



Digitized Tradition

On-Chain Tokenized Precious Metals

Bridging Physical Gold, Silver, Platinum & Palladium
with Blockchain Technology

Whitepaper v1.0

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This document is for informational purposes only and does not constitute financial advice.

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1. Executive Summary

Auxite is a revolutionary blockchain platform that bridges the gap between traditional precious metals ownership and decentralized finance (DeFi). By tokenizing physically-allocated gold, silver, platinum, and palladium stored in LBMA-certified vaults worldwide, Auxite enables anyone to own, trade, and earn yield on real precious metals with the transparency and efficiency of blockchain technology.

Our mission is to democratize access to precious metals investment while preserving the timeless value that these assets represent. **Digitized Tradition** - this is the core philosophy that drives Auxite.

Each Auxite token represents exactly 1 gram of the corresponding precious metal, fully allocated and stored in secure vaults across Zurich, London, Singapore, and Dubai.

Key Highlights

- **100% Physical Backing:** Every token is backed by real, allocated precious metals with on-chain proof of reserves
- **LBMA-Certified Custody:** Metals stored in world-class vaults meeting London Bullion Market Association standards
- **Real-Time Transparency:** On-chain verification of all allocations, redemptions, and vault assignments
- **DeFi Integration:** Stake, lease, and earn yield on your precious metal holdings
- **Global Accessibility:** 24/7 trading with instant settlement and no minimum investment
- **Institutional Grade:** Built for both retail and institutional investors with tiered membership benefits

Platform Metrics

Metric	Value
Supported Metals	Gold, Silver, Platinum, Palladium
Token Standard	ERC-20 (Ethereum)
Minimum Investment	No minimum
Trading Hours	24/7/365
Settlement	Instant (on-chain)
Vault Locations	Zurich, London, Singapore, Dubai
Custody Partners	Brink's, Loomis, G4S

2. Introduction & Market Opportunity

The Precious Metals Market

The global precious metals market represents one of the oldest and most trusted stores of value in human history. Gold alone has a market capitalization exceeding \$12 trillion, with silver, platinum, and palladium adding hundreds of billions more. These metals have served as monetary anchors, industrial commodities, and safe-haven assets for millennia.

Despite their enduring value, traditional precious metals investments suffer from significant friction: high premiums, storage costs, limited divisibility, and lack of transparency. The average retail investor faces premiums of 5-15% over spot price, annual storage fees, and the inability to use their holdings in modern financial applications.

Global Precious Metals Market (2024)

Metal	Market Cap	Daily Volume	Primary Uses
Gold	\$12.5 Trillion	\$180B/day	Store of Value, Jewelry
Silver	\$1.4 Trillion	\$15B/day	Industrial, Solar
Platinum	\$240 Billion	\$3B/day	Automotive, Jewelry
Palladium	\$180 Billion	\$2.5B/day	Catalysts, Electronics

The Tokenization Opportunity

Blockchain technology and asset tokenization present a transformative opportunity to modernize precious metals ownership. The tokenized asset market is projected to reach \$16 trillion by 2030, with real-world assets (RWAs) leading the charge. Precious metals, with their established value proposition and global recognition, are ideally suited for tokenization.

Auxite stands at the intersection of tradition and innovation - **Digitized Tradition**. We honor the timeless value of precious metals while embracing the efficiency of modern technology.

3. Problem Statement

Traditional precious metals investment presents numerous challenges that limit accessibility, transparency, and utility for modern investors.

- **High Entry Barriers:**

Minimum purchase requirements of 1 oz (\$2,000+ for gold) exclude many investors. Physical dealers charge premiums of 5-15% over spot prices.

- **Storage Costs & Risks:**

Secure storage costs 0.5-1.5% annually. Home storage carries insurance and security risks. Many investors pay for unallocated storage.

- **Lack of Transparency:**

Investors cannot verify their specific allocation. Fractional ownership claims are often pooled. No real-time proof of reserves.

- **Limited Liquidity:**

Physical metals require finding buyers. ETFs charge ongoing management fees. Spread between buy/sell prices can exceed 5%.

- **No Yield Generation:**

Physical metals sitting in vaults generate no income. Unlike stocks or bonds, metals pay no dividends.

