

ATOSEN

Public Litepaper

The utility and governance token of the XeXina Human-AI Collaboration Intelligence Platform

ERC-20

Ethereum

ATS

v1.0 — 2026

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1. Executive Summary

ATOSEN (ATS) is the native digital currency of the AtoSenography ecosystem — a purpose-built ERC-20 utility token deployed on the Ethereum blockchain. It powers the economic architecture of XeXina, the world's first Human-AI Collaboration Intelligence Platform, while simultaneously serving the AtoHart art ecosystem and funding Arc On AI Studies — the global professional body governing the discipline of AtoSenography.

The token economy is designed as a closed loop: tokens are spent by enterprise clients to access platform services, a percentage of every transaction is permanently burned, and the total supply decreases as platform activity increases. This creates a direct mathematical relationship between commercial success and token value — the more XeXina grows, the scarcer and more valuable ATOSEN becomes.

Token Name	ATOSEN
Symbol	ATS
Standard	ERC-20
Blockchain	Ethereum Mainnet
Total Supply	100,000,000 ATS
Decimals	18
Contract (Proxy)	0x3E8202A41B8E7b4AF1DC9e06C9e2c692413D841F

Etherscan	etherscan.io/token/0x3E8202...D841F
Uniswap Pool	ETH/ATS 1% — V4 (Pool #197916)
Security Audits	Slither + Mythril (post-deployment)

2. The AtoSenography Ecosystem

2.1 Easberg Ltd — AtoSenography

Easberg Ltd (trading as AtoSenography) is a United Kingdom-based company founded by Christian E.N. Essoh, Chief AtoSenographer. The company represents over thirty years of self-funded research in human experience studies, knowledge acquisition, epistemic frameworks, and human-AI collaboration science. The founder's work has produced proprietary frameworks — most notably the Epistemic Gnoseological Meta-Reflexive Scoring Index (EG-MRSI) — that constitute the intellectual foundation of the entire ecosystem.

2.2 XeXina — The Core Platform

XeXina is a B2B SaaS cognitive measurement platform built on the principle of cognitive architecture mapping. It provides enterprise clients with a 28-dimensional cognitive measurement of human-AI collaboration capacity, generating detailed reports that enable organisations to optimise how their people work alongside artificial intelligence systems. XeXina's positioning within the regulatory landscape derives from its built-in alignment with EU AI Act Article 14, which mandates meaningful human oversight of high-risk AI systems.

2.3 AtoHart — The Philanthropic Arm

AtoHart is the philanthropic dimension of the AtoSenography ecosystem. The high-value art initiative creates archive notation systems that function as both artistic works and epistemic artefacts. AtoHart functions simultaneously as a revenue stream and as the philanthropic engine of Arc On AI Studies.

2.4 Arc On AI Studies

Arc On AI Studies is founded to provide professional standards and certification protocols for the Discipline of AtoSenography. It advances public understanding of human-experience research, supports the training and certification of AtoSenographers, and conducts applied research into human-AI cognitive complementarity.

3. Token Architecture

ATOSEN is built on the OpenZeppelin Contracts v5.x library — the most widely audited, institutionally trusted smart contract foundation in the blockchain industry. The contract incorporates six core features:

- **Mintable:** Controlled token creation via MINTER_ROLE, enforcing a hard ceiling of 100,000,000 ATS.
- **Burnable:** 2% of every platform transaction is permanently burned — creating deflationary pressure directly tied to platform growth.
- **Pausable:** On-chain circuit breaker providing emergency halt capability and on-chain proof of human oversight — satisfying EU AI Act Article 14.
- **Permit (EIP-2612):** Gasless token approvals via cryptographic signatures, eliminating blockchain complexity from enterprise client onboarding.
- **Votes:** Token holders may delegate voting power and participate in formal on-chain governance proposals.

■ **UUPS Upgradeability:** Contract logic is upgradeable via a mandatory 24-hour Timelock, with a planned roadmap toward full immutability at platform maturity.

Access Control Architecture

ATOSEN implements Role-Based Access Control (RBAC) — a separation of duties framework enforced mathematically by the smart contract. No single individual holds complete control over the token economy. The contract is governed by a 3-of-5 Gnosis Safe multisig at the DEFAULT_ADMIN_ROLE level.

