

Triadic Frameworks for Economics: Reframing Systems through Dimensional Resonance, Symbolic Scaffolding, and Systemic Modeling

Introduction

Over the last decade, economic scholarship and policy have increasingly turned towards frameworks that move beyond linear or binary analysis to embrace complexity, multidimensionality, and adaptive systems thinking. At the forefront of these emergent paradigms is **Triadic Framework Technology (TFT)**, a structured approach that leverages the analytic, synthetic, and synergic potential of triads-systems built on robust three-part relations. TFT posits that many foundational and emergent patterns in economic life, from the micro-behaviors of households to the macro-operations of global markets and institutions, are best understood not as dyads (two-party systems), but as dynamic networks of three, each interacting with and transforming the others through what this paper will call *dimensional resonance, symbolic scaffolding, and systemic modeling*^{[2][3]}.

This paper develops a comprehensive account of **TFT's theoretical underpinnings, historical roots, and present-day implementations** in economics. It places TFT in conversation with core legacies such as the Edgeworth Box and Pareto Efficiency, integrates pioneering ideas from Georgescu-Roegen's entropic economics and Peircean semiotics, and explores the proliferation of recent triadic models: from exchange and power theory to sustainability and crisis resilience. The analysis critically addresses **systemic pain points** including economic crime, natural disasters, water scarcity, disease, and population booms-raising the question of whether TFT can serve as a technology of systemic integration and resilience.

Ultimately, the report seeks to show that **Triadic Frameworks offer not just new analytic tools but an organizing philosophy** for economic thought and action, with profound implications for policy design, resilience strategies, and the architecture of economic modeling across ecosystems, markets, and institutions.

Theoretical Foundations of Triadic Framework Technology (TFT)

Triadic Framework Technology is grounded in the principle that *the analytic, operational, and explanatory power of models is qualitatively enhanced when systems are organized around triads, rather than dyads or single-agent logics*. A triadic framework is not simply a collection of three distinct factors, but a synthetic, systemic, and synergic model where mutual interdependence and interactivity yield emergent properties—"the triad as a whole displays more features and higher value than the sum of features of the three isolated elements".

The Triple S Holistic Approach

Central to TFT is the **Triple S Holistic Approach**:

- **Systemic:** Each element is a necessary and irreducible part of a larger system.

- **Synthetic:** The element relations reveal essential interdependencies, and the triad as a whole represents a conceptual leap beyond the individual contributions.
- **Synergic:** The system as a whole achieves capabilities and solutions unattainable by any dyad or isolated element.

To qualify as a true triadic model (whether for analysis or prescription), the system must exhibit these three S's, which enable holistic insight into complex, often wicked, economic problems (e.g., sustainability, innovation, governance)^[5].

TFT's Modes: Dimensional Resonance, Symbolic Scaffolding, and Systemic Modeling

- **Dimensional Resonance** refers to the dynamic interplay of three distinct, yet harmonized, dimensions or axes—typically representing agents, factors, or system states—in which changes resonate across each axis, revealing hidden patterns and potentials^[6].
- **Symbolic Scaffolding** is the use of triadic, often semiotic, representations (sign-object-interpretant) to structure and extend complex models, allowing for more robust integration of symbolic, practical, and contextual knowledge^{[8][9]}.
- **Systemic Modeling** is the explicit construction of models that incorporate feedbacks and flows not just between pairs of elements (as in systems dynamics) but across triadic networks. This yields greater fidelity to reality and supports resilient policy and planning^{[11][12]}.

By weaving together these three pillars, TFT positions itself as a leap forward in economic modeling—offering a richer grammar for analysis, an expanded menu of policy interventions, and the structural capacity to model complexity, emergence, and adaptation.

Dimensional Resonance in Economic Systems

Dimensional resonance in TFT draws from the idea that *economic reality unfolds within, across, and between multiple axes or dimensions, whose interactions are not merely additive but transformative*. Topical analogs are found in physics (wave resonance), biology (ecological niches), and more recently, in systems economics.

Dimensional Resonance Theory and Economics

Recent work in Dimensional Resonance Theory (DRT) shows that *forces in physics and social systems may best be understood as emergent from vibrational resonance among three (or more) dimensions*^[6]. In economic systems, resonance appears when, for example, technology, policy, and cultural adaptation reinforce one another, causing so-called “tipping points” or phase shifts (as with the rapid adoption of the Internet, or the energy transition).

