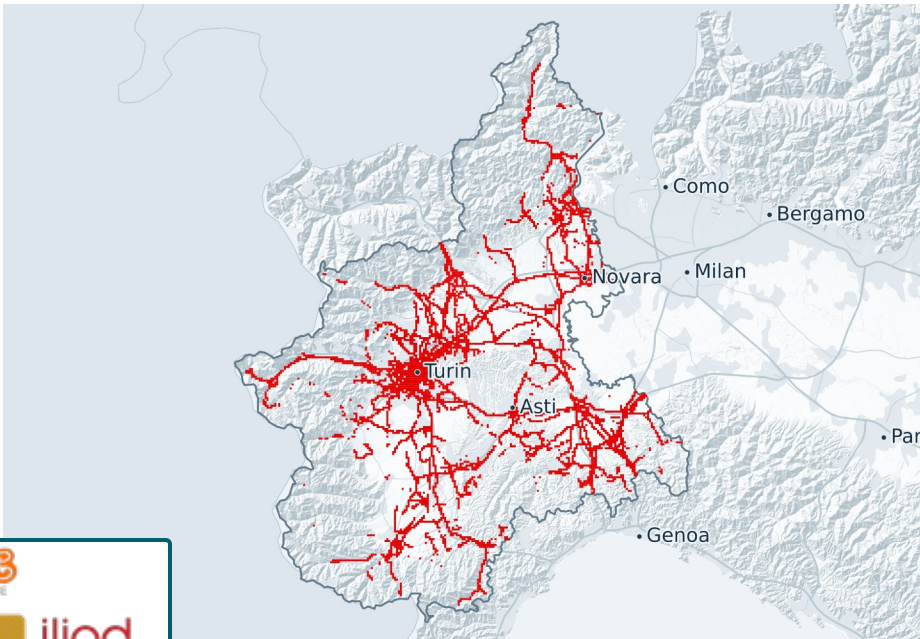
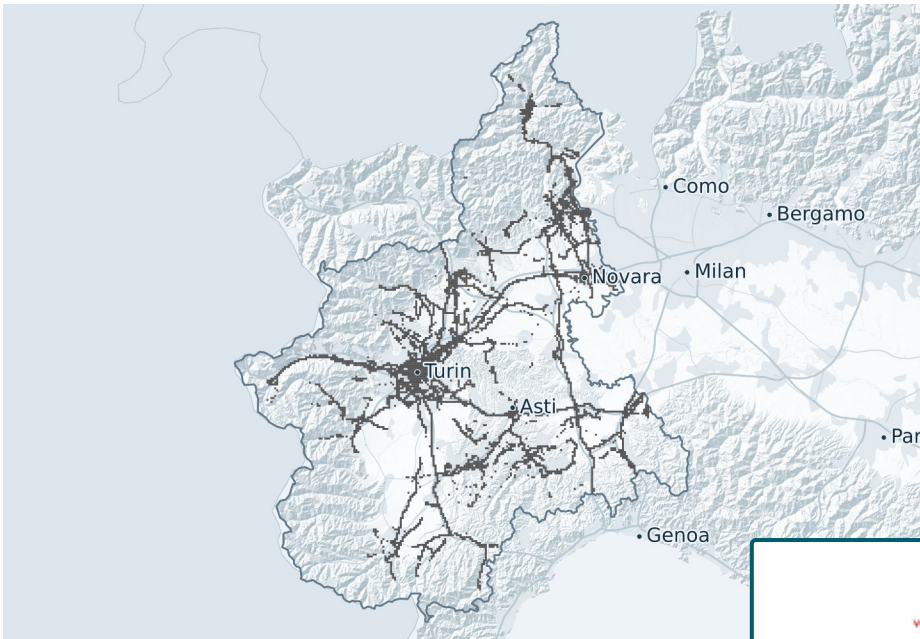
71,04 %

