

Nigeria CO2 Hotspots

Google Earth Pro imagery: latest and historical, annotated

Prepared by Dinar Wali · RegenX · October 2026

16 sites · 28 annotated views · imagery dates 2006–2026

H01 · Egbin power station, Ikorodu (Lagos)

Lagos metro cluster 12.2 Mt CO₂/yr (EDGAR 2024) · Egbin 2.06 Mt (Climate TRACE) · 1,320 MW gas-fired

Imagery 2 May 2013



H01 · Egbin power station, Ikorodu (Lagos)

Lagos metro cluster 12.2 Mt CO2/yr (EDGAR 2024) · Egbin 2.06 Mt (Climate TRACE) · 1,320 MW gas-fired

Imagery 8 Feb 2024



500 m

Image © 2026 Airbus

H02 · Dangote Petroleum Refinery, Lekki Free Zone

2.65 Mt CO₂ in 2024 (Climate TRACE) · 650,000 bbl/day · not yet in EDGAR's 1 km grid

Imagery 17 Dec 2013



Future refinery site
forest and swamp, no works yet

500 m

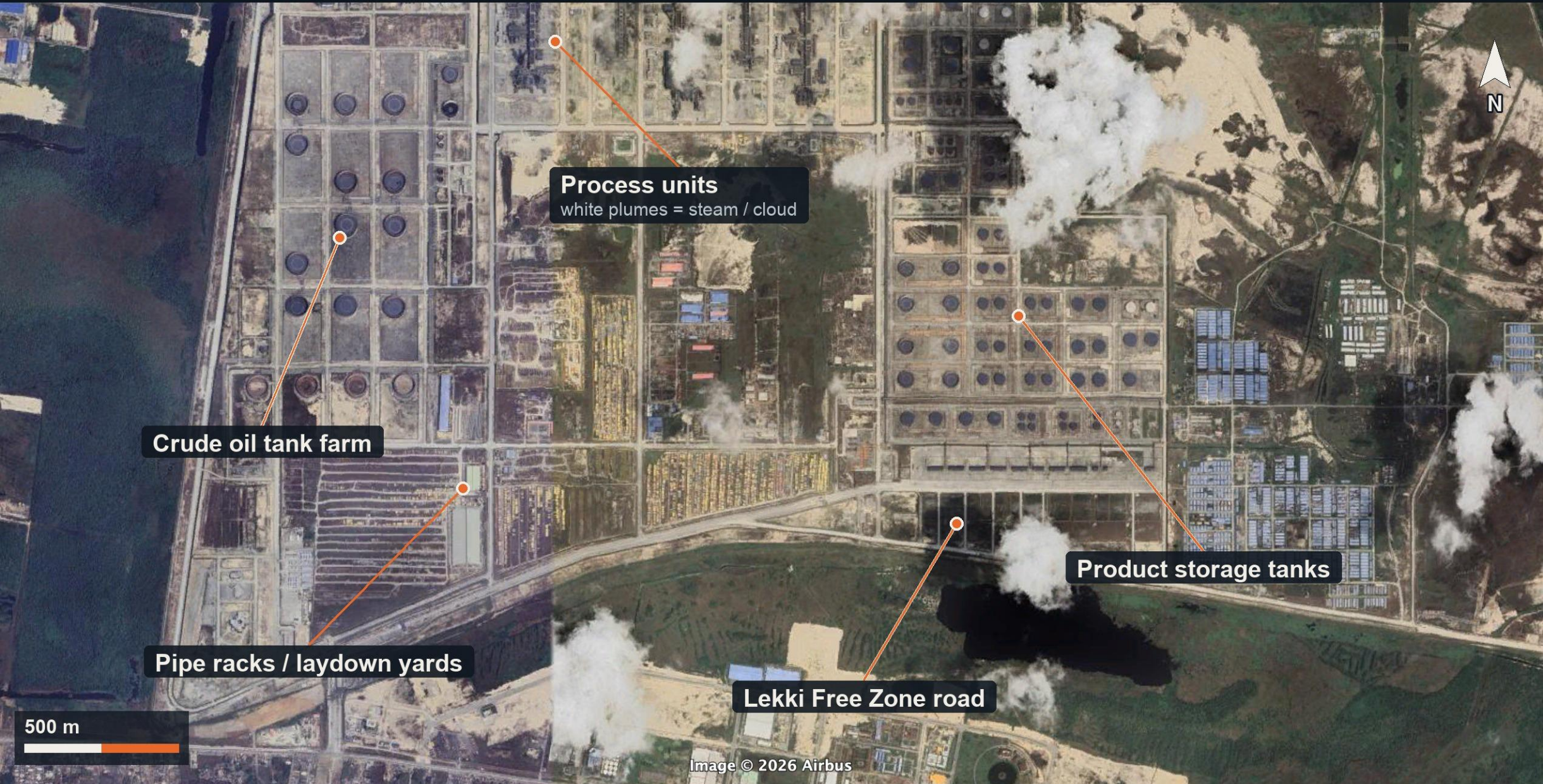
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Imagery: Google Earth Pro (provider shown on image) · Emissions: EDGAR 2025, Climate TRACE v6 · Annotation: Dinar Wali, RegenX · Oct 2026

