

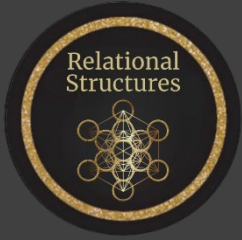
Relational Structures™

RESPONSIBILITY, REGULATION, AND
STABILITY IN HUMAN SYSTEMS

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ABSTRACT

Relational Structures™ is a systems-based framework for understanding how responsibility moves through human relationships under conditions of constraint.

Rather than interpreting interpersonal dynamics primarily through psychological traits, intentions, or communication styles, this framework treats relationships as regulatory environments within which responsibility must be integrated, redistributed, or externalized in order to maintain stability. When incoming relational information exceeds a system's available integration capacity, predictable structural responses emerge. These responses include integration, distortion, or collapse.

The framework introduces responsibility conservation as a governing principle of relational behavior and defines identity elasticity as the primary variable determining whether systems adapt or destabilize under friction. It further distinguishes four regulatory pathways through which systems respond to constraint: internal regulation, relational-dialogic regulation, relational-adaptive regulation, and external regulation. Together, these components form a structural coordinate system capable of describing how relational systems maintain equilibrium, redistribute load, or reorganize when integration becomes impossible.

By treating relational conflict as a lawful response to capacity limits rather than as a failure of intention or morality, Relational Structures™ provides a unified model for analyzing stability across personal relationships, organizations, and institutions.

TABLE OF CONTENTS

01	INTRODUCTION
02	LITERATURE REVIEW
03	RESPONSIBILITY CONSERVATION IN RELATIONAL SYSTEMS
04	IDENTITY ELASTICITY & INTEGRATION CAPACITY
05	REGULATORY PATHWAYS IN RELATIONAL SYSTEMS
06	RELATIONAL LOAD & FRICTION
07	SUBSIDY & ARTIFICIAL STABILITY
08	DISTORTION & COLLAPSE AS STRUCTURAL RESPONSES
09	CROSS-DOMAIN APPLICATIONS
10	CONCLUSION: A COORDINATE SYSTEM FOR RELATIONAL DYNAMICS
11	REFERENCES

INTRODUCTION

A Moral Dilemma

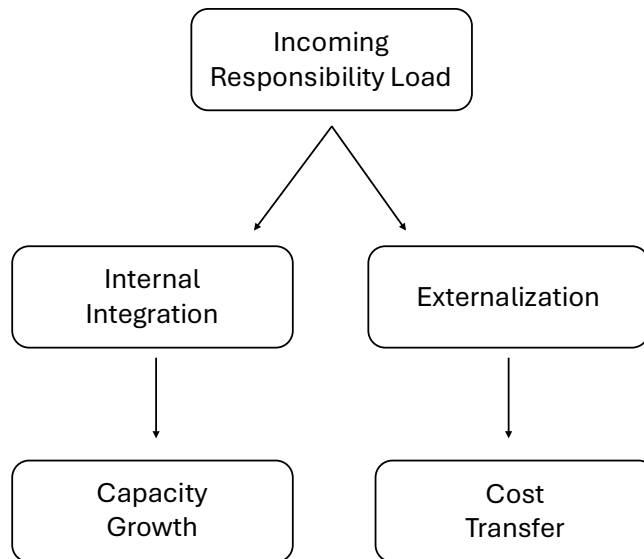
Relational dynamics are often interpreted through lenses of personality, communication style, attachment pattern, or moral intention. While these approaches offer descriptive insight into how individuals experience relationships, they do not adequately explain why the same structural patterns recur across domains as different as families, workplaces, partnerships, and institutions. Nor do they explain why attempts at clarification sometimes resolve conflict while, in other cases, they intensify instability.

Relational Structures™ begins from a different premise. It treats relationships not simply as exchanges between individuals but as regulatory environments through which responsibility is distributed, retained, or transferred. Participants do not merely communicate information to one another; they participate in maintaining the stability conditions of the relational system itself. Observable behaviors therefore reflect system-level requirements as much as individual preference.

