

WHITE-PAPER

THE LOCOMOTIVE MODEL

FUEL THE ENGINE – NOT THE EGO



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Introduction

The Locomotive Model – A Framework for Directional Human Development

Modern psychology has become highly specialized, fragmented into disciplines that each observe a part of human nature, but rarely the whole.

Biology studies the brain; sociology studies the group; philosophy studies meaning. Yet none of them seem to fully explain the machinery that connects instinct, perception, and identity — the invisible mechanisms that drive a person’s choices and emotional direction.

The Locomotive Model (TLM) was developed from a practical necessity rather than academic tradition.

It originated from the observation that most people do not act according to what they know, but according to the internal directional force that governs how they process reality.

This force — a psychological vector — determines whether a person seeks equilibrium or transformation, safety or truth, belonging or individuation.

In other words:

Human nature is not linear — it’s directional.

What we call normal is simply the average direction of the collective.

But every individual grows according to a unique internal geometry, a trajectory influenced by temperament, early environment, emotional exposure, and cognitive patterning.

The Locomotive Model aims to describe this geometry.

It connects biology with behavior, and psychology with philosophy. It does not seek to diagnose or categorize, but to map the internal dynamics that determine whether a person becomes adaptive, stagnant, or self-actualized.

At its core lies the concept of **The Personality Tree** — a visualization of how the self diverges from its instinctual roots into distinct cognitive and moral branches.

This divergence, called the **Primary Split**, marks the point where instinct becomes identity.

From there, each branch represents a distinct psychological direction, not better or worse, but driven by fundamentally different survival logics.

Through this model, human nature can be understood as a system of opposing but complementary forces; one seeking to preserve, the other to transform.

The balance between these forces defines both individual development and societal behavior.

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The Locomotive Model proposes that these directional differences are not disorders, but evolutionary functions.

Each serves a role in the collective stability of humanity; one maintaining the system, the other driving its renewal.

TLM therefore bridges the gap between scientific observation and existential understanding. It explains why people behave the way they do, not only as a reaction to their past, but as a manifestation of their directional identity.

1. Context and Purpose

The modern human being lives in an age of extreme specialization.

We have developed unprecedented knowledge about how things work, from neurotransmitters to economic systems, yet our understanding of why we act the way we do remains fragmented.

Psychology has divided itself into tribes.

Cognitive science studies mental process, behavioral science studies conditioning, humanistic psychology studies meaning, and evolutionary psychology studies adaptation.

Each of them captures a fraction of the truth, but none of them explain the full trajectory of human development from instinct to identity.

This fragmentation has created a paradox:

Our knowledge of the brain has expanded dramatically, yet our understanding of human behavior has become increasingly fragmented.

Clinical frameworks describe symptoms but not direction.

Self-help culture offers motivation but not understanding.

Philosophy explores purpose but somewhat ignores biology.

What's missing is a directional model, something that connects these domains and explains how internal forces generate the external outcomes we observe in individuals, organizations, and societies.

The Locomotive Model (TLM) was built to fill that gap.

It is not a theory of pathology, nor a system of personality typing.

It is a dynamic model of psychological movement — a map of how people change, resist change, and make meaning from that tension.

Its purpose is threefold:

1. To identify the underlying vectors that govern a person's behavioral and emotional direction.
2. To connect the internal mechanics of the self (instinct, emotion, cognition) with the external expressions of that self (values, relationships, performance).

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3. To re-establish psychology as an integrative science — one that sees the individual not as a sum of parts, but as an evolving system with purpose, orientation, and potential.

Where traditional psychology often begins with dysfunction, TLM begins with direction. It assumes that all behavior, even destructive or contradictory, is an expression of an internal drive seeking coherence.

Understanding that drive, its polarity, momentum, and resistance, is the foundation for self-development, leadership, and transformation.

In essence, TLM transforms the question from:

“What’s wrong with this person?”

- to

“In what direction is this person’s internal locomotive moving, and why?”

1.1 Foundational Principles

At the heart of The Locomotive Model lies a simple metaphor, the locomotive as a representation of human direction.

It is not merely poetic; it is a structural analogy that captures the three fundamental dimensions of development: Energy, stability, and orientation.

Just as a locomotive cannot move without an engine, rails, and direction, a person cannot evolve without drive, structure, and purpose.

Together, these three form the functional architecture of TLM.

1.1.1 The Engine — Energy and Identity

The engine represents the source of motion within a person; the sum of instincts, emotions, and identity-forming drives that propel action.

It is where willpower, temperament, and emotion converge into movement.

In psychological terms, the engine corresponds to the individual’s motivational core.

It defines not only how much energy one has, but why that energy is mobilized.

An engine running on fear produces control.

An engine running on curiosity produces growth.

An engine running on integrity produces transformation.

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To master the self, one must first understand the engine: What fuels it, what burns it out, and what keeps it aligned with truth rather than comfort.

1.1.2 The Rails — Structure and Discipline

The rails symbolize the systems that channel the engine's energy.

Without straight and solid rails, even the strongest engine makes the locomotive derail.

These rails are built from routines, principles, habits, and frameworks; the externalized structures that create psychological stability.

They are the behavioral equivalent of a nervous system: Rules, rituals, and ethical boundaries that keep movement coherent under stress.

In human development, rails correspond to discipline and integrity; the ability to hold a chosen path despite emotion, distraction, or fatigue.

They do not restrict freedom; they enable it, by transforming raw potential into directed progress.

1.1.3 The Direction — Purpose and Meaning

The direction represents the vector, the orientation of the self toward an ideal or truth.

It defines where the energy and discipline are leading.

Without direction, structure becomes rigidity, and energy becomes chaos.

Direction is what differentiates mere survival from evolution.

It is here that values, philosophy, and consciousness converge i.e. the capacity to set a trajectory that transcends instinct.

For some, that trajectory points toward harmony; for others, toward transformation.

Both are natural, but only when consciously chosen do they lead to authenticity.

These three components — Engine, Rails, and Direction — interact continuously.

When aligned, they form a stable psychological locomotive: Disciplined, adaptive, and capable of self-correction.

When misaligned, they produce friction, resistance, and self-sabotage.

Thus, the Locomotive Model is not a metaphor about motion, it is a framework about alignment.

