

MASTER DOCUMENT

Supplement to PHREVO Framework Paper, Version 1.0

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PHREVO: Technical and Strategic Deliverables

Phases 1, 2, and 3 — Ten Annexes for Implementation, Validation, and Scaling

Operative Synthesis of the PHREVO Framework

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1.0 (Complete)

Purpose

Operative synthesis of the PHREVO framework for implementation, validation, and scaling

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Executive Summary: Ten Deliverables to Close the Structural Gaps of PHREVO

PHREVO is a complete post-capitalist economic architecture designed from and for the Global South. This document compiles ten technical and strategic deliverables that respond to the structural gaps identified in the original theoretical framework (PHREVO book and academic paper).

Each deliverable is autonomous — it can be read independently — but all are interconnected and cross-reference each other. Together, they constitute a roadmap for the implementation, validation, and scaling of PHREVO. The ten deliverables are organized across three phases corresponding to their temporal horizon and institutional complexity.

Phase 1: Closing Immediate Gaps (0-6 months)

Phase 2: Major Structural Gaps (6-18 months)

Phase 3: Long-Term Gaps (18-36 months)

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DELIVERABLE 1.1

Lexicographic Rule for the PHREVO-Score and Territorial Arbitration Mechanism

1.1.1 The Problem This Solves

The original PHREVO-Score averages six value dimensions with dynamic weighting by context. This methodology works when the dimensions are complementary. However, there exists a class of cases where dimensions enter into genuine conflict:

A project with high Community Impact (IC) but low Sustainable Depth (SP).
A project with high Human Dignity (DH) but low Justice and Autonomy (JA).
In these cases, simple averaging — even with weighting — can produce an acceptable composite score that masks structural damage in one dimension. The binding threshold condition (no dimension below minimum) already avoids the worst outcomes, but does not resolve the conflict when all dimensions are above the threshold. The lexicographic rule addresses this residual gap.

1.1.2 The Lexicographic Priority Rule

The fixed hierarchical order is:

SP > DH > JA > CB > IC > TE

Where > is read as "has lexicographic priority over." The operational implication: given a project P and two dimensions D_i and D_j with $i < j$ in the order above, the evaluation proceeds hierarchically. First, whether P meets the binding threshold for SP is evaluated. If it does not, P is automatically rejected regardless of its other scores. If it meets SP, DH is evaluated, and so on down the chain. In any conflict between SP and any other dimension, SP always prevails.

1.1.3 Territorial Arbitration Mechanism (MAT)

When the lexicographic rule produces a consequence that a community considers unjust in its specific context, the Territorial Arbitration Mechanism (MAT) can be activated.

Hard limits on the MAT: the deviation is temporary (maximum 24 months, renewable once); it cannot eliminate binding thresholds; and the same assembly cannot request arbitration more than once every 4 years on the same issue.

1.1.4 Relationship Between Three Levels of Score Governance

DELIVERABLE 1.2

Market Entry Strategy: First Adopters

1.2.1 The Three Adopter Types

1.2.2 Priority Examples by Type

1.2.3 12-Month Roadmap

DELIVERABLE 1.3

Care as Economic Infrastructure: Measurement, Valuation, and Protection

1.3.1 Theoretical Framework: Fraser, Federici, Tronto

1.3.2 Care Indicators for the PHREVO-Score (CB Dimension)

1.3.3 Three Modes of Care Valuation in PHREVO

1.3.4 The Double Protection Rule

"Care cannot be either exploited (precarized) nor idealized (romanticized). Every care policy must pass two tests: Does it protect workers against exploitation? And does it recognize care as work without tying it to gender roles or sacrificial ideals?"

DELIVERABLE 2.1

Legal White Paper: Operative Guide for Implementation Without Constitutional Change

2.1.1 Central Premise

"You do not need the State to recognize multilayer collective ownership to start organizing your community. There are existing legal forms — cooperatives, participatory budgets, contracts with social clauses, NGOs, autonomies — that already give you 80% of what you need."

The pyramid of the possible has three levels. At the base: what is legal (the existing system, which is navigated, not combated). In the middle: what is possible now (cooperatives, participatory budgets — used to demonstrate that PHREVO works). At the apex: the ideal (multilayer ownership, binding community veto — built through practice, not demanded as a prior condition).

2.1.2 Existing Legal Forms and How PHREVO Uses Them

2.1.3 Strategy by Adopter Type

2.1.4 Key Legal Defense Framing

"The municipality / community / NGO is not creating a new form of property nor violating any law. It is using its existing powers to measure the impact of its programs in a more rigorous way. If there is conflict with any national law, the pilot is limited to social programs, not private property relations."

DELIVERABLE 2.2

Formal Economic Model of the PHREVO-Exchange

A market based on impact, not speculation.

2.2.1 Key Definitions

2.2.2 Fundamental Value Function

The fundamental value of a token reflects its proportional share of total redistribution resources, weighted by its relative PHREVO-Score:

$$V_{it} = \phi \cdot S_{it} \cdot R_t / \sum_j(Q_{jt} \cdot S_{jt})$$

Intuition: the value of a token is its participation in total resources, weighted by its relative Score. A project that doubles its PHREVO-Score (genuine impact improvement) doubles its token value. A project that maintains its Score while others improve loses relative value — creating structural incentives for continuous impact improvement.

