

AUREUM Whitepaper – 2025 Edition

Official Whitepaper – Version 1.0

AUREUM - The Next Standard of Digital Money

Created by: An Unknown Architect

Symbol: AUR

Total Supply: 100,000,000 AUR

"AUREUM is more than a cryptocurrency — it is the evolution of money itself. Combining the store-of-value power of Bitcoin, the speed and accessibility of modern payment networks, and the unstoppable freedom of decentralized finance, AUREUM aims to become the global digital standard for value transfer."

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1. Abstract

The rise of Bitcoin in 2009 marked the beginning of a new financial era — one where money could exist beyond governments, central banks, and traditional institutions. Yet, more than a decade later, the world still faces significant limitations: slow transaction times, high fees, scalability challenges, and a lack of universal adoption.

AUREUM (AUR) is the next evolution of decentralized money. Designed to inherit the financial sovereignty of Bitcoin while surpassing its technical constraints, AUREUM is a global digital currency built for speed, security, and scalability. With a fixed supply of 100 million coins, a Proof of Stake consensus mechanism, and a halving-inspired emission schedule, AUREUM offers a sustainable and deflationary economic model that rewards long-term holders and validators alike.

More than a payment system, AUREUM is a statement: money must be borderless, permissionless, and free. It is engineered to become not

only a global medium of exchange but also a trusted store of value — a digital gold for the 21st century and beyond.

2. Vision & Mission

🬍 Vision – A New Era of Money

For centuries, money has been controlled by central authorities — minted, manipulated, and restricted by governments, banks, and financial institutions. Bitcoin challenged this paradigm by introducing a new model: decentralized, borderless, and censorship-resistant money. Yet, the evolution of money cannot stop there.

AUREUM envisions a world where money is not only *decentralized* but also **efficient, accessible,** and truly global. A future where anyone, anywhere, can send value as easily as sending a message — without waiting days, paying high fees, or trusting intermediaries. AUREUM is designed to become the universal digital currency: the **gold standard of the digital age**, combining the timeless principles of sound money with the power of modern blockchain innovation.

In this new era, money is not just a tool of exchange — it is a fundamental right. AUREUM aims to return that right to the people.

⊚ Mission – Freedom, Value, and Utility in Every Transaction

The mission of AUREUM is simple yet ambitious:

- **Empower global payments:** Enable instant, low-cost, peer-to-peer transactions across borders, without banks or centralized intermediaries.
- Preserve long-term value: Provide a scarce, deflationary asset that serves as a reliable store of value a "digital gold" that protects wealth against inflation and manipulation.
- **Protect financial freedom:** Guarantee privacy, security, and censorship-resistance at the protocol level, ensuring that no government or institution can control how money moves.

• # Bridge traditional and digital finance: Offer tools, APIs, and integrations that make AUREUM usable in real-world commerce, digital platforms, and future Web3 applications.

AUREUM's mission is not just to build another cryptocurrency — it's to redefine what money means in the 21st century.

3. Problem & Solution

■ The Problem – The Limitations of Existing Money

The invention of Bitcoin in 2009 was a revolutionary leap forward: for the first time in history, money could exist without banks or governments. But more than a decade later, both traditional finance **and** first-generation cryptocurrencies still suffer from serious limitations that block their global adoption:

- 1. Slow Transactions: Bitcoin can handle only ~7 transactions per second, making it unsuitable for everyday payments on a global scale.
- 2. **\iiin High Fees:** Network congestion often leads to high transaction costs, limiting accessibility for small payments.
- 3. Inefficient Energy Use: Proof-of-Work mining consumes enormous energy, raising environmental and scalability concerns.
- 4. **Centralized Financial Gatekeepers:** Even in the crypto space, exchanges and payment processors often reintroduce centralization and censorship.
- 5. **Limited Real-World Utility:** Most cryptocurrencies remain speculative assets rather than functional currencies usable in real commerce.
- 6. **Volatility and Poor Monetary Policy:** Unpredictable emission models and inflationary mechanisms undermine confidence and usability as a stable store of value.

The result: Bitcoin remains a powerful store of value but struggles to function as a true **global payment system.** Other blockchains attempt to solve these issues but often sacrifice decentralization, security, or long-term value in the process.

