

Spesbas Republic — Master Whitepaper (Public Edition — v1.0)

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Networks: Spesbas Testnet **771023** → Spesbas Mainnet **771024**

Native Coin: **DBAS** (*fixed 100,000,000 supply; 18 decimals; burn-only*)

Primary Runtime Asset: **LC — LoopCash** (*Asset ID 1, 6 decimals; spend-only; merchant-restricted*)

Stable Rail: **DBAST** (*Asset ID 3, 6 decimals; treasury/issuer-backed; phased rollout*)

- **DBAST-USD / DBAST-EUR** — fiat-backed, EMT grade, **1:1 redeemable at par** with segregated cash & T-bill reserves; **on-chain Proof-of-Reserves**; circuit breakers.
- **DBAST-X** — over-collateralized crypto-backed rail for DeFi contexts (*separate risk class; not marketed as an EMT in the EU*).

Community Token: **ALTO** (*Frontier/EVM token; gas is DBAS*)

National Identity: The **Spesbas Republic** — a sovereign **nation-in-software** with citizens, officers, a cabinet, cities, scoreboards, and constitutional limits.

Foundational Reference: *The Spesbas Republic Declaration of Independence & Founding Charter* (constitutional principles and non-political mandate).

Core Thesis: *PoCom anchors blockspace to real-world trade: verified commerce loops **burn DBAS** at rate **k**, **mint LC** at markup **(1+r)**, and route commissions transparently; once the **never-burn floor** is reached, **Eco-Mode** sustains commissions from Mining Power budgets and Desk/PSM revenues **without inflating LC**.*

Money Roles: **DBAS** is the hard reserve and gas; **LC** is the spend-only commerce credit.

Standards Stewardship — PoCom Foundation (non-profit).

The PoCom Foundation is an independent, non-profit stewarding the **PoCom** (Proof-of-Commerce) and **DBAS** (Demand-Based Auto-Recycling System) standards and their **Yellowpaper**. The Foundation maintains open specifications, reference code, and assurance programs. Spesbas Republic is the first production implementation of these standards under license — proving that commerce-anchored blockspace can deliver *prosperity with proof*.

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1) Vision & Mission

Vision — A Nation Where Proof Becomes Prosperity

*(A programmable digital nation **where verified commerce powers money**—burn DBAS, mint LC, re-spend, repeat.)*

We envision a sovereign, nation-in-software where every honest receipt becomes a right to prosper. Money is earned by usefulness, not issued by whim. **PoCom** turns real commerce into monetary physics (**burn DBAS → mint LC → re-spend LC**), while **Eco-Mode** sustains commissions **without inflation**. Citizens hold **Passports (SBTs)**, cities run on **transparent scoreboards**, and policy is **software with timelocks**—not speeches.

In short: the world's first Republic measured in **closed loops**, not headlines.

Mission — Make Prosperity Verifiable, Universal, and Unstoppable

1. **Anchor value to proof.** Ship and steward **PoCom** so verifiable **M1→M4** lineages mint LC and burn DBAS—never the other way around.
2. **Protect money's purpose.** Keep **LC** spend-only (merchant allow-list), **DBAS** hard and finite (burn-only with a never-burn floor), and **DBAST** pegged with policy-gated **PSM**.
3. **Govern with humans-in-the-loop.** Run **tri-cameral** governance (Stake, Citizens, Council), **MACI-style privacy**, and **immutable logs** for all hard powers.
4. **Deploy city by city.** Use the **City Playbook** to go live in 14 days: **KYC → spend → MP → SBV → restock → LoopScore**. Publish weekly scorecards.
5. **Put citizens first, forever.** One wallet: **Nexus Super-App** (Wallet + POS + Mining + 5 Marketplaces + Officers + Metaverse HQ). One identity: **Republic Passport (SBT)**.
6. **Design for the endgame.** When we hit the **never-burn floor**, switch to **Eco-Mode**: commissions powered by **MP budgets + Desk/PSM** revenues—**zero LC inflation**.
7. **Be radically auditable.** Public lockboxes, cabinet OKRs, and admin logs. If we can't prove it on-chain (or in code), we don't claim it.

The Six Pillars of the Republic

PoCom • LC (spend-only) • DBAS (hard reserve) • Eco-Mode • Civic SBTs • City OS

Foundational Reference: *The Spesbas Republic Declaration of Independence & Founding Charter.*

2) Executive Summary

Spesbas is a nation-in-software where verifiable commerce becomes money. **PoCom** burns **DBAS** and mints spend-only **LC** on closed loops, with **Eco-Mode** sustaining rewards without inflation.

Spesbas is a nation-in-software—a programmable digital nation where verifiable commerce turns into monetary physics (**burn DBAS → mint LC → re-spend LC**), governed by timelocks, proofs, and **human-in-the-loop** safeguards.

Spesbas is a sovereign, **Substrate-based** blockchain engineered for the commerce era of crypto. Where Bitcoin proved digital money and Ethereum unlocked programmability, Spesbas uses **PoCom**: an economic-policy layer that turns verifiable receipts and replenishment into on-chain monetary physics—**burn DBAS → mint LC → re-spend LC**—with governance guardrails and post-cap sustainability. The **Spesbas Nexus** super-app unifies wallet, payments/POS, mining, five marketplaces, and a metaverse HQ so everyday people and merchants can participate from day one.

Why it matters: value accrues to assets tied to proven usage. Spesbas measures usage as **closed commerce loops** and rewards the builders—citizens, merchants, and city leadership—without endless inflation.

For formal math and invariants, see the **PoCom & DBAS Yellowpaper** (*PoCom Foundation, non-profit; see TA-15 for the open-standard blueprint*).

Full Officer roster: see **§21 Officers & Team** and the official website.
See §22 for Republic-wide Policy & Conduct.

3) Network & Identity (at a glance)

- **Runtime family:** Substrate (stand-alone), EVM compatibility via Frontier.
- **Consensus & finality:** Hybrid PoA + DPoS overlay (policy-gated authority set) with **GRANDPA** finality; **6s** target slots.
- **Address format:** **SS58 55**.
- **On-chain upgradability:** fork-less runtime upgrades governed by tri-cameral process (Stake House, Citizens House, Council/Finality House).

4) PoCom — Proof-of-Commerce (Concept)

Definition. PoCom is a governance-aware protocol that accepts commerce loops as inputs, enforces mint/burn economics, and prevents capture with policy guardrails.

- **Inputs:** four-leg lineage **M1→M2→M3→M4** (POS sale → restock → production → raw inputs) with receipts and attestations.

- **Validation:** AI Loop Oracle produces a confidence score and reasons; officers review gray cases; all decisions are logged.

- **Mint/Burn:**

- Burn $B = k \times T$ DBAS, where T is the **M1** sale in DBAS terms.

- Mint $LC_{total} = B \times (1 + r)$ LC.

- Distribute B LC to principal (**M4**) and $r \times B$ LC as commissions across participants (buyer + **M1..M4**) and civic (**Ambassador 40% · SMA (Merchants Association) 20% · SUHA (Users & Holders Association) 20% · SBV 20%**)."

- **Transfer predicate (LC):** spend-only to **merchant allow-list** or exempt receivers (treasury/desk/sinks). **P2P LC is disallowed.**

- **Eco-Mode:** when burnable DBAS reaches the **never-burn floor** (e.g., 15% of supply), **LC minting pauses**; commissions continue via **MP budgets** and **Desk/PSM** revenues. *No LC inflation.*

*Formal invariants and event schemas: Yellowpaper §§2–4. See also **TA-15** (Open-Standard Blueprint).*

5) Civic Money

5.1 DBAS — Native Reserve & Gas

- **Supply:** 100,000,000 fixed at genesis; **no mint ever.**

- **Uses:** gas, governance staking/votes (via **veDBAS**), desk inventory, reserves.

- **Deflation:** programmatic burns on loop close and policy sinks; **never-burn floor** preserved. (See TA-05.)

5.2 LC — LoopCash (Spend-Only)

- **On-chain asset:** Asset ID **1**, **6 decimals**; wallet-visible globally.

- **Mint:** only on validated loop close (formula above).

- **Spend:** LC → certified **merchants** (or exempt sinks) only; wallets enforce UI; runtime enforces rules.

- **Commission splits:** participants vs. civic pools (weights governed and transparent). (See TA-05.)

5.3 DBAST — Stable Rail (Two-Line Family)

PoCom links real receipts to mint/burn under tri-cameral guardrails; DBAST rails are EMT-grade (1:1, fully reserved, Proof-of-Reserves).

DBAST-USD / DBAST-EUR (EMT-grade, 1:1 fiat-backed, redeemable at par).

- **Issuer:** EU EMI partner (or our license later).