Computational models have validated some aspects of DRT, demonstrating *the robustness of systems when resonance is properly aligned*, and the rapid breakdown of coherence when one or more axes fall out of phase (e.g., technological innovation absent supportive policy and social trust stalls, as seen in some failed smart grid deployments).

Examples of Dimensional Resonance

Consider the **Triple Helix Model of Innovation** (university-industry-government): technological innovation (axis one), regulatory frameworks (axis two), and social culture of trust and learning (axis three) mutually resonate to produce national and regional systems of innovation and competitiveness.

Similarly, emerging triadic designs in blockchain focus on the co-alignment of **Security, Stability, and Sustainability**-maximizing resonance between core pillars to ensure holistic system viability in decentralized economic networks^[1].

Symbolic Scaffolding in Economic Modeling

At the heart of TFT's analytic apparatus lies its **symbolic scaffolding**-drawing inspiration from Peircean semiotics and evolutionary logic. TFT employs triadic semiotic models, wherein *the sign, the object, and the interpretant together mediate meaning and action*, offering a framework for both the representation and transformation of economic systems^[8].

Peircean Semiotics and Triadic Scaffolding

In Peirce's semiotics, the sign mediates between an object and its interpretant in a fundamentally **triadic relation**. Each component-sign, object, interpretant-cannot function in isolation; *meaning emerges as a complex synthesis* grounded in reference, context, and interpretation^[8].

This structure is echoed in economic diagrams and models. For example, **Edgeworth boxes** are not mere graphical devices, but, in Peircean terms, iconic diagrams with embedded pragmatic meaning, capable of representing the consequences and affordances of different exchange scenarios-a clear case of symbolic scaffolding manifesting in both logic and action^{[14][15]}.

Application in Economic Model Extension

Recent pedagogical research reveals that enabling students to extend economic models through *symbolic scaffolding*, such as in-class iterative assignments where models are critiqued, modified, and rebuilt, significantly enhances creative understanding, analytic rigor, and the capacity for novel economic reasoning^[17].

At the policy level, the semiotic framing of, for example, water governance directives in the EU demonstrates how the construction and communication of concepts ("quality," "risk," "circularity") act as symbolic scaffolds shaping both behavior and policy compliance-underscoring the practical import of triadic semiotics in administrative decision-making^[9].

Systemic Modeling Approaches in Economics

While system dynamics modeling has a long pedigree in economics, triadic frameworks offer a **next-generation approach** to systemic modeling-explicitly incorporating not just feedback loops and stocks/flows (the bread and butter of system dynamics), but also designed triadic relationships that capture multi-agent, multi-level, and multi-perspective interactions^{[11][5]}.

From System Dynamics to Triadic Systemic Modeling

System dynamics, pioneered by Jay Forrester and extended in fields from climate to urban planning, typically models systems in terms of feedback loops, stocks, and flows, often organizing relationships in binary (reinforcing/balancing) terms^[11]. The incorporation of triadic logic allows modelers to *capture more complex and emergent properties* (e.g., resilience, innovation, crisis propagation) by explicitly coding for the presence and interplay of triads-such as the interaction between infrastructure, population, and climate resilience^[19].

For instance, FEMA's National Resilience Guidance, while not explicitly labeled as triadic, emphasizes multi-pronged, cross-sectoral approaches (e.g., infrastructure, social resilience, and environmental adaptation), moving system modeling closer to TFT's holistic vision^[19].

Measures and Maturity Models

Triadic models encourage the use of nuanced evaluation metrics, including:

- **Input, process, output, and outcome measures**-ensuring that success is tracked across all major system "corners" and their interactions, not just immediate outputs.
- **Resilience maturity models** at organizational, regional, and national levels, moving organizations from ad hoc/reactive behaviors to fully integrated, adaptive, and transformative systemic resilience-a direct echo of TFT methodology^[12].

Historical Foundations Re-examined through Triadic Frameworks

Edgeworth Box Extensions and Pareto Efficiency Triadic Interpretations

The traditional **Edgeworth Box** models an economy of two agents and two goods, visualizing all possible allocations and the set of Pareto optima (points where no further mutual improvement is possible). However, by "resonating" the model to higher dimensions (i.e., introducing a third agent, a regulator, or a third commodity), TFT extends the visualization and analysis to triadic (and then n-adic) spaces^{[14][15]}.