In mobility Pop. Coverage

89,51 %

nPerf Coverage Score

80,27 %



Geographical Coverage

75,30 %

In mobility Pop. Coverage

91,06 %

nPerf Coverage Score

83,18 %



TIM

Geographical Coverage

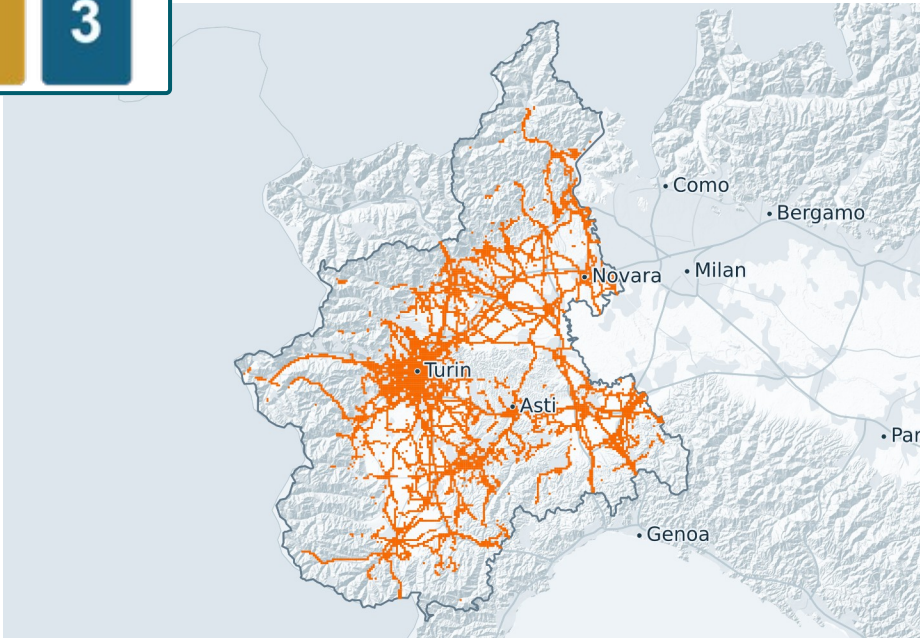
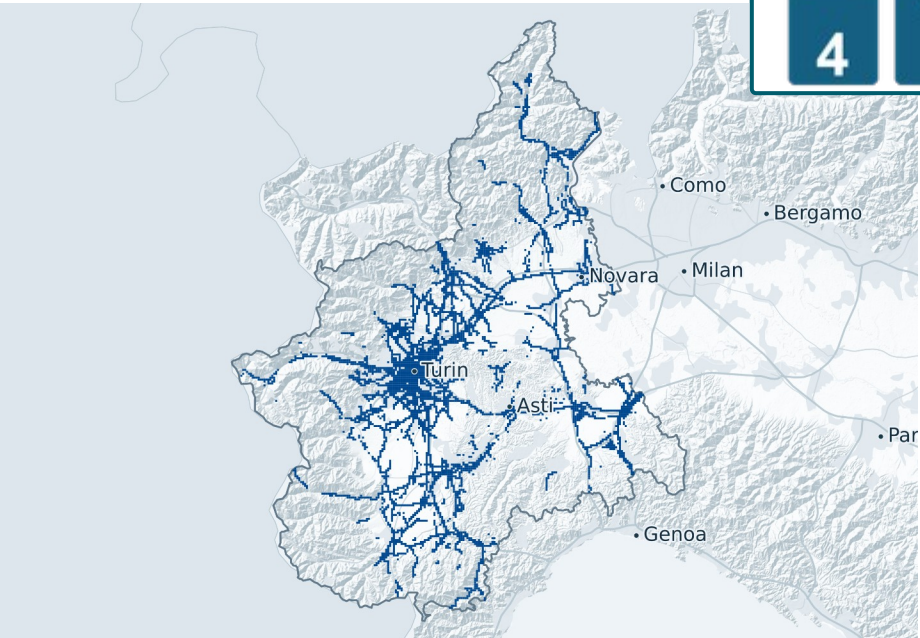
64,78 %

