



META HiIT

Meta Healthcare iN Technology

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1. ABSTRACT

1.1 Vision Statement

Meta HiNT is a digital trust infrastructure that combines DID (Decentralized Identifier), VC (Verifiable Credential), and multi-data AI to realize both personal data sovereignty and practical utility.

It operates on a Consent Ledger that separates off-chain encrypted storage and on-chain integrity hashing, allowing selective disclosure and revocation of user consent records.

On this foundation, Meta HiNT integrates PoH (Proof of Health) rewards, connected vending networks linked to hospitals, pharmacies, fitness centers, and retail, credential-verified professional networks, and a metaverse-based Health Twin to complete a seamless user journey across recommendation → purchase → consultation → reward.

All processes follow compliance-by-design principles aligned with GDPR, PIPA, and other international regulations. Ultimately, the goal is to build an interoperable ecosystem where users lead the cycle of consent, sharing, and reward, shaping a new era of user-driven digital trust and health data autonomy.

1.2 Problem Recognition

The centralized identity and data systems of traditional platforms have led to repetitive sign-ups, excessive data collection, and an increased risk of data leaks and misuse.

Even within the blockchain ecosystem, challenges persist — notably a lack of verifiable trust, insufficient regulatory compliance, and limited real-world utility.

1.3 Meta HiNT's Approach

Meta HiNT employs a DID/VC-based decentralized identity system that enables users to selectively disclose and revoke their information only when necessary.

Through Multi-Data Embedding AI, it integrates clinical, wearable, purchasing, survey, and behavioral data into a cross-modal and explainable personalization framework.

By adopting a separated on-/off-chain architecture, Meta HiNT stores sensitive data off-chain

under encryption, while anchoring integrity hashes on-chain, enhancing both privacy and security.

Within the Metaverse Health Twin, users can visualize health metrics, missions, consultations, and consent control through an avatar-based interface, increasing engagement, motivation, and participation in their health journey.

1.4 Expected Outcomes

Meta HiNT strengthens personal data protection and self-sovereignty, enhances precision personalization, ensures compatibility with global standards, and expands real-world utility through strategic partnerships and ecosystem scalability.

1.5 Key Services (Summary)

- AI-driven Personalized Health Recommendations
- Medication-Induced Nutrient Deficiency Supplementation Program
- Personalized Health Supplement Vending Machines (Connected Vending)
- Professional Network (nutritionists, pharmacists, doctors)
- Data Reward & Research Cohort (Opt-in Model)
- Metaverse Health Twin – visualization of indicators, missions, consultations, and consent control
- Global Health Passport (QR) & Credential Verification Service – based on DID/VC (including verifiable credential receipts)
- Premium AI Health Reports (Paid Service) – advanced interpretation and coaching

2. MARKET BACKGROUND AND NECESSITY

2.1 The Crisis of Digital Trust

Massive personal data breaches and monopolized data control have eroded user autonomy and trust.

In highly sensitive sectors such as healthcare, regulatory requirements for privacy protection are becoming increasingly stringent.

2.2 Opportunities in Blockchain and Web3

Blockchain technology enables transparency and immutability, reestablishing trust in digital systems.

In particular, the DID (Decentralized Identifier) and VC (Verifiable Credential) standards serve as the core technologies that realize both user sovereignty and interoperability across ecosystems.

2.3 Global Market Trends

The DID/VC and digital identity verification markets are experiencing sustained high growth, driven by the standardization efforts of regulatory authorities such as eIDAS 2.0.

Moreover, as the demand for KYC (Know Your Customer) and KYH (Know Your Health) increases across healthcare and financial sectors, the adoption of verifiable credentials is expanding rapidly, accelerating the transition toward trust-based digital ecosystems.

2.3.1 Global Healthcare Market Trend Analysis (2025–2035)

(1) Market Overview and Paradigm Shift

The global healthcare market continues to expand, driven by rapid population aging, the rising prevalence of chronic diseases, and increased demand for personalized wellness solutions. In particular, the convergence of AI and blockchain is emerging as a pivotal axis for overcoming the limitations of traditional healthcare systems and establishing a new digital healthcare paradigm.

- Artificial Intelligence (AI) plays a central role in disease prediction, precision diagnostics, personalized treatment, and health condition monitoring.
- Blockchain technology ensures data integrity, traceability, and security, enabling trust-based data exchange among healthcare institutions, consumers, and insurance companies.

Together, these technologies are transforming healthcare from reactive treatment models to proactive, data-driven precision health ecosystems.

(2) Market Size and Growth Outlook (2023–2035)

The global healthcare market, valued at approximately USD 10 trillion in 2023, is projected to grow at a compound annual growth rate (CAGR) of 8.5%, reaching about USD 11.76 trillion in 2025, USD 17.74 trillion in 2030, and USD 26.9 trillion by 2035.

- The AI healthcare sector is expected to expand from USD 6.8 billion in 2025 to over USD 20 billion by 2030, achieving a CAGR of 24.3%.
- The blockchain healthcare market is projected to increase from USD 1.3 billion in 2025 to over USD 5 billion by 2030, with a robust CAGR of 31.3%.
- The precision nutrition market is forecasted to grow from USD 11 billion in 2025 to approximately USD 23 billion in 2030, marking a CAGR of 15.6%.

