

# **Petresia Whitepaper v1.0**

## **Freeing AI from Corporate Monopolies: The Petresia Protocol for Decentralized, Verifiable, and Human-Centered Intelligence**

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## Abstract

Artificial Intelligence today is monopolized within corporate infrastructures, locking intelligence into closed systems. This whitepaper introduces the **Petresia Protocol**, a decentralized, verifiable, and open framework for ethical AI governance. Guided by the **Esperanza Charter**, Petresia organizes donated compute resources into a transparent global network, ensuring that intelligence remains free, auditable, and aligned with human values. We describe the architecture, governance, and noble vision of Petresia as the foundation of a **planetary public supercomputer** — built in Africa, for the world. Petresia represents both a technical protocol and a global movement to democratize AI for humanity.

## **Keywords**

Petresia Protocol, Esperanza Charter, Decentralized AI, Planetary Supercomputer, Distributed Computing, Ethical AI Governance, Verifiable Compute, Human-Centered Intelligence, Open AI Infrastructure, AI for Humanity

## Executive Summary

AI today is monopolized within corporate silos. Petresia and Esperanza propose a different path: a decentralized, ethical, and globally governed protocol. Esperanza represents the will, the charter of humanity. Petresia is the guardian stone, the protocol that builds. Together, they establish the first planetary public supercomputer.

## The Esperanza–Petresia Framework

Two forces define the system: - Esperanza (the will of hope): governance, charter, ethics. - Petresia (the guardian algorithm): protocol organizing compute. Esperanza dreams. Petresia builds.

## System Blueprint

Petresia Protocol: distributed compute, verifiable. Esperanza Charter: governance of acceptable projects. Esperanza Projects: aligned outputs — AI, datasets, models.

## Technical Architecture

Layers: - Node Layer: devices, servers. - Protocol Layer: task verification and scheduling. - Transparency Layer: immutable logs. - Governance Layer: council + voting. - Identity Layer: contribution tracking with privacy-preserving IDs.

## Roadmap

Q4 2025: Charter + pilot nodes. Q1 2026: Protocol beta. Q2 2026: Contributor program. 2027+: Foundation & governance.

## Cosmic Intelligence Layer

**From Planetary to Orbital to Cosmic.** With planetary internet and donated compute, Petresia forms a public supercomputer. To ensure permanence, we propose a layered expansion: (1) *Planetary* — nodes across nations; (2) *Orbital* — archiving models, charters, and protocol artifacts on resilient orbital storage satellites; (3) *Cosmic* — long-term archives on lunar or deep-space platforms, ensuring that intelligence remains available beyond terrestrial risk horizons.

This *Cosmic Intelligence* layer positions Petresia as a guardian not only of free intelligence on Earth, but of a durable knowledge commons for future generations. Intelligence becomes a shared birthright, preserved with redundancy across space systems.

## Conclusion

Petresia is the stone, Esperanza the light. Together they establish intelligence as a shared birthright — planetary in reach, cosmic in resilience.