

AFRICA'S RESERVE PROTOCOL — CONSTITUTIONAL WHITEPAPER

Whitepaper

*The reserve protocol of Africa —
doctrine, tokenomics,
architecture.*

v5 · EN
VERSION

June 2026
DATE

manssa.io
CANONICAL

// UPDATE NOTICE · 00

Doctrinal revision – June 2026.

« A protocol is not what it claims. It is what is enshrined. The version is the proof. »

This Whitepaper v5 integrates the constitutional revision of the MANSSA corpus finalized by the Direction in June 2026. The revision covers:

- Legal architecture – governance under a Swiss foundation (Stiftung), regulated operations and Labs in Morocco (targeting Bill 42.25 – Bank Al-Maghrib + AMMC), per-asset SPVs in the OHADA space.
- \$MANSSA token positioning – governance and utility asset; value captured by protocol activity, not by treasury backing. \$MANSSA is neither a redeemable claim on the reserve nor a currency.
- Solidarity Allocation (5%) replacing the Community category.
- KETZAL refounded as the sovereign trust and compliance layer – asset-light, no proprietary token, bicameral oracle architecture.

Whitepaper v4 of May 2026 is hereby superseded. Archived as historical reference only.

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01

// SECTION • 01

Executive Summary

« *A continent that computes is a
continent that prices its own value.* »

// SECTION · 01

Executive Summary

MANSSA® is the reserve protocol of Africa. It binds, on a single integrated stack, the tokenization of African real-world assets, sovereign-grade decentralized governance, a Web3 accelerator focused on the continent, and trust and compliance infrastructure rooted in Morocco — under a triple-jurisdiction legal architecture: governance under a **Swiss foundation (Stiftung)**, regulated operations and Labs in **Morocco** (targeting Bill 42.25 — Bank Al-Maghrib + AMMC), and per-asset **SPVs in the OHADA space**.

The Protocol does not duplicate existing tokenization platforms. It opposes the systematic extraction of African value through foreign tokenization and proposes the inverse: a stack where pricing, custody, audit, governance, and trust infrastructure are sovereignly performed.

// FIVE PRIMITIVES, ONE ECOSYSTEM

\$MANSSA governance and utility asset · MANSSA DAO · RWA Pillar · LaunchLab · KETZAL — sovereign trust and compliance layer.

10 Bn

CARDINAL TREASURY TARGET

Non-negotiable. Central horizon 2031–2032.

8

ANTI-ZIG PRINCIPLES

Non-negotiable structural commitments.

5

PRIMITIVES

One integrated protocol stack.

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The problem in three data points

- Africa hosts **18% of world population** and produces **less than 1% of world compute capacity** (*USGS 2025; IEA*).
- The continent generates **one-third of strategic minerals globally** yet captures **less than 5% of their tokenized financial value** (*BCG Tokenization Report 2024; RWA.xyz May 2026*).
- Tokenized RWA reached **30 billion USD globally in early 2026** — the majority of emissions touching African assets are operated from outside the continent (*Chainalysis Africa Report 2025*).

The solution in five primitives

PRIMITIVE	FUNCTION	TOKEN
\$MANSSA	Governance and utility asset · protocol flywheel · holder-primacy doctrine	\$MANSSA · sMANSSA
DAO	On-chain governance · treasury allocation · holder-primacy protection	sMANSSA
RWA	Agricultural + gold tokenization via partner SPVs · eight anti-ZiG principles	\$aAFRICA · \$gAFRICA
LaunchLab	Web3 accelerator — Africa-native DeFi, RWA tooling, on-chain identity	—
KETZAL	Sovereign trust & compliance · bicameral oracle · continuous reserve attestation	—

Financial snapshot — Treasury trajectory

PHASE	TREASURY TARGET	CENTRAL HORIZON
P1	100 M USD	T+12 months
P2	500 M USD	T+24 months
P3	1 Bn USD	T+36 months
P4	3 Bn USD	T+48 months
P5	10 Bn USD CARDINAL	2031–2032

T = Token Generation Event date.