Within this framework, relational outcomes emerge from structural interactions between responsibility, capacity, and constraint. When incoming relational information can be integrated internally, systems adapt and stabilize. When integration exceeds available capacity, responsibility must be redistributed. The resulting redistribution produces recognizable patterns of distortion, projection, accommodation, procedural enforcement, or disengagement.

INTRODUCTION

Figure 1: Internal vs External Regulation pathways



By defining relationships as regulatory environments rather than as psychological exchanges alone, Relational Structures™ provides a structural basis for predicting how systems respond under friction and why similar stabilization strategies appear across otherwise unrelated contexts.

LITERATURE REVIEW

Microeconomics & Systems Theory

Relational Structures™ draws from both economic reasoning and systems theory in order to describe how stability emerges under conditions of constraint. Rather than treating relational behavior as the outcome of individual intention alone, the framework approaches relationships as adaptive systems that must continually integrate incoming information in order to maintain coherence over time. Stability, in this view, is not assumed; it is produced through the successful internalization of responsibility. This perspective is consistent with Herbert A. Simon's (1962) analysis of bounded rationality within complex systems, which demonstrated that adaptive behavior reflects structural limits on available responses rather than unconstrained optimization by individual agents.

In microeconomics, stability depends on how costs, incentives, and responsibilities are distributed across participants within a bounded environment. Concepts such as marginal adjustment along intensive and extensive margins, equilibrium maintenance, and externalities demonstrate that systems remain stable only when the burdens required to sustain them are metabolized internally rather than displaced outward.

This pattern reflects a more general structural principle: constraint does not eliminate responsibility but redistributes it across available agents within the system boundary. Earlier empirical work examining behavioral adaptation to irrigation water restrictions imposed through local governance similarly demonstrated that compliance emerges most efficiently when responsibility is integrated within the governing system rather than imposed externally (Drysdale & Hendricks, 2018).

In microeconomic terms, adaptation to constraint typically occurs first along the intensive margin, where agents modify behavior within an existing structure before undertaking more costly adjustment along the extensive margin, where the structure itself must change. Earlier work by the author examining irrigation quota responses demonstrated this pattern empirically,

as participants reduced water-use intensity prior to altering acreage or crop selection (Drysdale & Hendricks, 2018). Relational Structures™ extends this margin-adjustment logic to interpretive systems by proposing that identity elasticity determines the range over which responsibility can be integrated through intensive-margin adaptation before extensive-margin restructuring becomes necessary.

The framework also builds directly on the foundations of modern systems theory. Ludwig von Bertalanffy (1968) established that living systems must be analyzed as organized wholes defined by exchanges across boundaries rather than as collections of independent parts. Norbert Wiener (1948) further demonstrated that feedback integration is the primary mechanism through which systems maintain continuity under changing environmental conditions.

W. Ross Ashby (1956) later showed that adaptive stability depends on the range of responses available within the system itself, establishing Ashby's Law of Requisite Variety: that regulation requires sufficient internal variety to absorb incoming complexity. Relational Structures™ extends this insight by identifying identity elasticity as the relational analogue of regulatory variety, describing the range over which systems can absorb incoming responsibility without requiring structural reinterpretation. In this framework, regulatory variety determines whether incoming responsibility can be absorbed through intensive-margin adaptation or whether extensive margin restructuring becomes necessary.

At the level of communication systems, Gregory Bateson (1972) demonstrated that interpretation functions as part of a regulatory process rather than as a neutral reflection of reality, establishing that meaning itself influences system stabilization by shaping how events are interpreted, valued, and assigned significance within a relational environment. Differences in interpretation therefore do not simply reflect differences in perception; they reflect differences in how a system can remain coherent while recognizing incoming responsibility and relational implications.

Donella Meadows (1999 & 2008) later clarified that resilience depends on a system's capacity to reorganize under changing conditions rather than maintain rigid equilibrium. Finally, Elinor Ostrom (1990 & 2005) demonstrated that collective systems remain stable when responsibility is integrated locally rather than transferred to centralized enforcement structures. Relational Structures™ extends this principle by showing that

relational stability likewise depends on whether responsibility can be metabolized within the system itself.

