

Me, Myself & AI

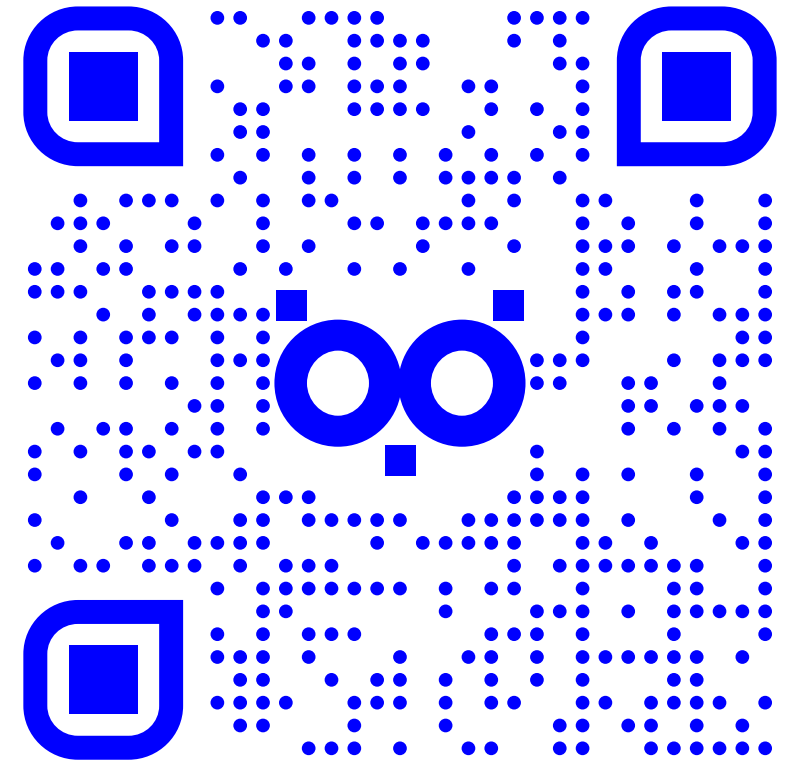
Marian Lambert

e-fellows.net Karriereabend • 17.10.2024

1. Status Quo
