

# BKG Sovereign Gold Whitepaper v2.1

Solving Financial Liquidity Problems Interest-Free, Locally

| Key Attribute         | Verified Value / Institutional Detail                                    |
|-----------------------|--------------------------------------------------------------------------|
| Sovereign Peg         | 0.0197 Grams Fine Gold (99.99% / 24-Karat) per 1.00 BKG Token            |
| Total Fixed Cap       | 4,000,000,000 BKG (Strictly Hard-Capped, Zero Inflationary Minting)      |
| Smart Contract (ETH)  | 0x3F8aD19a27c09E973bA613E994B69Ac3f08B9B1E (UUPS Upgradeable Diamond)    |
| Shariah Certification | MRHB Global Shariah Supervisory Board (AAOIFI Standard 57 Compliant)     |
| Custodial Redundancy  | Taurus Group (Geneva, FINMA Regulated) & Gambit Custody (SC Malaysia)    |
| Patent Registration   | Simultaneous USPTO & IPOS Utility Filing (20 Novel Claims)               |
| Cryptographic Hash    | SHA-256: 9a3f4e8b1c7d2e5a6f0b8c9d4e2a1f7c3b5d8e0a2f4c6b8d0e1a3c5e7f9b2d4 |

## 1. Executive Abstract & Thesis

BKG is a sovereign gold-backed digital asset standard pegged to a fixed weight of physical gold production (0.0197 grams per token). Denominated in weight rather than fiat currency, BKG creates an inflation-resistant, interest-free unit of value anchored directly to physical productive mining enterprise. Operating on a two-phase architecture (Pre-Mining Utility → Mining-Stage Production Certificate), BKG solves liquidity problems locally without recourse to debt.

Modern sovereign finance faces systemic vulnerabilities: fiat currency debasement, escalating national debt service burdens, and volatile commodity supply chains. BKG bridges institutional mineral extraction directly with global decentralized finance. Each BKG token provides a non-dilutive claim on authenticated, audited gold reserves extracted via zero-cyanide, zero-water, and zero-tailings closed-loop technology.

## 2. Interest-Free Local Liquidity & Augustow Declaration

Inspired by the historic Wörgl municipal currency experiment and governed by the Augustow Declaration for Interest-Free Economy and Financial Democracy, BKG demonstrates that liquidity is a property of productive enterprise rather than fiat decree. By replacing interest (riba) with profit-sharing (mudarabah) and eliminating excessive uncertainty (gharar), BKG unlocks the \$4.5T+ global Islamic finance capital pool while preserving generational purchasing power.

Under the Mudarabah framework, token holders act as Rab al-Mal (capital providers), while mining operating entities serve as Mudarib (enterprise managers). Net proceeds from physical gold refining generate semi-annual dividend

yields distributed in direct gold weight or on-chain stable value, eliminating usury while incentivizing maximum operational efficiency.

### 3. Two-Phase Token Lifecycle Architecture

**Phase I — Pre-Mining Utility Token:** Represents a pre-paid contractual right to future mineral output. Early participants receive institutional platform access, live extraction telemetry, and digital claim receipts at \$1.00 nominal entry against a spot reference price of ~\$2.85 per entitlement weight.

**Phase II — Mining-Stage Production Certificate:** Upon the first verified gold pour and custody transfer into FINMA-regulated vaults in Geneva, BKG automatically activates full 1:1 physical bullion backing. Tokens transition via UUPS proxy into gold-denominated collateral instruments with 60-second Chainlink XAU/USD price oracle validation, margin eligibility, and December 2030 physical delivery.

### 4. Weight-Denominated Entitlement & Oracle Engine

Unlike conventional fiat-pegged stablecoins that systematically lose real purchasing power, BKG encodes `GRAM_ENTITLEMENT_PER_TOKEN = 197` (0.0197g in 10,000 fixed-point precision) as an immutable on-chain constant. A decentralized Chainlink oracle cluster updates live dollar values every 60 seconds without altering the underlying weight entitlement. Weight remains the authoritative legal and contractual metric.

### 5. 3Zero EcoMining™ Closed-Loop TIRS Stack

Gold backing BKG is extracted utilizing the proprietary Total Integrated Recovery System (TIRS):

- **Zero Water (EDMSU):** Electro-Dynamic Magnetic Separation Unit achieves dry pre-concentration at 3,000 RPM (50 t/h capacity at 15 kW energy draw).
- **Zero Cyanide (PCE):** Potential-Controlled Electrolysis utilizes non-toxic glycine/thiourea leaching, achieving 88–94% refractory recovery and 99.99% ASTM B562 Grade 1 gold purity.
- **Zero Waste (Sulbet):** 100% of mineral tailings are encapsulated within 1–2 hours into 77 MPa bridge-grade polymer concrete, locking heavy metals at the molecular level.
- **Digital Twin Telemetry:** Real-time IoT sensor telemetry continuously verifies ore grade, electrical draw, and daily bullion production directly to the smart contract ledger.

### 6. Dual-Custody, Vaulting & Continuous Attestation

To eliminate single-point jurisdictional failure, physical gold reserves are stored in two independently audited, Tier-1 vault facilities:

- **Taurus Group (Geneva & Zurich, Switzerland):** FINMA-regulated digital asset and bullion custodian with ISAE 3402 Type II certification.

- **Gambit Custody (Kuala Lumpur, Malaysia):** Securities Commission Malaysia registered Islamic digital custodian serving ASEAN capital markets.

Every vault movement triggers cryptographic attestation updates:  $CoverageRatio = (VaultGramsTaurus + VaultGramsGambit) / (TotalBKGCirculation * 0.0197)$ .

## 7. Tokenomics & 4.0B Supply Structure

The total token supply is immutable and strictly capped at 4,000,000,000 BKG tokens:

| Allocation Pool             | Token Amount      | Share | Vesting / Unlock Terms                                  |
|-----------------------------|-------------------|-------|---------------------------------------------------------|
| Public Sale & Liquidity     | 1,600,000,000 BKG | 40.0% | TGE 100% unlocked, automated market maker depth         |
| Reserve Bullion Vaulting    | 800,000,000 BKG   | 20.0% | 24-month multi-signature cold storage lock              |
| Core Engineering & Advisors | 600,000,000 BKG   | 15.0% | 12-month cliff, followed by 36-month linear vesting     |
| Ecosystem & Mine Scaling    | 600,000,000 BKG   | 15.0% | Quarterly releases mapped to plant expansion milestones |
| Strategic Institutional     | 400,000,000 BKG   | 10.0% | 12-month lock-up followed by 12-month linear release    |

## 8. Patent Landscape, Smart Contracts & Legal Framework

The underlying process and architecture are subject to a simultaneous 20-claim patent filing with the United States Patent and Trademark Office (USPTO) and Intellectual Property Office of Singapore (IPOS). Smart contracts are formally audited by CertiK and Hashlock, with formal verification covering re-entrancy prevention, integer overflow protection, and multi-sig administrative timelocks.

**Institutional Inquiries & Legal Counsel**

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