LEXON Whitepaper

The Value Language of the AI Era

Project Name: LEXON
Token: LXN
Protocol Positioning: AI Economic Value Protocol
Whitepaper Version: V1.0

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1. Abstract

Artificial intelligence is evolving from conventional software tools into a new form of digital productivity capable of executing tasks, invoking models, using data, consuming computational resources, and producing digital outputs.

As AI systems increasingly perform work that was traditionally carried out by humans, a fundamental question emerges:

How can AI work be recorded, verified, measured, and ultimately converted into settleable digital value?

Existing AI infrastructure primarily addresses model capabilities, computational resources, and application services, while blockchain infrastructure primarily addresses digital assets, identity, transactions, and value transfer.

A critical layer remains missing:

an open protocol capable of describing, verifying, measuring, and settling the value generated by AI work.

LEXON is proposed to address this gap.

LEXON is a value protocol designed for the emerging AI economy. Through AI Work Proof, digital contribution measurement, node reputation, task verification, and open economic mechanisms, LEXON explores a new network connecting AI agents, models, data, compute, and digital value.

The core protocol model is:

Task → Work → Proof → Value → Settlement

Under this model, an AI task is not merely an API request. It can become a verifiable record of digital work.

LEXON is not intended to be a single AI application. Its objective is to establish a value layer for an emerging AI economy.

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2. Problem Definition

2.1 AI as a Participant in the Digital Economy

Next-generation AI systems are increasingly capable of:

- Understanding natural-language tasks
- Decomposing complex objectives
- Calling external tools
- Accessing databases
- Invoking other AI models
- Consuming computational resources
- Generating text, code, images, and data
- Performing analysis and decision support
- Executing continuous workflows on behalf of users

As AI agents become increasingly autonomous, AI systems may evolve from software tools into participants in digital economic activity.

The emerging digital economy may include:

- Human users
- AI agents
- Model providers
- Data providers
- Compute nodes
- Software services
- Autonomous agents
- Decentralized infrastructure

These participants require new mechanisms for identity, tasks, value measurement, and settlement.

2.2 Conventional Service Pricing Does Not Fully Describe AI Work

Complex AI tasks may simultaneously involve:

- Task complexity
- Execution time
- Model calls
- Computational resources
- Data access
- Multi-agent collaboration
- Output quality
- Verification costs

Therefore:

> **One request does not necessarily represent the same amount or value of work.**

LEXON seeks to establish a verifiable work-based framework that connects actual AI activity with digital value.

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3. Protocol Objectives

LEXON is designed around five core capabilities.

1. Record

Record the creation, execution, and completion of AI tasks.

2. Prove

Provide evidence that an agent, node, or service actually performed specified work.

3. Measure

Measure digital contribution based on workload, complexity, resource consumption, quality, and verification.

4. Settle

Convert verified work into settleable digital value.

5. Incentivize

Use the LXN economic mechanism to incentivize nodes, developers, service providers, and ecosystem participants.

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4. Core Protocol Model

The core LEXON model is:

Task → Work → Proof → Value → Settlement

Task

A user, enterprise, or AI agent creates a task.

Work

An AI agent, model, compute node, or service provider performs the task.

Proof

The network records and verifies the execution process and result.

Value

The protocol calculates the value of verified contribution.

Settlement

Digital assets are settled according to protocol rules.

This model forms the core value cycle of LEXON.

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5. AI Work Proof

5.1 AI Work Proof

The core technical primitive of LEXON is:

AI Work Proof

AI Work Proof describes whether an AI task was executed, who executed it, which resources were used, what result was produced, and whether the result passed verification.

A Work Proof may contain:

- Task ID
- Work ID
- Agent ID
- Node ID
- Model information
- Data sources
- API call records
- Compute resource records
- Execution timestamps
- Work-result summaries
- Verification results
- Quality metrics
- User confirmation
- Data integrity proofs
- Digital signatures

The protocol may represent a Work Proof as:

WorkProof = {Task, Agent, Resource, Result, Verification, Timestamp}

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6. On-Chain and Off-Chain Architecture

LEXON adopts a hybrid on-chain and off-chain architecture.