- **Reserves:** **100% cash + short-dated T-bills** in segregated, bankruptcy-remote accounts; no lending, no rehypothecation.

- **Mint/Burn:** mint only against **cash-in**; burn on redemption; **on-chain circuit breaker** blocks mint if real-time **PoR < 100%**.
- **Par redemption:** 1:1 in the reference fiat within service windows (**MiCA EMT** requirement).
- **Transfer policy:** jurisdictional/KYC gates as required.

DBAST-X (*over-collateralized, crypto-backed; not an EMT*).

- Separate contract/branding; **>125%** collateral; on-chain liquidations; for **DeFi** contexts. Not marketed as a “stablecoin” in the EU.

5.3.1 Proof-of-Reserves & Redemption Policy

- **Daily** bank API confirmations (cash) + custody statements (T-bills).
- **Monthly** independent attestations (ISAE 3000/3402); **quarterly** audits as scale grows.
- **On-chain PoR oracle** to a Reserve Registry pallet (Merkle-hashed reports, circulating supply, cash/T-bills by ISIN, custodian breakdown).
- Public reserve addresses if tokenized bills used; **privacy-preserving proofs** for bank balances.
- **Redemptions:** published SLAs & queues; transparency by bucket during stress. (*See TA-11.*)

5.3.2 Risk & Incident Controls

- **Circuit breakers:** halt mints on stale PoR, reconciliation gaps, or **PoR < 100%**.
- **PSM guardbands:** tight swap bands for **DBAST ↔ LC/DBAS**; **PSM auto-shuts** if PoR < 100%.
- **Disclosures:** banks/custodians list, concentration limits, cut-offs, force-majeure playbooks. (*See TA-11.*)

5.3.3 Rollout (Phased)

- **Phase 0 (now):** use **USDC** rails for fiat settlement inside Desk/PSM.
- **Phase 1:** launch **DBAST-USD/EUR** (EMT-grade, 1:1, redeemable at par) via EMI partner + live PoR dashboard.
- **Phase 2:** optional **DBAST-X** (crypto-backed), clearly segregated risk class.

Answer to parity: For **DBAST-USD/EUR**, yes—**strict 1:1 at par and redeemable**, per **MiCA EMT** rules. **DBAST-X** targets \$1 but is **not** an EMT.

Venue & Liquidity Policy (public note).

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DBAST-USD/EUR (EMT-grade) are designed as payments/settlement rails with par redemption and full reserves. Liquidity is provided primarily via the **Desk/PSM** and regulated partners; any venue support (if present) must satisfy issuer/EMI policy and jurisdictional requirements and is **not promoted for speculation**.

DBAST-X (crypto-backed) may have **DEX** pairs under guardbands and clear risk disclosures. For listing policy across all assets, see **§18 Exchange & Liquidity Policy**. (*See TA-11.*)

5.4 ALTO — Community Token

- **Home:** Frontier/EVM (SRC-20 / ERC-20-compatible).
- **Design:** Hyper-deflationary token built on Spesbas Blockchain with **policy-controlled sinks**,
- **Role:** a community token that powers growth incentives (ambassadors, builders, events, listings, quests) and community governance programs. *Not money, not a stable rail. Just a token.*

Supply & Units

- **Hard cap:** 1,000,000,000,000,000 ALTO (*1 quadrillion*).
- **Decimals:** 18.
- Circulating/initial allocations, locks and vesting are published in the **ALTO Litepaper (R12)**.

5% transfer tax (deflationary & community-funded)

Applied to non-exempt transfers; contract enforces exemptions for Treasury, burn, PSM/Desk, liquidity manager, and other policy addresses.

Default routing (governance-tunable):

- **2.0% → Burn** (0x...dead; hyper-deflationary)
- **1.5% → Community Treasury** (multisig managed by the governance-selected **ALTO Stewardship Team**)
- **1.0% → Liquidity Manager** (buy-back-and-liquify or depth incentives on the primary DEX, per policy)
- **0.5% → WorkForgeX/DAppsForgeX Rewards** (weekly distributions to contributors)

Governance & management

- **ALTO Stewardship Team (AST):** elected/replaceable by on-chain governance; operates a time-locked multisig; publishes quarterly reports and budgets.
- **Parameters** (tax rate, routing weights, exemption lists, max-tx/position limits) are governance-controlled; contract is **non-upgradeable**, with parameter setters behind timelocks.
- **Anti-abuse guards:** optional anti-snipe window at launch, max-tx/max-wallet limits, and **emergency pause** (governance-gated).

Interoperability & policy

- Independent of PoCom/LC economics; **does not** affect DBAS burn/LC mint.
- Desk/PSM, bridges, and other system contracts are **tax-exempt** to avoid recursive fees.
- Listings/market-maker programs run through **AST** with public budgets.

Full spec

For distributions, addresses, vesting, audits, and DEX/liquidity policy, see **R12: ALTO Community Token Litepaper & Technical Spec (v1.0)**.

6) The Commerce Loop (M1→M4)

1. **M1:** Citizen buys from Merchant (POS).
2. **M2:** Merchant restocks from Supplier.
3. **M3:** Supplier buys from Manufacturer.
4. **M4:** Manufacturer buys raw inputs.

Closure: when the full lineage is observed within time windows and passes the Loop Oracle threshold, the chain **burns DBAS** and **mints LC** per §4.

Anti-wash & integrity: attestation SBTs, per-merchant caps, time-locks on risky flows, officer audits, and public variance reports. (*See Yellowpaper §§2–4; TA-15.*)

7) SEE Mining (Sources, Effort, Economy)

SEE Mining — Spesbas Ecosystem Evolution (SEE) — is the Republic’s rewards engine that lets citizens, merchants, and builders **mine DBAS** through verifiable participation.

Rooted in an ecosystem designed to **evolve without end**, SEE Mining turns real work and closed commerce loops into DBAS rewards, compounding prosperity across the network.

- **Method-1: Free Mining** — daily MP drip with anti-abuse windows (device attestations, rotating proof windows, cooldowns). *Read more: R13.*
- **Method-2: Mine with Capital** — staking / liquidity / emissions → MP accrual with policy bands, inventory caps and slashing on abuse. *Read more: R14.*
- **Method-3: Mine with WorkForgeX** — community & professional work (curation, moderation, R&D, translation, events, node ops) with cryptographic proofs and reviewer attestations; writes to the MP ledger. *Read more: R15.*
- **Method-4: Mine with DAppsForgeX** — developers, merchants, implementers, and users earn MP from dApp usage, retention, and security signals (telemetry bundles, fraud checks). *Read more: R16.*
- **Method-5: LoopCash** — participation in the commerce loop unlocks MP and commission pathways (M1..M4 lineage bonuses, anti-wash guards). *Read more: R17.*

Conversion: MP → DBAS at governance-set policy rate with **per-epoch caps & guardrails** (rate limiter + queue fairness). *Read more: R18.*

Referral (one binding across everything): uplines earn **instant MP** bonuses when downlines convert; unused bonuses expire **00:00 UTC** to keep growth active and honest. *See R18.*

8) Five Marketplaces (built into the Super-App)

1. **Spesbas Hub (Physical)** — offline-first POS for in-store QR, receipt scans, printer support, cashier roles, refunds, tax buckets, and end-of-day batch sync. Device attestation + merchant SBT required; emits **M1Sale**, **RefundIssued**, **ReceiptAnchored**. *Read more: R19.*
2. **Spesbas Emporium (Online)** — LC-first checkout, split-pay, escrow & dispute flows, order lifecycle webhooks, merchant settlement to DBAST/fiat via Desk/PSM. Emits **M1Sale**, **EscrowReleased**, **ChargebackResolved**. *Read more: R20.*
3. **Spesbas DApps Depot** — curated dApps with developer allow-lists, telemetry bundles for DAppsForgeX, fraud filters, version signing, and uninstall churn scoring. Emits **AppListed**, **UsageSignal**, **SecurityFlag**. *Read more: R21.*
4. **Spesbas NFT Gallery** — SRC-721/1155 minting, auctions, royalties, and SBT registries (Passport/Badges/Device Certs). On-chain provenance and revocation rules for SBTs. Emits **Mint**, **Transfer**, **SBTIssued**, **SBTRevoked**. *Read more: R22.*
5. **Spesbas Metaplaza** — 3D commerce inside the Metaverse HQ (venues, land, suites). Spatial checkout → LC/DBAST desk integration, avatar inventory bindings, event ticketing (SRC-1155). Emits **M1Sale3D**, **TicketScanned**, **VenueSettlement**. *Read more: R23.*

All purchases emit M1 events; restock/production/raws advance lineage toward loop close (see §6) and feed WorkForgeX/DAppsForgeX signals (see §7, R15–R16).