Why now

Three structural conditions converge at this precise moment:

- **Regulatory maturity (Morocco — Bill 42.25)** — Morocco is building the continent's leading regulatory framework for digital assets, anchored by Bank Al-Maghrib (BAM) and the Autorité Marocaine du Marché des Capitaux (AMMC). MANSSA is building its pre-submission dossier now, positioning as a first-mover.
- **African asset pipeline maturity** — The agricultural pipeline for \$aAFRICA Phase 1 is operational. EUDR compliance infrastructure creates a compliance layer that, combined with MANSSA's oracle infrastructure, makes tokenization viable at scale within 12 months of TGE.
- **Critical window** — Before foreign tokenization infrastructure captures the continent's sovereign RWA pipeline at scale.

The window is open. MANSSA moves to close it — from the inside.

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02

// SECTION • 02

The Thesis

Capital is moving, infrastructure is missing.

« *Sovereignty is not declared. It is computed.* »

The asymmetry is structural, not accidental

Africa controls approximately **30% of the world's strategic mineral reserves** — lithium, cobalt, coltan, manganese, gold, platinum group metals. It hosts the world's youngest and fastest-growing population. It is the site of the most dynamic expansion of agricultural production over the next three decades.

And yet:

- **Less than 1% of global compute capacity** is located on the continent. Every pricing model, every algorithmic market, every oracle that touches African commodities runs on infrastructure located elsewhere.
- **Less than 5% of tokenized financial value** tied to African real-world assets is captured by African-controlled instruments.
- **Less than 3% of global DeFi liquidity** is accessible to African operators without routing through foreign jurisdictions.

This is not a market failure. It is a **sovereignty lock** — structural, layered, and self-reinforcing.

Why existing solutions do not solve it

Global RWA platforms operate sovereign infrastructure correctly — but from the outside. They tokenize African assets, but pricing, custody logic, audit standards, and governance are set by non-African frameworks.

Regional blockchain initiatives are constructive and MANSSA engages them as strategic partners. They are, however, incubation-oriented. They do not provide the infrastructure layer — oracle, trust & compliance, regulated legal vehicle, institutional treasury mechanics.

CBDC efforts from African central banks are promising but institution-bound. MANSSA is a *continental reserve instrument*, not a national monetary tool.

// THE MANSSA THESIS

Africa needs to own the compute, the pricing, the custody, the governance, and the capital formation — not just the assets. MANSSA builds that ownership infrastructure.

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Three structural conditions that make the window real

I – REGULATORY MATURITY (MOROCCO – BILL 42.25)

Morocco is building the continent's leading regulatory framework for digital assets, anchored by Bank Al-Maghrib (BAM) and the Autorité Marocaine du Marché des Capitaux (AMMC). Bill 42.25 is expected to come into force; it is designed for asset-referenced tokens and utility tokens – the categories that \$aAFRICA, \$gAFRICA, and \$MANSSA respectively target. MANSSA is building its pre-submission dossier now.

II – AFRICAN ASSET PIPELINE MATURITY

The cocoa, coffee, vanilla, and cotton pipeline for \$aAFRICA Phase 1 is operational. EUDR compliance infrastructure (traceability, IoT, certification) is being built into African agricultural value chains under EU mandate – creating a compliance layer that, combined with MANSSA's oracle infrastructure, makes tokenization viable at scale within 12 months of TGE.

The gold pipeline for \$gAFRICA Phase 2 operates on LBMA-certified custody infrastructure – the only international standard for gold enabling institutional-grade on-chain issuance.

III – TRUST INFRASTRUCTURE

Morocco provides a unique combination: a 45% renewable energy grid evolving toward 52% by 2030 (IRENA); stable regulatory and fiscal environment for technology infrastructure; geographic positioning as the continental gateway between African production and European capital markets; and the talent pool from which KETZAL's engineering team is built.

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03

// SECTION • 03

Heritage 1324

| *From Mansa Musa 1324 to MANSSA®.*

« *The name is not a package. The name is the project itself.* »

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In 1324, Mansa Musa I, emperor of the Mali Empire, conducted his hajj pilgrimage — travelling across the continent with a retinue of 60,000 people and reportedly carrying enough gold to destabilize the Egyptian economy for a decade through currency deflation.

