

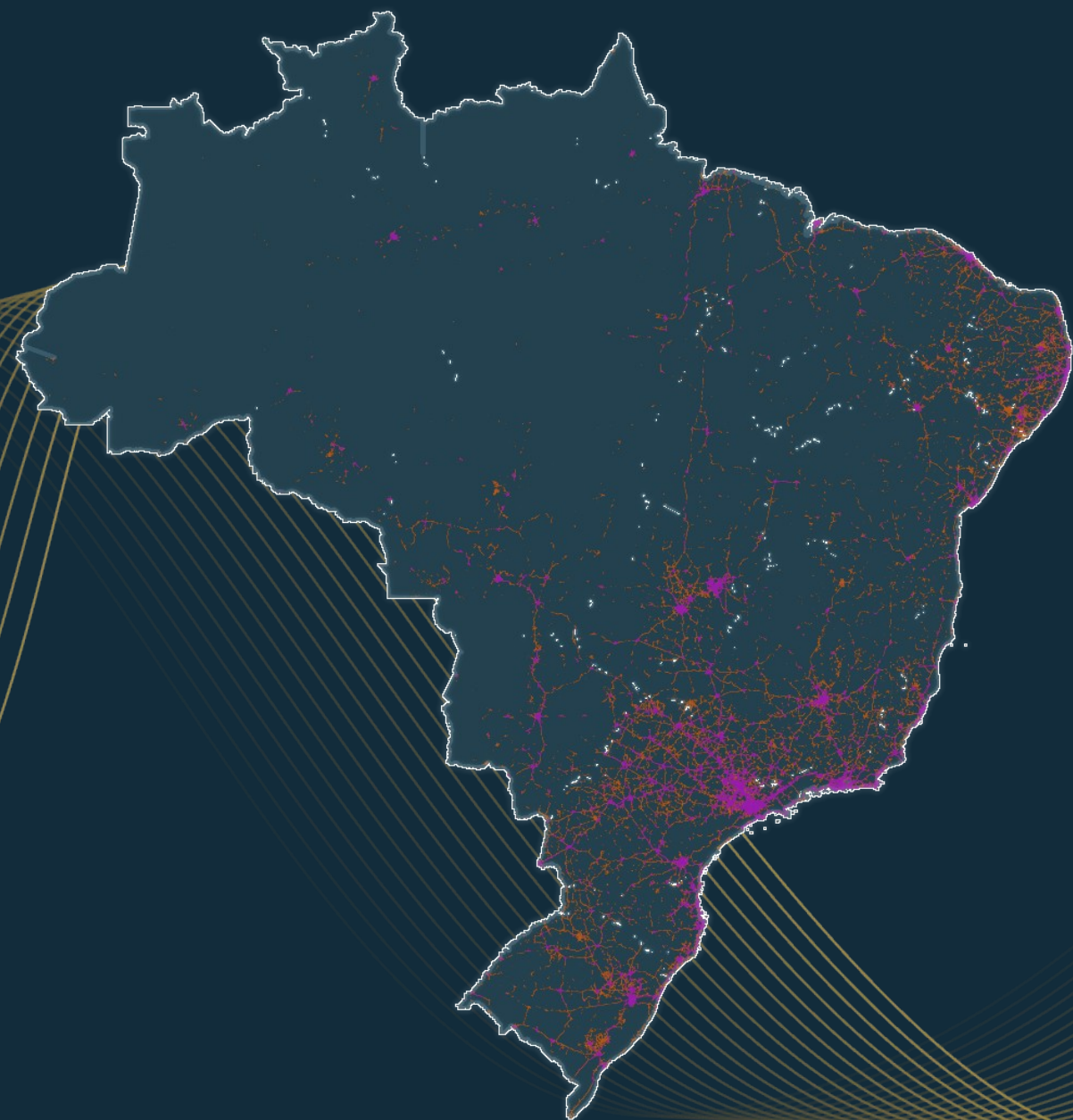
September 2026



Barometer of mobile coverage in Brazil

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.

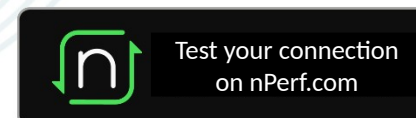
 **26Md+** coverage scans in total.

 **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 Vivo enjoyed the best 4G coverage in 2026 in Brazil.

Mobile coverage rate in Brazil			
	Claro	TIM	<u>Vivo</u>
Geographical Coverage Rate	64.25	68.45	69.05
Population Coverage Rate	90.04	91.00	91.81
nPerf Coverage Score	77.15	79.72	80.43

Source : nPerf.com



Best Mobile coverage in Brazil



Source : nPerf.com

nPerf Podium



Source : nPerf.com

4. National 4G coverage maps

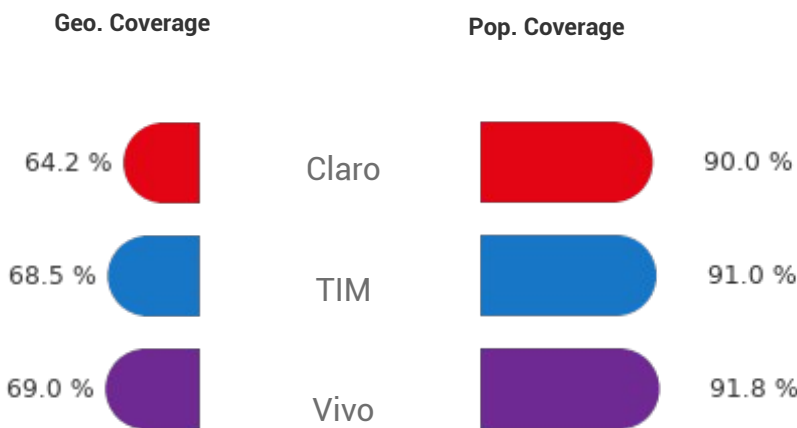


nPerf Coverage Score



Source : nPerf.com

Coverage Indicators



Source : nPerf.com

National Coverage



Claro

Geographical Coverage Rate (%) 64.25

Population Coverage Rate (%) 90.04

nPerf Coverage Score (%) 77.15



National 4G coverage maps for TIM



TIM

Geographical Coverage Rate (%) 68.45

Population Coverage Rate (%) 91.00

nPerf Coverage Score (%) 79.72



Vivo

Geographical Coverage Rate (%) 69.05

Population Coverage Rate (%) 91.81

nPerf Coverage Score (%) 80.43



5. Executive Summary 5G



The subscribers of Vivo enjoyed the best 5G coverage in 2026 in Brazil.