Overall, from 2025 to 2035, the healthcare industry is transitioning toward an era of data-driven, interoperable, and patient-centric innovation, powered by the synergistic evolution of AI, blockchain, and precision health technologies.

2.4 Competitor Analysis

Company	Technology Focus	Weaknesses / Limitations	Meta HiNT's Advantage
WHOOP	Wearable-centric	Limited personalization, insufficient AI-driven analysis	Advanced AI-driven recommendations + integration with health vending
Babylon Health	Telemedicine & chatbot services	No blockchain adoption, data reliability concerns	Blockchain-based data security
Ada Health	Symptom-based AI diagnostics	Lack of data personalization, difficulty integrating biometrics	Integrated analysis of personal health data

Teladoc Health	Telemedicine & mental health	High costs, concerns over data protection	Cost-efficient personalized solutions + user reward system
Nutrigeno mix	DNA-based nutrition analysis	Limited AI capabilities, narrow application scope	AI + DNA-based precision nutrition recommendations

Meta HiNT's Core Competencies

- Meta HiNT integrates clinical, wearable, purchasing, and behavioral data through multi-data AI and predictive modeling to generate personalized real-time recommendations on risk management, supplementation, and behavioral guidance.
- By combining DID/VC (Decentralized Identifier / Verifiable Credential) with a Consent Ledger system, Meta HiNT ensures data integrity and traceability through selective disclosure and revocation, issuer verification, and revocation management based on the Status List 2021 standard.
- The introduction of the ATL (Adaptive Trust Layer) enables differentiated application of minimum disclosure and least privilege policies using a 0–1000 trust score and policy packs, while dynamically adjusting user grades and reward weightings.

Through its Connected Vending distribution system, Meta HiNT delivers personalized nutrition recommendations that link on-site purchases → verifiable credential receipts → PoH (Proof of Health) updates in real time — offering an innovative, closed-loop health experience.

- The MTHT-based participation reward structure distributes value across PoH rewards, staking yields (+2–10% boost via DAO confirmation), and premium data market profits.

In addition, the Metaverse Health Twin visualizes health indicators, missions, and consultations through an intuitive 3D user interface, supporting on-site verification via a global health passport (QR-linked) for seamless real-world interoperability.

2.5 Summary of Differentiation Strategy

Unlike existing platforms that remain technically fragmented or limited to generic approaches, Meta HiNT integrates and analyzes multi-source data to deliver actionable feedback, instantly linking it to real-world purchases, consultations, and rewards. Furthermore, built on DID/VC-based identity and the ATL scoring system, Meta HiNT ties user participation to rewards (MTHT) and graded engagement. Through the Metaverse Health Twin, it visualizes health status, missions, and consent processes, delivering a highly immersive and user-centric experience.

3. TECHNOLOGY VISION AND ARCHITECTURE

3.1 Technology Vision

Meta HiNT places DID/VC at the core of trust, while designing AI, security, and compliance on an equal footing. The ultimate goals are “secure personalization” and “regulatory-compliant data utilization.”

3.2 System Architecture Overview

- Infrastructure Layer: Polygon L2/EVM, HSM-based key management, IPFS/distributed storage, and event bus.
- Identity Layer: DID issuance/management, VC creation/verification, W3C standards, SD-JWT/BBS+ compatibility, with support for revocation and expiration.
- Service Layer: DID/VC login, consent management, recommendation APIs, connected vending (kiosk + VC receipts), and dApp SDK.
- Governance Layer: DAO proposals/voting, budget execution, and operation of an attestation registry.

3.2.1 DID/VC Standards and Methods

- Standards Compliance: W3C VC 2.0 + SD-JWT (Selective Disclosure), issuance via OIDC4VCI, and revocation/status management with Status List 2021.

- DID Methods: Long-term user identifiers via did:ion, lightweight identifiers via did:key; initial institutional adoption with did:web transitioning to did:ion.
- Initial VC Types: KYC VC, medical VCs (tests/diagnostics/vaccinations, etc.), device attestation VC, lifestyle VC, and professional credential VC.

3.2.2 Adaptive Trust Layer (ATL)

The Adaptive Trust Layer (ATL) is a dynamic trust framework that adjusts the required level of proof and scope of disclosure according to context, risk level, and jurisdiction. It orchestrates DID/VC, consent ledger, selective disclosure, revocation, PoH attestations, and issuer reputation through a policy-based mechanism, thereby realizing the principles of minimal disclosure and least privilege.

ATL Scoring Model (0–1000)

Factor	Weight	Description
Source Reliability	35%	Higher scores for hospitals, accredited institutions, and certified devices.
Recency	15%	Additional weight for the most recent and up-to-date data.
Consistency	20%	Alignment and coherence across multiple data sources.
Habit Adherence	15%	Rewards for consistent health practices and sustained compliance.
Outcome Improvement	10%	Positive trends in indicators such as blood pressure or sleep quality.
Staking Boost	5%	Minor bonus when staking, subject to DAO-imposed upper limits.

Grade/Permission Linkage

Based on the ATL score, service tiers (Bronze to Platinum), data access levels, and reward weightings are applied differentially, ensuring a risk-adjusted and merit-based participation structure.

