

AUREX

Official Whitepaper

Version 1.0 | 2025

ARX Token — Holder-Only Prediction Market Intelligence

This document is for informational purposes only. Nothing contained herein constitutes financial, legal, or investment advice. Participation in the presale involves significant risk. Please read the full legal disclaimer in Section 10.

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1. Executive Summary

AUREX is the gateway to the future of prediction market trading. AUREX empowers token holders with exclusive, holder-only tools that deliver a genuine and measurable trading edge on virtually any real-world event outcome — from elections and sports results to crypto prices, economic indicators, climate events, and global news — on a truly global scale.

Only **ARX** token holders gain access to AUREX's powerful suite of tools: one-click copy bots that automatically mirror the exact positions of top traders, real-time notifications for insider trading signals and fresh smart-money wallet activity, and instant arbitrage scanners that surface and execute risk-free opportunities across multiple platforms and chains before they disappear.

Key Figures at a Glance

Token Name	AUREX Token
Ticker Symbol	ARX
Blockchain	Ethereum Mainnet (ERC-20)
Total Supply	1,000,000,000 (1 Billion) — Fixed Forever
Presale Allocation	300,000,000 tokens (30%)
Starting Price	\$0.01 per ARX (Seed Round)
Launch Price	\$0.50 per ARX (DEX listing)
Max Raise	~\$15,000,000 USD (if presale sells out)
Accepted Currencies	ETH, USDT, USDC

2. The Problem & Our Solution

2.1 The Problem

Prediction markets represent one of the fastest-growing segments in decentralised finance, projected to exceed \$73 billion by 2031. Yet retail participants consistently lose to sophisticated actors who possess three structural advantages:

Information Asymmetry

Institutional traders and on-chain whales act on signals that never reach the public. By the time a retail trader learns of a significant position, the alpha is already captured.

Execution Speed

Arbitrage windows on prediction markets frequently close within seconds. Without automated multi-chain tooling, these risk-free opportunities are invisible to the average holder.

Position Intelligence

Copy trading exists on centralised exchanges but not in decentralised prediction markets. There is no mechanism for retail participants to automatically mirror top performers.

2.2 Our Solution

AUREX solves this by making the tools of sophisticated prediction market participants accessible exclusively to ARX token holders.

- One-Click Copy Bots — mirror exact positions of top-ranked traders in real time.
- Smart Money Alerts — real-time notifications on insider signals and wallet activity.
- Arbitrage Scanner & Executor — multi-chain engine detecting pricing discrepancies across protocols.
- 24/7 Liquidity Intelligence — unified dashboard with real-time liquidity mapping and outcome probability feeds powered by decentralised oracles.

2.3 Market Opportunity

Platforms such as Polymarket have demonstrated clear product-market fit, yet none have solved the information asymmetry problem for their user base. AUREX targets this gap directly — the holder-only model ensures value created by the platform accrues entirely to ARX holders, creating a compounding incentive loop.

3. Token Overview

3.1 Token Details

Name	AUREX Token
Symbol	ARX
Standard	ERC-20 (Ethereum Mainnet)
Decimals	18
Total Supply	1,000,000,000 (fixed, no inflation ever)
Contract	Published at TGE — verifiable on Etherscan
Burnable	Yes — unsold presale tokens permanently burned at presale close
Transfer Lock	Active at deploy — lifted on launch day (one-way, irreversible)

3.2 Token Utility

The **ARX** token is the single access credential to the AUREX ecosystem. Holding ARX is not optional — it is the requirement to use any AUREX tool.

- Platform Access — only wallets holding a qualifying ARX balance can activate the copy bot, smart money alert system, and arbitrage scanner.
- Tiered Tooling — larger ARX balances unlock higher-frequency signal feeds and priority arbitrage execution.
- Governance — ARX holders vote on platform upgrades, new market integrations, fee structures, and future product direction.
- Fee Discounts — platform fees are discounted for ARX holders, deepest for top-tier.
- Staking Rewards — protocol revenue distributed pro-rata to staked ARX holders.

3.3 Why a Fixed Supply?

The total supply of 1,000,000,000 ARX is minted once at deployment and can never be increased. No mint function exists on the deployed contract. This eliminates inflation risk permanently and makes total circulating supply publicly verifiable from block one on Etherscan.