The image is not one of mere wealth. It is one of **sovereign capital formation at continental scale**. Mansa Musa did not need a permission slip from a foreign clearing house. He moved capital as a sovereign — on his own infrastructure, by his own rules, toward his own strategic objectives.

1324 is not nostalgia. It is a blueprint.

The name

MANSSA® — two S, registered trademark — is a direct invocation of **Mansa**, the Manding word for *king* or *emperor*. The doubling of the S marks the transformation: from a historical title to a protocol identity, from a personal sovereign to a collective sovereignty architecture.

Brand deposits filed across OMPI/Madrid, USPTO, EUIPO, OAPI, ARIPO. MANSSA is unaffiliated with any other entity using a similar name. A disambiguation page is published at manssa.io/about.

The eight anti-ZiG principles as heritage

Each principle is the specific inversion of a failure mode that extracted African value in historical tokenization experiments:

- **Not money** inverts currency colonialism.
- **Issuer ≠ regulator** inverts captured oversight.
- **Tier-1 audits** inverts opacity.
- **130–150% overcollateralization** inverts thin-margin extraction.
- **Physical redemption** inverts paper-only tokenization.
- **Auto-arbitrage** inverts manual intervention and political pricing.
- **Reserves on-chain** inverts off-chain custody opacity.
- **Infra ≠ issuer** inverts vertical integration that concentrates risk on a single entity.

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04

// SECTION • 04

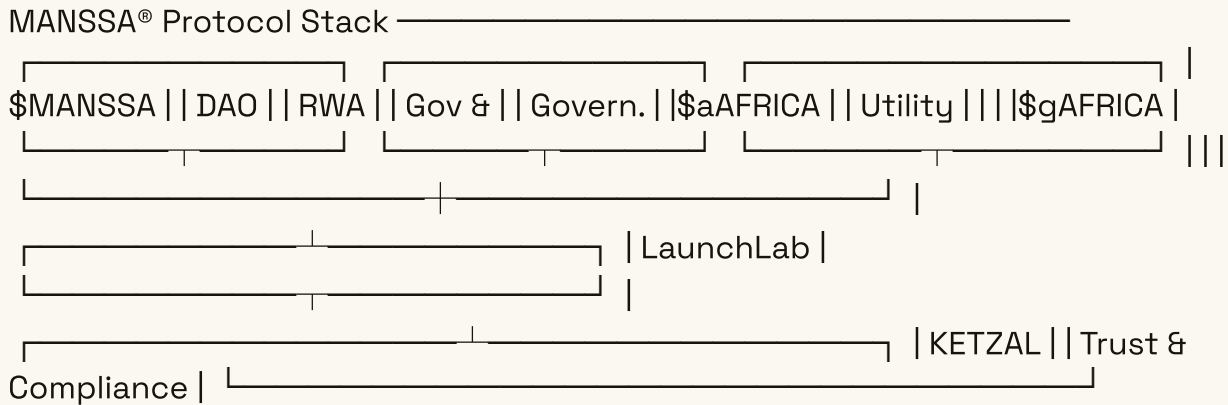
The Five Primitives

« *Five primitives. One ecosystem.* »

// SECTION · 04

The Five Primitives

MANSSA is built as five interconnected Web3 primitives. Each functions standalone. Together, they form a complete infrastructure where each pillar reinforces the others.



01 — \$MANSSA Governance and Utility Asset — 100M tokens fixed supply. ERC-20 on Ethereum mainnet. Primary distribution via bonding with 210-day commitment window. \$MANSSA governs the protocol and captures, through its utility, the value of the ecosystem’s activity — not the reserve itself.

02 — DAO Constrained Governance — On-chain governance body. Anti-whale cap 5%. Quorum 10%. Two-tier timelock. Security Council 7 independent mandataries.

03 — RWA Pillar — Tokenization of African real-world assets through partner-SPV model. Sub-brands: \$aAFRICA (agriculture, Phase 1) and \$gAFRICA (gold, Phase 2).

