DOVU

The Authority Layer

Structuring trust and metering validity for digital economies. An institutional overview of Authority Trail and the **$TRUST** token — the economic layer that proves who had the right to act, in what role, at what point in time.

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REQUEST APPROVE ACT REVOKE VERIFY

Token & protocol overview
An institutional overview

Dual-token architecture
$DOVU — execution · $TRUST — authority

authority.dovu.ai
Not financial, legal, tax, or investment advice

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Most infrastructure records what happened. Authority Trail records whether anyone had the right to make it happen.

> *If you cannot verify who authorised the credit, you should not trust the credit.*

1 A missing layer, not a missing feature

Blockchains natively prove execution — timestamps, hashes, transfers. They cannot independently prove that the actor held the correct, unexpired role at the exact moment of execution. Carbon registries, regulated supply chains, and AI-agent networks all carry this same unpriced liability.

2 A purpose-built economic instrument

$TRUST meters consequential writes to public authority-state on Hedera: identities, role grants, delegations, renewals, and revocations. Reads are free for anyone; writes consume $TRUST. A 100 billion genesis supply with four decimals keeps high-frequency authority writes granular and low-friction at machine scale.

3 A design that strengthens $DOVU

At launch, the only protocol-endorsed public market route to $TRUST is the $DOVU/$TRUST liquidity pair. $DOVU remains the execution token and becomes the primary gateway into the authority economy — the two tokens structurally reinforce, rather than compete with, each other.

$TRUST AT A GLANCE

Protocol role	**Authority Trail token**
Network	**Hedera**
Genesis supply	**100,000,000,000**
Decimals	**4**
Supply growth	**Fixed 1% annual law · compounding**
Mint authority	**Contract create + mint · no other keys**
Fee model	**Free reads · metered writes**
Market route at launch	**$DOVU/$TRUST pair**

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Ledgers prove what happened; they cannot prove who was authorised to make it happen

EXHIBIT 1 — Execution records vs. authority records

What happened

THE STATUS QUO

0x4f7d9d...c1e2	2024-10-27 T10:15:31Z
0x8b2c3a...f5e6	2024-10-27 T10:15:39Z
0x1d0f8b...9a4b	2024-10-27 T10:15:58Z

Most blockchain infrastructure natively records execution. It logs timestamps, hashes, and data transfers — a complete account of events, with no view of entitlement.

THE GAP

It cannot independently prove that the actor held the correct role or permission at the exact moment of execution.

Who was authorised

THE REQUIRED RECORD

AUTHORITY RECORD

ACTOR	vvb.dovu
ROLE	verifier
AUTHORITY	registry.authority.dovu
ACTION TIME	2024-10-27 10:15:39Z
VALID AT ACTION	Yes
CURRENT STATUS	Active

VALID FROM
2024-01-15

EXPIRES
2027-01-15

Enterprises, regulators, and compliance systems require a shared, time-aware record of authority — who held which role, who granted it, when it became valid, and whether it was later revoked.

THE QUESTION

Did this specific actor — human, organisation, or AI agent — hold the correct, unexpired role when they acted?

Authority that cannot be checked independently is not a control — it is a claim. Authority Trail makes that claim verifiable, by anyone, from a single public record.

Source: authority.dovu.ai

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Three structural shifts are converging on the same unsolved question: was the actor authorised?

EXHIBIT 2 — Demand drivers for verifiable authority, 2026 outlook

CARBON MARKET INTEGRITY

$45–250B

Projected voluntary carbon market value by 2050 (vs. ~$7–35B by 2030) — growth that is conditional on credit integrity

Roughly **43% of 2024 credit retirements** still came from low-rated projects. Across 12 major registries and 6,200+ projects, the verifier's accreditation status at the moment of sign-off remains locked in private databases — the anchor point regulators and buyers need most.

AUTHORITY IMPLICATION

Every credit's value depends on whether its auditor held a valid credential at sign-off — a fact that today cannot be independently checked.

REGULATED SUPPLY CHAINS

Jan 2026

EU CBAM definitive regime in force: importers must surrender certificates against verified embedded emissions

CBAM emissions data must now be **verified by accredited third parties**, with scope expanding to ~180 additional steel- and aluminium-intensive products from 2028. Role boundaries across data collectors, reviewers, verifiers, and submitters must survive external regulatory scrutiny.