4. Tokenomics & Supply Distribution

4.1 Allocation Breakdown

Allocation	Tokens	%	Destination	Lock
Presale	300,000,000	30%	Presale contract	Sold; unsold burned
Liquidity	200,000,000	20%	LiquidityLock contract	365-day on-chain lock
Team (Locked)	100,000,000	10%	TeamVesting contract	180-day cliff
Team (Unlocked)	100,000,000	10%	Team EOA wallet	No lock
Treasury	250,000,000	25%	Treasury EOA	Multisig recommended
Marketing	50,000,000	5%	Marketing EOA	No lock
TOTAL	1,000,000,000	100%		

4.2 Allocation Details

Presale — 30% (300,000,000 ARX)

Held in the Presale smart contract. Base tokens transferred directly to buyers at point of purchase — no buyer-side vesting. Stage-specific bonuses are recorded and claimable after admin releases each stage's bonus pool. Any tokens remaining unsold when the presale ends are permanently burned.

Liquidity — 20% (200,000,000 ARX)

Locked in the LiquidityLock smart contract for a minimum of 365 days from TGE. Designated for providing trading liquidity on Uniswap V3 on Ethereum Mainnet. The lock can only be extended — never shortened or removed early.

Team Locked — 10% (100,000,000 ARX)

Held in the TeamVesting smart contract under a strict 6-month (180-day) cliff. Zero tokens accessible before cliff timestamp expires. Enforced entirely in code — no admin override exists.

Team Unlocked — 10% (100,000,000 ARX)

Sent directly to the team wallet at deployment for day-to-day platform operations, exchange listing requirements, and market-making arrangements.

Treasury — 25% (250,000,000 ARX)

AUREX project treasury. Used for ecosystem development, grants, future funding rounds, protocol incentives, and emergency reserves. Gnosis Safe multisig strongly recommended.

Marketing — 5% (50,000,000 ARX)

Allocated for community growth, influencer campaigns, airdrop programmes, and exchange listing incentives.

4.3 On-Chain Verifiability

All six allocations are minted in a single constructor transaction at deployment. Every address and amount is immediately visible on Etherscan. The deployer wallet holds zero ARX after deployment.

5. Presale Structure

5.1 Overview

The AUREX presale runs in five stages, each with its own token price and bonus percentage. Price escalates from **\$0.01** per ARX to the final launch price of **\$0.50** per ARX — 50x from first entry to launch. All stages are open to the public with no whitelist or KYC required. The admin manually advances stages.

5.2 Stage Schedule

Stage	Name	Price	Bonus	Cap	Min Buy	Max Buy
0	Seed Round	\$0.01	30%	70M ARX	\$20	\$100,000
1	Round 1	\$0.05	20%	60M ARX	\$20	\$200,000
2	Round 2	\$0.10	10%	50M ARX	\$20	\$15,000
3	Round 3	\$0.15	10%	50M ARX	\$20	\$150,000
4	Round 4	\$0.20	5%	40M ARX	\$20	\$100,000

5.3 Token Bonus System

Base tokens are transferred to your wallet instantly at purchase. **Bonus tokens** are recorded on-chain at the same time — claimable after the admin releases that stage's bonus pool. Bonuses never expire.

Example — Seed Round at \$0.01:

You invest	\$1,000
Base ARX received	100,000 ARX — instantly to your wallet
Bonus ARX recorded	30,000 ARX — claimable on release
Total at full claim	130,000 ARX
Value at \$0.50 launch	\$65,000 USD

5.4 Transfer Lock

ARX tokens are non-transferable between wallets from deploy until launch day. The Presale, LiquidityLock, and TeamVesting contracts are exempt so the presale functions normally. `enableTransfers()` is one-way and irreversible.

5.5 Unsold Token Burn

When the presale ends, `endPresale()` permanently burns all remaining unsold tokens from the Presale contract. Pending (unclaimed) bonus tokens are preserved — only truly unsold tokens are burned. This reduces total circulating supply.

