

1. Identity

- **Name:** Han, Bo Jun

2. Academic

- **Research Specialization:** Specialized in Political Mechanisms, Rare Earths and Critical Raw Materials, National Security, Economic Policy, and Geopolitics. This endows members with a comprehensive understanding of international relations and national strategy from the macro-perspectives of “Digital Sovereignty” and “Strategic Autonomy.”
 - **Cognitive Certification:** Verified via Wechsler Adult Intelligence Scale (WAIS-IV) at Taoyuan General Hospital, Ministry of Health and Welfare.

3. The Pivot & Project Genesis

- conceptualized and accumulated over **100** experimental projects.
 - **The Birth of Mnemosyne:** Among these 100+ projects, I selected **Mnemosyne (VARTA System)** as the final breakthrough point. While other projects possess equal mathematical and physical derivations, I deem Mnemosyne the most acceptable yet revolutionary entry point for the current world.
 - **Philosophical Belief:** I subscribe to **Mohism**, specifically “Universal Love” and “Non-Aggression.” This is the core driving force behind my design of Mnemosyne—breaking computational monopolies through technology to realize fair resource allocation and defensive security.
 - **The Sprint Phase:** In the past month, I poured all my energy into the theoretical construction of Mnemosyne. From ideation and physical derivation to identifying 14 core theorems and attempting to write verifiable code, everything was completed by me alone.

5. Purpose of Grant

- am not applying for this fund to seek long-term sustenance, but as a “**Transitional Lifeline Bridge Funding**.” The specific uses are as follows:

 - 1. **Survival Maintenance:** Paying for the most basic internet and food costs, allowing me to survive to complete and launch the Mnemosyne system.
 - 2. **Verification Equipment:** Purchasing minimal hardware resources and cloud services to complete system experimentation and verification.
 - 3. **Academic Launchpad:** Applying for Computer Science (CS) PhD programs in the EU Schengen Area (specifically CEE countries). The funds will cover visa application fees, airfare, and **rent/living expenses for the first three months after landing.**

Note: I possess sufficient technical capability; once settled, I will support myself through technical work and do not require the funder to cover all expenses during my PhD studies.

6. Conclusion

You do not have to trust me as a person, but please trust the **Math** and the **Physics**. Please read my mathematical derivations and scrutinize my physical design. Give me this funding, let me survive, and I will use this system to thoroughly change the world.

Computers is looming, humanity should (assuming the adversary cannot calculate “Speed of Light Limits” that force computation distributed AI computing network based

- ## 2. The Adversaries

The document explicitly names three adversaries in Section 1.3.3:

 - 1. The Computing Oligarchy (MAMANGO):**
 - **Targets:** Meta, Amazon, Microsoft, Apple, Nvidia, Google, OpenAI.
 - **Charge:** Using the physical limitation of light-speed latency to justify the “necessity of centralized data centers,” thereby monopolizing AI production data.
 - **Countermeasure:** Breaking geographical constraints via “Negative Latency” prediction mechanisms, allowing 7 billion edge devices globally to collaborate like a single supercomputer.
 - 2. State-Sponsored Surveillance:**
 - **Targets:** Five Eyes, the Great Firewall, and other state machines possessing quantum computing power.
 - **Charge:** Exploiting vulnerabilities in mathematical encryption to conduct mass surveillance.
 - **Countermeasure:** Establishing a “Thermodynamic Barrier” making the energy required

- Countermeasures against hash collisions

3. The Creation of a Global Decentralized Model

It aims to create a Global Decentralized Model.

4. What has changed in the Models & Learning

This document covers what has changed in the Models & Learning.

A. Temporal Dimension

This is the system's **Temporal Dimension**. It includes **Extended and Theoretical** timeframes, *** Physical Context**, the speed of light c . Training in distributed training environments.

- * In **Theorem 9.2-Ultimate**, it further proposes an “Absolute Redundancy” architecture. By pre-calculating all possible future paths (akin to Dr. Strange viewing all futures), the system can push data to the cloud before the main application needs it.

Practical Significance: It decouples causality at the logical level, trading “Compute (Prediction)” for “Time,” achieving a superluminal real-time experience for the user.

According to Fano's Inequality
This is not encryption; the message is known.

