

HANLONGEVITY

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HANLONGEVITY Utility Token White Paper

A Company-Led Blockchain Project Connecting Bio-Healthcare Technology with a Reward-Based Health & Beauty Ecosystem

TOKEN

HANLONGEVITY | HLV

TOTAL SUPPLY

10,000,000,000 HLV | 10 BILLION TOKENS

VERSION

v2.0 EN

HANLONGEVITY at a Glance

PROJECT DEFINITION HANLONGEVITY connects products, memberships, education, digital services, product verification, and partner benefits through points and a utility token, centered on the bio, health, and beauty businesses directly operated by HANLONGEVITY.

Category	Details
Operator	HANLONGEVITY
Business Foundation	Bio-healthcare technology; health & beauty products and services; Dubai/GCC business platform
Points	HL Point - non-transferable; used for everyday member rewards, discounts, coupons, and tiers
Token	HANLONGEVITY (HLV) - used for memberships, premium services, verification, and partner services
Total Supply	10,000,000,000 HLV (10 billion tokens)
Operating Principle	Demand is driven by actual use of products and services, not by token price

Document Structure

1. Project Overview and the Role of HANLONGEVITY
2. Aptamer Technology and Business Applications
3. Platform Services and the Points/Token System
4. Token Utility Loop and Tokenomics
5. Revenue Model, Roadmap, Regulation, and Risk Management

1. Project Overview

1.1 Vision

Build a global life-care platform that connects bio, health, and beauty services within a single digital ecosystem, where real customer use and partner business activity create demand for the token's utility.

1.2 Mission

1. Integrate HANLONGEVITY products, centers, education, and digital services into a single membership system.
2. Connect aptamer-based biotechnology and research infrastructure to product development, professional education, and B2B collaboration.
3. Separate consumer-facing points from the blockchain utility token to improve usability.

4. Design rewarded tokens to be reused for memberships, services, verification, and partner benefits.
5. Establish a business base in Korea and expand in stages to Dubai and GCC markets.

1.3 Project Principles

Principle	Application
Company-Led	HANLONGEVITY is responsible for business planning, services, reward policies, and partner management.
Real Business First	Products, memberships, education, centers, and B2B services - not token sales - are the core of the business.
Separate Points and Token	Points are used for everyday rewards; HLV is used for premium services and partner functions.
Compliance First	Only functions reviewed for licensing, advertising, privacy, and virtual-asset regulations are introduced in stages.

2. Market Problems and Our Approach

The health & beauty market offers many products and sales channels, but product information, customer rewards, partner benefits, supply-chain history, and personalized services remain fragmented. HANLONGEVITY connects these functions within a single membership ecosystem.

Problem	Current Situation	HANLONGEVITY Approach
Information Gaps	Ingredient, raw-material, manufacturing, certification, and distribution information is fragmented	Provide integrated product history and verification information
Disconnected Rewards	Rewards for purchases, reviews, education, and participation are one-off	Operate points and HLV according to distinct roles
Limited Utility	Few services allow users to reuse reward tokens	Reuse across memberships, education, verification, and partner services
Disconnected Partners	Brands, centers, distribution, and education services operate separately	Connect shared benefits and settlement through the HANLONGEVITY platform
Regulatory Complexity	Bio, medical, data, and virtual-asset regulations overlap	Keep sensitive information off-chain and conduct prior legal review for each function

3. Aptamer Technology and the HANLONGEVITY Business

3.1 What Is an Aptamer?

An aptamer is a single-stranded DNA or RNA molecule selected to bind selectively to a specific target. Through sequence design and optimization, aptamers may have applications across diagnostics,

biomarkers, targeted delivery, product development, professional education, and other bio-healthcare fields.

3.2 Technologies and Infrastructure

1. Aptamer discovery and sequence optimization for target-specific binding
2. Multi-target architecture design capabilities that consider multiple targets
3. Research on carrier fusion, intracellular delivery, and improved stability
4. Bio research infrastructure, including a central research institute, aptamer laboratory, cell culture facilities, and analytical facilities
5. Patent, candidate-material, and research portfolio based on internally provided materials

3.3 Business Applications

Area	Application
Product Development	Planning and technical review for biocosmetic, wellness, and diagnostic-related products
Professional Education	Education programs on aptamer technology, product science, and safe use
B2B Collaboration	Joint planning, technical review, and project management with brands, research institutions, and distributors
Content	Member and professional content that distinguishes technical status and levels of evidence
Data Services	Analysis and improvement using de-identified, aggregated product, customer, and quality data

4. HANLONGEVITY Platform

The platform is not an application for token trading. It is an integrated membership platform for the actual use of HANLONGEVITY products and services.

