



SiteSense



— THE AI ASSURANCE PLATFORM FOR CRITICAL INFRASTRUCTURE

# See it. Verify it. Act on it — continuously.

SiteSense turns field inspections, images, video and sensor data into continuously verified infrastructure intelligence — built for African conditions, and ready for autonomous inspection.

Product pitch

Built on Google

MTN Nigeria POC



## WHY THIS MATTERS

# Infrastructure is inspected with incomplete, delayed and unverifiable evidence

Owners of towers, power, fibre and distributed assets are flying blind between site visits.



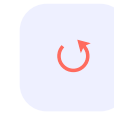
### Fragmented inspection

Reports, photos and asset records live in disconnected channels. Inspections are periodic, manual, and unreliable in low-connectivity locations.



### Unverifiable evidence

A photo doesn't prove location, date, asset identity or condition. Manual review can't scale across thousands of sites and contractors.



### Reactive decisions

Issues surface after failure. Leaders lack a live view of condition, risk and compliance — and teams collect reports instead of acting.

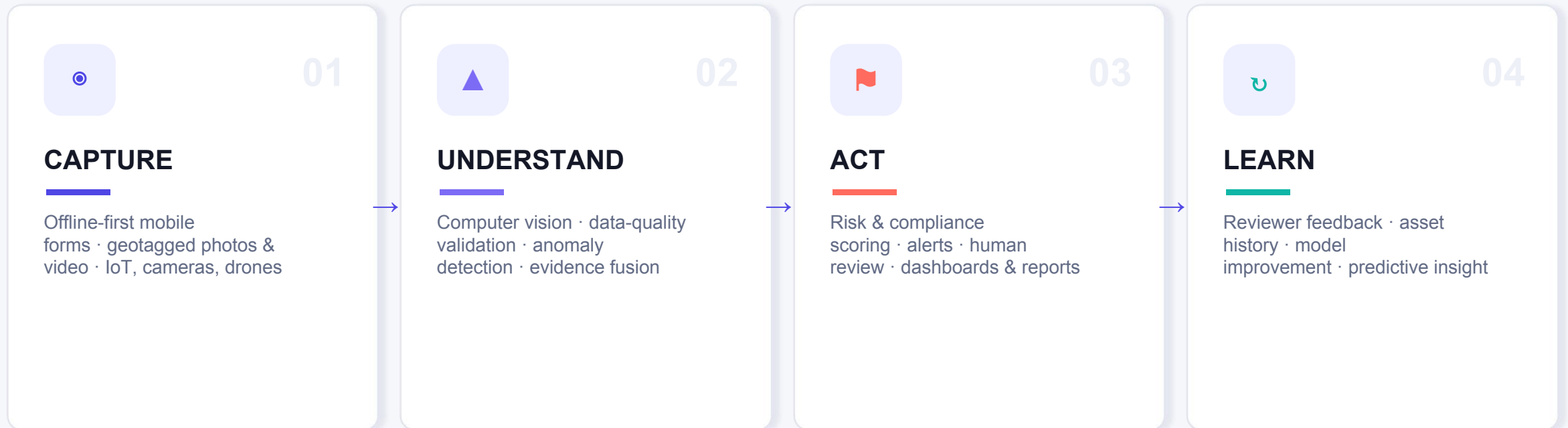
**The real gap:** not a lack of data — a lack of trusted, connected and actionable infrastructure evidence.



## WHAT SITESENSE IS

# One platform that captures, verifies and acts on every inspection

A continuous loop that works even where connectivity is unreliable.

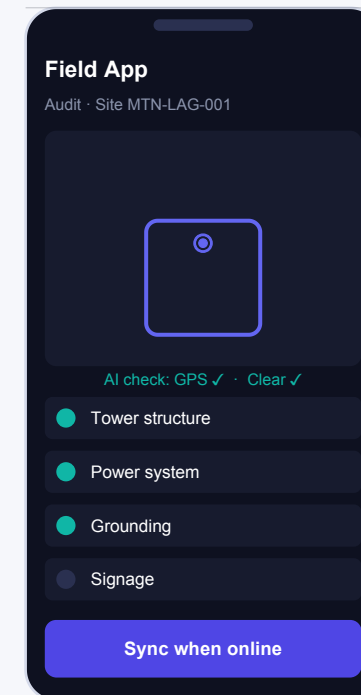


*Intelligent assurance & insights for every asset.*

## WORKING TODAY

# From the field to the control room, in one connected workflow

A live application: mobile capture, operations oversight, and an intelligence command centre.