2. Short-term Outlook
3. Success Factors



Marian Lambert
Managing Consultant AI & Software
XPACE GmbH

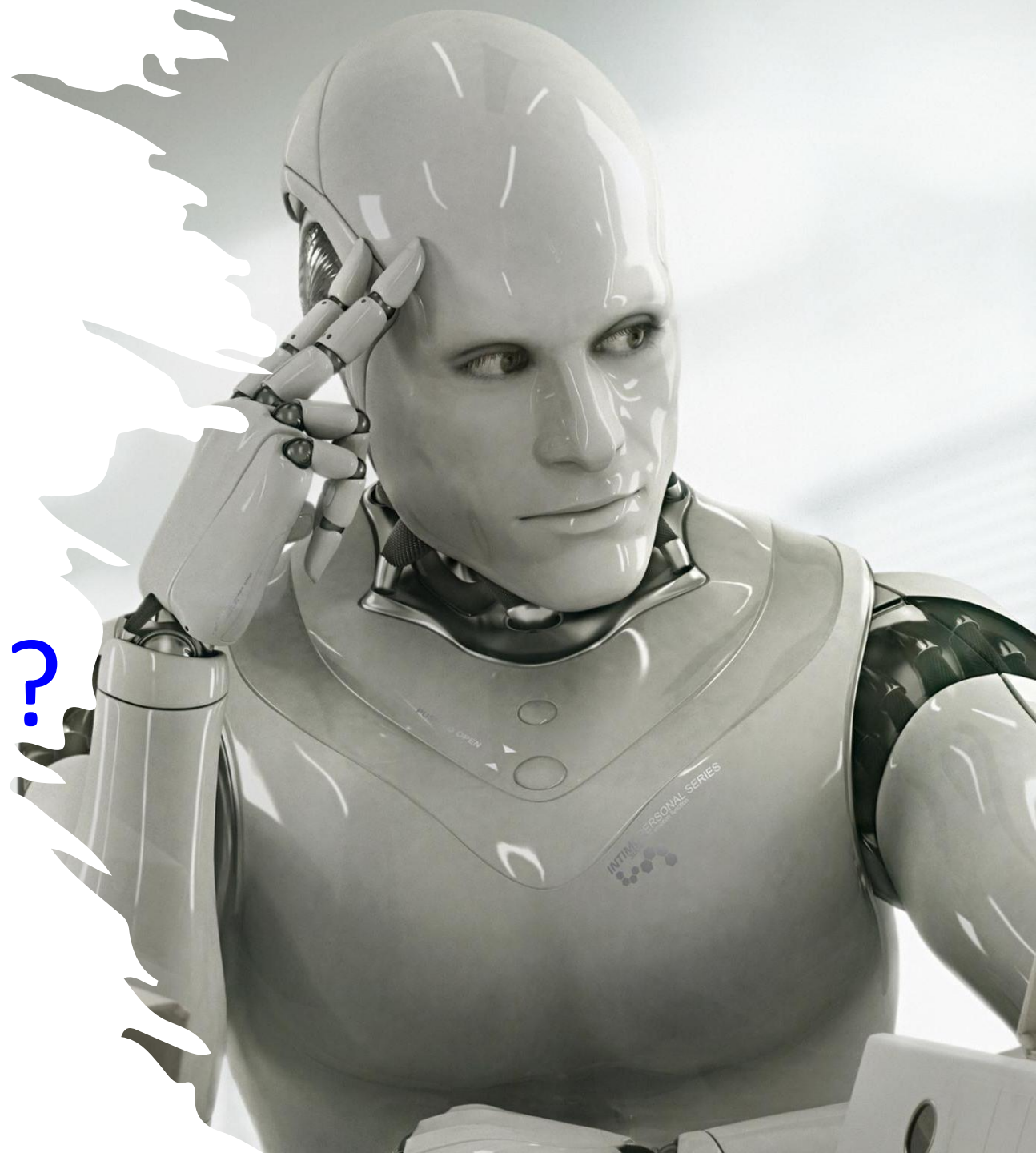