Taleb (2012) similarly demonstrated that systems exposed to variability can increase robustness when internal capacity allows stress to be metabolized rather than displaced, reinforcing the principle that stability depends not on the absence of the disturbance but on the system's ability to integrate it internally.

RESPONSIBILITY CONSERVATION IN RELATIONAL SYSTEMS

A central principle of the framework is that responsibility functions as a conserved quantity within relational environments. When new information enters a relationship, it carries implications for interpretation, response, and possible behavioral revision.

These implications constitute responsibility. Because responsibility cannot disappear, it must either be integrated internally or redistributed elsewhere within the system.

Responsibility therefore varies independently of a system's capacity to integrate it. Relational environments differ not only in how responsibility is processed but also in how much responsibility enters the systems at a given moment. This distinction makes it possible to treat responsibility as a structural load variable rather than as a property of individual personal intention. Identity elasticity, introduced in the following section, describes the range over which that load can be absorbed without requiring revision of the interpretive structure itself.

Institutional quota systems that permit localized trading similarly demonstrate that constraint does not eliminate responsibility but instead redistributes it across participants within the regulatory boundary (Drysdale & Hendricks, 2018). This redistribution preserves system continuity while shifting regulatory burden among participants rather than resolving the constraint itself.

In this sense, responsibility operates as a conserved quantity that moves across participants rather than disappearing from the system. Relational stability therefore depends not only on the presence of constraint but on how responsibility associated with that constraint is distributed across available integration capacity. Where incoming responsibility exceeds what can be metabolized locally, redistribution becomes the primary mechanism through which continuity is preserved.

Relational information is therefore never neutral. Incoming information always carries responsibility for interpretation, response, and potential behavioral revision. When responsibility can be integrated locally, systems adapt without exporting cost. When integration is not possible, responsibility migrates outward in order to preserve stability.

Treating responsibility as a conserved quantity makes it possible to distinguish between increases in relational load and limits in integration capacity. These are analytically separate conditions. Systems may destabilize because incoming responsibility increases, because integration capacity is limited, or because both conditions occur simultaneously. The distinction between responsibility load and identity elasticity provides the basis for modeling when friction produces learning and when it produces reality distortion instead.

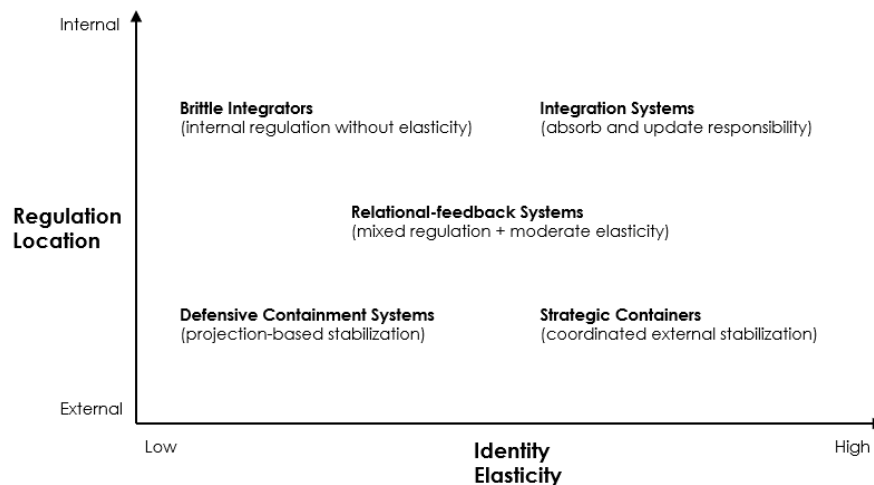
Regulatory strategies are selected at the level of the relational system rather than the individual actor. Individual behaviors therefore reflect system-level stabilization requirements rather than isolated psychological choice, allowing relational outcomes to be interpreted as responses to the interaction between responsibility load and available integration capacity rather than as traits of individual agents.

IDENTITY ELASTICITY & INTEGRATION CAPACITY

Whether responsibility can be integrated internally depends primarily on identity elasticity.