Service	Core Functions
Products & Commerce	Sale of eligible products, product information, authenticity and supply-chain history, customer support
Membership	Tiers, coupons, limited benefits, priority booking, and partner programs
Education & Events	Bio, health, and beauty education; professional programs; online and offline events
Personalized Services	Product, content, and program recommendations; member reports
Partner Services	Brand onboarding, joint campaigns, verification, B2B analytics, and operational support
Dubai & GCC	Phased integration of local product registration, distribution, education, centers, and customer service

5. Points and Token System

5.1 Why Their Roles Are Separated

Providing transferable tokens for every member activity may complicate the user experience and increase regulatory, tax, and misuse risks. Accordingly, everyday activities use HL Point, while blockchain-based advanced services use HLV.

Category	HL Point	HANLONGEVITY (HLV)
Nature	Non-transferable in-app points	Utility token transferable to external wallets
Earned Through	Purchases, attendance, education, reviews, and surveys	Verified campaigns, partner activities, and program rewards
Use	Discounts, coupons, tiers, and general benefits	Memberships, premium services, verification, education, and partner services
Exchange	No automatic conversion into cash or virtual assets	No fixed exchange rate with points
Eligibility	General members	Eligible users who meet regional, age, KYC, and service requirements

5.2 Member Journey

1. Members use HANLONGEVITY products, education, events, and partner services.
2. HL Points are awarded for purchases, attendance, education, and verified reviews.
3. HLV may be awarded for eligible campaigns and partner programs under separate criteria.
4. Members use points for discounts and coupons, and HLV for memberships, premium services, verification, and education.
5. A portion of spent HLV returns to the reward pool to support the next cycle of member and partner activity.

6. Token Utility and Circular Economy

6.1 HLV Use Cases

1. Access to premium memberships and limited services
2. Personalized reports and advanced digital content
3. Product verification, supply-chain history, and digital proof services
4. Participation in education, events, and professional programs
5. Access to partner benefits, campaigns, and services
6. Settlement support for partner services where permitted by applicable rules

6.2 Circular Utility Model

1. Actual use of products and services occurs.
2. Members and partners receive points or HLV for verified activities.
3. Rewarded HLV is reused for memberships, education, verification, and partner services.
4. HLV received by the platform is reallocated to rewards, partners, operations, and user protection.
5. Future reward budgets are adjusted based on actual usage to prevent excessive token emissions.

Reuse of HLV Received by the Platform	Allocation
Reinvestment in Ecosystem Reward Pool	45%
Settlement with Partners and Service Providers	25%
Operations, Technology, and Security	20%
User Protection and Incident Response	10%
Total	100%

7. Tokenomics

Item	Design
Token Name	HANLONGEVITY
Symbol	HLV (provisional)
Total Supply	10,000,000,000 HLV (10 billion tokens)
Additional Issuance	No additional issuance after initial creation
Maximum Initial Circulation	250,000,000 HLV (2.5%)
Network	BSC

7.1 Token Allocation

Category	Share	Quantity	Release Schedule
Ecosystem Rewards & Service Reserve	45%	4,500,000,000	100M at TGE; remaining 4.4B over up to 60 months
Strategic Partners & Market Expansion	15%	1,500,000,000	6-month cliff, then 36-month vesting
Business Development, Technology, Regulation & Security	12%	1,200,000,000	10M at TGE; remainder over up to 60 months
Team & Core Contributors	10%	1,000,000,000	12-month cliff, then 36-month vesting
Community, Education & Marketing	8%	800,000,000	40M at TGE; remainder over 36 months

Category	Share	Quantity	Release Schedule
Liquidity	5%	500,000,000	Up to 100M at TGE; remainder in stages over 24 months
Strategic Financing	5%	500,000,000	12-month cliff, then 24-month vesting
Total	100%	10,000,000,000	No additional issuance

7.2 Initial Circulation

Purpose	Maximum Quantity
Ecosystem Service Launch	100,000,000
Community & Education	40,000,000
Liquidity	100,000,000
Initial Operations & Security	10,000,000
Team, Partner & Strategic Allocations	0
Total	250,000,000 HLV (2.5%)

8. Business Model

HANLONGEVITY's commercial viability is evaluated based on revenue from products and services provided by the company, not token sales.