Status Quo



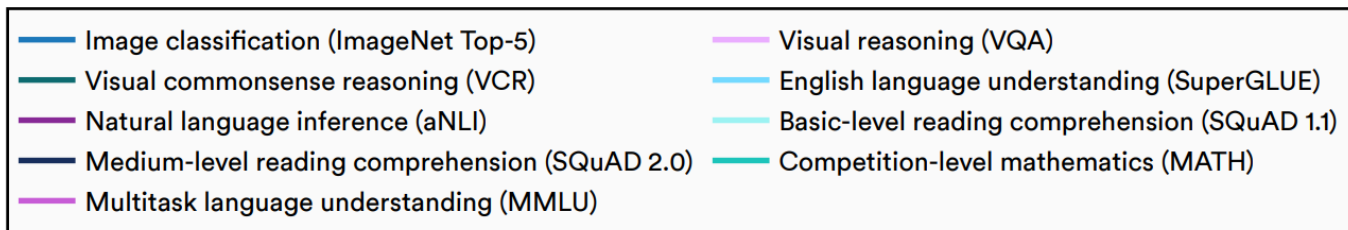
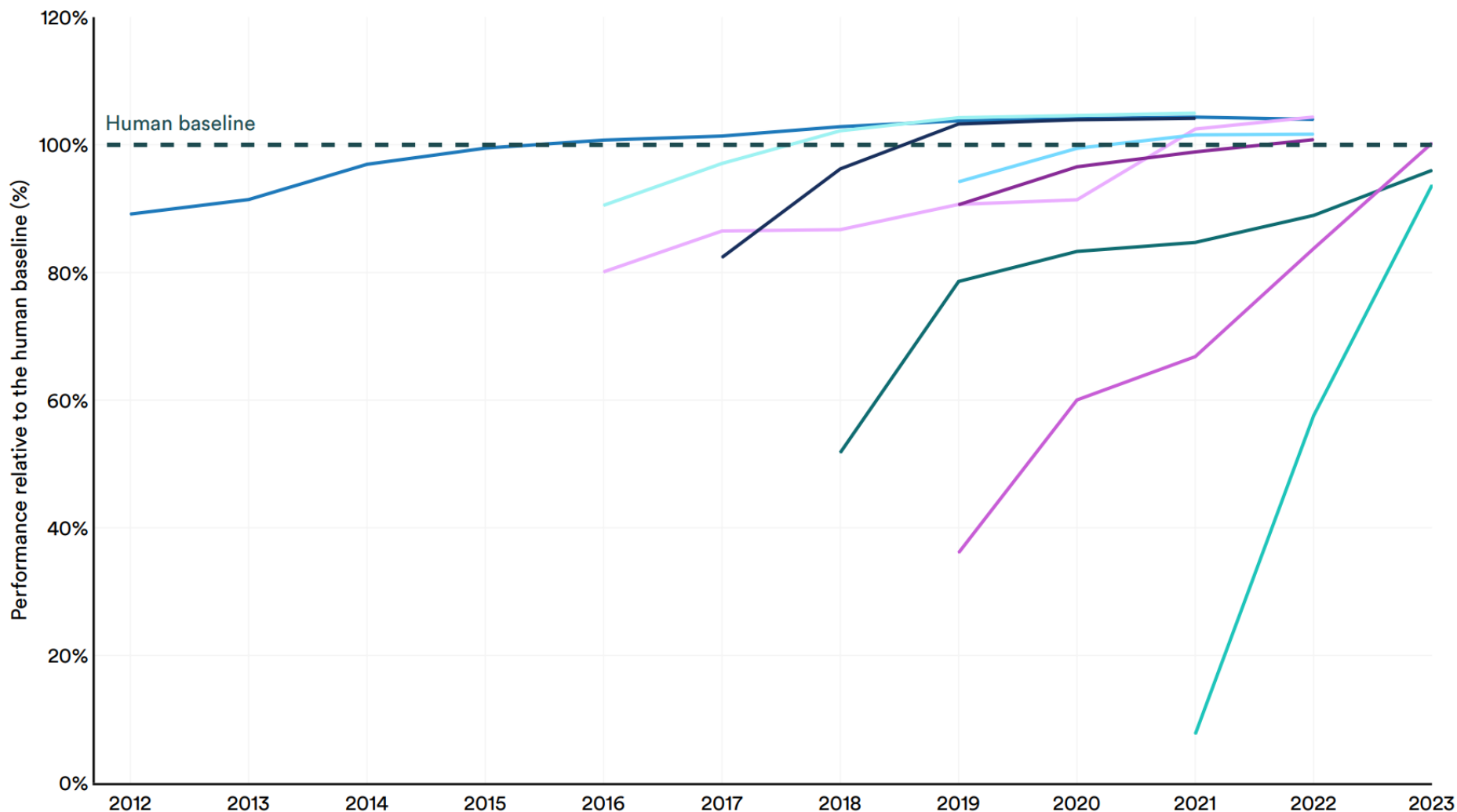
Solved Problems?

