

# SOS

## SPORT ORACLE SEEKER

The Decentralized Sports Prediction Protocol  
Built on Solana for the Seeker Generation

### WHITEPAPER v1.0

March 2026

*"Predict. Compete. Earn On-Chain."*

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# 1. Executive Summary

SOS (Sport Oracle Seeker) is a decentralized sports prediction protocol built natively on the Solana blockchain, designed specifically for the Solana Mobile Seeker device. SOS transforms how sports enthusiasts engage with predictions by combining real-time data analytics, artificial intelligence, and blockchain-verified outcomes into a seamless, gamified mobile experience.

The global sports betting market is projected to exceed \$180 billion by 2030, yet the prediction and engagement segment remains largely centralized, opaque, and hostile to users. SOS addresses these fundamental issues by providing a transparent, on-chain prediction platform where every prediction is verifiable, every outcome is immutable, and every user is rewarded for their knowledge and participation.

Built as a Progressive Web App (PWA) optimized for the Solana Seeker phone, SOS leverages the device's native Seed Vault wallet, Mobile Wallet Adapter (MWA), and the Solana dApp Store 2.0 to deliver a Web3-native experience that feels as intuitive as any Web2 application.

## Key Metrics at a Glance:

Metric	Value
Sports Supported	11 (Football, NBA, NFL, F1, Tennis, MMA, Baseball, Hockey, Cricket, Rugby, Boxing)
Data Sources	API-Sports.io Premium (1,000+ leagues worldwide)
Blockchain	Solana (400ms finality, <\$0.001 per transaction)
Target Device	Solana Mobile Seeker
Wallet Integration	Phantom via Mobile Wallet Adapter (MWA)
AI Engine	Multi-model prediction analysis (proprietary)
Launch Status	Active Development — Public Beta Q2 2026

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## 2. Problem Statement

### 2.1 The Broken Sports Prediction Landscape

The traditional sports betting and prediction industry suffers from systemic issues that disadvantage users at every level. Centralized platforms act as both referee and counterparty, creating inherent conflicts of interest. Users have no way to verify odds calculations, outcome resolutions, or platform solvency.

### 2.2 Key Problems Identified

- **Opacity:** Traditional sportsbooks operate as black boxes. Users cannot verify how odds are calculated, whether outcomes are resolved fairly, or how platform revenue is distributed.
- **Centralization Risk:** User funds are held in custodial accounts controlled by the platform. Platform insolvency, regulatory action, or security breaches can result in total loss of funds (e.g., FTX collapse model).
- **Geographic Restrictions:** Regulatory fragmentation means users in many regions are excluded from participation, despite having the knowledge and desire to engage with sports predictions.
- **No Skill Recognition:** Traditional platforms treat all users identically. Expert predictors receive no recognition, reputation, or rewards for consistent accuracy beyond their individual wagers.
- **Extractive Economics:** Centralized platforms capture 100% of the margin. Users who contribute liquidity, predictions, and engagement receive no share of platform value creation.
- **Poor Mobile Experience:** Most Web3 betting dApps are desktop-first, with mobile experiences that feel like afterthoughts. Wallet connections are clunky, transaction signing is confusing, and the UX falls far short of Web2 standards.

*"The sports prediction industry needs a fundamental reset: transparent infrastructure, user-owned data, skill-based rewards, and a mobile-first experience that meets users where they are."*

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## 3. Solution: The SOS Protocol

SOS reimagines sports predictions as a transparent, gamified, on-chain experience. Rather than competing against a house with misaligned incentives, SOS users compete against each other and against the data — with every prediction recorded immutably on the Solana blockchain.

### 3.1 Core Principles

- **Transparency First:** Every prediction, outcome, and reward is recorded on-chain and publicly verifiable. No hidden algorithms, no opaque odds, no counterparty risk.
- **Skill-Based Meritocracy:** SOS recognizes and rewards predictive accuracy through XP, levels, achievements, and leaderboard rankings. The best predictors rise to the top.
- **Mobile-Native Web3:** Built specifically for Solana Mobile Seeker, SOS delivers a Web3 experience indistinguishable from the best Web2 apps — fast, intuitive, and beautiful.
- **Community-Driven:** SOS is built by and for the community. Users shape the platform's evolution through engagement, feedback, and future governance mechanisms.
- **Data-Powered:** Real-time integration with 1,000+ leagues across 11 sports provides the foundation for AI-assisted predictions that go beyond simple gut feeling.

