ERES Rating System v2.0: Triadic Cybernetic Framework for Empirical Global Governance

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Version History: Builds on v1.0 by integrating resonance metrics (ARI, ERI) from the 1000-Year Future Map, enhancing PlayNAC with gamified progression (CPM × WBS + PERT), and aligning with UBIMIA/NBERS for bio-ecologic economics.

Abstract

The ERES Rating System (ERS v2.0) is a unified, empirically validated framework for measuring human and systemic agency through a triadic ontology: **Will** (strategic intent), **Capacity** (adaptive potential), and **Ability** (manifested outcomes). It powers the ERES Cybernetic Voting System (ECVS) to shift governance from adversarial politics to resonance-aligned optimization, fostering planetary-scale collaboration. Key evolutions include Aura Resonance Index (ARI) integration for quantum-emotional coherence and EarnedPath gamification for verifiable performance. This enables "Cybernetically Complete Humans" – sovereign agents optimized across scales.

1. Introduction: The Triadic Framework

ERS v2.0 operationalizes New Age Cybernetics (NAC) by quantifying agency via three interdependent pillars, inspired by the REAL formula: $REAL = \frac{E \cdot M \cdot R}{T \cdot S}$ (Earned Intent × Moral Design × Resonance / Time × Structure).

Pillar	Component	Focus	Scale
Will (The One)	GAIA	Global intentional alignment	Macro (Planetary)

| Capacity (Mind) | EPIR-Q + ARI/ERI | Quantum-emotional resonance | Meso (Organizational/Personal) |
| Ability (Universe) | PlayNAC EP GERP | Resource-optimized execution | Micro (Individual) to Macro |

This triadic integration – now expanded to include LOGOS (cities), ECONOMY (UBIMIA), and GOVERNANCE (SOMT/ECVS) – ensures coherence across human systems. github.com

2. Theoretical Foundation

Rooted in NAC's 1000-Year Future Map, ERS v2.0 treats governance as a regenerative game: meritocratic (EarnedPath), restorative (NPR), and ecologically balanced (NBERS/UBIMIA). It counters "sins" (e.g., pollution) with "syns" (flawed systems) via non-punitive remediation, using oracle networks for verification.

3. Core Specifications

3.1 GAIA: Global Actuary Investor Authority (Will)

Definition: Actuarial tool for strategic foresight and resource stewardship in EDF simulations.

Core Metrics:

Metric	Description	Range
SAI	Strategic Alignment Index	0–1
AFS	Actuarial Foresight Score	0–100
IWM	Investment Wisdom Metric	0–1
GSA	Global Systems Awareness	0–100

Formula:

$$\text{GAIA}_{\text{Will}} = \frac{\text{SAI} \cdot w_s + \text{AFS} \cdot w_a + \text{IWM} \cdot w_i + \text{GSA} \cdot w_g}{w_s + w_a + w_i + w_g}$$

(Weights w sum to 1; default: equal.)

3.2 EPIR-Q: Emotional Personal IQ Real Quantum + Resonance Indices (Capacity)

Definition: Quantum-inspired assessment of adaptive coherence, enhanced by ARI (biometric/environmental harmony) and ERI (emission impacts). ARI scores 0–100 via Fourier-analyzed bio-signals (e.g., HRV, air quality).

Core Metrics:

Metric	Description	Range
QCM	Quantum Coherence Maintenance	0–1
ERB	Emotional Resonance Bandwidth	0–100 Hz
PIQ	Personal Intelligence Quotient	0–200
ASV	Adaptive State Vector	0–1
ARI	Aura Resonance Index	0–100
ERI	Emission Resonance Index	0–100

Formula:

$$\text{EPIR-Q}_{\text{Capacity}} = \sqrt{\text{QCM}^2 + \text{ERB}^2 + \text{PIQ}^2 + \text{ASV}^2} \times \left(\tfrac{\text{ARI}+\text{ERI}}{200}\right)$$

(Coherence Factor from resonance average.)