6. Use of Funds

Funds raised in the presale are allocated as follows:

Category	% of Raise	Usage
Product Development	40%	Engineering, infrastructure, oracle integrations, bot development, audits
Liquidity Provision	25%	Initial DEX liquidity paired with the 200M liquidity token allocation
Marketing & Growth	20%	Community building, KOL campaigns, PR, exchange listing fees
Operations	10%	Legal, compliance, team salaries, entity structure
Reserve	5%	Emergency fund, unexpected costs, strategic opportunities

6.1 DEX Listing

After the presale concludes, AUREX will provide deep liquidity on Uniswap V3 (Ethereum Mainnet) at the final presale price of **\$0.50 per ARX**. The 200,000,000 ARX liquidity allocation combined with raised ETH/USDT/USDC will form the initial trading pool. On listing day, `enableTransfers()` is called to open all ARX transfers globally.

7. Technology & Smart Contracts

7.1 Architecture Overview

The AUREX presale system uses four smart contracts deployed on Ethereum Mainnet:

`PresaleToken.sol` -> ERC-20 ARX token — mints and distributes 1B tokens at deploy

`Presale.sol` -> Multi-stage sale logic (ETH / USDT / USDC)

`TeamVesting.sol` -> 180-day cliff for locked team allocation

`LiquidityLock.sol` -> 365-day lock for DEX liquidity tokens

7.2 PresaleToken.sol

- Standard ERC-20 with burn capability (EIP-20)
- Full supply minted in constructor — no additional mint function exists
- ERC20Permit (EIP-2612) for gasless approvals
- Transfer lock: all transfers blocked at deploy except for exempt contracts
- Lifted permanently on launch day via `enableTransfers()` — one-way, irreversible

7.3 Presale.sol

- Accepts ETH (Chainlink ETH/USD oracle), USDT, and USDC
- Transfer-based (not mint-based) — tokens sent from contract balance to buyers
- Multi-stage with manual advancement by admin
- All stages open to the public — no whitelist requirement
- Blacklist: admin can block specific wallets for compliance purposes
- Emergency pause via OpenZeppelin Pausable
- Unsold tokens burned permanently on `endPresale()`
- All payments forwarded to treasury wallets instantly — zero custody in contract

7.4 TeamVesting.sol

- Holds 10% team allocation under a 6-month (180-day) cliff — no admin override
- Full allocation claimable by beneficiary wallet after cliff expires
- Beneficiary address rotatable by owner (wallet rotation safety feature)

7.5 LiquidityLock.sol

- Holds 20% liquidity allocation under a 365-day minimum time lock
- Lock can only be extended, never shortened

7.6 Oracle Security

ETH pricing uses the Chainlink ETH/USD price feed — industry standard decentralised oracle. Includes: staleness check (reverts if price data older than 1 hour); round validation; non-negative check.

7.7 Security Measures

Security Measure	Implementation
Reentrancy protection	OpenZeppelin ReentrancyGuard on all state-changing functions
Integer overflow	Solidity 0.8.24 built-in checked arithmetic
Safe token transfers	OpenZeppelin SafeERC20
Emergency stop	Pausable — owner halts all purchases instantly
Access control	Ownable — all admin functions restricted to owner
Price oracle	Chainlink ETH/USD with staleness and round validation
Fund custody	All payments forwarded to treasury immediately — zero custody in presale
Transfer lock	Tokens locked at deploy; permanently unlocked on launch day only
Blacklist	Compliance-based wallet blocking for sanctioned addresses

7.8 Security Audit — PASSED

AUDIT STATUS PASSED — NO CRITICAL, HIGH, MEDIUM OR LOW ISSUES FOUND		
Finding Severity	Count	Result
Critical	0	No issues found
High	0	No issues found
Medium	0	No issues found
Low	0	No issues found
Info (advisory only)	4	Optional improvements — no security risk

The Aurex (ARX) smart contract system underwent a private manual security review covering all four Solidity contracts (Presale.sol, PresaleToken.sol, TeamVesting.sol, LiquidityLock.sol). The audit scope included reentrancy analysis, access control verification, integer arithmetic review, Chainlink oracle security, economic modelling of the bonus reserve and fund routing, and ERC-20 anti-pattern checks against the OWASP Smart Contract Top 10.

The codebase was found to demonstrate a professionally mature standard of development. OpenZeppelin battle-tested libraries are used throughout (ReentrancyGuard, Pausable, Ownable, SafeERC20). The Chainlink oracle integration includes price validity, round validation, and a 3,600-second staleness threshold — more thorough than the majority of presale contracts reviewed.

