

Better connections. Start with better evidence.

Where should Nigeria investigate and improve connectivity next? We separate observed performance problems from places where the measurement evidence is too thin to make that diagnosis.

234

LGAs with no observations

51.1m

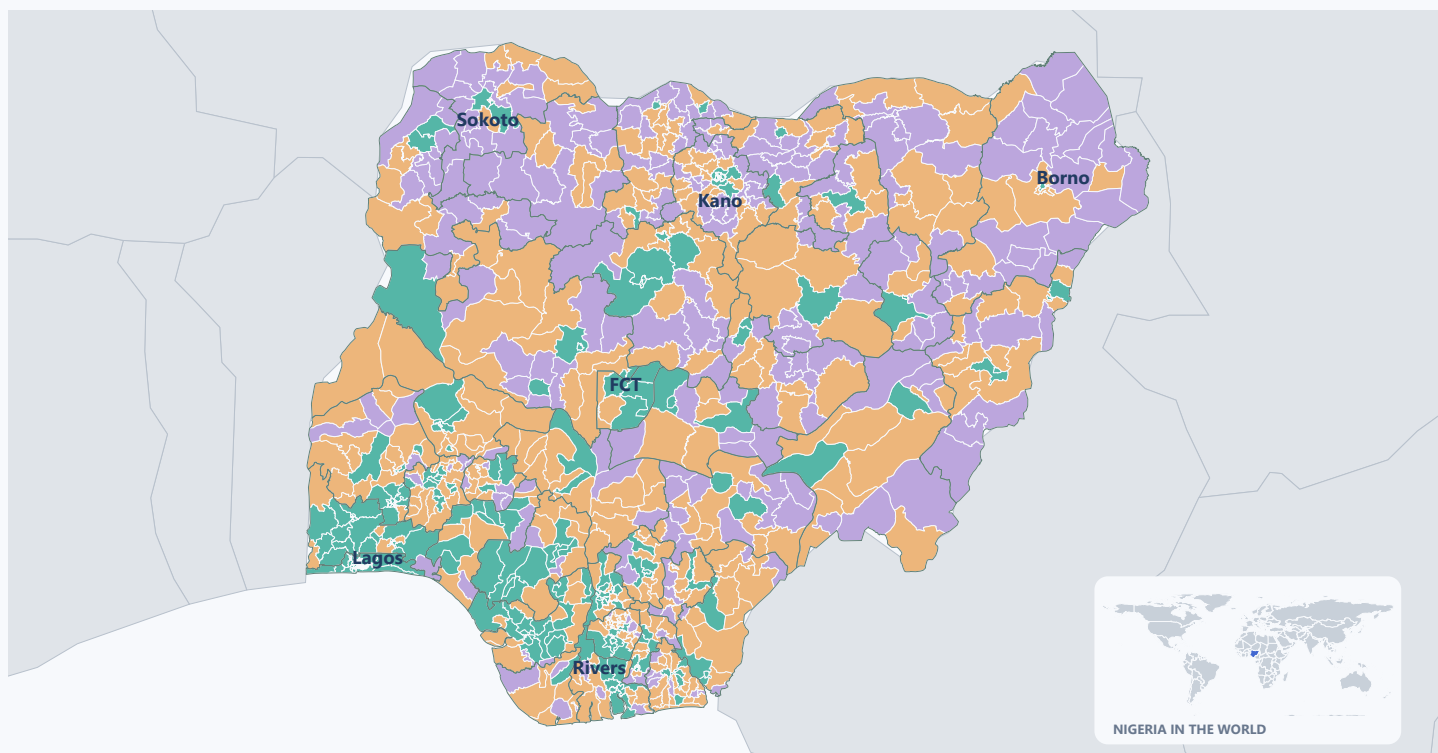
Modelled residents in those LGAs

207

LGAs meeting sample rule

THE NATIONAL EVIDENCE MAP

Observation support in the supplied Ookla extract



Supported: ≥ 5 tiles and ≥ 20 tests

Limited sample

No observations

Missing observations are not proof of absent service. Support describes the supplied extract, not population representativeness. Nigeria evidence uses 774 detailed LGA boundaries.