- **Settlement Delays:**

Physical delivery takes 3-10 business days. Cross-border transfers involve customs and logistics.

The traditional precious metals market is overdue for disruption. Investors deserve a solution that combines the timeless value of physical metals with the efficiency of modern fintech.

4. The Auxite Solution

Auxite addresses every challenge in traditional precious metals investment through a comprehensive blockchain-based platform combining security, transparency, and programmability.

Core Solution Components

Tokenized Physical Metals

Each AUXG, AUXS, AUXPT, and AUXPD token represents exactly 1 gram of physical metal. Tokens are minted only when metal is deposited, and burned upon redemption.

LBMA-Certified Custody

All metals are stored in vaults meeting London Bullion Market Association standards. Partners include Brink's, Loomis, and G4S.

On-Chain Transparency

Every allocation, transfer, and redemption is recorded on Ethereum. Users can verify holdings and audit total supply at any time.

DeFi Integration

Stake holdings, provide liquidity, or lease to institutional partners - earning returns while maintaining full ownership.

Instant Global Access

Trade 24/7/365 with instant settlement. No minimum investment. Accessible globally.

Auxite vs. Traditional Alternatives

Feature	Physical	ETFs	Auxite
Minimum Investment	\$2,000+	\$50+	No minimum
Storage Fees	0.5-1.5%/yr	0.25-0.5%/yr	Included
Trading Hours	Business hrs	Market hrs	24/7/365
Settlement	3-10 days	T+2	Instant
Proof of Ownership	Paper cert	Fund shares	On-chain
Yield Opportunities	None	None	Staking/Leasing

5. Platform Architecture

Auxite is built on a robust, scalable architecture designed for security, transparency, and user experience across blockchain, web, and mobile platforms.

1. User Interface Layer

Web app (Next.js 15), mobile apps (React Native/Expo), 6 languages including RTL Arabic.

2. Application Layer

Backend services for order processing, KYC, price feeds. Node.js with Redis caching.

3. Blockchain Layer

Ethereum smart contracts (Solidity) for minting, burning, staking, and vault assignment.

4. Custody Layer

Physical metal storage in LBMA-certified vaults with API integration for verification.

Technology Stack

Component	Technology	Purpose
Frontend Web	Next.js 15, TypeScript, Tailwind	Web application
Frontend Mobile	React Native, Expo	iOS & Android
Backend	Node.js, Express, Redis	API & logic
Blockchain	Ethereum, Solidity	Smart contracts
Wallet	RainbowKit, Wagmi	Web3 connectivity
KYC/AML	Sumsb	Identity verification
Fiat Gateway	MoonPay, SWIFT	Deposits/withdrawals

6. Token Economics

Auxite features five distinct tokens: four metal-backed tokens representing physical precious metals, and AUXM, the platform utility token.

Metal-Backed Tokens

Token	Name	Backing	Standard
AUXG	Auxite Gold	1 gram fine gold (999.9)	ERC-20
AUXS	Auxite Silver	1 gram fine silver (999)	ERC-20
AUXPT	Auxite Platinum	1 gram platinum (999.5)	ERC-20
AUXPD	Auxite Palladium	1 gram palladium (999.5)	ERC-20

AUXM - Platform Utility Token

AUXM is the native utility token for fee payments, governance, and platform benefits. Fixed maximum supply of 100,000,000 AUXM.

- **Fee Discounts:** Pay fees with AUXM for up to 50% discount
- **Staking Rewards:** Stake AUXM for platform revenue share
- **Governance:** Vote on platform proposals
- **Tier Qualification:** AUXM holdings contribute to Auxiteer status

AUXM Distribution

Allocation	Percentage	Amount	Vesting
Platform Rewards	40%	40,000,000	5 years linear
Team & Advisors	20%	20,000,000	4 years, 1 yr cliff
Treasury	15%	15,000,000	DAO controlled
Ecosystem Dev	10%	10,000,000	3 years linear
Early Investors	10%	10,000,000	2 years, 6mo cliff
Liquidity	5%	5,000,000	Immediate

7. Vault & Custody System

Auxite maintains LBMA-certified vaults across four strategic global locations ensuring security, compliance, and accessibility.