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The degree of alignment between energy, structure, and direction defines the quality of a person's development, performance, and inner peace.

2. The Personality Tree – Mapping the Divergence of the Self

Every human being grows from the same psychological soil: Instinct, emotion, and survival. But at some point in early development, the self begins to diverge. That divergence, subtle yet profound, marks the birth of identity.

The Personality Tree, central to The Locomotive Model, visualizes this process as a living structure; a system of roots, trunk, and branches representing the transformation from unconscious drive to conscious direction.

It is not a typology, nor a moral hierarchy, but a *geometry* of growth.

2.1 Roots – The Unconscious System

The roots of the Personality Tree symbolize the instinctual layer of the human psyche: The biological and emotional programs that operate before conscious reasoning emerges.

These roots draw from three primal sources:

- Survival – the biological imperative to preserve life.
- Connection – the emotional imperative to belong.
- Dominance – the adaptive imperative to influence or control one’s environment.

Every human psyche begins in this soil.

These unconscious forces feed the entire tree and even in the most intellectual or moralized individuals, the roots remain active.

When the connection between roots and trunk is severed (through trauma, repression, or denial), the individual loses authenticity; behavior becomes compensatory rather than expressive.

2.2 The Trunk – Integration and the Primary Split

The trunk represents the integrative phase of early development, when instinct and environment begin to interact.

Here, emotion starts to take shape as self-awareness; the sense that “I exist” and “I am separate from others.”

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At this stage, the **Primary Split** occurs.

It is the moment when the psyche adopts one of two fundamental survival logics:

- Preserve and connect – “Life is maintained through harmony, empathy, and protection.”
- Transform and refine – “Life is advanced through struggle, truth, and adaptation.”

These are not moral choices, but directional outcomes of temperament interacting with environment.

They determine whether the self evolves toward stability and cohesion or toward change and individuation.

This split defines the orientation of the entire tree.

Every branch, every leaf — every value, belief, and emotional pattern — will grow according to that initial direction.

The Primary Split emerges in infancy and typically stabilizes between ages two and four as affect regulation, attachment, and prefrontal systems mature. Thereafter, environment chiefly tunes the magnitude and expression of the polarity.

2.3 Branches – The Emergence of Identity

As the tree matures, the unconscious roots and the integrated trunk give rise to branches — distinct psychological trajectories that express how the individual interprets and engages with reality.

Each branch represents a cognitive-moral archetype; a combination of perception, emotion, and behavior that sustains the individual’s chosen logic of survival.

For those growing along the Preservation Path, branches manifest as:

- Empathy, care, and cooperation.
- Avoidance of conflict.
- Preference for stability and belonging.

For those growing along the Transformation Path, branches manifest as:

- Truth-seeking, confrontation, and autonomy.
- Preference for change over comfort.

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- Drive for competence and mastery.

Both paths are essential to human evolution — one preserves the social organism; the other renews it.

Human civilization depends on the tension and collaboration between these two fundamental forces.

2.4 The Canopy – Conscious Ideology

At the top of the tree, branches extend into the open air; the realm of ideas, ethics, and worldviews.

Here the individual organizes beliefs, values, and philosophy to justify and refine their inner direction.

The canopy is where identity becomes ideology.

People begin to build systems — political, religious, cultural — that reflect their underlying orientation.

Thus, the social world mirrors the psychological world:

Societies divided between those seeking preservation and those seeking transformation are merely macro versions of the internal split within every individual.

2.5 Integration – The Mature Tree

Maturity, in the context of The Locomotive Model, is not about choosing one branch over another, but about reconnecting the entire tree.

Integration occurs when the individual becomes aware of both directional forces within — the need for safety and the call for transformation — and learns to balance them consciously.

A mature individual no longer identifies exclusively with one polarity.

They understand that preservation without transformation leads to stagnation, while transformation without preservation leads to chaos.

True self-actualization arises when the roots (instinct), trunk (identity), and branches (values) are aligned under conscious direction.

That alignment produces psychological integrity, the internal equivalent of a perfectly balanced locomotive, moving with both power and purpose.

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3. The Dual Nature of Human Direction

Human nature is built on a paradox:

We are designed both to preserve what is and to transform what can be.

These two directional forces — Preservation and Transformation — form the fundamental polarity of The Locomotive Model.

They are not opposites in the moral sense, but complementary mechanisms in the evolution of consciousness and civilization.

One seeks stability; the other seeks progress.

One protects life; the other refines it.

Together, they generate the tension from which growth emerges.

3.1 The Preservation Force – Stability, Empathy, and Connection

The **Preservation Force** represents the instinct to maintain harmony and continuity.

It is rooted in biology; in attachment, care, and the drive to sustain group coherence.

Its psychological manifestations include:

- Empathy and sensitivity to emotional context.
- Desire for safety, predictability, and belonging.
- Preference for consensus and social approval.
- Resistance to confrontation or destabilization.

At its best, this force produces compassion, loyalty, and resilience.

At its worst, it manifests as conformity, avoidance, and stagnation.

It is the energy that builds families, sustains communities, and keeps societies from collapsing into chaos.

But if left unchecked, it can suppress truth, innovation, and individual authenticity.

Preservation, therefore, is the psychological equivalent of homeostasis — the maintenance of equilibrium within systems that fear disruption.

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3.2 The Transformation Force – Truth, Struggle, and Renewal

The **Transformation Force** is born from the opposite instinct: the drive to confront reality, to test limits, to refine what is weak or false.

Where Preservation says “stay safe”, Transformation says “become stronger.”

Its psychological expressions include:

- Attraction to conflict, challenge, and change.
- Preference for autonomy over conformity.
- High tolerance for discomfort and uncertainty.
- Drive to deconstruct illusions and rebuild from truth.

At its best, Transformation yields wisdom, innovation, and courage.

At its worst, it turns into destruction, arrogance, or alienation.

It is the fire that fuels science, art, and self-actualization, but when detached from empathy, it can become predatory or nihilistic.

Transformation, therefore, is the psychological counterpart of evolution — the mechanism that prevents life from decaying into complacency.

3.3 The Tension – Where Meaning is Born

The essence of human experience lies in the dynamic balance between these two forces.

