

The Operating System for Nature

An end-to-end AI platform to restore and manage the planet's most critical ecosystems at scale.

Nature is the planet's most critical infrastructure.

Coastal, marine, and dryland environments are massive carbon sinks, protect inhabited coastlines, and underpin critical food systems - yet face accelerating pressure from climate change and rapid land development.



— WHY EXECUTION IS FAILING TODAY

The global commitments to protect and restore are real.
The tools to execute at scale are missing.

80%

of mangrove restoration projects fail due to poor data informing baseline assessment & interventions.

DATA GAP

\$10_k

average cost to restore a single hectare under costly, manual restoration models that don't scale.

COST & SCALE GAP

47%

of carbon credits rated “low integrity” due to weak or missing monitoring & verification.

VERIFICATION GAP

Nature is critical physical infrastructure that requires ongoing management, monitoring, and intervention - yet it is still run with manual methods and one-off “plant-and-hope” projects.

Nabat was built to close this gap.

THE PLATFORM

NabatOS

- the operating layer for ecosystem management.

A complete AI-powered platform that supports the full journey of government environmental agencies, corporate ESGs, project developers, and nature investors - from baseline assessment to verified outcome.



The six-stage pipeline

01 Map

High-accuracy data collection from satellite, aerial drone, and ground-based sensors across any terrain or ecosystem type.

02 Assess

Ether-powered habitat intelligence: land cover, species ID, canopy structure, biomass, and health scoring - at full-site scale.

03 Plan

Site suitability scoring, species selection, restoration design, and program planning - guided by ecological modeling.

04 Restore

Technology-enabled, precision restoration operations - including autonomous aerial seeding - at the scale and frequency these environments require.

05 Monitor

Continuous change tracking, survival rate measurement, and performance monitoring against restoration targets.

06 Verify

Auditable reporting structures enabling third-party and regulatory verification - traceable from data capture to outcome.

THE ENGINE

Ether.

Nabat's self-supervised, geospatial AI foundation model.

Ether powers a suite of task-specific models trained on satellite, aerial, and field data - specialized in **coastal, marine, and dryland environments**, and validated by in-house ecologists.

Land cover classification

Habitat health

Site suitability

Species ID

Canopy estimation

Sapling detection

Biomass

Carbon sequestration

Erosion detection

Change detection

Seed detection

An engine that expands to new habitats and use cases.

Nabat Restoration.

Five science-led services that deliver real-world restoration outcomes - **planned**, **executed**, and **monitored** by ecologists and operations specialists working in the field.

01 Nature programs

Design, delivery, and verification of technology-led restoration programs at scale, with measurable ecological outcomes - from site selection and species planning through to full program execution and independent outcome verification.

02 High-precision data capture

Millimeter-resolution aerial and marine surveys using optical, LiDAR, and SAR instrumentation - feeding directly into NabatOS for real-time analysis and decision support.

03 Autonomous aerial seeding

Large-scale UAV seeding missions with autonomous precision deployment across coastal, marine, and dryland environments, with continuous tracking of germination and survival.

04 Ecology consulting

Scientific methodology, ground truthing, and standards alignment - including Verra VCS, Gold Standard, and SBTN. In-house ecologists provide field validation that underpins the integrity of every NabatOS output.

05 Community engagement

Local capacity building and knowledge transfer - ensuring that restoration programs leave lasting capability within the communities and institutions that will manage these ecosystems for the long term.

IN THE FIELD

Every operation generates data and traceability that programs require.



From assessment to verification.

Nabat delivers across four solution areas - each addressing a distinct ecosystem need, all powered by the same platform and services stack.

MANGROVE SOLUTIONS

Coastal restoration, end-to-end.

Site suitability & selection

Aerial seeding

Post-planting monitoring, biomass measurement, and carbon MRV

ARID SOLUTIONS

Dryland restoration at scale.

Site assessment

Aerial seeding

Post-planting monitoring

HABITAT INTELLIGENCE

Large-scale habitat classification & health assessment.

