PRY TOKEN
WHITE PAPER

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1.Introduction & Industry Overview

1.1 Global Development of Prediction Markets and Derivatives

Prediction markets are financial instruments that leverage the collective intelligence of participants to forecast future events. At their core, they function as information aggregation mechanisms: participants place bets on event outcomes, and the resulting market prices serve as probabilistic estimates of future events. Historically, prediction markets have been widely applied in political elections, financial derivatives pricing, and sports event forecasting. Platforms like Iowa Electronic Markets, PredictIt, and Augur have demonstrated the significant value of prediction markets in aggregating information and predicting outcomes.

In recent years, derivatives markets have also grown rapidly alongside financial technology advancements. Derivatives such as futures, options, and swaps allow investors to hedge risks or speculate for profit. The global derivatives market has reached trillions of dollars in scale, yet traditional operations remain highly centralized, suffer from information asymmetry, and often lack sufficient liquidity. Particularly in the domains of political events, sports betting, and emerging markets, delays in information dissemination and opaque data severely constrain market efficiency.

The rise of blockchain technology offers new opportunities for prediction markets. Decentralized ledgers, smart contracts, and transparent mechanisms can effectively address trust issues inherent in traditional prediction markets. Moreover, token-based incentive systems can motivate broader market participation, enhancing liquidity and improving the accuracy of forecasts.

1.2 Pain Points of Centralized Markets

Lack of Transparency and High Trust Costs: Centralized platforms control all trading information, making it difficult for users to verify market integrity, which can lead to manipulation or biased data.

High Market Entry Barriers: Traditional financial institutions or derivative exchanges

impose strict qualifications, limiting participation by ordinary users.

Insufficient Liquidity and Low Capital Efficiency: Certain events or markets may lack enough participants, resulting in volatile prices and high trading costs.

Cross-Market and Cross-Border Limitations: Existing platforms are often restricted to specific countries or regions, preventing global trading and information aggregation.These limitations constrain the scale and development of prediction and derivatives markets and reduce the accuracy with which markets reflect true probabilities of events.

1.3 Blockchain Empowerment of Prediction Markets

Blockchain technology enables prediction markets to become decentralized, transparent, and verifiable. Key advantages include:

Smart Contract Automation: Event creation, betting, and settlement are executed automatically by smart contracts, eliminating manual intervention.

Transparent Transaction Data: All trading records are on-chain, allowing participants to monitor liquidity and price changes in real-time, boosting market trust.

Low-Barrier Global Participation: Any user with digital assets can participate, breaking geographical restrictions and increasing market activity.

Incentives and Liquidity Rewards: Tokens reward accurate predictors and liquidity providers, enhancing overall market efficiency.

The Prysmal (PRY) platform is designed based on these principles, aiming to create a global decentralized prediction market ecosystem. It provides investors and enthusiasts with a secure, efficient, and transparent trading experience while ensuring sustainable long-term growth through token economics and smart contract mechanisms.

2. Vision & Core Values

2.1 Platform Vision

The core vision of Prysmal (PRY) is to establish a decentralized, transparent, and secure global prediction market ecosystem. Traditional prediction and derivatives markets suffer from centralization, information asymmetry, and high entry barriers, limiting fairness and efficiency. Prysmal aims to overcome these challenges through blockchain and smart contract technologies, enabling all participants to trade safely and fairly, while fully leveraging the power of collective intelligence.

Our vision extends beyond financial derivatives to diverse scenarios, including sports events, political forecasting, social events, and emerging industry trends. Through token-based incentives and decentralized governance, Prysmal aspires to build a prediction market ecosystem where global participants collaboratively make decisions and share value, maximizing the utility of information.

2.2 Core Values

Decentralization: All trading, settlement, and risk management operations are executed automatically via smart contracts, preventing manual manipulation and ensuring market fairness.

Transparency: All market activities, transaction data, and historical event records are recorded on-chain, allowing participants to verify information at any time, enhancing trust.

Security: Multi-layer security strategies, including smart contract audits, on-chain risk controls, and asset protection mechanisms, safeguard user funds and transaction data.