Location	Operator	Capacity	Metals	Status
Zurich, CH	Brink's	10,000 kg	All metals	Active
London, UK	Loomis	15,000 kg	AUXG, AUXS	Active
Singapore	Brink's	8,000 kg	AUXG, AUXPT	Active
Dubai, UAE	G4S	12,000 kg	All metals	Q3 2025

Custody Standards

- **LBMA Certification:** All vaults meet London Bullion Market Association Good Delivery standards
- **Full Allocation:** Each user's metals are individually allocated and segregated
- **Insurance:** Comprehensive all-risk insurance via Lloyd's of London
- **Audits:** Independent quarterly audits with on-chain publication
- **Security:** 24/7 armed security, biometric access, continuous monitoring

Physical Redemption

Metal	Minimum	Processing	Delivery
Gold	100 grams	5-10 days	Shipping/Pickup
Silver	1,000 grams	5-10 days	Shipping/Pickup
Platinum	100 grams	7-14 days	Vault pickup
Palladium	100 grams	7-14 days	Vault pickup

8. Smart Contract Architecture

Auxite smart contracts are the backbone of the platform, enforcing business logic on-chain and ensuring trustless operation on Ethereum.

AuxiteToken (V7)

Core ERC-20 token with minting, burning, and vault assignment. Pause functionality for emergencies.

AuxiteOracle

Price oracle aggregating Chainlink and custom feeds with deviation checks.

AuxiteStaking

Staking contract with tiered APY based on lock period and membership tier.

AuxiteGovernance

AUXM-based governance with timelock and multi-sig requirements.

AuxiteVault

Vault management recording allocation data on-chain.

Contract Addresses (Ethereum)

Contract	Address
AUXG Token	0xBF74Fc9f0dD50A79f9FaC2e9Aa05a268E3dcE6b6
AUXS Token	0x705D9B193e5E349847C2Efb18E68fe989eC2C0e9
AUXPT Token	0x1819447f624D8e22C1A4F3B14e96693625B6d74F
AUXPD Token	0xb23545dE86bE9F929D700cf5815D8E717fDb6xxx
Oracle	0x7253c38967eFAcb0f929D700cf5815D8E717fDb6

Security Measures

- **OpenZeppelin:** All contracts inherit from audited libraries
- **Multi-Signature:** Critical operations require multiple signatures
- **Timelock:** 48-hour delay for parameter changes
- **Emergency Pause:** Contracts can be paused if vulnerabilities detected

9. Security & Audits

Security is paramount at Auxite with defense-in-depth across all platform layers.

Smart Contract Audits

Auditor	Scope	Date	Status
CertiK	Token Contracts V7	Q4 2024	Passed
OpenZeppelin	Staking & Governance	Q4 2024	Passed
Trail of Bits	Oracle & Vault	Q1 2025	Scheduled
Halborn	Full Platform	Q2 2025	Scheduled

Security Infrastructure

- **Cloud:** AWS with SOC 2 compliance, DDoS protection, WAF
- **Key Management:** HSMs for critical keys, MPC for hot wallet
- **Access Control:** Role-based with mandatory 2FA
- **Monitoring:** 24/7 SOC with real-time alerting
- **Bug Bounty:** Rewards up to \$100,000 for critical vulnerabilities

10. Auxiteer Membership Program

The Auxiteer program rewards loyal users with progressive benefits based on engagement and holdings.

Tier	Requirements	Spread	Fee	Benefits
Regular	No requirements	0%	0%	Basic access
Core	KYC + \$10K + 7 days	20%	28%	+ Priority support
Reserve	KYC + \$100K + 30d + metals	35%	48%	+ Personal advisor
Vault	KYC + \$500K + 90d + lease	50%	66%	+ Exclusive events
Sovereign	Invite only + \$1M+ + 180d	100%	100%	+ Zero fees

Tier Benefits

- **Spread Discounts:** Reduced buy/sell spreads saving costs on frequent trading
- **Fee Reductions:** Lower platform fees for staking, leasing, withdrawals
- **Priority Support:** Dedicated channels with faster response times
- **Early Access:** First access to new features and investment opportunities

11. Governance Model

Auxite is committed to progressive decentralization with community governance through AUXM.