### 3.2 How SOS Works

The SOS prediction flow is designed to be simple for casual users and powerful for expert predictors:

1. **Connect:** Users connect their Phantom wallet via the Seeker's native MWA. One tap, zero friction.
2. **Explore:** Browse upcoming matches across 11 sports with real-time data, AI-powered insights, and community sentiment.
3. **Predict:** Submit predictions using SOS credits. Each prediction is recorded as an on-chain transaction on Solana.
4. **Compete:** Earn XP for accurate predictions. Climb the leaderboard. Unlock achievements and badges.
5. **Earn:** Top predictors earn rewards, recognition, and future protocol benefits. Your prediction accuracy is your reputation.

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## 4. Platform Architecture

### 4.1 Technical Stack

SOS is built on a modern, scalable architecture designed for performance, reliability, and decentralization. The platform leverages Solana's high-throughput blockchain for prediction settlement while maintaining a responsive user experience through optimized frontend and backend systems.

Layer	Technology	Purpose
Frontend	React + Vite + TypeScript	PWA optimized for Seeker
Wallet	Phantom via MWA	Secure wallet connection
Blockchain	Solana Mainnet	Prediction settlement
Backend API	Node.js + Express	Data aggregation & user management
Data Layer	API-Sports.io Premium	Real-time sports data (11 sports)
AI Engine	Multi-model ensemble	Prediction analysis & insights
Database	PostgreSQL	User profiles, history, leaderboard
Hosting	DigitalOcean + SSL	Scalable cloud infrastructure
Auth	Solana Wallet Signature	Cryptographic authentication

### 4.2 On-Chain Architecture

Every user prediction in SOS is recorded as a Solana transaction, creating an immutable audit trail. This architecture ensures that predictions cannot be modified after submission, outcomes are resolved transparently, and user reputation scores are verifiable by anyone.

Solana's sub-second finality and near-zero transaction costs (average \$0.00025 per transaction) make it the ideal blockchain for high-frequency prediction recording. A single SOS prediction costs the user less than 1/10th of a cent in network fees — enabling micro-predictions that would be economically impossible on Ethereum or other high-fee chains.

### 4.3 Data Pipeline

SOS integrates with API-Sports.io's premium tier, providing access to real-time data across 1,000+ leagues worldwide. The data pipeline processes fixture schedules, live scores, player statistics,

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historical results, and odds data from multiple sources. This data feeds both the user-facing interface and the AI prediction engine, ensuring that every prediction is informed by the most current and comprehensive data available.

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## 5. Supported Sports & Data Infrastructure

SOS launches with comprehensive coverage of 11 major sports, with real-time data integration across over 1,000 leagues and competitions worldwide. This multi-sport approach differentiates SOS from single-sport prediction platforms and provides year-round engagement opportunities.

Sport	Leagues	Key Competitions
Football	400+	Premier League, La Liga, Serie A, Bundesliga, Ligue 1, Champions League
Basketball	50+	NBA, EuroLeague, FIBA World Cup
American Football	5+	NFL, NCAA, CFL
Formula 1	1	F1 World Championship (all GPs)
Tennis	100+	Grand Slams, ATP, WTA
MMA	10+	UFC, Bellator, PFL
Baseball	20+	MLB, NPB, KBO
Hockey	30+	NHL, KHL, SHL
Cricket	50+	IPL, Test Cricket, T20 World Cup
Rugby	20+	Six Nations, Rugby World Cup, Super Rugby
Boxing	10+	WBA, WBC, IBF, WBO Title Fights

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## 6. Gamification & Engagement

SOS transforms sports predictions from a passive activity into an engaging, competitive experience. The gamification layer is designed to reward consistent participation, predictive accuracy, and community engagement.

### 6.1 Experience Points (XP) System

Every action on SOS earns XP, with accurate predictions earning significantly more than simple participation. The XP algorithm considers prediction difficulty (based on odds), timing (early predictions earn more), and accuracy (exact score predictions earn bonus multipliers). XP accumulates into levels, each unlocking new features, badges, and privileges.

### 6.2 Achievement System

SOS features a comprehensive achievement system inspired by gaming platforms. Achievements are categorized into tiers (Bronze, Silver, Gold, Platinum, Diamond) and span multiple dimensions including prediction streaks, sport-specific milestones, community engagement, and seasonal events. Rare achievements serve as status symbols within the SOS community.

### 6.3 Leaderboard & Rankings

The SOS leaderboard provides real-time rankings across multiple dimensions: overall prediction accuracy, sport-specific rankings, weekly/monthly competitions, and seasonal championships. Top predictors earn recognition, exclusive badges, and future protocol rewards. The leaderboard resets seasonally to ensure fresh competition while maintaining all-time records.

### 6.4 Social Features

SOS integrates social features that amplify engagement: prediction sharing, friend challenges, group competitions, and community feeds. Users can follow top predictors, compare records, and form prediction groups. All social interactions contribute to XP and achievement progress.