Incentives and Participation: PRY tokens reward accurate predictors, liquidity providers, and community contributors, creating a healthy economic cycle and fostering market activity.

Global Accessibility and Inclusivity: Users with digital assets can participate regardless of location or identity, lowering entry barriers and promoting market diversity.

2.3 Long-Term Strategic Value

Prysmal aims to create a sustainable, long-term ecosystem with key strategic advantages:

Maximizing Collective Intelligence Value: Decentralized prediction markets aggregate global judgments on events, generating high-quality probabilistic insights.

Cross-Market Liquidity Integration: Connecting various markets and derivatives enhances overall liquidity and price discovery efficiency.

Fostering Innovative Financial Instruments: Provides the technical foundation and market validation for new derivatives, insurance contracts, and event-driven investment products.

Community-Driven Governance: Through DAO governance, market rules, risk parameters, and platform strategies are decided collectively by the community, ensuring sustainable ecosystem growth.

With this vision and core set of values, Prysmal aims to become a leading global decentralized prediction market platform, offering investors, analysts, and ordinary users an efficient, secure, and trustworthy trading experience.

3. Market Demand & Opportunities

3.1 Application Scenarios of Prediction Markets

Prediction markets serve as tools for information aggregation and probabilistic assessment. Globally, they have broad application scenarios. The Prysmal platform targets not only financial derivatives trading but also sports events, political forecasting, social events, and emerging industry trends.

Sports Events: Sports outcomes have historically been a highly active market. Decentralized platforms allow participants to make predictions based on historical performance, athlete statistics, and team strategies. Market prices dynamically reflect collective probability judgments.

Financial Futures and Derivatives: Stock indices, commodity futures, and crypto assets are typical derivative markets. Decentralized prediction markets eliminate geographic restrictions, allowing global investors to participate while reducing information asymmetry and transaction costs.

Political Events: Elections, policy decisions, and international negotiations carry high predictive value. Decentralized markets provide real-time probabilistic assessments for research institutions, media, and investors.

Social Events & Trend Forecasting: Emerging technologies, consumer trends, and market demands can be predicted through these markets, aiding businesses and investors in making informed strategic decisions.

3.2 Information Asymmetry Challenges

Centralized prediction markets suffer from severe information asymmetry: institutional participants often control critical data, leaving ordinary participants at a disadvantage. By utilizing blockchain technology, decentralized markets provide transparent, verifiable data accessible to all participants, improving the overall accuracy of predictions.

3.3 Liquidity Gap Analysis

Insufficient liquidity is a common issue in traditional prediction and smaller derivative markets. Limited participants result in volatile prices, high transaction costs, and low efficiency. Prysmal addresses these challenges through:

Token Incentives: PRY tokens reward active participants and liquidity providers, enhancing market activity.

Market Depth Management: Smart contracts automatically adjust bet limits and reward ratios, optimizing market depth and reducing friction.

Cross-Market Connectivity: Connecting multiple event and derivative markets allows capital and information flow, increasing overall liquidity.

3.4 Potential Market Opportunities

With the global development of fintech and blockchain adoption, prediction markets present significant growth potential:

Global Sports Market: Hundreds of billions of USD in sports betting and derivative trading annually provide a substantial opportunity for decentralized prediction markets.

Growth of Crypto Derivatives: Rapid expansion of crypto markets increases demand for derivatives, offering early users and high-frequency trading opportunities for

Prysmal.

Political and Social Event Forecasting Demand: Governments, media, and research institutions increasingly require real-time probability predictions. Decentralized markets offer a reliable data source.

Emerging Industry Trend Forecasting: Sectors such as AI, green energy, and blockchain applications are rapidly evolving, and businesses and investors need forward-looking predictive support.

By analyzing these market demands and opportunities, Prysmal can effectively aggregate global intelligence, provide diversified prediction markets, and build a sustainable ecosystem capable of long-term value creation.

4. Platform Architecture & Technical Design

4.1 Smart Contract-Driven Prediction Markets

The core of the Prysmal platform lies in smart contract technology, enabling automated trading, settlement, and risk management in prediction markets. Each market event is created through smart contracts that define betting rules, odds calculation methods, and settlement procedures. Smart contracts allow participants to

trade without relying on centralized intermediaries, reducing trust costs and ensuring fairness and transparency.