AUTHORITY IMPLICATION

Regulators increasingly expect a queryable, time-stamped authority record — not a PDF assertion of who was permitted to submit.

AUTONOMOUS AI AGENTS

40%

Of enterprise applications integrated with task-specific AI agents by end-2026 — up from under 5% in 2025 (Gartner)

Gartner projects **15% of day-to-day work decisions** will be made autonomously by 2028, while warning that over 40% of agentic-AI projects may be cancelled by 2027 — inadequate risk controls among the leading causes. Agent scope today is enforced inside each application, invisible to counterparties.

AUTHORITY IMPLICATION

Multi-party agent systems need verifiable scope boundaries: permitted actions and expiry windows that any connected system can check.

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Source: MSCI Carbon Markets (2025); Mordor Intelligence (2025); European Commission, Regulation (EU) 2023/956 and Regulation (EU) 2025/2083; Gartner press releases and 2026 Hype Cycle for Agentic AI (2025–26)

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One protocol, five events — with current status and historical validity preserved on the same public record

EXHIBIT 3 — The authority lifecycle, illustrated with a carbon-market verification body (VVB)

STEP 1 — REQUEST

Holder requests a named role

A validation/verification body requests the verifier role from a recognised authority.

REQUESTED

JAN 2024

STEP 2 — APPROVE

Authority grants the role, opens a window

The registry approves the VVB as verifier with a defined 36-month authority window.

APPROVED — VALID TO JAN 2027

FEB 2024

STEP 3 — ACT

Holder acts while the role is valid

The VVB signs off on projects; each action is recorded alongside its authority status at that moment.

ACTING IN VALID WINDOW

2024 – 26

STEP 4 — REVOKE

Authority changes; prior actions remain visible

The registry revokes the accreditation. Status changes immediately; prior valid actions stay on record.

REVOKED — IMMEDIATE EFFECT

JAN 2027

STEP 5 — VERIFY

Anyone checks current and historical state

Was the VVB authorised at sign-off? Yes. Is it authorised now? No. Both facts, one record.

PRIOR WINDOW VALID · STATUS CHANGED

MAR 2027

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The crucial check. Verification returns current status *and* historical validity from the same public record — so an action signed inside a valid window remains interpretable forever: **valid then, invalid now.**

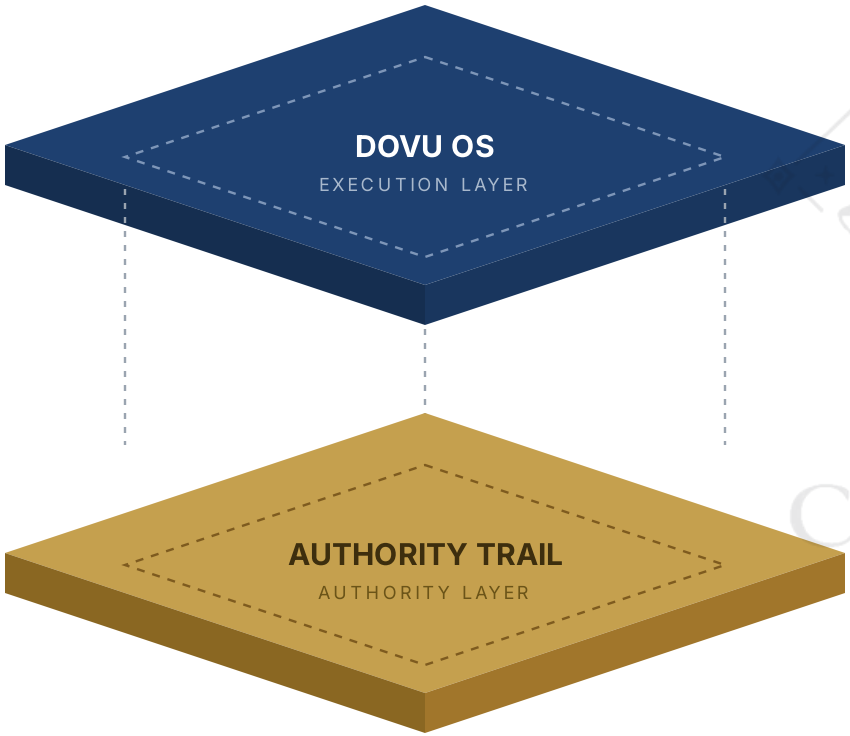
Without this visibility, a revocation lives in one party's internal database. Days pass; downstream systems do not know; assets continue to trade on stale authority until a dispute forces reconciliation of private records.