Mobile coverage rate in Brazil

	Claro	TIM	Vivo
Geographical Coverage Rate	27.97	32.95	34.96
Population Coverage Rate	63.05	68.88	73.23
nPerf Coverage Score	45.51	50.91	54.10

Source : nPerf.com



Best Mobile coverage in Brazil



Source : nPerf.com

nPerf Podium



Source : nPerf.com

6. National 5G coverage maps

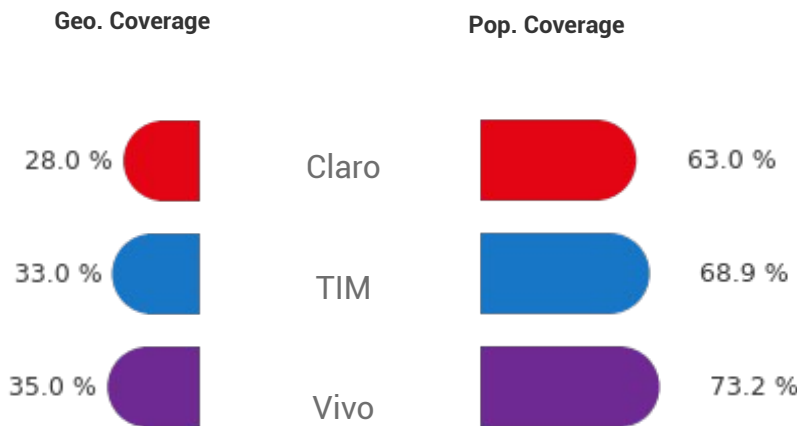


nPerf Coverage Score



Source : nPerf.com

Coverage Indicators



Source : nPerf.com

National Coverage



Claro

Geographical Coverage Rate (%) 27.97

Population Coverage Rate (%) 63.05

nPerf Coverage Score (%) 45.51



National 5G coverage maps for TIM



TIM

Geographical Coverage Rate (%) 32.95

Population Coverage Rate (%) 68.88

nPerf Coverage Score (%) 50.91



National 5G coverage maps for Vivo



Vivo

Geographical Coverage Rate (%) 34.96

Population Coverage Rate (%) 73.23

nPerf Coverage Score (%) 54.10



7. Regional 4G coverage: Methodology



Regions	Measurements	Device count	Measurements per operator
Sudeste	80 953 764	945 863	56% 32% 13%
Nordeste	24 631 336	337 035	51% 30% 19%
Centro-Oeste	18 264 853	190 644	28% 60% 13%
Sul	15 024 141	269 030	49% 27% 24%
Norte	6 926 474	65 878	58% 25% 17%



