EB-LITE-008 · OVERVIEW SERIES

Earth Blockchain Litepaper

The essential Earth Blockchain in twenty minutes: why verifiable trust is the next enterprise infrastructure, how a green Layer-1 with deterministic finality delivers it, the five products and nine standards that make it usable on day one, and the fixed-supply EARTH economy that binds it together.

EXECUTIVE OVERVIEW · LAYER-1 · FIVE PRODUCTS · EARTH ECONOMY · SUSTAINABLE

Version 1.0 · **Status** Public Release · **Date** July 2026

Canonical source Earth Blockchain Whitepaper v2.0

Audience executives · investors · partners · first-time readers

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THE TRUST LAYER FOR THE SUSTAINABLE AI ECONOMY — IN BRIEF

"Build trust. Move value. Protect the future."

Earth Blockchain is a green, EVM-compatible Layer-1 network built for the buyers of the next decade of blockchain infrastructure: enterprises that must prove things, governments that must verify things, and AI systems that must be provable. This litepaper compresses the Whitepaper v2.0 into its essentials; every claim here is expanded and specified there and in the technical documentation suite.

1. The Problem in One Paragraph

Trust is the most expensive unautomated component of the global economy: audit and reconciliation budgets, document and credential fraud, days-long cross-border settlement, supply chains fragmented across incompatible private databases, and — newly — autonomous AI agents transacting with no verifiable identity or accountability at all. Existing networks solved openness but not procurability: volatile fees, probabilistic settlement, missing compliance primitives, energy profiles incompatible with corporate sustainability mandates, and no native seat for machines (Whitepaper §3).

2. The Answer: One Verifiable Foundation

Earth Blockchain answers with a single coherent stack — eight functional layers on one Layer-1 ledger:

Fig. 1 — The Earth Blockchain Stack, Compressed

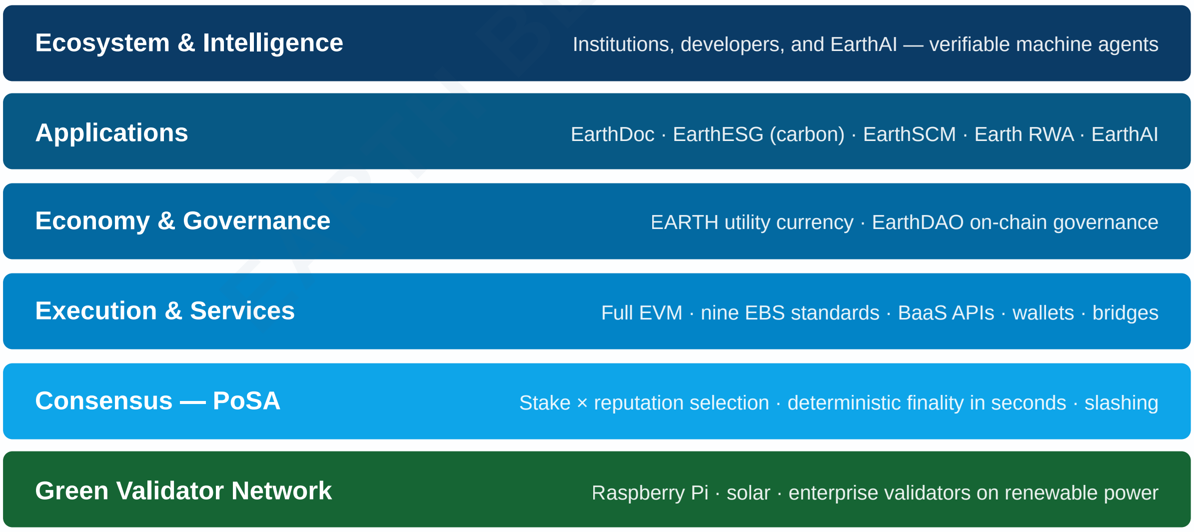

Fig. 1. The full eight-layer architecture, product detail, and formal specifications are in Whitepaper §4–§12 and EB-SPEC-001.