H02 · Dangote Petroleum Refinery, Lekki Free Zone

2.65 Mt CO₂ in 2024 (Climate TRACE) · 650,000 bbl/day · not yet in EDGAR's 1 km grid

Imagery 20 Nov 2024



H03 · Port Harcourt – Onne – Eleme industrial belt

EDGAR cluster 9.3 Mt CO₂/yr · Port Harcourt Fertilizer 3.15 Mt, Onne 1.64 Mt (Climate TRACE) · highest NO₂ (×2.34)

Imagery 20 Dec 2013



1 km

Image © 2026 Maxar Technologies

H03 · Port Harcourt – Onne – Eleme industrial belt

EDGAR cluster 9.3 Mt CO₂/yr · Port Harcourt Fertilizer 3.15 Mt, Onne 1.64 Mt (Climate TRACE) · highest NO₂ (×2.34)

Imagery 30 May 2025



Port Harcourt city

Industrial complexes
tanks and process plant

Eleme / Oyigbo settlements

1 km

Image © 2026 Airbus
Image © 2026 Maxar Technologies

Imagery: Google Earth Pro (provider shown on image) · Emissions: EDGAR 2025, Climate TRACE v6 · Annotation: Dinar Wali, RegenX · Oct 2026

H04 · Bonny Island – Nigeria LNG

EDGAR cluster 5.4 Mt CO₂/yr in 100 km² · LNG trains, power plant and export terminal