The Solution – AUREUM: Digital Gold 2.0

AUREUM is designed from the ground up to overcome these limitations — combining the best of traditional money, Bitcoin's decentralization, and modern blockchain technology into one global system.

How AUREUM Solves the Problems:

- 1. **High-Speed Transactions:** AUREUM's optimized Proof-of-Stake consensus enables transaction finality in under 3 seconds making real-time payments possible for daily use.
- 2. **Low-Cost Transfers:** With near-zero transaction fees, AUREUM becomes accessible to anyone from microtransactions to global business settlements.
- 3. **Fenergy-Efficient Consensus:** Proof-of-Stake reduces energy consumption by over 99% compared to Proof-of-Work, enabling sustainability and scalability.
- 4. **True Decentralization:** Anyone can become a validator and participate in network governance, removing power from centralized entities.
- 5. **Real-World Utility:** Built-in payment APIs, merchant tools, and integration support make AUREUM practical for e-commerce, remittances, and enterprise solutions.
- 6. **Deflationary Economics:** A fixed supply of **100 million AUR** and a halving-inspired emission schedule ensure scarcity and long-term value preservation.

✓ In short, AUREUM takes the original dream of Bitcoin — borderless, censorship-resistant, peer-to-peer money — and evolves it into something **faster, fairer, and more useful** for the real world.

4. AUREUM Core Concept - "Money, Reinvented"

AUREUM is not just a cryptocurrency — it is a complete rethinking of what money should be in the 21st century. Built on the principles of **decentralization**, **scarcity**, **speed**, **and freedom**, AUREUM merges the timeless value of hard money with the efficiency and inclusivity of modern blockchain technology.

At its core, **AUREUM** is designed to fulfill three fundamental roles of money in a single, unified protocol:

- 1. **Medium of Exchange** Fast, borderless, peer-to-peer payments with near-zero fees.
- 2. Store of Value A deflationary asset with fixed supply and predictable scarcity.
- 3. **Instrument of Freedom** A censorship-resistant, permissionless network where no central entity can control how money moves.

Core Principles

1. Decentralized and Borderless:

AUREUM operates without central authorities, intermediaries, or geographic limitations. Anyone with an internet connection can send and receive value instantly, regardless of borders or banking systems.

2. Digital Scarcity:

With a fixed total supply of **100,000,000 AUR**, AUREUM is inherently deflationary. Its predictable issuance and halving-inspired emission schedule ensure that scarcity — the foundation of monetary value — is preserved forever.

3. Permissionless Participation:

Anyone, anywhere, can become part of the AUREUM ecosystem — as a user, validator, developer, or builder — without needing approval or permission.

4. Sustainable Security:

By utilizing a **Proof-of-Stake (PoS)** consensus mechanism, AUREUM achieves high throughput, fast finality, and robust security — all while being environmentally friendly and economically sustainable.

5. Built for the Real World:

Unlike many cryptocurrencies that remain purely speculative, AUREUM is built for utility. With developer-friendly APIs, merchant payment gateways, and wallet integrations, it's designed to become part of everyday life — from e-commerce to cross-border trade.

🔄 Evolution Beyond Bitcoin

Bitcoin proved that digital money could exist without a central bank. AUREUM goes further by proving that **money can evolve** — it can be faster, smarter, and more inclusive, without sacrificing the principles of decentralization and scarcity.

Bitcoin showed the world that money could be free.

• AUREUM shows the world that free money can also be **practical**, **scalable**, **and universal**.

5. Technology Overview - The Engine Behind AUREUM

The strength of a currency lies not only in its philosophy but in the technology that powers it. AUREUM is built on a modern, scalable, and energy-efficient blockchain architecture that solves the critical limitations of first-generation networks while preserving decentralization and security.

🔅 1. Consensus Mechanism – Proof of Stake (PoS)

At the heart of AUREUM lies a **Proof of Stake (PoS)** consensus mechanism — a modern alternative to Bitcoin's Proof of Work (PoW) that achieves consensus without requiring massive computational power.

How it works:

- Anyone holding AUR tokens can "stake" their coins to become a validator.
- Validators are randomly selected to propose and validate blocks based on the amount of AUR they stake.
- In return, they earn block rewards and transaction fees.
- Malicious actors risk losing their stake (slashing), ensuring honest participation.

