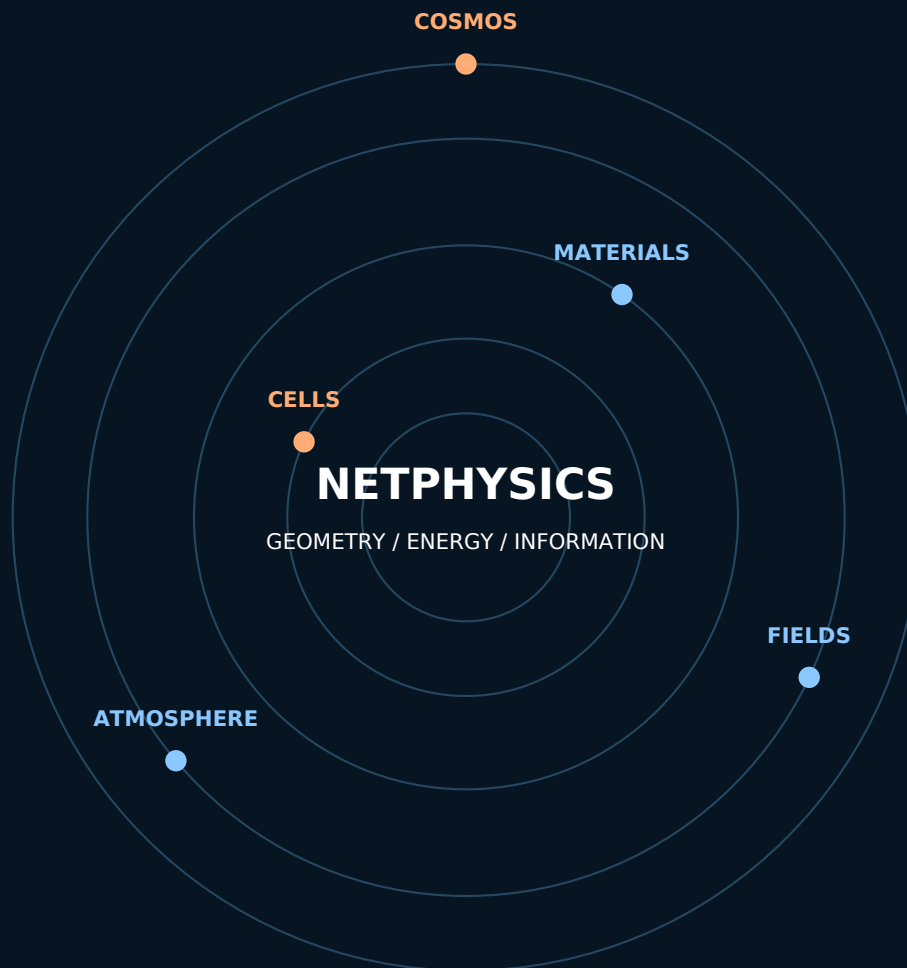


From cells to the universe.

A foundational physics thesis.
Four paths to invention.



Conceptual research scope. Rings are not a calibrated scale or a physical model.

MAXWELLX / WEATHERHILL / KARAM BIOSCIENCE / DEATH X

Christopher Hill | Founder and originator of the NetPhysics framework

Research and venture overview | October 19, 2026

Research ambition and proposed IP strategy. No securities or transaction terms offered.

01 / THE AMBITION

A new account of physical behavior.

The investment thesis begins with NetPhysics. The four ventures are proposed paths from research to application.

NetPhysics is Christopher Hill's research program to challenge how geometry, energy and information are understood across scales. The ambition is to develop a new organizing framework for physical behavior, then build and own specific technologies that make its discoveries useful.

GEOMETRY / HOW STRUCTURE SHAPES WHAT CAN HAPPEN

Investigate whether geometric relationships offer a more useful account of interaction and response across selected physical systems.

RETAINED INFORMATION / HOW A SYSTEM'S PAST CHANGES ITS FUTURE

Identify physical states that retain the effects of interaction, then test whether those states improve prediction and control.

