

Parkmates (PARK) White Paper

A Blockchain-Powered Solution for Parking, Revenue Sharing & Future Mobility

Executive Summary

Parkmates (PARK) is an innovative blockchain-powered platform designed to modernize the parking industry by addressing inefficiencies in revenue sharing, enhancing transparency, and creating loyalty incentives for drivers and operators. Through AI-driven pricing and decentralized solutions, Parkmates aims to transform parking into a scalable and sustainable component of future smart cities. By integrating AI, EV charging, and mobility services, Parkmates sets itself apart from competitors such as SpotHero, ParkWhiz, and ParkMobile by leveraging blockchain technology and decentralized revenue-sharing mechanisms.

1. Introduction

The global parking industry faces significant challenges, including inefficient revenue-sharing models, lack of transparency, and limited loyalty programs. Parkmates (PARK) is a blockchain-based platform that seeks to solve these problems by:

- Decentralizing revenue sharing and co-ownership for property owners.
- Introducing rewards and loyalty programs for drivers.
- Leveraging AI-driven pricing to optimize parking space usage and maximize revenue.

Parkmates tokens (PARK) power the ecosystem, fostering transparency, trust, and flexible monetization for an inclusive, efficient, and scalable parking marketplace.

2. Market Overview and Problem Statement

2.1 Market Opportunity

- The global smart parking market is valued at \$6–7B (2024) and is projected to grow to \$11–15B by 2028.
- Urbanization, EV adoption, and digitization drive demand for tech-driven parking solutions.

2.2 Key Challenges

1. Inefficient Revenue Sharing: Stakeholders face challenges with manual accounting and revenue splits.
2. Lack of Transparency: Centralized systems increase the risk of disputes and data manipulation.
3. Limited Loyalty Programs: Current parking solutions fail to incentivize drivers and operators effectively.
4. Static Pricing Models: Operators miss revenue opportunities by relying on fixed or manually adjusted pricing.

2.3 Parkmates' Vision

Parkmates envisions a transparent and user-friendly ecosystem powered by blockchain, token incentives, and AI. This scalable solution extends beyond parking, integrating EV charging, tolling, and mobility services.

3. Parkmates Solution Overview

3.1 Decentralized Marketplace

- Aggregates public garages, private lots, and residential spaces into one platform.
- Provides real-time availability, enabling instant booking and payment using PARK tokens or fiat.

3.2 Blockchain-Powered Revenue Sharing

- Smart contracts automate revenue distribution among stakeholders, reducing overhead and disputes.

3.3 Loyalty and Rewards System

- PARK tokens incentivize operators for maintaining availability and drivers for utilizing the network.

3.4 AI-Driven Dynamic Pricing (Future)

- AI will optimize parking rates based on occupancy, events, traffic, and weather, ensuring maximum efficiency and revenue.
-

4. Target Audience

4.1 Primary Users

- Parking operators: Municipalities, private lot owners, and co-owned spaces.
- Drivers: Urban commuters, event attendees, and EV drivers.

4.2 Secondary Users

- Municipal governments: For streamlining parking operations and integrating smart city initiatives.
 - Transportation authorities: To enhance urban mobility solutions.
-

5. Competitor Analysis

| Feature | Parkmates | SpotHero | ParkWhiz | ParkMobile |
|--------------------------------------|-----------|----------|----------|------------|
| Decentralized Revenue Sharing | Yes | No | No | No |
| Blockchain Integration | Yes | No | No | No |
| AI-Driven Pricing | Planned | No | No | No |
| EV Integration | Planned | Limited | Limited | Limited |
| Loyalty Rewards | Yes | Limited | Limited | Limited |

Parkmates' competitive edge lies in its blockchain-powered transparency, decentralized revenue-sharing, and planned AI integration, which distinguish it from existing players like SpotHero, ParkWhiz, and ParkMobile.

6. Technical Architecture

6.1 Blockchain Infrastructure

- Layer 1: Sui Blockchain for high throughput and low fees.
- Smart Contracts: Automate revenue sharing, loyalty rewards, and halving mechanisms.

6.2 AI Integration

- Real-time data analysis for dynamic pricing based on occupancy, traffic, and events.

6.3 Security and Privacy

- Ensures tamper-proof transactions and user data protection.

6.4 Optional Layer 2 Extensions

- For instant validations and off-chain AI computations.
-

7. Tokenomics

7.1 PARK Token Utility

1. Payments: Drivers can pay for parking at discounted rates using PARK tokens.
2. Staking: Operators and drivers can stake tokens for premium features and rewards.
3. Governance: Token holders can vote on platform upgrades and policies.
4. Revenue Sharing: Smart contracts distribute PARK tokens among stakeholders.

7.2 Token Supply and Allocation

- Total Supply: 100 Million PARK
- Allocation:
 - Community Rewards: 30%
 - Private/Public Sales: 20%
 - Team & Advisors: 15% (vested)
 - Ecosystem Fund: 15%
 - Liquidity: 10%
 - Marketing & Operations: 10%

7.3 Emission & Burn Mechanisms

- Accelerated halving every 2–3 years.
 - Burn mechanisms include transaction fees and partial staking rewards, ensuring net deflation.
-

8. Roadmap

Phase 0: Foundational & Legal (Months 1–3)

- Legal compliance and token classification.
- White paper finalization and seed funding.

Phase 1: Token Launch & MVP (Months 4–6)

- Token deployment on the Sui mainnet.
- Basic marketplace and revenue-sharing pilot.

Phase 2: Ecosystem Expansion (Months 7–12)

- Onboarding parking operators.
- Launching loyalty programs and transaction fee burns.

Phase 3: AI-Driven Pricing (Months 12–18)

- Real-time rate adjustments with pilot programs.

Phase 4: Scale & Mobility (Year 2+)

- Municipal partnerships and EV charging integration.
 - Expansion into global markets.
-

9. Revenue Model

9.1 Platform Fees

- Reservation fees and premium listing fees.

9.2 Token Value Capture

- Staking and token buybacks to reduce circulating supply.

9.3 AI Services (Future)

- Dynamic pricing modules offered as premium subscriptions.
-

10. Risk and Mitigation

10.1 Regulatory Risks

- Compliance with regional parking and cryptocurrency regulations.

10.2 Market Adoption

- Incentivizing early adopters and building strategic partnerships.

10.3 Technological Challenges

- Regular audits and scalability testing for blockchain and AI systems.
-

11. Conclusion

Parkmates (PARK) aspires to revolutionize the parking industry by leveraging blockchain technology, tokenomics, and AI to create a transparent and efficient ecosystem. With a clear roadmap and innovative solutions, Parkmates aims to become a critical part of future smart city mobility systems, integrating parking, EV charging, and broader transportation services.

Legal Disclaimer

This White Paper is for informational purposes only and does not constitute investment, legal, or financial advice. Prospective purchasers should conduct their own due diligence and consult professional advisors.