Key functions of smart contracts include:

Event Creation & Management: Each prediction event is codified with a detailed description, participation options, betting period, and settlement rules.

Betting & Settlement Mechanism: User bets are locked in the contract. Once the event concludes, the contract automatically distributes rewards to correct predictors according to pre-defined algorithms, while incorrect predictions result in lost funds.

Risk Control: Smart contracts include risk parameters such as maximum bet limits, odds caps, and margin requirements to mitigate extreme market volatility and potential losses.

4.2 Risk Hedging & Margin Management

Prysmal improves market stability and participant confidence through innovative risk hedging and margin mechanisms:

Margin Requirements: Users must lock a certain amount of PRY tokens as collateral when participating in high-risk events, ensuring sufficient funds for reward payouts.

Risk Pool Management: The platform establishes liquidity and risk pools. Smart contracts dynamically allocate funds based on market risk to hedge unexpected losses or extreme events.

Dynamic Adjustment Mechanism: Margin ratios and odds parameters are adjusted dynamically according to market activity and historical volatility, reducing the impact of extreme price fluctuations.

4.3 Cross-Chain Data Sources & Oracles

To ensure accuracy and reliability, Prysmal integrates cross-chain data sources with decentralized oracle technology:

Decentralized Oracles: Event outcomes from off-chain sources are transmitted to smart contracts, ensuring transparent and fair settlements.

Cross-Chain Data Integration: Aggregates various on-chain and off-chain data, including financial market data, sports results, news, and social events, improving prediction precision.

Data Verification Mechanism: Oracle nodes verify data authenticity through decentralized voting and cryptographic signatures, ensuring immutability.

4.4 Technical Architecture Advantages

Prysmal's technical design offers the following benefits:

Decentralization & Autonomy: All operations are executed automatically via smart contracts, minimizing human intervention.

High Security: Multi-layered security protects both funds and data, including contract audits, on-chain risk controls, and risk pool management.

High Scalability: Modular architecture supports expansion of event types, cross-chain integration, and rapid deployment of new derivatives.

Transparency & Traceability: On-chain data is fully transparent, allowing all trades and settlements to be audited, increasing market trust.

Through this technical architecture, Prysmal not only realizes the core functions of a decentralized prediction market but also provides a solid foundation for future cross-chain derivatives, global expansion, and complex event markets.

5. Core Functional Modules

5.1 Event-Driven Contract Creation

The foundation of Prysmal lies in event-driven smart contracts. Each market event generates an independent contract specifying the event description, participation options, betting period, settlement criteria, and reward distribution rules.

Event Types

Sports Events: Football, basketball, tennis, and league outcomes.

Financial Derivatives: Stock indices, commodity futures, crypto asset price movements.

Political & Social Events: Elections, policy announcements, social developments.

Emerging Industry Trends: Technological innovation, market demand shifts, company milestones.

Event Contract Lifecycle

Creation Stage: Event proposer submits information; preliminary verification and oracle validation occurs.

Betting Stage: Contract opens for bets; users lock PRY tokens according to predictions.

Settlement Stage: Event outcomes are determined via decentralized oracles; rewards are automatically distributed.

Closure & Archival: Contracts are finalized and permanently stored on-chain for traceability and analysis.

Event-driven contracts ensure full decentralization and transparency while providing scalability for complex derivatives.

5.2 Prediction Settlement & Reward Mechanism

The settlement and reward system is a core value driver, incentivizing accurate predictions and liquidity provision.

Settlement Algorithm

Smart contracts calculate the winning probabilities and reward allocations for each option.

Rewards are distributed proportionally based on bet size and odds.

Multi-stage settlements can be applied for complex events to enhance market dynamics.

Reward Distribution

PRY Token Rewards: Accurate predictors, liquidity providers, and community contributors are incentivized.

Fee Sharing: A portion of transaction fees goes into the reward pool for sustained incentives.

Community Incentives: Long-term active users and event creators receive additional rewards.