Benefits of PoS:

- **Formula Speed:** Transaction finality in under 3 seconds.
- Y Efficiency: >99% less energy consumption than PoW.
- **m** Decentralization: Thousands of validators globally can participate.
- **Grant Security:** Economic penalties make attacks expensive and impractical.

🧱 2. Network Architecture – Lightweight, Scalable, Modular

AUREUM's blockchain is designed for performance and simplicity. Its modular architecture separates the core components into independent layers, ensuring high throughput and easy upgrades:

- Consensus Layer: Handles block production and validator agreement.
- **Execution Layer:** Processes transactions, updates the state, and executes smart payment logic.
- **Network Layer:** Uses a peer-to-peer protocol optimized for fast propagation and low latency.
- Application Layer: Provides APIs, wallet integration, and developer tools.

Result: AUREUM can scale to thousands of transactions per second without compromising decentralization or security.

🔐 3. Security Model – Trust Through Mathematics

Security is non-negotiable in a global financial network. AUREUM's security model is built on three pillars:

- 1. **Economic Security:** Attackers must control a majority of staked AUR to compromise the network a prohibitively expensive feat.
- 2. **Cryptographic Security:** Transactions and blocks are secured with state-of-the-art elliptic curve cryptography (Ed25519) and BLAKE3 hashing.
- 3. **Network Security:** Peer authentication, spam prevention, and mempool prioritization protect the network from Sybil, DDoS, and replay attacks.

Additionally, **slashing mechanisms** punish misbehavior, while **finality gadgets** ensure irreversible transactions within seconds.

4. Interoperability & Upgradability

AUREUM is designed with the future in mind. Its architecture supports:

- **& Cross-chain bridges:** For seamless value transfer between AUREUM and other major blockchains.
- **Upgradable modules:** Consensus parameters, transaction formats, and fee models can evolve through on-chain governance without forks.
- Layer-2 compatibility: Future scaling solutions (e.g., payment channels, zk-rollups) can be integrated natively.

🧰 5. Developer-Friendly Infrastructure

AUREUM provides a robust development environment to accelerate adoption:

- **Open APIs:** For wallet, merchant, and payment app integration.
- 💻 **SDKs:** For building dApps, payment gateways, and financial services.
- / Testnet: A public sandbox for developers to deploy and experiment safely.
- **Tooling:** Block explorers, CLI tools, and data indexers for analytics and monitoring.

✓ **In short:** AUREUM's technology is built to power a truly global payment system — secure like Bitcoin, scalable like Visa, and flexible like the Internet itself.

6. Tokenomics & Monetary Policy – Building Digital Scarcity

The economic model behind **AUREUM (AUR)** is designed to ensure **scarcity**, **sustainability**, **and long-term value growth**. Inspired by Bitcoin's fixed supply and halving model — yet optimized for modern PoS networks — AUREUM combines predictable issuance with strong incentives for validators, holders, and early adopters.

6 Total Supply: 100,000,000 AUR

- Fixed & Scarce: The total number of AUR coins will never exceed 100 million.
- **Deflationary:** With a capped supply and a burn mechanism on transaction fees, AUREUM becomes increasingly scarce over time.
- **No Pre-mining:** All coins are created through staking rewards, ensuring fair and decentralized distribution.

Initial Distribution (Genesis Allocation)

| Allocation | Percenta ge | Purpose |
|---|----------------|---|
| Staking Rewards (Community Emission) | 50% | Incentives for validators and network security over ~10 years |
| Ecosystem Growth & Grants | 20% | Developer incentives, dApp funding, partnerships |
| Strategic Partnerships & Treasury | 15% | Liquidity, market-making, institutional onboarding |
| Founding Contributors & Core Devs | 10% | Team incentives (4-year vesting, 1-year cliff) |
| Public Sale & Early Backers | 5% | Initial liquidity and ecosystem funding |

This distribution prioritizes decentralization, long-term sustainability, and network growth — with the majority of tokens earned through participation rather than centralized allocation.