Revenue Source	Description
Product Sales	Online, offline, and partner distribution of bio, health, beauty, and wellness products
Membership	Premium benefits, personalized content, reservations, events, and partner programs
Education & Programs	Education and events covering biotechnology, products, wellness, and professional topics
B2B Services	Product planning, technical review, joint business initiatives, brand support, distribution, and operations
Digital Services	Personalized reports, analytics, product recommendations, and partner dashboards
Verification & Supply Chain	Digital verification of product, batch, distribution, and education records
Dubai & GCC	Local product registration, distribution, education, centers, and customer service

RELATIONSHIP BETWEEN REVENUE AND THE TOKEN Revenue from the company's products and services belongs to the company. HLV holders are not entitled to revenue, profits, or dividends. Fiat revenue will not be used to support the token price or automatically repurchase tokens.

9. Technology, Data, and Security

9.1 On-Chain and Off-Chain

Category	Data Stored
On-Chain	HLV balances and transfers; allocation and vesting; reward records; product and document verification hashes
Off-Chain	Member personal information, purchase records, health information, consultation records, raw research data, contracts, and trade secrets

Personal information, health information, and raw research data are not stored directly on the blockchain. Only minimal verification data that cannot reconstruct the original source is recorded on-chain.

10. Implementation Roadmap

Phase	Period	Objective	Key Activities
Phase 1	Months 0-3	Finalize company, business, technology, and rights structure	Legal review of intellectual property, products, partners, data, and token
Phase 2	Months 4-6	Launch HL Point-based services	Validate member, product, membership, education, verification, and recommendation functions
Phase 3	Months 7-12	HLV technology and security pilot	Testnet, audit, vesting, and eligible-user pilot
Phase 4	Months 13-18	Conditional token distribution	Issue and distribute only after completing seven launch gates
Phase 5	Months 19-24	Dubai & GCC expansion	Connect local licensing, products, centers, education, and partner services
Phase 6	Month 25 onward	Global partner expansion	Expand services and products following country-by-country legal review

LAUNCH CRITERIA Even if the scheduled date is reached, public distribution and marketing of HLV will not proceed unless legal review, licensing, security audit, and risk disclosure have been completed.

11. Regulation and Compliance

11.1 Pure Utility Design

1. HLV is not equity, debt, a fund, or a deposit issued by HANLONGEVITY.
2. It grants no rights to company equity, dividends, interest, principal repayment, or revenue/profit sharing.
3. It grants no ownership or economic rights in aptamer technology, patents, candidate materials, or research results.

4. No guarantee is made regarding token price, exchange listing, liquidity, convertibility, or returns.
5. HLV holders have no voting rights over company management or business policies.

11. Conclusion

HANLONGEVITY is a utility-token project centered on HANLONGEVITY's bio, health, and beauty businesses. Its core priority is to make products, memberships, education, verification, and partner services operational first.

Everyday activities are rewarded simply through HL Point, while HLV is used for premium services and partner functions. Rewarded HLV is reused across services, and 45% of HLV received by the platform is reinvested in the ecosystem reward pool to create a circular utility model.

Aptamer technology and bio research infrastructure are used as the foundation for HANLONGEVITY's product development, professional education, and B2B collaboration, but the token does not carry ownership or economic rights in the technology, patents, or research results. This clearly separates the roles of the business and the token.

FINAL OBJECTIVE Build a sustainable utility ecosystem in which growth of HANLONGEVITY's real business and repeated use of services by members and partners create HANLONGEVITY's utility value.

Appendix B. Glossary

Term	Definition
HANLONGEVITY	The utility token name of the HANLONGEVITY ecosystem
HLV	Provisional symbol for HANLONGEVITY
HL Point	A non-transferable point accumulated and used within the app
Aptamer	A single-stranded DNA or RNA molecule selected to bind selectively to a specific target
Utility	Functional use for accessing platform services, using services, verification, and benefits
TGE	Token Generation Event and initial distribution event
Vesting	A method of making team and partner allocations available in stages over a defined period
KYC/KYB	Customer and business identity verification procedures