Risk Management

Caps on rewards and odds adjustments prevent extreme market volatility.

Reward and risk pools are linked for automated balancing via smart contracts.

5.3 Liquidity Incentives & Market Depth Management

Liquidity is essential for efficient market operation. Prysmal maintains market depth through layered incentives and smart algorithms:

Liquidity Provider Mechanism

Users can deposit funds into event pools, backing bets and receiving PRY rewards and fee shares.

Automated Market Adjustment

Smart contracts dynamically adjust odds and rewards based on bet distribution and demand.

Popular events receive higher reward multipliers to attract participants and increase market depth.

Less active events receive dynamic fees and incentives to maintain participation.

Cross-Market Connectivity

Capital and liquidity flow across multiple events and derivatives, enhancing efficiency.

Shared liquidity pools increase capital utilization and improve price discovery.

5.4 Data Analytics & Intelligent Prediction Support

Prysmal enhances user experience and market accuracy through analytics and predictive tools:

Market Trend Analysis

Visualization of bet distribution, odds movements, and prediction trends.

Historical data analysis informs users about behavioral patterns and probability shifts.

Intelligent Prediction Support

Combines on-chain and off-chain data to provide probability assessments and risk alerts.

Machine learning models analyze user behavior and past events to generate decision-support reports.

Community Data Sharing

All event data and analytics are permanently stored on-chain, enabling research,

strategy optimization, and new event design.

5.5 Security & Compliance Features

Functional modules also integrate security and regulatory considerations:

Multi-Layer Security

Smart contracts undergo rigorous audits to prevent vulnerabilities.

All transactions are encrypted, safeguarding user funds.

Compliance & Regulatory Support

Optional KYC/AML procedures for different regions ensure compliance.

Transparent audit logs allow regulators and the community to supervise platform activities.

Through these core modules, Prysmal provides comprehensive support from event creation, betting, settlement, rewards, liquidity management to analytics, delivering a secure and trustworthy prediction market experience.

6. PRY Token Utility & Economic Model

6.1 Token Supply & Distribution

PRY is the core token of the Prysmal platform, serving multiple roles including transaction settlement, reward distribution, collateralization in risk pools, and community governance. The total supply is 1 billion PRY, allocated as follows:

Founders & Advisors 15%

Long-term incentives for core team and advisors, released in stages

Ecosystem Development Fund 25%

Support platform upgrades, cross-chain integration, marketing, and partnerships

Community & User Rewards 30%

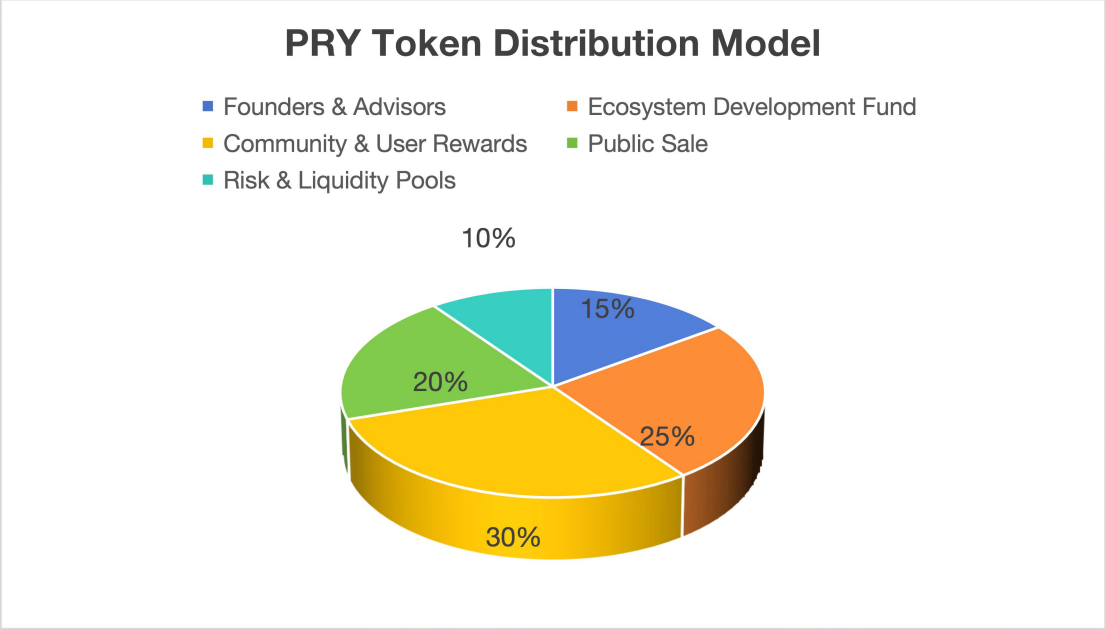
Incentivize accurate predictors, liquidity providers, event creators, and active users