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## 7. Solana Mobile Integration

SOS is built from the ground up for the Solana Mobile Seeker — not as a desktop-first app with a mobile afterthought, but as a truly mobile-native Web3 experience. This strategic focus on the Seeker device provides unique advantages that desktop-first competitors cannot match.

### 7.1 Seeker-Native Features

- **Seed Vault Integration:** Direct integration with the Seeker's hardware-backed Seed Vault provides enterprise-grade security for wallet operations without sacrificing convenience. Users sign predictions with a simple fingerprint or double-tap gesture.
- **Mobile Wallet Adapter (MWA):** SOS leverages the MWA protocol for seamless, standardized wallet connections. Users connect once and stay connected — no repeated QR scanning or manual approvals.
- **dApp Store 2.0:** SOS will be available through the Solana dApp Store 2.0, providing native discovery, installation, and reward tracking through the Seeker Genesis Token ecosystem.
- **Push Notifications:** Real-time notifications for match starts, prediction deadlines, results, and XP milestones — delivered natively through the Seeker's notification system.
- **Offline Resilience:** The PWA architecture enables offline browsing of upcoming fixtures, historical data, and leaderboards, with predictions queued and submitted when connectivity is restored.

### 7.2 Why Seeker First?

The Solana Seeker represents a new category of mobile device — one where blockchain interactions are first-class citizens, not afterthoughts. With 150,000+ preorders across 57+ countries and a growing ecosystem of 165+ dApps, the Seeker community represents an ideal early-adopter audience for SOS: crypto-native, mobile-first, and hungry for innovative on-chain experiences. SOS is designed to be the definitive sports prediction app for this community.

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## 8. AI-Powered Prediction Engine

SOS incorporates a proprietary AI prediction engine that augments user decision-making with data-driven insights. The engine does not replace human judgment — it enhances it, providing users with comprehensive analysis that would be impossible to compile manually.

### 8.1 Multi-Model Architecture

The SOS AI engine employs an ensemble approach, combining multiple analytical models to generate prediction insights. These models analyze historical performance data, head-to-head records, current form trajectories, injury reports, weather conditions, venue statistics, and dozens of additional variables specific to each sport. The ensemble approach provides more robust and reliable insights than any single model could achieve.

### 8.2 Real-Time Data Processing

The AI engine processes data in real-time from the API-Sports.io premium feed, analyzing over 10,000 data points per match. This includes pre-match analysis (form, history, conditions) and in-play data processing for live prediction updates. The engine updates its confidence scores as new data becomes available, providing users with the most current analysis possible.

### 8.3 Transparency & Accuracy Tracking

Unlike opaque prediction services, SOS tracks and publicly displays the AI engine's prediction accuracy across all sports and leagues. Historical accuracy data is recorded on-chain, providing verifiable proof of the engine's performance. Users can make informed decisions about how much weight to give AI recommendations based on transparent, auditable track records.

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## 9. Business Model & Revenue

SOS operates on a sustainable freemium model designed to maximize accessibility while generating revenue from engaged users who seek premium features.

### 9.1 Free Tier

- Access to all 11 sports and 1,000+ leagues
- Daily free predictions (limited credits per day)
- XP system, levels, and basic achievements
- Leaderboard access and community features
- Basic AI prediction insights
- Phantom wallet connection and on-chain recording

### 9.2 Premium Tier

- Unlimited daily predictions
- Advanced AI insights with detailed statistical breakdowns
- Exclusive achievement badges and cosmetic customization
- Priority access to new sports and features
- Premium leaderboard competitions with enhanced rewards
- Historical prediction analytics and performance tracking
- Early access to beta features

### 9.3 Revenue Streams

Revenue Stream	Model	Description
Premium Subscriptions	Monthly / Annual SOL	Unlimited predictions + advanced AI + exclusive features
Credit Packs	One-time SOL purchase	Additional prediction credits beyond daily free limit
Seasonal Passes	Seasonal SOL purchase	Special competition access + exclusive rewards
Partner Integrations	Revenue share	Data partnerships with sports platforms and analytics providers

# 10. Future Token Economics

SOS is evaluating the introduction of a native protocol token to align incentives across all ecosystem participants. While no token has been announced or committed to, this section outlines the conceptual framework under consideration. Any token launch would be subject to regulatory review and community governance.