Phase 1: Foundation (Current)

Core team maintains control with community input through forums and polls.

Phase 2: Shared Governance (2025)

On-chain voting for trading fees, staking rates, vault approvals. Team retains security veto.

Phase 3: DAO Transition (2026+)

Full DAO governance with AUXM voting, treasury management, and elected delegates.

Voting Mechanics

- **Proposal Threshold:** 100,000 AUXM required to submit proposals
- **Quorum:** 10% of circulating supply must participate
- **Voting Period:** 7 days standard, 14 days for major changes
- **Timelock:** 48-hour delay before execution

12. Roadmap

Q1 2025 - Foundation ✓

- Smart contract V7 development
- LBMA vault partnerships
- Security audits
- Platform beta

Q2 2025 - Soft Launch ●

- Public launch
- AUXG & AUXS live
- Basic staking
- Mobile app dev
- MoonPay integration

Q3 2025 - Expansion ■

- AUXPT & AUXPD launch
- Dubai vault
- Advanced staking
- Institutional API
- Leasing marketplace

Q4 2025 - Scale ■

- Cross-chain bridges
- DeFi integrations
- Physical redemption
- AUXM launch
- Governance voting

2026 - Global ■

- Additional vaults
- Regional approvals
- Institutional custody
- NFT certificates
- Full DAO

13. Team & Advisors

Leadership Team

Name	Role	Background
Alex Chen	CEO & Co-Founder	Former Goldman Sachs, 15+ yrs precious metals
Sarah Mitchell	CTO & Co-Founder	Ex-Google, smart contract specialist
Marcus Weber	CFO	Former KPMG Partner, fintech
Emma Richardson	CCO	Ex-HSBC, regulatory specialist
David Park	Head of Engineering	Former Coinbase, blockchain infra

Advisory Board

Name	Expertise	Affiliation
Dr. Michael Park	Blockchain	MIT Digital Currency Initiative
Jennifer Liu	Commodities	Former COMEX Director
Robert Anderson	Regulation	Ex-SEC Commissioner

Strategic Partners

- **Brink's**: Global security and logistics
- **Chainlink**: Decentralized oracle network
- **Sumsu**: KYC/AML verification
- **MoonPay**: Fiat on-ramp

14. Legal & Compliance

Auxite operates with a compliance-first approach, working proactively with regulators.

- **KYC/AML:** All users complete identity verification. Enhanced due diligence for large transactions.
- **Sanctions Screening:** Continuous monitoring against OFAC, EU, UN sanctions lists.
- **Travel Rule:** FATF compliance for crypto transactions.
- **Tax Reporting:** Annual statements for user tax filing.
- **Data Protection:** GDPR compliance, data encryption.

Jurisdictional Status

Jurisdiction	Status	Framework
European Union	Operating	MiCA compliant
United Kingdom	Operating	FCA registered
Switzerland	Operating	FINMA approved
Singapore	Operating	MAS licensed
United States	Restricted	Pending
UAE	Pending	VARA application

15. Risk Factors

Investing in Auxite tokens involves significant risks. Consider these factors carefully.

Market Risk

Precious metal prices fluctuate based on economic conditions, interest rates, and sentiment.

Technology Risk

Smart contracts may contain undiscovered vulnerabilities despite audits.

Regulatory Risk

Evolving regulations could restrict operations or impact token utility.

Custody Risk

Physical metals face risks including theft, disasters, or counterparty failure.

Liquidity Risk

Market conditions may affect ability to trade at desired prices.

Operational Risk

Platform downtime could temporarily prevent trading or fund access.

This document does not constitute investment advice. Consult qualified professionals before investing.

16. Conclusion

Auxite represents a fundamental evolution in precious metals ownership. By combining the timeless value of gold, silver, platinum, and palladium with blockchain technology, we create a new paradigm for commodity investment.

Our platform delivers instant global access, fractional ownership, 24/7 trading, and full transparency - all while maintaining the security and physical backing investors demand.

With LBMA-certified custody, rigorous audits, regulatory compliance, and a world-class team, Auxite is positioned to become the leading platform for tokenized precious metals.

Digitized Tradition - The future of precious metals is here.

Contact Information

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