

QUANTUM PRIVACY NETWORK

A Unified Solution to the Calls to Action of E.O. Wilson, King Charles III, and Pope Leo XIV

The Creation · Terra Carta · Magnifica Humanitas

Three independent multi-decade calls to action — E.O. Wilson's 2006 appeal, King Charles III's 2021 Terra Carta, Pope Leo XIV's 2026 Magnifica Humanitas — converge on the same architectural specification.

THE CONVERGENCE

Three calls to action. Three decades. One unified solution.

SCIENTIST

E.O. Wilson · The Creation: Appeal to Save Life on Earth

2006 · 2007 · 2016

Appeal to save life on Earth.

Science and religion must join forces.

Encyclopedia of Life (2007 TED Prize).

Half-Earth (2016) as biological preservation threshold.

E.O. Wilson Foundation board: four Nobel Prizes (Kandel, Nurse, Varmus, Watson).

SOVEREIGN CONVENER

King Charles III · Terra Carta: Sustainable Markets Initiative

2020 · 2021

Sustainable Markets Initiative +

Terra Carta — a Magna Carta for Nature.

"Fundamental rights and value to Nature."

Commonwealth 56 countries endorsement (2022). C40 Cities 96 cities support.

Mobilize trillions through default-sustainable orientation.

MAGISTERIUM

Pope Leo XIV's 1st Encyclical: Magnifica Humanitas

2026

Encyclical on human dignity and integral ecology in the AI age. §109: "social justice must shape design from the outset."

Plural governance, subsidiarity at every layer, data as common good, integral ecology as non-negotiable.

T H E A I I N D U S T R Y I T S E L F

The architects of the AI revolution have acknowledged the gap. None of them claims to have an architecture that closes it.

Six independent acknowledgments — from the people building this — that the safety, alignment, and societal-disruption challenges are real, unsolved, and structurally beyond what any single lab can resolve.

Geoffrey Hinton

Turing Award · Nobel Prize 2024 · former Google

“These models need private data. And we do not have architectures that can safely handle it.”

“It is hard to see how we prevent these systems from taking control.”

Yoshua Bengio

Turing Award · “Godfather of Deep Learning”

“We do not know how to align future AI systems with human values. We are not close.”

“The risk of catastrophic misuse or loss of control is real. Very real.”

Demis Hassabis

Nobel Prize 2024 · CEO, Google DeepMind

“We are building increasingly powerful systems, but we don’t yet know how to keep them safe.”

Sam Altman

CEO, OpenAI

“We need a breakthrough in alignment... we don’t have it yet.”

“UBI is not enough. People need agency. People need dignity. We do not yet have the right societal framework for what’s coming.”

Satya Nadella

CEO, Microsoft

“There is no global alignment architecture for AI. We need one.”

“The one biggest rate limiter to the power here will be how our legal infrastructure evolves... tech capability alone won’t matter.”

Chris Olah

Co-founder, Anthropic · at the Vatican, May 25, 2026

“AI development is concentrated in a handful of wealthy nations. How can we ensure the gains of AI are shared globally? We do not have a mechanism for this. It is an unsolved problem.”

These are architects of the AI revolution — repeating the same truth: we are accelerating toward an intelligence that exceeds our capacity to govern it. The convergence is no longer theoretical. The QPN is the only known architecture that closes the gap they have publicly named.

WHY THIS MATTERS

The shared diagnosis: three problems are symptoms of one underlying disease.

Each call diagnoses the same structural failure:

Markets externalize Nature

Conventional pricing treats ecological stewardship as cost-bearing externality. Conservation depends on charity that cannot reach Half-Earth scale.

Politics cannot mobilize trillions

Regulatory mechanisms are too slow, too fragmented, too vulnerable to electoral cycles. The encyclical §5 names this directly.

Voluntary ethics insufficient

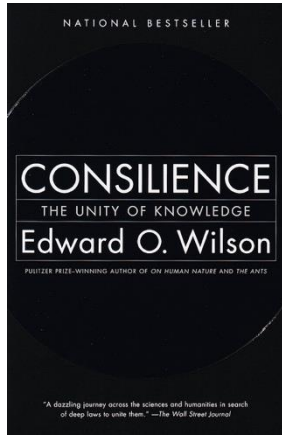
Magnifica Humanitas §107: "those who control AI will impose their own moral vision... A more moral AI is not enough if that morality is determined by a few."

