



# WHITEPAPER

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Network: Predictor Network (Aventus AppChain)

Token: PRD (ERC-20 on Ethereum; bridged to Predictor Network; also the gas token)



# Predictor Network



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# GLOSSARY

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- **Glossary PRD:** ERC-20 token on Ethereum; bridged to Predictor Network; used for gas, staking, governance, oracle bonds, and network incentives.
- **Predictor Network:** Aventus AppChain powering non-custodial on-chain prediction markets, decentralized outcome resolution, staking and network security primitives.
- **Nodes:** Software licenses granting the right to run node software that supports the network via optimistic validation of a core validator set and participates in decentralized resolution (oracle consensus) where applicable.
- **Predictor.io:** A non-custodial application using Predictor Network for on-chain markets, settlement, and decentralized resolution; which supports stablecoin onboarding and bridging.



# EXECUTIVE SUMMARY

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**Predictor Network** is a Proof-of-Authority (PoA) network focused on fair, transparent, and verifiable outcome resolution for prediction markets. It is built as an Aventus appchain, aligning operational incentives for node operators and market participants, and is secured by a small core validator set (< 10 nodes) and a broader node network performing **optimistic validation** and decentralized oracle participation.

The native token, **PRD**, is an **ERC-20 on Ethereum** which is bridged to Predictor Network. PRD is the **gas token** on Predictor Network used for **staking, governance (Snapshot), oracle bonds, and node incentives**

Key network parameters:

- **Max supply:** 95,000,000,000 PRD
- **Max nodes:** 30,000
- **Node rewards reserve (target):** 55,000,000,000 PRD total, distributed via **daily emissions** with an **annual halving**

**The Predictor Ecosystem:** Predictor Network is partnering with [Predictor.io](https://predictor.io), a prediction market platform, for its staged inaugural global launches throughout 2026 and beyond. [Predictor.io](https://predictor.io) will launch showcasing its exclusive partnerships with TIME Magazine and Sports Illustrated, among others.



# WHAT WE'RE BUILDING

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## PREDICTOR NETWORK POWERS PREDICTION MARKET PLATFORMS

2.1

Predictor Network exists to enable a global, non-custodial prediction market stack with:

- on-chain market creation and trading
- on-chain settlement and payouts
- decentralized outcome resolution
- stablecoin-first user experience via Ethereum liquidity and bridging
- transaction gas fees supported exclusively by PRD

The Network's role is to provide a robust settlement layer for prediction markets by enforcing outcomes and distributing rewards according to protocol rules. Nodes execute consensus, process transactions, and enforce final outcomes submitted under the network's resolution flow.

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# WHY PREDICTOR NETWORK EXISTS

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Non-custodial prediction markets face hard, protocol-level problems that can't be solved with UX alone:

## OUTCOME RESOLUTION MUST SCALE WITHOUT CENTRAL TRUST

3.1

If outcomes are resolved centrally, credibility suffers. If outcomes are resolved naively, manipulation becomes profitable. Predictor Network introduces a decentralised consensus mechanism designed to make dishonest resolution **economically irrational**, even at scale. Consensus will initially start as a compliance-governed node owner vote on market outcomes, followed by the deployment of an Oracle infrastructure layer to fully automate the process.

## STABLECOIN LIQUIDITY LIVES ON ETHEREUM

3.2

Users want to trade at a stable value (USDC). Most liquidity and on/off ramps remain Ethereum-centric. Predictor Network is designed around **Ethereum-first assets** with secure bridging to enable on-chain markets without sacrificing liquidity access.

## INCENTIVES FOR SECURITY AND RESOLUTION NEED A CLEAR HOME

3.3

A credible oracle layer requires sustained incentives and accountability. Predictor Network pairs a finite node program producing daily rewards with an annual halving schedule to align infrastructure operators with correct outcomes and overall network health.