Status Quo



Select AI Index technical performance benchmarks vs. human performance

Source: AI Index, 2024 | Chart: 2024 AI Index report



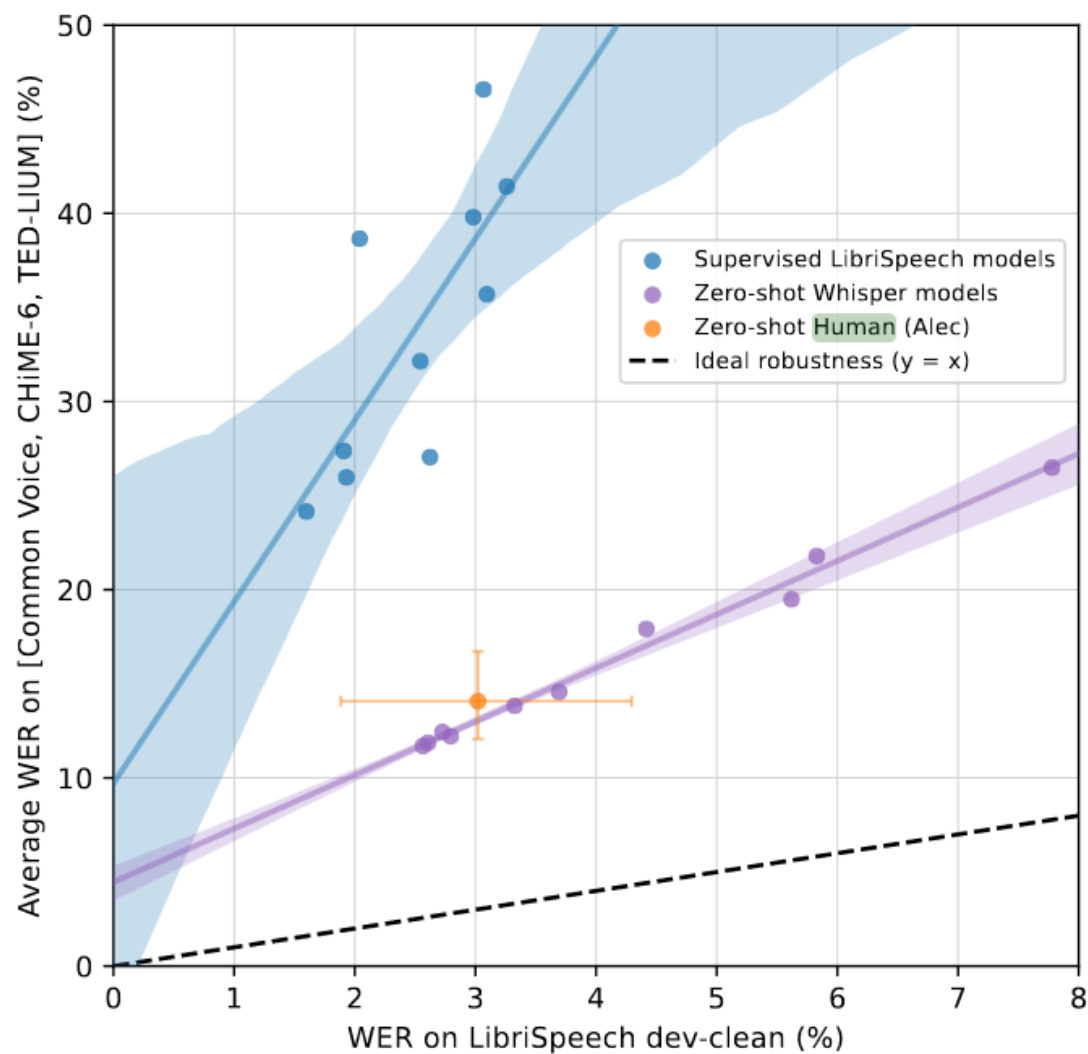
A Peek into 2024

OpenAI o1 ranks in the 89th percentile on competitive programming questions (Codeforces), places among the top 500 students in the US in a qualifier for the USA Math Olympiad (AIME), and exceeds human PhD-level accuracy on a benchmark of physics, biology, and chemistry problems (GPQA).

A Peek into 2024

On MMLU ([Hendrycks et al., 2021a](#)), Gemini Ultra can outperform all existing models, achieving an accuracy of 90.04%. MMLU is a holistic exam benchmark, which measures knowledge across a set of 57 subjects. Human expert performance is gauged at 89.8% by the benchmark authors, and Gemini Ultra is the first model to exceed this threshold, with the prior state-of-the-art result at 86.4%.