3.3 Differentiated Technical Points

- Multi-Data Embedding (7 patents, including international filings): Implements modal encoders → attention-based fusion → individualized baselines, providing reliability scores and explainability.
- Safety Guardrails: Supports automated detection of drug–supplement interactions and escalates red flags to ensure user safety.
- Proof of Health (PoH): Certifies beneficial activities such as steps, medication adherence, medical checkups, and purchases as verifiable credentials (VCs), linking them to rewards and staking multipliers.
- Metaverse Health Twin: Delivers a spatial UI for real-time indicators, missions, and consultations, while controlling permissions, duration, and purpose at the consent flow.
- On/Off-Chain Design: Applies off-chain encryption (AES-256 + KMS) with on-chain integrity hashes, following a zero-knowledge (ZK)–friendly roadmap.

3.4 Core Services

(1) AI-Powered Personalized Recommendation Engine

The AI Personalized Recommendation Engine analyzes clinical and laboratory data, prescription and medication records, wearable data (sleep, HRV, steps), purchase and intake logs, and survey/lifelog data to provide:

- Deficiency/excess risk analysis
- Recommended nutrients, dosages, and intake timing
- Drug–nutrient interaction alerts (contraindications)
- Credibility and evidence metadata

To ensure safety, the system incorporates a drug–nutrient interaction database, clinician review protocols, and red-flag alerts that automatically connect users to verified experts when necessary.

(2) Drug-Induced Nutrient Deficiency Supplementation Program

This program provides personalized supplementation protocols that consider nutrient losses caused by specific medications.

It customizes recommendations based on dosage, intake schedule, formulation type (capsule/powder/chewable), and meal or sleep rhythm.

User adherence is reflected in the PoH (Proof of Health) system, with streaks, badges, and refill reminders to support continuous engagement and compliance tracking.

(3) Personalized Health Supplement Vending Machine (Connected Vending)

Installed in hospitals, pharmacies, fitness centers, and supermarkets, these connected vending machines provide an end-to-end experience:

App recommendation → On-site DID login → Product confirmation → Payment → VC (Verifiable Credential) receipt issuance → PoH update and reward.

The system supports inventory and recall synchronization, compliance with nutrient labeling standards, and integration with reward coupons and subscription services, ensuring a transparent and scalable operational ecosystem.

(4) Professional Network (Nutritionists, Pharmacists, etc.)

Meta HiNT operates a VC-based credential registry, verifying professional qualifications through VC issuance for sessions and recommendations.

It supports various consultation formats — remote, in-person, and metaverse-based (e.g., posture or routine coaching).

A performance-linked compensation system connects payments to adherence levels and measurable health improvements, ensuring accountability and outcome-based service quality.

(5) Data Reward and Research Cohort (Opt-in Model)

Meta HiNT applies privacy-by-design principles — de-identification, purpose limitation, and revocability — to ensure ethical data use.

Users are rewarded with MHT tokens based on data quality, novelty, and utility, with transparent disclosure of DAO budget allocations, fostering trust and active participation in research-driven data ecosystems.

4. TOKENOMICS

4.1 Basic Token Information

- Token Name / Ticker: Meta HiNT / MTHT
- Network: Polygon (ERC-20 compatible)
- Total Supply: 1,000,000,000 MTHT (fixed supply)
- Distribution Mechanism: Smart contract–based, phased release

4.2 Token Distribution Structure

Category	Allo cat ion	Token Amount	TGE	Cliff	Vesting	비고
Team & Advisors	10%	100,000,000	0%	12 m	60 months (month ly)	5-year total period : retention mechanism for key personnel
Foundation Reserve	15%	150,000,000	0%	6 m	48 months (month ly)	Operations, contingency, R&D: subject to annual spending cap
Marketing & Partnerships	25%	250,000,000	10%	0 m	36 months (month ly)	Campaigns, rewards, partners; quarterly disclosure of allocation

Community & DAO	20%	200,000,000	0%	0 m	Streaming / Grants	DAO-approved execution; annual disbursement ≤25%
Ecosystem Subsidy	15%	150,000,000	0%	3 m	48 months (quarterly)	Support for builders, nodes, and research initiatives
Public Sale	10%	100,000,000	50%	0 m	12 months (monthly)	Subject to KYC and jurisdictional restrictions
Private Sale	5%	50,000,000	10%	0 m	18 months (monthly)	Primarily for strategic partners

4.3 Distribution and Lock-up Policy

At the Token Generation Event (TGE), only the Public, Private, and Marketing/Partnership pools will be unlocked, while all other pools will start at 0% release.

Monthly linear vesting will be applied according to each pool's schedule, with no allowance for premature or excessive releases.

Each quarter, Meta HiNT will publicly disclose remaining and scheduled unlocks, token usage, and circulation forecasts.

A multi-signature wallet and DAO-controlled guardrail system will be implemented to ensure transparency and prevent misuse. Any buyback or liquidity provision (LP) activities will require separate DAO approval.

- Team and Advisor allocations will remain locked for at least 2 years before distribution.
- Foundation reserves will be utilized strategically under DAO-approved governance decisions.
- Marketing tokens will be used for exchange listings, global campaigns, and reward events,

while sale allocations will be released gradually before and after listings to maintain market stability.