AI-powered baselines

FOREST INTELLIGENCE

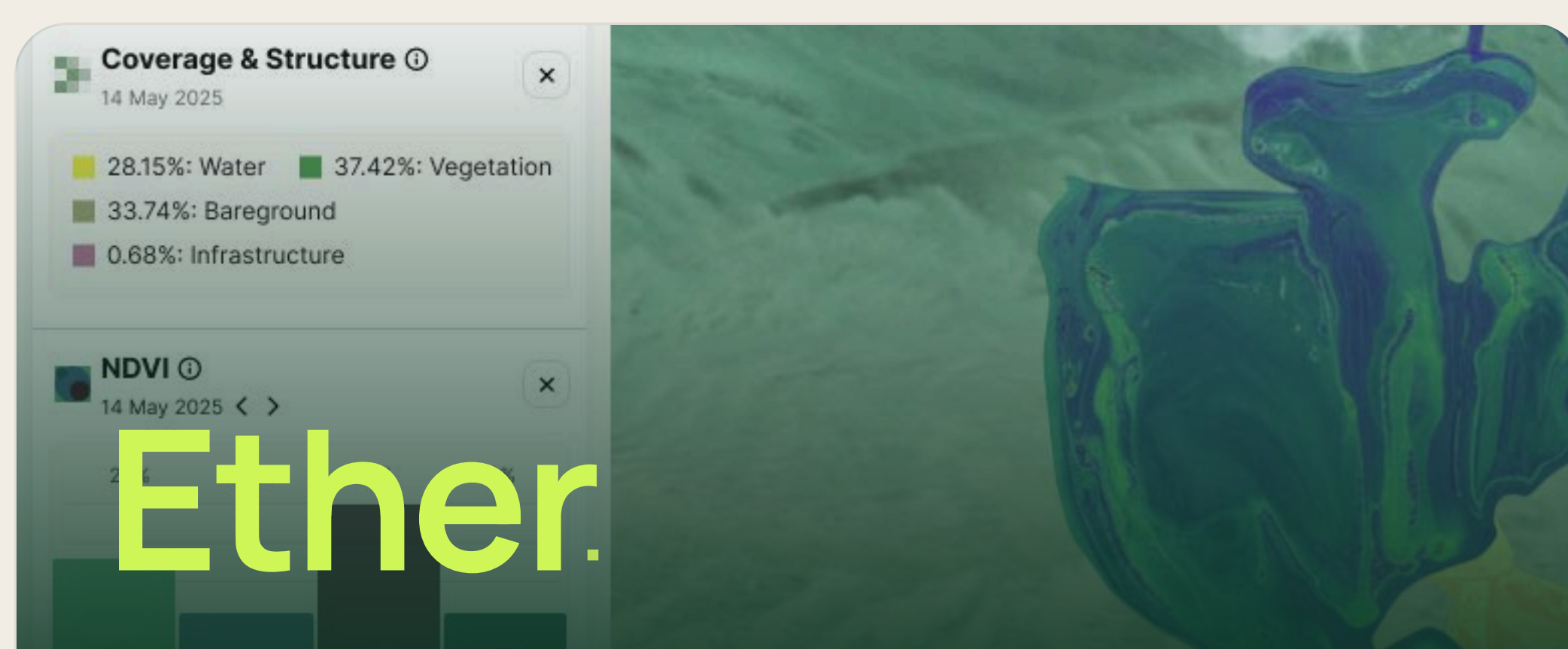
Large-scale forest survey & monitoring.

Continuous change detection

DIFFERENTIATORS

What sets Nabat apart.

Four capabilities, working together, are what make end-to-end ecosystem management actually executable at scale.



01 · AI CORE

Models specialized in coastal & dryland.