## Live today

- Offline capture
- GPS-verified
- AI quality check
- One-tap sync
- Live dashboards
- Audit trail



## THREE SURFACES, ONE SYSTEM

# Purpose-built experiences for the field, operations and leadership

Every role works in the tool designed for them — connected by the same evidence layer.

### Field App

Mobile · offline-first

- Assigned inspections
- Offline evidence capture
- GPS & timestamp validation
- Instant AI quality feedback
- Automatic sync on reconnect

### Operations Portal

Web · oversight

- Inspection assignment
- Review & approval
- Exceptions & remediation
- Vendor & SLA oversight
- Full audit trail

### Command Centre

Web · intelligence

- Asset-health map
- Risk hotspots
- Compliance trends
- Predictive alerts
- Executive reporting



## OUR MOAT

# SiteSense doesn't just collect data — it understands and verifies it

Five compounding layers turn raw field inputs into trusted, defensible intelligence.

1

### Multi-modal evidence

Forms, images, video, geolocation, sensor readings and site history — combined, not siloed.

2

### Infrastructure-specific vision

Models tuned to identify assets, detect anomalies and test evidence against inspection rules.

3

### Contextual validation

Is this evidence credible for the asset, location, task and prior condition? It checks before it trusts.

4

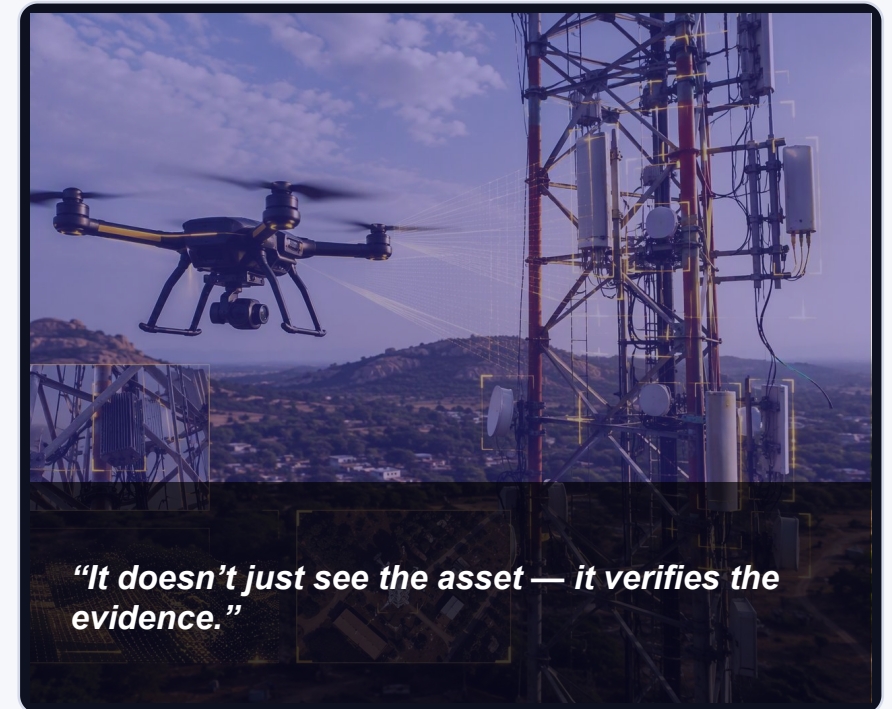
### Human-in-the-loop assurance

AI flags uncertainty; authorised reviewers decide and feed corrections back into the models.

5

### Compounding asset intelligence

Every verified inspection strengthens site history, risk profile and future inspection strategy.



**BUILT ON GOOGLE**

# From Firebase Studio prototype to Gemini multimodal intelligence

A working, Google-native foundation — with a credible path to scale on Google Cloud.

**01****Firebase Studio****BUILD & VALIDATE**

Rapid prototyping of the app experience, workflow and early user validation.

**02****Gemini API****ADD INTELLIGENCE**

Reasoning, natural-language interaction and AI-assisted decision support.

**03****Gemini multimodal****SEE IMAGE & VIDEO**

A multimodal Gemini model already in the build — understands real-world images and video.