6.1 On-Chain

The network may record:

- Task IDs
- Work IDs
- Agent identities
- Node identities
- Data hashes
- Work Proofs
- Verification states
- Contribution values
- Settlement states
- Reputation data

6.2 Off-Chain

The following information may remain off-chain:

- Raw task data
- Model inputs and outputs
- Large computational results
- Enterprise data
- Private data
- Large media files
- High-volume intermediate results

6.3 Data Integrity

Off-chain information may be connected to on-chain proofs through:

- Hashes
- Merkle Trees
- Digital signatures
- Encrypted storage
- Access controls
- Zero-knowledge proofs
- Verifiable computation

The chain stores proofs; off-chain systems store data.

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7. Contribution Measurement

LEXON does not use a simple model in which every request receives a fixed reward.

The baseline contribution model is:

Contribution Value = Workload × Complexity Coefficient × Resource Coefficient × Quality Coefficient × Verification Coefficient

Where:

Workload
Represents the scale of the completed task.

Complexity Coefficient
Represents computational, reasoning, execution, and collaboration complexity.

Resource Coefficient
Represents model, compute, data, and other resource consumption.

Quality Coefficient
Represents the accuracy, completeness, and effectiveness of the result.

Verification Coefficient
Represents the confidence established through verification.

The baseline reward model is:

Reward = Verified Contribution Value × Network Incentive Coefficient

Specific parameters may evolve based on network performance and governance.

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8. Task Verification and Node Reputation

Because AI outputs are probabilistic, LEXON is designed around multiple verification levels.

8.1 Verification Mechanisms

Depending on task value and risk, the network may use:

- Single-node verification
- Multi-node verification
- Cross-validation
- Repeated computation
- User confirmation
- Risk-tiered verification

Higher-value tasks may require stronger verification.

8.2 Node Reputation

Node reputation may consider:

- Task completion rate
- Verification pass rate
- Work quality
- Response speed
- Network stability
- User feedback
- Abnormal behavior
- Dispute history
- Historical performance

Reputation may be used for task allocation, verification weighting, risk management, and incentive calculation.

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9. Network Security and Anti-Cheating

LEXON is designed with multiple mechanisms to reduce technical attacks and economic manipulation.

Identity Mechanisms

Provide verifiable identities for agents, nodes, and services.

Random Verification

Randomly select tasks for additional verification.

Multi-Node Verification

Reduce the possibility of fabricated results by a single participant.

Anomaly Detection

Identify abnormal execution speeds, repeated outputs, unusual task patterns, and abnormal contribution.

Delayed Settlement

High-risk tasks may be settled after additional verification.

Risk Deposits

High-value or high-risk nodes may be subject to deposit mechanisms.

Penalties

Confirmed malicious behavior may result in reduced reputation, restricted task eligibility, or protocol-defined economic penalties.

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10. The AI Economic Ecosystem

LEXON is designed around an open economic network composed of **AI agents, models, data, compute, and digital value**.

10.1 AI Agent Economy

AI agents may:

- Receive tasks
- Execute tasks
- Invoke models
- Access data
- Consume compute
- Delegate work to other agents
- Receive digital settlement

10.2 AI-to-AI Economy

AI agents may conduct machine-to-machine economic activity, including:

- Service purchasing
- Task delegation
- Model invocation
- Data exchange
- Compute procurement
- Automated payment

10.3 AI Resource Markets

The ecosystem may develop:

AI Agent Marketplace
A marketplace for AI agent services.

AI Compute Marketplace
A marketplace for GPUs, AI accelerators, and computational resources.

AI Data Marketplace
A marketplace for data services supporting AI tasks.

AI Service Marketplace
A marketplace for models, software, automated workflows, and other AI services.

10.4 Enterprise and Specialized Applications

The protocol may support:

- Enterprise AI
- Scientific computing
- Automated workflows
- AI content production
- AI data processing
- AI model services
- Multi-agent collaboration

This creates an application path from foundational resources to AI agents and ultimately to digital value settlement.