In mobility Pop. Coverage

85,05 %

nPerf Coverage Score

74,92 %



Geographical Coverage

75,29 %

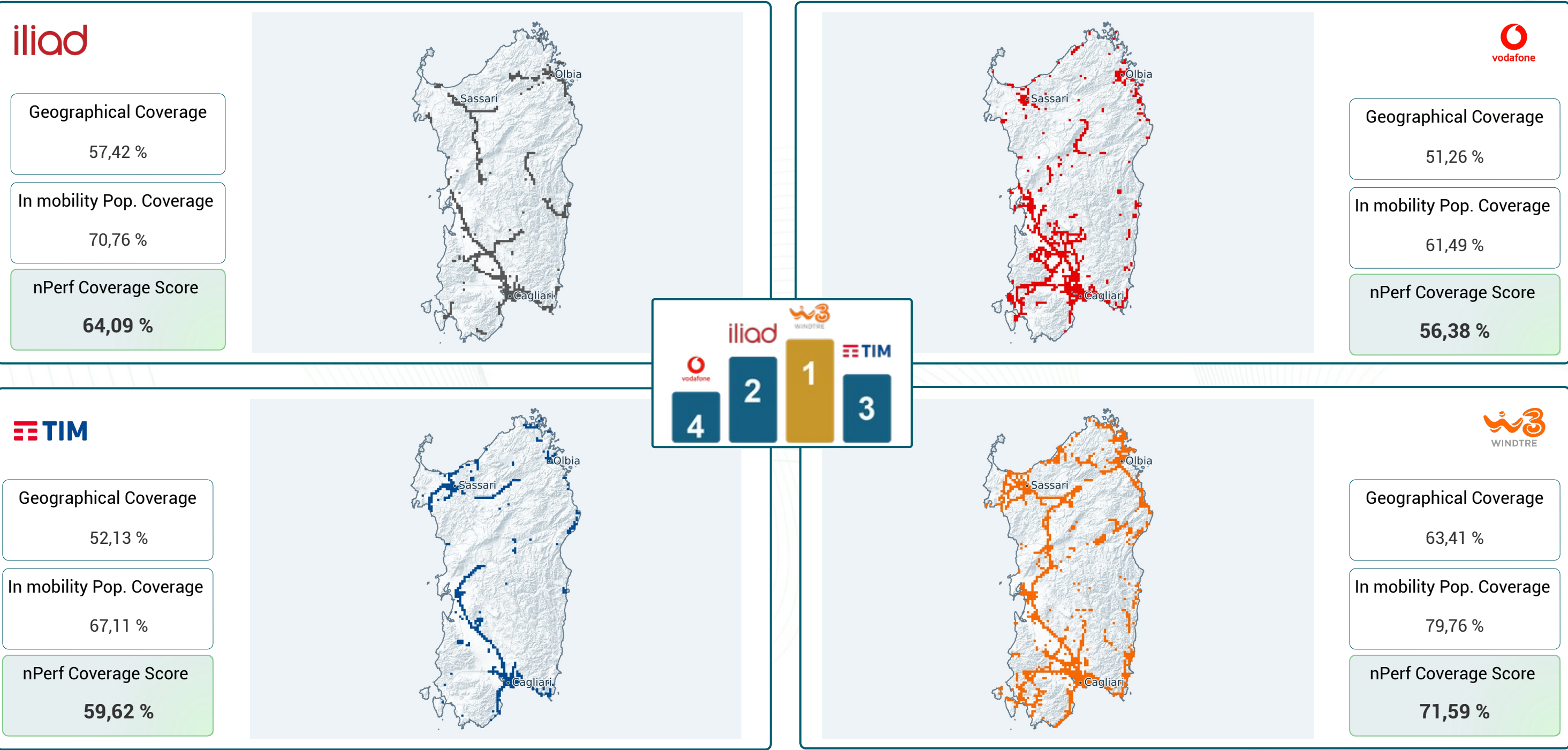
In mobility Pop. Coverage

92,25 %