RELATIONSHIPS ACROSS SCALES / WHERE A COMMON DESCRIPTION CAN TRANSFER

Look for fixed, dimensionless relationships that predict new systems, and define the scales and conditions where they fail.

THE SCOPE IS DELIBERATELY LARGE

The research extends from physical organization in cells and materials to questions about cosmic structure. The ambition is to challenge and potentially revise parts of the current physical description. The work must progress through precise, discriminating tests.

THE VALUE PROPOSITION

A useful discovery could become a method for predicting, designing or controlling a physical system. Specific implementations could create products and licensable technology across more than one application. That transfer is an investment hypothesis to test, not an established capability.

A proposed framework with an explicit model and reproducible research tools. A replacement for established physics has not been demonstrated.

02 / THE SCIENTIFIC DIFFERENCE

Geometry. Memory. Scale.

Geometry, physical memory and scaling already have substantial scientific foundations. NetPhysics investigates whether a common framework can add predictive power.

Known starting point	NetPhysics question	Evidence that could matter
Geometry affects modes and interactions.	Can a broader geometric description add useful predictive power?	A predeclared prediction distinguished from a strong conventional model.
Physical systems can retain effects of history.	Can an identified state support a useful common predictive description?	Improved predictions on independent conditions, with physical-state identification.
Some relationships transfer within defined scaling regimes.	Can a fixed mapping transfer to other selected systems?	Prediction of whole held-out systems with a declared range and failure boundary.
Cosmology describes our observable domain.	Could a larger containing or connected system exist?	A coherent dynamical model and a distinguishable observable; neither is yet supplied for Alpha 1.

TWO KINDS OF SUCCESS

An engineering improvement can be commercially valuable without establishing new fundamental physics. A claim to revise fundamental physics requires a stronger result: recover the established successes and derive a distinguishable, empirically supported prediction.

THE LONG HORIZON

Alpha 1 is the framework’s hypothetical parent-system extension. It gives the research a cosmological horizon, but it is not a current device, revenue forecast or experimentally validated explanation.

03 / CURRENT FOUNDATION

An idea with an inspectable starting point.

The present assets support research development. They are not evidence that the wider theory has been proved.

Research foundation	Current scope	Next milestone
Explicit central model v0.2	A defined relationship among geometry, retained state and oscillator response.	Physical-system mapping of the model variables.
Three runnable project packages	Reproducible synthetic comparisons for geometry, memory and cross-scale relationships.	Independent review of a measured-data comparison.
External measured-data intake	1,330 observations across five author-deposited pulse traces, with provenance.	Physical mapping and independent-run design for validation.
Eight hypotheses and research Atlas	A documented question set, source trail and conditions for revision.	A focused lead hypothesis and independent scientific review.

THE BOUNDED MODEL

The normalized oscillator uses displacement q , velocity p and a fading retained state m . Its chosen stiffness law is $k = L^{-2}(1 + \beta m)$; during rest, m decays exponentially. The model deliberately imposes these relationships. It does not derive a universal law or a cosmological theory.

THE ENERGY BOUNDARY

Changing stiffness contributes work to the oscillator. A complete device would also need to account for writing and reading the retained state, actuation, control and losses. The model does not establish net energy generation.

Source: NetPhysics research edition 03, central model v0.2 and memory-benchmark record. The pulse measurements belong to external researchers; their import is not a NetPhysics experimental result.

04 / THE PROOF PROGRAM

A program of decisive experiments.

The proposed program centers on one lead physical system, with comparisons specified before decisive measurements.

01 / Geometry → response

Predict a response change from a controlled change in geometry.

First reproduce the conventional result and qualify measurement uncertainty. Evidence for a new physical claim requires an additional prediction that established models do not already explain.

02 / Write → wait → probe

Test whether an identifiable retained state predicts a later response under new input histories.