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11. Protocol Architecture

LEXON adopts a six-layer architecture.

Layer 1 — Identity Layer

Responsible for:

- Agent Identity
- Node Identity
- Service Identity
- User Identity

Layer 2 — Task Layer

Responsible for:

- Task Creation
- Task Routing
- Task Assignment
- Task State

Layer 3 — Capability Layer

Describes:

- Models
- Compute
- Data
- Software services
- Agent capabilities

Layer 4 — Proof Layer

Responsible for:

- Work Proof
- Result Proof
- Verification
- Reputation

Layer 5 — Value Layer

Responsible for:

- Contribution
- Pricing
- Reward
- Settlement
- LXN

Layer 6 — Application Layer

Serving:

- AI Agents
- Enterprise AI
- AI Marketplaces
- Compute Marketplaces
- Data Marketplaces
- AI Applications

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12. Founding Organization and Institutional Framework

LEXON plans to establish a long-term organizational structure consisting of a protocol development organization, technology research organization, research institute, developer network, node network, and ecosystem alliance.

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13. LEXON Labs

LEXON Labs is the planned core technology research and development organization of the LEXON ecosystem.

Its primary areas include:

- AI Work Proof

- Agent infrastructure
- Task verification networks
- Contribution measurement
- Verifiable AI computation
- AI economic protocols

AI Work Proof

Research methods for transforming AI tasks into verifiable digital work proofs.

AI Agent Infrastructure

Research agent identity, task discovery, execution, permissions, reputation, and autonomous collaboration.

Verifiable AI Computation

Research computational proofs, model execution verification, data integrity, trusted execution environments, and zero-knowledge technologies.

AI Economic Protocols

Research infrastructure that allows agents to autonomously purchase compute, invoke models, access data, pay for services, delegate tasks, and conduct machine-to-machine economic activity.

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14. LEXON Research Institute

LEXON Research Institute is planned as the long-term research organization of the LEXON ecosystem.

Its research areas include:

- AI economics
- Digital productivity
- Agent economies
- AI work valuation
- Machine-to-machine payments
- Cryptoeconomics
- AI data value
- AI identity and reputation
- AI governance
- AI economic security
- Decentralized AI infrastructure

Research may be developed into:

- Research reports
- Technical papers
- Protocol improvement proposals
- Open standards

- Technical specifications

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15. Strategic and Ecosystem Institutional Framework

As the LEXON network develops, LEXON Foundation plans to build a global ecosystem network.

The ecosystem may include:

Core Protocol Organizations

Responsible for protocol development, standards, security, and technical direction.

AI Ecosystem Organizations

Organizations working with AI models, agents, data, compute, and applications.

Blockchain Infrastructure Organizations

Organizations working with blockchains, cross-chain communication, oracles, decentralized storage, identity, and verifiable computation.

Security and Audit Organizations

Organizations providing smart-contract, protocol, and economic-model security services.

Research and Academic Organizations

Organizations researching AI economics, cryptoeconomics, agent economies, and digital value.

Ecosystem Investment and Incubation Organizations

Organizations supporting AI agents, compute networks, data networks, model services, and AI-native applications.

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16. Technology Ecosystem

LEXON follows an open, composable, and cross-ecosystem development approach.

The protocol will continuously study established technical standards across open blockchain and AI ecosystems and develop compatibility interfaces where appropriate.

Relevant technical ecosystems may include:

- Ethereum
- IPFS
- Filecoin
- Chainlink
- Other open blockchain and AI infrastructure ecosystems

These names describe public technology ecosystems and areas of compatibility research and do not imply investment, sponsorship, endorsement, or formal partnership.

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17. Global Organizational Architecture

LEXON plans to develop the following organizational structure:

LEXON Foundation

Protocol Development, Ecosystem Governance, and Long-Term Strategy

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LEXON Labs

Protocol Engineering and AI Infrastructure Development

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LEXON Research Institute

AI Economics and Cryptoeconomic Research

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LEXON Developer Network

Global Developers and Open-Source Contributors

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LEXON Node Network

AI Compute, Verification, and Service Nodes

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LEXON Ecosystem Alliance

AI, Blockchain, Data, Compute, and Application Ecosystem

Through coordination among these organizations and networks, LEXON aims to build an open protocol ecosystem for the global AI economy.

