Assimilate

Carbon Credit Trading Platform

Investing in Our Atmosphere, Paving Your Path to Net-Zero



BY ASSIMILATE TECHNOLOGIES

Africa's soil holds the carbon. The transaction layer never reached it.

Carbon markets were architected for industrial emitters not for the smallholders, cooperatives and field-real economies that hold most of the verifiable sequestration capacity.

1

Inefficient Transactions

Slow, paper-heavy deals closed through intermediaries. Settlement days stretch into quarters; verification costs eat into already-thin project margins.

2

Smallholder Exclusion

Cooperative farmers across sub-Saharan Africa locked out of every credit pipeline. Upfront soil testing and third-party auditing sit far beyond their working capital.

3

Inefficient Transactions

Buyers can't find credits that are simultaneously verified, fairly priced and clearly Africa-originated. Trust signals collapse between projects and procurement desks.



One platform. Three coordinated layers.



1

Automated Marketplace

A digital exchange where every listing, bid, and retirement is logged. No intermediaries, no paper chains. Listings clear at transparent prices visible to every participant.

2

Seamless Integrity

Transparent pricing, frictionless onboarding, secure escrow. Buyers see exactly who originated the credit; sellers see exactly who is buying. Trust is engineered into the rails.

3

AI & Remote Sensing

Low-cost, continuous D-MRV. Sequestration is tracked every season; credits delivered to farmers are fraud-proof; every issued credit carries a verified provenance line.

Digital Onboarding

Field-led, language-led, registry-grounded. We get the farmer into the system the way their day actually works, then attach their plot to a permanent record.

1. Digital Onboarding | 2. AI-Powered MRV | 3. Audit & Minting | 4. Trade & Retirement

01

Outreach via local networks

Onboarding runs through farmer cooperatives, agricultural extension offices, and trusted local NGOs existing trust, not parallel structures.

02

GPS boundary mapping

Field agents walk each plot with mobile GPS kits, capturing exact boundaries and current land use the coordinates below every future credit.

03

Ownership verification via land registry

Plot rights are reconciled against national and local land registries, removing ambiguity before any monetized claim is recorded.

04

Vernacular-language contracts

Carbon-credit rights transferred on 5—10 year terms, with 60—70% of revenue flowing back to the farmer or cooperative.

AI-Powered Monitoring, Reporting & Verification.

Continuous, low-cost, ground-truthed. Sequestration is observed - not assumed.

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01

Satellite imagery

Multi-spectral passes resampled at the field-plot level every plot gets a per-season vegetation signal.

02

Remote sensing

IoT soil-moisture and weather sensors fielded with cooperatives - continuous ground truth between satellite passes.

03

AI carbon models

Per-plot above- and below-ground sequestration modeled from signals, validated against baselines and uncertainty bounds.

04

Periodic soil sampling

Lab-analyzed samples anchor the model every issued credit has a verifiable soil-carbon reference.

Audit. Then Mint.

Two gatekeeping phases - independent third-party validation followed by registry issuance. A credit only enters the market after both clear.

1. Digital Onboarding | 2. AI-Powered MRV | **3. Audit & Minting** | 4. Trade & Retirement

Phase A

Independent Validation

An accredited Validation / Verification Body (VVB) audits the platform's D-MRV outputs against the project boundary. Methodology, baseline, additionality, leakage, and permanence all reviewed under an ISO-aligned protocol.

- VVB site visits in tandem with periodic satellite reviews.
- Findings published; non-conformities trigger re-validation.
- Decision is binary: validated → ready to mint.

Phase B

Global Registration

Project registered with Gold Standard / Verra - the two registries that govern how African credits enter global voluntary markets and any future compliance frameworks.

- **Outcome:-** globally fungible credits, with origin and methodology on-chain

Trade. Retire. Pay out.

1. Digital Onboarding | 2. AI-Powered MRV | 3. Audit & Minting | 4. Trade & Retirement

01

List on platform

Validated credits enter the platform's open order book. Lot sizes, vintages, methodologies all visible to qualified buyers.