**04****Firebase · Cloud****INDUSTRIALISE**

App integration, security, model access, data services and scalable deployment.

**05****Real-world APIs****EXPAND**

Connect AI to operational data, devices, partners and external systems.

**Already built, not just proposed:** SiteSense was initiated in Firebase Studio and already uses a Gemini multimodal model for image & video understanding.

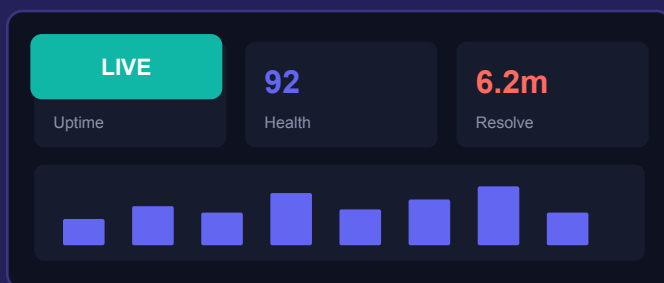


SiteSense

## PRODUCT ROADMAP

# From AI-assisted audits to autonomous infrastructure inspection

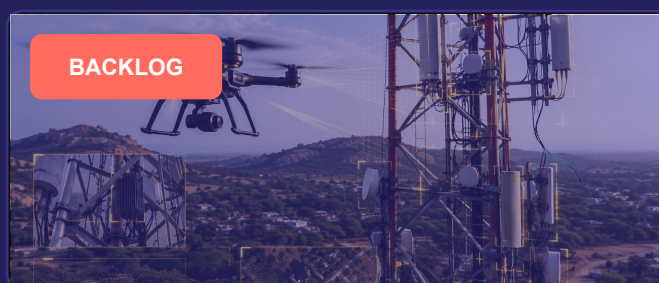
The app runs today. Drones and robots are the next product horizon — always with humans in the loop.



### STAGE 1

## Human-led, AI-assisted audit

Field teams capture structured evidence offline; AI validates; admins review, assign and track.



### STAGE 2

## Drone / UAV mast inspection

Autonomous or piloted UAVs fly around masts and tall assets for multi-angle, access-constrained evidence.



### STAGE 3

## Autonomous ground-site inspection

Camera robots patrol large compounds and outdoor sites — safe, repeatable, scheduled or on exception.



## WHY AUTONOMY NEEDS US

# Autonomy is only valuable when the evidence can be trusted

SiteSense is the data-integrity and integration layer that governs every human, drone and robot inspection.

### 1 Capture integrity

Device identity, mission, site & asset, GPS, time and requirement bound to every item.

### 2 Evidence integrity

Secure ingestion, original-media preservation, versioning, tamper-evidence and lineage.

### 3 Context integrity

Confirms evidence matches the right asset, angle, location, time window and standard.

### 4 Intelligence integrity

Vision, anomaly detection, historical comparison, confidence scores and traceability.

### 5 Workflow integrity

Verified findings drive alerts, tasks, review, vendor accountability and reporting.

*We don't need to build the drone or robot. Our moat is being the trusted platform every autonomous inspection runs through.*



## WHERE WE ARE

# A functioning product — now being proven with a Tier-1 operator

Clear claim discipline: what is live, what is being validated, and what is next.

### AVAILABLE NOW

#### Running application

- Offline-first mobile inspection
- Photo & video evidence capture
- GPS-supported site validation
- Assignment, review & submission
- Web admin, user & vendor workflows
- Dashboards & reporting
- AI-assisted validation (initial)

### POC · IN PROGRESS

#### MTN Nigeria

Approved proof of concept in a live telecom-infrastructure environment.

- Validate workflow & evidence
- Measure user adoption
- Test the business case
- Capture the KPI baseline

### NEXT · BACKLOG

#### Product direction

- UAV & drone mast inspection
- Autonomous ground-robot audits
- Fixed-camera & sensor monitoring
- Advanced infrastructure vision
- Predictive asset-risk scoring
- Risk-led mission scheduling



## PROOF, NOT PROMISES

# The KPI system the MTN Nigeria POC will measure

No invented targets — a measurement framework across five layers, with a focused POC scorecard.