3. Five Properties That Matter to Buyers

Property	What It Means Operationally
Deterministic finality	A confirmation is settlement — ≈3–6 seconds, irreversible by protocol, verifiable by anyone from public certificates. ERP integration without confirmation counting.
Predictable low cost	A damped base-fee market plus BaaS metering in EARTH: line-of-business apps never see a gas dialog.
Sustainable by construction	No proof-of-work anywhere; validators run on single-board and solar hardware with on-chain green attestations — the settlement layer strengthens, not stains, a Scope 3 story.
Compliance-native assets	Nine EBS standards (ERC-lineage compatible) cover fungible value through permissioned RWAs, verifiable credentials, and token-bound accounts — regulated issuance without bespoke contracts.
Machines as first-class actors	EarthAI gives agents on-chain identity, scoped mandates, audit trails, and payment rails — accountability for the machine economy.

4. The Product Suite: Utility on Day One

Infrastructure alone doesn't sell; the suite channels it into five enterprise products on shared standards, so adoption compounds — a supplier verified in EarthSCM presents EarthDoc credentials, reports through EarthESG, finances invoices through Earth RWA, and delegates procurement to an EarthAI agent (Whitepaper §12).

Product	One-Line Value	Revenue Model (in EARTH)
EarthDoc	Any document or credential verifiable in under a second, without contacting the issuer.	Issuance subscriptions + per-verification metering.
EarthESG	ESG reporting and carbon credits on one ledger — every claim linked to its evidence, retirement to disclosure.	Platform tiers + marketplace take-rate + retirement fees.
EarthSCM	Item-level provenance with digital product passports; recalls in minutes, counterfeits exposed.	Passport + event metering + enterprise subscriptions.
Earth RWA	Compliance-gated tokenization of property, invoices, funds — transfers only between eligible holders.	Issuance fees + bps on assets administered.
EarthAI	Verifiable identity, mandates, and audit trails for autonomous agents.	Per-agent fees + verification metering + payment channels.

5. The EARTH Economy in Six Numbers

Parameter	Value
Maximum supply (fixed)	90,000,000,000 EARTH — native utility currency, not a token.
Security allocation	30% (27.0B), emitted on a closed-form decay: two-thirds within five years ($k = \ln 3 / 5$).
Team vesting	12-month cliff + 36-month linear — zero insider float in year one.
Fee burn	$\beta = 30\%$ of base fees destroyed — usage tightens supply; net-deflationary at sufficient volume.
Utility roles	Gas · staking security · governance stake · enterprise settlement.
Governance	EarthDAO: 7-day votes, 48-hour timelock, supermajority for upgrades; the cap itself is not governable.

Full quantitative treatment — derivations, staking equilibrium, cost-of-corruption model — in EB-TOK-007 and Whitepaper §15.

6. Why Now, and Why This Team Structure

Three markets are converging on one requirement — enterprise Web3 infrastructure, sustainability and ESG technology, and the emerging machine economy all need a verifiable, sustainable, operable settlement layer (Whitepaper §3.2). Earth Blockchain serves all three on one ledger, developed by Earth Blockchain Corp. (Wyoming, USA) with Alpha Blockchain Private Limited (India), with protocol authority progressively transferring to EarthDAO on a published decentralization schedule.

7. Roadmap at a Glance

Phase (Q1–Q8)	Headline Milestones
1 · Foundation (Q1–Q2)	Genesis validator network, mainnet hardening, core BaaS, wallets beta, EarthDoc pilots, audits.
2 · Ecosystem (Q3–Q4)	EarthDAO live, all nine EBS reference implementations audited, grants, EarthSCM & Earth RWA pilots, SDK GA.
3 · Enterprise & ESG (Q5–Q6)	EarthESG GA with integrated carbon lifecycle, enterprise validators, canonical bridge, set expansion.
4 · Machine Economy (Q7–Q8)	EarthAI GA, cross-chain messaging, further decentralization and guardian sunset.

8. Where to Go Deeper

Whitepaper v2.0 (canonical design) → EB-SPEC-001 (protocol rules) → EB-DEV-002 / EB-API-003 / EB-SCC-005 (build) → EB-VAL-004 (operate) → EB-ENT-006 (integrate) → EB-TOK-007 (economics) → product briefs EB-PB-009…013 (deploy by use case). All at earth.ooo; live network at scan.earth.ooo.

EB-LITE-008 v1.0 (July 2026). This litepaper summarizes the Earth Blockchain Whitepaper v2.0, which governs in any discrepancy. No performance figures, partnerships, or approvals are claimed beyond the canonical documentation. Nothing herein constitutes financial, investment, tax, or legal advice or an offer of any asset.