Imagery 13 Jan 2014

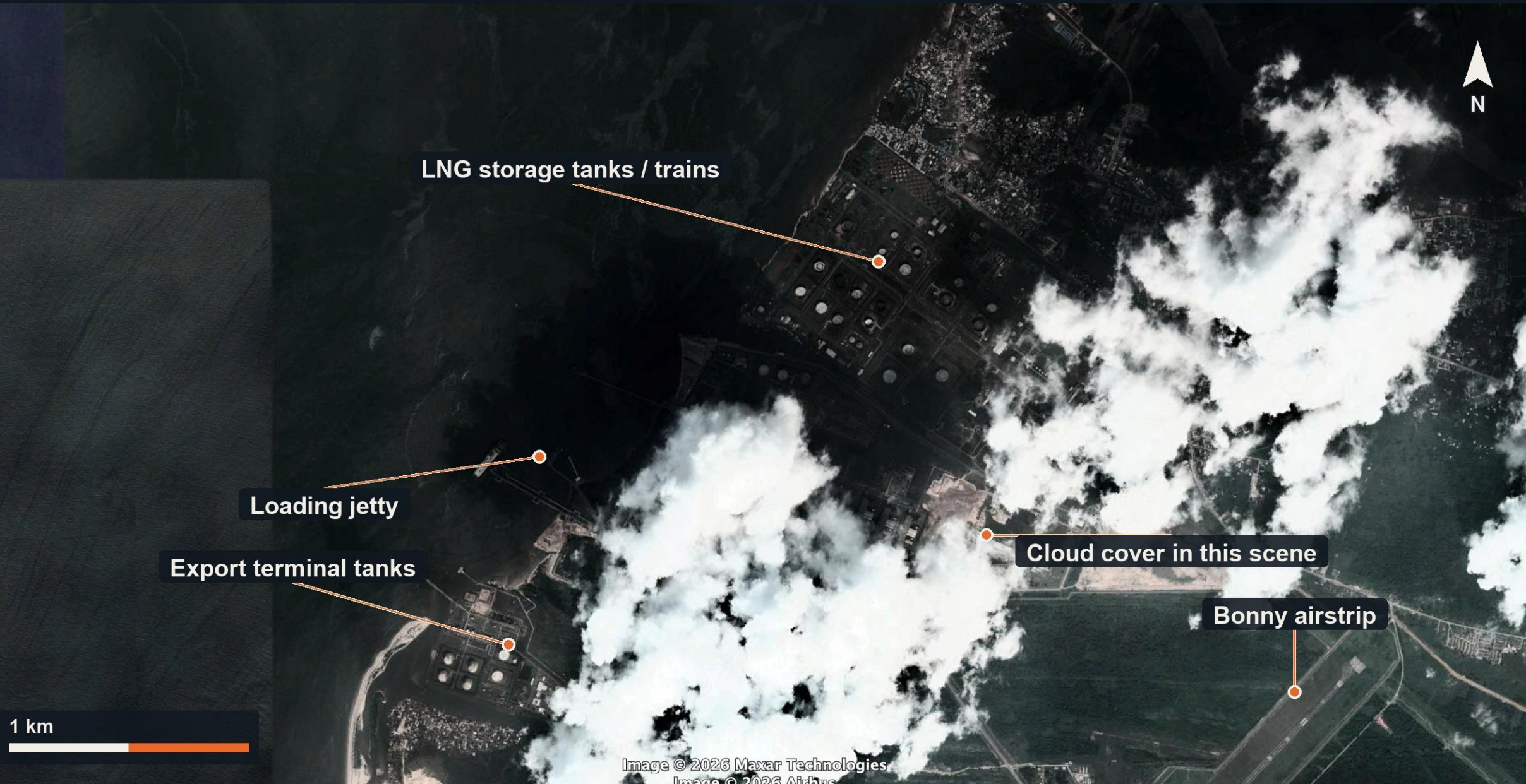


Image © 2026 Maxar Technologies

H04 · Bonny Island – Nigeria LNG

EDGAR cluster 5.4 Mt CO₂/yr in 100 km² · LNG trains, power plant and export terminal

Imagery 10 Dec 2021



H05 · Obajana Cement (Dangote), Kogi

6.1 Mt CO₂/yr (EDGAR 2024) · Africa's largest cement plant · built after 2002

Imagery 18 Nov 2011



1 km

Image © 2026 Maxar Technologies

Imagery: Google Earth Pro (provider shown on image) · Emissions: EDGAR 2025, Climate TRACE v6 · Annotation: Dinar Wali, RegenX · Oct 2026