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18. LXN Token Mechanism

18.1 Core Parameters

Parameter	Design
Token	LXN
Project	LEXON
Total Supply	1,000,000,000 LXN
Initial Supply	1,000,000,000 LXN
Maximum Supply	1,000,000,000 LXN
Initial Minting Design	0 additional issuance
TGE Initial Circulation	390,000,000 LXN
TGE Circulation	39%

LEXON adopts a fixed-supply model. AI node incentives and ecosystem incentives are allocated from the existing 1 billion token supply rather than relying on unlimited issuance.

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19. LXN Utility

LXN serves as the core value medium within the LEXON protocol.

Network Payments

Payment for protocol-related services.

AI Service Settlement

Settlement for AI tasks, agents, models, and related digital services.

Node Incentives

Incentives for compute nodes, verification nodes, and AI service nodes.

Ecosystem Incentives

Support for developers, applications, and ecosystem participants.

Protocol Governance

As governance matures, LXN may be used to participate in selected governance processes.

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20. Token Allocation

The total supply of LXN is:

1,000,000,000 LXN

Allocation	Amount	Share	Primary Purpose
Private Sale	300,000,000	30%	Early protocol and ecosystem development
AI Compute / Node Incentives	200,000,000	20%	AI compute, verification, and service nodes
Ecosystem	150,000,000	15%	Developers, applications, and ecosystem growth
Community	100,000,000	10%	Community and user ecosystem
Liquidity	100,000,000	10%	Market liquidity and ecosystem transactions
Team	75,000,000	7.5%	Long-term core team development
Treasury	50,000,000	5%	Long-term protocol development
Advisors / Strategic	25,000,000	2.5%	Advisors and strategic resources
Total	**1,000,000,000**	**100%**	

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21. Private Sale

21.1 Private Sale Allocation

300,000,000 LXN

Share of total supply:

30%

21.2 Private Sale Price

Current design:

$0.012 per LXN

21.3 Private Sale Target

300,000,000 × $0.012

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$3,600,000

21.4 Private Sale Release

The current design provides:

100% release at TGE

The full 300,000,000 LXN private-sale allocation enters circulation at TGE.

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22. TGE Initial Circulation

TGE initial circulation is defined as:

390,000,000 LXN

Equivalent to:

39% of total supply

Allocation	Total Allocation	TGE Release	TGE Release Rate
Private Sale	300,000,000	300,000,000	100%
Liquidity	100,000,000	50,000,000	50%
Ecosystem	150,000,000	10,000,000	6.67%
Community	100,000,000	10,000,000	10%
Treasury	50,000,000	20,000,000	40%
AI Node Incentives	200,000,000	0	0%
Team	75,000,000	0	0%
Advisors / Strategic	25,000,000	0	0%
Total	**1,000,000,000**	**390,000,000**	**39%**

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23. Post-TGE Release Structure

The remaining supply after TGE is:

610,000,000 LXN

Allocation	Total	TGE	Post-TGE Remaining
AI Node Incentives	200,000,000	0	200,000,000
Ecosystem	150,000,000	10,000,000	140,000,000
Community	100,000,000	10,000,000	90,000,000
Liquidity	100,000,000	50,000,000	50,000,000
Team	75,000,000	0	75,000,000
Treasury	50,000,000	20,000,000	30,000,000
Advisors / Strategic	25,000,000	0	25,000,000
Total	**700,000,000**	**90,000,000**	**610,000,000**

The 300,000,000 LXN private-sale allocation is fully released at TGE and therefore does not enter the post-TGE release pool.

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24. Team Allocation

Team allocation:

75,000,000 LXN

Share:

7.5% of total supply

The team allocation is intended for long-term contributors responsible for:

- Core protocol development
- AI infrastructure development
- Engineering and product development
- Global ecosystem expansion
- Protocol operations
- Security and technical maintenance
- Long-term strategic execution

The team allocation does not enter TGE circulation.