Source: authority.dovu.ai protocol overview (2026)

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Two interlocking layers: DOVU OS coordinates the workflow; Authority Trail maintains the live permission layer beneath it

EXHIBIT 4 — The interlocking protocol architecture



SYSTEM — DOVU OS

Function: workflow execution, blueprint creation, audit logging, and coordination events.
Token: powered by **$DOVU** — it pays for the execution of *what happened*.

SYSTEM — AUTHORITY TRAIL

Function: identity namespaces, role grants, delegated permissions, revocations, and historical validity checks.
Token: powered by **$TRUST** — immutable proof that an actor *had permission to act*.

HOW THEY INTERACT

A verifier approves a project milestone. DOVU OS records the workflow event, evidence, and audit trail in $DOVU. Authority Trail simultaneously proves — in $TRUST — that the verifier held the correct role at the moment of approval. If the role is later revoked, the historical record remains interpretable: **valid then, invalid now.**

DOVU OS is the first native customer of Authority Trail — but the protocol is standalone. Any application, registry, marketplace, or agent network can query it before accepting an action as valid.

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$DOVU and $TRUST do fundamentally different jobs — and are priced for fundamentally different economic behaviour

EXHIBIT 5 — Token responsibilities compared

	$DOVU — Execution	$TRUST — Authority
CORE FUNCTION	Workflow execution and process-state logging across DOVU OS	Authority-state management and permission validity across Authority Trail
ECONOMIC DRIVER	Volume and frequency of workflows running through the platform	High-frequency authority-state changes — grants, renewals, delegations, revocations
SUPPLY REQUIREMENT	Scaled for macro transaction value	100 billion supply, 4 decimals — metering granular, low-friction writes at machine scale
TARGET STAKEHOLDER	Workflow creators and DOVU OS users	Auditing bodies, credentialing authorities, compliance teams, AI infrastructure providers
QUESTION ANSWERED	What happened — and can the process be reproduced and audited?	Who was allowed to act — and was the role valid at that exact moment?

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THE FUEL

$DOVU runs the engine. It powers every workflow, process, and audit event; its value is tied directly to the volume and frequency of platform activity.

THE LICENCE

$TRUST proves the driver was authorised to operate the vehicle at that moment — independent of how much fuel was used. It validates identity, role, and expiry.

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Separation is an engineering necessity, not a tokenomics choice: four structural reasons one token is not enough

1 Independent demand curves

$DOVU demand tracks workflow volume; $TRUST demand tracks authority-state change. A period of heavy credential issuance may involve almost no workflow execution — and vice versa. One token would let demand pressure from one layer distort pricing on the other: an enterprise managing thousands of auditor credentials should not face volatility driven by carbon-trading volume.

2 Different supply granularity

Authority writes — registrations, renewals, delegations, revocations — must stay economically viable at machine-to-machine scale. $TRUST's 100 billion supply and 4 decimals are sized precisely for this. Forcing these writes through $DOVU would make them prohibitively expensive at scale, or force a $DOVU price point that undermines its role as the execution token.

3 Distinct stakeholder groups

Auditing bodies, credentialing authorities, compliance teams, and AI infrastructure providers may need Authority Trail without ever running a DOVU OS workflow. A separate token lets the authority layer be adopted independently — expanding the addressable market without requiring every $TRUST user to also be a $DOVU workflow user.

4 Structural reinforcement of $DOVU

At launch, the only protocol-endorsed public market route to $TRUST is the $DOVU/$TRUST liquidity pair — no direct fiat, HBAR, or alternative route. $DOVU becomes the primary gateway into the authority economy. Its utility is not diluted by the second token; it is extended by it.

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Key takeaway: forcing granular authority-state writes through an execution token would distort pricing for both systems. You need both layers — priced separately — because running an engine and maintaining a licence serve entirely different economic purposes.

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$TRUST is purpose-built to meter high-frequency authority writes — not designed as a speculative reward token

EXHIBIT 6 — Macro parameters at genesis

100,000,000,000

$TRUST — GENESIS SUPPLY · FIXED 1% ANNUAL EXPANSION CEILING

Authority is not static: roles expire, keys rotate, permissions are delegated, access is revoked. A large genesis supply keeps every one of those state changes granular and low-friction as usage scales across humans, organisations, devices, AI agents, and machine-to-machine systems.