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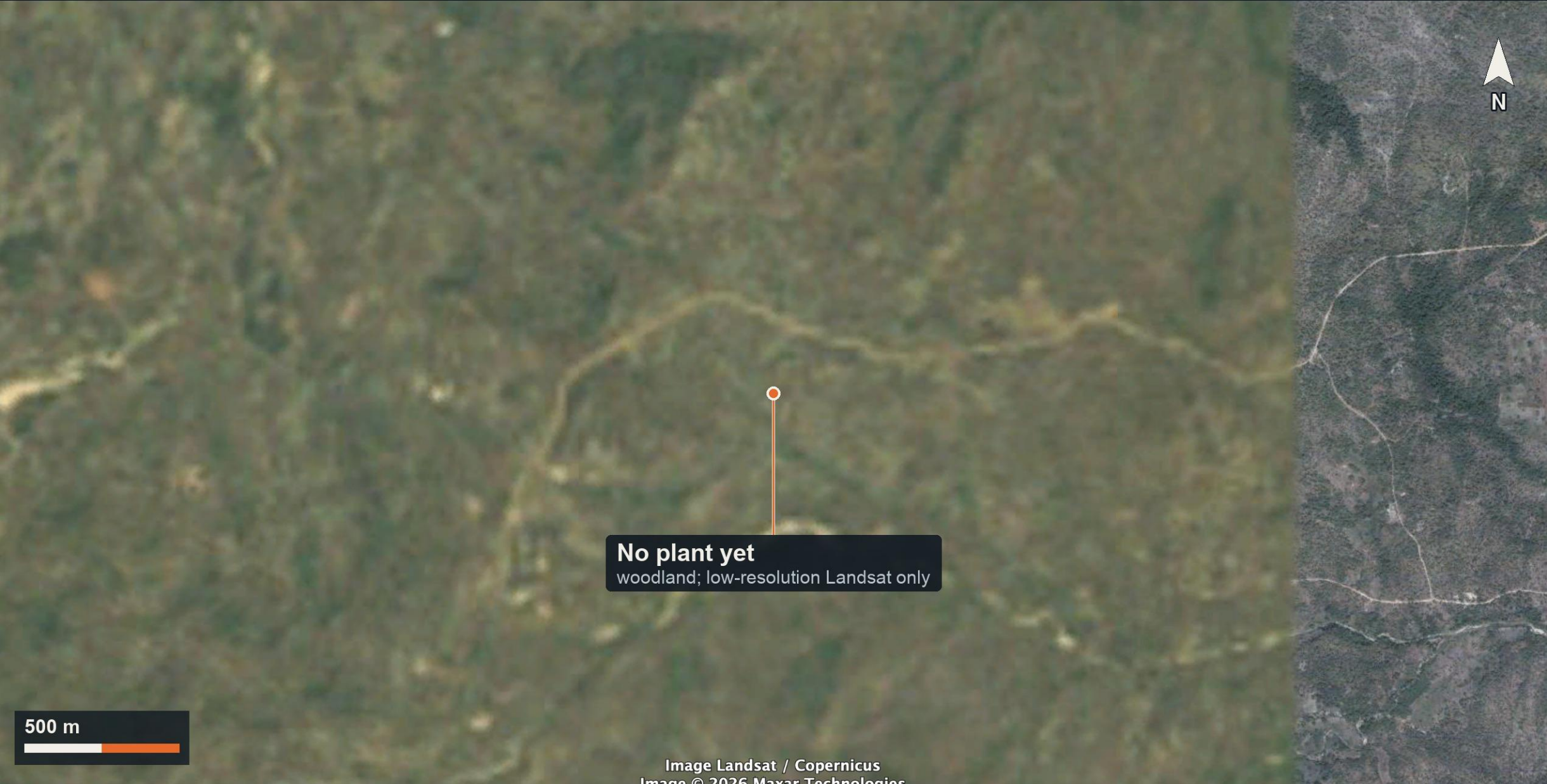
Imagery 13 Dec 2024



H06 · BUA Okpotu Cement, Benue

2.83 Mt CO2/yr (Climate TRACE) · missing from EDGAR's grid · NO2 +45% since 2019

Imagery 23 Nov 2006



500 m

Image Landsat / Copernicus
Image © 2026 Maxar Technologies

H06 · BUA Okpotu Cement, Benue

2.83 Mt CO₂/yr (Climate TRACE) · missing from EDGAR's grid · NO₂ +45% since 2019

Imagery 1 Mar 2025



H07 · Ibese Cement (Dangote), Ogun

2.2 Mt CO₂/yr (Climate TRACE) · 2.0 Mt EDGAR cluster · NO₂ ×2.28 national median

Imagery 19 Jan 2014



Kiln lines (before expansion)

Haze over quarry area

1 km

Image © 2026 Maxar Technologies

Imagery: Google Earth Pro (provider shown on image) · Emissions: EDGAR 2025, Climate TRACE v6 · Annotation: Dinar Wali, RegenX · Oct 2026