Emission Model – Halving-Inspired Schedule

To replicate Bitcoin's scarcity effect while adapting to a Proof-of-Stake environment, AUREUM introduces a **halving-inspired emission model**:

- Initial Annual Inflation: ~6% (Year 1)
- Emission Reduction: Inflation decreases by ~50% every 4 years.
- Final Inflation Target: <1% by Year 10 (approaching zero thereafter)

This schedule creates a natural deflationary pressure on supply. As demand for AUR increases while new issuance slows, scarcity grows — driving long-term price appreciation.

🔥 Fee Burn Mechanism – Continuous Deflation

In addition to fixed supply and halving, AUREUM employs a fee burn mechanism:

- A portion of every transaction fee (50%–80%) is permanently burned.
- As network activity increases, the effective circulating supply decreases.
- This creates *negative issuance pressure*, accelerating scarcity over time.

Staking Incentives – Security Meets Yield

Validators and delegators earn rewards for securing the network through staking:

- **Annual Yield (Initial):** ~7–10%
- **Declines Over Time:** As emission decreases, staking yield gradually lowers encouraging early participation.

• Slashing: Validators acting maliciously or going offline risk losing a portion of their staked tokens.

This design creates a healthy balance between security, participation, and scarcity — rewarding those who contribute to network stability while preserving long-term value.

Summary: AUREUM's tokenomics are built to mirror the economics of gold and Bitcoin — *finite, scarce, and deflationary* — while introducing modern mechanisms like staking, fee burning, and governance participation to ensure sustainable growth and continuous adoption.

7. Use Cases & Global Utility – Real-World Value Beyond Speculation

The ultimate success of a digital currency depends not only on its technology or scarcity, but on its **utility** — its ability to solve real problems for real people and businesses. **AUREUM (AUR)** is designed to go far beyond speculation, offering practical, everyday use cases that make it *a living*, breathing part of the global financial system.

💱 1. Peer-to-Peer Payments – Fast, Borderless, Permissionless

At its core, AUREUM is designed to make money move as easily as information.

- **Global Reach:** Send money instantly across borders without banks, remittance fees, or delays.
- **Low-Cost Transactions:** Pay friends, family, or businesses with near-zero fees ideal for micropayments and remittances.
- **Gensorship-Resistant:** No government or intermediary can block or reverse a transaction.
- / Instant Settlement: Transactions finalize in seconds not days.
- 🔽 AUREUM turns global payments into a simple, everyday action as easy as sending a message.

🏪 2. Merchant Payments & E-Commerce

Businesses around the world lose billions every year to payment processors, chargebacks, and settlement delays. AUREUM eliminates these problems with a direct, peer-to-peer payment solution.

- Instant Settlement: No more waiting days for bank settlements.
- **Example 2** Lower Costs: Avoid credit card fees and intermediary charges.
- **Mo Chargebacks:** All transactions are final and irreversible.
- **Easy Integration:** APIs and payment gateways make AUREUM acceptance seamless for online stores, POS systems, and digital platforms.
- ✓ Merchants gain higher margins, faster cash flow, and access to a global customer base all without relying on traditional financial rails.

🌐 3. Cross-Border Remittances & Global Payroll

Traditional remittance services are expensive, slow, and heavily regulated. AUREUM makes global transfers fast, affordable, and borderless.

- **Near-Zero Fees:** Send \$100 or \$10,000 with the same minimal cost.
- Under 3-Second Settlement: Funds arrive almost instantly, regardless of geography.
- Ideal for Payroll: Companies can pay global employees or contractors without the friction of banks or intermediaries.
- $lue{V}$ AUREUM becomes the backbone of a new, borderless economy.
- 4. Store of Value Digital Gold for the 21st Century

AUREUM is not just a payment token — it's a **deflationary digital asset** with long-term value potential.

- Fixed Supply: 100 million AUR ensures scarcity.
- **Y** Halving Emission: Supply growth slows over time, mimicking gold-like scarcity.
- **Here Burning:** Reduces circulating supply as network usage increases.
- **Deflationary Demand:** As adoption grows, AUR becomes more valuable over time.

Investors, institutions, and individuals can hold AUR as a hedge against inflation, currency debasement, and financial censorship.

5. Financial Freedom & Sovereignty

More than anything, AUREUM represents **freedom** — the freedom to hold, move, and use money without permission.

