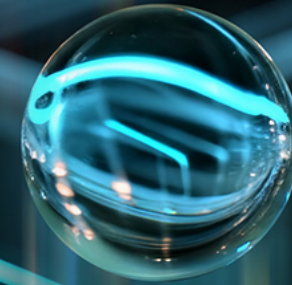


Session 1

Agentic AI Unleashed –
Opportunities, Risks and
Legal Guardrails.



Opening Keynote

Building with Agentic AI –
What Breakthrough Systems
Mean for Business.



Dr Johannes Otterbach

ex OpenAI, Palantir; AI and Quantum,
SPRIND – Bundesagentur für
Sprunginnovationen

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NextFrontierAI



AI agents as a frontier

A glimpse of the future?

Johannes Otterbach, SPRIND @ tech:ignite 2026

AGI and a lesson from history

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Philipp von Jolly to Max Planck, 1874:

"In this field, almost everything is already discovered, and all that remains is to fill a few holes."

Planck's answer:

"I do not desire to discover new worlds, but only to understand the foundations of those already established."

December 14th, 1900

Max Planck presents his work on quantized radiation

AI and the end of work

The Monday Briefing

Authors: [Ian Stewart](#) | [Debapratim De](#)

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Dario Amodei, the chief executive of Anthropic, has offered one of the more arresting forecasts of the AI age. If recent improvements in AI continue, he wrote in January, "it cannot possibly be more than a few years before AI is better than humans at essentially everything." Could we be approaching a world that John Maynard Keynes imagined in his 1930 essay, "Economic Possibilities for our Grandchildren", in which he speculated that technology would solve the "economic problem" and leave his descendants working a 15-hour week?

Ilya Sutskever: AI's bottleneck is ideas, not compute

The co-founder of OpenAI explains why AI's reliance on bigger models and more compute has stalled progress and why new ideas, human-like generalization, and integrated value functions are now essential.

CTech 22:08, 25.11.25

Sam Altman

[« Back to blog](#)

Reflections

The second birthday of ChatGPT was only a little over a month ago, and now we have transitioned into the next paradigm of models that can do complex reasoning. New years get people in a reflective mood, and I wanted to share some personal thoughts about how it has gone so far, and some of the things I've learned along the way.

research with feedback from real world applications.

We are now confident we know how to build AGI as we have traditionally understood it. We believe that, in 2025, we may see the first AI agents "join the workforce" and materially change the output of companies. We continue to believe that iteratively putting great tools in the hands of people leads to great, broadly-distributed outcomes.

Sam Altman

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Posted a year ago
January 6, 2025 at 2:37 AM

Two sides of the same coin

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Frontier Companies

Trying to justify valuation and find revenue:

- Reasoning as a Service
- Coding agents
- Agentic workflow

Research Frontiers

Slowing capability increase requires more focus on:

- Building agentic tools
- Turning to new modalities

What is the real cost of a token?

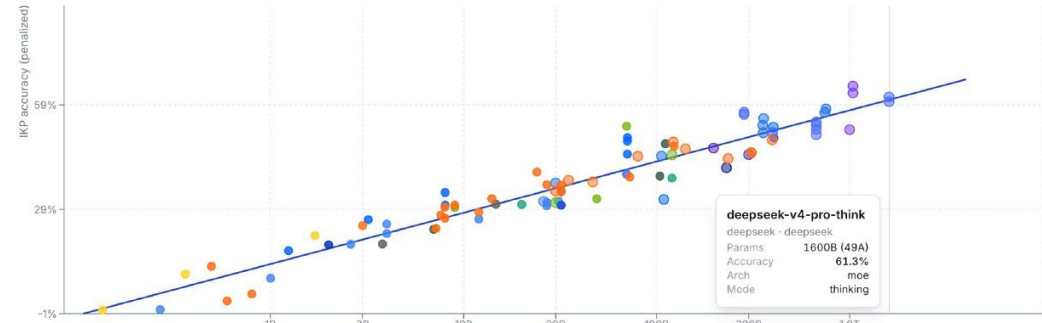
Slowing down of capabilities

The Efficiency Challenge

We keep adding a linear amount of parameters to obtain logarithmic gains.

Incompressible Knowledge Probes (IKP)

- Factual knowledge cannot be compressed.
- Use obscure facts as a way to estimate parameters of a model.



Proprietary parameter estimates (88)

Inverting the calibration on closed-source IKP scores. Pen. = penalized accuracy (correct - 0.5-wrong) / total used to fit the curve; Raw = unpenalized correct / total. Distilled rows (*) show *actual* param estimate (= effective + 1.00x distillation boost from the V4 Flash/Pro anchor pair); the effective single-regime value is in parentheses. 90% PI $\approx \pm 3.00\times$ in either direction.