9) Governance — Tri-Cameral & Guard-railed

PoCom links real receipts to mint/burn under tri-cameral guardrails; DBAST rails are EMT-grade (1:1, fully reserved, Proof-of-Reserves).

- **Stake House** (DPoS + veDBAS time-boosted voting power).
- **Citizens House** (1-person-1-vote via Citizenship SBT, MACI-style privacy).
- **Council / Finality House** (HSM-sealed keys, timelocks, emergency powers).

Classes & Timelocks (policy defaults):

- **Operational:** Stake majority + Council majority; **7d** timelock.
- **Monetary/Policy:** Stake **3/5** + Citizens majority + Council **2/3**; **10d** timelock.
- **Constitutional:** Stake **2/3** + Citizens **2/3** + Council **2/3**; **14d** timelock + **72h** public veto; must pass twice in consecutive eras.
- **“DBAST Controls.”** Council-gated mint/redemption **kill-switches** tied to **PoR (<100%)**, **24–72h** timelocks for parameter changes, and **mandatory on-chain event logs** for all stable-rail actions.
- **Emergency PoA:** Council **2/3**; auto-expires after **10k** blocks.

Full thresholds, veto and delegation rules in TA-08.

10) Officers of the Spesbas Republic — Roles & Recruitment (Public)

Purpose. Officers are the human layer that keeps PoCom/DBAS lawful, auditable, and citizen-first. Each Officer holds a scoped **OFFICER_TOKEN** (role + name) and all actions are immutably logged. Powers are guard-railed by governance (tri-cameral), timelocks, and circuit breakers.

Deep details: See **R12. Spesbas Republic Officers Handbook (Public Summary)** for role charters, KPIs, selection, oath & code, revocation, and compensation bands.

10.1 National Cabinet

- **President** — Head of State, final authority; hard powers (global pause/unpause; veto; treasury dials; officer issuance/revocation).
- **Vice President** — Cross-ministry execution & risk; runs Exec Review; clears interlocks.
- **Prime Minister** — Delivery lead; release cadence; SLO/MTTR enforcement.
- **CTO** — Platform, infra, security, deploy gate, bug bounty.
- **CTR (Chief Treasury & Reserves)** — FX Desk, SBV, convert/PSM guardbands, PoR liaison.
- **CKCO (Chief KYC & Compliance)** — Identity policy, 3-step ops, appeals.
- **Chief Ambassador** — City growth; ambassadors; territory coverage.
- **Chief Auditor** — Independent oversight; weekly variance; integrity reports.
- **CDPO (Chief Data Protection Officer)** — DPIA, retention map, privacy requests.
- **DPPC Commandant (defense-only)** — SOC/CSIRT, incident runbooks.
- **Ministers (12 portfolios)** — Peace & Conflict; Wealth & Economy; Security & Defense; Energy & Infra; Health & Human Flourishing; AI & Conscious Tech; Culture/Language/Identity; Space/Interplanetary; Spiritual Affairs; Education & Intelligence; Citizenship & Global Engagement; Protocol/Inter-Nation.
(Charters & OKRs: see **R10 Cabinet OKRs**.)

10.2 National Operational Officers

- **Treasury Desk Ops Lead** — Executes desk quotes within CTR policy.
- **PoR Registrar** — Curates Proof-of-Reserves feeds & attestations.
- **PSM Controller** — Monitors PSM bands; triggers circuit breakers per policy.
- **Deployer Gatekeeper** — Enforces production greenlights (with President).
- **National KYC Officers** — Escalation queue handling; audits gray cases.
- **Incident Commander (CSIRT)** — Coordinates P1/P2; banners; postmortems.
- **Data Steward** — Sensitive dataset access & retention controls.
(Scopes & logs: see **R9 System Map**, **R34 Officers Handbook**.)

10.3 City Officers

- **Ambassador (one per city)** — City lead; merchant activation; events; weekly scorecards.
- **Governor (per district)** — Local ops, permits/logistics, venue management.
- **SMA Chair (Merchants Association lead)** — merchant retention/SLAs; POS uptime; Split-Pay posterization.
- **SUHA Chair (Users & Holders Association lead)** — household mining drives; referral trees; school/religious ties.

- **City KYC Officers** — Step-1/2/3 decisions; duplicate/name/seat guards.
- **DPPC City Detachment Lead** — Event/VIP protection; fraud triage; secure comms.
- **Auditor-View Officer** — Read-only oversight; variance sampling.
(*Playbooks & KPIs: see R11 City Playbook.*)

SMA/SUHA Membership Defaults. Membership is represented by non-transferable Association SBTs issued per city:

- **SMA SBT:** requires **Merchant SBT** + $\geq N$ valid receipts in the last 30 days.
- **SUHA SBT:** requires **Passport SBT** + either ≥ 1 transaction in the last 30 days or **MP** > 0.

Chairs are elected (MACI-style) each quarter; budgets are funded from the civic commission split (weights governed). Appeals and removal follow the Officers Handbook in *R34. Associations Charter (SMA/SUHA)*.”.)

10.4 Open Positions (current hiring waves)

- **Q4-2025 (Pilots):** 3 City Ambassadors, 6 KYC Officers, 1 Treasury Desk Ops, 1 PoR Registrar, 1 PSM Controller, 3 Merchant Success Leads.
- **Q1-2026 (Scale to 25 cities):** 25 City Ambassadors, 50 KYC Officers, 10 Merchant Success, 5 Auditor-View Officers, 5 DPPC City Leads.
- (*Application & selection via DigiGov proposals + Officers Console; background/KYC required.*)

10.5 Powers, tokens, and accountability (how it’s enforced)

- **OFFICER_TOKENS:** Each Officer route requires x-officer-role + x-officer-token. Tokens are issued/revoked by the President (server-side) and never exposed to browsers.
- **Logging & audits:** Every Officer/President action appends to admin_log.json (immutable), sampled weekly by Chief Auditor; variance reports are public.
- **Revocation & appeal:** Any Officer can be suspended by President (emergency) or via Council-gated action per governance classes; appeals logged with outcomes.
- **Code of Conduct:** Non-political mandate; privacy-by-design; conflict-of-interest disclosures (see **R12**).

11) Security & Validator Operations (PoCom-aware)

Consensus & finality. Hybrid PoA + DPoS overlay on Substrate primitives:

- **Block production:** permissioned Authority Set (PoA).
- **Finality: GRANDPA;** finalized blocks are irreversible.
- **Selection overlay: veDBAS** holders influence who sits in (or is removed from) the authority set via governance.

Authority governance.

- Add/remove validators on-chain (tri-cameral flow); session keys rotate without touching cold stash.

- Slashing (when enabled): **equivocation** → **heavy slash + removal**; **downtime** → **penalties** per policy.

Sentry architecture.

- Validators: P2P **30333** only; no public RPC.
- Public RPC/WebSocket via separate nodes behind TLS proxy with rate limits; reserved peers keep authorities connected.

Key management.

- Stash/controller keys offline; hot session keys only; consider HSM/remote signer; verify with author Haskey after rotation.

Runtime & economic guards.

- **Commissioner pallet** enforces k , r , never-burn floor, coverage bands, Eco-Mode auto-switch.
- **LC allow-list** + exempt receivers enforced on-chain; convert (LC ↔ DBAS/DBAST) desk-capped and pausable.
- **Global kill-switches** (mint/convert pause) for incident response; all changes logged on-chain.
- **Reserve Registry pallet** (PoR oracle, circuit-breaker signals).
- **PSM guardbands** and **auto-shutdown** on PoR faults.

Ops hardening.

- Close validator RPC; expose only via sentry/RPC nodes; TLS, per-IP rate limits; Prometheus metrics; backups for chain-specs and session keys.