H07 · Ibese Cement (Dangote), Ogun

2.2 Mt CO₂/yr (Climate TRACE) · 2.0 Mt EDGAR cluster · NO₂ ×2.28 national median

Imagery 21 Jan 2026



Image © 2026 Airbus

H08 · BUA Sokoto Cement, Kalambaina

2.36 Mt CO₂/yr (Climate TRACE) · the far north's largest point source · under-allocated by EDGAR

Imagery 27 Sep 2013



500 m

Image © 2026 Maxar Technologies

H08 · BUA Sokoto Cement, Kalambaina

2.36 Mt CO₂/yr (Climate TRACE) · the far north's largest point source · under-allocated by EDGAR

Imagery 30 Mar 2025



H09 · Kano metro

2.3 Mt CO₂/yr EDGAR cluster over 310 km² · transport-dominated · 2.3 → 4.1 Mt (2005 → 2025)

Imagery 7 May 2025



Image © 2026 Airbus
Image Landsat / Copernicus

H10 · Ughelli power station, Delta

1.81 Mt CO₂/yr (Climate TRACE) · persistent gas flares nearby

Imagery 15 Jan 2011



Ughelli power station

Second industrial compound

500 m

Image © 2026 Maxar Technologies

H10 · Ughelli power station, Delta

1.81 Mt CO₂/yr (Climate TRACE) · persistent gas flares nearby

Imagery 6 May 2024



Ughelli power station
gas turbines

Second industrial compound

Sand-dredging ponds

500 m

Image © 2026 Airbus

H11 · Azura-Edo & Ihovbor power, Benin City

Azura-Edo 2.12 Mt + Ihovbor 0.60 Mt CO₂/yr (Climate TRACE) · gas-fired

Imagery 5 Feb 2013



Future Azura-Edo site: bush

Cleared site

Ihovbor plant under construction

500 m

Image © 2026 Maxar Technologies

Imagery: Google Earth Pro (provider shown on image) · Emissions: EDGAR 2025, Climate TRACE v6 · Annotation: Dinar Wali, RegenX · Oct 2026

H11 · Azura-Edo & Ihovbor power, Benin City

Azura-Edo 2.12 Mt + Ihovbor 0.60 Mt CO₂/yr (Climate TRACE) · gas-fired

Imagery 6 May 2024



H12 · Gboko Cement (Dangote), Benue

1.7 Mt CO₂/yr EDGAR cluster · 1.18 Mt (Climate TRACE) · NO₂ +31% since 2019

Imagery 5 Jan 2014



Plant before expansion

Limestone quarry

500 m

Image © 2026 Maxar Technologies

H12 · Gboko Cement (Dangote), Benue

1.7 Mt CO₂/yr EDGAR cluster · 1.18 Mt (Climate TRACE) · NO₂ +31% since 2019

Imagery 18 Nov 2025



H13 · Mfamosing Cement (Lafarge), Cross River

1.6 Mt CO₂/yr EDGAR cluster · 1.13 Mt (Climate TRACE) · NO₂ +36% since 2019

Imagery 3 May 2022



500 m

Image © 2026 Maxar Technologies

Imagery: Google Earth Pro (provider shown on image) · Emissions: EDGAR 2025, Climate TRACE v6 · Annotation: Dinar Wali, RegenX · Oct 2026

H14 · Persistent fire cluster, Ogba/Egbema area

Largest MODIS persistent-fire cluster 2024–25: 19 km², fire on up to 229 of 730 days

Imagery 30 Dec 2022



H15 · Gas-flare site, Delta/Edo border

Largest flare site 2014–15 (fire on 255 of 730 days) · still 2nd in 2024–25 (225 days)