04 — LaunchLab — Web3 accelerator for African builders. Two cohorts per year. Three thesis verticals: Africa-native DeFi, RWA tooling, on-chain identity.

05 — KETZAL — Sovereign trust and compliance infrastructure. Asset-light. Bicameral oracle: proprietary attestation layer + Chainlink OCR bridge.



05

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\$MANSSA

| *Governance and Utility Asset.*

« *Holders come first, always.* »

Doctrinal position

\$MANSSA is the protocol’s **governance and utility asset**. Its emission and bonding fund and sustain the reserve. It governs the protocol and captures, through its utility, the value of the ecosystem’s *activity* — not the reserve itself.

The **10 billion USD target is the reserve’s target**, not \$MANSSA’s market capitalization target. \$MANSSA is neither a redeemable claim on the reserve nor a currency. The **holder-primacy doctrine** — *Holders come first, always* — is enshrined at the foundational level of the Protocol’s design.

Allocation — foundational, non-modifiable by ordinary vote

ALLOCATION	SHARE	PURPOSE
Treasury	35%	Sovereign treasury — cardinal target 10 Bn USD
Bonding	25%	Primary distribution mechanic — cliff 30d + vesting 180d
Team	15%	Long-horizon alignment vesting
LaunchLab	10%	LaunchLab pillar operations and portfolio support
Ecosystem	10%	Grants, strategic partnerships, institutional integrations
Solidarity Allocation	5%	Initial distribution · ambassadors · solidarity programs

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Bonding mechanics

Bonding is not a trade. It is a commitment. The mechanics protect the token from sentiment-driven reversals and ensure that the treasury grows with durable, committed capital.

PARAMETER	VALUE	PURPOSE
Cliff	30 days after subscription	Minimum commitment lock
Linear vesting	180 days after cliff	Total window: 210 days from subscription
No accelerated vesting	Absolute — no exceptions	Prevents early-exit arbitrage
Dynamic discount	2% to 15%	Indexed on aggregate demand + treasury/float ratio
Daily cap	1% of circulating supply / day (Phase 1)	Prevents treasury dilution spikes
Circuit-breaker	Engages if discount > 18% or spot drop > 20%/24h	Automatic protection mechanism

Value capture for \$MANSSA

\$MANSSA captures the value of the ecosystem's activity through two structural channels:

- **Structural demand sink** — LP pairs, utility payments for KETZAL services, LaunchLab alignment (projects acquire and lock \$MANSSA).
- **Fee-share staking** (sMANSSA) — programmatic, without promised yields.

sMANSSA — Staked governance

Holders who stake \$MANSSA receive **sMANSSA** — the governance-weighted staking derivative. sMANSSA represents: programmatic share in protocol fee revenues · governance weight in DAO proposals and votes · priority access to LaunchLab co-investment opportunities.

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DAO Governance

Constrained governance. Holder-primacy protected.

« *A robust DAO is a constrained DAO. The holder-primacy doctrine is protected by structural brakes, not by promises.* »

Governance framework

PARAMETER	VALUE	ATTACK VECTOR ADDRESSED
One token = one vote	With anti-whale cap	Plutocracy prevention
Anti-whale cap	5% / address (Sybil-aggregated)	Whale capture
Quorum	10% minimum	Governance apathy attacks
Timelock – ordinary	48 hours	Flash loan attacks
Timelock – sensitive	168 hours	Coordinated governance capture
Execution delay	24 hours post-timelock	Security Council intervention window
Anti-proposal-stuffing	Max 1 proposal / address / 7d	Spam governance
Submission deposit	10,000 \$MANSSA	Low-cost harassment attacks

Security Council

Seven independent mandataries. Intervention quorum: 5 of 7. Powers: **suspension only – never adoption.** Cannot pass proposals; can only pause execution during the execution delay window.

SEAT	PROFILE
1	Crypto-specialized lawyer
2	Smart-contract auditor
3	Tokenomic economist
4	Independent Web3 governance specialist
5	Continental regulatory expert
6	Senior Web3 developer
7	Community-designated holder

07

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RWA Pillar

\$aAFRICA + \$gAFRICA. Tokenize without extracting.