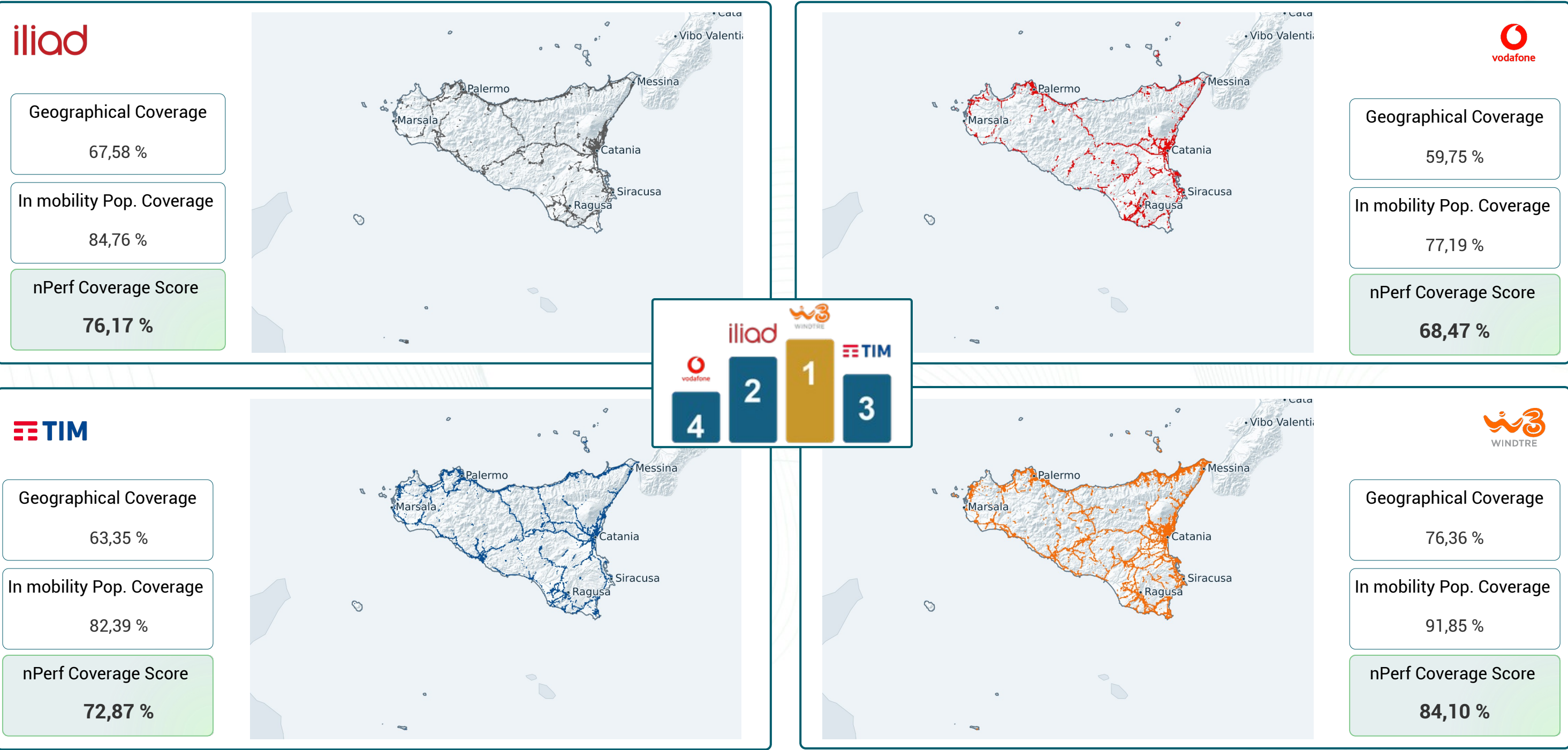
nPerf Coverage Score

83,77 %

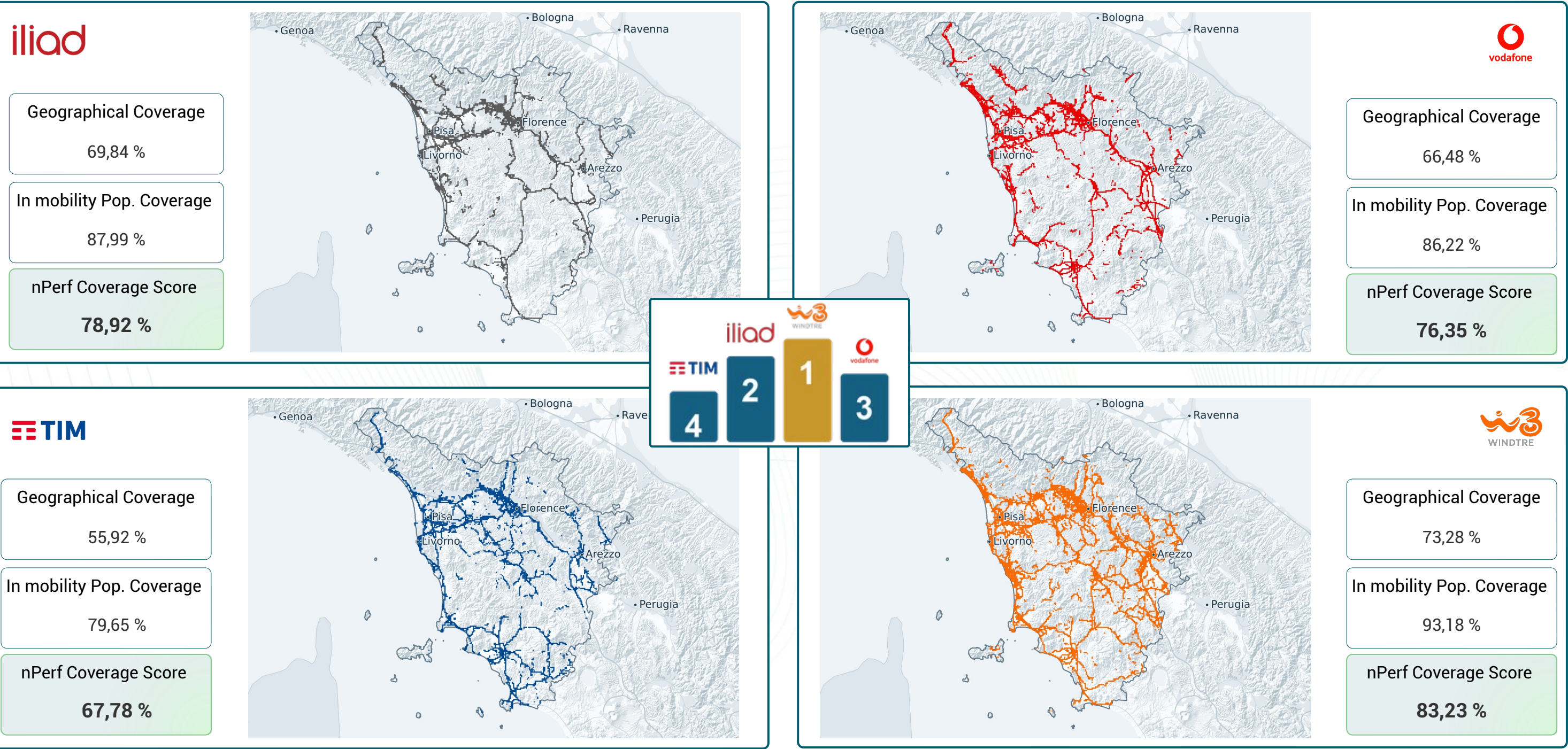
5G coverage — Sardegna



5G coverage — Sicily