4.4 Token Utility

The MTHT token functions not merely as an investment asset but as a core operational asset of the Meta HiNT ecosystem.

It grants governance rights through DAO voting and proposal participation, enables access to DID/VC-based authentication services and dApp utilities, and supports staking mechanisms to enhance network security and provide reward incentives.

4.4.1 Token Utility (7 Types)

1. Service Tier System (Bronze to Platinum): Expands benefits such as consultations, discounts, and priority access. Rewards are weighted proportionally to the user's tier and ATL score.
2. Premium Data Marketplace: Transactions are conducted in MTHT, with a portion of the revenue distributed to data contributors.
3. Insurance and Wellness Partnerships: Higher tiers offer insurance premium discounts and reward coupons.
4. Staking Boost System: Users gain an ATL score boost (+2–10%) depending on staking duration, verified through DAO governance.
5. Global Health Passport (QR): Combines DID, required VCs, and user tier into a portable verifiable credential for seamless identity verification.
6. AI Health Report (Paid Service): Offers advanced interpretation and coaching features, payable in MTHT, with tier-based discounts.
7. Reward Weighting System: Provides dynamic reward multipliers for engagement, health mission completion, and verified contributions.

4.5 Differentiation Points

Meta HiNT's tokenomics are characterized by:

- A utility-centered design that minimizes securities-related risks,
- Transparent fund management through DAO-based governance, and
- Balanced allocation across marketing, development, and governance functions, ensuring sustainable ecosystem growth.

4.6 Burn / Fee Policy

Meta HiNT operates a policy framework that allows periodic token burns of a portion of protocol revenues (from marketplace, AI, and consultation services) under DAO approval. This mechanism aims to gradually reduce circulating supply, thereby mitigating token value dilution over time.

Before each burn event, the financial and liquidity impacts are carefully assessed, and details such as burn ratio, frequency, and trigger conditions are pre-disclosed.

Meta HiNT enforces a mandatory quarterly reporting system and applies DAO-controlled guardrails to ensure the transparency, accountability, and safety of the burn policy.

4.7 Business Model

The Meta HiNT business model goes beyond simple payments or service fees. It is designed to connect real data value creation with user participation rewards within an integrated AI, DID, and PoH ecosystem.

The platform fosters mutual benefit among diverse participants — users, brands, experts, research institutions, and device manufacturers — thereby enabling sustainable token circulation and ecosystem expansion supported by real, revenue-generating activities.

(1) Health Challenge & Sponsorship Program

Overview:

This program centers on user-generated health achievement data, enabling brand-sponsored

health challenges.

Examples include missions such as “30-Day Medication Compliance Challenge” or “10,000 Steps a Day Challenge.”

Partner brands sponsor these challenges and provide MTHT rewards or promotional incentives for successful participation.

Revenue Structure:

Revenue streams include:

- Sponsorship fees from brands
- Campaign exposure income
- Reward distribution fees from challenge participation
- Data verification and certification API services provided to partners and institutions

Token Integration:

Challenge outcomes are issued as PoH (Proof of Health) credentials, directly linked to MTHT rewards.

Brands may stake MTHT or register campaigns via DAO governance, ensuring transparent and decentralized operation of sponsorship programs.

Market Reference:

Comparable global reward-based fitness and wellness models — such as Vitality, Sweatcoin, and Stepn — have demonstrated high user engagement and sustainability, validating the growth potential of Meta HiNT’s incentive-driven health ecosystem.

(2) Health Data–Based B2B API Sales

Overview:

Within the Meta HiNT platform, DID-based anonymized health data is provided in the form of APIs to pharmaceutical companies, health food brands, and research institutions.

The datasets include activity patterns, nutritional trends, and personalized health scores, enabling data-driven product development, research, and wellness innovation.

Revenue Structure:

The service operates under a monthly subscription (B2B SaaS) or pay-per-use billing model, applying tiered pricing based on data type, frequency, and retention period for each API package.

Token Integration:

A portion of the API usage fees can be paid using MTHT tokens, and data providers (users) are rewarded with MTHT proportional to the quality and contribution of their shared data.

The purpose, scope, and reward ratio for data utilization are approved and managed by the DAO, ensuring transparent and ethical data governance.

Market Reference:

Global data-infrastructure-based healthtech companies such as Apple HealthKit, Human API, and Evidation operate with similar B2B models, validating the scalability and sustainability of Meta HiINT's approach.

(3) AI Health Coach Subscription Service

Overview:

The AI Health Coach extends Meta HiINT's AI Report feature into a premium subscription service offering personalized analytics, nutrition plans, exercise routines, and expert consultations.

This service provides continuous AI-guided coaching for users seeking customized wellness management.

Revenue Structure:

The subscription model is priced between USD 9 and 29 per month, with additional charges for AI-generated reports, expert sessions, and advanced Health Twin features.

It is also offered as a corporate wellness solution or insurance-linked group subscription license, expanding B2B adoption opportunities.

Token Integration:

Subscribers can pay for their plans using MTHT tokens, benefiting from tier-based discounts according to their service level.

Maintaining a subscription for an extended period grants ATL score bonuses and enhanced reward weighting.

Additionally, DAO-approved coaching content creators receive MTHT rewards for producing verified, high-quality training or consultation materials, fostering a sustainable, community-driven coaching ecosystem.