Public Sale 20%

Enable global participation and token circulation

Risk & Liquidity Pools 10%

Hedge extreme events, margin management, and maintain market liquidity



6.2 Primary Token Utilities

Transaction Settlement

PRY serves as the settlement currency for all prediction market bets. Smart contracts automatically distribute rewards post-event.

Improves trading efficiency and reduces multi-token conversion costs.

Rewards & Incentives

PRY rewards accurate predictors, liquidity providers, and community contributors.

Incentive schemes include event outcome rewards, liquidity rewards, long-term contribution rewards, and governance proposal rewards.

Risk Pool & Margin Collateral

Users lock PRY as collateral for high-risk events.

Risk pools use PRY for fund allocation to hedge extreme market events.

Fees & Economic Circulation

Part of transaction fees are collected in PRY and allocated to reward pools and burning mechanisms.

Creates a closed-loop economic cycle, enhancing long-term token value.

6.3 Incentive & Economic Model

The PRY economic model aims to encourage participation, maintain liquidity, stabilize markets, and drive value growth:

Participation Incentives

Accurate predictor rewards: Distributed based on bet accuracy and stake size, promoting engagement and prediction quality.

Liquidity provider rewards: Deposit funds in event or risk pools to earn rewards and fee shares.

Community contribution rewards: Incentivizes event creators, content contributors, and governance participants.

Burn Mechanism

A portion of platform fees is periodically burned to reduce supply and increase scarcity.

Certain rewards and activities may include token burn clauses for dynamic supply adjustment.

Long-Term Value Capture

Combining incentives, risk pool management, fee burns, and cross-market liquidity ensures long-term PRY value growth.

The model aligns token holders, participants, and the platform for sustainable benefits.

6.4 Governance & Community Participation

PRY holders participate in platform governance via DAO, including:

Adjusting market parameters such as margin ratios, odds range, and reward coefficients.

Proposing new event types and derivative markets.

Voting on risk strategies, security audits, and platform upgrades.

PRY thus acts as both a value asset and a core governance tool, enabling decentralized decision-making.

6.5 Economic Model Summary

Fixed total supply with reasonable allocation for team, ecosystem, and community.

Multi-dimensional utility: transaction settlement, rewards, risk hedging, and governance.

Combined incentive and burn mechanisms maintain healthy token circulation and long-term value growth.

Community-driven governance ensures sustainable platform development and self-optimization.

This comprehensive token design establishes a robust economic framework for Prysmal, delivering value, trust, and sustainable incentives to participants, investors, and the community.

7. Governance Mechanism

7.1 DAO Governance Model

Prysmal employs a Decentralized Autonomous Organization (DAO) model, granting core decision-making powers to PRY token holders. DAO operates via smart contracts, ensuring all proposals and votes are executed on-chain, guaranteeing transparency and immutability.

Scope of Governance

Market Parameter Adjustment: Margin ratios, odds limits, reward coefficients, etc.

Risk Strategy Management: Risk pool allocation, extreme event hedging, platform security measures.

Platform Upgrades & Feature Expansion: New prediction events, derivative markets, cross-chain functionality.

Governance Process

Proposal Submission: Any PRY holder or team member can submit a governance proposal.

Community Discussion: Proposals are publicly discussed on forums or governance platforms with supporting information.

Voting: Token holders vote based on their PRY holdings; results are calculated

automatically by smart contracts.