# SYSTEM OVERVIEW

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## CORE COMPONENTS

4.1

### **Ethereum Layer**

- PRD ERC-20 token contract (canonical supply)
- Liquidity pools (e.g., PRD/USDC)
- Bridge contracts / escrow for PRD and supported assets (e.g., USDC)

### **Predictor Network (Aventus AppChain)**

- Gas token: PRD
- Prediction market engine (fork of Zeitgeist pallets)
- Oracle consensus module for outcomes
- Staking module (used by both ecosystem applications for utility and security)
- Node registry + rewards distribution

### **Bridge**

- Bi-directional transfer of PRD (and any ERC20 tokens) between Ethereum and Predictor Network
- Security assumptions explicitly documented and progressively hardened over time (audits, monitoring, decentralization plan)

### **Platform Payments & Onboarding**

- MoonPay (or similar) integration to acquire **USDC on Ethereum**
- USDC bridging into Predictor Network for trading and liquidity while remaining entirely non-custodial



# NODES: WHAT THEY ARE AND WHAT THEY DO

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## NODE DEFINITION (LICENSE MODEL)

5.1

A **Node** is a **software license** granting the holder the right to run node software that provides compute resources to support network security via **optimistic validation** of a core validator set; and participates in decentralized oracle resolution (where applicable).

Nodes are designed to broaden participation without forcing every participant to run heavyweight validator infrastructure.

## OPTIMISTIC VALIDATION (CONCEPTUAL)

5.2

1. A **core set of validator nodes** produces blocks / state transitions and checkpoints into Ethereum.
2. The broader node network performs **optimistic validation**:
  - verifying correctness of state transitions
  - detecting inconsistencies or malicious behavior
  - contributing to network integrity and accountability

Exact challenge/fraud-proof mechanics and penalties are parameterized and may evolve through governance.

## ORACLE PARTICIPATION (DECENTRALIZED RESOLUTION)

5.3

While market resolution will initially be manually run through node owner vote on outcomes, the technology stack will be enhanced with oracle protocols that will handle resolutions automatically. Nodes can be selected to participate in outcome resolution using a committee-based process (see Section 7).

Participation is tied to:

- minimum uptime/availability
- staking/bonding requirements
- performance history (optional future enhancement)



## HOW A NODE EARNS

## 5.4

### 1. Daily Rewards

- 75,000,000 PRD per day in Year 1
- Shared equally across live nodes meeting uptime requirements
- Annual halving thereafter

Example:

30,000 nodes → 2,500 PRD/day per node

### 2. Gas Fees

- Primary long-term revenue, scaling with trading volume
- 1% of transaction value
- \$0.10 – \$0.50 per transaction (USD equivalent)
- Paid in PRD

#### Breakdown:

- \$0.05 burned
- Remaining distributed daily
- Requires ≥8 hours uptime in previous 24h

### 3. Prediction Market Winnings Share

- 0.1% – 0.25% of all on-chain winnings
- Set by governance



# NON-CUSTODIAL PREDICTION MARKETS (PROTOCOL LAYER)

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Predictor Network supports non-custodial prediction markets through a fork of Zeitgeist pallets, enabling:

- market creation (questions, outcomes, close times, resolution rules)
- trading and liquidity provisioning
- settlement and payouts based on resolved outcomes
- configurable fee policies per market type

## **Typical market lifecycle**

1. Market creation
2. Trading period
3. Market close
4. Oracle resolution
5. Settlement & payouts
6. Optional dispute window (market-configurable)



# ORACLE CONSENSUS: DECENTRALIZED OUTCOME RESOLUTION

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## DESIGN GOALS

7.1

- Make honest reporting the dominant strategy
- Reduce manipulation vectors (bribery, collusion)
- Provide recourse for contentious events via escalation

## COMMITTEE-BASED COMMIT-REVEAL (DEFAULT)

7.2

As the default mechanism (as drafted):

- **Committee selection:** eligible nodes are selected for a market
- **Commit:** nodes submit hashed commitments
- **Reveal:** nodes reveal votes; commitments verified
- **Consensus:** outcome determined by the defined rule set (e.g., node-weighted or stake-weighted)
- **Finalization:** outcome final after a defined window (and dispute process where enabled)