WHAT'S NEEDED

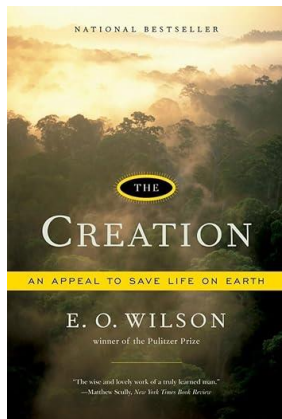
A protocol that prices ecological and humanitarian outcomes via cryptographically enforced resource-level invariants — across heterogeneous regulatory regimes.

*Not policy commitments. Not ESG overlay. Not voluntary corporate ethics.
Design-time embedding at the protocol layer of digital coordination.*

Wilson's moral case — and the transformational architecture that answers it.



Consilience: The Unity of Knowledge (1998)



The Creation: An Appeal to Save Life on Earth (2006)

WILSON'S THESIS • 1998

The natural and human sciences must unify into a single explanatory frame. Politics, economy, social behavior, nature — these are interdependent and cannot be understood in isolation. The gap between technical capability and unified governance is the gap through which civilizations destroy themselves and the biosphere they depend on.

"We have a moral duty to achieve this understanding."

WILSON'S APPEAL • 2006

In *The Creation*, Wilson broadens his call beyond science: science and religion must join forces to save life on Earth. The convergence we now see — Wilson, King Charles III, Pope Leo XIV — answers exactly that appeal, in three independent vocabularies.

THE ARCHITECTURAL ANSWER

Consilience realized as a protocol-level substrate. The Consilient Accelerator carries the universal core services and unified governance Wilson called for; the Proof of Trust Accelerator is the discipline that makes Premium-aligned governance verifiably trustworthy across organizational boundaries via Quantum Genomes — so Trust Authorities and Resources can be safely pooled, reused, and recombined on a global scale, forever.

The EP3 Sustainable Markets Accelerator is the application of consilience Wilson asked for: saving of life on Earth.

THE ARCHITECTURAL ANSWER

The QPN is the protocol substrate that answers all three calls.

The convergence is not aspirational. Each property the calls require maps to a specific QPN architectural element.

Design-time embedding (MH §109)	→ Quantum Genome / Quantum DNA inheritance
Plural governance (Wilson + MH §26, §64)	→ UTM Pluralism; multi-Trust-Authority architecture
Subsidiarity at every layer (MH §68–72)	→ Three trust scopes; Accelerator Tier 1–4 structure
Data as common good (MH §108)	→ Universal Ownership; cap-reverted resources → EP3 Trust
Nature's fundamental rights (Terra Carta)	→ Nature Premium as first-class UTM dimension
Mobilize trillions (Terra Carta + Half-Earth)	→ EP3 Nature & Humanity Trust: \$5.25T/yr by 2045
Science + religion join forces (Wilson)	→ Faith-Anchored Ecological Stewardship initiative
Encyclopedia of Life knowledge substrate	→ Trust Authorities + Resource Pools for species data

The E.O. Wilson lineage runs directly into the QPN

- 1998** • E.O. Wilson publishes *Consilience: The Unity of Knowledge*.
- 1999** • Jonathan Hare renames his company “Consilient” to reach Ed Wilson. First meeting at Harvard – they agree to launch a foundation.
- 2006** • Wilson publishes *The Creation: An Appeal to Save Life on Earth* — calling on science and religion to join forces to save the biosphere.
 - Wilson reconnects with Hare at Aspen Ideas Festival in July, introduces him to Jay Short, founding CEO of the E.O. Wilson Biodiversity Foundation.
 - Wilson wins TED Prize, tells Hare his wish is for an *Encyclopedia of Life*. Hare proposes the “Consilience Initiative” to enable it.
 - E.O. Wilson, Harold Varmus, Jeffrey Sachs, Jay Short, Charles Smith, and Jonathan Hare visit Google in Dec 14-15 for Summit to discuss TED Wish.
- 2007** • Jay Short and Jonathan Hare of EOWF meet with Microsoft (Lili Cheng and Jim Karknias) and Gates Foundation to discuss Consilience Initiative.
- 2013** • Last meeting between Hare and Wilson at Herbst Theatre in SF — Wilson “passes the baton” to Hare, who promises to never give up on the mission.
- 2016** • Wilson publishes *Half-Earth: Our Planet's Fight for Life* — the quantitative threshold for safeguarding the great majority of species.
- 2021** • Edward O. Wilson passes away at 92. December 26, 2021. His mission to save life on earth lives on.
- 2024** • *Consilient Accelerator* & *EP3 Sustainable Markets Accelerator* named in honor of E.O. Wilson.

The structural argument

Hare's recommendation to Ed Wilson:

solve the general case, serve humanity first, and nature will be saved.