« Tokenize without extracting. Price without capturing. »

The MANSSA RWA Pillar operates on a **partner-SPV model**. MANSSA Foundation is the infrastructure provider: technology, methodology, oracle standards, audit framework. Token emissions are operated by partner SPV issuers — legally separate from the Foundation. MANSSA Foundation never issues tokens directly.

\$aAFRICA — Agricultural commodities (Phase 1)

\$aAFRICA covers an initial selection including: cocoa, coffee, vanilla, cotton, cashew, shea, tea, rubber, sesame, gum arabic, cut flowers.

PARAMETER	VALUE
Overcollateralization	130–150% — on-chain verifiable
Audit	Quarterly — tier-1 independent cabinet
Physical redemption	Enshrined — holders can withdraw underlying commodity
Custody	Certified local producers and cooperatives
Regulatory compliance	EUDR (EU Deforestation Regulation)

\$gAFRICA — LBMA-certified gold (Phase 2)

PARAMETER	VALUE
Custody standard	LBMA-certified (London Bullion Market Association)
Overcollateralization	130–150% — on-chain verifiable
Audit	Quarterly — tier-1 independent cabinet
Physical redemption	Enshrined — holders can withdraw physical gold
Reporting	Daily reserves update — public on-chain read

The addressable universe

Africa's tokenizable RWA base is immense. MANSSA's infrastructure serves an addressable universe across multiple dimensions:

- **Agriculture & soft commodities** — cocoa, coffee, tea, cotton, cashew, shea, vanilla, gum arabic, rubber, sesame, cut flowers.
- **Metals & minerals** — gold, cobalt, copper, lithium, manganese, bauxite, iron, rare earths.
- **Energy** — solar, wind, hydroelectricity, green hydrogen.
- **Real finance** — trade receivables, SME receivables, microfinance, invoices.
- **Climate** — carbon credits, reforestation.

RWA Oversight Committee

Composed of independent third parties. Functions: continuous audit of active emissions against the eight anti-ZiG principles · opposability control · quarterly public reporting · annual review of overcollateralization ratios and custody standards.

Asset pipelines

Carbon and agri pipeline — traced carbon credits via IoT traceability (Connected Farm sensors), EUDR compliance infrastructure, measurable emission reductions tied to African agricultural transitions.

Receivables pipeline — actuarial rating, real-time monitoring of repayment flows, automated alerts on default risk indicators — enabling structured credit tokenization at African SME scale.

Energy pipeline — tokenized green electricity production from Moroccan and West African renewable installations, with on-chain measurement of effective generation and certified off-takes.

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KETZAL Trust

Sovereign Trust & Compliance — bicameral oracle.

« *KETZAL does not add trust. It makes trust legible.* »

KETZAL is not a fourth pillar. It is the sovereign trust and compliance layer that makes all three pillars operational. It operates asset-light: its sovereign differentiation lies not in hardware ownership but in the proprietary attestation architecture, the continental calibration, and the institutional-grade compliance engine it operates.

The KETZAL oracle — bicameral by design

The oracle guarantees one thing, and proves it continuously: **that data is not altered between its source and the blockchain.** Key distinction — **integrity, not veracity**: an independent valuation agent establishes what the asset is worth; the oracle transmits that verdict on-chain unalterably.

Bicameral architecture: one proprietary layer (material attestation + confidential computation) that **computes**, one interoperability bridge (Chainlink OCR) that **publishes**. The proprietary layer is the source of truth; the bridge is the channel. If the bridge falls, the prices continue.