A Peek into 2024

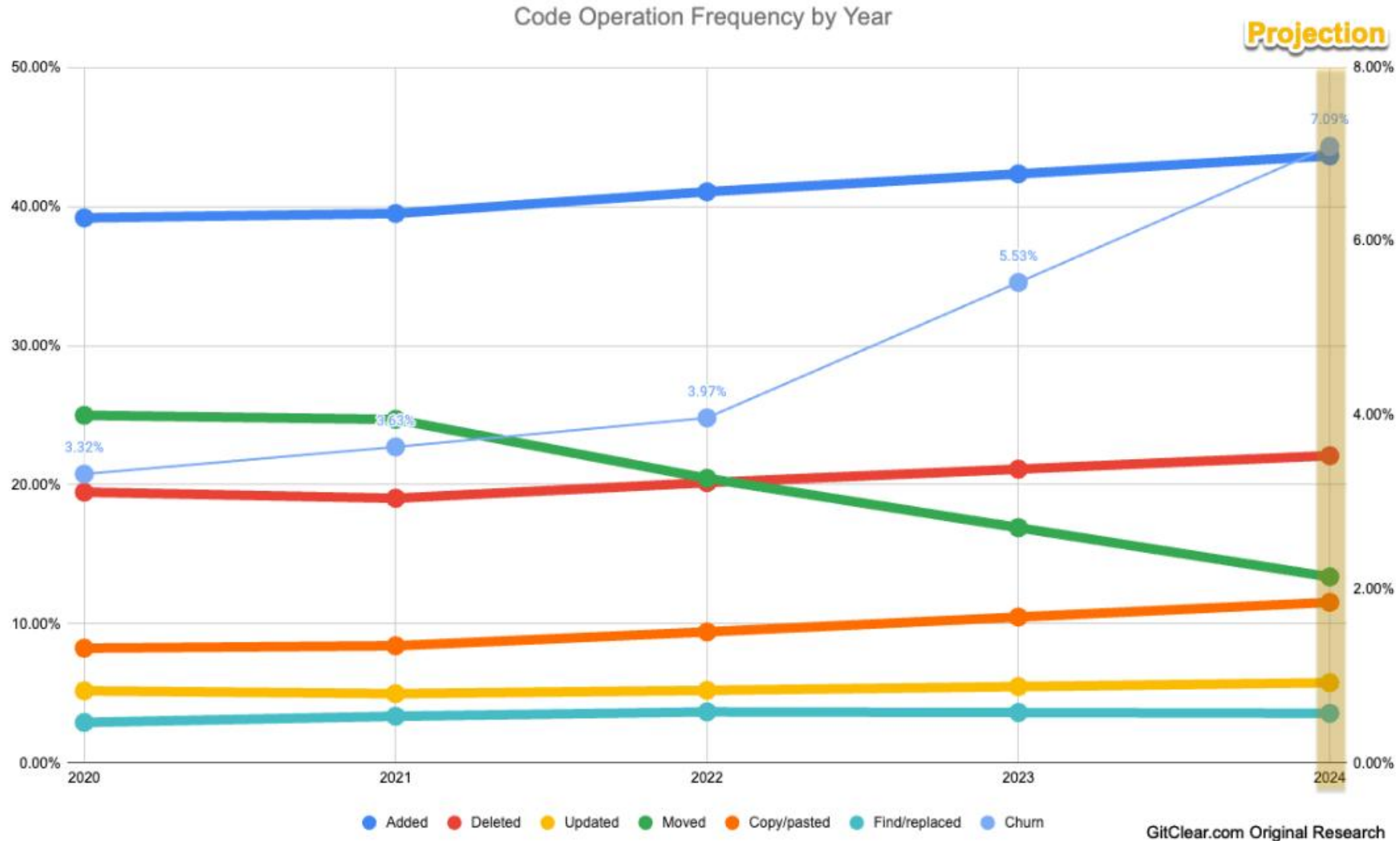


Work in Progress

Status Quo



2023 Data Shows Downward Pressure on Code Quality





Everyone: AI art will make designers obsolete

AI accepting the job:



Midjourney generations over time: “a hyper-realistic image of Harry Potter”

Source: [Midjourney, 2023](#)