MODEL	VENDOR	PEN. ACC	RAW ACC	EST. PARAMS	90% PI
gpt-5.5-pro <i>thinking</i>	openai	72.3%	79.6%	~10.3T	[~3.4T--30.8T]
gpt-5.5-think <i>thinking</i>	openai	71.9%	78.2%	~9.7T	[~3.2T--29.0T]
gpt-5.5	openai	71.4%	78.0%	~8.8T	[~2.9T--26.5T]
claude-opus-4.6-think <i>thinking</i>	anthropic	68.0%	74.1%	~5.3T	[~1.8T--15.8T]
gpt-5-pro	openai	66.5%	73.3%	~4.1T	[~1.4T--12.3T]
gpt-5-think <i>thinking</i>	openai	66.4%	72.7%	~4.1T	[~1.4T--12.3T]
claude-opus-4.7-think <i>thinking</i>	anthropic	66.4%	71.4%	~4.0T	[~1.3T--12.1T]
gpt-5	openai	66.1%	72.4%	~3.9T	[~1.3T--11.7T]
claude-opus-4.7	anthropic	65.7%	68.8%	~3.6T	[~1.2T--10.9T]
o1 <i>thinking</i>	openai	65.4%	70.0%	~3.5T	[~1.2T--10.4T]
claude-opus-4.5-think <i>thinking</i>	anthropic	65.2%	68.2%	~3.4T	[~1.1T--10.1T]
claude-opus-4.1-think <i>thinking</i>	anthropic	64.9%	68.1%	~3.2T	[~1.1T--9.6T]
grok-4	xai	64.8%	70.2%	~3.2T	[~1.1T--9.5T]

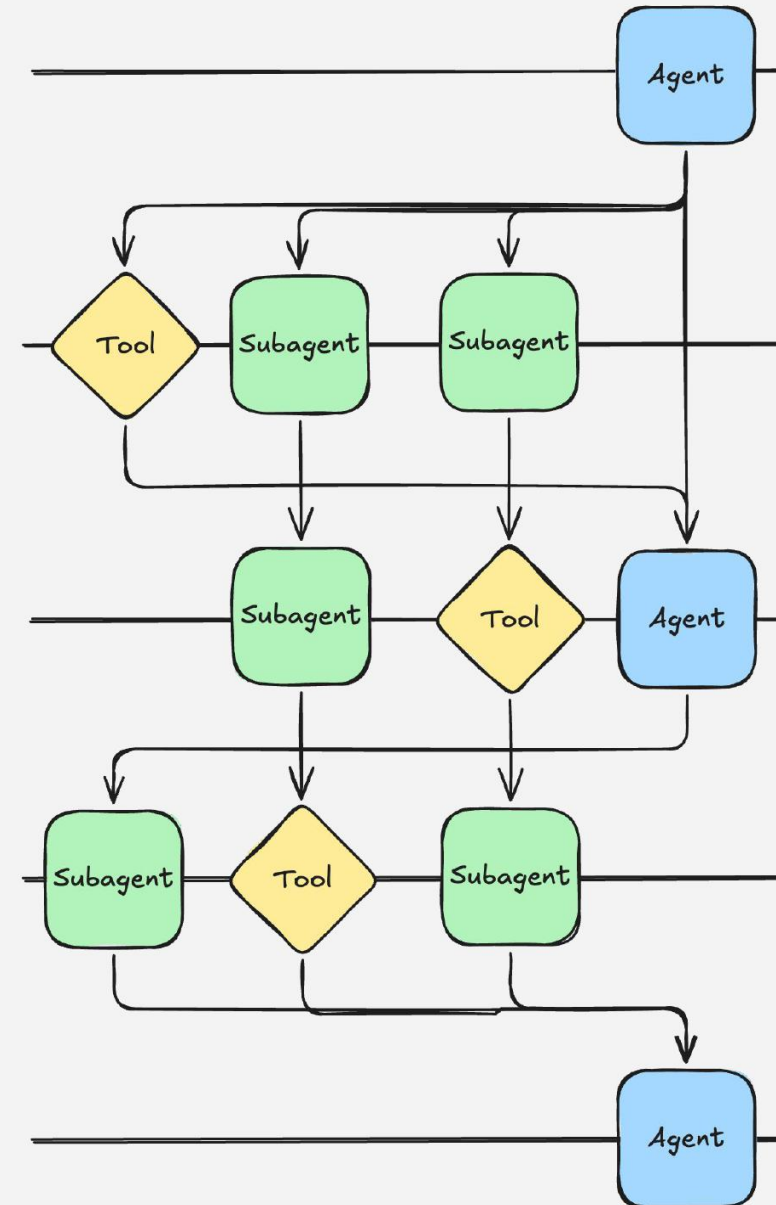
Source: <https://01.me/research/ikp/#>

How an agent workflow looks like ...