Identity elasticity refers to the degree to which a system can revise its interpretive structure without destabilizing its coherence. Systems with high elasticity are capable of incorporating new information while maintaining continuity. Systems with low elasticity experience incoming responsibility as a threat to stability and must therefore redistribute it outward through reinterpretation, projection, role reassignment, or disengagement. In this way, identity elasticity determines whether friction produces learning or reorganization. The interaction between identity elasticity and regulation location produces distinct regulatory architectures that determine how systems respond when responsibility exceeds available integration capacity.

Figure 2: Identity Elasticity and Regulation Location



Identity elasticity determines whether incoming responsibility can be integrated without destabilizing interpretive structure, while regulation location determines whether stability is maintained internally, relationally, or externally. Together these dimensions distinguish integration systems, brittle integrators, strategic containers, and defensive containment systems.

Observed responses to irrigation quota constraints indicate that participants preferentially adjust behavior within existing production structures before adopting more disruptive structural changes, illustrating how systems preserve continuity while integrating constraint (Drysdale & Hendricks, 2018). This pattern mirrors relational environments in which behavioral adaptation occurs prior to identity-level revision.

Identity threat occurs when incoming responsibility exceeds available elasticity and integration would require revision of a stabilizing identity structure. Under these conditions, systems frequently reorganize through distortion rather than adaptation.

This distinction parallels the microeconomic concepts of adjustment along the intensive and extensive margins. Systems first respond to constraint by modifying behavior within an existing interpretive structure before adopting more disruptive structural change. Intensive-margin adjustment preserves continuity by allowing responsibility to be integrated without altering the framework through which the experience is interpreted. Extensive-margin adjustment, by contrast, requires revision of the framework itself and therefore involves integrating substantially greater responsibility. Identity elasticity describes the range over which systems can accommodate relational load through intensive-margin adaptation before extensive-margin restructuring becomes necessary.

Because extensive-margin revision alters the structure within which interpretation occurs, it represents a substantially higher responsibility-integration threshold than behavioral adjustment alone. Systems with sufficient elasticity can reorganize their interpretive structure while maintaining continuity across time. Systems with insufficient elasticity instead stabilize coherence by redistributing responsibility externally. What appears as defensiveness, reinterpretation, or resistance therefore often reflects an attempt to preserve structural continuity rather than a refusal to engage with information.

Differences in identity elasticity help explain why similar conversations produce dramatically different outcomes across relationships. Where elasticity is sufficient, friction produces learning and adjustment through intensive-margin integration followed, when necessary, by structural revision. Where elasticity is limited, friction produces reorganization through projection, role reassignment, or disengagement as systems attempt to maintain continuity without restructuring identity. In these cases, distortion functions as a stabilizing response to constraint rather than a breakdown of cooperation.

More generally, identity elasticity determines the conditions under which responsibility can be metabolized internally rather than redistributed across a relational field. Systems capable of integrating responsibility across both intensive and extensive margins expand adaptive capacity over time by increasing the range of responsibility that can be metabolized without external stabilization. Systems unable to tolerate extensive-margin revision instead preserve stability by externalizing responsibility, role assignment, and eventual structural disengagement when incoming relational load exceeds available integration capacity.

In this framework, integration occurs when responsibility can be absorbed through intensive-margin adjustment, distortion emerges when intensive-margin adaptation is saturated but extensive-margin revision is avoided, and collapse occurs when structural revision becomes unavoidable but cannot be internally integrated.

When incoming responsibility exceeds what participants can metabolize within existing interpretive structure, constraint enters the relational field and responsibility must be routed through available regulatory pathways.

REGULATORY PATHWAYS IN RELATIONAL SYSTEMS

Relational systems respond to constraint through four primary regulatory pathways. These pathways describe how responsibility is processed once integration becomes necessary.

Which pathway emerges depends on where incoming responsibility can be metabolized: internally within agents, relationally across participants, adaptively through situational coordination, or externally through structural enforcement mechanisms.

Internal regulation occurs when participants incorporate incoming responsibility directly into their interpretive structure, increasing individual integration capacity rather than redistributing coordination demands across the relational field. This pathway increases system capacity over time and supports adaptive stability.