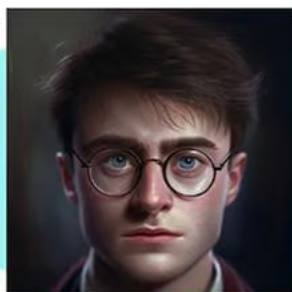
V1, February 2022



V2, April 2022



V3, July 2022



V4, November 2022



V5, March 2023



V5.1, March 2023



V5.2, June 2023



V6, December 2023

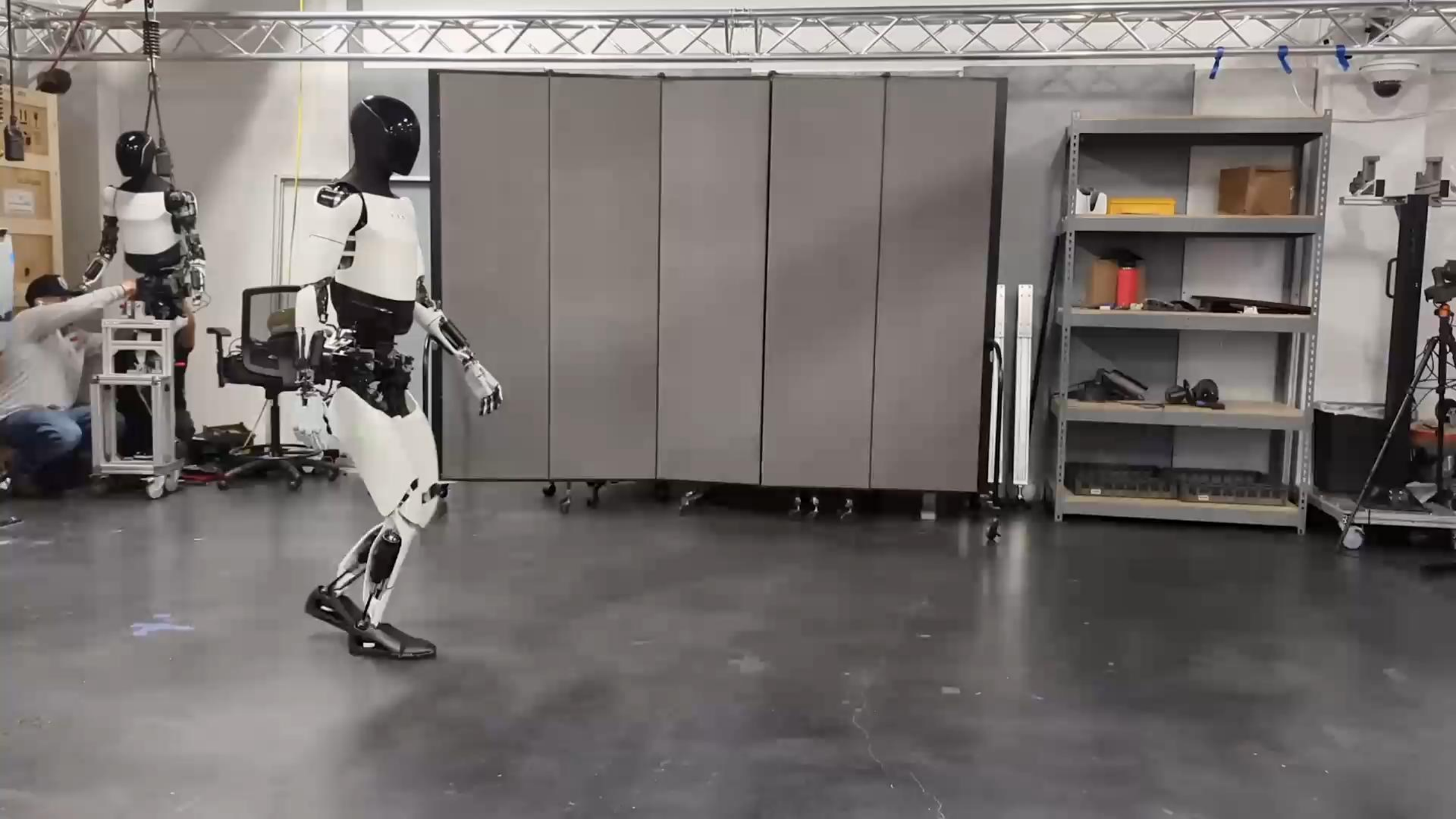
Frontiers of AI

Status Quo



Waymo cars cause chaos at dawn

 USA TODAY



The Optimus robots at Tesla's Cybercab event were humans in disguise



An Optimus robot at the We, Robot event. Screenshot: Tesla We, Robot livestream

/ Behind-the-scenes human ‘assisting’ Optimus meant the We, Robot event said little about how far its humanoid robots have come.

By [Wes Davis](#), a weekend editor who covers the latest in tech and entertainment. He has written news, reviews, and more as a tech journalist since 2020.

Oct 13, 2024, 7:55 PM GMT+2



153 Comments (153 New)

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Joanna Maciejewska—Snakebitten is here. Get it!

