
Nature Tech

NABAT: An ATRC Venture Building the Operating System for Nature

One Vision: **An end-to-end AI platform** to restore and manage the planet's most critical ecosystems at scale. **Nabat serves the planet's most critical, yet undermanaged & underserved natural habitats** (coastal & dryland ecosystems)

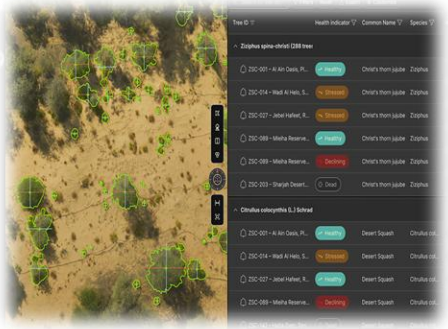
One Innovation: **NabatOS unifies mapping, assessment, planning, restoration, monitoring & verification** in an AI-powered management platform for natural & engineered ecosystems. Its geospatial AI foundation model and suite of task-specific models are trained by ecologists. The autonomous seeding and monitoring drones take real action on the ground. Nabat's technology is built for speed and scale with high-performance pipelines designed to handle planetary-scale data – millions of hectares, petabytes of imagery, down to mm-level resolution

Towards a Sustainable Future: As nations move from pledges to audited delivery, governments and corporates urgently need a single, integrated system for nature — NABAT closes this gap with its **science-led & deployable at planetary scale technology**

From Pledges to Proof

Nature restoration is traditionally run with manual methods and as one-off projects in a "plant-and-hope" model.

NABAT delivers verifiable drone-based mangrove restoration at scale – 1.5 million seeds planted in 2025, 10 million seeds planned in 2026 while tracking survival, health and growth.



EARTO IMPACT DELIVERED

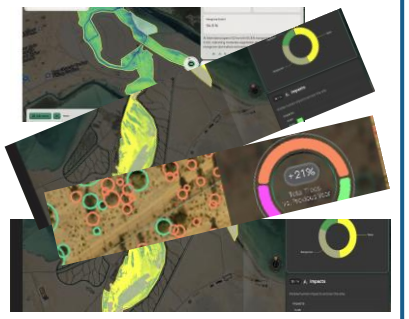
ADVANCED TECHNOLOGY RESEARCH COUNCIL

VENTURE one

An ATRC venture

nabat.ai

Building the operating system for nature



NABAT: From Research to Operations

2020

ATRC established in Abu Dhabi

The Advanced Technology Research Council is created by Presidential decree to drive Abu Dhabi's R&D ecosystem, with research institutes and a venture-building arm — the foundation for sovereign nature technology.

2021 – 2024

R&D ecosystem matured at ATRC

With **1,311 team members, 97 technology solutions and 170+ partnerships across 28 countries,** ATRC matured geospatial AI, remote sensing and autonomous systems into deployable technology.

2025

NABAT venture created at ATRC

Nabat was **launched as an ATRC venture, built on ATRC's research in AI & Robotics**. Nabat's core drone-based restoration services offering is **continuously being enriched** via its geospatial AI and modelling platform.

Anchor national programs

NABAT delivers 2 anchor programs in the UAE: **Large-scale mangrove restoration** with EAD - pilot completed with 1.5 million seeds dispersed in 2025, scaling to 10 million in 2026, as well as an **Emirate-wide habitat mapping & health assessment**, delivering the most AI-advanced maps of the emirate.

2026

NABAT Expands its Footprint

Nabat delivers a pilot program in Saudi Arabia and signed an LOI in Indonesia, while current engagements grow to **6 paying contracts.**

The team has grown to **32 talents, powering 4 solutions and 20+ AI-enabled products** infused with ecology science.

2026 – 2030

Scale-up & market expansion

International expansion deepens across the GCC (KSA) **& Southeast Asia** (Indonesia), **while the solution family grows — Protect** (policy), **Manage** (monitoring), **Restore** (restoration), **Operate** (field ops). **and extends into new natural habitats beyond mangroves.**

UAE & Worldwide Market Expansion

The RTO ATRC was the place where:

- **The idea was conceived and developed into concept**
- **The technology was matured for planetary-scale restoration**
- **The venture was created and accompanied**
- **The collaboration continues for new ecosystems**

NABAT Technology's Impact on Operations

EARTO IMPACT DELIVERED

1 Nabat Protect™

Intelligence for nature policy

Nation-scale AI mapping and surveillance that gives governments proof of ecosystem change to protect natural assets and enforce policy.

Government agencies & regulators

2 Nabat Manage™

Track ecosystem condition

Recurring monitoring of coastal & arid ecosystems and rangelands, turning condition, degradation and recovery into clear insights landowners can act on.

Landowners & ecosystem managers

3 Nabat Restore™

Restore nature at scale

End-to-end mangrove and arid restoration: identify suitable sites, plant native species at scale, and track survival, recovery and carbon impact.

Project developers, corporates & investors

4 Nabat Operate™

Intelligence for field operations

Recurring monitoring that detects stress, mortality and irrigation issues — prioritising targeted actions across forests and farms day to day.

Landowners & ecosystem managers

- Lighthouse Projects at scale | **Large-scale mangrove restoration** with EAD (restoration of 20k+ hectares in 7 years) and the **Emirate-wide habitat mapping & health assessment,** delivering the most AI-advanced maps of the emirate
- Tech & Ecology | **AI models trained by ecologists power planetary-scale, mm-resolution pipelines, with fully compliant flight operations backed by 10,000+ UAV hours**
- Proven impact | **In 2025 alone: 1.5M+ mangrove seeds dispersed, 400+ autonomous drone flights & 4,000+ hectares surveyed**
- Partners supporting NABAT | Environment Agency – Abu Dhabi, ADMI, Nature Tech Collective, Global Mangrove Alliance, TII & 170+ partners
- Backed by Research with a sovereign national capability | Supported by **1,100+ researchers** across **100+ universities**, with **224 scientists** and **33 PhDs** driving deep robotics & AI expertise