Imagery 30 Nov 2024



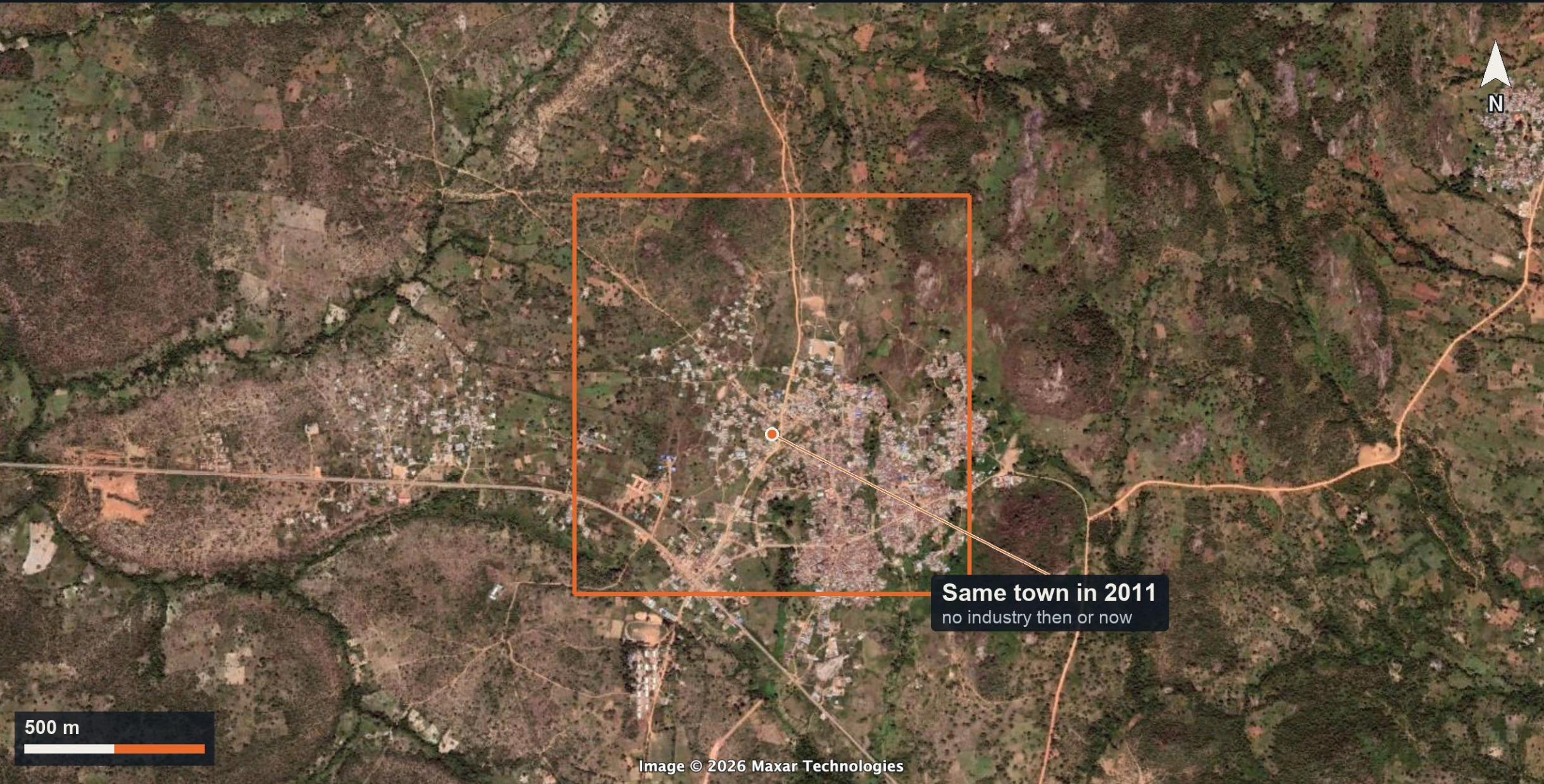
500 m

Image © 2026 Airbus

H16 · Rejected candidate, southern Kaduna

EDGAR places 0.69 Mt in one 1 km pixel (2025 only) · no plant, NO2 at background, no Climate TRACE facility