Preservation without Transformation becomes comfort-seeking stagnation.

Transformation without Preservation becomes reckless chaos.

Meaning — personal, moral, and collective — emerges in between.

It is within that tension that individuals discover integrity, purpose, and growth.

The human journey is not about choosing sides, but learning to carry both forces without collapsing into either.

The Locomotive Model therefore views psychological maturity as directional balance: The ability to sustain both connection and truth, empathy and confrontation, care and courage — without denying either.

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3.4 The Societal Reflection

On a collective scale, this polarity defines the evolution of civilization itself. Cultures, ideologies, and political systems are external expressions of the same internal split.

Preservation-dominant societies value equality, security, and cohesion — but risk suppression of individuality.

Transformation-dominant societies value innovation, merit, and freedom — but risk fragmentation and inequality.

History oscillates between these poles: Order giving birth to reform, reform giving birth to order. Neither side can permanently dominate without collapsing under its own excess.

The Locomotive Model interprets these cycles as psychological oscillations on a civilizational scale; the same dual forces operating at the macro level of humanity that govern the micro level of the individual psyche.

3.5 Integration as Directional Mastery

Mastery, both personal and societal, is not achieved through dominance of one force but through their integration.

It requires the humility of Preservation and the courage of Transformation working in synchrony — like the left and right rails guiding the same locomotive forward.

In TLM terms, integration is directional mastery:

The conscious alignment of energy, discipline, and purpose across both polarities.

It transforms contradiction into tension, and tension into motion.

4. Directional Pathways of the Self

Dual Trajectories of Growth

While the dual forces of Preservation and Transformation exist in every person, the way they unfold depends on both internal orientation and external context.

A person’s core direction — the split in the trunk — remains constant, but the branches may grow, intertwine, and integrate as awareness deepens.

Human development therefore moves along two complementary pathways, each defined by the individual’s primary orientation:

Core Direction	Primary Drive	Developmental Trajectory	Fundamental Lesson
Preservation-oriented	Safety, empathy, belonging	<i>Adaptation → Resistance → Individuation</i>	From dependency toward autonomy
Transformation-oriented	Truth, mastery, autonomy	<i>Individuation → Resistance → Adaptation</i>	From isolation toward connection

Growth, in the Locomotive Model, is not a straight ascent but a return to balance.

Each person travels in the direction opposite their dominant bias, integrating the qualities they once neglected.

4.1 Phase One – Adaptation

Keyword: Belonging

Adaptation represents the phase of psychological dependency and social learning. It is where the Preservation Force dominates, seeking safety through acceptance and coherence with the collective.

In this state, the self learns to survive by mirroring its surroundings. Morality is borrowed; identity is constructed through reflection.

“If I fit in, I will be safe.”

For Preservation-oriented individuals, this is their starting point; a necessary foundation that later must be transcended.

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For Transformation-oriented individuals, Adaptation becomes the destination; a rediscovery of empathy, humility, and the need for others.

Virtues: Empathy, cooperation, social harmony.

Risks: Over-conformity, dependency, avoidance of truth.

4.2 Phase Two – Resistance

Keyword: Confrontation

Resistance emerges when the counter-force awakens.

For the Preservation-oriented, it is the spark of independence; for the Transformation-oriented, it is the pushback against vulnerability.

Here the self begins to test its boundaries through friction and questioning.

“If I challenge what is false, I might discover what is true.”

Resistance is the crucible of change — but if one remains trapped in opposition, rebellion becomes dependence in disguise.

Virtues: Courage, critical thought, authenticity.

Risks: Isolation, arrogance, chronic dissatisfaction.

In both directions, Resistance serves the same function: to expose imbalance — either excessive conformity or excessive detachment.

4.3 Phase Three – Individuation

Keyword: Alignment

Individuation marks the reconciliation of the opposing forces.

It is not identical for everyone:

For the Preservation-oriented, Individuation is the achievement of autonomy; acting from inner truth rather than collective expectation.

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For the Transformation-oriented, Individuation is the acceptance of connection; acting with empathy rather than egoic isolation.

“I act in accordance with what is true, not with what is safe or expected.”

At this stage, the self integrates empathy with strength, care with clarity. Preservation becomes compassion rather than fear; Transformation becomes refinement rather than rebellion.

Virtues: Integrity, self-direction, humility under pressure.

Risks: Over-isolation, existential burden of responsibility.

Individuation, whichever direction it’s reached from, represents alignment — the balanced locomotive running on both rails.

4.4 The Cyclical and Reciprocal Nature of Growth

These phases are not fixed or sequential; they form a reciprocal loop between autonomy and belonging.

Under new life conditions, individuals may reverse direction: from independence back into connection, or from comfort back into challenge. This is not regression — it is recalibration of balance.

Growth, in TLM, is directional yet dynamic; a continuous oscillation between the two forces that sustain psychological motion.

The question is never “how far” one has advanced, but whether one’s inner locomotive remains under conscious guidance or drifts toward one-sidedness.

4.5 Directional Awareness

The purpose of The Locomotive Model is not to label, but to awaken directional awareness — the recognition of which force currently governs perception and decision.

When awareness is active, the individual can self-correct:

- Expanding from Preservation into Transformation when comfort turns stagnant.
- Returning from Transformation into Preservation when autonomy turns isolating.

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This capacity to steer consciously between forces is Directional Mastery — the essence of psychological freedom.

5. The Locomotive Dynamics

The Mechanics of Psychological Motion

If the Personality Tree describes the anatomy of human development, then The Locomotive Dynamics describe its physiology: How the system moves, adapts, and self-regulates in real time.

At its core, TLM views the human being as a self-propelling psychological engine. Emotion provides energy, cognition provides control, and direction provides meaning. When these components are aligned, the system produces purposeful motion. When misaligned, it generates friction, resistance, or collapse.

The result is a dynamic cycle — an ongoing exchange between energy, perception, and adaptation — known in TLM as **The Energy Loop**.

5.1 The Energy Loop

The Energy Loop is the continuous circulation of psychological force between three domains:

- Emotion (E) – The raw energy of the system; the engine’s combustion.
- Cognition (C) – The control system that interprets, labels, and channels energy.
- Direction (D) – The orienting principle that gives purpose to the flow of energy.