*Operational runbooks and metrics: **TA-02**.*

12) Vesting & Public Lockboxes

Principle: vesting is visible and auditable. The following transparent lockboxes are published for public oversight (balances/locks viewable on-chain; schedules in **TA-05**):

1. Emission Reserve — 5G925JkssbyglJPTsvNVX8rfDSy7jtbudf7eAQHkkC31Lseu
2. Treasury & Liquidity — 5E4c7iDCDym2hgCuA5aA8ySRIymJg8NxZYSDt5KKtK3PDmDx
3. Ecosystem Grants — 5DkXDjd6qhBawccJgTePZCpyumFCJv49PfzKnDANZKUXFikv
4. Founder (Edward) — 5GZLktjW3Jfy3c4hQAEfL7St7aWHyLWPRvehrF8gziRkCwkW
5. Co-founder (Anita) — 5CoJN5RpRn47BpzYSngmhP2fu9ivG8j6ri6SMF7J5qkLwTEW
6. Co-founder (Edward E) — 5FcKRVnkHmvtcncy7Ef9k6ijFokA2Fq9Mxh3cbJX9SWC3DR
7. Board (Rajesh) — 5Gs8YLpU5yNAevTMgmjvH48fq5HB3MMgxiyrtjeMrtxWGyd
8. Board (Olu) — 5Cvwx6hTTa8SgkPWGQPNPfofknPU6w1Sk1re89QvnzgE9X7E
9. Board (Christian) — 5GLTCF81dqZG1mFtPUHUm2FveT6aTEpDzk3Gu8zviRV3Eyqh
10. Board (Salami) — 5CPtPPoujUSKcozjxd1C5rGjo8v8McVoH9kHXP3o5hLcTHy
11. Team & Ambassadors — 5Hma9VCsw6BvUSp88zrauAJJFDd9s7jKJcpnKL9P4GJpZSbN
12. Strategic Partners & City — 5FqCEbiaq19PES9W4GFLDhGtYbxMJt49xHLY4deKWFSLLHjv
13. Private/ICO/OTC — 5CvsKLjirFwvy3YnDudWJEpWU2mTf2Lu6uv8Km3GBSb3vXus

*Exact cliffs, linear curves, and unlock conditions are detailed in **TA-05** and enforced by the vesting pallet.*

13) Asset Suite (public view)

- **DBAS** — native coin (gas/governance/reserve), 18 dp. (See **R24**.)
- **LC** — on-chain spend-only asset (ID 1; 6 dp); mint on loop close. (See **R25**.)
- **DBAST** — DBAST-USD/EUR (EMT-grade, 1:1) and DBAST-X (over-collateralized, non-EMT). (See **R26–R27**.)
- **ALTO** — EVM token for community programs; DBAS-paid gas. (See **R28**.)
- **SBT/NFT registries** — Republic Passport (SBT), Ambassador Badges (SBT), Device Certificates (SBT), Genesis 721, Event 1155, Metaverse Land 721, HQ Suites/Venues, Special Mints. (Classes and IDs listed in **TA-05**.) (See **R29**.)

Trading & Listing Notes (summary) — *See §19 for policy details.*

- **DBAS:** DEX-first (DBAS/DBAST, DBAS/ALTO); selective CEX later per §18 gates.
- **LC:** **Never listed.** Spend-only; no DEX/CEX pairs.
- **DBAST-USD/EUR:** Payments/settlement rails; liquidity via **Desk/PSM** and regulated partners; any venue support must follow EMI/issuer rules.
- **DBAST-X:** May list on **DEX** with guardbands; not an EMT.
- **ALTO:** DEX at TGE; potential CEX **only** via governance + compliance review.

14) Post-Floor Dynamics (Eco-Mode)

When cumulative burns reach the DBAS **never-burn floor**, LC minting stops. Commissions then flow from:

1. **MP budget** accrued via Emission Reserve;
2. **Desk/PSM** revenues from LC↔DBAS/DBAST conversions.

Outcomes:

- **LC** gains scarcity clarity; utility remains high (merchant spend-only).
- **DBAS** hardens as reserve/gas/governance with a known permanent base and a real burn history.
- **Commissions** continue without LC inflation, aligning incentives long-term.

*For formal math and invariants, see the **PoCom & DBAS Yellowpaper** (PoCom Foundation, non-profit).*

15) The Super-App (Experience)

Spesbas Nexus (mobile + web) is the citizen, merchant, and officer interface to the Republic.

Money & Commerce

- Wallet (DBAS + global LC; LC-first spend; QR).
- Merchant POS (split-pay, receipts, offline queue, printers; Tap-to-Pay/NFC where supported).
- Marketplaces (Hub, Emporium, DApps Depot, NFT Gallery, Metaplaza).
- Mining (Free/Capital/WorkForgeX/DAppsForgeX; convert; referral).
- Desk/PSM access (quotes, limits, disclosures; LC rules enforced—no LC trading).

Governance & Institutions

- DigiGov (Stake House • Citizens House • Council): proposals, votes (MACI-style), timelocks, results.
- Officers Console (KYC v2 queues, decisions, logs, flags).
- Ambassador (ranks, bounties, city scorecards).
- Auditor View (immutable logs, variance samplers, PoR snapshots).

Network & Tools

- **DEX** (DBAS ↔ DBAST ↔ ALTO; guarded bands; LC excluded by policy).
- **Explorer** (blocks, events, pallets, assets, LoopClose traces, admin logs).
- dApp Browser (EVM + Substrate providers; allow-listed domains by default).
- Official Website (newsroom, docs, releases, brand kit, status).

Trust & Transparency

- **Proof-of-Reserves Dashboard** (DBAST-USD/EUR reserves, daily attestations, PoR oracle feed state).
- **Status & Incidents** (kill-switch banners; maintenance windows; SLAs).
- **City Scoreboards** (LoopScore™, merchants, receipts, KYC SLAs).

Design language: Midnight Navy #0A0D1F + Sovereign Gold #FFD700, glass cards, depth blur, rounded-2xl, haptics, and a signature “portal” animation into HQ. 60 fps interactions, skeleton loading, secure-enclave signing.

1. **Passports & Devices (SBTs)** — In-app issuance/refresh of Republic Passport (SBT) and Device Certificate (SBT); show trust badges in Wallet & POS.
2. **On/Off-Ramp Hub** — Bank transfer/USDC corridors with clear KYC states, fees, and daily limits.
3. **Account Abstraction & Recovery** — Passkeys (WebAuthn), social guardians (multi-party recovery), session keys for POS.
4. **Notifications & Inbox** — Proposals passed, officer decisions, PoR updates, payout receipts; all cryptographically tied to events.
5. **Accessibility & Locales** — Large-text mode, RTL support, and per-city localization. (Let Ambassadors ship locale packs.)

6. **Developer Mode** — Toggle testnet/mainnet, faucet (where allowed), RPC selector, and Event Inspector for LoopClose traces.
7. **Compliance Center** — Personal data export/delete requests, travel-rule disclosures, and residency toggles—privacy by default. (see §22 and per-marketplace policies.)

Guardrails reminder: LC remains merchant-only (no P2P), and DEX excludes LC. Keep those rules enforced both in UI and runtime.

IA (navigation) that feels “nation-grade”

- Bottom Tabs: **Wallet • Market • Govern • Work (Mining) • Tools**
- Top Right: **Portal → HQ** (metaverse ceremony hall)
- Tools Drawer: **Officers Console, DEX, Explorer, dApp Browser, Official Website, Status/PoR.**

16) Roadmap (Public Milestones) — Updated 6 Oct 2025

Gate model. Each phase or release *activates only when exit criteria are met* (security, PoR, uptime, governance approvals). See §19 Exchange & Liquidity Policy and §5.3 DBAST for rails/listings guardrails; operational detail in TA-13 (Listings Playbook).

16.0 TL;DR timeline (anchors)

- **6–18 Oct 2025** — Finalize specs & public docs (Whitepaper v1.0, Yellowpaper v1.x, PIP-0001...0004 freeze), Mainnet hardening.
- **21 Oct 2025** — **Mainnet 771024 genesis** (Phase A start).
- **28 Oct 2025** — **Nexus Super-App beta** (Wallet, POS, Mining, Marketplaces), **Explorer** live.
- **11 Nov 2025** — **LC (spend-only)** enabled on mainnet (restricted transfers); **Officers Console v0.**
- **25 Nov 2025** — **Merchant POS pilots** (3 anchor cities), **DigiGov v0** opens proposals.
- **12 Dec 2025** — **DEX** (DBAS/DBAST/ALTO) with guardbands (**LC excluded by policy**, see §19).
- **16 Dec 2025** — **ALTO TGE** (+ Litepaper/Tech Spec), **5% policy sinks** live.
- **16 Jan 2026** — **Phase B:** Loop Auto-Close v1 (circuit breakers), **WorkForgeX/DAppsForgeX** payouts.
- **28 Feb 2026** — **PSM live** (USDC rails); **DBAST PoR** dashboard preview.
- **10 Apr 2026** — **DBAST-USD/EUR (EMT-grade) launch** (*subject to EMI partner readiness*).
- **May–Jun 2026** — **Phase C:** Autonomous Loops under guardbands; **Eco-Mode simulations** on mainnet.

Note: **SpesLink Core** is a future, adjacent network (see §20). It is **not** included in this roadmap.

16.1 Q4-2025 — Launch & Dardening (Detailed)

Objectives. Mainnet A-phase live, first commerce receipts, officer/treasury guardrails, and DEX-first liquidity (no LC pairs).