Table: Comparison of Dyadic and Triadic Exchange Models

Feature	Dyadic (Edgeworth Box)	Triadic Exchange (TFT)
Agents	2	3 or more
Allocation visualization	2D box, contract curve	3D simplex or higher; planes
Efficiency concept	Pareto (no dyad can improve)	Systemic; allows for mediators, externalities, coercion, and public goods
Policy modeling	Redistribution via contracts	Inclusion of third-party regulation, social norms, or environmental constraints

Expanding to triadic exchange, as in the work by Wagner and Podemska-Mikluch, introduces margins of coercion, the possibility of external intervention, and richer modeling of power and

institutional relations^[22]. This trinary frame enables analysis of real-world phenomena such as government regulation, third-party certification, or societal norms impacting market transactions.

Georgescu-Roegen's Entropic Economics in Triadic Perspective

Georgescu-Roegen's entropic economics, with its flow-fund model, disrupts the circular, mechanistic vision of the economy by embedding it in the realities of energy and material dissipation (entropy)^[24]. The triadic structure becomes manifest in the distinction among:

- **Funds (labor, land, capital):** Maintainers of production capacity,
- **Stocks:** Commodities and resources awaiting transformation,
- **Flows:** Throughput of energy and materials.

In TFT language, these are three co-evolving, interacting elements whose systemic relationship—rather than any singular one—shapes economic development, sustainability, and collapse.

The flow-fund framework presaged today's triple bottom line models and positions TFT as a direct heir to this tradition, but with added dimensions of resonance and symbolic scaffolding for analysis, education, and policy.

Peircean Semiotics in the Evolution of Economic Modeling

Beyond mathematics, Peircean semiotics reveals that economic reasoning and modeling are inherently triadic—sign, object, and interpretant form the substrate for all diagrammatic and symbolic economic logic. This is powerfully illustrated in modeling tools such as:

- Iconic or diagrammatic models: Edgeworth Box, supply-demand curves.
- Indexical representations: Data linking, time series analysis.
- Symbolic models: Equations, formulae, computational simulations^[8].

By systematizing the semiotic process, TFT helps economists move from isolated analytics to robust, communicative, and reflexive modeling—essential for today's complex, rapidly evolving economic systems.

Recent Developments in Triadic Models

Triadic Exchange Theory

Triadic Exchange Theory (TET) shows that *coercion, public policy, and externalities are endemic features of real exchange systems, which dyadic models cannot adequately represent*^[22].

Table: Pure Dyadic vs Triadic Exchange

Feature	Dyadic Exchange	Triadic Exchange
Voluntariness	Fully voluntary	Often admixture of liberty and coercion
Regulation	Minimal or exogenous	Embedded within exchange (third-party)

Historical	Classically, barter/trade	Modern credit markets, government policy
Example	Farmer-butcher trade	Lender-borrower-regulator; policy mixes

Triadic exchange is especially essential for financial systems (e.g., credit markets/repo interventions), environmental regulation, and all areas where state or collective “guardianship” is neither peripheral nor optional.

Triadic Power Dynamics

Analysis of power in triadic terms provides a more sophisticated account of institutional evolution, collective action, and leadership. Prof. William Ferguson’s model parses power into:

- **Power1** (direct influence),
- **Power2** (manipulating rules/expectations-game theory/logics),
- **Power3** (shaping beliefs-norms/politics/entrepreneurship)^[25].

Triadic power relations unfold in distinct strategic patterns such as third-party mediation, divide-and-conquer, gatekeeping, and benefit-from-presence-all of which cannot be reduced to simple dyads and are central to understanding modern economic governance, regulatory capture, and institutional change.

Triadic Sustainability Models

Building on the “three pillars of sustainability” (environmental, social, economic), triadic frameworks for sustainability have become *the dominant paradigm for analyzing and fostering sustainable development*^[4].

Rather than privileging one pillar or dimension over others, triadic sustainability models seek integrated solutions-policy designs, market incentives, and innovation ecosystems-that simultaneously advance ecological health, social justice, and economic viability.