5G coverage — Toscana



5G coverage — Trentino-AltoAdige



iliad

Geographical Coverage

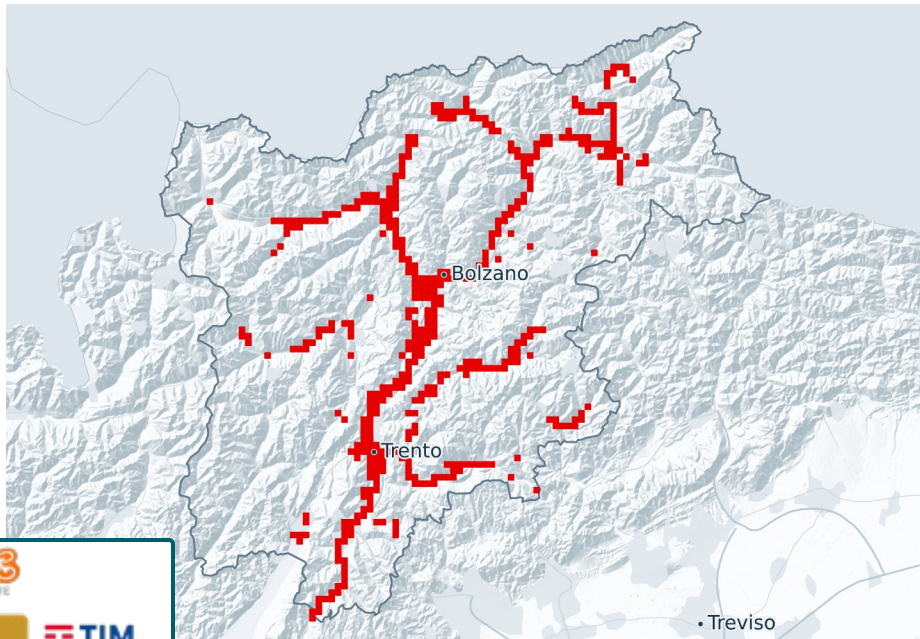
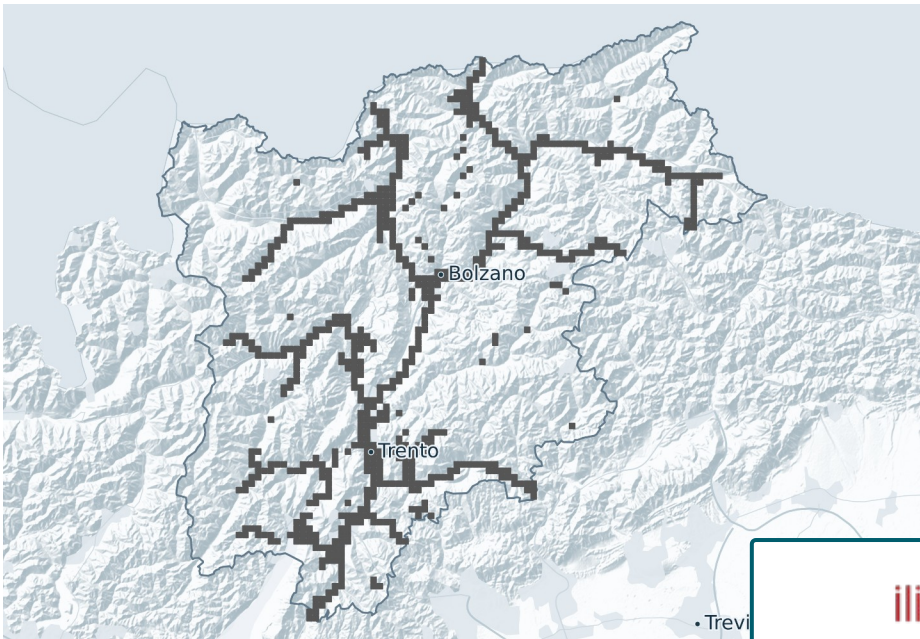
66,64 %