- m No Central Authority: No one can freeze, block, or confiscate AUR.
- **Self-Custody:** Users have full control over their funds no bank accounts or intermediaries required.
- **Equal Access:** Anyone with an internet connection can join the network, regardless of nationality, income, or status.

✓ AUREUM is money owned by the people, for the people — a financial system that belongs to everyone.

with these use cases, AUREUM is more than just a cryptocurrency — it's a foundational layer for the next global financial system, bridging payments, commerce, investment, and freedom in one unified protocol.

8. Roadmap – 5-Year Development Plan

The path to becoming the global standard for digital money requires a clear, disciplined, and strategic roadmap. AUREUM's development plan is structured into **five key phases** — each building upon the previous one — to ensure sustainable growth, technical maturity, and global adoption.

Phase 1 – Foundation & Genesis (Year 1)

Goal: Build the Core Infrastructure

Key Objectives:

- V Finalize protocol design, consensus mechanism (PoS), and economic model.
- Launch **Testnet v1** to test network security, validator performance, and transaction throughput.
- Release developer documentation, SDKs, and API tools.
- V Deploy official AUREUM wallet (desktop & browser).
- V Begin building a global developer and validator community.
- Milestone: Establish a secure, stable, and efficient blockchain core the backbone of AUREUM.

Phase 2 – Mainnet Launch & Early Adoption (Year 2)

Goal: Transition from Testnet to Mainnet and kickstart ecosystem growth.

🔑 Key Objectives:

- Launch AUREUM Mainnet with validator onboarding and staking features.
- V Distribute AUR tokens via fair launch and community staking rewards.
- **V** Release **AUREUM Block Explorer** and network monitoring tools.
- Integrate cross-platform wallet support (iOS, Android, Web).

- W Begin strategic partnerships with exchanges, payment gateways, and crypto infrastructure providers.
- Milestone: AUREUM transitions from a concept to a live, operational global network.

🬍 Phase 3 – Ecosystem Expansion & Merchant Adoption (Year 3)

Goal: Make AUREUM usable for everyday payments and business adoption.

Key Objectives:

- V Launch AUREUM Pay, a merchant payment gateway for e-commerce and physical stores.
- V Develop AUREUM API Suite for businesses to integrate payments and payroll systems.
- V Onboard global payment processors, fintech companies, and remittance platforms.
- V Launch community grants program to fund dApps, tools, and third-party integrations.
- V Begin early adoption initiatives in emerging markets (Africa, MENA, Southeast Asia).

Milestone: AUREUM becomes a real-world currency used by merchants, businesses, and users worldwide.

Phase 4 – Institutional Adoption & Global Partnerships (Year 4)

Goal: Position AUREUM as a serious financial asset and payment layer.

🏦 Key Objectives:

- Collaborate with institutional custodians, payment networks, and financial institutions.
- Value Launch AUREUM Bridge for seamless cross-chain transfers and DeFi integration.
- V Expand exchange listings to Tier-1 platforms and enable fiat on-ramps/off-ramps.

- V Introduce Layer-2 scaling solutions for enterprise-grade transaction volume.
- V Establish partnerships with governments, NGOs, and large payment processors.

Milestone: AUREUM gains recognition as a secure, compliant, and scalable global payment infrastructure.

Phase 5 – Global Adoption & Monetary Standardization (Year 5)

Goal: Position AUREUM as the next global monetary standard.

Key Objectives:

- V Integration into mainstream financial applications, neobanks, and payment systems.
- Widespread use in cross-border trade, payroll, and e-commerce.
- Valunch institutional staking and custodial solutions.
- Propose AUREUM as a **reserve digital asset** for fintech platforms and sovereign digital initiatives.
- 🔽 Establish a global AUREUM DAO for long-term governance and protocol evolution.

Milestone: AUREUM evolves from a cryptocurrency into a global standard for digital money, trusted by individuals, businesses, and nations alike.

Summary: Over five years, AUREUM will evolve from an experimental protocol into a global financial network — one that powers payments, protects wealth, and redefines how money moves across the planet.

9. Governance & Decentralization - Power to the People

AUREUM is built on the foundational principle that **money should not be controlled by any single entity — not a government, not a corporation, not even its original creators.** Instead, it must evolve through the collective intelligence and consensus of the community that uses and secures it.

