

BCI Failure Mode Monitoring Protocol



Protocol ID: BCI-MOD-2026-006

Core Purpose:

To establish a falsifiable, condition-based framework for detecting structural signals associated with systemic asset degradation, and to enable early-stage risk recognition prior to observable financial failure.

02 | Four BCI Equation–Driven Failure Modes

Based on

$$BCI = \frac{MT \times TS^n}{PL \times ES^{-1}}$$

we define four observable and falsifiable structural failure trajectories:

1. Meaning Evaporation

Trigger condition:

A continuous decline in MT across three consecutive audit cycles, without compensatory conversion improvement through increases in PL.

Monitoring indicators:

Divergence between premium pricing power and market share — volume increases while unit margin declines.

Structural interpretation:

The asset is transitioning from symbolic value to commodity competition.

Defensive reference actions (non-binding):

Temporary suspension of promotion-driven capital loading and selective channel contraction may be considered to restore symbolic tension.

2. Temporal Dissipation

Trigger condition:

Negative deviation in $TS^{\{n\}}$; compounding trajectory falls below inflation or sector baseline.

Monitoring indicators:

Brand mention volume exhibits dependency ratios above 0.8 on paid exposure.

Structural interpretation:

The asset lacks temporal resilience and is structurally dependent on rented attention.

Defensive reference actions (non-binding):

Reallocation from traffic acquisition toward structural capability formation may be considered.

3. Cognitive Friction Heat Death

Trigger condition:

Exponential increase in PL accompanied by rising internal system complexity.

Monitoring indicators:

Customer acquisition cost growth persistently exceeds lifetime value growth.

Structural interpretation:

Internal friction accumulation is dissipating system energy.

Defensive reference actions (non-binding):

Structural simplification, including reduction of non-core interfaces, may be considered.

4. Systemic Parasitism

Trigger condition:

Sustained elevation in ES^{-1} indicating net extractive system dynamics.

Monitoring indicators:

Negative correlation between core talent retention and community/user engagement.

Structural interpretation:

Short-term extraction is destabilizing long-term system foundations.

Defensive reference actions (non-binding):

Restorative reinvestment into system ecology may be considered prior to irreversible degradation.

03 | The Falsifiability Contract

Each report embeds a Verification Matrix:

Forecast statement (conditional):

If BCI readings remain within range X over the next observation window, structural depreciation signal Z is expected to emerge in asset Y under stable external conditions.

Falsification boundary:

If asset Y exhibits structural recovery under unchanged conditions, this constitutes evidence of sampling or mapping bias, triggering methodological review.

This mechanism is designed for methodological validation, not for outcome guarantees or forward-looking commitments.

04 | Defensive Execution References

Failure mode monitoring is not predictive authority, but a conditional signal framework intended to inform optional defensive consideration.

Defensive references are illustrative, not prescriptive.

All capital, operational, and governance decisions remain under the sole authority and responsibility of the relevant asset owner or decision body.