## 1 Inspection productivity

- Cycle time per inspection
- On-time completion
- Inspections per resource
- Manual review time
- % completed offline

## 2 Evidence integrity

- % complete evidence
- Resubmission rate
- % valid GPS & timestamp
- Traceability coverage
- First-time acceptance

## 3 AI performance

- Anomaly precision & recall
- % auto-cleared
- AI-human agreement
- Model drift
- False +/- rate

## 4 Operational impact

- Detection→assignment time
- Avoided field visits
- Assignment→resolution
- Vendor SLA compliance
- % issues pre-failure

## 5 Platform & autonomy

- App availability
- UAV mission-data success
- Offline sync success
- Robot mission completion
- Ingestion success

## POC priority scorecard

Cycle time · first-time acceptance · evidence completeness · offline-sync · review time · AI-human agreement · critical-issue detection · adoption · audit-trail completeness



## BEACHHEAD & EXPANSION

# Start with telecom. Expand across every distributed asset network

Infrastructure is scaling faster than the capacity to inspect and assure it manually.

### Why now

- Towers, power, fibre & data centres expanding fast
- Assets span difficult terrain & weak connectivity
- Heavy reliance on contractors & field teams
- Regulators & enterprises demand traceable evidence
- Falling AI inference cost makes continuous viable

### BEACHHEAD

#### Telecom infrastructure

- Tower & radio-site assurance
- Power & energy systems
- Asset inventory verification
- Safety & maintenance inspection
- Vendor compliance
- Regulatory evidence

### EXPANSION

#### Adjacent verticals

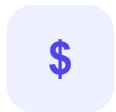
- Fibre & utility infrastructure
- Energy & renewables
- Data centres
- Transport infrastructure
- Industrial facilities
- Public-infrastructure oversight  
*Same engine — new templates, ontologies & models.*



## HOW SITESENSE EARNS

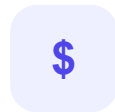
# A recurring infrastructure-intelligence platform

Multiple, compounding revenue paths built on the assurance workflow.



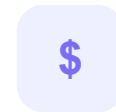
### Platform subscription

Per monitored asset / site



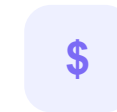
### User licences

Field & operations users



### AI analysis

Consumption-based intelligence



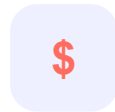
### Autonomy modules

Drone & advanced inspection



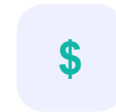
### Compliance & ESG

Regulatory reporting



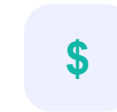
### Enterprise integration

Implementation & connectors



### Managed assurance

Assurance-as-a-service



### Partner marketplace

Approved inspection providers

*Land with a POC → expand by asset, user, module and sector → recurring, defensible platform revenue.*



---

**DEFENSIBILITY**

# Built for the conditions global platforms treat as exceptions

Four advantages that compound over time.

**01****Africa-ready by design**

Offline operation, intelligent sync and mobile-first field workflows — not a bolt-on.

**02****Domain-specific intelligence**

An evolving asset-assurance data & model layer, not generic form automation.

**03****End-to-end workflow**

Capture, validation, review, remediation, reporting and learning in one platform.

**04****Compounding data advantage**

Every accepted inspection strengthens site history, models and risk intelligence.



SiteSense

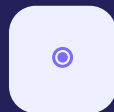
## — THE ASK

# Help SiteSense build the intelligence layer for autonomous inspection



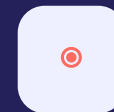
### Model acceleration

Infrastructure vision & multi-modal reasoning; stronger anomaly detection; evaluation datasets & benchmarks.



### Product acceleration

Low-connectivity & edge intelligence; explainability & reviewer trust; predictive asset-risk.



### Scale acceleration

Enterprise deployment; telecom → adjacent sectors; partnerships across operators & regulators.

*SiteSense is moving infrastructure assurance from periodic human inspection to continuous, trusted and increasingly autonomous intelligence. The app is running. The MTN Nigeria POC is the proving ground. Google can accelerate the next layer.*



SiteSense

## THE VISION

# The trusted AI layer for Africa's infrastructure.

See it. Verify it. Act on it — continuously. From a single inspection to continuous, autonomous assurance across every critical asset.

SiteSense

[sitesense.site](https://sitesense.site)

Google Africa AI Lab — thank you. · A Nexus Aspire product