NETWORK	Hedera — public, high-throughput consensus suited to frequent, low-cost authority-state records
SUPPLY TYPE	100B genesis supply; maximum supply expands only under the `fixed 1% annual issuance law` — an immutable contract constant, not a settable rate
MINT AUTHORITY	The audited issuance contract `creates the token and holds its only key` — no founder, treasury, or team wallet can mint, and no admin key ever exists
PRIMARY UTILITY	Metering consequential writes to public authority-state: identity registration, role-bank publication, approval, denial, revocation, renewal, and authority-state mutation
MARKET ACCESS AT LAUNCH	$DOVU/$TRUST liquidity pair — the only protocol-endorsed public market route; no direct fiat or HBAR route planned at launch
RELATIONSHIP TO $DOVU	$DOVU powers workflow execution; $TRUST powers authority validity

4
DECIMALS — HIGH-FREQUENCY, LOW-COST WRITES

10^{15}
INITIAL BASE UNITS (1 QUADRILLION)

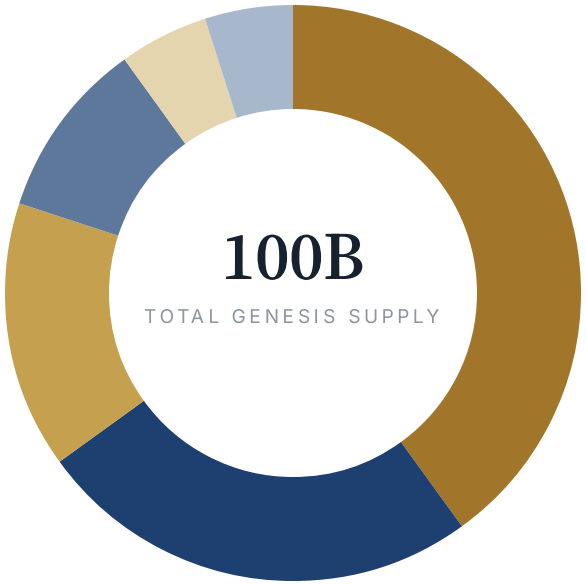
1%
FIXED ANNUAL SUPPLY LAW — COMPOUNDING CEILING

Parameters subject to change before final deployment.

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Allocation is weighted toward the ecosystem that operates the authority network — with mandatory cliffs on every major bucket

EXHIBIT 7 — Genesis allocation and vesting principles, 100B $TRUST



BUCKET	%	PURPOSE	VESTING
Authority Trail Ecosystem	40	Developer grants, registrars, indexers, verifier networks, protocol tooling	6-mo cliff · 4-yr linear / milestone release
Community Participants	25	Time-vested allocation for eligible ecosystem participants	Mandatory 6-mo cliff · 12–24-mo linear, claim-based contract
Treasury & Protocol Reserves	15	Legal, audits, security, operational runway, long-term maintenance	12-mo cliff · 4-yr controlled release, multisig
Team & Contributors	10	Long-term alignment for core team and future hires	12-mo cliff · 4-yr linear monthly vest
Liquidity & Market Access	5	Initial and future liquidity support	Per approved launch / liquidity plan
Strategic Partners & Advisors	5	Enterprise, standards, and infrastructure collaborators	6-mo cliff · 2–4-yr linear / milestone release