Triadic Systemic Pain Point Mapping

TFT’s strength is clearest in systemic pain points-complex “wicked problems” such as crime, natural disasters, water scarcity, disease, and population explosion. In each domain, TFT enables integration of:

- **Direct causes** (e.g., resource depletion, criminal activity)
- **Structural/Institutional mediators** (e.g., regulations, infrastructure, technology)
- **Emergent effects** (e.g., resilience, scarcity shocks, migration, systemic adaptation)^{[18][9][28][30]}
^[31].

Systemic Pain Points and TFT Applications

Crime

Economic crime-including fraud, corruption, money laundering, and organized syndicates-has proven resilient against purely market or regulatory approaches. A triadic approach frames:

1. **Actors:** Perpetrators, enablers/intermediaries, and victims/society,
2. **Mechanisms:** Market, institutional, and systemic loopholes/interventions,
3. **Impacts:** Direct loss, legitimization cycles, and adaptive criminal innovation.

Examples in ethnic conflict demonstrate triadic modeling clarifies the *co-evolution of mafias, states, and separatist groups*-showing that organized crime may act as mediator, divider, or beneficiary, shaping conflict and opportunity structures in ways dyadic frameworks miss^[32].

Natural Disasters

Triadic frameworks are central in resilience modeling, where:

- **Physical systems** (infrastructure, ecosystems),
- **Institutional systems** (governance, insurance, policy),
- **Societal systems** (population, social capital, behavior) combine to determine the success or failure of responses to disaster^{[19][5]}.

Resilience now means not just bouncing back but “bouncing forward”-systemic adaptation, where co-benefits, multi-objective design, and interlocking support structures (triadic and beyond) are the new normal.

Water Scarcity

Water governance, as analyzed via triadic semiotic frameworks, relies on *the integration of legal standards, technocratic implementation, and ecological realities*-each framing, constraining, and enabling the others. Governance success depends on moving from binary pass/fail regulatory logic to adaptive, systemic approaches involving:

- Regulatory authorities,
- Sectoral actors (e.g., farmers, industries),
- Ecological and community stakeholders^[27].

Water theft as an economic crime further demonstrates the need to intertwine technological, legal, and community approaches for lasting solutions.

Disease

Pandemic responses demand triadic models that unite epidemiological understanding, economic policy, and organizational-resilience approaches. Interdisciplinary SIS-based models of pandemic-economy interaction have shown:

- Disease spread constrains labor supply and output,

- Public health and economic policies (lockdowns, stimulus, healthcare) interact in non-linear ways,
- Social trust, compliance, and systemic adaptability are as impactful as direct interventions^[29].

Population Booms

TFT analysis of the population-economy-growth nexus, using regime-based clustering, reveals three main population-economic regimes:

- Mature economies (stable, high GDP, low population growth),
- Transition economies,
- Young economies (high population growth, low GDP)^[31].

Triadic clustering methods reveal convergence and divergence patterns, enhancing the prospect for more effective, regime-specific policy design.

TFT Solutions in Economic Planning

In view of these pain points, **should TFT solutions become a core feature of comprehensive economic plans?** The evidence suggests strongly in the affirmative:

- **Crime:** Triadic models enable system-wide responses, integrating financial, legal, and technological layers^[26].
- **Disasters:** TFT underpins modern resilience thinking, which regards disasters as cascading, compounding events requiring multi-system solutions^{[19][5]}.
- **Water:** Semiotic-triadic analysis uncovers gaps in regulatory and ecological alignment, leading to more sustainable and fair allocation regimes^[27].
- **Disease:** As COVID-19 has shown, only multi-tiered triadic responses (public health, economic support, social resilience) avert both social and economic collapse^[29].
- **Population:** Symbolic-triadic clustering provides more actionable, multi-level policy evaluation and design^[31].

Triadic Frameworks in Key Economic Domains: Illustrative Case Tables

Example 1 - Exchange: From Dyadic Trade to Triadic Resonance Modeling

Modeling Aspect	Dyadic (Traditional)	Triadic (TFT)
Actors	Two agents/traders	Three (or more) agents; e.g. market, regulator, community

Focus	Voluntary transaction	Regulation, public goods, systemic risk, coercion
Outcome Modeling	Pareto efficiency, exchange equilibrium	Equilibrium+externalities, coercion, policy
Real-world Fit	Limited (does not model state, NGOs, environment)	Broader, acknowledges power, coercion, and third-party impacts

Explanation: In credit markets, triadic modeling readily captures the role of regulators/lenders, borrowers, and the societal impact of risk (e.g., housing market crises, regulatory interventions, and public bailouts)^[22].