Market Reference:

Subscription-based healthcare platforms such as Noom, Fitbod, and Calm have established themselves as major revenue drivers in the global healthtech market.

(4) Health Device Partnership and Leasing Model

Overview:

Meta HiNT partners with health device manufacturers and distributors to integrate its AI Report and Health Twin functions into smart health devices such as wearables, diagnostic kits, and IoT health trackers.

Through this collaboration, the platform delivers personalized analytics, diet and exercise guidance, and expert consultations, seamlessly linking real-time biometric data with Meta HiNT's ecosystem.

Revenue Structure:

The model is based on monthly subscription or leasing fees, typically ranging from USD 9 to 29 per month, with additional charges for advanced AI reports, expert consultations, or premium Health Twin features.

It can also be offered through corporate wellness programs or insurance partnerships as group subscription or device leasing packages, enhancing accessibility and B2B scalability.

Token Integration:

Users can pay for subscriptions or device leases using MTHT tokens, with tier-based discounts applied according to user grade.

Maintaining a long-term subscription or lease grants ATL score bonuses and reward weighting benefits.

In addition, DAO-approved device partners and coaching content creators receive MTHT rewards for verified ecosystem contributions.

Market Reference:

Subscription-based healthcare platforms such as Noom, Fitbod, and Calm have become major revenue streams in the global healthtech market, validating the potential of Meta HiNT's integrated device-as-a-service (DaaS) approach.

(5) AR/VR-Based Metaverse Health Training Service

Overview:

By extending the Meta HiNT Health Twin, this service enables users to train, consult, and complete health missions in an immersive AR/VR metaverse environment.

Users can interact with virtual trainers, health experts, or peers, creating a gamified wellness experience that blends exercise, education, and real-time motivation.

Revenue Structure:

Revenue is generated through:

- Paid training sessions and pass tickets
- Subscription-based training packages
- Trainer and brand advertising
- Content partnerships
- NFT avatar and item transactions within the virtual space

This model combines Web3 engagement, gamified health missions, and immersive metaverse interaction, establishing Meta HiNT as a next-generation AI health and fitness ecosystem bridging digital and physical wellness.

Token Integration:

MTHT tokens are used for session payments and reward distribution, ensuring seamless value exchange within the ecosystem.

PoH (Proof of Health) data is reflected in real time within the Health Twin, automatically updating each user's tier status and reward balance based on activity and performance.

Additionally, the DAO governs a “VR Challenge Proposal” system, allowing community members and partners to propose and launch new AR/VR wellness missions.

Market Reference:

Platforms such as ZEPETO, XRHealth, and Supernatural VR are leading the metaverse-based fitness market, with the AR/VR health sector projected to grow at a compound annual growth rate (CAGR) exceeding 25% after 2025.

Meta HiNT’s Business Model Summary:

The Meta HiNT business model establishes an organically connected cycle of data → participation → reward → subscription → API → device → metaverse, transcending the one-time revenue limitations of conventional healthcare services.

This sustainable retention and token circulation ecosystem is directly linked to the DAO’s budgeting and partnership framework, reinforcing both the real-world utility and market scalability of the MTHT token within a globally interoperable digital health economy.

5. ROADMAP

5.1 Development Phase Overview

Meta HiNT pursues a phased development approach focused on achieving practical feasibility and long-term sustainability, ensuring that each stage delivers measurable progress toward the full realization of the ecosystem.

5.2 Phase-by-Phase Plan

Q4 2025 – Foundation Completion Phase

- Launch of Polygon Network and official ERC-20 token distribution
- Completion of CertiK security audit and exchange listing preparation
- Establishment of backend infrastructure and health data collection framework
- Pilot operation of token integration and reward system

Q1 2026 – MVP Development & DAO Implementation

MVP (Minimum Viable Product) development in progress

- Implementation of UI/UX, health data collection, and token integration features

DAO Governance Activation

- On-chain community voting system
- Establishment of a user-participatory decision-making structure

March 2026 (End of Q1) – Beta App Launch

Android Beta Version Release

- Internal testing and external QA execution
- Functional improvement based on real user feedback

Q2 2026 – Authentication & Reward System Enhancement

Version 2.0 Update

- Integration of DID authentication and PoH (Proof of Health) reward system
- Reinforcement of data reliability and automation of user authentication

Q4 2026 – Commercialization Phase

Version 3.0 Official Launch

- Full UI overhaul and AI analysis engine enhancement
- Reflection of user group testing results

Commercial Service Launch

- Full integration of DID + Health Twin
- Inclusion of AI-driven health analytics and smart vending integration

2027–2028 – Ecosystem Expansion

- Expansion of the dApp ecosystem with third-party developer participation
- Open API release for external integrations
- Implementation of cross-chain interoperability

2029 and Beyond – Global Standardization

The project enters its maturity phase, focusing on global partnerships, regulation-friendly infrastructure, and DAO-based autonomous governance.

The ultimate goal is to establish MTHT as a global utility asset within a fully decentralized health data ecosystem.

6. REGULATORY AND COMPLIANCE STRATEGY

6.1 Understanding the Regulatory Environment

Meta HiNT's compliance framework is built on a utility token model and data protection-centric architecture, designed to accommodate the diverse and rapidly evolving regulatory landscapes across different regions.