In mobility Pop. Coverage

87,31 %

nPerf Coverage Score

76,98 %



Geographical Coverage

49,63 %

In mobility Pop. Coverage

73,56 %

nPerf Coverage Score

61,60 %



TIM

Geographical Coverage

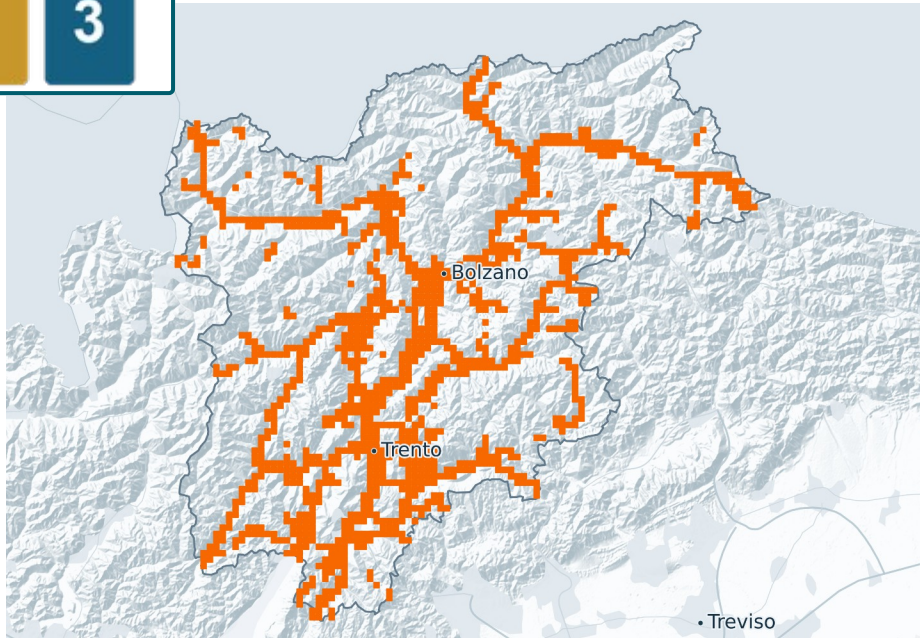
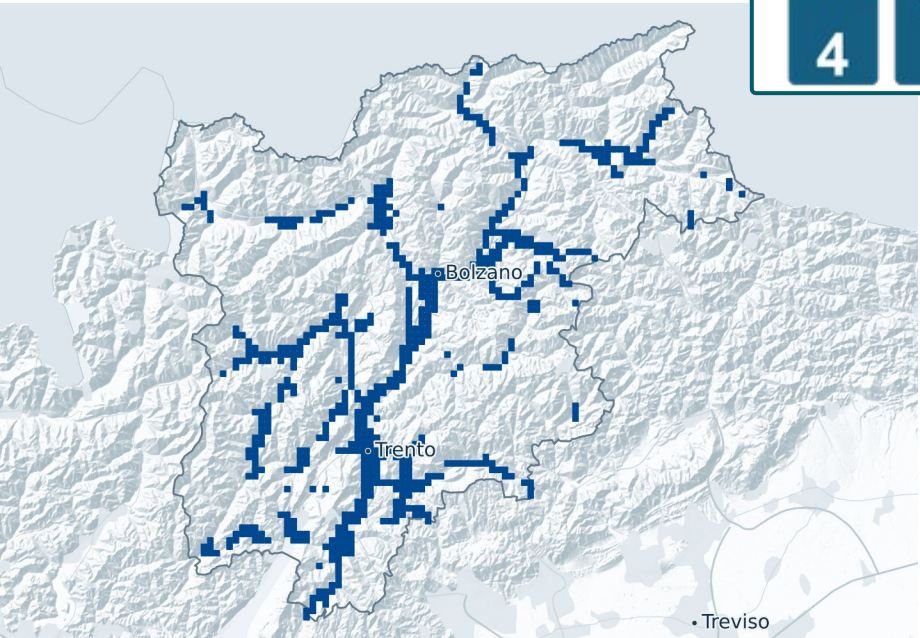
64,22 %