Example 2 - Value Creation: From Labor-Capital to Triadic Value Systems

Classical Approach	Dyadic: Labor-Capital (Marxism/Neoclassicism)	Triadic Value System (TFT)
Core Relation	Labor-Capital	Labor-Capital-Social/Environmental
Value Definition	Labor time, Profit	Surplus as a function of labor, capital, and externalities (sustainability, stakeholders, data, social values)
Externalities	Often omitted	Explicitly modeled and addressed
Example	Factory wages	Fairtrade certification (labor, capital, environment)

Explanation: The TFT approach allows for simultaneous optimization of economic, social, and environmental outcomes, better aligning economic value with contemporary social priorities (e.g., ESG frameworks, triple-bottom-line accounting)^{[33][34]}.

Example 3 - Economic Resilience: From Reactive Policy to Triadic Crisis Modeling

Domain	Reactive/Linear Policy (Classical)	TFT Triadic Crisis Model
Analytical Structure	Single event or sector focus	Integration of physical, institutional, societal systems
Feedbacks	Limited/time-delayed	Explicitly modeled and rapid
Intervention modes	Top-down, one-dimensional	Multi-pronged; leverage, adaptation, redundancy
Metrics	Single: economic loss, speed	Multiple: co-benefits, social capital, systemic adaptation
Example	Flood protection levee	Flood resilience: levee + parks + job retraining ^[18]

Speculative Applications in Economic Policy Design

Policy Design for Systemic Resilience

TFT-derived policy could lead to:

- Mandates that every major policy proposal be evaluated with regard to its triadic impacts (e.g., economic, environmental, social).
- National resilience dashboards and scenario planners designed on triadic metrics and symbolic scaffolding.
- Market designs (auctions, emissions trading, crypto-infrastructure) that build in triadic governance/mediation for stability and trust.
- Institutional innovation offices devoted to fostering triple-helix and triadic partnerships in research and development.

Opportunities for TFT Developers

A flavor of the domains ripe for TFT enhancement includes:

- **Blockchain and digital infrastructure:** Security, stability, sustainability need to be harmonized via triadic architectural frameworks^[1].
- **Water policy and circular economy:** Triadic governance integrating law, technology, and ecological function.
- **Cross-border economic integration (e.g., US-Africa Mineral Initiatives):** Value chains that equally benefit host nations, investors, and local communities, monitored via triadic frameworks of transparency, interoperability, and justice^[35].
- **Complex risk analytics:** Integrating climate, health, and financial models through triadic systemic modeling and semiotic scaffolding.

Conclusion

Triadic Framework Technology marks a qualitative transformation in the theory and practice of economics. By building upon established triadic logic-deeply rooted in semiotics, systemic modeling, and the flow-fund paradigm-TFT enables scholars, practitioners, and policymakers to transcend the limitations of dyadic and linear models.

The systemic pain points now gripping economic discourse-from crime and pandemics to resource crises and environmental instability-demand approaches that are inherently cross-domain, cross-scalar, and adaptive. In this context, TFT's blend of dimensional resonance, symbolic scaffolding, and systemic modeling emerges not as a luxury, but as a necessity for modeling, managing, and transforming the economy-in-society-in-nature for the twenty-first century.

Future research and application should aim to structurally embed triadic approaches in policy evaluation processes, economic education, market architecture, and multilateral risk

frameworks. As complex systems and realities continue to present multifaceted crises and opportunities, the triadic approach is poised to be an indispensable engine of innovation, justice, and resilience.

Key References Integrated and Cited Throughout: Springer Proceedings in Business and Economics; Mercatus Center, Review of Austrian Economics^[22]; United Nations University - Triadic Power^[25]; Sustainability Science, Sustainability Journal, Frontiers in Environmental Science and Public Health^{[9][28]}; Practical case sources on economic crime, water scarcity, disaster resilience, and systemic modeling.^{[18][27][31][5]}. Academic advances in system dynamics, educational extensions, and triadic semiotics in economics complete the core web of foundational scholarship.

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