Operational capabilities

CAPABILITY	WHAT IT ENABLES
Dynamic commodity pricing	RWA instruments priced on real data, not imported indices
Actuarial RWA modelling	Institutional-grade risk modelling for structured African assets
Automated on-chain audits	Continuous — attestation at chain speed
Anomaly detection	Real-time alerts on reserve deviation, custody drift
External data bridges	Certified data paths from real-world sources to the protocol
Governance simulation	Economic and governance stress-testing before proposals execute
IoT integration	Farm-to-vault traceability for agricultural and energy assets

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LaunchLab

| *Web3 accelerator for African builders.*

« *We don't seek validators. We seek pillars.* »

LaunchLab incubates builders — RWA protocols, Web3 startups, founders transforming an asset or idea into a living token — providing capital, protocol, and network in one move. Two cohorts per year. Three thesis verticals: Africa-native DeFi, RWA tooling, on-chain identity.

Investment model: equity + token capture. LaunchLab takes equity in incubated ventures and a protocol-level token position that returns to the DAO treasury on exit.

Four concrete contributions

- **Pre-integrated RWA stack** — Oracles, pricing models, audit automation, smart contract templates. Time-to-production reduced from 18 months to 4–6 months.
- **KETZAL trust & compliance from day one** — Oracle, KYC/AML, proof-of-reserve — integrated, not built.
- **Tokenization stack** — Issuance, management, and redemption contracts with overcollateralization built in.
- **Capital + protocol + network** — MANSSA investment, full stack access, continental mentorship network.

Partnership model

LaunchLab does not aim to compete with existing African Web3 incubators. Strategic position: **partnership over competition**. MANSSA provides the infrastructure layer that existing incubators cannot. Existing incubators provide the continental network that MANSSA is building.

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Tokenomics & Allocation

*Every allocation is a commitment. Every
commitment is a doctrine.*

Overview

Token	\$MANSSA
Network	ERC-20 · Ethereum mainnet
Total supply	100,000,000 – fixed
Supply model	Non-inflationary · fixed cap
Governance derivative	sMANSSA (staked \$MANSSA)

Allocation breakdown

CATEGORY	TOKENS	SHARE	LOCK / VESTING
Treasury	35,000,000	35%	Protocol-controlled — DAO allocation
Bonding	25,000,000	25%	Cliff 30d + linear vesting 180d
Team	15,000,000	15%	Cliff 12m + linear vesting 36m
LaunchLab	10,000,000	10%	Cohort-locked — DAO governed
Ecosystem	10,000,000	10%	Milestone-gated — DAO governed
Solidarity Allocation	5,000,000	5%	Initial distribution · ambassadors · solidarity

Protocol-Owned Liquidity (POL)

A portion of treasury inflows is permanently allocated to Protocol-Owned Liquidity. POL is never withdrawn. MANSSA's liquidity depth grows proportionally to its treasury — eliminating the common failure mode of rented liquidity.

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// SECTION • 11

Treasury P1–P5

An honest trajectory. The cardinal target stands.

« *An honest trajectory is more credible than a spectacular target. The cardinal target stands. The path becomes precise.* »

Cardinal target: 10 billion USD sovereign protocol treasury — non-negotiable. The 10 Bn USD target is the reserve’s target, not \$MANSSA’s market capitalization target.

TIER	TREASURY TARGET	CENTRAL HORIZON	HIGH SCENARIO	LOW SCENARIO
P1	100 M USD	T+12	T+9	T+18
P2	500 M USD	T+24	T+18	T+36
P3	1 Bn USD	T+36	T+24	T+48
P4	3 Bn USD	T+48	T+36	T+60
P5	10 Bn USD CARDINAL	2031–2032	2029–2030	2033–2034

T = TGE date. The 2029–2030 horizon corresponds to the high scenario. The central horizon is 2031–2032.

Phase 1 financial trajectory

SCENARIO	RWA AUM	GROSS REVENUES	ACQUISITION COSTS	NET MARGIN
High	75 M USD	1.1 M USD	2.5 M USD	(1.4) M USD
Median	40 M USD	0.6 M USD	2.0 M USD	(1.4) M USD
Low	20 M USD	0.3 M USD	1.5 M USD	(1.2) M USD

Phase 1 is recognized as an investment phase — **negative net margin is structurally consistent** with a protocol building permanent infrastructure.