These components interact through a feedback process:

Emotion → Cognition → Direction → Emotion (recalibrated)

When this loop operates coherently, emotion fuels constructive behavior, cognition translates it into understanding, and direction refines it into purpose.

When broken, energy leaks into anxiety, overthinking, or meaninglessness.

For example:

A Preservation-oriented mind interprets emotional energy through the lens of safety, leading to withdrawal when stress rises.

A Transformation-oriented mind interprets the same energy through truth, leading to confrontation or change.

In both cases, the emotional potential is the same — but its interpretation and direction differ. Preservation constrains the flow of that energy; Transformation releases it. Mastery of the Energy Loop does not require emotional suppression, but emotional calibration: The capacity to channel energy consciously (response) rather than reactively (reaction).

5.1.1 Awareness Gradient

The development of directional mastery follows a gradient of awareness long recognized in educational and psychological research (See ANNEX A – Empirical Reference Map). First introduced in the 1960s by Noel Burch (Gordon Training International) as The Four Stages of Competence, the model describes how individuals progress from ignorance to effortless skill.

Within The Locomotive Model, this process is interpreted not only as cognitive learning, but as energetic calibration — the gradual synchronization between Emotion, Cognition, and Direction within the Energy Loop.

Stage	Original Concept	TLM Interpretation
1. Unconscious Incompetence	The individual does not recognize their lack of skill.	The psyche operates reactively; emotion drives without cognitive guidance.
2. Conscious Incompetence	Awareness of deficiency emerges.	The system detects misalignment; friction increases as cognition begins to observe emotion.
3. Conscious Competence	The skill can be performed with effort and focus.	Emotion is now regulated by structure; cognition and direction actively steer the engine. It runs on raw discipline.
4. Unconscious Competence	The skill becomes automatic and integrated.	Alignment is embodied; the locomotive runs smoothly without overcontrol or emotional leakage. You respond, you don't react.

This gradient shows that awareness itself can be trained — that conscious regulation eventually becomes intuitive integrity.

TLM does not replace the classic competence model — it extends it into the emotional-directional domain, turning skill acquisition into a map of inner alignment.

5.2 The Friction Curve

All systems in motion experience friction; the resistance encountered when internal direction meets external reality.

In TLM, friction is the psychological tension that arises when personal truth conflicts with environmental expectations.

The Friction Curve illustrates the relationship between resistance and adaptation:

Zone	Description	Psychological Outcome
Low Friction	Full alignment between self and environment.	Comfort, routine, potential stagnation or complacency.
Optimal Friction	Manageable tension; challenge balanced with capability.	Growth, engagement, flow.
Excessive Friction	Overload; reality exceeds the self's adaptive structure.	Burnout, anxiety, identity fragmentation.

The Friction Curve is essential to understanding why individuals alternate between periods of expansion and withdrawal.

- When friction is too low, transformation halts.
- When too high, the system protects itself through regression into Preservation.

True psychological evolution occurs at the peak of optimal friction; where resistance is high enough to demand adaptation, but not high enough to cause collapse.

5.3 The Directional Override

While emotion drives and cognition regulates, direction governs priority.

In moments of stress, humans often experience a directional override — one force (Preservation or Transformation) temporarily takes command of the system to restore equilibrium.

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This can occur in two major forms:

Preservational Override:

- Triggered by fear, greed, uncertainty, or perceived threat.
- Cognitive control narrows; focus shifts to protection and short-term stability.

Outcome: Reduced innovation, higher conformity, temporary safety or, in performance contexts, ego-driven impulsivity disguised as control.

This form of override often manifests as over-management, revenge action, or short-sighted solutions that preserve psychological comfort at the cost of strategic integrity.

Transformational Override:

- Triggered by frustration, stagnation, or existential dissonance.
- Cognitive control opens; boundaries dissolve to allow reinvention.

Outcome: Breakthrough, innovation, or crisis depending on stability of rails.

When unmanaged, this override produces overextension, impulsive experimentation, and false breakthroughs — actions driven by conviction rather than calibration.

In performance settings, it can manifest as overconfidence or the illusion of control, where energy exceeds structure and the engine outruns its rails.

Directional overrides are neither good nor bad, they are safety valves in the system. However, chronic dominance of one override leads to imbalance:

- Excessive Preservation breeds fear and paralysis.
- Excessive Transformation breeds chaos and disconnection.

Awareness of which override is active allows conscious self-correction — the psychological equivalent of re-centering the locomotive on its rails.

In essence, the two overrides mirror each other:

One protects by contraction, the other collapses by expansion — both are expressions of misaligned or unbalanced energy seeking equilibrium.

5.4 The Alignment State

When the Energy Loop operates coherently, friction is optimal, and no override dominates, the individual reaches The Alignment State.

This is the optimal psychological condition for performance, creativity, and emotional stability.

In this state:

- Emotion provides stable energy without volatility.
- Cognition interprets reality accurately, without bias.
- Direction remains clear, unaffected by temporary discomfort.

Alignment is not euphoria — it is neutrality under pressure.

It is the psychological equivalent of a perfectly balanced engine: Running at full capacity, producing motion without waste.

This state can be cultivated through disciplined awareness; by monitoring energy (emotion), clarity (cognition), and integrity (direction) in real time.

5.5 System Collapse – The Derailment Mechanism

When friction exceeds the structural capacity of the rails, the system derails.

In psychological terms, derailment occurs when one of the following conditions is met:

Energy Overload: Emotion exceeds cognitive capacity to regulate it (panic, rage, impulsivity).

Cognitive Distortion: Interpretation becomes biased toward fear or grandiosity (denial, projection).

Directional Loss: The sense of purpose collapses (meaning crisis, apathy, nihilism).

Each derailment type leads to predictable behavioral outcomes:

- Overload → Reactive behavior.
- Distortion → Misjudgment and conflict.
- Loss → Withdrawal or depression.

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The system naturally attempts to recover by retreating to Preservation which is the lowest energy survival state in terms of outward activity. Yet the emotional potential remains latent beneath the surface.

The challenge of development is to re-ignite the engine without re-entering destructive loops.

5.6 Restoring Motion – The Realignment Protocol

TLM defines Realignment as the conscious process of restoring coherence between Energy, Cognition, and Direction after derailment.