## DISPUTES AND ESCALATION

7.3

For disputed markets:

- larger committees may be selected
- higher bonds may be required
- penalties for provably bad behavior can increase
- repeated malicious behavior can result in slashing/exclusion (parameterized)

**IMPORTANT: This design and integration of the Oracle layer is subject to legal regulation frameworks for active prediction market territories. As such, the oracle layer deployment will be delayed as regulatory requirements and operational frameworks become clearer.**

Oracle mechanisms are economic systems, not metaphysical truth machines. The objective is that **dishonesty is consistently unprofitable.**



# TOKEN ECONOMICS (PRD) 8

## TOKEN PROPERTIES

- Token standard: ERC-20 on Ethereum
- Supply cap: 95,000,000,000 PRD (fixed maximum)
- Gas token: PRD is used to pay transaction fees on Predictor Network, with gas fees going to node operators
- Bridging: PRD is bridged between Ethereum and Predictor Network

8.1

## CORE USES OF PRD

- Gas fees on Predictor Network paid to node operators
- PRD is required for every on-chain action without exception; tied directly to network demand
- Governance voting power (Snapshot: 1 PRD = 1 vote)
- Node rewards and network incentives
- Oracle bonds and dispute bonds
- Treasury and ecosystem programs (subject to governance)

8.2

## TOKEN ALLOCATION

- Rewards & Swapping Pool (80%): 80,000,000,000 PRD
- Pre-burn (5%): 5,000,000,000 PRD
- Predictor Foundation, Liquidity & Listings (15%): 15,000,000,000 PRD
- Total: 95,000,000,000 PRD

8.3

## NODE REWARDS RESERVE AND EMISSIONS SCHEDULE

8.4

Target total allocation for node rewards: 55,000,000,000 PRD (total across all years), noting that there will be a shift from emissions to fee-based rewards over time. Additionally 0.1-0.25% of total winnings from prediction markets will be paid across all live node operators pro rata in PRD. With an annual halving schedule, the simplest structure is:



Year 1 emissions (E<sub>0</sub>): 27,375,000,000 PRD (Completed)

Year 2: 13,687,500,000 PRD (Current year)

Year 3: 6,843,750,000 PRD

... halving annually

This converges to ~55,000,000,000 PRD over time.

Year 1, which is already completed, daily emissions were: 75,000,000 PRD/day

If all 30,000 nodes are eligible, Year 1 implies:  $75,000,000 \div 30,000 = 2,500$  PRD per node per day (before any eligibility/performance adjustments)

### Illustrative emissions table

Year	Annual Emissions (PRD)	Approx. Daily Emissions (PRD/day)	Cumulative (PRD)
1 (Completed)	27,375,000,000	75,000,000	27,375,000,000
2 (Current Year)	13,687,500,000	37,500,000	41,062,500,000
3	6,843,750,000	18,750,000	47,906,250,000
4	3,421,875,000	9,375,000	51,328,125,000
5	1,710,937,500	4,687,500	53,039,062,500

Eligibility rules (uptime, oracle participation, minimum stake, etc.) can be applied by governance.



# GOVERNANCE

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- Governance is managed by **Snapshot**
- Voting power: **1 PRD = 1 vote**
- Governance scope includes:
  - protocol parameters (fees, oracle rules, dispute windows)
  - treasury policies
  - node eligibility and rewards policy
  - bridge policy and decentralization milestones
  - ecosystem grants and integrations

Execution is done via the Predictor Foundation, who reserve the right to veto if not in the best interest of the whole ecosystem (e.g. if it is illegal).



# SECURITY AND RELIABILITY COMMITMENTS

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Predictor Network treats security as product:

- independent audits
- staged rollouts with caps/limits for new modules
- monitoring and incident response playbooks
- transparency reporting (chain analytics, treasury reporting, governance reporting)

Predict the Future.  
Power the Outcome.



[WWW.PRDCTR.IO](http://WWW.PRDCTR.IO)