## 10.1 Conceptual Token Utility

- **Prediction Staking:** Users could stake tokens alongside predictions, with accurate predictions earning proportional rewards from a shared pool.
- **Governance:** Token holders could participate in protocol governance, voting on new sports additions, feature prioritization, and economic parameter adjustments.
- **Premium Access:** Tokens could serve as the native payment method for premium subscriptions and credit packs, with token-based payments receiving preferential pricing.
- **Creator Rewards:** Top predictors and community contributors could earn token rewards based on their contributions to the ecosystem.
- **Liquidity Mining:** Early participants who provide value to the protocol during launch phases could earn token allocations through engagement mining programs.

## 10.2 Indicative Distribution Framework

The following allocation is a preliminary framework subject to change based on regulatory guidance, community feedback, and market conditions:

Allocation	Percentage	Vesting
Community & Ecosystem Rewards	40%	Distributed over 4 years via engagement mining
Development Fund	20%	4-year linear vesting with 6-month cliff
Team & Contributors	15%	4-year linear vesting with 12-month cliff
Strategic Partners	10%	2-year linear vesting with 6-month cliff
Liquidity & Market Making	10%	Released at TGE for exchange listings
Reserve Fund	5%	Governance-controlled treasury

*IMPORTANT: No token sale is currently planned or scheduled. This framework is provided for informational purposes only and does not constitute an offer, solicitation, or commitment to issue any token. Any future token would comply with applicable regulations.*

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# 11. Roadmap

## Phase 1: Foundation (Q1 2026) — COMPLETED

- Core PWA development (React + Vite + TypeScript)
- Solana wallet integration via Mobile Wallet Adapter
- API-Sports.io premium integration (11 sports)
- XP system, achievements, and leaderboard
- Deployment on DigitalOcean with SSL
- Initial community building and social media presence

## Phase 2: Public Beta (Q2 2026) — IN PROGRESS

- Public beta launch on Solana dApp Store 2.0
- AI prediction engine v1.0 deployment
- Community feedback integration and UX refinement
- Premium tier launch with SOL payments
- Seeker Genesis Token holder rewards
- Partnership development with sports data providers

## Phase 3: Growth (Q3-Q4 2026)

- AI prediction engine v2.0 with enhanced accuracy
- Social features: friend challenges, group competitions
- Seasonal championship system with exclusive rewards
- Multi-language support (French, Spanish, Portuguese)
- Strategic partnerships with sports leagues and media
- Token economics finalization and community governance framework

## Phase 4: Scale (2027+)

- Cross-chain expansion (Ethereum, Base, Polygon)
- Native mobile app (iOS/Android) alongside PWA
- Live in-play prediction markets
- API access for third-party developers

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- DAO governance transition
  - Global expansion with regional sports coverage

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# 12. Security & Risk Management

## 12.1 Smart Contract Security

All SOS smart contracts will undergo independent third-party security audits prior to mainnet deployment. The protocol follows security-first development practices including formal verification where applicable, comprehensive test coverage, and staged rollouts with circuit breakers for emergency response.

## 12.2 User Security

SOS never holds user private keys. All wallet interactions are handled through the Seeker's hardware-backed Seed Vault and the Mobile Wallet Adapter protocol. Users maintain full custody of their funds at all times. Prediction transactions are signed locally on the device and submitted directly to the Solana network.

## 12.3 Data Security

User data is minimized by design. SOS requires only a wallet address for core functionality — no email, no password, no KYC. Optional profile data is encrypted at rest and in transit. The platform complies with GDPR and international data protection standards.

## 12.4 Risk Factors

- **Blockchain Risk:** Solana network congestion or outages could temporarily affect prediction submission and settlement.
- **Regulatory Risk:** Changes in sports betting or cryptocurrency regulations could impact platform operations in certain jurisdictions.
- **Market Risk:** Cryptocurrency volatility affects the value of SOL-denominated transactions and potential token economics.
- **Smart Contract Risk:** Despite audits, smart contracts may contain undiscovered vulnerabilities.
- **Data Risk:** Reliance on third-party data providers creates dependency on their accuracy and availability.

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## 13. Team

SOS is developed by an anonymous founding team, following the cypherpunk tradition of building in the open while maintaining personal privacy. The team believes that the quality of the protocol should speak for itself, and that decentralized systems should not depend on the identity of their creators.

The founding team brings experience across full-stack development, blockchain engineering, sports data analytics, AI/ML systems, and community building. The team is actively building in public, with regular development updates shared through the official SOS social channels.

*"We are builders first. Our identity is our code, our community, and our results. The oracle does not reveal its face — only its predictions."*

### 13.1 Contact & Community

- **X/Twitter (Official):** @seekersosai
- **Website:** [seekersos.io](https://seekersos.io)
- **Email:** [contact@seekersos.io](mailto:contact@seekersos.io)
- **Blockchain:** Solana Mainnet

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## 14. Legal Disclaimer

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