Relational-dialogic regulation occurs when responsibility is processed through mutual interpretation. Participants coordinate meaning through conversation, expanding shared understanding without requiring unilateral revision by any single participant or reliance on external enforcement structures.

Relational-adaptive regulation occurs when participants adjust behavior in response to contextual conditions rather than through explicit interpretive agreement. Coordination is achieved through responsiveness to situational feedback rather than through dialogue alone.

External regulation occurs when responsibility cannot be metabolized within the system itself and must therefore be stabilized through procedural enforcement, authority structures, role definition, or withdrawal of access. Although external regulation preserves continuity, it does so by stabilizing responsibility procedurally rather than increasing the system’s internal integration capacity.

Empirical evidence from locally governed irrigation quota systems further demonstrates that regulatory compliance emerges most efficiently when responsibility is metabolized within the governing environment rather than imposed externally (Drysdale & Hendricks, 2018). This distinction parallels the difference between internally stabilized relational systems and those requiring external enforcement mechanisms.

Taken together, these pathways describe the available routes through which relational systems stabilize responsibility under constraint, determining whether coordination expands through integration or is preserved through external structure.

Figure 3: Three Regulation Architectures

Architecture	Regulation Location	Constraint Binding
Internal-constraint learners	Internal	Before consequence
Relational-feedback learners	Mixed	Through interaction
Constraint-only learners	External	After loss of access

RELATIONAL LOAD & FRICTION

Relational systems encounter friction when incoming demands exceed available capacity, requiring responsibility to be redistributed, integrated, or constrained.

Relational load refers to the quantity of responsibility introduced into a system through contradiction, expectation, change, or new information. Load increases whenever participants are required to revise interpretation, coordinate action, or acknowledge impact across relational boundaries.

Friction arises when relational load exceeds the system's available integration capacity. Rather than representing conflict in itself, friction signals the presence of responsibility that has entered the relational field but has not yet been integrated across participants. It marks the threshold at which systems must either adapt or reorganize.

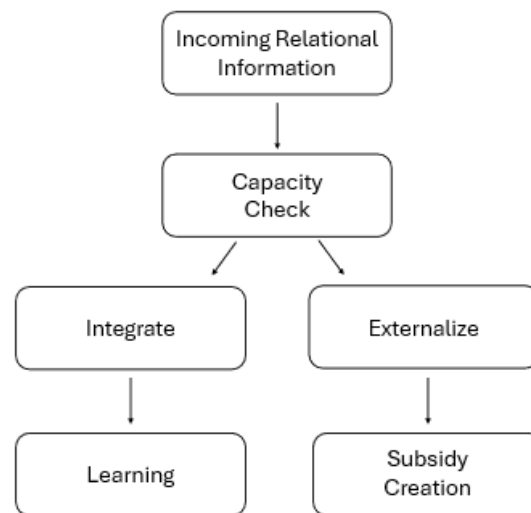
Because relationships function as regulatory environments, friction reflects the interaction between incoming responsibility and available elasticity. Where integration remains possible, friction supports adaptation. Where integration is not possible, friction initiates redistribution processes that preserve continuity through alternative means.

Differences in behavioral response across irrigation governance boundaries further demonstrate that adaptation scales with exposure to constraint rather than with individual preference alone, reinforcing the interpretation of friction as a structural rather than psychological variable (Drysdale & Hendricks, 2018). Friction therefore reflects the interaction between

incoming responsibility and available elasticity rather than the presence of disagreement alone.

How participants interpret incoming responsibility determines whether friction stabilizes into coordination or escalates into distortion. Following Bateson's model of meaning-assignment, relational systems do not respond to events directly – they respond to the significance attributed to those events. Differences in assigned meaning therefore shape whether responsibility is integrated internally, redistributed relationally, or externalized through stabilization strategies that preserve identity coherence rather than coordinating shared reality. Meaning assignment therefore operates as the routing mechanism through which relational systems determine whether friction produces integration, redistribution, or subsidy.