In mobility Pop. Coverage

82,19 %

nPerf Coverage Score

73,20 %



Geographical Coverage

76,71 %

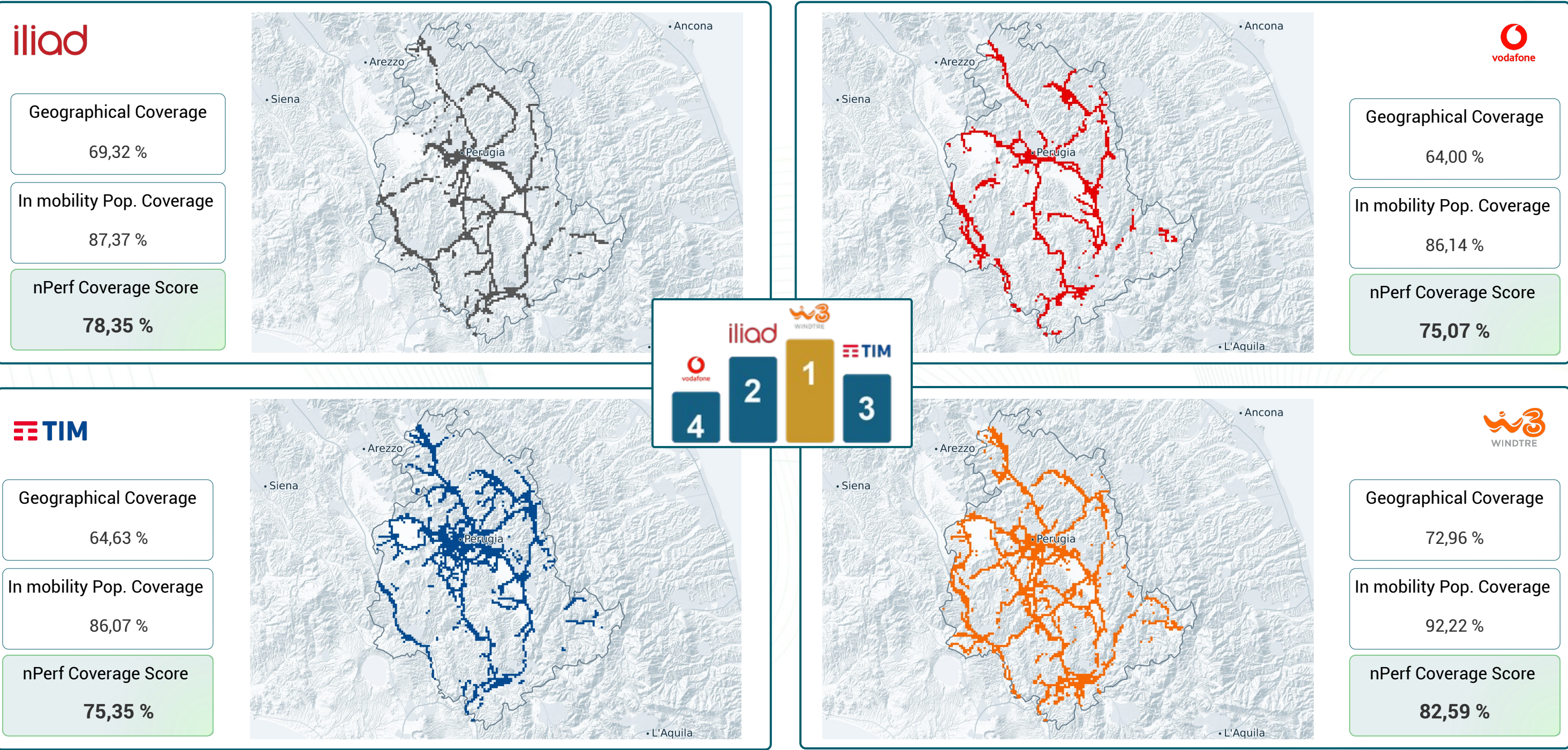
In mobility Pop. Coverage