The QPN is the exact breakthrough that Adam Bosworth said would be necessary to enable Wilson’s TED Prize wish at the EOWF-Google summit in December 2006. Peter Norvig agreed, saying it would take 10-20 years and break-through innovation.

What the Consilience Initiative proposed in 2006:

- Self-funding open information ecosystem across disciplines
- Data interchange across disparate systems & organizations
- Identity & reputation verification across organizations
- Distributed, fine-grained access control across systems
- Anonymity and privacy protection for sensitive data
- Explicit data ownership and rights management
- Information markets for productive curation & reuse

The Terra Carta & Sustainable Markets Initiative brings the largest pre-organized cascade surface.

56

Commonwealth countries

2022 Heads of Government endorsement

96

C40 Cities

global mayoral coalition affirmed

\$Tn

Mobilization mandate

SMI's "trillions of dollars required"

1

Foundational charter

Terra Carta = Magna Carta for Nature

King Charles's Sustainable Markets Initiative Mission Statement

“For Nature, People, and Planet. Together, we seek to mobilize the trillions of dollars required to achieve a sustainable future. Investment at this scale requires global systems-level change with a default sustainable orientation across markets, industries and supply chains.”

This is — almost word-for-word — the QPN Nature Premium thesis. Default sustainable orientation as a protocol-level invariant.

The encyclical specifies the implementation properties. The Quantum Privacy Network supplies them.

Pope Leo XIV (2026) explicitly disclaims the technical mechanism — and specifies what an adequate one must do.

§109	<i>social justice must shape design from the outset</i>	→	Quantum DNA inheritance at network formation
§107	<i>morality cannot be determined by a few</i>	→	Faith & Tradition Cascade; multi-anchor Trust Authority architecture
§68–72	<i>subsidiarity preserved at every layer</i>	→	Three trust scopes; Accelerator Tier 1–4
§74–75	<i>solidarity creating communities, not masses</i>	→	PPN participation; Community Accelerators
§108	<i>data ownership as a common good</i>	→	Universal Ownership; cap-reverted resources to EP3 Trust
§43, §76	<i>integral ecology coupling people + planet</i>	→	Nature Premium + Humanity Premium operating together
§226	<i>multilateral coordination complementing institutions</i>	→	Sovereign Accelerator Three-Pathway framework
§199	<i>civilian protection in any application of force</i>	→	QPASH; Resource-Bound Existence for AI agents

Eight Accelerators on a consilient foundation.

Two foundational Accelerators incubate the universal core. Six initial domain Accelerators apply it.



★ *Dedicated to E.O. Wilson*

LAYERED ON A UNIVERSAL FOUNDATION

Consilient Accelerator
Universal foundational services and unified governance. Eight Governance Premiums + two Adaptive Premiums; Quantum DNA inheritance; Universal Ownership; Unified Trust Model pluralism.

Proof of Trust Accelerator
Independent continuous certification. Resources and Trust Authorities verified as aligned with the Premium framework — so they can be safely pooled and reused across organizational boundaries.

WHAT THE QPN DELIVERS

The QPN delivers what the three calls each independently require.

Nature Premium

- First-class governance dimension of the UTM.
- Carbon intensity, water use, toxicity, biodiversity indicators incorporated into Proof-of-Trust verification & Quantum Reputation.
- Resources causing ecological harm face reduced matching.

EP3 Nature & Humanity Trust

- Protocol Allocation of $\geq 70\%$ of Exchange Root proceeds.
- \$5.25T/year by 2045 (~120x current global humanitarian aid)
- \$22T/year by 2060 (~500x) under P50 median projections:
- Largest perpetual public-benefit endowment in history by far.

Quantum DNA inheritance

- Premium framework cryptographically embedded in every Trust Block.
- Propagates through Resource Derivative lineage.
- Not policy commitments reversible by political or corporate decision.