It involves three corrective actions:

- Stabilize Energy – Reduce volatility through grounding, breath, and structure.
- Recalibrate Cognition – Replace distorted narratives with neutral observation.
- Re-establish Direction – Reconnect with a meaningful trajectory, however small.

When performed in sequence, these steps restart the Energy Loop with minimal friction, just as a stalled locomotive regains motion by cleaning its engine's filters.

Summary Principle:

Most human dysfunctions are not failures of capacity — they are misalignments of energy, cognition, and direction.

Recovery often begins not with added force, but with restored coherence.

Directional Note — The Sequence of Hope

In most motivational models, hope is treated as the starting fuel of progress.

In The Locomotive Model, hope is the final emission of a system in alignment — the wheels' rhythmic drumming on the rails once the locomotive has reached its intended speed.

The consistent rhythmic drumming against the rails is an indication that the end station is getting closer — that one may start to hope for a timely arrival.

Hope becomes reliable only when it follows a precise energetic order:

Perception → Realism → Action → Positivity → Hope.

- Perception — seeing reality as it is, without projection or denial.

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- Realism — accepting it, however uncomfortable.
- Action — moving according to truth, not emotion.
- Positivity — the emotional equilibrium that follows coherent action.
- Hope — directional trust; the calm conviction that motion itself is meaningful even when the outcome is uncertain.

When hope appears too early in the cycle, it becomes illusion — a preservational defense against discomfort.

When it appears in its rightful sequence, it signals alignment between emotion, cognition, and direction.

Hope is not fuel.

It is proof that the engine runs true.

6. Applications of the Model

From Theory to Praxis

The Locomotive Model (TLM) was not designed as an academic abstraction, but as a functional system; a framework for diagnosing misalignment and restoring directional integrity in any human context.

Because TLM operates on universal psychological mechanics — Energy, Structure, and Direction — it can be applied across multiple scales of complexity: From individual development to team dynamics, to collective culture.

6.1 Personal Development and Therapy

Focus: Directional Awareness & Self-Alignment

In individual work, TLM provides a structure for understanding the *why* behind emotional patterns and behavioral loops.

Traditional therapeutic frameworks often emphasize *symptom relief*; TLM emphasizes directional coherence.

Core Applications:

Mapping the Current Direction: Identifying whether the person operates primarily under Preservation (seeking safety) or Transformation (seeking truth).

Energy Diagnosis: Recognizing if emotional fuel comes from fear, guilt, purpose, or curiosity, and how that affects motion.

Friction Calibration: Determining whether stress levels are suppressing growth or enabling it.

Realignment Protocol: Reconnecting energy, cognition, and direction after derailment.

Practical Outcomes:

- Improved self-regulation and focus.
- Reduction of repetitive emotional loops.
- Restoration of purpose after crisis or stagnation.

TLM aligns naturally with cognitive-behavioral, existential, and psychodynamic approaches, providing a structural lens through which their underlying dynamics can be seen as parts of the same human system.

6.2 Leadership and Organizational Culture

Focus: Directional Integrity in Systems

Within organizations, the same principles govern team performance that govern the individual psyche: Energy, structure, and direction must align.

TLM offers a diagnostic lens for understanding both leadership style and cultural imbalance.

Applications:

Leadership Typology:

- Preservational Leaders prioritize stability, safety, and inclusion.
- Transformational Leaders prioritize innovation, challenge, and truth.

Both are necessary — one maintains structure, the other drives evolution.

Leadership is contextual.

In an organization, Transformation drives performance; Preservation protects integrity.

TLM does not dictate which should lead but ensures they move in rhythm — so that innovation never outruns structure, and structure never suffocates purpose.

Cultural Friction Mapping:

Identifying whether organizational stagnation stems from over-Preservation (bureaucracy, excessive inclusivity, or protection of mediocrity) or from over-Transformation (instability, aggression, or alienation).

In human terms, cultural friction also reveals misplaced authenticity; when people's inherent strengths are constrained or misaligned with the environment.

An over-Preservational culture may prioritize belonging over performance, lowering standards in the name of inclusion.

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An over-Transformational culture may glorify disruption and performance to the extent that empathy, patience, and collaboration are driven out.

Both extremes erode alignment: one suppresses potential, the other exhausts it.

Sustainable culture arises not from uniformity, but from directional diversity — different personalities moving toward a shared purpose.

Alignment Workshops:

Using the Engine–Rails–Direction framework to realign teams, departments, and leadership structures toward a shared purpose without erasing individuality.

Practical Outcomes:

- Increased coherence between mission and daily behavior.
- Healthier balance between innovation and consistency.
- Reduction of emotional burnout and internal resistance.

In this context, the leader becomes the locomotive, the stabilizing engine that transforms friction into progress rather than regression.

Marginal Note – Vertical and Horizontal Alignment

Organizational alignment depends on coherence both vertically (between leadership, departments, and teams) and horizontally (across collaborative functions). Sustainable performance arises when strategic direction and operational behavior remain synchronized at every level of the system.

6.3 Society, Education, and Collective Development

Focus: Directional Balance at Scale

At the collective level, TLM provides a macro-psychological lens through which cultural and political trends can be interpreted.

Modern societies oscillate between Preservation-dominant eras (safety, equality, welfare) and Transformation-dominant eras (competition, discovery, reform).

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Applications:*Societal Diagnosis:*

Recognizing when a culture is entering stagnation (too much Preservation) or fragmentation (too much Transformation).

Educational Reform:

Designing learning systems that cultivate both empathy and critical confrontation — producing balanced citizens rather than polarized ones.

Policy and Dialogue:

Encouraging governance that treats conflict as feedback, not failure, maintaining tension as the engine of civilization.

Practical Outcomes:

- Reduced ideological polarization.
- Education that builds resilient, adaptive individuals.
- A more integrated collective identity, capable of evolution without collapse.

In this sense, TLM acts as a psychological gyroscope for societies, helping them maintain direction through inevitable cycles of change.

6.4 Integrative Summary

Whether applied to an individual, an organization, or a nation, the logic remains identical:

- Energy without Structure leads to chaos.
- Structure without Direction leads to stagnation.
- Only their alignment produces sustainable motion.