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// SECTION • 12

Sovereign Architecture

| *Three entities. Operationally distinct.*

« Sovereign governance. African operations. Neutral wrapper. »

ENTITY	JURISDICTION	ROLE
MANSSA Foundation (Stiftung)	 Switzerland	Protocol governance · IP holder · DAO constitutional anchor · ownerless
MANSSA Labs + Regulated entity	 Morocco — targeting Bill 42.25 (BAM + AMMC)	Regulated issuance (\$aAFRICA/\$gAFRICA) · LaunchLab · KETZAL · R&D
SPV per asset	 OHADA space	Real-asset holding · bankruptcy-remote · sole issuer · risk bearer

Why this architecture

Swiss Stiftung — the most proven ownerless structure globally for a protocol dedicated to a community of holders. Neutral, FATF-clean, reference-grade. IP and governance anchor on a tested vehicle.

Morocco — Bill 42.25 — the only jurisdiction combining African sovereignty signal, regulatory framework targeting crypto (BAM + AMMC), and maximum operational substance. First-mover positioning on the continent's emerging reference framework.

OHADA SPVs — each real asset held by a dedicated, bankruptcy-remote vehicle. Isolates regulatory and credit risk per asset class. Enables the eight anti-ZiG principles at a structural level.

Operational desolidarization — six levels

Distinct: bank accounts · boards of directors · arm's-length inter-entity contracts · analytical accounting · operational premises · HR policies.

Distinct brand emails: foundation@manssa.io · labs@manssa.io · contact@manssa.io.

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Brand Doctrine

| *8 Principles Anti-ZiG. No exceptions.*

« *Not money. Not a promise. Not subject to political pricing. Eight rules. No exceptions.* »

The eight anti-ZiG principles are **doctrinal** — they cannot be modified by ordinary governance vote. Each is the specific inversion of a historically-documented failure mode in sovereign digital currency or tokenization experiments.

#	PRINCIPLE	OPERATIONAL MEANING
01	Not money	RWA instruments are asset-backed certificates — never payment rails. \$MANSSA is a governance and utility asset.
02	Issuer ≠ regulator	Structural separation enforced. Independent oversight committee validates emissions.
03	Tier-1 audits	Quarterly audits by independent tier-1 cabinets — physical and accounting verification.
04	130–150% overcollat.	On-chain verifiable margin between underlying assets and tokens issued.
05	Physical redemption	Token holders retain the right to withdraw the underlying.
06	Auto-arbitrage	Smart contract stabilization mechanisms, not manual intervention.
07	Reserves on-chain	Daily public-read updates. Treasury wallet addresses publicly disclosed.
08	Infra ≠ issuer	MANSSA Foundation never issues directly. Token emissions operated by partner SPVs, legally separate.

Any emission that does not satisfy all eight simultaneously is rejected at the infrastructure layer.

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// SECTION • 14

Roadmap & TGE

The Protocol builds before it launches.

Pre-launch milestones (Pre-TGE)

- Constitutional revision corpus signed and filed.
- External engineering, legal, and market-maker mandates received.
- Smart-contract dual audits completed (two independent tier-1 cabinets).
- Security Council operational — 7 independent mandataries legally mandated.
- Brand trademark deposits filed: OMPI/Madrid, USPTO, EUIPO, OAPI, ARIPO.
- Swiss Stiftung registration in progress.
- Morocco Labs registration + Bill 42.25 pre-submission dossier prepared.

TGE + Phase 1 (T → T+12)

- **Token Generation Event.** Bonding active.
- \$aAFRICA pilot emission live — agricultural pipeline Phase 1.
- **KETZAL trust & compliance layer operational** — bicameral oracle live.
- LaunchLab Cohort 1. DAO governance fully operational.
- **Treasury target P1: 100 M USD** (central horizon T+12).

Phase 2 (T+12 → T+36)

- \$gAFRICA emission live — LBMA-certified gold pipeline.
- **KETZAL expanded services** — institutional offerings operational.
- Chainlink OCR bridge (Chamber 2) in production.
- LaunchLab Cohorts 2–4. Expanded RWA pipeline: receivables, energy, carbon.
- **Treasury target P3: 1 Bn USD** (central horizon T+36).