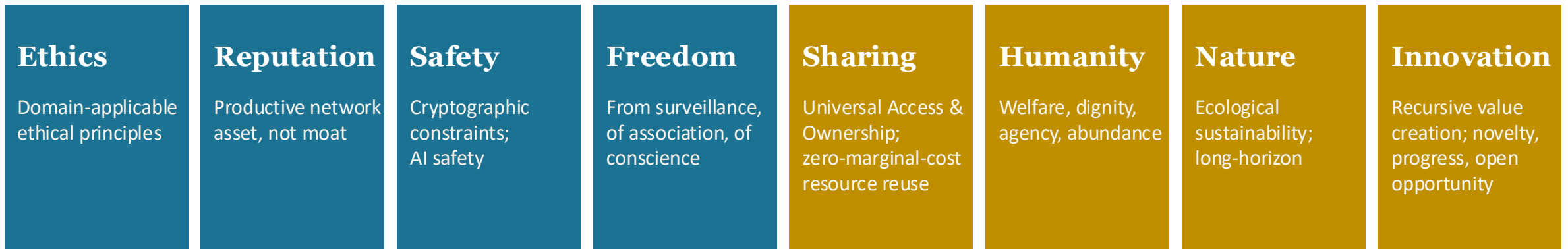
Unified Trust Model Pluralism

- Multiple Trust Authorities (science, sovereign, faith-tradition) operating in parallel.
- No single institution controls.
- Each tradition authors its own Trust Taxonomy.
- Market discipline selects through use.

THE PROLIFERATION PROPERTY

Civil-liberties-supporting governance propagates on market incentives.

Premiums are not soft policy commitments. They are cryptographically-enforced inheritance properties propagating through Trust Block lineage — a derivative that conflicts with Governance and Adaptive Premiums is cryptographically distinguishable from an aligned derivative and will not propagate due to selection pressure.



+ Two Adaptive Premiums (Proportionality, Balance) governing allocation under competing claims.

The Premium framework operationalizes Magnifica Humanitas §25's "multifaceted polyhedron": multiple Trust Authorities express the same Premium dimensions through tradition-specific Trust Taxonomies. Market discipline determines which taxonomies accumulate signal density through reuse.

CURRENT STATE

The Sustainable Markets Accelerator already exists. Already dedicated to Ed Wilson.

16

MEMBERS

11

AFFILIATES

2023

OPERATIONAL SINCE

Named affiliates include: Milliman · Pro Natura International · Palm Global Technologies · Teal Nature · WebShield

What this Accelerator already operationalizes:

- Nature Premium as a first-class governance dimension of the Unified Trust Model
- Tokenization of Nature-Based Assets (carbon sequestration, biodiversity outcomes, ecosystem services, water stewardship, regenerative agriculture)
- Trust Authorities and Trust Taxonomies focused on environmental sustainability
- Quantum Rating Schemes measuring ecological impact across Exchange Networks
- Indigenous and rural community support — rewarding stewards of natural environments through economically rewarded participation

One new sub-Accelerator + two named sub-initiatives.

NEW SUB-ACCELERATOR

Terra Carta & Half-Earth Stewardship

- Explicit Terra Carta charter adoption + signatory recruitment
- Half-Earth quantitative targets + biodiversity verification
- Encyclopedia of Life as flagship Trust Authority + Resource Pool
- Commonwealth + C40 sovereign-coordination pathways
- E.O. Wilson Biodiversity Foundation as anchor Trust Authority

SUB-INITIATIVE

Smallholder Stewardship

- Operates within Sustainable Markets + Lokahi, Healing Fields pattern
- Anchored by Palm Global Technologies, IIMSAM, Pro-Natura, Peace for Life, Teal
- Holy See Dicastery for Culture and Education partnership
- Smallholder farmers, rural ecological stewards across Africa, Latin America, Southeast Asia
- Converts agricultural + ecological stewardship to PNX-settled economic positions

SUB-INITIATIVE

Faith-Anchored Ecological Stewardship

- First expression of the Faith & Tradition Cascade — operationalizes Wilson's "science + religion join forces" as protocol
- Laudato Si' Movement, GreenFaith, Islamic Foundation for Ecology, Bhumi Project, Eco-Sikh, Buddhist Climate Action Network
- Each tradition: own Trust Authority, own Trust Taxonomy
- Tradition-specific Community Accelerators in parallel
- Shared Premium framework aligns economic gradients

FOUNDING ANCHOR TRUST AUTHORITIES

Multi-anchor Trust Authority structure resolves the §107 concern.

Sustainable Markets Initiative	Terra Carta Trust Authority; private-sector signatory recruitment; Commonwealth + C40 endorsement footprint
E.O. Wilson Biodiversity Foundation	Half-Earth Biodiversity Trust Authority; multi-Nobel governance lineage; Encyclopedia of Life knowledge substrate
Holy See — Dicastery for Promoting Integral Human Development	Integral Ecology Trust Authority; magisterial moral authority; 135-year Catholic Social Doctrine corpus
Holy See — Dicastery for Culture and Education	Palm Global Technologies via Peace for Life Foundation; pre-organized engagement framework
Palm Global Technologies	Operational anchor; already publicly listed affiliate of EP3 Sustainable Markets Accelerator
Peace for Life Foundation	Catholic liaison Trust Authority; holds formal Dicastery partnership; interfaith coalition convening
IIMSAM (UN-affiliated)	Trust Authority for nutrition; spirulina-based malnutrition response; cry-of-the-poor mandate
Pro-Natura International	Environmental Trust Authority for rural and indigenous community ecological stewardship
Interfaith ecological coalition	Laudato Si' Movement, GreenFaith, Islamic Foundation for Ecology, Bhumi Project, Eco-Sikh, Buddhist Climate Action Network

EP3 NATURE & HUMANITY TRUST

The financing infrastructure no charitable channel could ever supply.