Imagery 7 Nov 2011



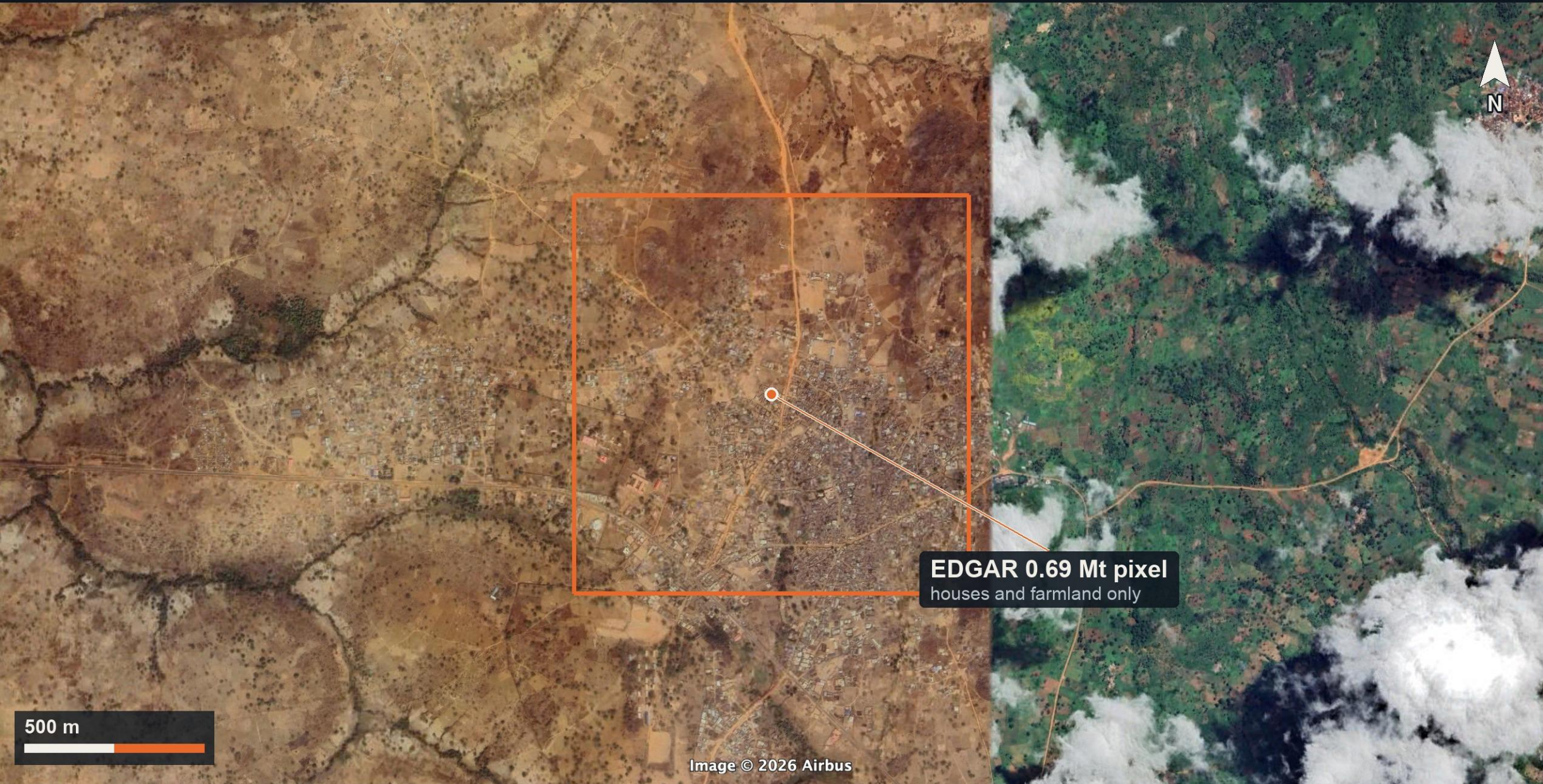
Same town in 2011
no industry then or now

Image © 2026 Maxar Technologies

H16 · Rejected candidate, southern Kaduna

EDGAR places 0.69 Mt in one 1 km pixel (2025 only) · no plant, NO2 at background, no Climate TRACE facility

Imagery 20 Sep 2023



500 m

Image © 2026 Airbus