Equal-area projection. Grey countries: Natural Earth 1:110m reference geography only; no connectivity assessment.

FROM EVIDENCE TO ACTION

Find a place; inspect its sample support; compare its neighbours; trace the source-linked score. Stronger evidence supports performance investigation. Thin evidence calls for new measurements before investment decisions.

[Ookla / supplied extract](#)

[WorldPop / 2025 v3](#)

[NBS MPI / 2022](#)

[Boundaries / 2022](#)

Source links above. Ookla snapshot quarter and fixed/mobile type remain unresolved.

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Different evidence. Different actions.

01 / MEASUREMENT BLIND SPOTS

234 LGAs contain no recorded tests and 51.1m modelled residents. Prioritize independent measurement in high-population, high-need places; do not prescribe infrastructure from missing tests alone.

02 / SPEED DOES NOT TELL THE WHOLE STORY

Median tile-average loaded latency is 1,281.5 ms (8,972 valid tiles). 30 sample-supported LGAs have ≥ 25 Mbps median download and $\geq 1,000$ ms loaded latency. Repeat controlled tests and request operator diagnostics; cause is not identified here.

03 / MEASUREMENT IS CONCENTRATED

The top 10 LGAs hold 36.6% of summed tile device contributions but 5.5% of modelled population. This is observation concentration, not subscriber share. Rebalance measurement toward under-observed places.

WHERE TO BEGIN / TWO DISTINCT INVESTIGATION TRACKS

Investigate measured performance

LGA / STATE	TILES	TESTS	SCORE	RANK RANGE
Dutse / Jigawa	14	26	92.2	1–1
Wukari / Taraba	8	37	87.3	2–5
Gezawa / Kano	7	21	86.2	2–7

Commission independent measurement

LGA / STATE	TILES	TESTS	SCORE	RANK RANGE
Yamaltu/Deba / Gombe	0	0	93.0	1–2
Birnin Kudu / Jigawa	2	2	92.8	1–4
Potiskum / Yobe	9	11	91.5	2–5

207 LGAs pass the sample floor; 206 have paired quality metrics. Scores are analyst-selected priorities, not forecasts. Rank ranges compare weight scenarios, not confidence intervals. Under a stricter 10-tile / 50-test floor, 6 of the default top 15 remain. Borno is excluded because NBS flags state representativeness.

EXPLAINABLE PRIORITIES / EXACT SHAP

Dutse: reference 52.7 + observed quality +21.4 + population +6.2 + regional need +11.9 = 92.2 priority points. Reference: mean components of 206 nationally eligible performance LGAs.

Exact interventional Shapley values for the linear score: weight x (component - reference mean). This explains prioritization, not causes or coverage. Source-linked contributions and assumptions are available in the atlas.

METHODS & LIMITATIONS

1. Audit the valid WGS84 GeoPackage layer. 2. Assign tiles once by centroid; use largest polygon/tile overlap for 24 boundary cases. 3. Match all 774 WorldPop LGA populations; verify 237,527,782 national total. 4. Attach state MPI without inventing LGA poverty. 5. Publish separate quality and measurement priorities with sensitivity ranges.

Quality score: 50% observed-quality percentile, 30% population, 20% state MPI. Quality combines reversed download (65%) and loaded latency (35%). Measurement score: 60% population, 40% MPI. Full definitions and audit are available in the atlas.

Crowdsource selection, cross-year sources and aggregation limit interpretation. The supplied snapshot quarter/type remains unresolved. No verified coverage, fibre routing, causal diagnosis or connected-headcount claim is made.



[Explore the interactive atlas](#)

EXPLORE THE ATLAS / FINDINGS, SOURCES, METHODS & DATA DOWNLOADS