2.2.3 Price Corridor and Anti-Speculation Constraints

The price of any token is constrained to remain within a band around fundamental value:

$$P_{it} \in [V_{it} \cdot (1 - \delta_{min}), V_{it} \cdot (1 + \delta_{max})] \text{ where } \delta_{min} = 0.05, \delta_{max} = 0.10$$

2.2.4 Theorem 1: Equilibrium Existence

Under assumptions S1-S4 (continuity of the value function, decreasing demand within the corridor, constant or controllably growing supply, and bounded agent rationality), the PHREVO-Exchange has at least one Nash equilibrium in prices and quantities. **Proof sketch:** The fundamental value function V_{it} is continuous in S_{it} and R_t . Demand is piecewise decreasing within the corridor. Supply is constant (or grows through controlled issuances governed by Score improvement). By Brouwer's Fixed Point Theorem, there

exists P_{it}^* such that $D(P^*) = Q$ (excess demand equals zero). The price corridor bounds the equilibrium set, ensuring it remains in a compact domain.

2.2.5 Liquidity Mechanism Without Speculation

2.2.6 Simulation Results (Neutral Scenario)

DELIVERABLE 2.3

Controlled Trial Design for Empirical Validation of PHREVO

2.3.1 Primary Hypotheses

2.3.2 Study Design

2.3.3 Primary Indicators

2.3.4 Sample Size and Statistical Power

Assumptions: MDE (minimum detectable effect) = 0.10 in Score units; $\sigma = 0.15$; ICC (intraclass correlation) = 0.05; n = 6 territories; T = 6 time periods; m = 500 respondents per territory per wave. Result: power = 80% to detect a 10% improvement. With 10 territories, power >90%.

2.3.5 Estimated Budget (5 Years, 6 Territories, PMI)

DELIVERABLE 2.4

Response to Mises and Hayek: The Economic Calculation Problem

2.4.1 The Problem According to Mises and Hayek

2.4.2 PHREVO's Response to Mises

2.4.3 PHREVO's Response to Hayek

2.4.4 Limits and the Empirical Answer

PHREVO acknowledges that its theoretical response is incomplete. The unit-of-account problem (what exactly is 1 PH \odot in terms of real value?) and the tension between centrally-anchored pricing and decentralized deliberation are not fully resolved in theory. The PHREVO-Exchange is a proposed solution, not a proven one. *The definitive answer is empirical: build the Exchange, test it in a sandbox, pilot it in real territories, measure whether it produces rational allocation and stable coordination. That is precisely what Deliverable 2.3 is designed to test. PHREVO does not claim to have won the calculation debate theoretically. It claims to have a plausible counter-proposal that deserves empirical investigation.*

DELIVERABLE 3.1

Technological Sovereignty Architecture

Decentralized infrastructure without central points of failure.

3.1.1 Why This Is Necessary

3.1.2 Architecture Principles

3.1.3 Node Types and Governance

3.1.4 Hardware and Costs

3.1.5 Implementation Phases

DELIVERABLE 3.2

Theory of the State in PHREVO

Tactical cooperation, strategic autonomy, and competitive obsolescence.

3.2.1 The Three Modes of Relationship with the State

3.2.2 State Typology by Disposition Toward PHREVO

3.2.3 The Competitive Obsolescence Hypothesis

"PHREVO does not seek to seize the State. It seeks to make it irrelevant in the functions where the State is ineffective, while cooperating with it where it can, and confronting it where it must, without ever depending on it."

3.2.4 What PHREVO Is Not

DELIVERABLE 3.3

Participatory Research Network: Africa, Asia, and the Pacific

Transregional validation of the PHREVO framework from the Global South.

3.3.1 Why This Is Necessary

PHREVO was born in Colombia from a Latin American experience. For it to legitimately claim to be a framework for the entire Global South — and not just for Latin America — it must be tested, challenged, and adapted by researchers and communities from other regions. Without this network, PHREVO risks being exactly what it claims to oppose: a framework that claims universality it has not earned through genuine co-creation.

3.3.2 Network Structure and Principles

Five non-negotiable principles govern the network: horizontality (no central node controls others; PHREVO is one node among equals); reciprocity (knowledge flows in all directions, from PHREVO to regions and from regions to PHREVO); non-extractivism (research benefits are shared with communities; data belongs to communities, not to researchers or PHREVO); linguistic plurality (English is not the sole working language; materials are translated); and community ownership (research outputs belong to participating communities).

3.3.3 Proposed Regional Nodes (Phase 1)

3.3.4 Four-Phase Work Plan

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3.3.5 Non-Extractivist Methodology

Conclusions: From Theory to Implementation

The ten deliverables presented in this document close the structural gaps identified in the original PHREVO framework. Each deliverable is a piece of the puzzle; together, they constitute a roadmap for implementation, validation, and scaling of the system.

Immediate Priority Summary

Call to Collaboration

PHREVO cannot grow alone. The gaps closed theoretically must be validated empirically. The following table summarizes the roles through which different actors can contribute to the PHREVO project:

"The next step depends on you. PHREVO is an open invitation — not a closed system waiting for adoption. It is a framework designed to be challenged, adapted, and improved by the communities it seeks to serve."

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