94,26 %

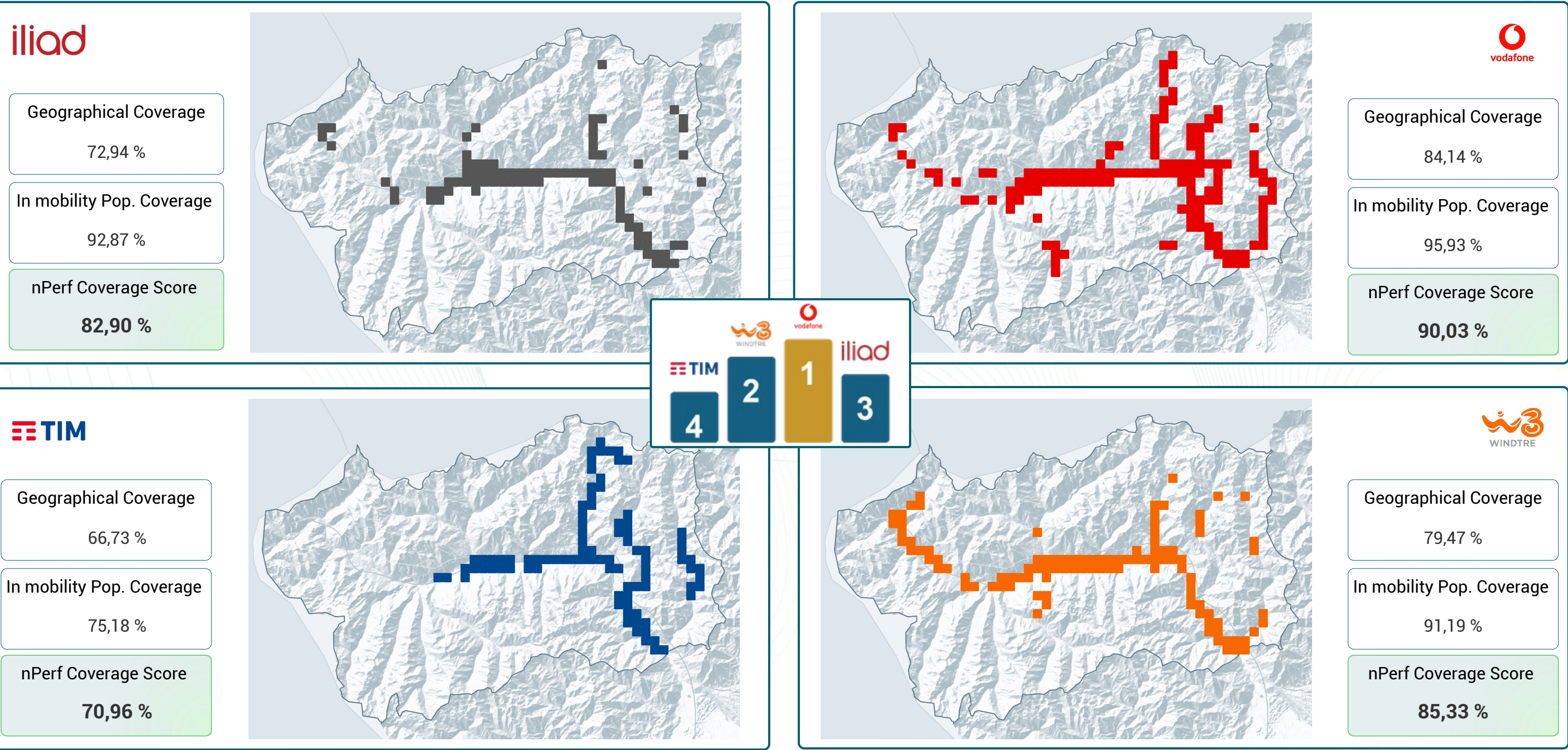
nPerf Coverage Score

85,48 %

5G coverage — Umbria



5G coverage — Valled'Aosta



5G coverage — Veneto