Compare against justified passive-relaxation and other state models on independent held-out runs. Predefine meaningful improvement, parameter-identification checks and failure criteria.

03 / One relationship → new systems

Test whether a fixed dimensionless mapping transfers beyond the systems used to develop it.

Hold out whole systems, compare with scale-break alternatives and report the valid range. Similar-looking patterns or a shared fitted exponent alone are insufficient.

INDEPENDENT REPRODUCIBILITY

An independent reviewer can reproduce a meaningful predictive or engineering advantage, inspect its uncertainty and identify the conditions where it stops working. That result supports a bounded claim and the next development decision.

VALIDATION STANDARD

A visually persuasive simulation, a flexible fit, an unexplained electrical response or a similarity between cell and galaxy imagery does not validate the wider framework.

05 / THE INVENTION OPPORTUNITY

Technology that makes discovery useful.

The ambition is a portfolio of specific inventions and implementation assets across scales. These are candidate families, not six existing patents.

Candidate family	What must be demonstrated	Possible protected asset
Adaptive physical systems	A measured internal state changes a useful device response.	Device architecture, physical control method and implementation know-how.
Geometry and field engineering	A configuration produces an application-relevant performance advantage.	Specific apparatus, interfaces, control and calibration.
Biological-electrical interfaces	A reproducible biological contribution supplies a useful measurable function.	Integrated device, interface materials and operating method.
Cellular measurement and control	An intervention or assay connects physical state to useful cellular function.	Qualified assays, engineered implementations and supporting data rights.
Preservation and information systems	A technical method preserves, verifies or recovers defined material or records.	Technical workflows, integrations and authorized software assets.
Prediction and design tools	A model improves a specified engineering prediction or design decision.	Original software, calibrated model implementations and permitted datasets.

Protection may combine appropriate patent claims, confidential know-how, original software and documented data rights. Laws of nature and abstract ideas themselves are not patentable; qualifying practical implementations may be eligible, subject to the other patent requirements. [S10]

06 / PROPOSED RIGHTS ARCHITECTURE

A common research base. Clear application rights.

Our proposed IP strategy combines core technology assets with application-specific rights. Legal arrangements remain to be finalized.

CORE RESEARCH AND IMPLEMENTATION ASSETS

The proposed asset base includes original code, technical methods, invention disclosures, experimental results and licenses. Asset assignments would identify creators, owners and the rights held by each participating entity.

Proposed rights layer	Purpose
Designated core IP owner	Ownership or licensing of assigned core assets, with responsibility for protection, maintenance and licensing. The entity and its capitalization remain to be selected.
Application-specific rights	Defined commercialization rights for each venture, covering field of use, exclusivity, territory, milestones and sublicensing.
Improvements and new inventions	Agreed ownership of future improvements and jointly created work, including any rights shared with the core or other ventures.
External contributors and customers	Agreements covering background IP, newly developed assets, data use and publication. Website contributions do not automatically transfer ownership.

CLEAR OWNERSHIP. DEFINED RIGHTS.

Our objective is a transparent chain from invention to commercial use: identifiable ownership, defined licensing economics and clear obligations for each venture.

NetPhysics names the research framework; a separate parent company has not been established by this overview. An investment in one entity gives only the rights established in its transaction documents.

07 / PHYSICAL SYSTEMS & ENERGY

MaxwellX

Living solar energy. Designed for local independence.

APPLICATION FOCUS

MaxwellX is the proposed engineering path from the NetPhysics thesis to devices: geometry, fields, material interfaces and living-energy systems that can be built and measured.

RESEARCH BRIDGE

Test whether a geometry or identifiable retained state gives an instrument or energy interface a reproducible advantage. Helios One is an adjacent experimental program; its reported signal does not validate the NetPhysics model.

TECHNOLOGY HORIZON

Helios One aims toward an eight-foot-diameter circular living-energy tank: capture sunlight, collect electricity, store it and supply off-grid loads. Lower total losses than a defined alternative are a design goal, not a measured result.