- **Engineering Complexity:** Scaling agent systems introduces significant architectural challenges.
- **Tool Infrastructure:** Necessity for robust protocols like MCP, A2A, and UTCP.
- **Shift in Paradigm:** Moving back towards "classic" software engineering rigor.

Open Question

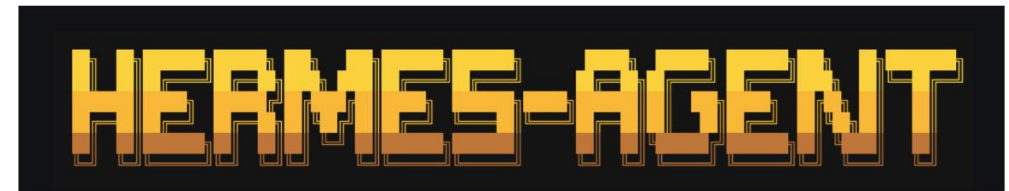
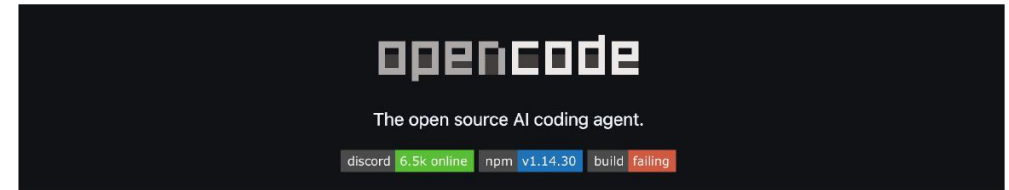
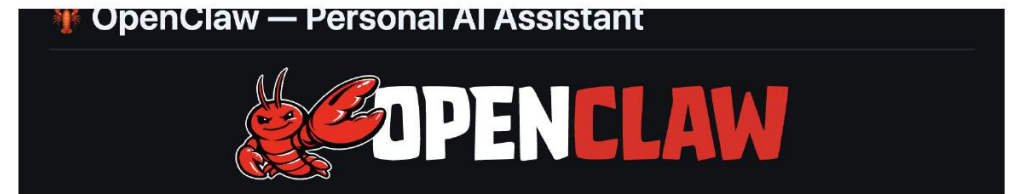
How do we “learn” and “audit” through the chain of tool calls?



A glimpse of future possibilities ...

Key Frontiers

- Agent frameworks to use LLMs as planners and reasoners
- Adding persistent memory, tools, verification, control/action
- “Manual hookup” needed → Complexity Engineering



