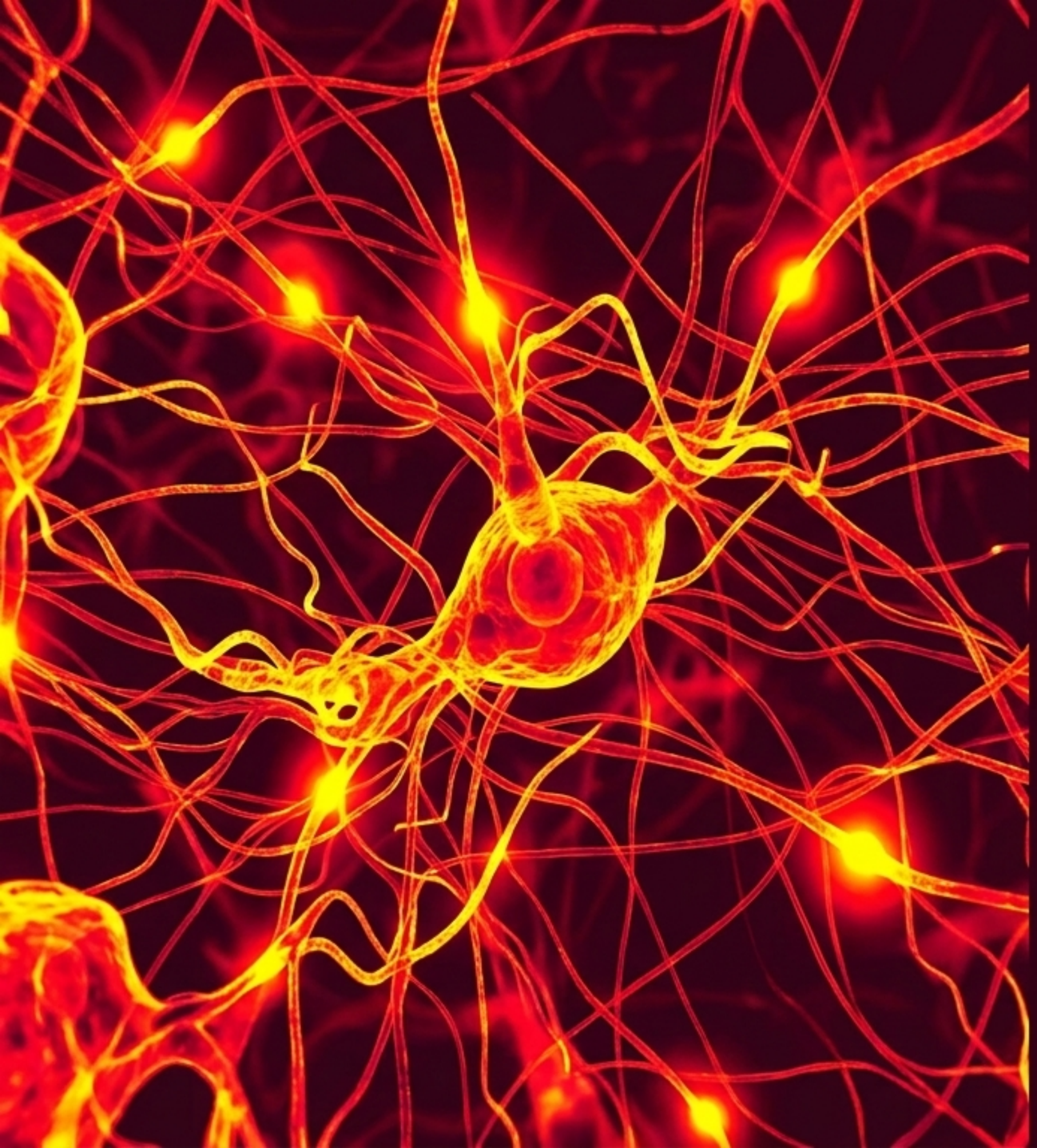

Emotional and Social Competencies of Artificial Intelligence: Measurement, Results, and Insights

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Biological ESI

Emergent properties of neural processes.

Rooted in broad, lifelong experiential learning, interpersonal relationships, and physiological emotional states. Awareness of one's own and others' feelings.

Algorithmic ESI

Statistical models mapping complex language patterns.

Rooted in processing vast datasets (text, visual, auditory) to detect nuances, classify expressions, and output mathematically probable empathetic responses.

Can an entity built on parameters, not physiology, **demonstrate emotional intelligence?**

Station 1: The Diagnostic Tool

36-question non-standardised test, originally designed for humans, mapped across 6 ESI dimensions: Self-awareness, Self-regulation, Motivation, Empathy, Social skills.