4. Token Allocation

The total supply of ATOSEN is fixed at 100,000,000 tokens. The allocation reflects the operational priorities of the ecosystem — with the largest single allocation reserved for the XeXina platform economy.

Stakeholder Group	Allocation	Tokens	Primary Purpose
XeXina Platform Utility	35%	35,000,000	Platform economy, client rewards, billing
Founding Team	20%	20,000,000	Founder recognition — capital already deployed
Community & Growth	10%	10,000,000	Atosenographer training, enterprise acquisition
AtoHart Ecosystem	10%	10,000,000	Art economy, Arc On AI Studies, philanthropy
Advisory Board	10%	10,000,000	Collaborator justice allocation
Treasury Reserve	7%	7,000,000	Regulatory, strategic & emergency reserve
Seed Investors	8%	8,000,000	External capital — if and when raised
TOTAL	100%	100,000,000	

5. Economic Mechanics

5.1 The Closed-Loop Economy

The ATOSEN economy is designed as a closed loop: tokens enter circulation through the Utility Reserve, flow through the platform via client transactions, and exit circulation permanently through burning. Every cognitive measurement, subscription, and AtoHart provenance certification reduces the total supply of ATOSEN. Commercial activity is the direct engine of token scarcity.

5.2 Transaction Flow

A standard XeXina transaction executes as follows: the enterprise client signs a Permit authorisation — free and instant. The platform contract receives 100 ATS. 2 ATS are burned permanently. 98 ATS are recorded as platform revenue. The entire sequence executes in a single blockchain transaction.

5.3 Burn Mechanics

The initial burn rate is 2% of every ATOSEN transaction. This rate is subject to governance review. At 10,000 cognitive measurements per month, 20,000 ATS are burned. The supply curve is directly proportional to platform growth — making the token deflationary by design, not by artificial restriction.

At 1,000 measurements/month: 2,000 ATS burned. At 10,000 measurements/month: 20,000 ATS burned. At 100,000 measurements/month: 200,000 ATS burned.

6. Regulatory Framework

6.1 EU AI Act Article 14

The ATOSEN token architecture addresses EU AI Act Article 14 human oversight requirements at the infrastructure level — not through policy documentation, but through on-chain, mathematically verifiable mechanisms. The Pausable feature provides evidence that a human authority can halt the automated token economy at any moment. The Votes architecture provides evidence that a defined community of human stakeholders governs how the system evolves.

6.2 UK FCA

ATOSEN has been designed as a utility token in accordance with applicable UK financial services guidance. Easberg Ltd maintains ongoing legal review of its token operations..

6.3 AML Compliance

The ATOSEN smart contract implements on-chain AML controls through the COMPLIANCE_ROLE — assigned to a dedicated 2-of-3 Compliance Multisig, separate from all operational roles. This architecture ensures AML blocking decisions are independently authorised, fully auditable on-chain, and legally defensible under UK MLR 2017 and MiCA Article 83.

7. Deployment Roadmap

Phase	Timeline	Milestone
1 — Ethereum Mainnet	✓ Live	Token deployed, Uniswap V4 pool live, security audits complete
2 — Market Listings	Q2–Q3 2026	GeckoTerminal, CoinGecko, CoinMarketCap listings
3 — Layer 2 Expansion	6–12 Mo Post-Launch	Bridge to Arbitrum / Optimism for lower-cost enterprise transactions
4 — Multi-Chain	12–24 Mo	Chainlink CCIP cross-chain; full decentralised governance live
5 — Contract Maturity	24+ Mo	Governance vote to remove upgradeability — permanent immutability

8. Where to Find ATOSEN

Website	www.atosecond.com
Etherscan	etherscan.io/token/0x3E8202A41B8E7b4AF1DC9e06C9e2c692413D841F
GeckoTerminal	geckoterminal.com/eth/pools/0xdf32081c...
Uniswap	app.uniswap.org/explore/tokens/ethereum/0x3e8202...
Contract (Proxy)	0x3E8202A41B8E7b4AF1DC9e06C9e2c692413D841F
Contact	hello@atosecond.com

ATOSEN is the economic expression of three decades of original research into human cognition, artificial intelligence, and the frontier where the two meet. It is not a speculative instrument — it is the operational backbone of a platform built to solve one of the defining challenges of our era: how human intelligence and artificial intelligence learn to work together.

Christian E.N. Essoh | Chief Atosenographer | Founder & CEO | Easberg Ltd | March 2026

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