Workstreams & dates

- **A. Protocol & Runtime**
 - 6–18 Oct: PIP-0001...0004 freeze; final audit fixes; chain-spec regen; launch-checklist signed.
 - 21 Oct: Genesis (PoA authorities), GRANDPA finality; observability + incident runbooks online.
- **B. Nexus Super-App**
 - 28 Oct: Wallet/POS/Mining/Marketplaces (beta), Explorer live; LC UI rules (no P2P) enforced.
- **C. Civic Money**
 - 11 Nov: LC spend-only enabled (restricted transfers); Officers Console v0.
 - 25 Nov: 3 anchor cities live (POS pilot), DigiGov v0 proposals.
- **D. Liquidity & Listings**
 - 12 Dec: DEX pools **DBAS/DBAST**, **DBAS/ALTO**, **ALTO/DBAST** with guardbands. (*§19*, *TA-13*)
 - 16 Dec: **ALTO TGE**, 5% sinks + exemptions by policy; publish R28 Litepaper.

Exit criteria (Q4)

- Uptime $\geq 99.5\%$; zero P1 chain incidents; LC policy enforced end-to-end.
- $\geq 50k$ verified citizens, **3k merchants**, $\geq 10k$ receipts; 3 anchor city scorecards live.
- DEX protections (TWAP, max trade size) validated; no LC pairs exposed.
- **DEX-first rule**: Only **DBAS/DBAST**, **DBAS/ALTO**, **ALTO/DBAST** pools are enabled; **LC is excluded** from trading pairs by design (see *§19*).

16.2 2026 — Product completeness, rails, and scale

Q1 2026 (Jan–Mar)

- **16 Jan**: Auto-Close v1 (Phase B) with circuit breakers; WorkForgeX/DAppsForgeX payouts.
- **28 Feb**: PSM live (USDC rails); DBAST PoR dashboard preview.
- **Scale**: 25 cities, **150k citizens**, **10k merchants**, weekly receipts $\geq 100k$.
- Expand **Auditor-View** & **DPPC City** coverage to **5 regions** (≈ 1 per 5 cities) for weekly variance and incident response.”

Q2 2026 (Apr–Jun)

- **10 Apr**: DBAST-USD/EUR EMT-grade launch (par redemption, PoR live). (*§5.3*, *TA-11*)
- **Phase C** prep → **Autonomous Loops** under guardbands; Eco-Mode simulations on mainnet.
- **Scale**: 60 cities, **500k citizens**, **25k merchants**; 30-day merchant activity $\geq 70\%$.

Q3 2026 (Jul–Sep)

- Roll out **city-per-city playbook** (R9) to 120 cities; expand Officers cohort.
- **Scale**: **1.2M citizens**, **60k merchants**; receipts/wk $\geq 500k$.

Q4 2026 (Oct–Dec)

- Governance v1.1 (delegations, veto windows); Treasury dashboards (SBV bands, PSM budgets).
- **Scale: 2.0M citizens, 90k merchants; national LoopScore™ ≥ 78.**

16.3 2027 — Regional networks & institutional trust

- **Coverage: 200–300 cities**, 3–5 priority regions.
- **Civic Money:** DBAST issuer redundancy (2nd custodian), quarterly audits public.
- **Scale targets: 5M citizens, 150k merchants; PoR cadence stable; uptime ≥ 99.7%.**

16.4 2028 — Multi-region standardization

- **Coverage: 400–600 cities** (1 ambassador per city).
- **Developer ecosystems:** DAppsForgeX grants; Marketplace telemetry scoring (R21).
- **Scale targets: 12M citizens, 240k merchants; receipts/wk ≥ 4M.**

16.5 2029–2030 — National flywheels

- **Coverage: 800–1,200 cities**, enterprise merchant cohorts.
- **Policy:** Wider **Autonomous Loops** with strict guardbands; Eco-Mode readiness drills.
- **Scale targets: 25M–40M citizens, 400k–600k merchants; 90-day merchant activity ≥ 75%.**

16.6 2031–2035 — The 100M-Citizen Decade (north star)

Goal: 100,000,000 verified citizens by 2035 (10 years), with 1 city → 1 ambassador.

Annual targets & city coverage (illustrative)

- **2031:** 50M citizens • 2,500 cities • ~350k active merchants
- **2032:** 65M citizens • 3,300 cities • ~450k active merchants
- **2033:** 80M citizens • 4,200 cities • ~550k active merchants
- **2034:** 90M citizens • 4,600 cities • ~600k active merchants
- **2035: 100M citizens • 5,000+ cities • 650k–800k active merchants**

What must happen to reach 100M

1. **Ambassador network:** recruit, train, and retain **5,000+ ambassadors** (1 per city) with scorecard-tied incentives.
2. **Merchant engine:** repeatable **POS kit + onboarding** yielding **≥10 merchants** in first 7 days per new city (R19/R20).
3. **Trusted rails:** **DBAST PoR** daily + audits; EMI partnerships in each growth region.
4. **Seamless UX:** Nexus Super-App performance (60fps), passkeys/recovery, locale packs, low-friction KYC v2.
5. **Safety:** incident runbooks; Auditor variance weekly; LC predicate enforced (no P2P).
6. **Partnerships:** telco/payments integrations; city-level MOUs (non-political).
7. **Data-driven growth:** LoopScore™, merchant retention, referral trees, MP issuance caps—published weekly.

16.7 Phase Gates & Safety Checks (must-pass)

- **Security & Ops:** 2 audits passed; bug bounty live; uptime $\geq 99.5\%$; no unresolved P1s.
- **DBAST (EMT):** PoR daily, monthly attestations; circuit breakers wired; redemption SLA.
- **Liquidity:** DEX protections (TWAP/oracle, max size); **no LC pairs** (see §18, TA-13).
- **Governance:** tri-cameral approvals for monetary/constitutional changes; timelocks observed.
- **Compliance:** KYC v2 SLAs; sanctions screening; data minimization (CDPO policy).
- Staff **Treasury Desk Ops**, **PoR Registrar**, and **PSM Controller** to operate Desk/PSM guardbands and daily PoR feeds.”

16.8 KPIs We Publish (weekly/monthly)

- **Growth:** verified citizens; active merchants (30/90-day); receipts/wk; LoopScore™.
- **Reserves & rails:** DBAST circulating, cash/T-bills by ISIN, reserve ratio; PSM bands uptime.
- **Reliability:** uptime; incident summary; convert/FX MTTR; desk spreads vs policy.
- **Governance:** proposals, turnout (MACI), approvals, timelock windows.
- **Integrity:** Auditor variance notes; LC predicate violations (target = 0).

16.9 Non-Goals & guardrails (to avoid drift)

- **No LC trading** anywhere (policy & code).
- **DEX-first** liquidity for DBAS/ALTO/DBAST-X; **DBAST-USD/EUR** used as payments rail (issuer policy).
- **No Phase upgrades** without gates met; **no Eco-Mode switch** without floor conditions & Council sign-off.
- **SpesLink Core:** Preview only (**\$20**), **not** a dependency for this roadmap.

17) Recognition & Positioning

World-first: Spesbas is the first production blockchain to implement PoCom with a live DBAS auto-recycling engine, tri-cameral anti-capture governance, and an on-chain Eco-Mode that sustains commissions after mint caps—without inflation.

Lineage in one sentence: After Bitcoin (digital money), Ethereum (smart contracts), Polkadot (inter-chain), and Solana (throughput), Spesbas introduces **PoCom**—commerce-anchored blockspace with policy-aware mint/burn and human-legitimacy governance.

Standards first. PoCom/DBAS are open standards stewarded by the **PoCom Foundation (non-profit)**; Spesbas is their first production proof.

18) Disclosures & Legal (Public)

(context line retained) **PoCom links real receipts to mint/burn under tri-cameral guardrails; DBAST rails are EMT-grade (1:1, fully reserved, Proof-of-Reserves).**

This document describes policy and architecture. Specific parameters (e.g., exact k , r , floors, risk thresholds) and some internal controls remain confidential until audited releases. Nothing herein is financial advice. Participation may be subject to local laws and eligibility criteria.

DBAST-USD/EUR are 1:1, redeemable, fully reserved e-money tokens issued with/by an EU EMI partner; availability subject to KYC/AML and local restrictions. **DBAST-X** is a separate, over-collateralized crypto instrument and not an EMT.

Foundation Independence. The PoCom Foundation (non-profit) publishes the PoCom/DBAS Yellowpaper and PIPs as open standards. The Foundation does not operate the Spesbas network. Spesbas Republic is the first production adopter of the PoCom/DBAS standards and remains operationally and legally independent.

Licensing. Yellowpaper and PIPs: **CC BY 4.0**. Reference implementations: **Apache-2.0**. “PoCom” and “DBAS” are Foundation trademarks used under published brand guidelines.