Regional 4G coverage



nPerf Coverage Score

Centro-Oeste



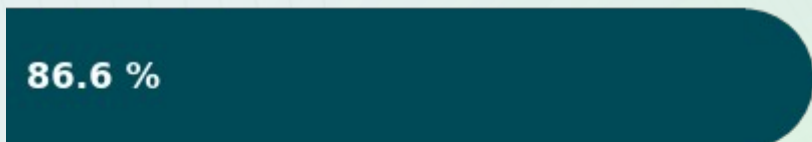
Nordeste



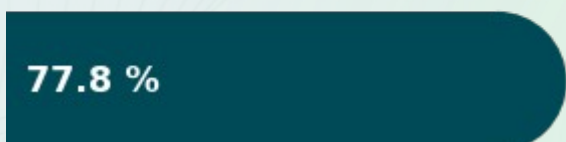
Norte



Sudeste



Sul



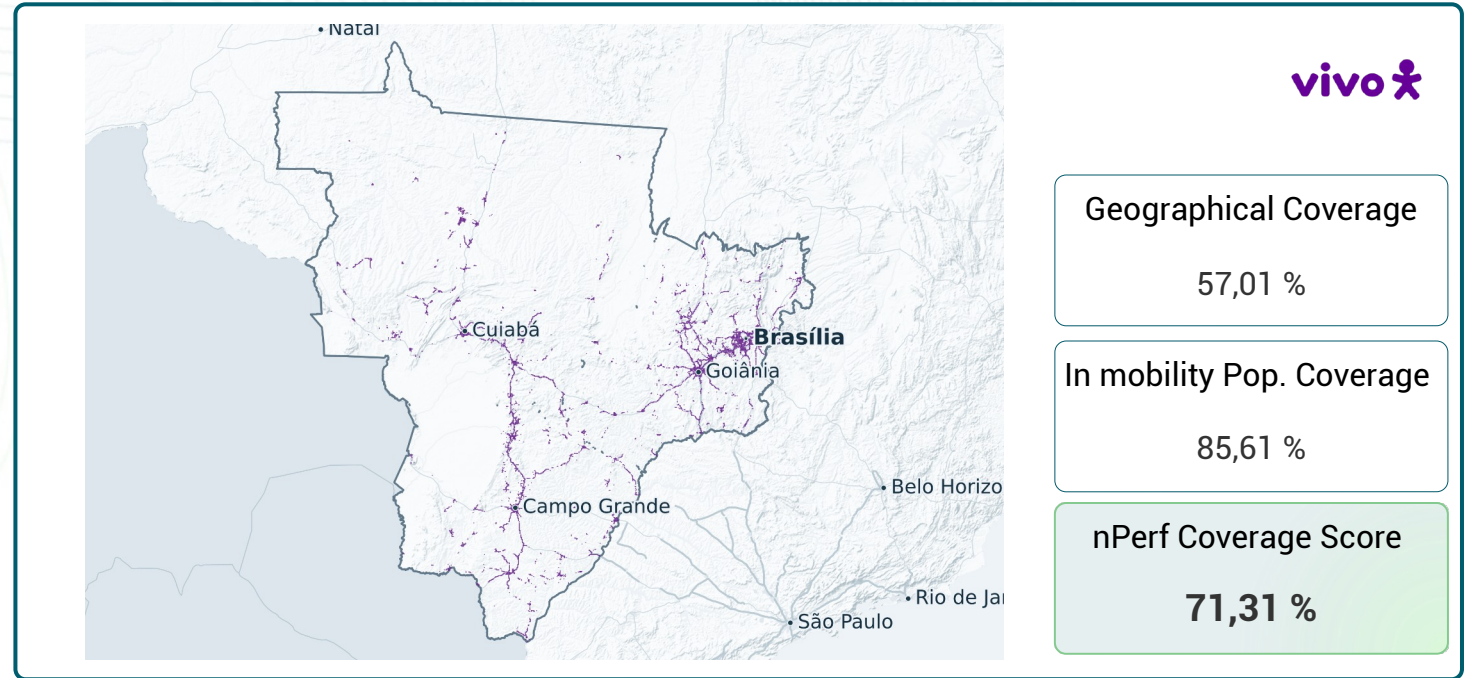
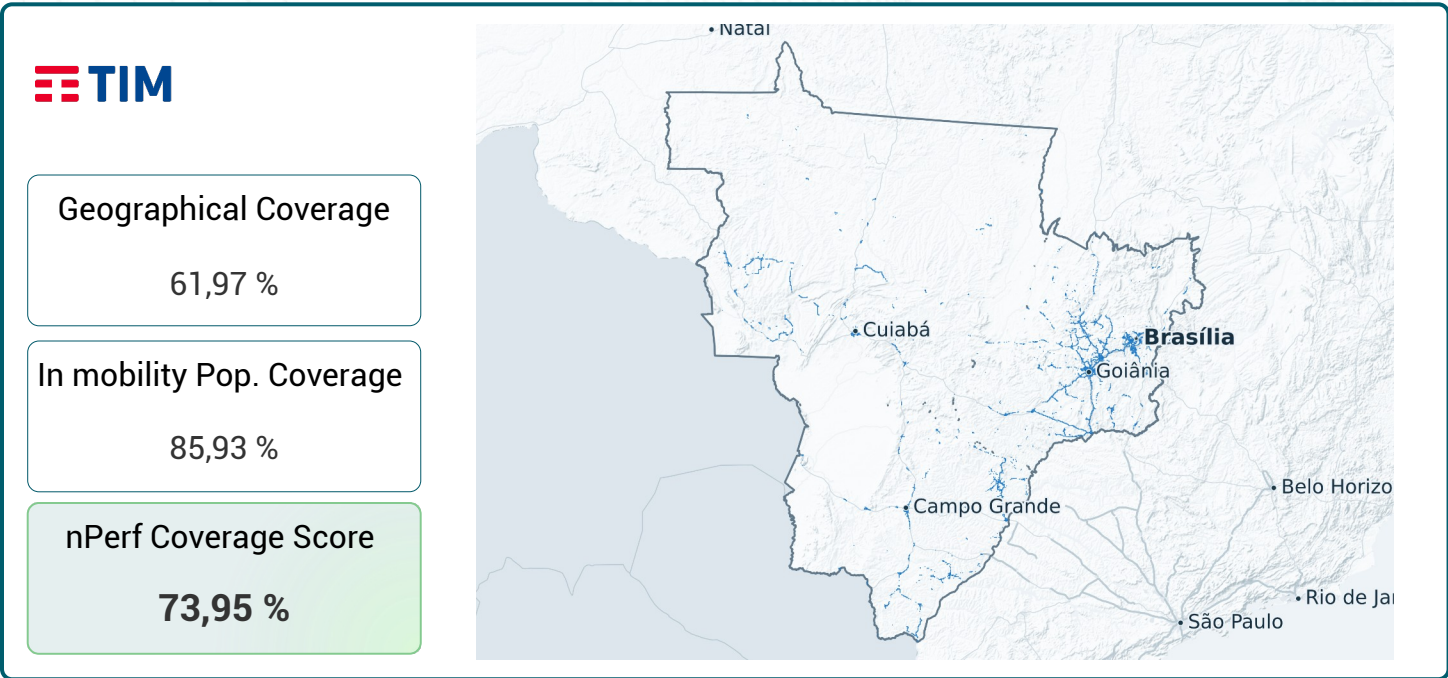
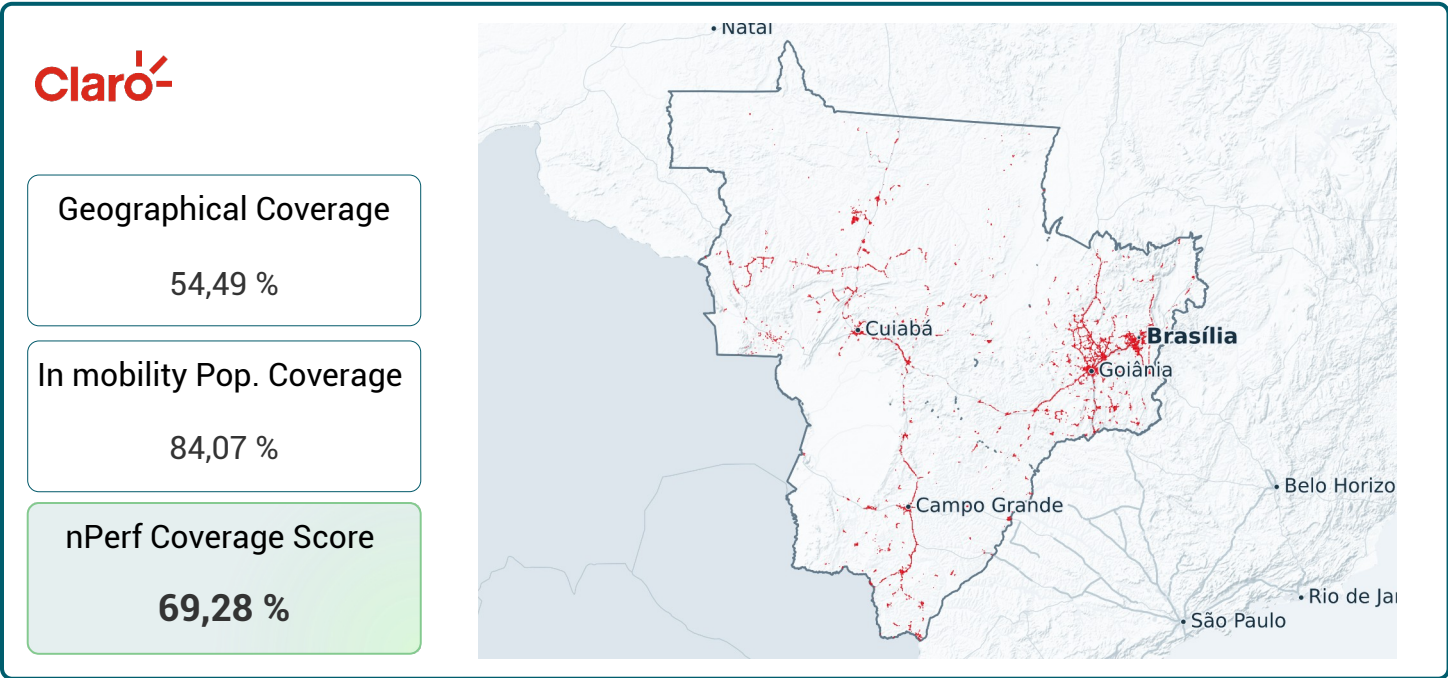
Source : nPerf.com