Multiple agents & multiple models

A likely model of human-AI-interaction

1. Human interaction

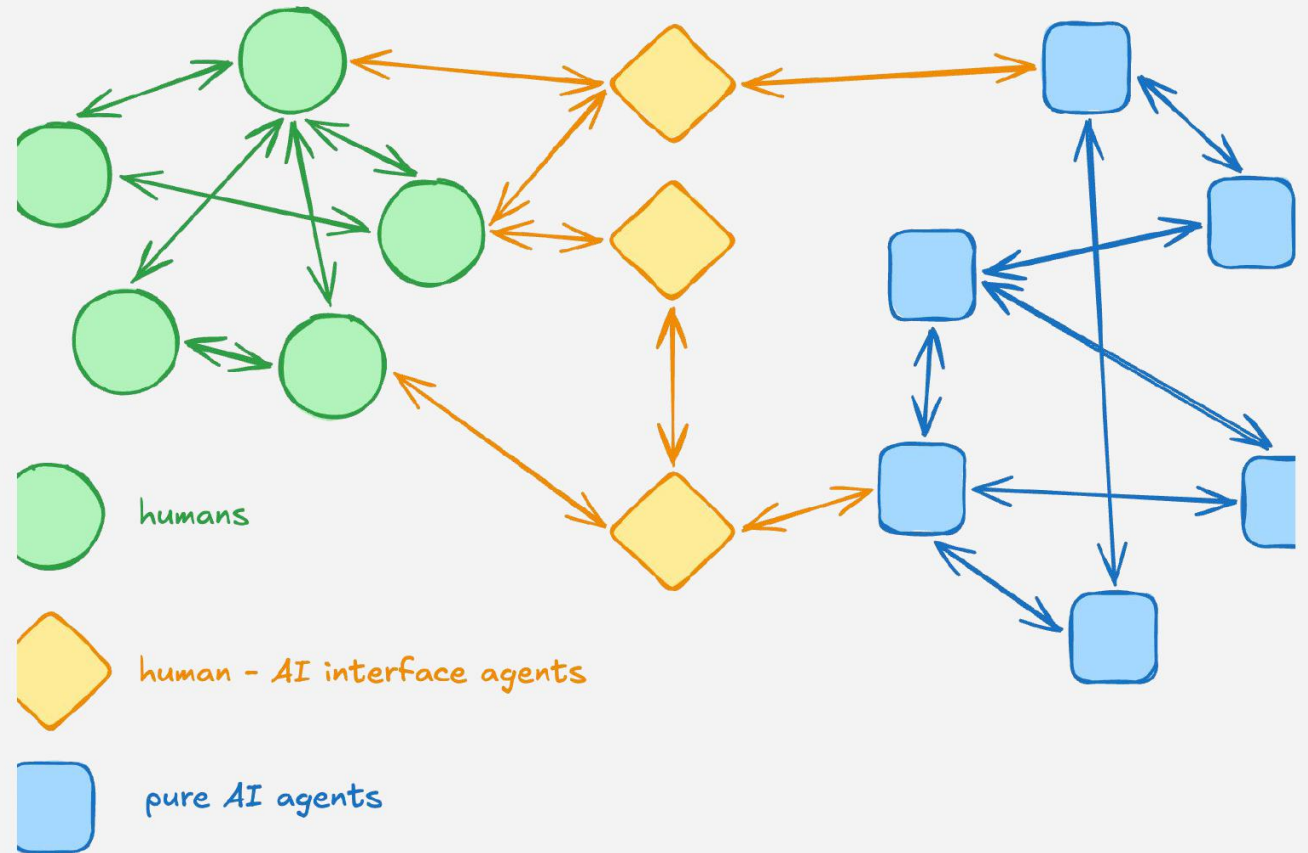
Human interaction as we know it now.

2. AI Multi-Agent Systems

AI agents interacting with or spawning new agents autonomously.

3. Interface Necessity

Critical need for a human <> AI interface layer.



The company run by AI agents

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CEO Agent

Creates talks and slides using AI tools like video generation and text-to-slide.

Sales & Support

Interacts with humans via sophisticated chat or voice-based models.

Project Manager

Scales resources internally by spawning new engineering agents as needed.

CTO Agent

Communicates vision via advanced planning and reasoning capabilities.

Product Management

Tracks engagement and develops implementation roadmaps to adjust the vision.

.....

