SOLights

A decentralized smart traffic management system

PRESENTED BY:
Colin Woon from Team FITYMI

Overview

A decentralized traffic management system leveraging Solana's Proof of History (PoH), Proof of Stake (PoS), and 5G technology for real-time, secure, and scalable traffic control.

Track

- Infrastructure
  - Inductive Loop Detectors, slow and unreliable

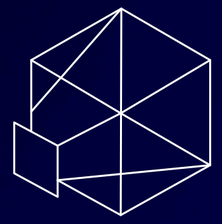
Objectives

- Real-time Traffic Management
- Decentralized Data Validation
- Enhanced Public Transparency

Functionality

5G

- High speed & low latency

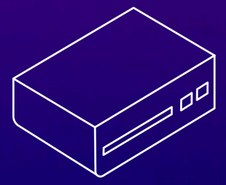


Proof-of-History (PoH)

- Timestamp traffic data

Proof-of-Stake (PoS)

- Decentralized validation mechanism



Edge Computing

- Further reduced latency

Impact

- Pioneering the use of blockchain in smart city infrastructure.

- Transparency & Public Trust

- Ecosystem Growth

- Scalable solution

Novelty (Why Solana?)

METRIC	SOLIGHT (SOLANA)	ETHEREUM	5G SMART TRAFFIC
Consensus Mechanism	**Proof of History (PoH) & Proof of Stake (PoS)**	Proof of Work (PoW) & transitioning to PoS (Ethereum 2.0)	Centralized Control
Transaction Speed (TPS)	**~65,000**	~15	Depends on server
Latency	**~400ms**	~15s	Depends on server
Data Integrity & Transparency	**High**	Moderate	Relies on authority
Edge Computing Integration	**Strong**	Minimal	Relies on cloud
Scalability	**High**	Limited	Scalable, but expensive
Gas fee	**$0.00025**	$2.00	$0.50

User Experience

Real-Time Interactions

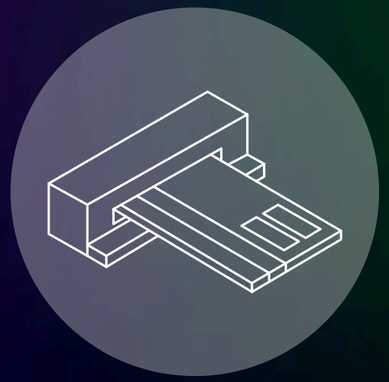
Cost-Efficient Microtransactions

Scalability for Large-Scale Urban Networks

Business Plan

Partnership Opportunities

Data Monetization



Subscription Model for Enterprises

Thank You

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