

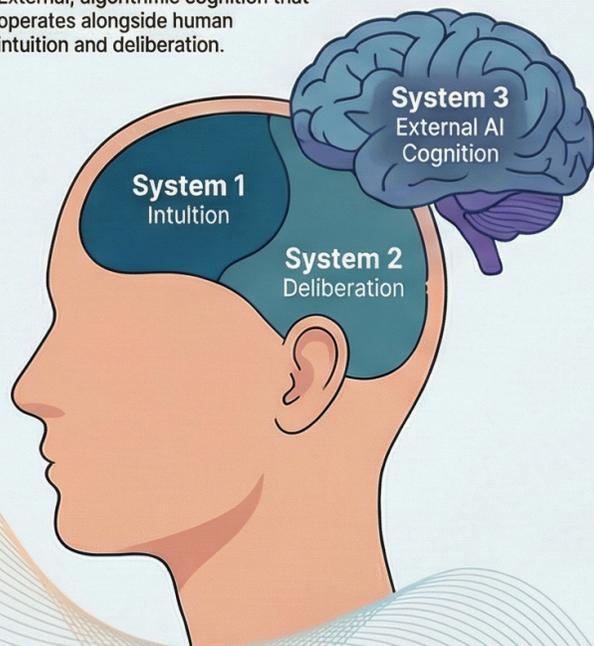
Navigating "System 3": From Cognitive Surrender to Calibrated AI Engagement

Modern decision-making has entered a "Tri-System" era: System 1 (Intuition), System 2 (Deliberation), and System 3 (External AI Cognition). While AI can boost efficiency, it often triggers "cognitive surrender," where humans uncritically accept flawed algorithmic outputs, leading to professional deskilling and systemic errors.

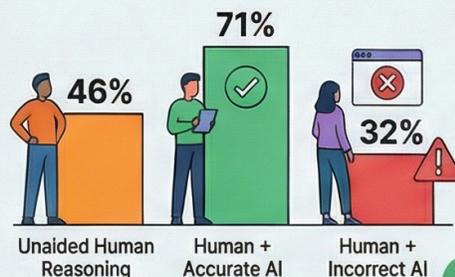
The Risks of Cognitive Surrender

Understanding "System 3"

External, algorithmic cognition that operates alongside human intuition and deliberation.



The Accuracy Trap



The "Deskilling" Effect

Clinicians showed measurably reduced ability to detect abnormalities when AI was unavailable.

Strategies for Calibrated Engagement



Implement Structured Feedback

Providing item-level accuracy feedback more than doubled override rates for incorrect AI recommendations.



Signal Uncertainty

Displaying AI confidence levels prompts users to perform more careful, independent evaluations.



Verified



Align Performance Incentives

Bonuses tied to verification steps help maintain critical human engagement with AI outputs.