Execution & On-Chain Implementation: Approved proposals are executed automatically, preventing manual intervention.

Governance Hierarchy

Core Governance Committee: Early contributors, technical advisors, and community representatives handle major risk decisions and emergencies.

General Community Governance: All PRY holders participate in routine proposals and voting, ensuring long-term decentralization.

7.2 Community Voting Mechanism

Community voting is the DAO's key instrument, ensuring user influence over platform development:

Voting Weight

Calculated based on token holdings. Maximum weight caps prevent centralization.

Proposal Types

Market Optimization: Adjust odds, margin ratios, etc.

Feature Upgrades: Add event types, enhance settlement logic, launch new derivatives.

Risk & Security: Adjust risk pool strategy, upgrade auditing mechanisms.

Voting Cycle & Execution

Proposals have defined discussion and voting periods (typically 7–14 days).

Approved proposals are executed automatically by smart contracts, ensuring efficiency and transparency.

7.3 Proposal & Execution Mechanism

Proposal Format & Requirements

Must include problem description, solution, resource requirements, and expected impact.

Supporting technical documents or risk analyses increase credibility and feasibility.

Evaluation & Feedback

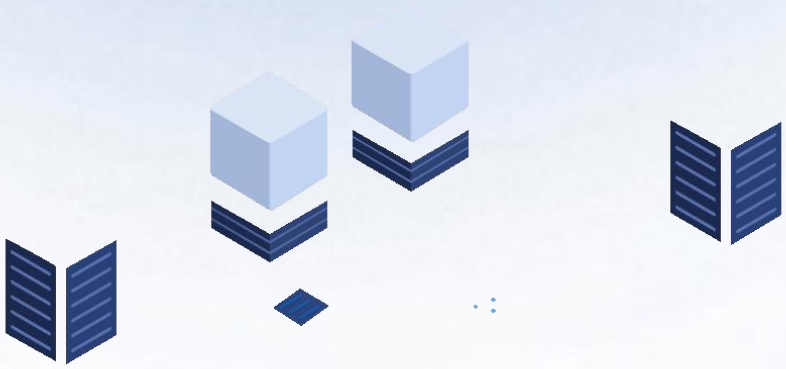
Community members discuss, vote, or suggest modifications.

Core Governance Committee conducts secondary review for high-risk or complex proposals.

Smart Contract Execution

Approved proposals are executed on-chain, including parameter adjustments, reward distribution, or fund allocation.

Execution records are permanently stored and verifiable.



7.4 Security Audits & Compliance

Governance prioritizes both decentralization and security:

Smart Contract Audits

All core contracts are audited by professional firms before deployment to prevent vulnerabilities or attacks.

Risk Monitoring

Real-time monitoring of transactions, bets, and risk pool liquidity. Alerts are triggered for anomalies.

On-chain risk control and multi-layer permission mechanisms mitigate potential losses.

Compliance Support

Optional KYC/AML processes ensure regulatory compliance by region.

On-chain governance and fund flow records enable oversight by regulators and the community.

Through DAO governance and community voting, Prysmal establishes a truly decentralized, transparent, and secure management system for its prediction markets. Governance ensures platform security, risk control, and functional innovation while enabling community-driven, sustainable ecosystem development.

8. Roadmap

8.1 Phase 1: MVP Platform & Core Market Launch (0–6 Months)

The initial focus is to quickly launch a minimum viable product (MVP), validate market demand, and gather user data:

Core Functionality Launch

Introduce foundational prediction markets including financial derivatives, sports, and political events.

Support PRY token settlement, smart contract automated settlement, and basic reward distribution.

Deploy initial risk pools and margin mechanisms to ensure trading security.

Community Building & Promotion

Establish official communities, social media channels, and forums to attract early predictors and investors.

Launch early user events and reward programs to incentivize registration, trading, and governance participation.

Technical Iteration

Optimize smart contract performance for faster transactions and settlements.

Integrate initial oracle systems to ensure reliable and verifiable event data.