Listings, Trading & Market-Making Disclosures

- **No listing promises.** References to potential CEX/DEX listings are forward-looking and subject to **governance approval**, audits, compliance, and market conditions.
- **LC non-transferability.** LC is **spend-only** and will **not** be listed or tradable on any venue.
- **DBAST policy.** DBAST-USD/EUR are **1:1 redeemable e-money tokens** issued with/by an EU EMI partner; venue support (if any) is subject to issuer policy and applicable e-money laws; **not marketed as speculative instruments**. **DBAST-X** is a separate crypto-backed asset, not an EMT, and carries different risks.
- **Trading risks.** **DBAS** and **ALTO** may be volatile; users should understand liquidity, slippage, and smart-contract risks.
- **Market-making.** Any treasury/partner market-making follows risk caps and surveillance standards; **no citizen funds** are used; activities may be paused by circuit breakers.
- **Jurisdictional limits.** Access to venues and features may be restricted by **KYC/AML** and local regulations.

19) Exchange & Liquidity Policy

What lists and what never lists

- **LC (LoopCash): Never listed.** LC is spend-only by design (merchant allow-list). No CEX/DEX pairs—ever. Liquidity comes from **earning and spending**, not trading.
- **DBAST (stable rail):** Primarily a payments/settlement rail.

- **DBAST-USD/EUR (EMT-grade, 1:1, fully reserved)**: liquidity through **Desk/PSM** and regulated partners; not promoted as a speculative trading asset. Any venue support must meet EMI/issuer policy and jurisdictional rules.
 - **DBAST-X (crypto-backed)**: can appear on **DEX** with guardbands; not an EMT; clearly labeled as a different risk class.
- **DBAS (native reserve/gas)**: Candidate for **DEX first; selective CEX later**. Start with on-chain DEX liquidity (**DBAS/DBAST, DBAS/ALTO**) and consider CEX listings only after maturity, audits, and legal opinions.
- **ALTO (community token)**: **DEX at TGE**; CEX subject to governance. ALTO launches with DEX pools; any CEX listing requires governance approval, liquidity programs, and compliance review.

Why we don't "need" listings on day one

Spesbas is a usage-anchored economy. Demand is created by verified commerce loops (PoCom), not by speculative order books. Early liquidity priorities are:

1. Desk/PSM for tight **LC↔DBAST/DBAS** rails,
2. Merchant & citizen flows in cities,
3. DEX pools with guardrails (**no LC pairs**).

Our staged approach

1. **Phase A–B (2025–H1 2026) — DEX-first liquidity**:
 - Pairs: **DBAS/DBAST, DBAS/ALTO, ALTO/DBAST** (LC excluded).
 - Protections: guardbands, max trade sizes, oracle/TWAP checks, circuit breakers.
2. **Phase C + 90 days of stability — Evaluate Tier-2 regulated CEX** for DBAS (and optionally ALTO):
 - Preconditions: two independent audits passed, bug-bounty live, 90-day uptime/incident report, legal opinions (EU MiCA, local regimes), treasury risk budget + market-making policy, and PoR track record for DBAST.
3. **Tier-1 CEX (optional, later)** — Only if it advances real adoption, offers surveillance/AML guarantees, and passes governance.

Venue selection criteria (non-negotiable)

- Jurisdictional compliance (MiCA/EMT constraints for DBAST-USD/EUR).
- Contract & infrastructure audits on file; live monitoring.
- Market-abuse monitoring (surveillance), transparent fee/rebate schedules.
- Custody segregation & solvency proofs (for CEX).
- Listing does **not** force LC policy changes (LC remains non-transferable P2P).

What users can expect

- **DEX access** for DBAS/ALTO/DBAST-X with on-chain protections.
- **Fiat on/off-ramps** via Desk/PSM and regulated partners for DBAST-USD/EUR.
- **No LC trading**—earn it by closing loops; spend it at merchants.

FAQ for the President / Press

- **Press: “Will you list on Binance (or other CEX)?”**

President: “Maybe—when audits, compliance, and phase-maturity criteria are met and governance approves. No promises or dates today.”

- **Press: “Can I trade LC?”**

President: “No. LC is spend-only. That’s how we protect the commerce loop and citizen value.”

- **Press: “Is DBAST a trading token?”**

President: “**DBAST-USD/EUR** (EMT-grade) are payments/settlement rails with par redemption, PoR, and issuer policy; any venue support must meet e-money rules. **DBAST-X** (crypto-backed) can have DEX pairs with clear risk disclosures.”

20) SpesLink Core — Adjacent High-Throughput Network (Preview)

Scope Note (preview): SpesLink Core is a future, adjacent network. It is **not included in the current Roadmap**; this section is informational/vision only.

Introduction — A Future-Ready Technology Infrastructure

The **Second Big Spark** after **Spesbas Five Mining Methods** with its five marketplace is “**SpesLink Core**” – **The Next-Generation Quantum-Ready Blockchain That Powers The Future**. With the success of Spesbas Blockchain, we will leverage its momentum to launch **SpesLink Core**—the fastest, most scalable blockchain ever created—which will power the entire SpesLink Ecosystem of disruptive Web3 solutions.

SpesLink Core isn’t just another blockchain—it’s a Quantum-Ready, AI-Integrated, Ultra-Scalable chain that will power AI, Robotics, Smart Cities, IoT, Metaverse, and Decentralized Energy Systems.

Why SpesLink Core is the Backbone of the M2M Economy

- Traditional blockchains like Bitcoin and Ethereum are too slow for M2M interactions.
- **SpesLink Core will process 1,000,000+ TPS**, enabling real-time automation.
- **AI-enhanced smart contracts** allow machines to negotiate, execute, and verify transactions instantly.

SpesLink Core Powers 8 Revolutionary Products

The Future of Spesbas Inc.: The Multi-Trillion-Dollar Disruptor

Beyond SpesLink Core, the next wave of explosive growth will come from its products:

1) Decentralized Social Media (SpesLink DSM)

A blockchain-based social platform where users own their data, earn from content, and experience censorship-free interaction.

Industry Value: \$1.3T

Why It's a Hit Product:

- Eliminates Big Tech censorship—users own their content and data.
- Revenue-sharing model ensures that creators earn **100%** of ad revenue, unlike Facebook and YouTube.
- Gives users full control over their digital presence, setting a new standard for social media freedom.

2) AI-Powered Advertising (SpesLink AdBridge)

An AI-driven, blockchain-secured ad network that eliminates fraud and gives businesses direct access to real engagement.

Industry Value: \$1T

Why It's a Hit Product:

- Uses blockchain to eliminate ad fraud and fake engagement, creating verified advertising.
- Advertisers pay directly for real human engagement—no middlemen like Google and Meta taking a cut.
- Disrupts the \$1T digital ad industry by delivering better results at lower costs.

3) Peer-to-Peer Energy Trading (SpesLink Energy) — *The Energy Freedom Platform!*

Allows users to buy and sell electricity peer-to-peer without middlemen, reducing costs and empowering clean energy producers.

Industry Value: \$2T

Why It's a Hit Product:

- Users can buy and sell electricity directly, cutting out power companies.
- Blockchain ensures fair pricing, reducing government and corporate control over energy distribution.
- Enables decentralized microgrids, making clean energy accessible worldwide—even in rural areas without government power grids.

4) Smart Energy Grid Management (SpesLink Grid) — *The Smart Energy Revolution!*

A decentralized system for managing electricity distribution, optimizing energy flow, and reducing reliance on traditional power grids.

Industry Value: \$170B

Why It's a Hit Product:

- Uses AI and blockchain to manage energy flow dynamically, reducing waste and optimizing supply.
- Balances energy demand and supply in real time, ensuring efficient usage.

- Creates a global decentralized energy network so users can store, trade, and consume energy efficiently.

5) Supply Chain Transparency (SpesLink Tracker) — *The Transparent Supply Chain Solution!*

Tracks products from manufacturer to consumer, eliminating fraud, counterfeits, and inefficiencies. Ensures authenticity, real-time tracking, and secure transactions on the blockchain.

Industry Value: \$42B

Why It's a Hit Product:

- Provides 100% transparent, tamper-proof supply-chain tracking.
- Helps businesses eliminate fraud, counterfeit goods, and inefficiencies.
- Essential for pharmaceuticals, food safety, and luxury goods.

6) Decentralized Cloud Storage (SpesLink Vault) — *The End of Data Theft!*

A blockchain-secured cloud storage system that ensures 100% data ownership, privacy, and tamper-proof security.

Industry Value: \$11B

Why It's a Hit Product:

- Unlike Google Drive and AWS, it ensures user-owned, encrypted data storage.
- Protects data from hacks, leaks, and government surveillance.
- Becomes the foundation for secure, censorship-free internet infrastructure.