3.3 PlayNAC EP GERP: New Age Cybernetic Game Theory × EarnedPath + Global Earth Resource Planner (Ability)

Definition: Gamified engine for outcome optimization, blending multi-agent theory, verifiable paths (EP = CPM × WBS + PERT), and Vacationomics (leisure-resource balance).github.com

Sub-Components:

- **PlayNAC:** Nash equilibria in quests; rewards via resonance multipliers: $\text{Reward} = \text{Base} \times \left(1 + \tfrac{\text{ARI}+\text{ERI}}{200}\right)$. `github.com`
- **EarnedPath (EP):** Progression: $\text{EP} = \text{CPM} \times \text{WBS} + \text{PERT}$ (Critical Path × Work Breakdown + Risk–Adjusted Timeline).
- **GERP:** Resource efficiency with $\text{Vacationomics} = \text{SOMT} \times \text{BERC} \times \tfrac{\text{ERI}}{\text{ARI}}$. `github.com`

Core Metrics (Averaged per Sub-Component):

Sub-Component	Key Metrics	Formula
PlayNAC	SNEI, CGTS, ESSM	Arithmetic Mean
EarnedPath	DPV, ONQ, VCT	Geometric Mean: $(DPV \times ONQ \times VCT)^{1/3}$
GERP	ROE, EIB, SSI	Geometric Mean: $(ROE \times EIB \times SSI)^{1/3}$

Unified Formula:

$$\text{PlayNAC EP GERP}_{\text{Ability}} = \frac{\text{PlayNAC} \cdot w_p + \text{EP} \cdot w_e + \text{GERP} \cdot w_g}{w_p + w_e + w_g}$$

4. ECVS: Cybernetic Voting System

Sovereign Primacy Score (SPS v2.0):

$$\text{SPS}_{v2} = (\text{GAIA}_{\text{Will}} \cdot w_g + \text{EPIR-Q}_{\text{Capacity}} \cdot w_e + \text{PlayNAC EP GERP}_{\text{Ability}} \cdot w_p) \times \text{Resonance Multiplier}$$

(Resonance from ARI/ERI; weights default equal.)

Governance Weight:

$$\text{Weight} = \text{Base Sovereignty} \times \text{SPS}_{v2} \times e^{-\lambda t} \times \text{Context Relevance}$$

($\lambda = 0.1$ for temporal decay; Base = 1 for universal rights.)

5. Implementation Stack

Layer	Tools/Oracles
GAIA	Risk oracles, capital trackers, prediction markets
EPIR-Q	Biometric sensors, ARI dashboards (Three.js), coherence monitors
PlayNAC EP GERP	Quest engines (Node.js/Python), SROC adapters, REACI infrastructure github.com

Privacy: GDPR-compliant, zero-knowledge proofs. Deployment: Open-source (CCAL v2.1), IPFS-archived.

6. Applications

- **Planetary:** GAIA-driven allocation, ARI-optimized diplomacy.

- **Organizational:** EPIR-Q team resonance, PlayNAC project quests.
- **Personal:** HUOS FOO for daily optimization (e.g., ARI aura visuals).

7. Philosophical Implications

ERS v2.0 actualizes the "Complete Cybernetic Human": a resonant node in the 1000-Year Map, balancing merit (EP) with grace (UBIMIA). It reframes sovereignty as empirical co-creation.researchgate.net

8. Conclusion & Roadmap

ERS v2.0 transitions humanity to coherent planetary intelligence, validated via oracles and gamified adoption.

Future:

- v2.1: Quantum enhancements, NBERS full integration. papers.ssrn.com
- Pilots: ECVS in S³ Cities, REACI global rollout.
- Deployment: Open-source scaling by 2030.

References

1. Sprute, J.A. (2023). *ERES Ratings*. [ResearchGate]. researchgate.net
2. ERES Institute (2025). *1000-Year Future Map*. [Medium/ResearchGate]. researchgate.net
3. Sprute, J.A. (2025). *Aura Resonance Index*. [Medium]. **Contact:** eresmaestro@gmail.com | **Social:** @josephsprute (Threads/X)