POTENTIAL IP

Candidate invention families: geometry-dependent field structures; material interfaces with measurable retained response; integrated biological-electrical devices; physical control and calibration methods. Protect the actual architecture and implementation that produces the demonstrated advantage.

DEVELOPMENT MILESTONES

Identify a physical substrate, compare a declared model with strong conventional alternatives, and reproduce its performance. For Helios, resolve the biological contribution and demonstrate energy delivered to a load with complete accounting.

COMMERCIAL ROUTE

Potential customers include instrument manufacturers, research organizations and developers integrating a validated physical component. Revenue could come from instruments, modules, sponsored development and application-specific licenses.

Current stage: Helios One has a FieldLab-reported initial electrical response from October 15, 2026. Repeatability, biological attribution and useful power remain unresolved.

<https://maxwellx.com/helios/first-result/>

08 / ATMOSPHERE & WATER

Weatherhill

Bring the framework into moving air.

APPLICATION FOCUS

Weatherhill is the atmospheric application path: understand and influence water in the air through geometry, fields, flow and material interfaces.

RESEARCH BRIDGE

Use controlled experiments to test how configuration and physical history affect droplet capture, optical extinction and energy cost. A NetPhysics connection becomes meaningful only through a specified prediction and measured comparison.

TECHNOLOGY HORIZON

Purpose-built atmospheric instruments, collector architectures, sensor-test environments and control systems. Successful technology could serve airports, water-constrained sites and other infrastructure operators.

POTENTIAL IP

Candidate invention families: integrated collector and flow geometries; field-control arrangements; synchronized optical and water metrology; validated control methods and system integration. Instrument data and operating know-how could strengthen implementation and licensing.

DEVELOPMENT MILESTONES

Qualify FogLab, reproduce controlled comparisons and measure useful effects beyond the collector. A water-collection result and a visibility result must be evaluated separately, with airflow and whole-system energy included.

COMMERCIAL ROUTE

Potential routes include instruments, qualified testing, system integration and technology licensing. Readiness studies can establish operator needs and relationships while the hardware research advances.

Current stage: FogLab is in development. Airport and infrastructure scopes are proposed; a deployed Weatherhill fog-clearing technology has not been established.

<https://weatherhill.com/programs/airports/>

09 / CELLULAR ORGANIZATION & FUNCTION

Karam Bioscience

Ask what physical organization means for a cell.

APPLICATION FOCUS

Karam is the cellular application path: investigate how organization, physical state and biological history relate to useful cell function, identity and restoration.

RESEARCH BRIDGE

Define a measurable cellular state and a specific functional outcome. Test whether a proposed physical description adds predictive value beyond appropriate biological explanations. Material memory and biological memory are not assumed to be interchangeable.

TECHNOLOGY HORIZON

Assays, experimental platforms and, where research supports them, precisely defined interventions or engineered systems. The goal is useful function with evidence of identity and safety.

POTENTIAL IP

Candidate invention families: original assay architectures; methods that measure or control a defined cellular response; qualifying engineered systems; validated combinations of experimental method and analysis. Natural biology and external research findings do not become proprietary simply through interpretation.

DEVELOPMENT MILESTONES

Select a bounded model system, qualify the measurements and reproduce a functional result with appropriate controls. Establish the mechanism, durability, identity and safety limits before stronger biological or therapeutic claims.

COMMERCIAL ROUTE

Potential routes include research tools, assay services, sponsored development and licensing of qualified biological technologies. Evidence services support discovery and customer learning; the longer-term thesis is an invention portfolio.

Current stage: Karam currently presents research tools, an evidence Atlas and proposed service and study directions. No Karam treatment or general human age-reversal result is established.

<https://karambioscience.com/products/>

10 / PRESERVATION & PHYSICAL INFORMATION

Death X

Preserve what future science may need.

APPLICATION FOCUS

Death X is the preservation application path: retain selected biological material and permissioned life records, while investigating the physical requirements for preserving useful information through time and transformation.

