

DataSov

Digital ID and Data Sovereignty via Hybrid Blockchain

2025.10.19

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1. Solo Founder & Motivation

Solo Founder & Motivation

Leveraging mission-critical security and enterprise blockchain insights

- Founder Background: Over **15 years in Core Banking System Development**, ensuring deep expertise in **mission-critical security, auditing, and compliance**
- Credibility Highlight: **Biz Dev Head at SBI R3 Japan**, providing **Corda enterprise supports**
- Credibility Highlight: Manager at SBI Holdings Blockchain Promotion Office, utilizing insights from METI-selected initiatives (e.g., Trusted Web, BRP, **DID/VC**)
- Why I Started: Current models fail to balance user control and enterprise compliance. DataSov is the necessary hybrid solution to mandate privacy (Corda) while enabling **fluid monetization (Solana)**

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2. The Problem: The Data Control Crisis

The Problem: The Data Control Crisis

The fundamental contradiction between user sovereignty and enterprise data utility

- Core Issue 1: **Centralized Data Silos**. Users' personal data is centrally managed by corporations, resulting in a **lack of ownership and financial return** for the individual
- Core Issue 2: **Privacy-Monetization Trade-off**. Protecting privacy prevents data utilization, making **monetization difficult**
- Core Issue 3: **Inefficient Data Access**. High demand for data from businesses, but compliance and privacy barriers **prevent access to trustworthy, high-quality data**

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3. Market Opportunity & Early Validation

Market Opportunity & Early Validation

Hybrid approach targeting highly regulated, high-value data sets

- Market/Opportunity: Targeting the rapidly growing **global Data Monetization and Decentralized Identity (DID) markets**
- Focus: Specifically concentrating on **Mobile Carrier (e.g., NTT DOCOMO) and Health Data monetization**—high-value, highly-regulated data sets that require the DataSov hybrid approach
- Validation/Feedback (Data Consumers): "Access to location data from KYC-verified identities would drastically **improve our data confidence and legal standing**."
- Validation/Feedback (Data Owners): "The ability to monetize my data while having an **instantaneous right to revoke access** is a major incentive."

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4. Solution: The Hybrid Data Sovereignty Model

DataSov: The Hybrid Data Sovereignty Model

Fusing Corda's compliance with Solana's liquidity for "Best of Both Worlds"

Layer 1: Corda (Identity/Compliance Layer)

- Core Philosophy: Guarantees **Trust, Privacy, and Regulatory Compliance**; Enterprise-grade by design
- Control: Enables granular access permissions (e.g., READ_ONLY for 30 days) and **instant revocation**
- Compliance: Built-in KYC and Audit Trail features, informed by core banking insights

Layer 2: Solana (Data Marketplace Layer)

- Core Philosophy: Enables **High-Speed, Low-Cost** trading and tokenization
- Monetization: Anonymous data is **tokenized as an NFT** for listing
- Performance: Leverages **65,000+ TPS** capability and ultra-low transaction fees (<\$0.001)

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5. Core Architecture & Cross-Chain Flow

DataSov: Core Architecture

The 4-step process linking Corda (ID) and Solana (Marketplace)

- 1 Step 1: ID Registration (Corda): Secure **Digital Identity (DID)** and KYC verification on Corda. Sensitive data is encrypted and private.
- 2 Step 2: Proof Generation (Bridge): Corda generates a **cryptographic Identity Proof** that Solana validates.
- 3 Step 3: Data Tokenization (Solana): User's **anonymized data** is tokenized as an NFT for listing.
- 4 Step 4: Access Synchronization: Corda enforces access control; **revoking permission instantly invalidates** the related Solana NFT permissions.

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6. Corda & Solana Component Breakdown

Corda & Solana: Functionality Breakdown

Distinct responsibilities ensuring compliance and speed are optimized

Corda: ID & Control

Ensures **Granular Access Permissions** and **Instant Revocation** is enforced based on immutable KYC-verified IDs. This guarantees compliance.

Solana: Market & Speed

Handles the **NFT Monetization** and **Automated Fee Distribution**. Its 65k+ TPS capability ensures data trading is seamless and efficient.

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7. Big Vision & Call to Action

My Big Vision: Data Sovereignty for Everyone

The global standard for compliant, user-controlled data exchange

- Long-Term Vision: I envision DataSov becoming the **global standard** for compliant, user-controlled data exchange.
- Integration Path: My knowledge of government-selected DID initiatives ensures a clear path to integrating this solution into **high-value regulated sectors** (Mobile/Health/Finance).
- Future Innovation: **Zero-Knowledge Proofs (ZKPs)** to prove identity without revealing personal data.
- Future Innovation: **Homomorphic Encryption** to process data while it remains encrypted.
- Future Innovation: Expanding to **Multi-Chain Support** beyond Corda/Solana.
- **CALL TO ACTION**: Help us build the data economy of the future!



DataSov