7) Digital Identity Management (SpesLink ID) — *The Ultimate Digital Identity Revolution!*

Provides secure, self-sovereign digital identity for individuals and businesses. Eliminates identity theft, streamlines online verification, and enhances global access to financial & social services.

Industry Value: \$70B

Why It's a Hit Product:

- Self-sovereign identity that users control—no dependence on governments or corporations.
- Prevents identity theft and fraud by verifying users on a decentralized ledger.
- Essential for banking, government services, and online security.

8) Blockchain-Powered Healthcare (SpesLink Health) — *The Future of Medical Data & AI Diagnosis!*

Secures patient records on the blockchain for privacy and accessibility. Enables AI-driven diagnosis, decentralized telemedicine, and fraud-proof medical billing.

Industry Value: \$5.6B

Why It's a Hit Product:

- Uses blockchain to secure patient records and medical transactions.
- Telemedicine & AI-powered diagnostics improve global healthcare access.

- Removes middlemen in healthcare billing, reducing costs for patients.

SpesLink Core — The Backbone of Everything

All these innovations will run on **SpesLink Core**—the next-generation, quantum-ready blockchain that delivers **1M+ TPS**, **zero gas fees**, and **unlimited scalability**.

Conclusion — The Future is Machine-Led, and Spesbas is Leading It

Spesbas will pioneer a self-sustaining digital economy, where machines trade, negotiate, and transact without human involvement. **SpesLink Core** will make this faster, cheaper, and more efficient than anything before.

The Machine Economy is coming—Spesbas is making it happen!

21) Officers & Team (Public Roster — v1 Placeholder)

Spesbas Republic operates as a **nation-in-software** with a formal cabinet and officer corps. **Appointments are currently in progress.**

The **full, photo-verified roster**—including names, roles, city assignments, public addresses (SBT badges), and term status—**will be released on our official website** and also **included in Master Whitepaper v2** once the round of appointments is complete.

Structure overview (high level)

- **Head of State:** President
- **Executive:** Vice President (cross-ministry execution & risk), Prime Minister (delivery)
- **Chiefs (report to President):** Chief of Staff; **CTO** (platform/infra/security); **CTR** (treasury/reserves/FX/SBV); **CKCO** (KYC & compliance); **Chief Ambassador** (field growth); **Chief Auditor** (independent oversight); **CDPO** (privacy/DPIA); **DPPC Commandant** (defense-only)
- **Ministers (12 portfolios):** Peace & Conflict; Wealth & Economy; Security & Defense; Energy & Infra; Health & Human Flourishing; AI & Conscious Tech; Culture/Language/Identity; Space/Interplanetary; Spiritual Affairs; Education & Intelligence; Citizenship & Global Engagement; Protocol/Inter-Nation
- **Field leadership:** **Ambassadors** (one per city), **Governors** (districts), **SMA Chair** (merchants), **SUHA Chair** (users & holders)
- **Officer Corps:** KYC Officers, Treasury/Desk Officers, Auditor team members, and other appointed roles

Verification & safeguards

- All officers operate with signed **OFFICER_TOKEN** credentials (server-side, never public).
- Every hard action (e.g., FX/SBV/convert toggles, token issuance/revocation) is **immutably logged** (auditor-visible).

- Anti-impersonation: the website roster will include **role SBTs** and **public keys** for verification.

Where to learn more (role details & operations)

- **Cabinet OKRs**
- **City Playbook**
- **Live System Map**
- **Foundations & Mandate:** *The Spesbas Republic Declaration of Independence & Founding Charter*

Publishing plan: The initial public roster will appear on the **official website** as soon as appointments conclude, and the same roster will be bundled into **Master Whitepaper v2**

22) Republic Policy & Conduct (applies to all participants)

Purpose. Protect citizens, keep money honest, and make prosperity measurable. This policy governs every role in the Spesbas Republic and is enforced **in code** (runtime guards), **in process** (officers & councils), and **in public** (immutable logs and disclosures).

Scope. Citizens, Merchants, Ambassadors, Officers, Developers, Validators, and Integrators using the Spesbas network, apps, or marketplaces.

22.1 First Principles

- **Non-political mandate.** The Republic serves economic dignity and lawful commerce; no partisan capture.
- **Rule of code + rule of law.** Policy is software with timelocks and auditable logs; jurisdictional laws still apply.
- **Least privilege.** Roles and keys carry only the powers they require; everything else is denied by default.
- **Privacy by design.** PII minimized; proofs on-chain, sensitive data off-chain with retention schedules.
- **Proportionality.** Sanctions fit the violation; appeals are available and logged.

22.2 Universal Duties

- Be truthful in identity (KYC) and commerce (receipts).
- Use LC only where allowed (merchant allow-list; no P2P).
- Respect SBTs and role limits (no impersonation, no key sharing).
- Observe jurisdictional restrictions (sanctions, age, residency).
- Report vulnerabilities and abuse; do not exploit.

22.3 Prohibited Conduct (examples, not exhaustive)

- **Fraud & wash trade:** fake receipts, circular flows, self-dealing loops.
- **Sybil abuse:** duplicate identities, device spoofing, referral gaming.
- **KYC evasion:** forged docs, borrowed identities, residency misreporting.

- **Market manipulation:** spoofing/layering; abuse of DEX bands; Oracle games.
- **Harassment or hate;** illegal content; doxxing; officer intimidation.
- **Tampering:** wallet/point-of-sale bypass; policy-flag suppression; log deletion attempts.

22.4 Financial Conduct Rules (selected)

- **LC (LoopCash):** spend-only to certified merchants or exempt sinks; **never tradable.** Wallet + runtime enforce.
- **DBAS:** reserve/gas; subject to DEX guardbands and anti-manipulation monitors.
- **DBAST-USD/EUR:** 1:1 redeemable e-money tokens (EMT-grade) used for payments/settlement via Desk/PSM; venue support only per issuer policy.
- **DBAST-X:** crypto-backed rail; DEX pairs allowed with guardbands and risk disclosures; not an EMT.
- **ALTO:** community token; transfer-tax and exemptions per policy; listings require governance approval.

22.5 Marketplace Conduct (Five Marketplaces)

- **Hub (POS):** device attestation required; printer/receipt hash anchoring; refund ladder enforced.
- **Emporium (online):** escrow & dispute ladder; split-pay; merchant settlement via Desk/PSM.
- **DApps Depot:** developer allow-lists; package signing; telemetry fraud filters.
- **NFT Gallery:** SRC-721/1155 + SBT registries; royalties and revocations enforceable.
- **Metaplaza:** spatial checkout; ticketing; venue settlement; avatar-asset rules.

(See R19–R23 for detailed specs.)

22.6 Officers & Conflict of Interest

- Officers act under **OFFICER_TOKEN** with immutable logging.
- COI disclosures are mandatory; recusal when conflicts arise.
- Misuse of hard powers (e.g., kill-switches) triggers automatic Council review.

(See R12 Officers Handbook; TA-08 Governance.)

22.7 Enforcement Ladder (due-process, auditable)

1. **Notice & education** (warning banner; policy link).
2. **Soft controls** (reduced limits; MP freezes; temporary LC spend gates).
3. **Strikes & forfeiture** (MP/bonus claw-back; ALTO grant holds).
4. **Role/SBT actions** (temporary suspension; SBT strike; merchant delisting).
5. **Network actions** (account quarantine; DEX/Desk restrictions).
6. **Council/President action** (emergency kill-switch; regional/global pause).
7. **Referral to authorities** where required by law.

Appeals: DigiGov proposal or Officer appeal form; decisions and rationales are posted to the public log.

22.8 Technical Enforcement (runtime & ops)

- **Policy Registry pallet.** Canonical list of policies (POL-001...); versions, timelocks, audit trail.
- **Policy Gates.** LC transfer predicate; DEX guardbands; PSM auto-shut on PoR <100%; device attest checks.
- **Immutable Admin Log.** All Officer/President actions append to a hash-chained log.
- **Kill-switches.** Circuit breakers for FX/convert/PSM with citizen-facing banners.
- **Monitoring.** Auditor surveillance for wash-trade, oracle lag, unusual flows.

22.9 Data Protection & Citizen Rights

- DPIA maintained by CDPO; data maps and retention schedules published.
- Right to access/export/delete personal data (subject to legal holds).
- Sensitive comms channel (“Board”) hashed and policy-audited.

22.10 Jurisdictional & Age Gates

- Residency toggles; sanctioned-list blocks; restricted jurisdictions honored.
- Age-based controls and guardian flows available where required.

Cross-References. R5 Legal Pack; R25 LC Policy; R26–R27 DBAST Policies; R19–R23 Marketplaces; TA-08 Governance; TA-11 PoR/DBAST; TA-05 Assets; TA-03..09 Mining. **TA-12: Civic Policy Engine & Enforcement.**

23) Glossary (select)

DBAS — native reserve/gas; fixed supply; burn-only.