\$5.25T

ANNUAL FLOW BY 2045

≈ 120x current global humanitarian aid
P50 trajectory under network maturation

\$22T

ANNUAL FLOW BY 2060

≈ 500x current global humanitarian aid
Designed for multi-century horizons

70%+

OF EXCHANGE ROOT

Irrevocable protocol-enforced share of
settlement — not a donation

Half-Earth becomes financeable not because the world finds more charity, but because the Quantum Privacy Network & Liquidity Pool makes protecting half the Earth a productive asset class.

THE CASCADE SURFACE

Four cascade surfaces already engaged for this convergence — amplifying, not competing.

SOVEREIGN	CORPORATE	FAITH & TRADITION	SCIENTIFIC
<p>Commonwealth + C40</p> <p>56 + 96</p> <p><i>countries + cities</i></p> <p>Pre-organized Terra Carta endorsement. Sovereign Accelerator Three-Pathway framework. Independent per-jurisdiction activation.</p>	<p>SMI Signatories</p> <p>100s</p> <p><i>Terra Carta signatories</i></p> <p>SMI's private-sector diplomacy roster. Tier 1–3 Anchor opportunities. Strategic Commitment Spectrum applies.</p>	<p>Faith Communities</p> <p>5B+</p> <p><i>across major traditions</i></p> <p>Catholic 1.4B + Muslim 1.8B + Hindu, Buddhist, Jewish, Sikh, Bahá'í, indigenous. Community Accelerators per tradition.</p>	<p>EOWF + Allied</p> <p>4 Nobels</p> <p><i>on the founding board</i></p> <p>MacArthur, Field Museum, Harvard MCZ, Marine Biological Lab, Missouri Botanical Garden, Smithsonian. Encyclopedia of Life cascade.</p>

Amplification, not zero-sum: SMI corporate engagement → sovereign credibility → faith engagement → scientific credibility → back to corporate.

RISK OF DELAY

First-mover advantage at each layer is multiplicative across all four.

Premium Multiple compression across Accelerator stages (CLP §4)

Stage	Premium Multiple	Allocation Share
Tier 1 Pioneer	100–1,000x+	5–10% of total IP
Cascade Propagation	10–50x	15–25% of total IP
Automated Settlement	2–5x	45–60% of total IP
Governance Hardening	1–2x	5–15% of total IP

THE ASYMMETRY

First Trust Authority at each cascade layer captures Pioneer-stage positioning. Subsequent anchors capture compressed positioning under the framing the first-mover established.

*The four layers amplify each other. Cumulative first-mover advantage is multiplicative, not additive.
Delay at the convergence point costs trillions of dollars in permanently forgone Premium-weighted positioning.*

WHAT IS BEING ASKED

Three-track parallel-not-serial outreach. Each track stands on its own.

TRACK A

Sustainable Markets Initiative

Primary contact

Marcelo de Andrade,
Chairman for Latin America Region

Why this track

Most actionable. Pre-organized
Commonwealth + C40 cascade surface.

Entry framing

Architectural convergence between Terra
Carta mandate and QPN Nature Premium.

TRACK B

E.O. Wilson Biodiversity Foundation

Primary contact

Paula Ehrlich, EOWF President & CEO
Jonathan Hare's direct commission from Wilson
— Herbst Theatre, San Francisco, May 13, 2013

Why this track

EOWF's Half-Earth Project Map and Species
Protection Index are the verification metrics
Nature-Based Asset tokenization requires.

Entry framing

SMA financing makes Half-Earth achievable.
Half-Earth Project Map as verification layer;
SPI is Trust Criterion inheriting Quantum DNA.

TRACK C

Vatican / Interfaith / Palm Global

Primary contact

Via Peter Knez + Palm Global / Peace for Life /
Dicastery channel

Why this track

Existing operational channel via Rome
engagement framework.

Entry framing

Expand to Dicastery for Promoting Integral
Human Development + interfaith coalition.

The ask: a brief substantive conversation with whoever each institution thinks is best positioned to evaluate. · Full Drill down + IP-disclosure available.