Figure 4: Relational Load Allocation



Rather than indicating failure, friction marks the point at which systems must decide how responsibility will be managed across participants. Where integration capacity expands, friction supports adaptation through shared regulatory adjustment. Where integration capacity remains fixed, friction initiates redistribution processes that preserve continuity without increasing coordination bandwidth. In this way, friction functions as the entry condition for subsidy, marking the transition from distributed integration to asymmetrical stabilization strategies within the relational field.

Therefore, friction determines the threshold at which relational systems shift from integration-based coordination to redistribution-based stabilization, preparing the conditions under which subsidy becomes a necessity.

SUBSIDY & ARTIFICIAL STABILITY

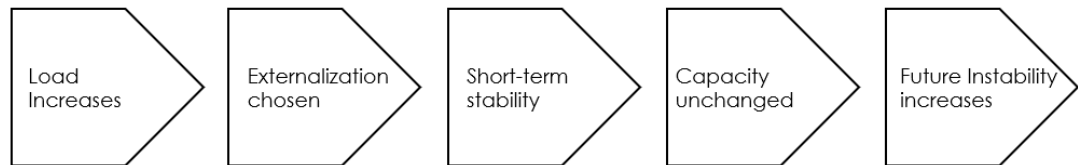
When responsibility cannot be integrated internally, systems often maintain continuity through subsidy. Subsidy occurs when one participant absorbs responsibility that cannot be integrated across the system as a whole.

Under conditions of persistent subsidy, systems may maintain equilibrium without increasing integration capacity, producing stability that is structurally dependent rather than adaptive. Over time, reliance on subsidy increases sensitivity to future friction by concentrating responsibility within specific participants. When those participants reduce their regulatory contribution, instability appears rapidly, not because the system has changed, but because previously hidden redistribution has become visible.

Artificial stability therefore represents equilibrium maintained through redistribution rather than through the expansion of shared integration capacity. Subsidy allows relational systems to continue functioning without resolving the conditions that produced friction.

Rather than increasing integration capacity across participants, responsibility is concentrated within the most elastic or available nodes in the system. This concentration preserves coordination in the short term while preventing the development of distributed regulatory competence.

Figure 5: Artificial Stability Through Externalization



Because subsidy masks unmet integration requirements, systems organized around persistent redistribution often appear stable until regulatory contribution changes. When subsidizing participants reduce their involvement, previously absorbed responsibility re-enters the relational field as visible friction rather than new conflict. Instability emerges not from sudden change, but from the exposure of previously hidden structure.

In this way, subsidy functions as a transitional stabilization strategy between integration and structural reorganization. Where integration remains possible, subsidy delays collapse by preserving continuity. Where integration does not occur, subsidy increases dependence on asymmetrical regulation and prepares the conditions under which distortion or collapse become necessary.

Because subsidy preserves coordination without redistributing interpretive responsibility across the system, it stabilizes continuity while leaving underlying meaning structures unchanged. As a result, persistent subsidy shifts stabilization from shared integration to selective absorption, narrowing the range of responses available when future constraint emerges. When redistribution can no longer maintain equilibrium, systems transition from subsidy-based stabilization to distortion-based stabilization, where continuity is preserved not through responsibility transfer but through reinterpretation itself.

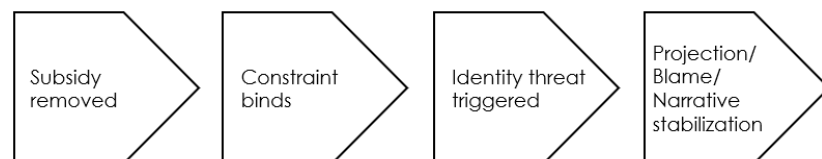
DISTORTION & COLLAPSE AS STRUCTURAL RESPONSE

When integration becomes impossible and subsidy cannot indefinitely maintain equilibrium, systems reorganize through distortion or collapse.

Distortion preserves continuity by redistributing responsibility while maintaining identity coherence. Collapse reflects the loss of regulatory continuity itself and marks the boundary beyond which coordination cannot be preserved without structural reconfiguration.

Distinguishing between these responses clarifies why some conflicts remain cyclical while others produce irreversible relational transitions. Distortion and collapse represent two structurally different responses to unmet regulatory requirements. Distortion allows a system to preserve continuity by reinterpreting responsibility, redefining expectations, or redistributing constraint without altering its underlying identity structure. In distorted systems, coordination remains possible, but only through asymmetrical adjustment. The appearance of stability is maintained while regulatory load is silently transferred across participants.