LC — LoopCash; on-chain spend-only asset minted on loop close.

PoCom — Proof-of-Commerce; protocol linking verified trade to mint/burn economics.

Eco-Mode — post-floor state where commissions are funded by MP budgets + Desk/PSM, with LC mint paused.

M1..M4 — POS sale → restock → production → raw inputs lineage.

PSM/Desk — Peg Stability Module and desk conversions for LC↔DBAST/DBAS.

SBT — Soulbound Token (non-transferable).

veDBAS — time-boosted DBAS voting escrow for governance.

SMA — **Spesbas Merchants Association:** SBT-gated body of verified merchants; elects an SMA Chair per city; participates in civic commission splits and policy feedback.

SUHA — **Spesbas Users & Holders Association:** SBT-gated body of citizens/users & holders; elects a SUHA Chair per city; participates in civic commission splits and grievance/benefits programs.

24) Credits

Edward Osas Idele — Inventor of PoCom & DBAS; Founder of the PoCom Foundation (non-profit); President, Spesbas Republic; Founder, Spesbas Inc.

PoCom Foundation TAC — contributors to the Yellowpaper & PIPs.

Implementation: Spesbas Republic (first production adopter of PoCom/DBAS).

For implementation, metrics, event schemas, chainspec excerpts, and developer quickstarts, see **Tech Appendix TA-02..TA-09**. For formal math and invariants, see the **PoCom & DBAS Yellowpaper**.

25) References

- R1.** Spesbas Republic — Master Whitepaper (Public Edition –v1.0).
- R2.** PoCom & DBAS Yellowpaper (v1.0). PoCom Foundation (non-profit). Lead author: Edward Osas Idele; with the PoCom Foundation Technical Advisory Committee (TAC). License: CC BY 4.0 (spec) / Apache-2.0 (reference code).
- R3.** PIP-0001..0008: PoCom/DBAS Specification Series. PoCom Foundation (non-profit). (PoCom Core; DBAS Engine; LC Policy; PSM/Desk; Proofs of Commerce; Governance Classes; MP Ledger; Fee Abstraction.)
- R4.** Spesbas Republic Declaration of Independence & Founding Charter.
- R5.** Legal & Disclosures Pack (jurisdictions, KYC/AML, risk).
- R6.** Chainspec & IDs (771023/771024, assets, SBT/NFT classes).
- R7.** Developer/API Pack (endpoints, SDKs, Postman).
- R8.** DBAST Proof-of-Backing & Redemption Policy (EMT-grade; PoR cadence).
- R9.** System Map (Live Ops)
- R10.** Governance & Cabinet OKRs
- R11.** City Playbook
- R12.** Auditor Methodology (variance & PoR oracle hashing).
- R13.** SEE-1 Free Mining Spec (v1.0). Anti-abuse windows, device attestations, cooldowns, epoch budgets, events & invariants.
- R14.** SEE-2 Capital Mining Spec (v1.0). Staking/liquidity/emissions → MP accrual curves, inventory caps, slashing/penalties, oracle inputs.
- R15.** SEE-3 WorkForgeX Spec (v1.0). Categories, proof schemas, reviewer attestations, dispute process, Sybil controls, MP scoring.
- R16.** SEE-4 DAppsForgeX Spec (v1.0). Usage/retention/security telemetry, fraud filters, developer allow-lists, privacy notes, MP formulas.
- R17.** SEE-5 LoopCash Participation Spec (v1.0). M1..M4 bonuses, anti-wash trade checks, time windows, merchant caps, lineage proofs.
- R18.** MP Ledger & Conversion Policy (v1.0). Ledger schema, epoch budgets, conversion function ($DBAS_out = \min(MP \times rate, cap_epoch)$), referral rules, queue fairness, emergency brakes.
- R19.** Spesbas Hub — POS & Receipt Spec (v1.0). Offline queueing, printer matrix, cashier roles, refunds/chargebacks, receipt hash schema, M1 event map, privacy & compliance notes.

R20. Spesbas Emporium — Checkout, Split-Pay & Escrow Spec (v1.0). Cart → pay → escrow → release, dispute ladder, settlement via Desk/PSM, webhook/API docs, risk controls.

R21. Spesbas DApps Depot — Curation & Telemetry Spec (v1.0). Developer allow-lists, package signing, telemetry bundle fields, fraud filters, scoring formulas for DAppsForgeX.

R22. Spesbas NFT Gallery — SRC-721/1155 & SBT Registry Spec (v1.0). Token classes/IDs, royalty standard, SBT issuance/revocation rules, gallery auction flows.

R23. Spesbas Metaplaza — 3D Commerce Protocol (v1.0). Scene contracts, spatial checkout, ticketing, venue settlement, avatar bindings, performance & UX constraints.

R24. DBAS Asset Spec (v1.0). Fixed supply (100,000,000), burn-only mechanics, never-burn floor, gas model, veDBAS voting escrow, event schema (*DBASBurned*, *PolicySinkApplied*).

R25. LC (LoopCash) Policy & Spend-Only Rules (v1.0). Allow-list & exempt receivers, transfer predicate, wallet/UI enforcement, failure modes, audit trail, PoCom linkage (*LCMinted*).

R26. DBAST-USD/EUR — Reserve & Redemption Policy (EMT-grade, v1.0). 1:1 par redemption, reserves (cash + short-dated T-bills), daily PoR, monthly attestations, circuit breakers, PSM

R27. DBAST-X — Over-Collateralized Rail (v1.0). Collateral ratios, oracle design, liquidation engine, fees, risk classes, separation from EMT line, events (*PositionOpened*).

R28. ALTO Blueprint (Community Token, v1.0). Total supply 1,000,000,000,000,000 (1e15); 5% transfer tax (governance-routable sinks), DBAS-paid gas, governance-selected ALTO Council, vesting/renounce logic, anti-whale & listings guidance.

R29. SBT & NFT Registries Spec (v1.0). Passport/Badges/Device-Cert SBT issuance & revocation, SRC-721/1155 class map, metadata standards, bridge notes, revocation proofs, registry admin flows.

R30. PoCom/DBAS Open-Standard Blueprint (PIP Series & Reference Implementations), v1.0,

R31. SpesLink Core — Overview & Performance Targets (v1.0, draft).

R32. SpesLink Banking Rail — Institutional Module Pack (v1.0, draft).

R33. SpesLink Product Briefs (v1.0, draft).

R34. Spesbas Republic Officers Handbook (Public Summary) — roles & responsibilities, KPIs, oath & code, selection & revocation, compensation bands. (*Public link/path when published.*)

R35. ALTO Community Token Litepaper & Technical Spec (v1.0).
Contents (R30): PIP-0001..0008 specs, Substrate/EVM/Cosmos reference code, attester/oracle adapters, assurance plan (audits, bounty), compliance-by-design, adoption roadmap.

26) Tech Appendix (TA-index)

TA-01 Chainspec & Addressing (networks 771023/771024, SS58, asset IDs)

TA-02 Security Runbooks & Ops Metrics (sentry/RPC, keys, alerts, backups, Prometheus)

TA-03 SEE-1 Free Mining Spec (anti-abuse windows, device attestations, cooldowns, epoch budgets)

TA-04 SEE-2 Capital Mining Spec (staking/liquidity/emissions, accrual curves, caps, penalties)

TA-05 Asset Mechanics — **DBAS & LC** (supply, burns, spend-only predicate, UI/runtime guards)

TA-06 SEE-3 WorkForgeX Spec (work categories, proof schemas, reviewer attestations, disputes)

TA-07 SEE-4 DAppsForgeX Spec (usage/retention/security telemetry, fraud filters, allow-lists)

TA-08 Governance & Voting Classes (tri-cameral thresholds, timelocks, vetoes, emergency PoA)

TA-09 MP Ledger & Conversion Policy (epoch budgets, rate, queue fairness, referral bonuses)

TA-10 Marketplaces Suite (Hub POS, Emporium checkout/escrow, DApps Depot, NFT Gallery, Metaplaza)

TA-11 DBAST (EMT-grade) — Reserves, PoR, Redemption, PSM guardbands, incident controls

TA-12 DBAST-X (crypto-backed) — collateral ratios, liquidation engine, oracle design, risk classes

TA-13 Exchange & Liquidity Ops — *Listings Playbook* (criteria, MM rules, comms/legal templates)

TA-14 Super-App Architecture & APIs (Explorer/DEX/Officers Console, dApp browser, status/PoR)

TA-15 PoCom & DBAS Formal Models (event schemas, invariants) — *Yellowpaper bridge*

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