Governance is not an afterthought in AUREUM — it is part of the protocol's DNA.

Through a carefully designed, on-chain governance model, AUREUM ensures that **every major decision is made transparently, democratically, and securely.**

1. Decentralized Governance Model

The AUREUM network is governed directly by its participants — validators, delegators, and token holders — through a **Proof-of-Stake voting system**.

All key protocol upgrades, parameter changes, and treasury allocations are decided by **on-chain proposals** and **community votes.**

Governance Flow:

- 1. **Proposal Creation:** Any user holding a minimum threshold of AUR can submit a governance proposal.
- 2. Review & Discussion: Proposals enter a public discussion phase, allowing the community to debate and refine ideas.
- 3. **Voting Phase:** Validators and stakers vote on proposals. Voting power is proportional to the amount of AUR staked.
- 4. **Execution:** Proposals that reach quorum and majority approval are automatically executed by the network.
- ✓ This model ensures that **no central authority** including the founding team can unilaterally change the protocol or its monetary policy.

2. Governance Scope

On-chain governance covers a wide range of critical decisions, including:

- 🌣 Consensus Parameters: Block time, gas limits, validator set size.
- **Seconomic Policy:** Inflation rate adjustments, staking reward models, fee burn percentage.
- Trotocol Upgrades: Feature rollouts, security patches, and consensus improvements.

- **S** Treasury Allocations: Funding for ecosystem development, grants, marketing, and community initiatives.
- **Cross-Chain Integrations:** Decisions regarding interoperability and external network connections.

S 3. Community-Driven Treasury

AUREUM features an **on-chain treasury** — a pool of funds collected from a portion of transaction fees and staking rewards — managed entirely by governance proposals.

This treasury funds ecosystem growth, developer grants, dApp incubation, marketing initiatives, and long-term R&D.

Result: AUREUM becomes a self-sustaining, community-driven ecosystem where users, not companies, decide its future.

3 4. Validator Decentralization & Security

Validator participation is open to anyone who meets the minimum staking requirements, ensuring a **broad, global validator set** that resists censorship and collusion.

- **No Permission Required:** Anyone can run a validator node.
- Slashing Mechanisms: Dishonest or malicious validators are penalized.
- **Validator Diversity:** Geographic and jurisdictional distribution reduces systemic risk.

🥘 5. DAO Evolution – From Network to Nation

In its final stage, AUREUM will evolve into a fully decentralized **DAO** (**Decentralized Autonomous Organization**) — a self-governing, self-funding, and self-improving protocol.

The DAO will coordinate future upgrades, manage reserves, and guide the network's strategic direction — all without human intermediaries.

The vision: AUREUM is not just a currency — it is a living, evolving digital economy governed by its users.

10. Conclusion & Call to Action – Join the Future of Money

For centuries, money has been shaped and controlled by central powers — governments, banks, and institutions that decide who can use it, how it moves, and what it's worth. Bitcoin broke that monopoly and gave the world a taste of financial freedom. But the story of money did not end there — it's only just beginning.

AUREUM (AUR) is the next chapter in that story.

It is the evolution of money: borderless, decentralized, censorship-resistant, and built for a truly global economy. It's more than a cryptocurrency — it's an entire financial system designed to restore control to the people and unlock a new era of prosperity, inclusion, and sovereignty.

With its deflationary monetary model, ultra-fast and low-cost transactions, and **community-driven governance**, AUREUM is poised to become the **standard for digital money** — a currency that powers global trade, protects wealth, and fuels the next wave of financial innovation.

M Our mission is bold but simple:

- To make sending money as easy as sending a message.
- To preserve the value of wealth in a digital, inflation-prone world.
- To build a financial system that no one controls and everyone can trust.

Now, the next phase of monetary evolution begins — and it starts with you.

Whether you are a developer, an investor, a merchant, or simply someone who believes in financial freedom, AUREUM invites you to join the revolution. Become a validator. Contribute code. Build tools. Accept AUR payments. Or simply hold it as the digital gold of the future.

💡 Together, we can reshape the global financial system — and redefine the meaning of money for generations to come.

🌟 AUREUM – The Next Standard of Digital Money

Created by: An Unknown Architect

Symbol: AUR

Total Supply: 100,000,000

Mission: Freedom. Value. Utility.