The Locomotive Model is therefore not just a theory of personality, but a framework for sustainable transformation — in people, systems, and civilizations alike.

7. Implications and Future Development

Re-defining the Study of Human Direction

The Locomotive Model builds on a growing movement in psychology that views the mind as a dynamic system rather than a static inventory of traits.

Its contribution lies in mapping this dynamic as directional — a living mechanism of motion, tension, and adaptation that links energy, cognition, and purpose.

This integrative lens refines, rather than replaces, existing models and offers new implications for how we study, measure, and develop human potential.

7.1 Theoretical Implications

From Taxonomy to Dynamics

Much of psychology has described personality through static taxonomies — systems of traits and types.

TLM builds on the growing shift from classification to dynamics, from what we are to how we evolve.

Instead of asking “Who is this person?”, the relevant question becomes “In what direction is this person evolving — and under what tension?”

Integration of Biology, Psychology, and Philosophy

TLM unites empirical neuroscience (energy systems), cognitive-behavioral models (rails and regulation), and existential philosophy (direction and meaning).

It provides a common language for discussing consciousness across scientific and philosophical boundaries.

Re-interpretation of Disorder

Many psychological disorders can be understood as directional imbalances:

Over-activation of Preservation (e.g., anxiety, dependency) or Transformation (e.g., mania, alienation).

This interpretation does not reject clinical treatment; rather, it reframes many symptoms as expressions of misaligned adaptive systems rather than inherent dysfunctions.

Traditional therapy often focuses on reducing symptoms, teaching individuals to act against their own patterns in order to feel “better.”

For some, this approach restores function.

For others, it deepens the inner conflict by denying what is natural in them.

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The Locomotive Model proposes that recovery is not achieved merely by suppressing expression, but by restoring coherence between the underlying directional forces; transforming imbalance into integration, and impulse into intentional direction. This does not dismiss the need for clinical restraint where behavior is harmful or unsafe, but suggests that even in such cases, regulation is most effective when it addresses the root misalignment rather than only the symptom.

Ethical Reorientation

By showing that both forces — care and confrontation — are necessary, TLM challenges moral dualism.

It reframes ethics as the art of maintaining creative tension between empathy and truth.

Ethical Reorientation in TLM redefines morality as the art of balance rather than obedience. Instead of dividing human impulses into good and bad, it interprets them as complementary forces within a single ethical system.

Care without confrontation breeds stagnation; confrontation without care breeds destruction. The ethical act, therefore, is not to choose one over the other, but to hold both in conscious tension — to act with empathy and truth simultaneously.

7.2 Methodological and Research Applications

TLM opens new pathways for empirical validation and measurement:

Directional Profiling

Development of psychometric tools to quantify Preservation vs. Transformation bias, Energy stability, and Alignment capacity.

Such metrics could enhance personality assessment, team-matching, and leadership diagnostics.

Behavioral Modelling and AI

Integrating TLM into AI and machine-learning systems allows algorithms to simulate directional decision-making rather than binary logic.

An AI trained on TLM principles could model human motivation in a more ethically grounded and context-aware way, which could be useful in education, therapy support, and adaptive coaching.

Longitudinal Human Development Studies

Mapping transitions between Adaptation, Resistance, and Individuation phases could produce measurable data on psychological resilience, career performance, and life satisfaction.

Future research could also explore both vertical development, the evolution of internal meaning-making structures, and lateral development, the expansion of behavioral and emotional capacities within a given level.

This dual-axis model would allow TLM to bridge individual growth with organizational and cultural evolution.

Cross-disciplinary Collaboration

Neuroscientists, philosophers, behavioral economists, and systems engineers can use TLM as a unifying meta-framework — a bridge between the quantitative and qualitative sciences.

Practically, this could involve translating directional dynamics into computational models of motivation, adaptive systems design, and behavioral prediction — or using TLM's structure to interpret qualitative data through a coherent systems lens.

7.3 Educational and Cultural Impact

Education currently rewards cognitive compliance more than directional awareness.

By applying TLM, curricula could be redesigned to:

- Encourage tension-tolerance rather than comfort-seeking.
- Teach students to identify their active force (Preservation/Transformation) and use it constructively.
- Develop ethical reasoning as a balance between empathy and truth, not as adherence to authority.

In culture, TLM offers an *antidote to polarization*:

Understanding that opposing worldviews stem from complementary psychological forces reframes conflict as a dialogue between functions, not ideologies.

7.4 Philosophical Implications

At a deeper level, TLM re-defines the concept of self.

It suggests that identity is not a substance, but a process of continuous alignment — a locomotive forever in motion between chaos and order.

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Freedom, then, is not the absence of constraint, but the capacity to steer within constraint.

This interpretation re-connects psychology with its existential roots:
Meaning is not found at rest, but in motion toward coherence.

7.5 Future Development

The Locomotive Model remains an open framework — designed for evolution, not dogma.

Its next frontiers include:

- Empirical Research: Controlled studies testing TLM's predictive validity on motivation, resilience, and adaptability.
- Digital Integration: Development of interactive platforms for real-time Alignment tracking using biometric and cognitive data.
- Educational Pilots: Implementing TLM-based curricula focused on directional awareness and emotional mechanics.
- Therapeutic Methodology: Formalizing the Realignment Protocol as a structured, evidence-based intervention model.

Ultimately, the goal is to establish Directional Science — a potentially new interdisciplinary field dedicated to understanding how human systems generate, sustain, and restore purposeful motion.

Marginal Note – Definition of Directional Science:

Directional Science is proposed as an interdisciplinary field uniting neuroscience, psychology, philosophy, and systems theory to study how human systems generate, sustain, and restore purposeful motion.

It integrates biological regulation, cognitive adaptation, and existential orientation into a single functional model of direction.

7.6 Limitations & Scope

The Locomotive Model (TLM) is designed as a conceptual framework rather than a diagnostic or quantitative instrument.

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Its principles synthesize evidence-based insights from psychology, neuroscience, and systems theory, blending these with philosophy (primarily stoic) and lived experience, and shaping them into a functional geometry of human motion.

To make this possible, the model intentionally simplifies several domains, such as motivation, moral reasoning, and emotional regulation, into two primary directional forces (Preservation and Transformation).