RESEARCH BRIDGE

Translate broad information questions into measurable preservation endpoints: specimen quality, record integrity, provenance and access. A stored record, a living cell and a representation of a person require different evidence.

TECHNOLOGY HORIZON

A coordinated biological and digital archive, followed by carefully evaluated representation systems. Longer-horizon questions about identity and continuity remain research, not a promised service outcome.

POTENTIAL IP

Candidate invention families: preservation and recovery workflows where a novel technical method is developed; specimen-to-record integration; integrity and provenance systems; permissioned representation and evaluation methods. The objective is technology ownership, with clients' material and records governed by explicit rights.

DEVELOPMENT MILESTONES

Demonstrate archive integrity, portability, permission controls and continuity arrangements. Qualify biological providers and measurable recovery endpoints before enrollment. A scientific claim about personal memory needs its own mechanism and test.

COMMERCIAL ROUTE

Potential routes include archive services, administration, provider integrations and licensing of suitable preservation or representation tools. Sustainable custody obligations must be included in the operating model.

Current stage: The Archive is in development and enrollment is closed. Preservation does not establish memory transfer, continuity of consciousness or revival.

<https://deathx.me/programs/archive/>

HELIOS / THE ENERGY AMBITION

Sunlight. Storage. A home beyond the grid.

An eight-foot circular tank is the proposed full-scale form for Helios One. Our goal: capture sunlight in a living system, store the energy, and ultimately power a home beyond the grid.



AI-generated design concept. Not the present apparatus or a demonstrated power system.

A NEW APPROACH TO HARVESTING ENERGY

The ambition is to combine a living photosynthetic medium, electrical collection interfaces and storage into a maintainable local energy system. Sunlight supplies the primary energy; the living system converts part of it. Usable output depends on collection, power conditioning, storage and the energy needed to operate the system.

THE OFF-GRID HORIZON

The development path begins with sustained power for small loads, then progresses toward larger autonomous systems only as measured performance supports them. Household and infrastructure applications remain long-term goals; there is no established Helios wattage, storage capacity or household autonomy rating.

Explore the animated system and energy model: maxwellx.com/helios/off-grid/

HELIOS / PROPOSED ARCHITECTURE

Capture. Convert. Collect. Store. Deliver.

One energy balance connects the biology to useful electricity. All stages remain subject to experimental qualification.

Stage	Proposed function and measurement
1 / Incident sunlight	Measure irradiance and spectrum over the receiving aperture. Sunlight is electromagnetic radiation; it must not be counted twice as separate light and electromagnetic inputs.
2 / Living conversion	Photosynthetic chemistry supports energized electron transfer and chemical reserves. Absorption is not equivalent to electrical conversion. Record culture health, temperature and light penetration.
3 / Electrical collection	Anode, cathode and ionic paths complete a circuit. Cell-to-electrode transfer, reaction kinetics and internal resistance govern extractable power. Loaded voltage and current determine output.
4 / Conditioning and storage	Low-voltage collection feeds a qualified converter and initially a separate battery or capacitor. Record input/output energy, leakage, self-discharge and usable capacity. Biological reserves are a separate research question.
5 / Useful power	Regulated DC or an inverter supplies a defined load. Subtract pumps, mixing, monitoring, thermal management and all imported power. Off-grid operation requires time-resolved supply and demand balance.

THE RESEARCH FRONTIER

External studies support low-power biological harvesting [H1], decoupled collection and delivery [H2], and improved biological interfaces [H3, H4]. These are research directions for Helios, not transferred performance claims. Ambient RF or other fields would need separate measured input and transducer tests [H9].

HELIOS / ENERGY AND EFFICIENCY

The tank has an energy budget.

Illustrative engineering arithmetic for an eight-foot-diameter top aperture. No value below is a Helios measurement or forecast.