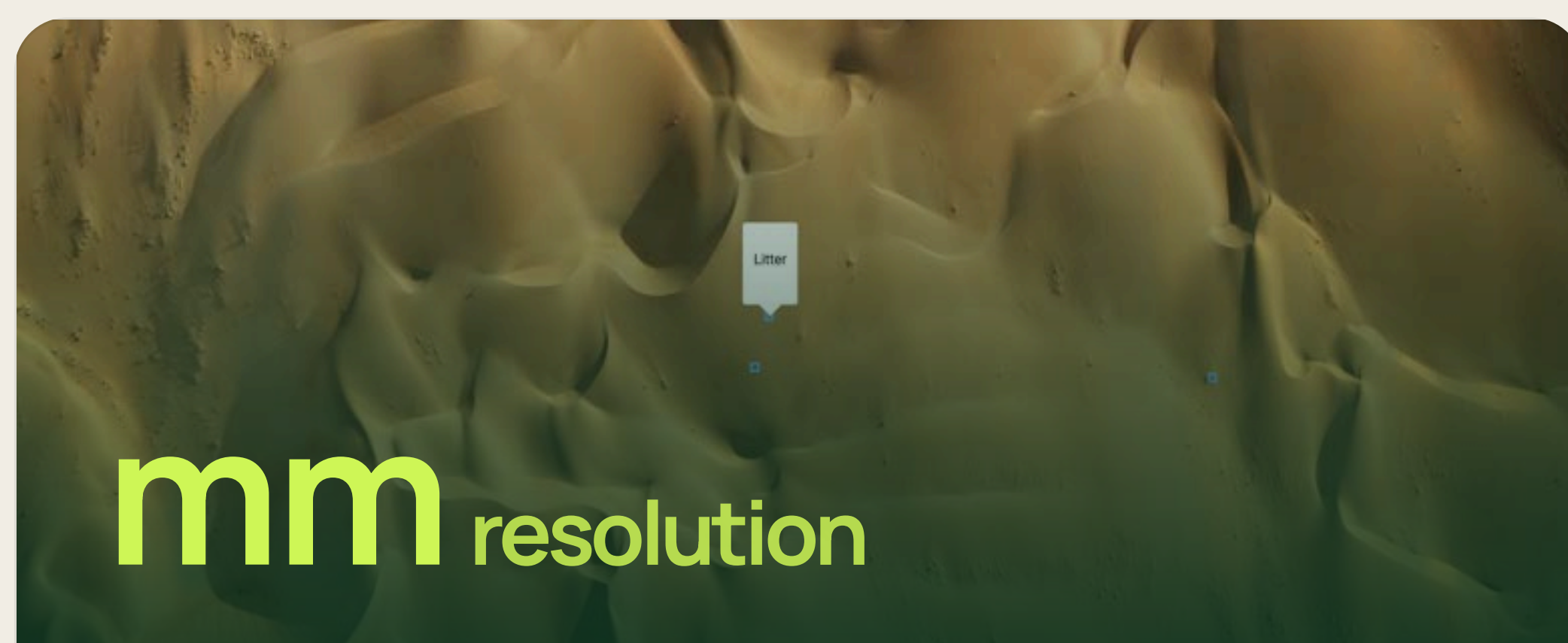
Proprietary geospatial foundation model and a **suite of task-specific models** trained by ecologists - tuned for the environments that matter most.



02 · SPEED & SCALE

Planetary-scale pipelines.

High-performance pipelines designed to handle **millions of hectares** and petabytes of imagery, ready for national and continental programs.



03 · REAL ACTION

Down to millimeter resolution.

Autonomous seeding and monitoring drones close the gap between remote sensing and ground intervention - **mm-level resolution** across species identification, seed and sapling detection, canopy structure, litter mapping, and fauna monitoring.



04 · VERIFIABLE OUTCOMES

Auditable from data to outcome.

Every output is **traceable from data capture through to verified result** - aligned to Verra VCS, Gold Standard, and SBTN for high-integrity reporting.

WHO NABAT IS FOR

Designed for those restoring nature at scale.

Protecting and restoring ecosystems requires **aligned decisions**, shared intelligence, and trusted data across stakeholders.

Nabat is designed to build capacity across the full ecosystem of actors - delivering **clarity, scale, and verification**.

01 Governments & national regulators

Establish science-led ecosystem baselines, design and scale restoration programs, and deploy high-integrity DMRV systems for national climate, biodiversity, land-use and regulatory reporting requirements.

02 Nature & impact investors

Identify, diligence, monitor, and de-risk nature-based projects through decision-grade data and DMRV - supporting capital deployment into high-integrity restoration and natural capital assets.

03 Nature project developers

Source, design, and operate scalable restoration projects - combining science-grade ecosystem assessment, end-to-end implementation, and DMRV to build robust, investable nature projects.

04 Corporates

Science-grade baselines and MRV to design, target, and credibly report nature and climate commitments - enabling high-integrity nature investments, supply-chain risk mitigation, and defensible ESG disclosures.

05 NGOs & local restoration operators

Scale restoration and monitoring through technology and automation - reducing costs, increasing coverage, and strengthening long-term project performance and impact.

06 Infrastructure developers

Assess environmental constraints and impacts, de-risk site selection, support permitting, and monitor long-term ecological performance across the full asset lifecycle.

Restoring ecosystems at scale requires more than ambition. It requires **intelligence**, technology, and **evidence**.

Nabat provides all three - combining science-led intelligence, technology-enabled restoration, on-the-ground implementation, and digital verification to help partners move **from intent to impact**.

— LET'S TALK

contact@nabat.ai

CORPORATE BROCHURE

NABAT.AI

2026 / 2027