Key Security Strengths Noted by Auditor

- ReentrancyGuard on every external function — state updates precede all external calls
- Immutable core addresses (token, USDT, USDC, ethUsdFeed) — no post-deploy substitution possible
- Bonus reserve accounting: totalBonusPending correctly blocks admin from draining bonus pool
- Transfer lock exempts only protocol contracts (Presale, LiquidityLock, TeamVesting) — no insider EOA exemptions
- Irrevocable vesting and liquidity locks — cliffEnd and unlockTime cannot be shortened
- Comprehensive event emissions covering all critical state changes for off-chain monitoring
- Dual-treasury architecture with zero-address validation and mutual-exclusion checks

Informational Observations (Advisory Only — No Security Risk)

I-01	Consider Ownable2Step for two-step ownership transfers (prevents accidental key loss)
I-02	Add inline NatSpec comments clarifying ETH+USDT → treasury1, USDC → treasury2 routing
I-03	Add gas documentation to claimAllBonuses() noting expected max stage count
I-04	Add extcodesize check on ethUsdFeed constructor parameter for cleaner deploy-time error

The full audit report is publicly available at: aurex.io/audit | Report Date: March 2026 | Audit Type: Private Manual Security Review | Verdict: PASSED

8. Roadmap

Phase 1	Foundation	Q2 2026	COMPLETE
<ul style="list-style-type: none">• Smart contract development • Foundry test suite • Security audit • Website & presale UI launch • Seed Round — \$0.01/ARX			
Phase 2	Presale	Q3 2026	IN PROGRESS
<ul style="list-style-type: none">• Presale Rounds 1–4 • Community building • Strategic partnerships			
Phase 3	Launch	Q1 2027	UPCOMING
<ul style="list-style-type: none">• Unsold ARX burn • Uniswap V3 listing • enableTransfers() — ARX live • Bonus token claim portal			
Phase 4	Staking & Platform	Q1 2027	UPCOMING
<ul style="list-style-type: none">• Staking for rewards • Copy bot beta launch • Smart money alert system • Arbitrage scanner v1 • Tiered access system			
Phase 5	Scale	Q2–Q3 2027	UPCOMING
<ul style="list-style-type: none">• Arbitrage auto-executor • CEX listings • Cross-chain expansion • AUREX intelligence SDK			

9. Team

AUREX is built by a team of market practitioners with deep experience in prediction markets, DeFi infrastructure, and Web3 community growth.

Alex Carter Founder & CEO	10 years in prediction markets and DeFi infrastructure. Previously led product at a top-5 derivatives exchange.
Maya Osei CTO	Smart contract architect with 2+ audited protocols. Ex-core contributor to a major DeFi lending protocol.
Rayan Malik Head of Product	Built trading bots used by 200K+ users. Deep expertise in prediction market UX and on-chain tooling.
Zoe Andersen Head of Growth	Grew three Web3 communities from zero to 100K+. Led token launches generating over \$30M in combined raises.

Full team profiles, LinkedIn links, and third-party identity verification details will be published on the official AUREX website prior to the presale launch. The team is open to third-party doxxing verification upon community request.

10. Legal Disclaimer

Important — Please Read Carefully Before Participating

This whitepaper is provided for informational purposes only. It does not constitute an offer to sell, a solicitation to buy, or a recommendation of any security or financial instrument. Nothing here should be construed as investment advice.

No guarantees. The AUREX team makes no representations regarding the accuracy or completeness of information in this document. The project may be revised or cancelled at any time.

Risk of loss. Participation carries a substantial risk of total loss of capital. Token prices are highly volatile. You may lose all funds invested.

Not a security. ARX tokens are utility tokens providing access to AUREX platform features. They are not intended to constitute securities or regulated financial instruments.

Regulatory risk. It is your sole responsibility to ensure participation complies with all applicable laws of your jurisdiction. You are responsible for any tax obligations.

Restricted persons. The token sale is not available to residents of the USA, China, or any jurisdiction where token sales are prohibited. By participating, you confirm you are not a resident of any restricted jurisdiction.

No refunds. All token purchases are final and non-refundable under any circumstances.

Technical risk. Smart contracts may contain undiscovered bugs. Blockchain networks may experience downtime or technical failures. The team accepts no liability for such events.

Acknowledgement. By participating in the AUREX presale, you confirm: (i) you have read this whitepaper in full; (ii) you are legally permitted to participate; (iii) you are acquiring ARX tokens for their utility; and (iv) you accept all risks described herein.

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