6.2 Key Compliance Principles

- Utility-focused model: Emphasizing service access, governance participation, and staking functionality rather than speculative investment.
- DAO and on-chain transparency: Ensuring full traceability and auditability of all governance and fund-related activities.

- Alignment with global data protection laws: Including GDPR (EU) and PIPA (Korea) to uphold international privacy standards.
- Local licensing compliance: Obtaining relevant operational or financial licenses when required by jurisdiction.

6.3 Regional Strategies (Summary)

- South Korea:
Complies with the Personal Information Protection Act (PIPA), Act on Reporting and Use of Certain Financial Transaction Information (Travel Rule & ISMS certification), and restrictions on medical advertising.
- Indonesia:
Adheres to Personal Data Protection Law No. 27/2022, telemedicine guidelines, and is preparing for the transition of digital asset oversight to OJK (Financial Services Authority).
- Philippines:
Follows the Data Privacy Act, DOH–NPC Telemedicine Guidelines, and BSP (Bangko Sentral ng Pilipinas) Virtual Asset Service Provider (VASP) registration requirements.
- Vietnam:
Aligns with PDPD (Decree No. 13/2023), telemedicine circulars, and responds to the government's ongoing development of a digital asset regulatory and research framework.
- EU/EEA:
Complies with GDPR and evaluates applicability under MiCA (covering utility tokens, asset-referenced tokens, and e-money tokens) as well as the EU AI Act and Medical Device Regulation (MDR) for health-related AI components.
- United States:
Complies with HIPAA (where applicable), CCPA/CPRA, FDA SaMD (Software as a Medical Device) guidelines, and FinCEN, state MTL (Money Transmitter License), and OFAC requirements – acknowledging variations across individual states.

6.4 Internal Governance Framework

Meta HiNT operates a comprehensive internal governance framework consisting of:

- A legal advisory network to ensure continuous alignment with international and local regulations.
- A Risk Management Committee under the DAO, responsible for overseeing compliance, auditing, and operational transparency.
- A policy feedback loop that enables rapid updates and adaptations in response to regulatory changes or newly enacted laws, ensuring long-term resilience and regulatory readiness across all jurisdictions.

7. PARTNERSHIPS AND COLLABORATION STRATEGY

7.1 Necessity of Strategic Partnerships

Meta HiNT aims to establish a multi-dimensional collaboration model that extends beyond the capabilities of a single project.

This approach integrates technology development, service operation, regulatory compliance, and market expansion, forming a cooperative framework that enhances resilience and scalability across all ecosystem components.

7.2 Key Collaboration Areas

Meta HiNT builds partnerships across the following strategic domains:

- Technology: DID/VC infrastructure, smart contract development, and blockchain architecture.
- Services: Wallets, payment systems, and decentralized applications (dApps).
- Exchanges and Financial Institutions: Token listings, liquidity partnerships, and payment integrations.
- Regulatory and Legal Advisory: Ongoing compliance, policy alignment, and jurisdictional licensing support.

- Community Partners: Co-marketing, educational outreach, and ecosystem engagement programs.

7.3 Global Network Expansion Strategy

The global expansion strategy begins with infrastructure and exchange-level trust building, followed by the integration of service and data utilization partners.

Meta HiNT applies region-specific differentiation to optimize growth:

- Asia: Focus on technology partnerships and exchange integrations.
- North America & EU: Emphasis on regulatory compliance and data protection alliances.
- Emerging Markets: Deployment of accessible, user-friendly service models to drive adoption.

7.4 Differentiation Points of Collaboration

Meta HiNT's partnership framework introduces a DAO-based partnership management system, enabling community-driven proposal and approval mechanisms.

It employs KPI-based reward structures to ensure performance accountability and encourages ecosystem-insider models, where partners act as active operators within the Meta HiNT ecosystem, fostering sustainable, mutually beneficial collaboration.

7.5 Strategic Partners



Glink Co., Ltd.

Collaboration on building online and offline ecosystems



Future Guarantee Finance Co., Ltd.

Financial partnership for sustainable growth

8. REGULATORY AND RISK MANAGEMENT

8.1 Regulatory Environment Analysis

- Meta HiNT adopts a sandbox- and advisory network–driven strategy to respond to both the regional variations and the rapid pace of regulatory changes, ensuring adaptability and resilience.

8.2 Strategies for Minimizing Regulatory Risk

- Reinforce utility-focused design to mitigate securities classification risk
- Maintain DAO-based transparent operations
- Engage with local legal advisors for jurisdiction-specific compliance
- Leverage regulatory sandboxes to test and refine services under supervision

8.3 Security Risk Management

- Conduct external audits of smart contracts
- Implement HSM-based key management
- Minimize data storage by relying on DID/VC frameworks
- Establish disaster recovery (DR) systems and emergency response protocols

8.4 Market and Business Risk Management

Address risks of volatility, competition, and sustainability through:

- Liquidity partnerships
- DAO stabilization funds
- Differentiation via DID/VC identity, PoH incentives, and Metaverse Health Twin services

8.5 Differentiation in Risk Management Framework

- Preventive Approach: Anticipates risks rather than reacting to them
- DAO-Based Transparency: Open and community-driven governance processes
- Regular Updates: Continuous adaptation to regulatory and technological changes

9. TEAM



CEO
SERINA

Nationality: Indonesia

Education: Biomedical Informatics, Universitas Indonesia

Career Background:

- **BioFood Indonesia:**
Developed an AI-driven health management system integrating nutrition, IoT, and data analytics to create a personalized diet and wellness management platform.
- **NOVITA Indonesia:**
Led an IoT-based bidet healthcare service project, implementing smart hygiene monitoring and blockchain-based health data verification.
- **NutriWell Indonesia:**
Oversaw the strategy for an AI-powered wellness platform that combines nutritional intelligence, digital health coaching, and metaverse-based consultation services.