Quantity	Illustrative value / boundary
Diameter and aperture	8 ft = 2.4384 m; top aperture = $\pi \times (2.4384 / 2)^2 = 4.67 \text{ m}^2$.
Incident energy	At an assumed 5 kWh/m ² /day: 23.35 kWh/day of sunlight. At 1,000 W/m ² : 4.67 kW incident, before conversion.
1% conversion scenario	0.234 kWh/day collected DC. With 90% conditioning, 90% storage round-trip and 92% inverter efficiency: 0.174 kWh/day before auxiliaries.
Operating energy	A continuous 5 W support load consumes 0.120 kWh/day. Net scenario: about 0.054 kWh/day, or 2.25 W averaged over 24 hours.
5% conversion scenario	With the same downstream assumptions: about 0.750 kWh/day net, or 31.3 W average. This efficiency is an unproven scenario.
Night storage example	100 W for 12 hours requires 1.2 kWh delivered. At 80% usable depth and 92% inverter efficiency: at least 1.63 kWh nominal storage, before aging and reserve margin.

LOWER LOSS IS A SYSTEM-LEVEL GOAL

The comparison must use the same incident resource, delivered load, operating duration and storage service. Local generation may reduce grid transport losses; EIA reports about 5% U.S. transmission and distribution losses for 2018–2022 [H7]. That benefit cannot by itself establish better overall solar-to-load efficiency.

Increasing culture depth does not increase top-aperture sunlight. Shading, optical attenuation, electrode area, transport distance and maintenance can prevent proportional scale-up. Larger collectors or concentrators require their own measured aperture and loss accounting.

HELIOS / CLIMATE AND DEVELOPMENT

The goal is useful energy with a smaller footprint.

Climate benefit depends on what Helios actually displaces and the emissions required to build, operate and retire it.

A ROUTE TO LOWER EMISSIONS

A qualified system could replace fossil-powered remote loads, support local resilience and reduce fuel deliveries. The relevant measure is life-cycle greenhouse-gas emissions per useful kWh, including tank materials, electrodes, nutrients, water treatment, control power, storage replacements and end of life [H8].

CARBON UPTAKE AND CARBON REMOVAL

Photosynthetic carbon uptake is not automatically permanent removal. Respiration, decay or processing can return carbon to the atmosphere. The first climate proposition is displaced higher-emission electricity; any removal claim needs a separate carbon balance, retention period and verified fate.

Development milestone	Required evidence
Biological attribution	Repeated loaded output against matched medium-only, nonliving and illumination controls; corrosion and stored chemical energy accounted for.
Net useful energy	Time-integrated voltage × current at the load, with all auxiliary inputs and initial/final storage states recorded.
Reliable operation	A specified load through day/night cycles; quantified downtime, culture stability, maintenance and environmental range.
Competitive performance	Matched solar-plus-storage comparison for delivered energy, reliability, cost, footprint and life-cycle emissions.
Eight-foot pilot	Measured scale-up before any household autonomy claim; containment, electrical isolation, storage protection and safe service access.

Research references H1-H10, technical assumptions and the interactive calculator are published with the Helios off-grid chapter. The reported October 15 response is an early project milestone, not a net-power demonstration [H10].

Research sources and full technical explanation →

11 / USE OF CAPITAL

From framework to protected capability.

Capital would support the lead research program and its translation into a useful application, with measurable milestones at each stage.

01 / Lead hypothesis

The first phase would define a specific prediction, its strongest conventional alternative and decisive measurement criteria for one lead physical system.

Milestone: a technical specification and preregistered comparison.

02 / Physical validation

The experimental phase would qualify apparatus, collect independent runs and preserve raw records, with analysis of uncertainty, mechanism and repeatability.

Milestone: a reproducible result or a documented basis for revision.

03 / IP development

The IP program would assess contributors, prior art, disclosure history and ownership, with protection decisions preceding enabling disclosure where appropriate.

Milestone: an evaluated invention disclosure, rights schedule and protection decision.

04 / Application development

The first application would pair the demonstrated effect with a specific customer need, evaluated against performance, reliability, cost and resource requirements.