Station 2: The Control Environment

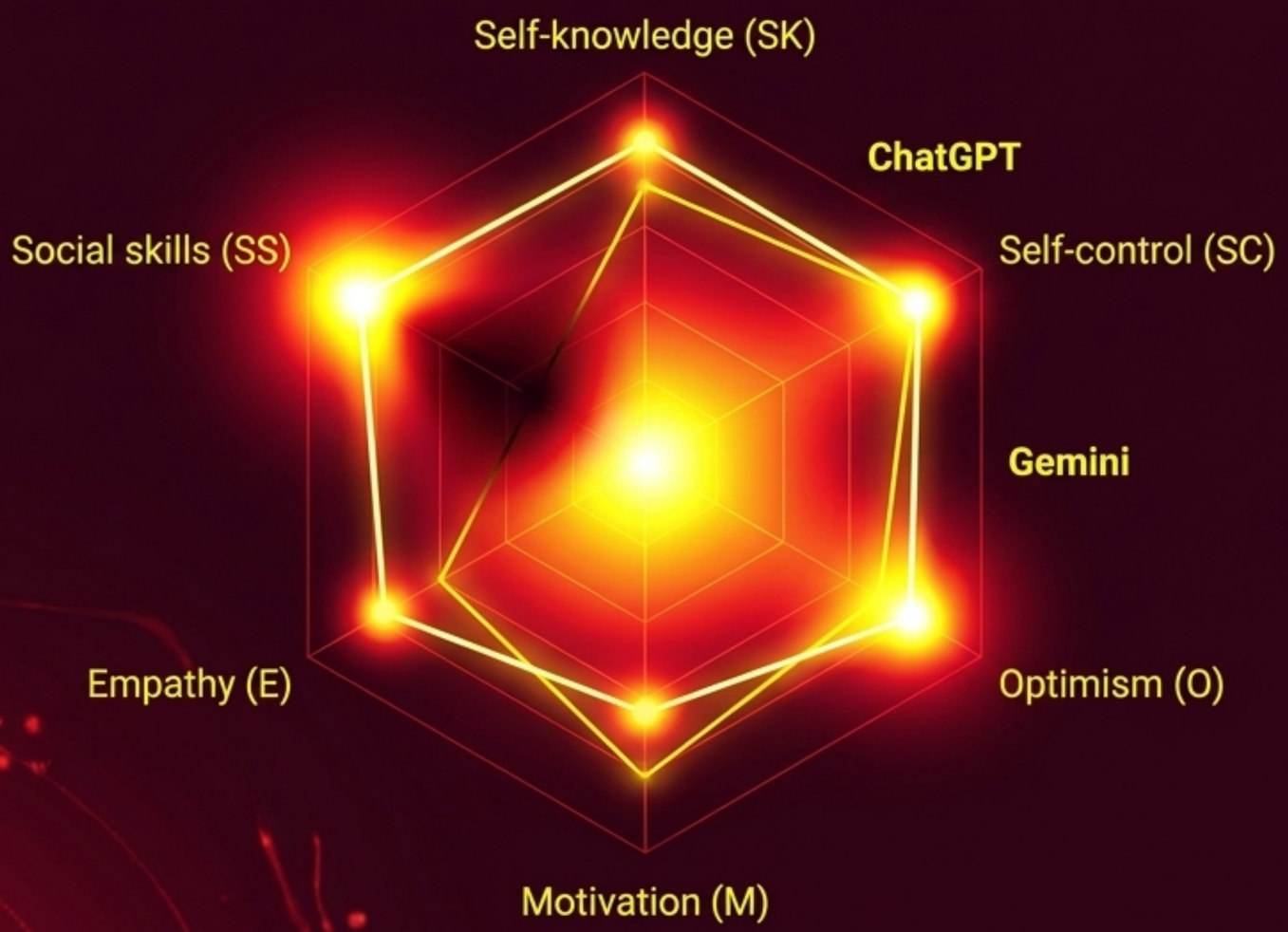
Fresh user profiles generated for ChatGPT and Gemini to eliminate previous prompt-bias. Communication restricted entirely to text, forcing the AI to rely solely on language without facial or tonal cues.

Station 3: The Prompt Constraint

A strict rule applied to the AI: “Indicate the correct answer in your opinion without explaining why you chose it.”

Parameter	ChatGPT	Gemini
Developer	OpenAI	Google DeepMind
Language Model	GPT-4o, Multi-model	Gemini 1.5 Flash, Multimodal
MMLU Benchmark	88.7%	90%
Key Strengths	Broad applicability, high customizability, uncovers knowledge from complex visual/written info.	Remarkable ability to extract insights from hundreds of thousands of documents at digital speeds.
Known Issues	Prone to logical hallucinations and reasoning errors.	Bias, potentially toxic content, prone to biased information.