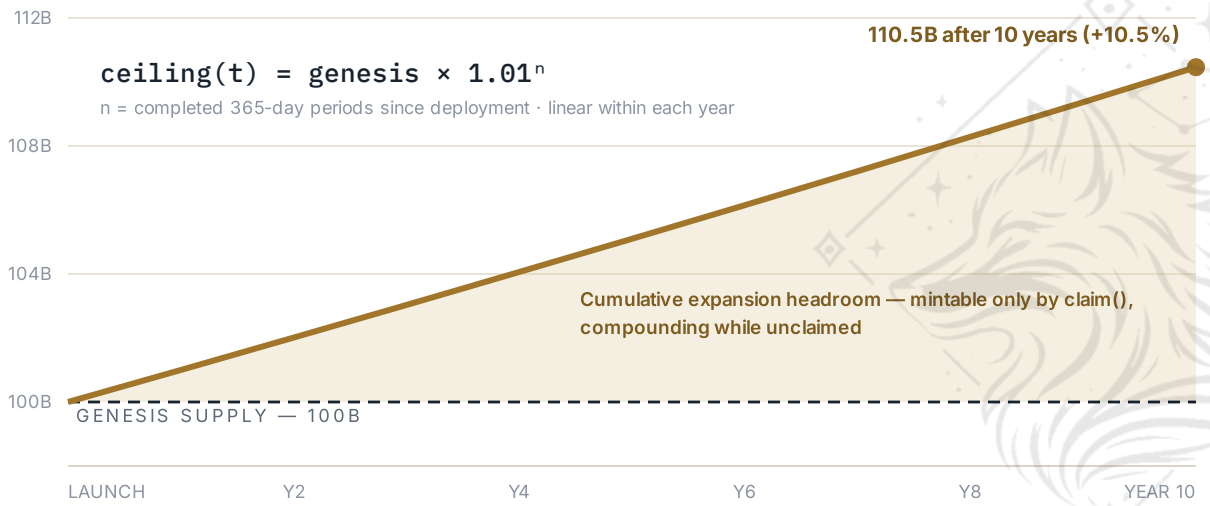
Genesis is minted and distributed by the token contract itself at deployment — buckets are funded contract-to-contract, with no intermediate custody. No community tokens are claimable before the 6-month cliff expires; claims are user-initiated, and the contract transfers only the vested, unclaimed balance. Effective circulating supply at launch is finalised after legal, liquidity, and contract-deployment review.

Allocations and vesting schedules subject to change before final deployment.

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Supply growth is a law of the system — a fixed 1% annual ceiling that gives an economy of agents room to grow

EXHIBIT 8 — The 1% law of growth: maximum supply as a pure function of time



The maximum supply permitted to exist at any moment. The rate is an immutable constant in the audited issuance contract; compounding applies at each 365-day anniversary of deployment, and within each year the ceiling grows linearly, pro-rata per second.

ONE ACTION, NO PARAMETERS

The treasury's only issuance action is **claim()** — it mints exactly what the law has released to date, and nothing more. No amount argument, no rate to set, no schedule to amend, no vote to hold: the curve decides.

UNCLAIMED HEADROOM WAITS — AND COMPOUNDS

Expansion the treasury does not claim is never minted: it accrues under the curve and is non-circulating by construction. The single public invariant — **existing supply ≤ genesis × 1.01ⁿ** — is checkable by anyone, forever.

BURN OPTIONALITY — UNDER CONSIDERATION

Burn functionality may be included for future optionality: fee routing could direct a share of metered writes to burns, and any actor could choose to permanently retire $TRUST it does not need. *The law sets only the ceiling — actual supply can sit anywhere beneath it.*

WHY EXPANSION AT ALL — ROOM FOR AN ECONOMY OF AGENTS TO GROW

The authority economy is built to compound: every AI agent deployed, every organisation onboarded, every device and credential brought on-chain is a new identity — with roles to grant, renew, delegate, and revoke, and every one of those writes consumes $TRUST. Freeze supply forever and the metering medium grows scarcer as usage grows, taxing use and rewarding hoarding. A fixed 1% annual headroom funds identity and agent growth at machine scale, while dilution stays bounded by mathematics — modest, predictable, and immune to discretion.

A LAW, NOT A LEVER

No rate-setting, no exceptional path, no timelocks, no pause — nothing to propose, nothing to vote on. Maximum supply can be charted forever from the formula alone.

NON-DISCRETIONARY BY CONSTRUCTION

The issuance contract creates the token at deployment, mints the 100B genesis, and distributes it to the published buckets itself. It holds the token's only key — no admin, pause, freeze, wipe, or KYC key exists, so nothing outside the law can mint or touch a balance. Ever.

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The fee model is simple by design: anyone can read authority-state for free; changing it costs $TRUST

EXHIBIT 9 — Open to read, metered to write

READS — FREE

Free to query authority-state

Anyone can inspect current or historical authority without paying — buyers, regulators, auditors, and counterparties verify independently, without relying on DOVU as the only source of truth.

WRITES — COST $TRUST

Actions that change state require $TRUST

Cost appears only when shared protocol state is created or changed. "Consumed" means paid into protocol-defined fee routes.