COO
DANIEL JO

Nationality: Republic of Korea

Education: Gyeongnam National University of Science and Technology

Career Background:

- **StarComs Co., Ltd.** – Led AI-based financial data and risk management system integration, optimizing asset management and operational efficiency.
- **Taebaek ENG Co., Ltd.** – Managed smart manufacturing projects in shipbuilding and automotive parts, improving productivity and process automation.
- **SPP Shipbuilding Co., Ltd.** – Directed finance, HR, and production integration, introducing ERP systems to enhance organizational performance.



CTO

LEO KIM

Nationality: Republic of Korea

Education: Seoul Venture University

– Master's Degree in Business Administration

Career Background:

- Open AI Forum – President

Leads AI research and innovation strategies, fostering a community-driven AI ecosystem.

Oversees projects integrating AI and blockchain technologies across various industries.

- Korea AI Contents Association – President

Directs organizational operations and policy initiatives, strengthening collaboration between AI startups and the content industry. Promotes digital transformation and industrial innovation through AI-driven solutions.



CFO

MARCUS BAEK

Nationality: Republic of Korea

Education: Seoul Venture University

– Ph.D. in Smart City Convergence Technology Management

Career Background:

- Media Plex – Director

Oversaw strategic planning and operations across entertainment and media sectors. Led organizational management, financial structure design, and partnership development to strengthen the company's growth foundation. Directed content production pipelines and external partnership initiatives.

- United & Co. – Director

Managed overall corporate operations including marketing, operational efficiency, and business expansion strategy. Established a performance-driven management system to enhance organizational vision and execution capability.



CMO

ROXAN CABATAS ESCAPLAO

Nationality: Philippines

Education: University of the Philippines

– Bachelor's Degree in Marketing Management

Career Background:

- Digital Solutions Asia Inc. – Managed digital marketing campaigns for emerging tech brands in Southeast Asia, focusing on social media growth and localized content.
- Kreativ Labs Manila – Led brand identity and performance marketing for AI and blockchain startups, overseeing campaign analytics and creative production.



Developer

WISNU WIJAYA

Nationality: Indonesia

Education: Universitas Mahasaraswati Denpasar

– Bachelor's Degree in Accounting

Career Background:

- PT. Coop World Indonesia – IT Support Specialist
Supported internal IT infrastructure and system operations, handling technical troubleshooting and network maintenance to ensure stable performance.
- PT. Surya Jaya Dewata – Graphic Designer
Created visual designs reflecting brand identity and produced digital content and marketing materials to enhance corporate image.



Web Developer

WIDIASTIKAA GEDE

Nationality: Indonesia

Education: Institut Teknologi dan Bisnis STIKOM Bali

– Major in Computer Programming

Career Background:

- PT. Coop World Indonesia – Web Developer

Designed and implemented corporate websites and internal systems, developing front-end and back-end features to enhance user experience. Provided maintenance and performance optimization for stable service operation.

- PT. Studio Kami Mandiri – Web Developer

Developed customized web solutions based on client requirements, applying responsive design and modern web technologies to improve project quality and efficiency.



Accountant

AGUNG EVI TRIASTUTI

Nationality: Indonesia

Education: Universitas Warmadewa – Major in Accounting

Career Background:

- PT. Coop World Indonesia – Accountant / Financial Analyst

Prepared and analyzed financial statements, developed budgeting and cost management strategies to support business decision-making, and ensured accurate reporting in compliance with accounting standards while managing internal audit processes.



Developer

CHRIS FERDIAN

Nationality: Indonesia

Education: Universitas Gunadarma

– Bachelor's Degree in Management Information Systems

Career Background:

- ICHIGO Inc. / Senior iOS Developer

Led the conceptualization, design, and full development of the Ichigo iOS app from the ground up.

- Finroo / iOS Developer

Developed an interactive real estate feature using Mapbox to visualize property data across the U.S., including custom heatmaps for price and activity intensity visualization.



3D Designer

RUHANA VEGGA AGUSTIAN

Nationality: Indonesia

Education: SMKN 3 CIMAHI – Major in Multimedia

Career Background:

- Imaji Digistudio / Sr. CGI Artist

Produced high-quality 3D visuals and animations, creating visual concepts for advertising and branding projects.

- Target Media Indonesia / Creative and Graphic Designer

Developed graphic design and visual elements for marketing campaigns, including brand and promotional materials.

- MNC Media / Freelance 3D Modeler

Created and textured 3D models for broadcasting and advertising projects.