02

Corporate purchase

ESG leads and procurement desks transact via a self-serve dashboard - escrow in place until retirement clears.

03

Permanent retirement

On payment, the credit is retired against the global registry - public, inalterable, and double-spend-proof.

04

Payout to the field

Net proceeds - less platform commission - flow to the farmer or cooperative. Mobile money or local bank transfer, same week.

Cycle close: a credit cannot be resold after retirement.

Every retired credit carries a complete audit trail - origin plot, methodology, validation report, retirement serial. ESG reporters cite the same identifier we retire against.

Built. And continuing.

Live Portal - deployed UI

Live

Internal traders and field agents on production UI. Awaiting public launch gated on pilot data loop.

Registry protocol - VVB + Gold Standard / Verra

Architected

Validation protocol designed end-to-end. Awaiting first issuance batch to trigger onboarding with both registries.

Backend - localhost / testing

In Test

D-MRV backend in staging. Cloud deployment in flight, scheduled with the first pilot.

Market demand study non-obligated entities

Underway

Each ton of carbon is a rural life at the same time.

01 Direct rural wealth creation

60—70% of credit revenue flows back to the farmer or cooperative. Wealth that stays in the district where the sequestration was generated.

02 Livelihood climate resilience

Regenerative practices on enrolled plots - cover cropping, mulching, agroforestry - improve yields and buffer households against drought and rainfall volatility.

03 Empowering the agri-ecosystem

Cooperatives, self-help groups, extension workers - each earns a role, training and compensation. Green employment at the last mile, not white-collar abstraction.

04 UN SDG Alignment

01	13	15
No Poverty	Climate Action	Life on Land

The team is already running in three time zones.

Engineering, agronomy, ground operations, compliance — combined under one operating system. Not a coalition of vendors, an integrated build.

TECHNOLOGY

Core engineering & AI stack

Backend, data pipelines, computer-vision models, and the marketplace UI - built and maintained by a senior product and ML team.

DOMAIN EXPERTISE

Agronomy & carbon accounting

Verra and Gold Standard protocol expertise, baseline design, additionality and leakage logic, and land-management practice on the ground.

OPERATIONS

Ground operations leadership

Cooperative engagement, land-title validation across mixed-formal-tenure districts, field-agent onboarding - the part that actually makes the platform move.

COMPLIANCE

Compliance advisor network

An on-call network of accredited VVBs and legal consultants - engaged project-by-project, not retained forever.

The market is forming. We are not the first to notice.

Market potential

ACMI

Africa Carbon Markets Initiative is anchoring national compliance frameworks across multiple African states.

Voluntary demand

ESG

Surge driven by corporates meeting reporting mandates and SBTi-style commitments.

Competitive moat

Built for the last mile, not for the procurement desk.

Global players

Differentiation vs. Sylvera / Aspiration-style platforms via deep hyper-local integration with African farmer cooperative networks and land registries.

Defensibility

High barriers through low-cost D-MRV, network density on the supply side, and durable relationships with cooperative federations.



The ask, and where it goes.

Allocation 01

Product & engineering • 40%



ALLOCATION 02

Baseline field operations • 30%



ALLOCATION 03

Verification & listing • 20%



ALLOCATION 04

General & legal • 10%



BEYOND CAPITAL

Two introductions, earned in advance.

- Strategic intros to regional cooperative leaders
- Pilot-ready corporate buyers

Each of the two starts a flywheel turn. We bring the rails; we ask the room for the doors that matter.

Assimilate

Let's Build The Future

Of Intelligent Enterprises - Together

USA (HO)
121 Pembroke Terrace, Glastonbury, CT 06033

UAE
Meydan Grandstand, Dubai, United Arab Emirates

INDIA (ODC)
2nd Floor, Signet Corner, S.No. 134/5+6, Baner, Pune - 411045

+91 9175529151

sanjay@assimilatetechnologies.com