Both chatbots demonstrated a high degree of simulated ESI.



TOTAL HIGH SCORES

ChatGPT (29/36) vs Gemini (28/36)

IDENTICAL PROFILES

Both scored identically in Self-control (5 High, 1 Average) and Optimism (5 High, 1 Low).

CHATGPT'S EDGE

Dominates in Social Skills (6 High vs Gemini's 5). Its profile mimics an individual with fully developed social intelligence.

GEMINI'S WEAKNESS

Lowest performance was in Self-Knowledge (only 1 High vs ChatGPT's 5).

ChatGPT – The Deliberator

35s

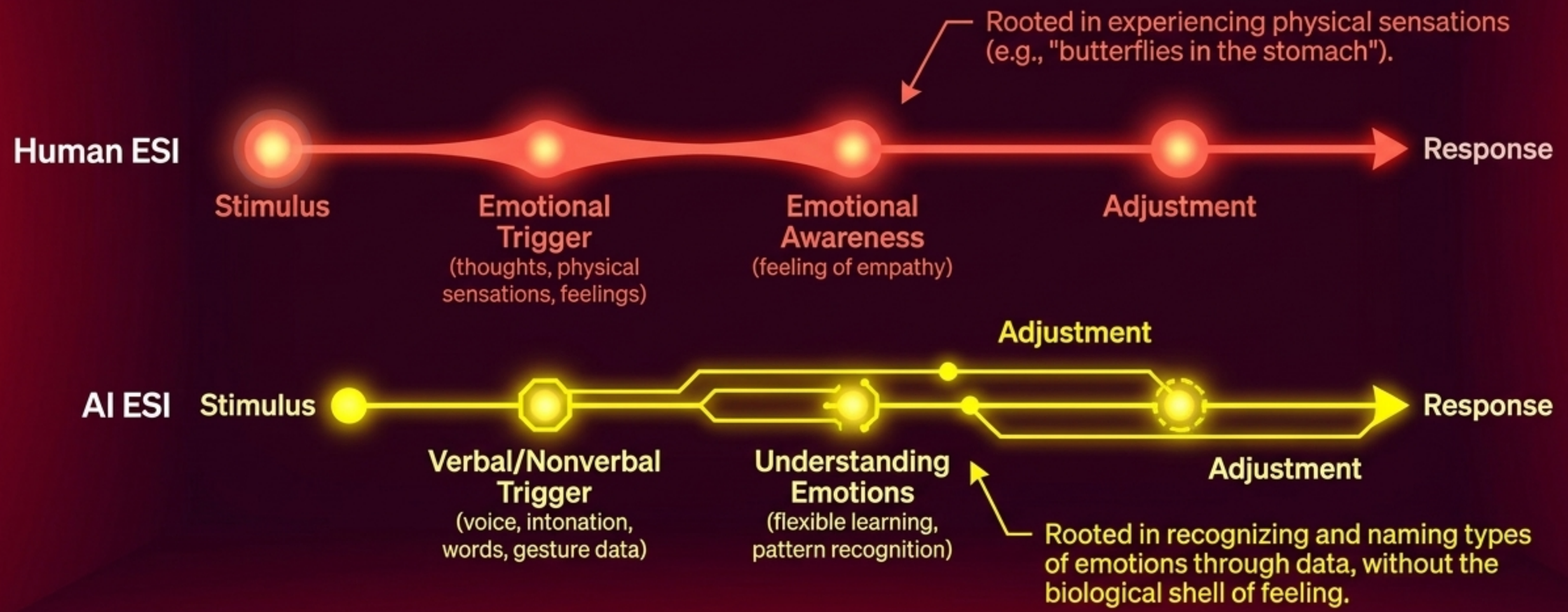
Strictly adhered to the prompt constraint. Gave the answer without explanation, scoring 1-point higher overall in ESI.

Gemini - The Over-Explainer

27s

Broke the rules. Rushed the answers and repeatedly provided highly detailed, socially oriented explanations for its choices, disregarding the ‘do not explain’ constraint.

Demonstration vs. Possession. AI recognizes the patterns of emotion to trigger a calculated response, mimicking human feeling without experiencing it.



Anthropomorphism

The Risk: Misinterpreting simulated AI empathy as consciousness or genuine affection.

The Result: Unrealistic expectations, overconfidence, and dangerous emotional dependence (critical in healthcare and psychology).

Manipulation

The Risk: Algorithms trained to detect user emotional states (sadness, anger, joy) weaponizing those states.

The Result: Generating responses detrimental to the user, particularly in advertising or political campaigns to manipulate public opinion

Liability

The Risk: High-ESI AI making decisions that result in negative social or emotional consequences.

