1st Base LitePaper

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1. Executive Summary

1st Base represents a shift in blockchain architecture, prioritizing long-term stability and resistance to governance capture. Unlike contemporary projects that often suffer from development gridlock or value extraction, 1st Base implements a **Dual-Layer Governance Model**. This approach strictly separates the rigid, immutable preservation of the Base Layer from the boundless innovation of the Application Layer.

The result is a platform where infrastructure stability is guaranteed by stewardship, while user sovereignty and application rules remain decentralized and permissionless.

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2. The Core Philosophy: Sovereign Stability

The central thesis of 1st Base is that absolute freedom requires an absolute foundation.

2.1 The Stability Problem

In many decentralized networks, the protocol itself is subject to constant political flux. "Governance" often devolves into interest groups lobbying for protocol changes that benefit short-term price action over long-term security. This volatility erodes developer confidence; building on shifting ground is a risk.

2.2 The Dual-Layer Solution

We propose a bifurcation of responsibilities:

1. **The Protected Base Layer:** Managed through a stewardship model, this layer is designed to be immutable, simple, and resistant to political pressure. Its sole mandate is security and uptime.
2. **The Sovereign Application Layer:** The domain of the user and the community. Here, governance is fully decentralized. Communities define their own consensus on content, moderation, and value exchange, without risk of the underlying protocol interfering.

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3. Technical Architecture

3.1 The Blockchain (The Chain)

The 1st Base blockchain is engineered for reliability and scalability without unnecessary complexity.

- **Block Time:** 2 minutes.
- **Finality:** 10 blocks (approx. 20 minutes) for distinct confirmation.
- **Structure:** A simplified UTXO-based model designed compatibility and ease of auditing.

This architecture rejects "governance theater." Protocol parameters such as block size and emission schedules are hardcoded to prevent centralization vectors often introduced by "on-chain voting" mechanisms.

3.2 Consensus Algorithm: Human-Scale Proof of Work

To ensure the network remains physically decentralized (running on user devices rather than in data centers), 1st Base utilizes a modified Proof-of-Work algorithm.

- **ASIC/GPU Resistance:** The algorithm utilizes salt-locked execution paths that are inefficient for specialized hardware (ASICs) and GPUs, favoring general-purpose CPUs.
- **Thread Limiting:** The protocol enforces a strict 2-thread limit per mining instance. This "Anti-Greed" mechanism ensures that extensive server farms have negligible advantage over a distributed network of home computers.

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4. Ecosystem & Utility

4.1 1st Social: Sovereign Identity

The flagship implementation of the Application Layer is 1st Social. It reimagines social networking by coupling identity with cryptography.

- **Wallet-Based Identity:** Users authenticate via their cryptographic keys. This creates a portable, sovereign identity that cannot be revoked by a central authority.
- **Permissionless Publishing:** Data is stored in a distributed manner, ensuring that no single entity can censor speech or interactions.
- **Community Moderation:** While the base is immutable, communities on 1st Social can implement their own moderation layers (filters), allowing for curated experiences without censorship.

4.2 The Local Node (Your Sovereign Stack)

1st Base provides a comprehensive "All-in-One" node application. This software allows any user to run the full stack—Blockchain Node, Miner, Wallet, and Block Explorer—directly on personal hardware. This removes reliance on third-party API providers (e.g., Infura), ensuring true network autonomy.

5. Tokenomics: The Perpetual Stewardship Model

The economic model of 1st Base is designed to fund endless development without the need for Venture Capital exit liquidity or continuous ICOs.

- **Total Supply:** Capped at 1,000,000 FIRST.
- **Emission Schedule:** A deflationary curve with rewards reducing by roughly 10% annually (halving every 12 months).
- **Genesis Allocation (The Endowment):** 75% of the genesis supply is reserved for the **Foundation Endowment**.
  - *Purpose:* This is not a developer allocation for sale. It is a permanent fund where staking rewards and slow release mechanisms provide a perpetual budget for core developers, infrastructure costs, and grants for open-source tools.
  - *Security:* This safeguards the project from external financial capture.