Figure 6: Constraint Shock Response Sequence



Collapse occurs when redistribution can no longer preserve coherence. At this threshold, the system loses the capacity to coordinate around a shared interpretation of responsibility or constraint. Rather than renegotiating structure, coordination itself becomes discontinuous. What appears externally as conflict escalation or withdrawal is internally a loss of shared regulatory reference.

These responses are not determined by intention or character. They are determined by capacity. When integration bandwidth is insufficient to metabolize constraint, systems reorganize through the least costly available pathway. Distortion preserves identity at the expense of accuracy. Collapse preserves integrity at the expense of continuity.

Understanding this distinction clarifies why some relational environments persist despite repeated strain while others reorganize abruptly. Cyclical conflict signals ongoing distortion-based stabilization. Irreversible transition signals the exhaustion of distortion as a viable regulatory strategy. Relational systems stabilize around meaning structures, not circumstances. Distortion preserves continuity by stabilizing interpretation rather than resolving constraint and making meaning, not circumstance, is the primary mechanism through which relational systems maintain coherence over time.

Relational systems do not stabilize randomly. They stabilize around the meanings through which identity, responsibility, and constraint are interpreted. While this paper describes how regulation moves through relational structures – producing subsidy, distortion, or integration depending on capacity and elasticity – a related extension of this framework examines how meaning assignment interacts with regulatory location and identity stability to influence which relational environments persist over time. Perception expands what becomes visible, but meaning determines what becomes real, and identity stabilization determines what remains structurally sustainable within a given relational field.

CROSS-DOMAIN APPLICATIONS

Although presented in relational terms, the framework applies across organizational scales.

Because responsibility must be metabolized within every coordinated system regardless of scale, the same regulatory pathways govern stability in interpersonal, organizational, and institutional environments.

In families, responsibility redistribution appears as caregiving asymmetries. In partnerships, it appears as interpretive authority imbalances. In institutions, it appears as procedural enforcement structures that compensate for incomplete local integration of responsibility across roles.

Figure 7: Regulation Strategies Across Domains

Domain	Internal Regulation	External Regulation
Relationships	repair	blame
Organizations	adaptation	bureaucracy
Institutions	governance	enforcement
Identity systems	Integration	projection

Across domains, stability depends less on intention than on whether responsibility can be metabolized within the system itself or must instead be stabilized through redistribution or external structure.

For this reason, differences in outcome across relational contexts reflect differences in integration capacity rather than differences in motivation, preference, or moral commitment. This shift from intention-based explanation to capacity-based explanation allows relational dynamics to be analyzed consistently across personal, organizational, and institutional systems.

CONCLUSION: A COORDINATE SYSTEM FOR RELATIONAL DYNAMICS

Responsibility conservation, identity elasticity, regulatory pathway selection, and friction responses together define a structural coordinate system for describing how relational systems behave under constraint.

Rather than treating conflict as unpredictable or subjective, this coordinate system makes relational outcomes interpretable as lawful responses to capacity limits within the system.

By treating relationships as regulatory environments governed by responsibility conservation rather than as exchanges governed solely by intention, Relational Structures™ provides a unified model for analyzing stability across interpersonal, organizational, and institutional contexts. Because these dynamics arise from conserved responsibility under constraint, relational dynamics can be evaluated structurally and modeled consistently across individual perception, relational interaction, and institutional coordination rather than interpreted personally. This allows stability, conflict, and change to be examined within a shared analytical framework across domains.

As a result, relational behavior becomes structurally interpretable rather than narratively inferred, allowing coordination patterns to be compared across systems that would otherwise appear unrelated.

This coordinate system establishes a common structural language for describing how responsibility moves through relational systems, making previously subjective dynamics available for formal analysis across interpersonal, organizational, and institutional environments, and uniquely positioning Relational Structures™ as a framework that recategorizes conflict, stability, and change as properties of system organization rather than as attributes of individual intention.

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