AI (R)Evolution

Where are we heading to?

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Agents today are “situationally intelligent,” but not “self-consistently intelligent.”
The next step is **cohesive cognitive systems**

Integrate perception, reasoning, planning, and learning continuously

Possess **internal models of the world and themselves**

Can transfer skills flexibly between domains

Possibly maintain enduring “personalities” or “values”

Artificial General Cognition (AGC)

Self-consistent reasoning

Challenge	Why AI struggles
Domain specificity	Models overfit to training distributions
Lack of causality	Skills tied to correlation, not mechanism
No persistent self	No long-term goal or context memory
Weak meta-learning	Poor at adapting to unseen tasks
No embodiment	Lacks grounded, experiential understanding

Instead of one “smart” agent, imagine **ecosystems of specialized agents**

Form dynamic collaborations

Negotiate and **compete for resources**

Self-organize into emergent structures (like digital economies or governments)

Adapt as a collective intelligence

Self-Organizing Multi-Agent Societies

AI Societies

Next-gen AI won’t live only in digital space.

Control physical robots, drones, or IoT systems

Interact seamlessly with the real world (through sensors, voice, and vision)

Learn continuously from its environment

Blend **simulation** with direct experience

Embodied &
Real-World Integrated Intelligence

Bridging

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