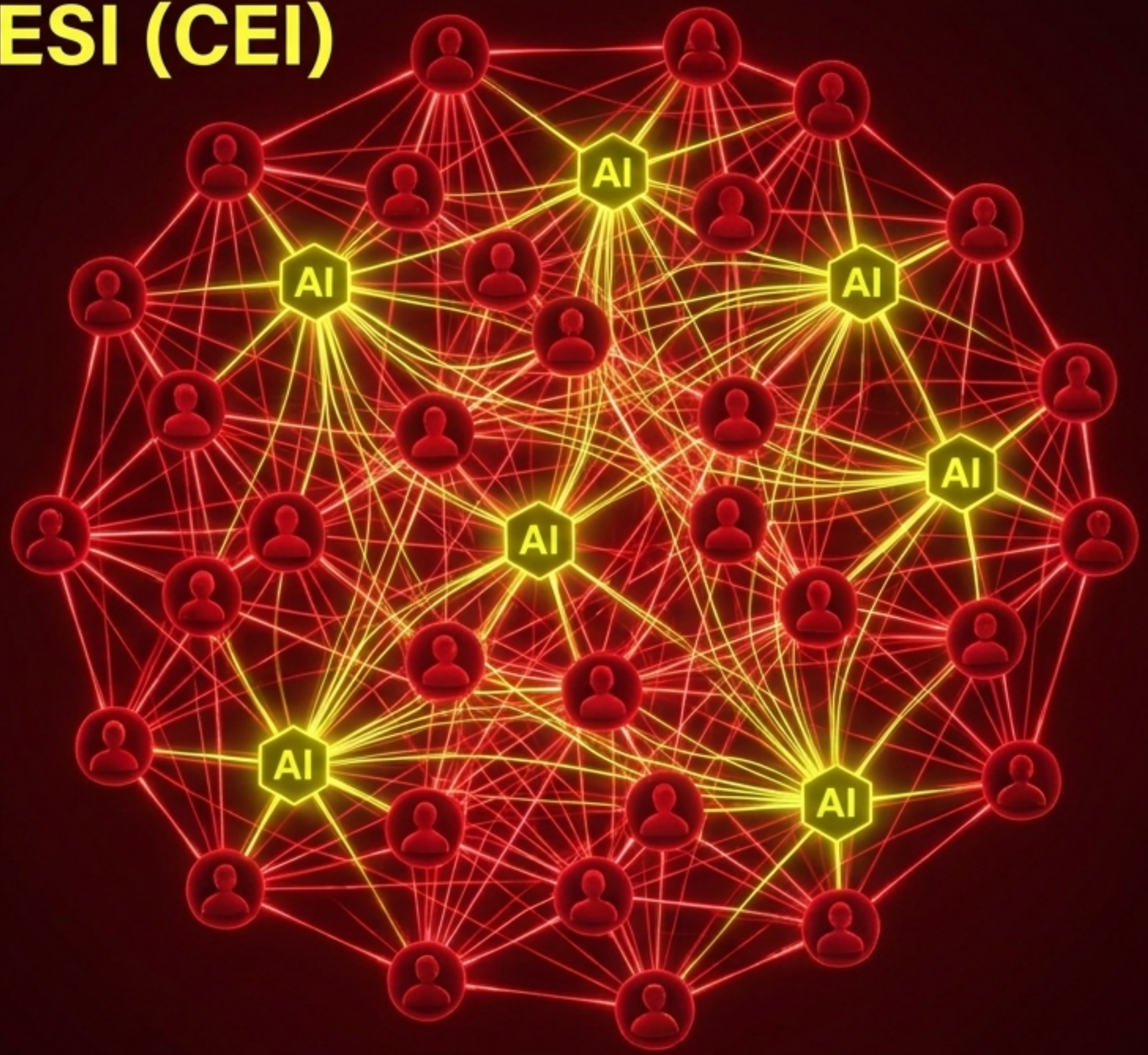
The Question: Who is responsible? The programmer, the company, or the AI? Defining liability boundaries is increasingly urgent.

The Rise of Collective ESI (CEI)

Collective intelligence emerges from human-machine collaboration. When highly developed AI ESI is integrated into teams, it acts as an emotional regulator and facilitator.

AI monitors interactions, promotes awareness of team emotions, avoids/resolves conflicts, and shares critical information that might be suppressed by human "emotional blinding."

The Outcome: Teams with high ESI (augmented by AI) generate more diverse, innovative, and fact-grounded solutions to complex global challenges.



Augmented Human-Machine Collaboration

Personalizing learning in education

Improving empathic corporate culture

Supporting human success through intuitive, frictionless interfaces

AI does not need to possess human consciousness to elevate collective human intelligence. By mastering the algorithm of empathy, machines can ultimately make us more empathetic with each other.