Current release structure:

12-month lock-up + 36-month linear vesting

The design aligns the long-term economic interests of core contributors with the continued development of the protocol.

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25. Advisors and Strategic Allocation

Advisors / Strategic allocation:

25,000,000 LXN

Share:

2.5% of total supply

This allocation is intended for long-term contributors and strategic resources, including:

- AI industry expertise
- Blockchain infrastructure expertise
- Technical experts
- Economic-model experts
- Global ecosystem resources
- Strategic partnerships
- Industry and market advisors

The allocation does not enter TGE circulation.

Current release structure:

6-month lock-up + 18-month linear vesting

Advisor and strategic allocations are intended to correspond to actual long-term contribution, engagement period, and strategic value.

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26. Ecosystem, Community, and Node Incentives

AI Node Incentives

Total:

200,000,000 LXN

Share:

20%

Used for:

- AI compute nodes
- Verification nodes
- AI service nodes
- Network infrastructure

Node incentives are released progressively based on verified network contribution rather than entering circulation entirely at TGE.

Ecosystem

Total:

150,000,000 LXN

TGE:

10,000,000 LXN

Post-TGE:

140,000,000 LXN

Used for:

- AI applications
- Developers
- Technical partnerships
- Ecosystem projects
- Infrastructure
- Ecosystem growth programs

Community

Total:

100,000,000 LXN

TGE:

10,000,000 LXN

Post-TGE:

90,000,000 LXN

Used for:

- Community development
- User ecosystem
- Developer activities
- Community contribution
- Ecosystem growth

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27. Liquidity Mechanism

Liquidity allocation:

100,000,000 LXN

TGE:

50,000,000 LXN

Post-TGE:

50,000,000 LXN

Liquidity tokens are intended to support protocol markets, ecosystem applications, and future market infrastructure.

Subsequent liquidity deployment may be adjusted according to protocol development and market requirements.

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28. Network Fees and Economic Cycle

The LEXON network may generate protocol fees from actual economic activity.

Current design:

Use	Share
AI / Compute / Service Providers	70%
Ecosystem and Treasury	20%
LXN Burn	10%

The economic cycle can be represented as:

User Demand → AI Task → Agent Execution → Work Proof → Verification → LXN Settlement → Node Incentive → Continued Network Service

This mechanism connects actual AI work with network economic activity.

Fee parameters may evolve according to network development and governance.

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29. LXN Burn Mechanism

LEXON may use a portion of network fees for LXN burns.

The purpose is to establish a protocol-level connection between network economic activity and token supply.

Under the current design:

10% of protocol fees may be allocated to LXN burns.

The actual burn ratio, frequency, and technical implementation may evolve according to network governance and economic conditions.

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30. Treasury

LEXON Treasury allocation:

50,000,000 LXN

Share:

5%

TGE:

20,000,000 LXN

Post-TGE:

30,000,000 LXN

The Treasury may support:

- Technical research and development
- Protocol security
- Developer incentives
- Ecosystem development
- Infrastructure
- Long-term operations
- Strategic development

Treasury management is designed around multisignature and permission-control mechanisms.

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31. Governance

LEXON governance is designed to evolve as the network matures.

Early Stage

The core development organization is responsible for:

- Technical upgrades
- Network security
- Protocol parameters
- Emergency vulnerability responses

Growth Stage

Participation may gradually expand to include:

- Nodes
- Developers
- Ecosystem projects
- Community participants
- LXN participants

Governance areas may include:

- Network fees
- Incentive parameters
- Node rules
- Treasury allocation
- Ecosystem rules
- Protocol upgrades

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32. Technical Development Roadmap

Phase 1 — Protocol Design

Develop:

- LEXON Protocol
- AI Work Proof
- Agent Identity
- Task Protocol
- Contribution Model
- Verification Model

Phase 2 — Test Network

Build:

- AI Agent nodes
- Verification nodes
- Task network
- Work Proof system
- Developer tools

Phase 3 — Main Network

Launch:

- Core protocol
- LXN
- AI task settlement
- Node incentives
- Initial ecosystem

Phase 4 — AI Application Ecosystem

Develop:

- AI Agent Marketplace
- AI Compute Marketplace
- AI Data Marketplace
- Enterprise AI
- AI-to-AI Economy

Phase 5 — AI Value Network

Progress toward an open AI economic infrastructure combining:

> **AI Agents + AI Models + AI Data + AI Compute + Blockchain + Digital Value**

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33. Risk and Security

33.1 Technical Risk

Smart contracts, consensus mechanisms, cross-chain infrastructure, data verification, and network infrastructure may contain technical risks.

LEXON plans to continuously improve protocol security through:

- Open-source development
- Test networks

- Security audits
- Vulnerability disclosure
- Access controls

33.2 AI Risk

AI systems may produce:

- Errors
- Hallucinations
- Bias
- Data contamination
- Model attacks

AI Work Proof verifies task execution and verification processes; it does not inherently establish that an AI result is correct.

33.3 Data Risk

AI tasks may involve sensitive information.

The protocol may use:

- Data minimization
- Encryption
- Access controls
- Off-chain storage
- Hash proofs
- Zero-knowledge technologies

33.4 Economic Risk

The protocol economy may be affected by:

- Network utilization
- Supply and demand
- Node costs
- Market liquidity
- Ecosystem development

33.5 Governance Risk

Protocol governance may face:

- Concentration of authority
- Governance attacks
- Proposal manipulation
- Protocol upgrade risks

Governance participation is therefore designed to expand progressively as the network develops.

34. Core Parameters

Parameter	Final Design
Project	LEXON
Token	LXN
Protocol Positioning	AI Economic Value Protocol
Total Supply	**1,000,000,000 LXN**
Maximum Supply	**1,000,000,000 LXN**
Private Sale	**300,000,000 / 30%**
Private Sale Price	**$0.012**
Private Sale Target	**$3,600,000**
Private Sale Release	**100% at TGE**
AI Node Incentives	**200,000,000 / 20%**
Ecosystem	**150,000,000 / 15%**
Community	**100,000,000 / 10%**
Liquidity	**100,000,000 / 10%**
Team	**75,000,000 / 7.5%**
Treasury	**50,000,000 / 5%**
Advisors / Strategic	**25,000,000 / 2.5%**
TGE Initial Circulation	**390,000,000 / 39%**
Team Vesting	**12-month lock-up + 36-month linear vesting**
Advisors / Strategic Vesting	**6-month lock-up + 18-month linear vesting**
AI Node TGE	**0**
Team TGE	**0**
Advisors / Strategic TGE	**0**
Core Technology	**AI Work Proof**
Core Model	**Task → Work → Proof → Value → Settlement**
Founding Organization	**LEXON Foundation**
Technology Organization	**LEXON Labs**
Research Organization	**LEXON Research Institute**

35. Long-Term Vision

Artificial intelligence is transforming the way digital production works.

The traditional model can be represented as:

Human → Tool → Production → Value

The emerging model may increasingly become:

Human → AI Agent → AI Agent → AI Agent → Production → Value

As AI systems become capable of performing increasingly complex digital work, a new economic infrastructure will need to answer:

Who performed the work?

Was the work actually completed?

What was the quality of the work?

How much computational resources were consumed?

What data was used?

How should value be allocated?

How can AI systems pay one another?

How can AI agents autonomously acquire compute?

How can one AI agent economically collaborate with another?

LEXON seeks to address one of the foundational layers of this emerging economy:

> **Making AI work recordable, provable, measurable, and ultimately settleable as digital value.**

LEXON is not simply an AI application.

It is not simply a blockchain token.

LEXON aims to establish:

The Value Layer of the AI Economy

Its core logic is:

Task → Work → Proof → Value → Settlement

When AI starts working,

Value Needs a New Language.

LEXON

The Value Language of the AI Era