This reduction is not intended to diminish complexity, but to make the system operational across contexts.

While many components of TLM align with established research — including affect–cognition integration, optimal arousal theory, predictive processing, and moral pluralism — the framework remains heuristic in nature.

It aims to map coherence, not to measure it.

Ethical and Clinical Boundary:

The Locomotive Model is not a clinical treatment for mental illness.

It assumes psychological functionality as a baseline and is intended for understanding and developing direction, coherence, and potential within that range.

Severe psychopathologies — such as psychosis, antisocial behavior, or neurodegenerative disorders — require specialized medical or therapeutic intervention beyond the scope of TLM.

The model's value lies in conceptual reframing and practical alignment, not in diagnosis or symptom suppression.

In this sense, TLM complements therapeutic and coaching frameworks by clarifying the directional mechanisms underlying motivation and adaptation.

Personality and temperament are therefore treated as relatively stable orientations whose expression can be modulated through experience.

Likewise, the developmental phases (Adaptation–Resistance–Individuation) describe typical trajectories rather than rigid sequences.

TLM should be understood as a directional theory of balance — a bridge between science, philosophy, and lived experience — rather than a closed psychological system.

7.7 Closing Reflection

The Locomotive Model began not in academia but in observation — in the struggle to reconcile logic with emotion, discipline with humanity, control with meaning.

It proposes that the human journey is not toward perfection, but toward alignment: The moment when one’s engine, rails, and direction move as one.

When motion becomes coherence,
and coherence becomes freedom,
that is when the locomotive truly runs.

7.8 Practical Implementation – The Ten Core Principles

While The Locomotive Model™ defines the psychological and structural mechanics of human motion, its practical implementation is expressed through ten operational principles known collectively as The Locomotive Philosophy.

These principles translate the model’s theoretical framework — Energy, Cognition, and Direction — into tangible routines of structure, discipline, and consistency.

Each principle corresponds to one functional component of the locomotive system:

1. The Engine Principle – Identity before Outcome

You are the engine. Identity precedes performance. Strength is built through maintenance, not by admiring results.

2. The Fuel Principle – Consistency over Intensity

Sustainable power comes from a clean, steady burn — not emotional peaks.

3. The Rail Principle – Systems before Feelings

Systems provide continuity when motivation fades. Rails keep motion linear when emotions fluctuate.

4. The Maintenance Principle – Respect the Machine

Structure and discipline act as preventive mechanics — reducing psychological breakdown before it occurs.

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5. The Cargo Principle – Detachment from Validation

The wagons will always change; your responsibility is to maintain direction, not to control content.

6. The Consistency Principle – Invariance under Conditions

Character is revealed when stability is self-generated. True discipline endures across environments.

7. The Signal Principle – Awareness and Adjustment

Feedback is calibration, not weakness. Observation prevents derailment.

8. The Recovery Principle – Strength through Stillness

Recovery is not retreat — it is the maintenance interval that makes long-term motion sustainable.

9. The Direction Principle – Clarity before Speed

Precision precedes performance. A train at full speed on the wrong track only accelerates its own error.

10. The Legacy Principle – Purpose through Progress

The locomotive moves not to impress, but to sustain motion itself. Purpose emerges through disciplined continuity.

Together, these ten principles operationalize the philosophy behind *The Locomotive Model™*.

They serve as the practical interface between theory and behavior, enabling the model to be applied in real contexts such as trading, leadership, performance, and psychological resilience.

For a detailed overview, visit:

www.barnacle.se/the-model

8. Executive Summary

The Locomotive Model – A Framework for Directional Human Development

The Locomotive Model (TLM) is a unifying framework that explains human behavior not as a set of traits, but as a directional system — a dynamic interplay between energy, structure, and meaning.

It integrates principles from neuroscience, psychology, philosophy, and systems theory to describe how people move, adapt, and evolve.

Core Premise

Human nature is fundamentally directional, not static.

Every individual operates under two complementary psychological forces:

- Preservation — the drive to maintain safety, connection, and stability.
- Transformation — the drive to pursue truth, growth, and renewal.

The tension between these forces forms the basis of consciousness, behavior, and social evolution.

TLM provides the geometry and mechanics to map and balance that tension.

Structural Components

Component	Function	Analogy
The Engine	Emotional–motivational energy; will and temperament	The source of motion
The Rails	Discipline, structure, principles	The guidance system
The Direction	Purpose, values, and meaning	The orienting vector

When these three components are aligned, the human system operates with stability and purpose.

Misalignment produces friction, stagnation, or collapse.

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The Personality Tree

TLM visualizes the evolution of self through the Personality Tree, a living model of divergence:

Roots: Instinct and unconscious drives.

Trunk: *The Primary Split* — the decision between preservation and transformation as dominant logic.

Branches: Cognitive–moral identities that grow from that split.

Canopy: Conscious ideology — how personal direction becomes cultural expression.

Maturity arises when the entire tree (instinct, emotion, and belief) becomes integrated and self-aware.

The Locomotive Dynamics

TLM models the mechanics of psychological motion through:

The Energy Loop – continuous feedback between Emotion, Cognition, and Direction.

The Friction Curve – the optimal tension zone where growth occurs.

Directional Override – automatic safety shifts between Preservation and Transformation.

Realignment Protocol – method for restoring coherence after derailment.

These principles make the model operationally testable and applicable across scales.

Applications

- Personal Development & Therapy – diagnosing directional imbalance, restoring emotional–cognitive coherence, and cultivating resilience.
- Leadership & Organizational Culture – aligning energy (motivation), rails (structure), and direction (vision) to balance innovation with stability.

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- Society & Education – reframing political and cultural polarization as functional tension between Preservation and Transformation, enabling constructive dialogue and adaptive reform.
- Trading Psychology & Elite Performance – training the mind to maintain alignment under uncertainty, transforming volatility into information and pressure into precision.

Research & Technological Potential

Empirical Validation: Psychometric tools to measure directional bias and alignment capacity.

AI & Behavioral Modelling: Training adaptive systems on directional logic rather than binary reward structures.

Educational Design: Curricula that cultivate tension-tolerance and purpose-based thinking.