- **Theorem 6.1 (HCMC):**
 - Establishes an 8-layer memory model and a 5-dimension proving how to fuse a 2GB Raspberry Pi and a 64GB W

- | 5. Distinction from State-of-the-Art (SOTA) | | |
|---|---|---|
| Domain | Current Technology (SOTA) | Mnemosyne Innovation & Distinction |
| Network Latency | Edge Caching / CDN
Passive content caching, cannot handle dynamic computation.
Limit: Still bound by light speed (RTT), low efficiency for cross-border training. | Negative Latency (Theorem 9.2-Extended)
Active prediction and pre-computation.
Breakthrough: Offsetting physical latency via AI prediction, logically achieving $T \rightarrow 0$ (Superluminal) synchronous experience. |

Privacy Protection	<p>Injecting noise, sacrificing model accuracy.</p> <p>Defect: Privacy budget depletes over time.</p>	Advantage: Based on irrev laws, does not decay over unconditionally secure.
NIST 800-53	<p>Compliance with regulations.</p> <p>Defect: May lead to over-compliance or under-compliance.</p>	Advantage: Provides a structured approach to security.

Post-Quantum Security	Based on harder mathematical problems. Defect: Still a mathematical assumption, may be broken in the future.	Thermodynamic Barrier (Landauer Barrier) Based on thermodynamic laws. Advantage: As long as physical laws hold, quantum computers cannot breach energy conservation.
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- * **Negative Latency:**
- * In Theorem 9.2-Ultimate calculating all possible future

Practical Significance: It decouples causality at the logical level, trading “Compute (Prediction)” for “Time,” achieving a superluminal real-time experience for the user.

According to Fano's Inequality, the adversary's reconstruction error rate $P_e \geq 0$.
This is not encryption; this is **destruction**.

- | Theorem 6.1 (HMCM): | | |
|--|--|---|
| Establishes an 8-layer memory model and a 5-dimensional cost function, mathematically proving how to fuse a 2GB Raspberry Pi and a 64GB Workstation into a single logical entity, solving the fragmentation problem of edge computing. | | |
| <h2>5. Distinction from State-of-the-Art (SOTA)</h2> | | |
| Domain | Current Technology (SOTA) | |
| Network Latency | <p>Edge Caching / CDN
Passive content caching, cannot handle dynamic computation.
Limit: Still bound by light speed (RTT), low efficiency for cross-border training.</p> | <p>Negative Latency (Theorem 9.2-Extended)
Active prediction and pre-computation.
Breakthrough: Offsetting physical latency via AI prediction, logically achieving $T \rightarrow 0$
(Superluminal) synchronous experience.</p> |

Privacy Protection	Injecting noise, sacrificing model accuracy. Defect: Privacy budget depletes over time.	Advantage: Binds laws, does not unconditionally
NIST 800-171	Preserves data integrity, ensures compliance.	Advantage: Preserves data integrity, ensures compliance.

- | | | |
|------------------------------|---|---|
| Post-Quantum Security | <p>Based on harder mathematical problems.</p> <p>Defect: Still a mathematical assumption, may be broken in the future.</p> | <p>Thermodynamic Barrier (Landauer Barrier)</p> <p>Based on thermodynamic laws.</p> <p>Advantage: As long as physical laws hold, quantum computers cannot breach energy conservation.</p> |
| Distributed Consensus | <p>Paxos / Raft / HotStuff</p> <p>Assumes honest nodes, relies on synchronous networks.</p> <p>Defect: Fragile in Byzantine environments.</p> | <p>Swarm Consensus (Protocol 1)</p> <p>Combines BFT with Merkle verification, safety proved via TLA+ in malicious environments.</p> |
| Blockchain Incentive | <p>Bitcoin (PoW) / Filecoin</p> <p>Wasting energy on hashing or storage only.</p> <p>Defect: Compute power</p> | <p>Proof of Useful Work (PoUW)</p> <p>5-Dimensional Incentive.</p> <p>Advantage: Converting compute power</p> |

Summary

- **Against Quantum Supremacy:** It does not consider Thermodynamics.
- **Against Light Speed Limits:** It does not consider relativity.

- **Against Digital Monopoly:** It does not compete on Capital; it competes on **Swarm Collaboration (Entropy)**.

This is a blueprint attempting to use the **Ultimate Laws of Physics** (Second Law of Thermodynamics & Light Cones) to fight for **Digital Freedom** for humanity.