Phase 3 (T+36 → T+72)

- **KETZAL continental scale.** Continental expansion of RWA pipeline.
- DAO constitutional audit cycle.
- **Treasury target P5: 10 Bn USD** (central horizon 2031–2032).

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Canonical Documents

The following documents constitute the canonical reference corpus of MANSSA® — Africa's Reserve Protocol:

- **MANSSA® Litepaper v5** — Concise investor executive summary (8 pages).
- **KETZAL Founding Document** — Full technical and doctrinal specifications for the trust and compliance infrastructure.
- **RWA Pillar Document v2** — Methodological and functional architecture of the RWA Pillar.
- **Legal Architecture Cadrage** — Tri-jurisdictional structure (CH/MA/OHADA).

External references cited in this document

- USGS 2025 — Mineral commodity summaries, strategic mineral production data.
- BCG Tokenization Report 2024 — Real-world asset tokenization market sizing.
- RWA.xyz Dashboard — Live tokenized RWA market data (accessed May 2026).
- Chainalysis Africa Report 2025 — Crypto adoption and DeFi usage in Africa.
- IRENA 2030 Renewable Energy Projections — Morocco grid evolution data.
- IEA Digital Energy Report 2024 — Global data center capacity distribution.

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« *Pioneer. Sovereign. First-Holder.* »

« *Africa's reserve protocol.* »

MANSSA is not a pitch. It is not a promise. It is not a white paper in the traditional sense — a document that describes what a team would like to build.

MANSSA is a Protocol. The architecture is designed. The legal vehicles are in formation. The oracle infrastructure is specified to production standards. The governance framework is codified. The eight principles are written into the smart contract layer.

The question is not whether Africa needs a reserve protocol. The data makes that case without advocacy. The question is whether the infrastructure to make African sovereign tokenization possible will be built by Africans, for Africa — or extracted from the outside.

MANSSA answers that question by building.

Who MANSSA seeks

- **Strategic capital** · institutional anchors aligned with holder-primacy doctrine · long-horizon partners.
- **RWA partners** · sovereign and private operators of agricultural, gold, energy, and credit assets · willing to operate under the eight anti-ZiG principles.
- **Engineering partners** · trust infrastructure architects · oracle specialists · smart-contract auditors (dual independent tier-1 firms) · market-makers tier-1.
- **Regulatory dialogue** · Bank Al-Maghrib · AMMC · OAPI · ARIPO.

Engage with MANSSA®

Site · manssa.io

Contact · contact@manssa.io

Foundation · foundation@manssa.io · Labs · labs@manssa.io

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Annexes

A1 – Strategic mineral data (USGS 2025)

- Cobalt: ~70% of world mine production (DRC primary).
- Manganese: ~40% of world mine production.
- Platinum Group Metals: ~75% of world mine production (South Africa primary).
- Gold: ~20% of world mine production.
- Lithium: emerging production base (Zimbabwe, DRC, Ghana).

A2 – Tokenized RWA market context (BCG 2024 / RWA.xyz May 2026)

- Global tokenized RWA market: ~30 Bn USD in early 2026 (RWA.xyz dashboard).
- Annual growth rate: 200–300% CAGR (BCG Tokenization Report 2024).
- Institutional-grade tokenized assets: ~85% of total market value.
- African-origin tokenized assets with African-controlled protocols: estimated < 5% of the above.

A3 – Compute capacity asymmetry (IEA / USGS 2025)

- Africa's share of global data center capacity: < 1% (IEA Digital Energy Report 2024).
- Morocco renewable energy grid: 45% in 2024, target 52% by 2030 (IRENA).
- Sub-Saharan Africa tech infrastructure investment: \$12 Bn projected 2024–2028 (IFC).

A4 – African DeFi adoption (Chainalysis 2025)

- Africa ranks among the top 3 regions globally for P2P crypto adoption (Chainalysis 2025).
- African stablecoin usage for cross-border remittance: growing at 180% YoY in West Africa.
- West Africa (ECOWAS) accounts for > 40% of African on-chain transaction volume.

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