10. DISCLAIMER

This whitepaper has been prepared to describe the vision, technical architecture, tokenomics, roadmap, and business direction of the Meta HiNT project. It is intended solely for informational purposes and includes the following disclaimers:

10.1 Not an Investment Solicitation

This whitepaper does not constitute an issuance of securities, an investment solicitation, or financial advice. The MTHT token is a utility token designed for use within the Meta HiNT ecosystem and does not guarantee or promise investment returns.

10.2 Limitation of Legal Effect

This whitepaper does not constitute a legally binding contract and its contents are subject to change without prior notice as the project develops. Depending on national regulatory environments and legal requirements, certain services and features may be restricted or adjusted.

10.3 Risk Disclosure

Virtual assets involve high volatility and regulatory uncertainty, and participants must fully understand the financial risks associated. Meta HiNT (MTHT) assumes no responsibility for losses arising from external factors such as technical failures, market conditions, or policy changes.

10.4 Regional Regulatory Differences

Due to differences in national laws and regulations, the acquisition, holding, or use of MTHT tokens may be illegal or restricted in certain jurisdictions. Participants are solely responsible for reviewing and complying with the applicable laws in their respective jurisdictions.

10.5 Uncertainty of Future Plans

The roadmap and business plans described in this document are based on current forecasts and targets, and may change during project execution. Meta HiNT (MTHT) reserves the right to adjust its plans in response to changes in market conditions, technology, or regulatory environments.

[APPENDIX] USER JOURNEY & WORKFLOW (SUMMARY)

A) Connected Vending

• DID Login / Consent → Data Integration → AI Recommendation → Vending / Mall Payment → VC Receipt Issuance → PoH / Rewards → Off-Chain Storage + On-Chain Hash Anchoring

B) Expert Network

• Reservation / Consent → Credential VC Verification → Deposit / Payment → Session (Remote / Metaverse) → Recommendation VC / PoH Issuance → Settlement (Performance-Linked)

[Appendix] Glossary – Standard and Proprietary Terms

- Adaptive Trust Layer (ATL): A trust layer that dynamically adjusts the level of proof and disclosure scope based on context, risk, and jurisdiction, managed via Trust Levels (T0–T4) and Policy Packs.
- Attestation: Signed data verifying facts, actions, or credentials (e.g., PoH activities, license VC).
- BBS+: A signature scheme supporting selective disclosure while reducing linkability risks.
- Consent Ledger: A ledger that records consent, withdrawal, and selective disclosure events.
- DAO: A Decentralized Autonomous Organization executing proposals, voting, and execution fully on-chain.
- DID (Decentralized Identifier): Self-created and managed identifiers without centralized registration (e.g., did:ion, did:key, did:web).
- DPIA / DSR: Data Protection Impact Assessment / Data Subject Rights (access, correction, deletion requests).
- HSM / KMS: Hardware Security Module / Key Management Service.
- Health Twin: A metaverse-based personal health twin UI visualizing indicators, missions, consultations, and consent control.
- IPFS: InterPlanetary File System, used for distributed off-chain data storage.

- Issuer / Holder / Verifier: Roles within the VC ecosystem — credential issuer, holder, and verifier.
- KYC: Know Your Customer (identity verification).
- KYH: Know Your Health, verification based on health status and behavioral data.
- Liveness: Verification of whether a real user is present, preventing deepfake or replay attacks.
- MDE (Multi Data Embedding): An AI technique that embeds heterogeneous data into vectors and fuses them for integrated analysis.
- MiCA / eIDAS 2.0: EU regulatory frameworks for crypto-assets (MiCA) and electronic identification & trust services (eIDAS 2.0, covering VC and e-signatures).
- OIDC4VCI / OID4VP: OpenID-based protocols for VC issuance (VCI) and verifiable presentation (VP).
- OFAC / MTL: U.S. Office of Foreign Assets Control (sanctions/remittance regime) and state-level Money Transmitter License requirements.
- PIPA / GDPR / PDPA / PDPD / CCPA: Representative data protection regulations from Korea (PIPA), EU (GDPR), Singapore (PDPA), Vietnam (PDPD), and California, U.S. (CCPA/CPRA).
- PoH (Proof of Health): A framework for verifying and issuing VCs/attestations that represent health-related beneficial actions and outcomes.
- Policy Pack: A bundle of policies within ATL that defines proof requirements, retention periods, and jurisdictional exceptions for each trust level.
- RAG (Retrieval-Augmented Generation): An AI approach in which models generate responses by incorporating information retrieved from an external knowledge base.
- Revocation / Status List 2021: A global standard for managing the validity and revocation status of VCs.
- SD-JWT / Selective Disclosure: A JWT-based framework for VCs that enables partial claim disclosure.
- Trust Level (T0–T4): ATL-defined levels of proof requirements depending on risk and regulatory context.
- VC (Verifiable Credential): A digitally issued, held, and verifiable credential supporting cryptographic validation.

- VC Receipt: A VC issued as proof of a transaction outcome, such as a purchase or consultation.
- VASP (Virtual Asset Service Provider): An entity providing crypto-asset services, subject to licensing/registration in certain jurisdictions.
- ZK Proofs (Zero-Knowledge Proofs): Cryptographic proofs that verify facts without disclosing the underlying sensitive values.