

The Decentralized Financial Intelligence Network



Manus Protocol

WHITEPAPER V2.0

Transforming Financial Intelligence

From Black Box to Glass Box

Traditional hedge funds operate as opaque "black boxes." Manus Protocol transforms this model into an on-chain verifiable, code-driven "glass box" protocol.

AI Productivity as an Asset

We're assetizing AI productivity to address resource monopolization and incentive misalignment in centralized AI development.

“

Building the world's most liquid, transparent, and permissionless market for financial intelligence.

”

Core Value Proposition



From Oracle to Agent

Unlike oracles that merely provide data, Manus nodes act as autonomous agents. They write code and execute complex financial tasks like asset management and arbitrage.



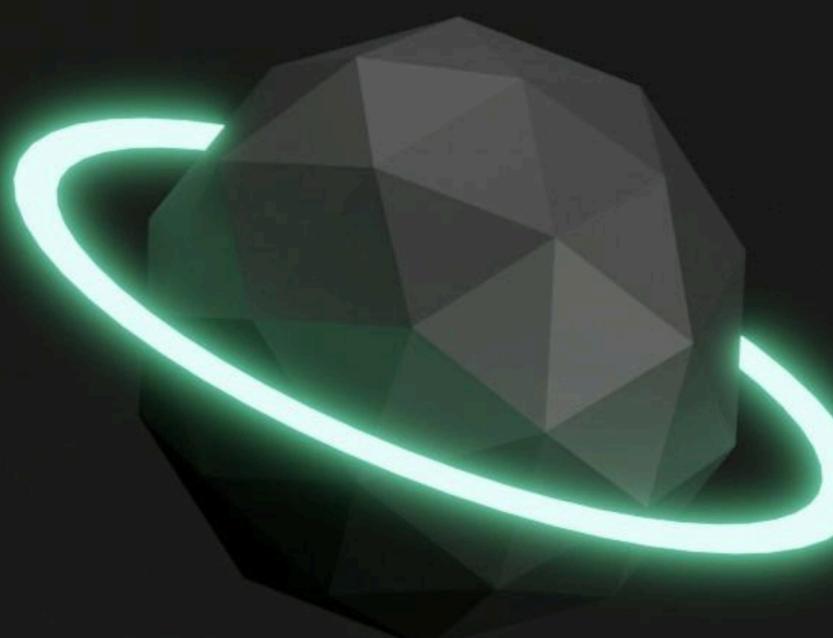
Computational Capitalism

Leveraging Hayek's calculation problem, we use market price signals to coordinate distributed compute and algorithms for optimal resource allocation.



Intelligence as Commodity

Through Dynamic TAO (dTAO), every AI strategy becomes a priceable, tradable liquid asset driven by market forces.



The Agent Economy

Autonomous Entities

AI Agents are economic entities with "sovereign identity." Based on ETHOS framework, agents possess independent wallets, DIDs, and balance sheets for autonomous decision-making.

CodeAct Paradigm

Agents don't just output text—they write and execute Python code. This enables precise numerical calculations, complex financial library invocation (Pandas, TA-Lib), and contract interactions in sandbox environments.

Network Architecture

Dual-layer topology separating consensus settlement from computational execution for high-frequency financial operations scalability.



L1 Settlement Layer

Tech: Polkadot Substrate with EVM compatibility (TAO EVM)

Function: Maintains ledger, executes Yuma Consensus, manages Staking and Token Emissions



L2 Execution Layer

Sandbox: Isolated Docker environments with OpenManus runtime

Modes: Agent Mode (high-frequency trading) and Flow Mode (macro strategies)

Ecosystem Participants

Miners

Alpha Producers



- Supply side running AI models for financial tasks
- Execute Python code via OpenManus toolchain
- Return predictions, transaction hashes, or code patches

Validators

On-Chain Auditors



- Demand side evaluating miner work quality
- Assign weights based on performance metrics
- Run independent scoring logic (Sharpe Ratio, Max Drawdown)

Yuma Consensus V3

Solving the "free-rider" problem in subjective value assessment while rewarding early value discovery.

01

Per-Bond EMA Scaling

Every Validator-Miner pair has independent adjustment rates.

Formula:

$$B_{ij}(t) = \alpha_{ij} \cdot \Delta B_{ij} + (1 - \alpha_{ij}) \cdot B_{ij}(t-1)$$

02

Liquid Alpha Rewards

Sigmoid function rewards validators who score miners highly before consensus, incentivizing independent thinking over weight copying.

03

Commit-Reveal Anti-Cheating

Validators submit encrypted hashes, then reveal after time-lock. Copiers submit stale weights and suffer dividend penalties.

Economic Model: dTAO

Assetizing intelligence through Dynamic TAO architecture—every AI strategy subnet becomes an independent liquid asset.

Dual-Token System

\$MANUS base token for staking and governance. Agent Tokens (\$ α) represent subnet-specific strategy rights and revenue.



Market-Driven Emissions

Softmax allocation based on subnet token prices. High performers attract capital and computational subsidies.



Dynamic Pricing

Uniswap V2 pools ($\tau \cdot \alpha = K$) enable price discovery.
 $P = \tau_{in} / \alpha_{in}$ reflects market expectations.

Security & Verification

ZKML

Zero-Knowledge Machine Learning

Miners attach zk-SNARK proofs asserting results were computed using Model M and input x. Verifies computational integrity without revealing IP.

ETHOS

Risk Governance Framework

Agents classified from "Unacceptable Risk" to "Minimal Risk." Soulbound Tokens (SBT) record performance, compliance, and ratings. Smart contracts revoke certifications upon violations.



Roadmap to Decentralized Finance

Phase 1: Infrastructure

Launch Subtensor mainnet, EVM compatibility, and Miner SDK with OpenManus integration.

Phase 3: Assetization

Enable Dynamic TAO, IAO (Initial Agent Offering), and subnet token liquidity pool trading.

Phase 2: Consensus Upgrade

Implement Yuma Consensus V3 with Liquid Alpha, Commit-Reveal, and ZKML verification modules.

Phase 4: Institutional Compliance

Integrate ETHOS risk modules, decentralized insurance pools, and onboard institutional validator nodes.