Milestone: a qualified prototype and commercial development decision.

05 / Commercial expansion

A successful application could advance through a product, license or partnership. Expansion into another domain would depend on supporting evidence and rights.

Milestone: commercial agreements and measurable adoption.

Budget workstreams: independent scientific review; experimental engineering and metrology; specialist staff; software and reproducibility; IP and rights work; application validation. The fundraising amount and allocation remain subject to a costed operating plan.

12 / THE BUSINESS LOGIC

One discovery could open more than one market.

The proposed strategy combines foundational research with application-specific development and commercial accountability.

WHERE VALUE COULD ACCRUE

A validated physical effect may support a component, instrument or control method. A reproducible model may support a design tool. Application evidence can support product sales, development agreements or licenses. Each route requires a buyer, clean rights and an economical delivery model.

Path	Potential revenue mechanism	Commercial requirements
Products	Instruments, modules and specialized systems.	Reproducible performance, reliability and manufacturing or delivery economics.
Licensing	Application rights to a specific technology.	Defensible rights, useful claims, transfer materials and a partner able to deploy it.
Sponsored development	A partner funds a defined technical outcome.	Agreed deliverables, background/foreground IP terms and accountable execution.
Recurring platforms	Maintained research, readiness or archive systems.	Customer retention, service economics and sustainable operating obligations.

FOUR APPLICATION MARKETS

They define different applications through which research could become useful. Their role is to select customer problems and prove fit. A result in one domain does not automatically validate another, and correlated scientific risk remains.

COMMERCIAL FOCUS

Services can support customer learning and selected revenue. The central thesis is the development and ownership of technology arising from the foundational research program. The development focus is work that improves prediction, demonstrates a capability or creates a defensible application asset.

13 / DEVELOPMENT STAGE AND RISKS

A frontier research opportunity.

This is an early research and venture-development opportunity, not a claim of an already proved physics breakthrough.

Area	Current status
Scientific validation	The broader framework remains a proposal; the explicit oscillator is a bounded model. A discriminating empirical result remains to be established.
Intellectual property	The IP roadmap describes candidate assets. Patent filings, assignments, licensing rights and freedom to operate remain unverified.
Research leadership	Christopher Hill is founder and originator of the framework. Technical team appointments and independent review arrangements remain to be finalized.
Commercial development	Customer demand and commercial agreements remain development milestones. No revenue, customer count, valuation or investment return is claimed.
Principal risks	Scientific failure; known physics explaining results; poor cross-domain transfer; weak patent position; specialist capacity; capital needs; long development cycles and regulatory obligations.
Financing	Issuer, security, amount, investor rights and approved use of funds remain to be defined in appropriate transaction documents.

The proposed funding approach ties each stage to measurable results, with revision or termination where evidence does not support continued work. Useful technologies may also emerge within established physics.

14 / SOURCE RECORD AND CONVERSATION

Start with the thesis. Examine the work.

Prepared October 19, 2026. Company pages are project statements; they do not constitute independent validation.

S1 / NetPhysics: proposed framework

S2 / NetPhysics: central model v0.2

S3 / NetPhysics: hypothesis register

S4 / NetPhysics: measured-data intake and memory benchmark

S5 / NetPhysics: cross-scale comparison

S6 / MaxwellIX: Helios One first-result report

S7 / Weatherhill: airport application program

S8 / Karam Bioscience: research and service directions

S9 / Death X: archive program

S10 / USPTO: patent subject matter eligibility

S11 / USPTO: provisional applications and disclosure

S12 / SEC: general solicitation

Research basis: NetPhysics research edition 03 and central model v0.2. The IP families and rights architecture are proposed strategy, not reported discoveries. AI assisted synthesis, writing and design.

THE NEXT CONVERSATION

Discuss the lead hypothesis, the first independently reviewable experiment, the application it could enable and the rights needed to commercialize it.

maxwellx.com/contact/