Therapeutic Integration: Evidence-based protocols for Realignment and emotional regulation.

Philosophical and Ethical Insight

TLM reframes identity as motion toward coherence — freedom not as absence of constraint, but as conscious control of direction within constraint.

It restores balance between empathy and truth, comfort and challenge, self and system.

Strategic Vision

The Locomotive Model aims to found a new interdisciplinary field:

Directional Science — the study of how human systems generate, sustain, and restore purposeful motion.

Its mission is to bridge the gap between knowledge and understanding, between data and direction.

By doing so, it offers a coherent framework for individual mastery, organizational integrity, and civilizational balance.

In motion lies meaning.

In alignment lies freedom.

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ANNEX A

Reference Map – Empirical Foundations and Conceptual Links

The Locomotive Model was developed through a combination of Science, Philosophy (mainly stoic), Jungian theories and lived experience.

Some areas in the model are highly conceptual and backed primarily by life experience, while other areas are strongly backed by science and comprehensive research.

We believe that it is essential for the authenticity and trustworthiness of the model to be transparent and realistic about the gaps between the model and science. The table and graph below have been developed to visualize the relationships between the TLM components and empirical support.

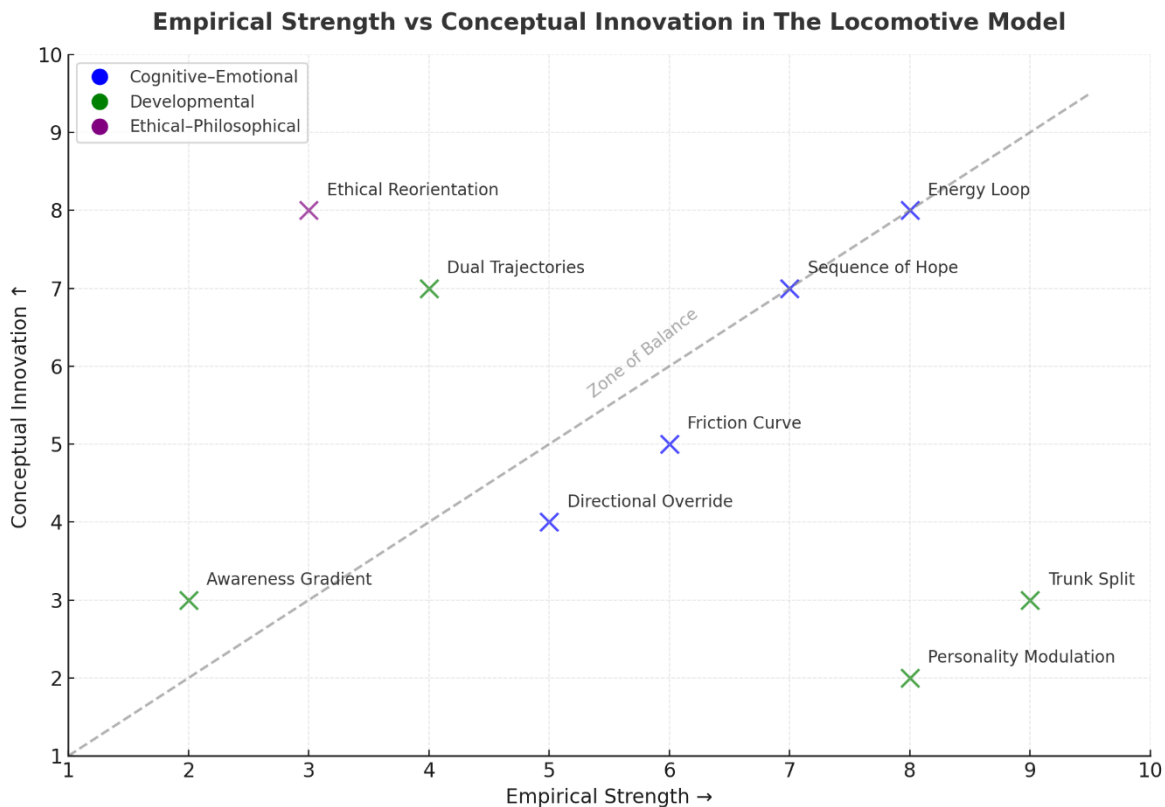
TLM Component	Closest Empirical / Theoretical Foundation	Level of Empirical Support	Key References
Trunk Split (core temperament)	Personality trait stability & modulation over lifespan	Strong	Roberts & DelVecchio (2000)
Energy Loop (emotion–cognition–direction)	Affective–cognitive integration, emotion regulation networks	Strong	Pessoa (2008, 2010)
Friction Curve (growth through tension)	Yerkes–Dodson law; Flow theory; optimal stress zone	Moderate	Yerkes & Dodson (1908); Nieuwenhuis (2024); Csikszentmihalyi
Directional Override (system safety shift)	Predictive Processing / Active Inference frameworks	Moderate	Friston (2010); Corlett (2020)
Dual Trajectories (Preservation ↔ Transformation)	Organizational ambidexterity (exploration–exploitation balance)	Moderate	O’Reilly & Tushman (2013); Kassotaki (2022)
Ethical Reorientation	Moral Foundations Theory (plural moral intuitions)	Moderate	Graham & Haidt (2013); Braicovich (2022)
Awareness Gradient	Four Stages of Competence (Noel Burch, 1960s)	Conceptual	Gordon Training International (c.1970)
Sequence of Hope	Hope Theory (Snyder: agency + pathways)	Strong	Snyder (2002); Colla (2022)
Developmental Phases	Transtheoretical Model (staged change)	Mixed; debated	Sutton (2005); Brug (2005)

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TLM Component	Closest Empirical / Theoretical Foundation	Level of Empirical Support	Key References
Personality Modulation	Neuroplasticity & structural adaptation through training	Strong (domain-specific)	Draganski et al. (2004, <i>Nature</i>)



Each component of TLM occupies its position between empirical grounding and conceptual innovation, forming a living framework that evolves with evidence.

Disclaimer:

This White Paper (Rev 01 | November 2025) presents the conceptual foundation of *The Locomotive Model™*.

The framework is established and internally validated through observation and application, while its theoretical articulation continues to be refined.

Future editions may expand the scope of research and include additional empirical references.

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