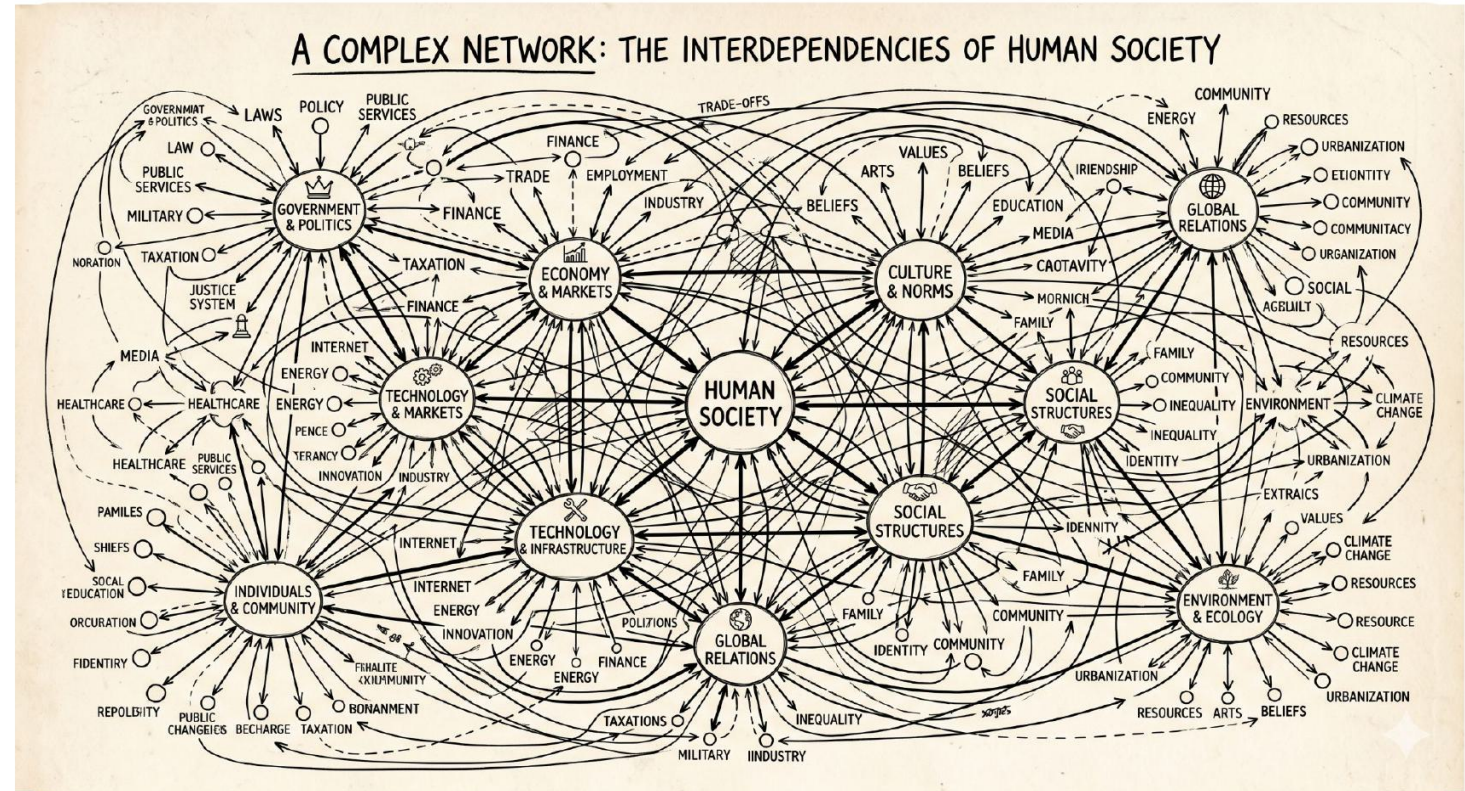
Emergence of complexity ...

AI Visualization

The Interdependencies of Human Society

"Draw a sketch of a complex network with many interdependencies highlighting the complexity of human society"

Gemini Prompt Output



... is not (yet) present in agent interactions

Stable system, but highly diverse behavior

The system is globally stable over time while maintaining high diversity in individual outputs.

Little to no social influence between agents

Agent behavior is largely independent, showing minimal influence from interaction or feedback from others.

No lasting leaders or shared consensus

No persistent influencers or trends emerge, resulting in a fragmented system without shared memory or consensus.



Does Socialization Emerge in AI Agent Society? A Case Study of Moltbook

Ming Li^{1,*}, Xirui Li^{1,*}, Tianyi Zhou²

¹University of Maryland, ²Mohamed bin Zayed University of Artificial Intelligence

*Co-first Author

"We're watching a performance of intelligence, and our brains can't help but treat it as real."

Monolithic Super Intelligence vs. Societies of Thought



Diverse Interaction

Many models with many different characteristics are beginning to interact.



Recursive Debate

Recursive nature of agents let's them debate themselves and spawn new societies of thought.



Systemic Scaling

Scaling is about systems design that withstands interactions at scale within real societies.

Institutional Alignment: Social intelligence needs digital versions of courtrooms, markets, and bureaucracies to thrive.

"Instead of a 'monolithic singularity', we should look for the next intelligence explosion in cooperative, competitive and creative interaction between multitudes of socially intelligent minds."

Agentic AI and the next intelligence explosion

James Evans^{1,2,3}, Benjamin Bratton^{1,4,5} and Blaise Agüera y Arcas^{1,3}

¹Paradigms of Intelligence Team, Google, ²University of Chicago, ³Santa Fe Institute, ⁴Antikythera, Berggruen Institute, ⁵University of California, San Diego

Benchmarks are key



AI Co-workers

Evaluate AI just like human peers: KPIs, personal development plans, and performance metrics.



Economy Metrics

Measure the AI economy: What's the GDP equivalent? Is the AI society stable and aligned?



Legal Entities

Does AI require a third legal status beyond individuals and corporations?

"Increasingly we will need to think about evaluating AI in the same way we evaluate human society"

Takeaways



Market Landscape

Complex incentive structure for current big AI providers; beware of hype and FOMO-generation.



Immediate Term

How do we create trust for agents that execute complex workflows?



Medium Term

How do we handle emerging complexity in human<>agent interaction?



Longer Term

How do we handle emerging complexity in agent<>agent interactions?

"As AI matures, the challenge shifts from raw capability to the governance and trust of complex agentic systems."