METERED WRITE CATEGORIES

01 **Identity & namespace creation**
Registering authority identities, public namespaces, organisation profiles, agent and device identities

02 **Authority-state mutation**
Adding, updating, delegating, renewing, suspending, or revoking authority records

03 **Role-bank publication & updates**
Publishing named role catalogues an authority may approve, deny, revoke, or renew

04 **Time-bound role occupancy**
Maintaining grants for defined periods — longer-lived or higher-value authority can carry higher fees

05 **High-volume verification access**
Bulk verification, indexing, API access, and enterprise authority checks, per implementation

WHERE FEES FLOW

Registrar & verifier incentives
Supporting the participants who maintain and police the authority network

Infrastructure rewards
Indexers, node operators, and providers keeping authority-state queryable

Protocol treasury
Audits, security, integrations, grants, and long-term maintenance

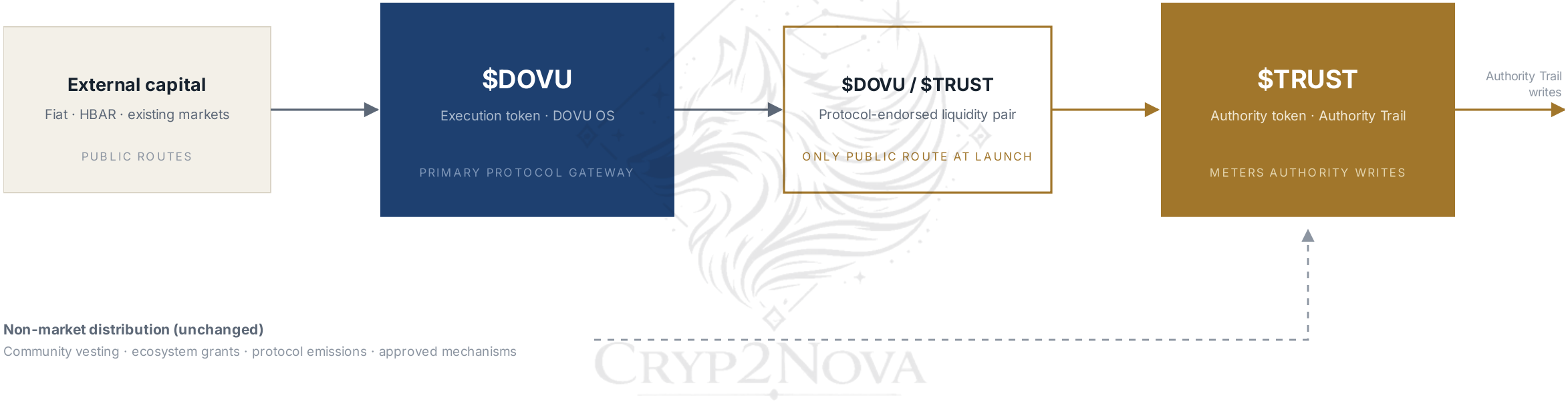
Final routing may also include burns or other approved mechanisms. The goal: Authority Trail becomes increasingly funded by real protocol usage over time.

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At launch, the only protocol-endorsed market route to $TRUST runs through $DOVU — the gateway into the authority economy

EXHIBIT 10 — Structural access design at launch



Structural access design — not a price-parity claim. The pair does not imply price support or guaranteed market value. Its purpose is to make $DOVU the primary protocol gateway into the Authority Trail economy.

Strategic outcome: users, developers, agents, and organisations that require $TRUST for authority actions acquire it through $DOVU-denominated liquidity at launch — structurally reinforcing both tokens.

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Three launch markets share one liability problem: proving the right actor held the right permission at the right time

EXHIBIT 11 — Authority Trail applied

USE CASE 01

Carbon credit verification & auditor credentialing

THE PROBLEM

No tamper-evident record exists of whether an auditor held a valid, unexpired credential at the moment of sign-off — leaving retroactive challenges from regulators and buyers with no anchor point.

WITH AUTHORITY TRAIL

Credentials are registered on Hedera; role, issuing body, validity period, and scope are public. If a credential is later revoked, history stays interpretable — and buyers, registries, and regulators verify freely.

WHO FUNDS THE WRITES

Registries and credentialing authorities consume $TRUST each time a credential is created, granted, renewed, or revoked. Reads — every verification check — stay free.

$TRUST-METERED WRITES

NAMESPACE CREATION · ROLE PUBLICATION · RENEWALS · REVOCATIONS

USE CASE 02

AI agent authorisation in automated workflows

THE PROBLEM

Enterprises deploying agents across multi-party systems have no on-chain mechanism to enforce or verify agent scope at the point of action — and no auditable record when an agent exceeds its permissions.