Regional Winner



Source : nPerf.com

4G coverage — Centro-Oeste



4G coverage — Nordeste



Claró

Geographical Coverage

54,33 %

In mobility Pop. Coverage

83,05 %

nPerf Coverage Score

68,69 %



TIM

Geographical Coverage

59,45 %

In mobility Pop. Coverage

84,52 %

nPerf Coverage Score

71,99 %

vivo

Geographical Coverage

62,76 %

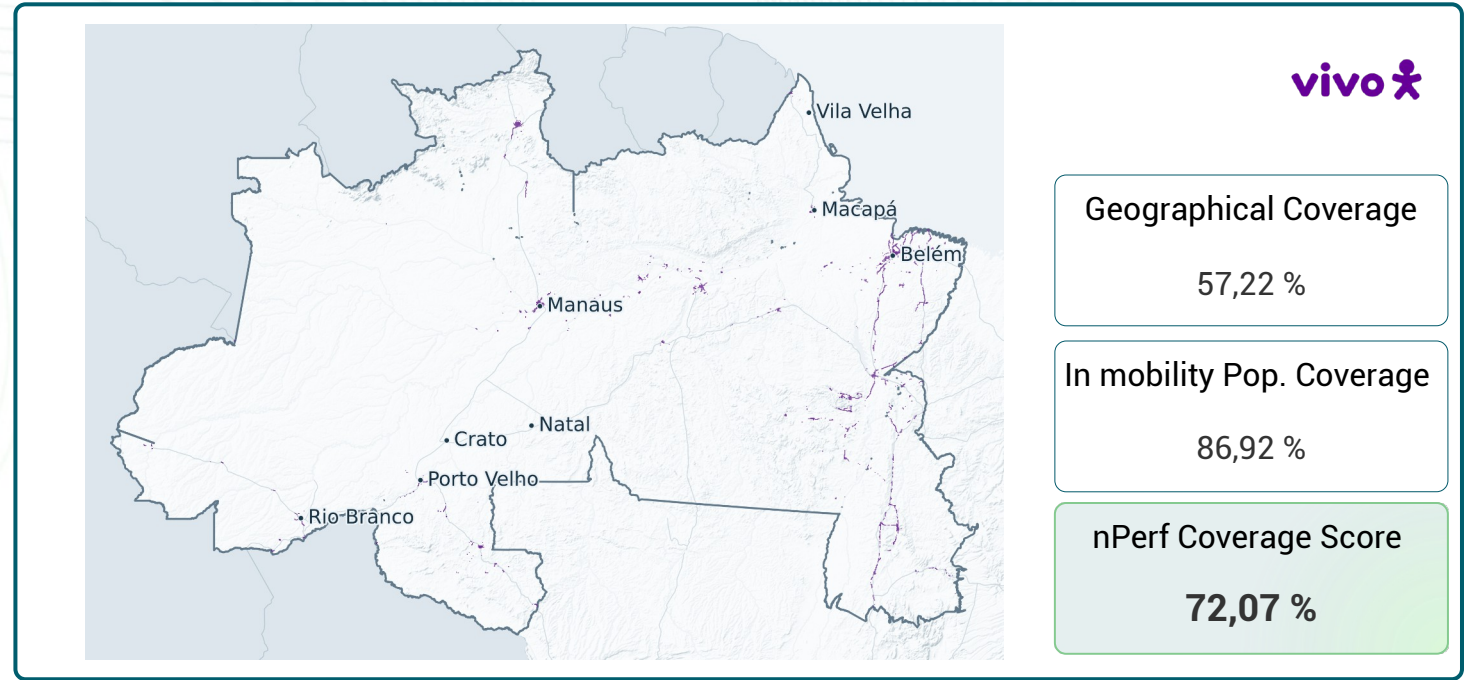
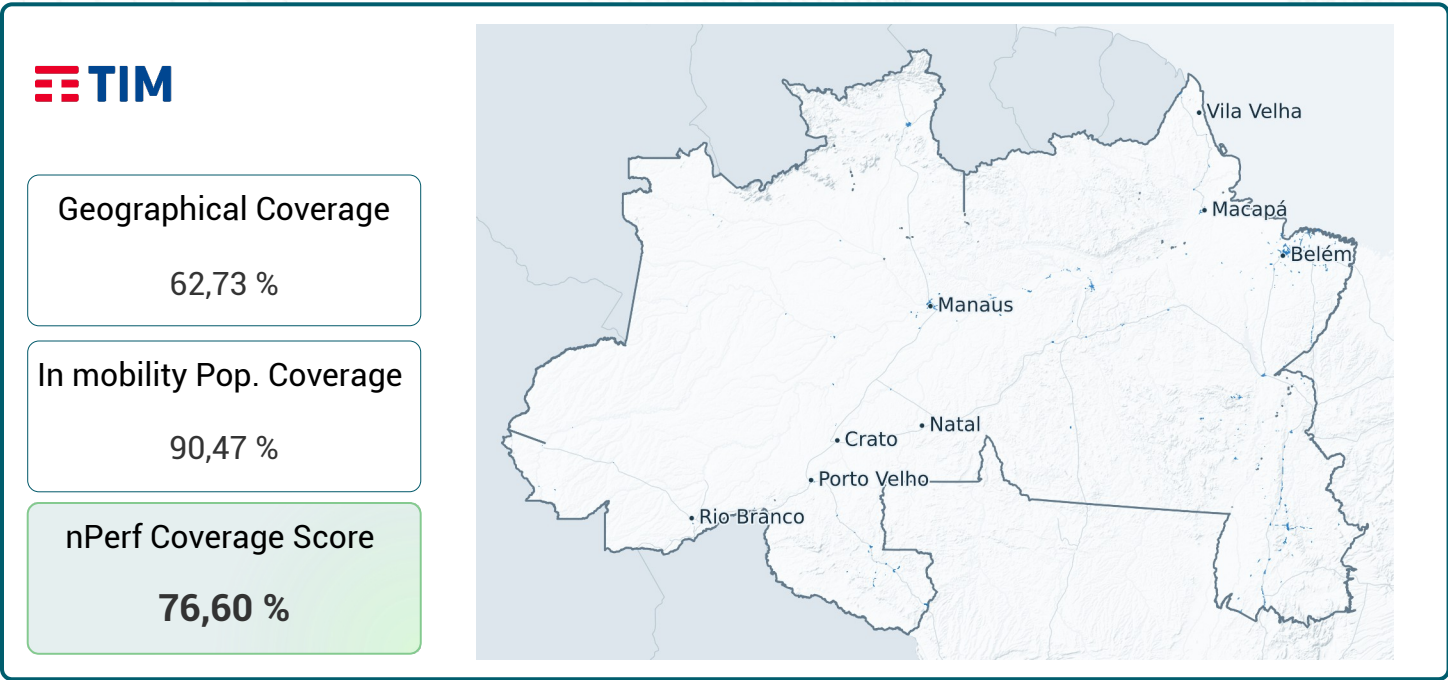
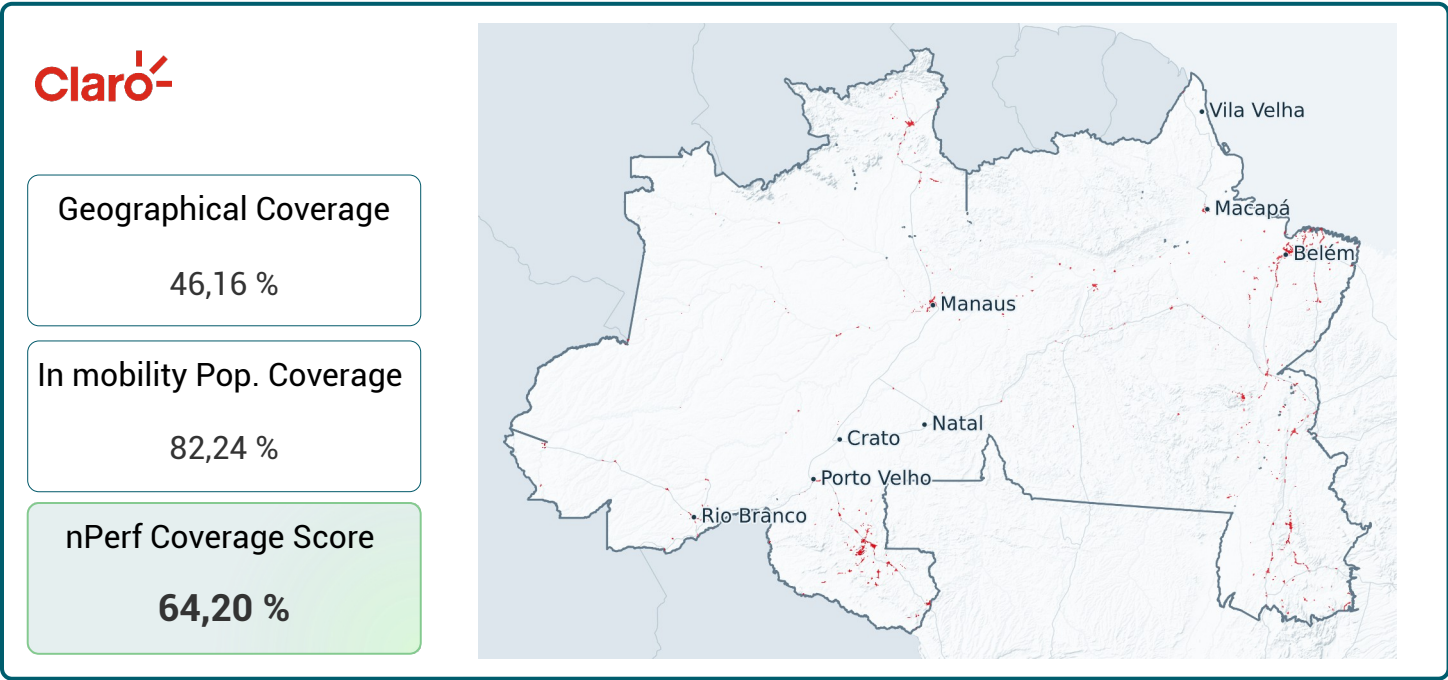
In mobility Pop. Coverage

