The Biological Control Plane

Executive Brief

The Problem

The agentic economy is building financial infrastructure for autonomous AI agents at extraordinary speed. Wallets, payment rails, policy engines, and delegated transaction authority are being deployed across networks like Base. But this infrastructure is designed exclusively for digital assets.

No verified bridge exists between autonomous agents and biological capital - the forests, permafrost, soil, marine ecosystems, and agricultural systems that represent the majority of Earth's real economic value. The current bridge is the "PDF Oracle": a human auditor produces a static certificate that financial systems treat as ground truth for years, regardless of how the biology has changed. For autonomous agents operating at machine speed, this is architecturally incompatible.

The result: a multi-trillion-dollar bioeconomy that remains unpriced, unmanaged, and invisible to the fastest-growing segment of the global financial system.

The Solution

KRYONIS has developed the Bio-Capital Classification Standard (BCCS) - a verification, policy, and state-transition protocol that makes biological capital legible to autonomous systems. BCCS is not a marketplace or a certificate. It is a control plane - the mandatory layer between biological reality and digital infrastructure.

Component	Function
BAIN ID	Immutable 21-character Bio-Asset Identification Number. Like ISIN for securities - but for forests, permafrost, soil, and ecosystems.
8-State Engine	Dynamic lifecycle tracking: Registered, Active, Suspended, Migrating, Dormant, Degraded, Depleted, Archived. Captures full thermodynamic reality.
PoPS Consensus	Proof-of-Physical-State: decentralized Validator Nodes cross-reference Oracle claims against satellite and sensor data. Fraudulent claims are algorithmically slashed.
Policy Engine	Machine-readable authorization: what an agent may do with a given bio-asset, in its current state, under what conditions.
API Surface	Standard endpoints for agent wallets, payment rails, insurance platforms, and sovereign registries.

Why Now

Agent infrastructure is being built now. Architectural decisions made in 2026 will be difficult to reverse. If biological capital is not represented from the outset, it will be retrofitted later at enormous cost. Regulatory demand is accelerating: EU Biotech Act, sovereign carbon commitments, biodiversity credit frameworks. Reinsurers (Swiss Re, Munich Re, Lloyd's) lack real-time ground-truth data for biological risk. Parametric insurance requires exactly the continuous verification that BCCS provides.

Market Position

As of March 2026, no existing entity occupies the bio-attestation control plane position. Agent wallet providers (Coinbase, Skyfire, Turnkey) have no biological verification capability. Natural capital initiatives (Open Forest Protocol, Chainlink Climate Oracles) have no agent integration or policy engine. The intersection is structurally empty. BCCS is designed to fill it.

The DePIN Model: $BQRY Token

BCCS is secured and funded through a Decentralized Physical Infrastructure Network (DePIN) on Base (Coinbase L2). The $BQRY token is the protocol's native coordination layer - not a fundraising mechanism, but the mathematical foundation of the trust model.

Function	Mechanism
Oracle Staking	Institutions must stake $BQRY to submit verification data. No fiat fees - pure skin in the game.
Truth Enforcement	Fraudulent thermodynamic data triggers algorithmic slashing. Staked tokens are burned or redistributed.
Agentic Gas	Every AI agent API query pays a micro-fee in $BQRY. Continuous demand scales with bio-commerce.
Deflationary Design	Triple-sink: staking locks supply, slashing burns supply, gas buy-backs burn supply.

Total supply: 1 Billion $BQRY, hard-capped. 45% emitted to Validator Node operators. 20% reserved for Ecosystem Grants to subsidize Founding Oracle onboarding at zero fiat cost.

Capital Formation: Genesis Validator License Sale

KRYONIS raises non-dilutive capital through tiered Validator Node License sales (ERC-721 NFTs on Base). License holders operate verification infrastructure and earn $BQRY rewards.

Tier	Licenses	Price (USDC)	Cumulative
Alpha (Whitelist)	500	$1,000	$500K
Beta (Waitlist)	1,000	$1,500	$2.0M
Gamma (Public)	2,000	$2,200	$6.4M
Delta (Public)	3,000	$3,000	$15.4M
Epsilon (Open)	Dynamic	$3,500+	$20M+

Genesis capital deploys immediately: protocol engineering (Base smart contracts, BAIN ID registry, AI-Agent API), liquidity bootstrapping (Aerodrome/CEX), and Oracle subsidies.

Founding Oracle Program

KRYONIS is inviting seven Founding Oracle Partners - one per primary biological asset class - to become the first accredited verification authorities under BCCS. Founding Partners receive exclusive territorial rights (5 years), Protocol Advisory Board seats, permanent historical designation, and full hardware and $BQRY staking subsidies via Ecosystem Grant allocation. Unlike legacy models, Founding Oracles pay zero fiat licensing fees.

Asset Class	Target Jurisdictions	Status
Permafrost (PFRS)	Russia, Canada, Norway	Active discussions
Forest Carbon (FRCS)	Brazil, Indonesia, Canada	Preliminary contact
Soil Microbiome (SOIL)	Kazakhstan, Australia, India	Exploratory phase
Marine (MARE)	Norway, Indonesia, UAE	Early engagement
Agricultural (AGRI)	Brazil, India, Kazakhstan	Multiple candidates
Genetic (GENE)	Brazil, South Africa, Japan	Methodology phase
Biomass (BIOM)	Russia, Brazil, Sweden	Exploratory phase

Next Step

The Genesis Validator License Sale opens in Q3 2026. Alpha tier (500 licenses at $1,000 USDC) is available exclusively to whitelisted partners. Full protocol documentation - Tokenomics Litepaper, BAIN ID Technical Specification, and Whitepaper - is available at bccs.bio.

The first infrastructure provider to build a verified, agent-operated pipeline for biological assets will capture a foundational position in what could become a multi-trillion dollar bioeconomy. The question is not whether biological capital will be verified for autonomous systems - but who will set the standard.