WITH AUTHORITY TRAIL

Each agent is a registered authority identity with a published role bank. Actions are checked against live authority-state; expired or revoked roles are blocked or flagged. The full grant–update–revoke history is queryable for compliance, insurance, and liability.

WHO FUNDS THE WRITES

Agent operators and platform vendors consume $TRUST to register agent identities and keep role banks current — at machine scale and machine frequency.

$TRUST-METERED WRITES

AGENT IDENTITY · ROLE BANKS · PERMISSION GRANTS · EXPIRY RENEWALS

USE CASE 03

Supply-chain role delegation for CBAM compliance

THE PROBLEM

CBAM requires verifiable chain-of-custody for carbon reporting. Role boundaries across data collectors, reviewers, verifiers, and submitters cannot satisfy external regulatory scrutiny from inside internal systems.

WITH AUTHORITY TRAIL

Manufacturers publish role banks on Hedera; assignments carry start dates, expiry windows, and delegated scope. Regulators receive a queryable, immutable on-chain authority record — not a PDF assertion.

WHO FUNDS THE WRITES

Manufacturers and importers consume $TRUST to publish role banks and delegation records across their reporting chain. Regulator queries cost nothing.

$TRUST-METERED WRITES

ROLE-BANK PUBLICATION · DELEGATION · SUBMISSION RECORDS

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Authority Trail launches from production infrastructure: DOVU OS already secures verified, high-stakes programmes

EXHIBIT 12 — Selected DOVU OS programmes in production, 2026

$1.1B

Veterans Carbon Holdings, US

Programme compensating US farmers for soil carbon sequestration — 55% of revenue to farmers, fully third-party verified

100K+

Tonnes CO_2e verified, Amazon Basin

Ketrawe Foundation and Vaca Diez reforestation and conservation programmes in Bolivia, 100% verified credits

74,200

Hectares under protection

Savimbo — world-first certified biodiversity credits direct from 55 Indigenous nations and 300+ smallholders

20M

End-of-life vehicles, India

MMCM traceable vehicle-recycling carbon credits with government-backed verification, 41+ dMRV data points

LIVE TOKEN	DEPLOYED PRODUCT	NEW LAYER
$DOVU	**DOVU OS**	**Authority Trail + $TRUST**
Execution token already in public markets, powering DOVU OS workflows	Production verification platform behind the programmes above	Public authority-state protocol launching on this installed base

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WHY THIS MATTERS FOR $TRUST

These programmes already generate the exact events Authority Trail meters: verifier sign-offs, credential renewals, delegated review roles, and regulator-facing submissions. **DOVU OS is the first native customer of Authority Trail** — demand for authority writes begins with live, revenue-bearing workflows rather than projections.

AN OPEN PROTOCOL, NOT A CAPTIVE ONE

Authority Trail is designed as a standalone protocol any system can query — registries, marketplaces, enterprise software, and agent networks **with no DOVU OS relationship**. That independence is what expands the addressable market beyond DOVU's own platform.

Hedera | BCarbon | hashgraph.name | Ecosystem participants

Source: dovu.ai (2026); authority.dovu.ai. Figures as published by DOVU and programme partners.

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$TRUST has one job: metering consequential writes to public authority-state — and it makes no promise beyond that

WHAT $TRUST IS DESIGNED AS

- **Infrastructure for accountability** — the economic layer beneath trusted workflows and authority-sensitive systems
- **A metering instrument** for identity registration, role grants, delegations, renewals, and revocations on Hedera
- **A usage-funded protocol** — increasingly financed by real authority activity, with free public reads for anyone
- **A structural complement to $DOVU** — accessed through the $DOVU/$TRUST pair at launch, extending rather than diluting $DOVU's role

WHAT $TRUST DOES NOT REPRESENT

- Equity in DOVU Global Ltd, or any claim on company revenue, profits, dividends, or assets
- A guarantee of yield, income, buybacks, price support, liquidity, or future appreciation
- A speculative reward token, a passive staking product, or primarily a governance instrument
- A promise of financial return from participation in Authority Trail
- A finalised design — token allocations, supply parameters, and contract mechanisms remain subject to change before final deployment

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Execution and accountability, unified.

authority.dovu.ai · dovu.ai

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