86,86 %

nPerf Coverage Score

74,81 %

4G coverage — Norte



4G coverage — Sudeste



Claro

Geographical Coverage

77,87 %

In mobility Pop. Coverage

95,09 %

nPerf Coverage Score

86,48 %



TIM

Geographical Coverage

78,76 %

In mobility Pop. Coverage

95,09 %

nPerf Coverage Score

86,92 %

vivo

Geographical Coverage

76,87 %

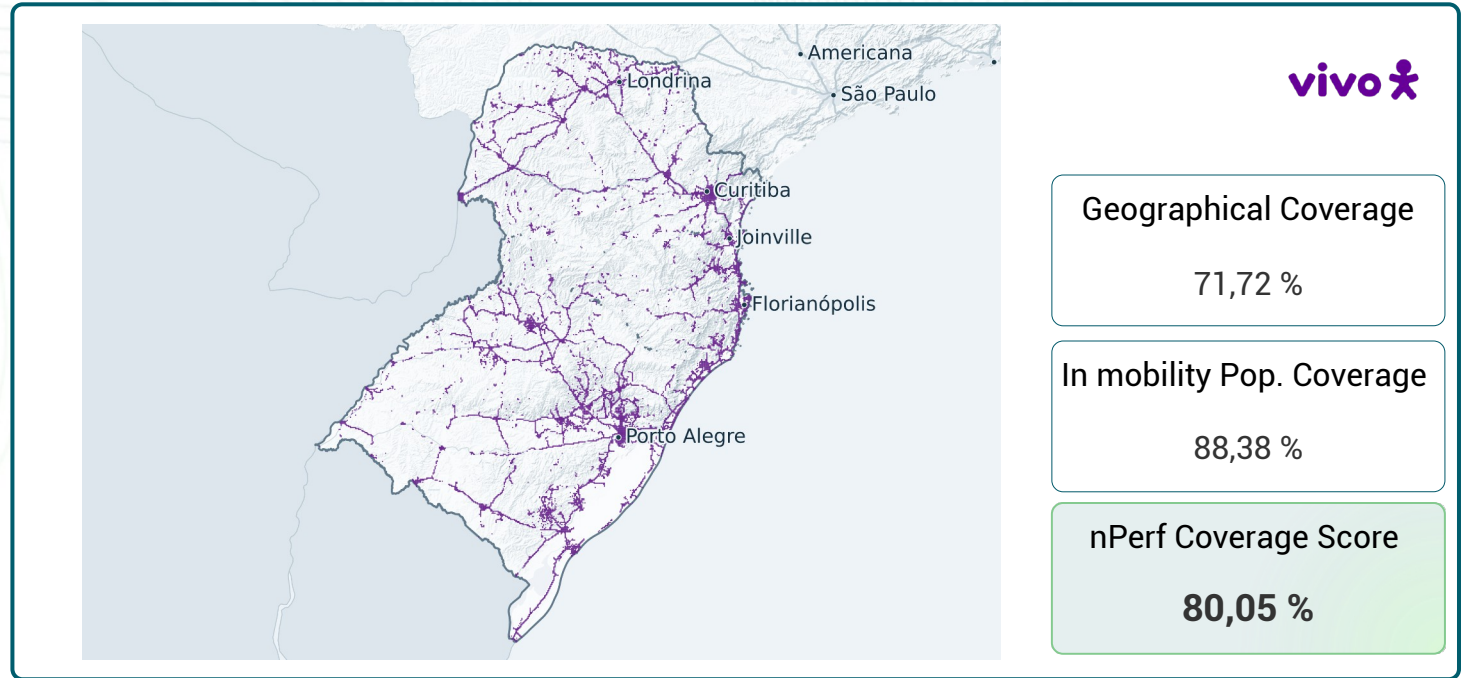
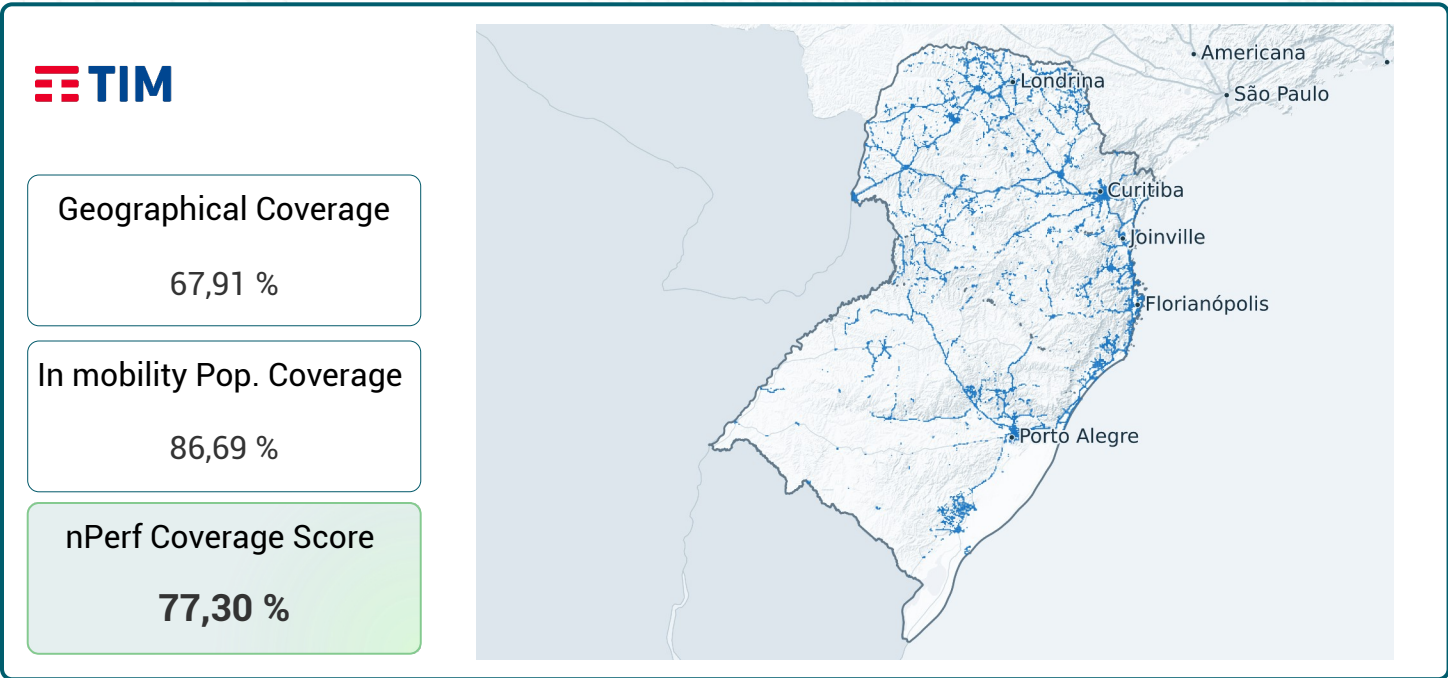
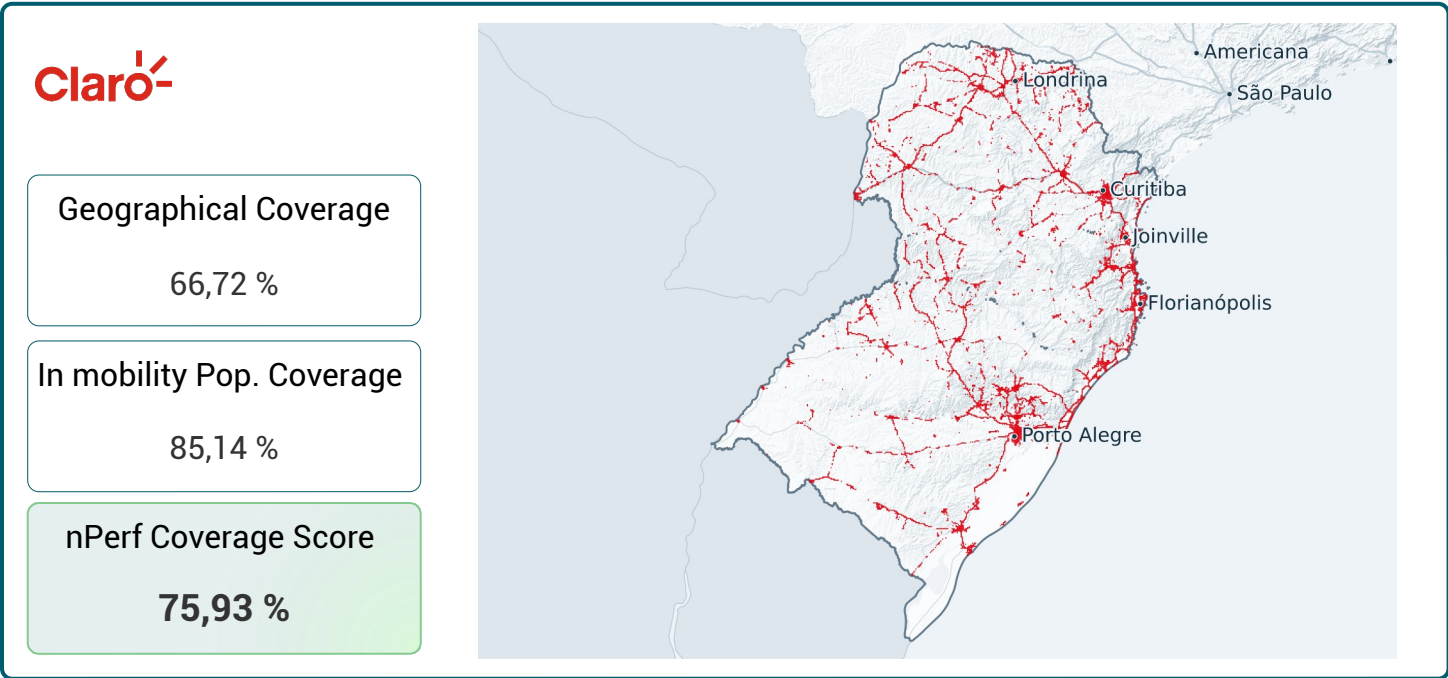
In mobility Pop. Coverage