8.2 Phase 2: Cross-Chain Derivatives & Liquidity Expansion (6–12 Months)

With platform stability, Prysmal will enhance features and expand markets:

Cross-Chain Prediction Markets

Support multi-chain asset staking and settlement to expand compatibility and user reach.

Integrate with mainstream blockchains and DeFi protocols to improve token liquidity and market depth.

Derivatives Market Expansion

Introduce options, futures, and combination bets as new prediction products.

Provide advanced risk management tools, including margin adjustments, stop-loss, and auto-hedging strategies.

Liquidity Incentive Optimization

Refine PRY reward mechanisms to attract more liquidity providers.

Establish liquidity mining and event incentive schemes to enhance price discovery and depth.

Security & Compliance Enhancement

Strengthen smart contract audits and on-chain risk controls.

Introduce optional KYC/AML to comply with regional regulations.

8.3 Phase 3: Global Expansion & Multi-Scenario Development (12–24 Months)

Prysmal aims to become a leading global decentralized prediction platform:

Global User Expansion

Deploy local community teams in different regions for localization and promotion.

Collaborate with sports leagues, financial institutions, and media platforms to attract high-quality events and traffic.

Diversified Application Scenarios

Expand beyond finance, sports, and politics to social events, technology trends, and emerging industry predictions.

Provide enterprise-grade prediction solutions for internal data-driven decision-making.

Cross-Platform Ecosystem Integration

Integrate with DeFi platforms, NFT marketplaces, and data service providers.

Establish multi-layer ecosystem connectivity to circulate tokens, data, and user value.

Technical & Governance Optimization

Enhance DAO governance with multi-layer voting and incentive mechanisms.

Continuously optimize oracle networks, cross-chain technology, and risk modules for scalability and security.

8.4 Phase 4: Long-Term Strategy & Continuous Innovation (24+ Months)

Innovative Financial Product Development

Explore new derivatives, insurance contracts, and event-driven investment products.

Provide high-quality predictive data for academic research and enterprise decisions.

Global Partnerships & Strategic Alliances

Establish long-term collaborations with international financial institutions, data providers, and technology firms.

Build a cross-industry, cross-chain prediction ecosystem to enable global sharing of information and value.

Sustainable Ecosystem Development

Maintain market activity and platform robustness through token incentives, DAO governance, and liquidity management.

Promote community education, training, and predictive analysis skills, fostering co-growth of platform and users.

This comprehensive roadmap guides Prysmal from MVP testing to cross-chain derivatives, ultimately establishing a global decentralized prediction market platform that unifies technological innovation, community governance, and long-term value growth.

9. Disclaimer

9.1 Investment Risk Warning

This white paper is for informational purposes only and does not constitute investment advice or solicitation. Cryptocurrency investments carry significant risks, including but not limited to price volatility, insufficient market liquidity, technical vulnerabilities, smart contract risks, and regulatory changes. Users should carefully assess their own risk tolerance before participating in PRY token transactions or using the Prysmal platform.

9.2 Accuracy and Completeness of Information

All data, forecasts, plans, and technical descriptions in this white paper are based on currently available information and platform development plans, and may be subject to change due to technological updates, market conditions, or unforeseen factors. The Prysmal team does not assume responsibility for any direct or indirect losses arising from reliance on this white paper.

9.3 Legal and Compliance Statement

The Prysmal platform operates in accordance with applicable laws and regulations, but compliance cannot be guaranteed in all jurisdictions.

This white paper does not constitute a prospectus or offering document for securities, investment products, or financial instruments in any jurisdiction.

Users are responsible for understanding local legal restrictions and ensuring they use the Prysmal platform and PRY tokens within the bounds of the law.

9.4 Technical and Operational Risks

Prysmal relies on blockchain technology, smart contracts, and oracle systems, which may be subject to technical vulnerabilities, attacks, or network disruptions.

The Prysmal team is not liable for asset losses resulting from system failures, force majeure, or third-party service disruptions.

9.5 Limitation of Liability

This white paper and related information are provided solely for project introduction purposes. The team does not accept any responsibility for economic losses or damages, direct or indirect, arising from the use of this white paper. Users should independently make investment decisions and bear their own risks.