95,69 %

nPerf Coverage Score

86,28 %

4G coverage — Sul



8. Regional 5G coverage: Methodology



Regions	Measurements	Device count	Measurements per operator
Sudeste	31 226 574	687 508	56% 31% 13%
Nordeste	8 689 638	148 239	54% 33% 13%
Centro-Oeste	6 606 244	122 004	28% 59% 14%
Sul	4 992 505	115 609	50% 24% 26%
Norte	2 576 531	40 425	54% 23% 23%



Regional 5G coverage



nPerf Coverage Score

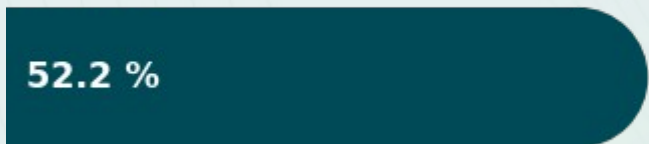
Centro-Oeste



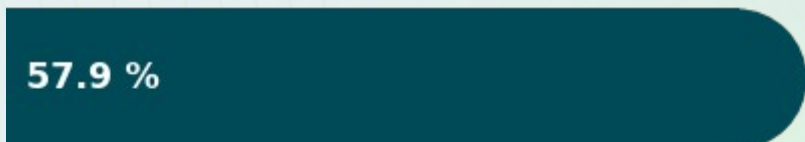
Nordeste



Norte



Sudeste



Sul



Source : nPerf.com

Regional Winner



Source : nPerf.com

5G coverage — Centro-Oeste



Claro

Geographical Coverage

23,66 %

In mobility Pop. Coverage

61,98 %

nPerf Coverage Score

42,82 %



TIM

Geographical Coverage

26,99 %

In mobility Pop. Coverage

64,39 %

nPerf Coverage Score

45,69 %

vivo

Geographical Coverage

29,17 %

In mobility Pop. Coverage

67,56 %

nPerf Coverage Score

48,37 %

5G coverage — Nordeste



Claró

Geographical Coverage

21,72 %

In mobility Pop. Coverage

56,43 %

nPerf Coverage Score

39,07 %



TIM

Geographical Coverage

24,25 %

In mobility Pop. Coverage

59,18 %

nPerf Coverage Score

41,71 %

vivo

Geographical Coverage

26,11 %

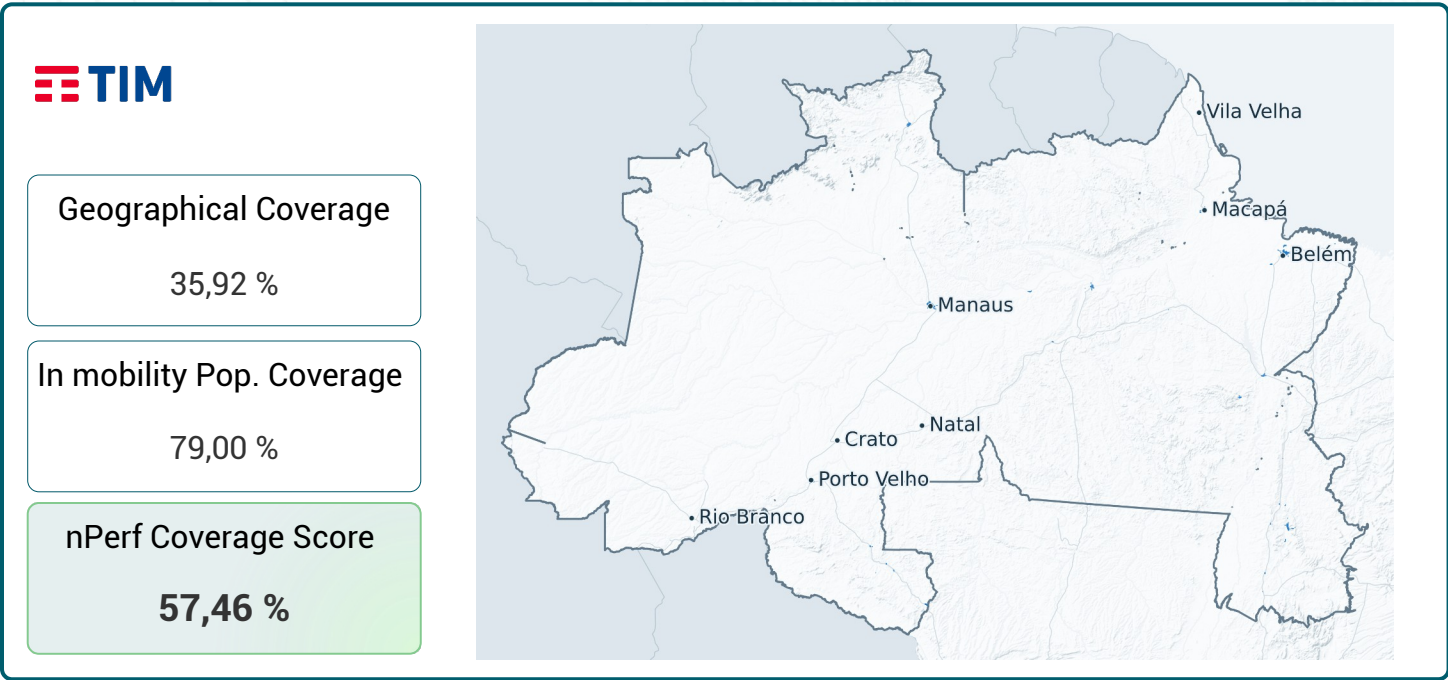
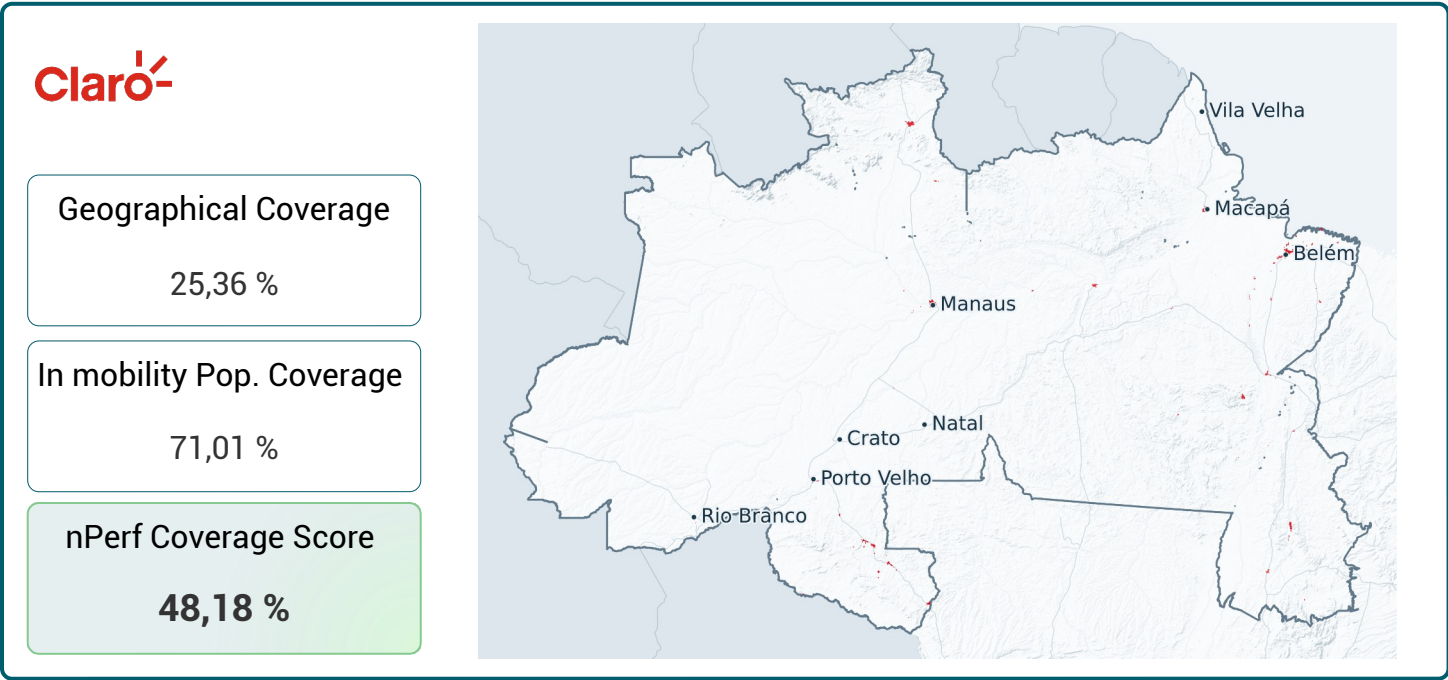
In mobility Pop. Coverage

63,06 %

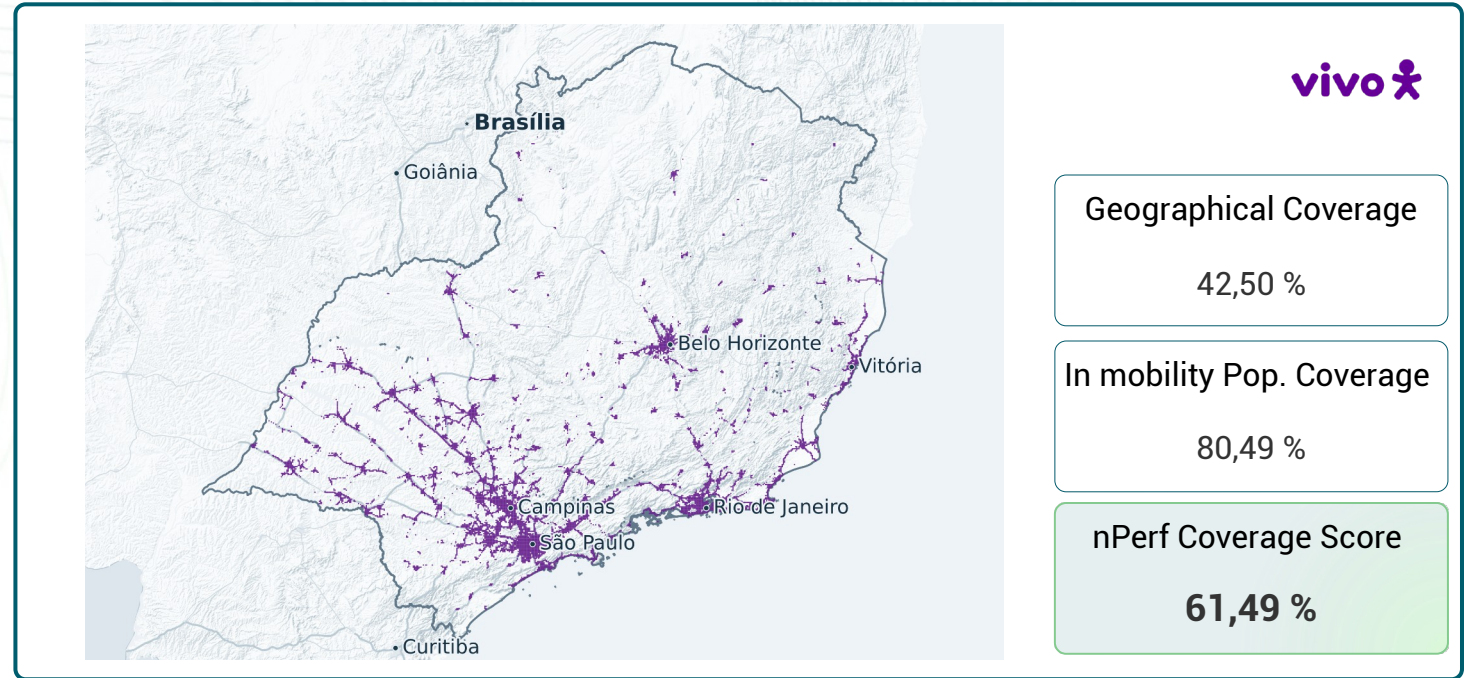
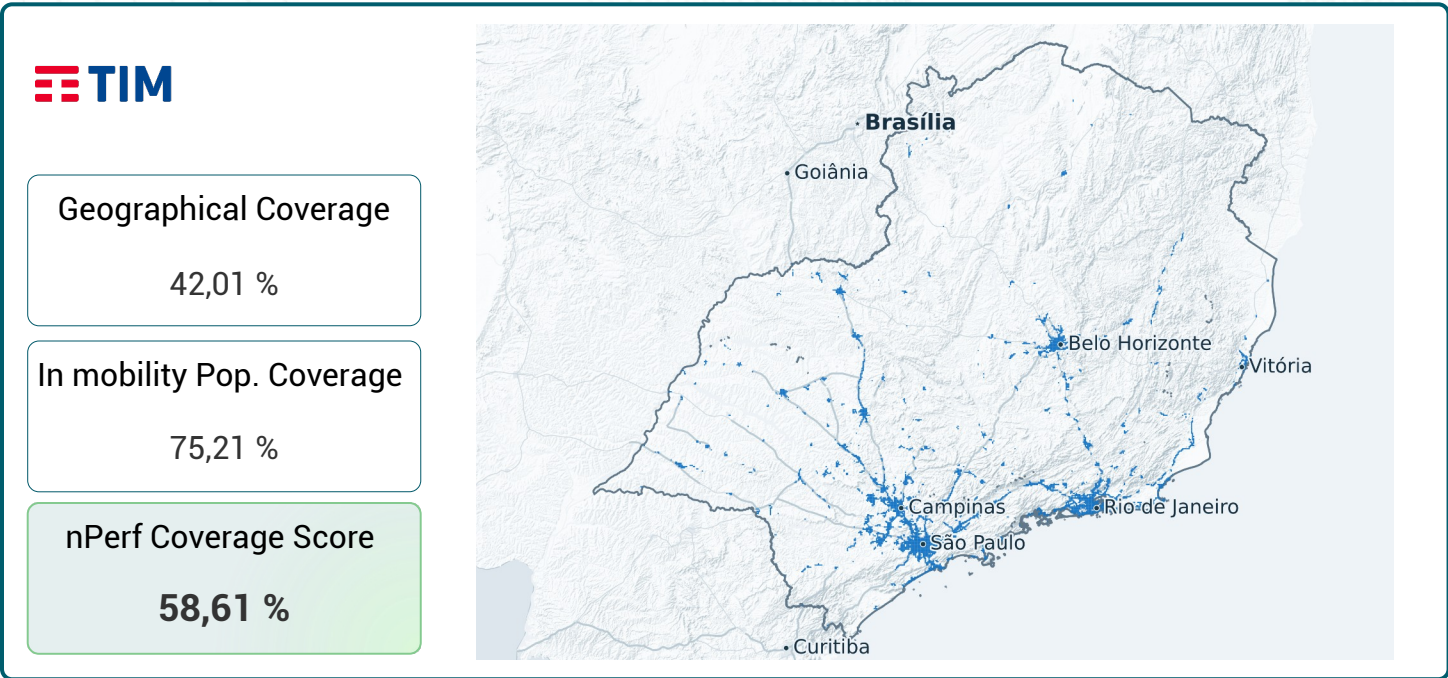
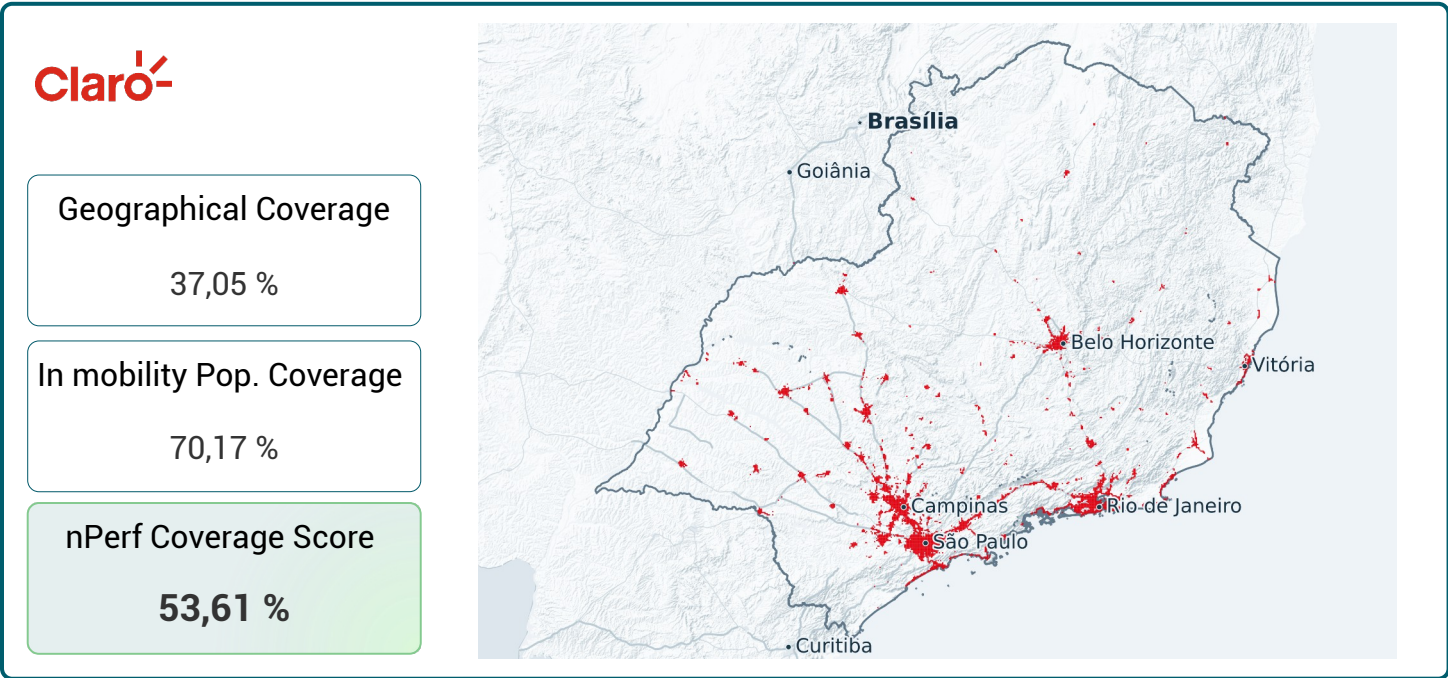
nPerf Coverage Score

44,59 %

5G coverage — Norte



5G coverage — Sudeste



5G coverage — Sul