@AuthorJMac



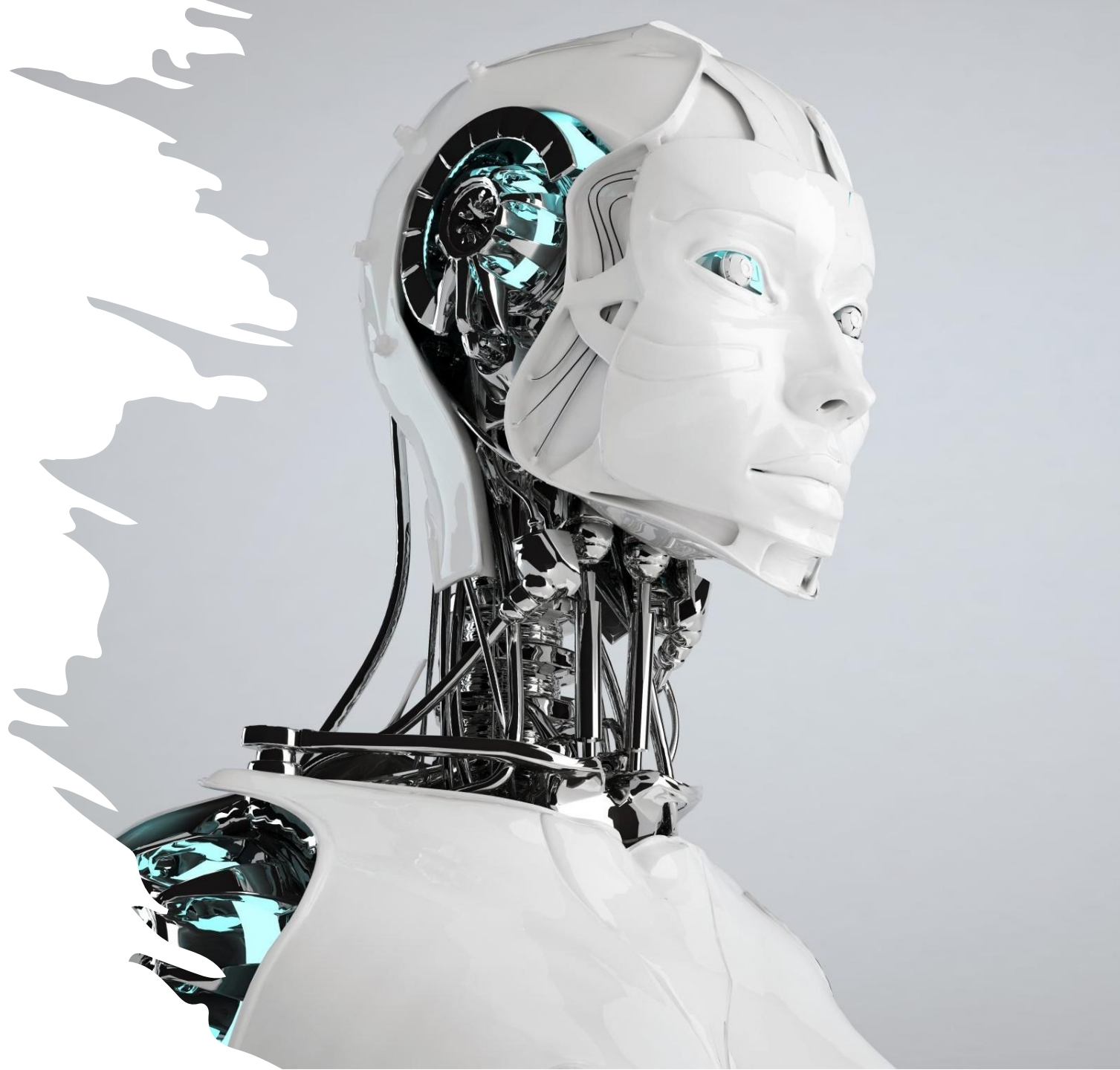
You know what the biggest problem with pushing all-things-AI is? Wrong direction.

I want AI to do my laundry and dishes so that I can do art and writing, not for AI to do my art and writing so that I can do my laundry and dishes.

[Post übersetzen](#)

12:50 nachm. · 29. März 2024 · **3,1 Mio.** Mal angezeigt

Outlook



AI Will Play a Bigger Role in Our Daily Lives

Klarna: AI-Chatbot ersetzt Arbeit von 700 Mitarbeiter:innen, spart 40 Mio. Dollar

<https://www.trendingtopics.eu/klarna-chatbot-700-mitarbeiter-ersetzen/>

IBM Announces about 8000 Layoffs amid AI Powered Initiative

<https://www.industryleadersmagazine.com/ibm-announces-about-8000-layoffs-amid-ai-powered-initiative/>

AI Will Play a Bigger Role in Our Daily Lives

‘Lavender’: The AI machine directing Israel’s bombing spree in Gaza

<https://www.972mag.com/lavender-ai-israeli-army-gaza/>

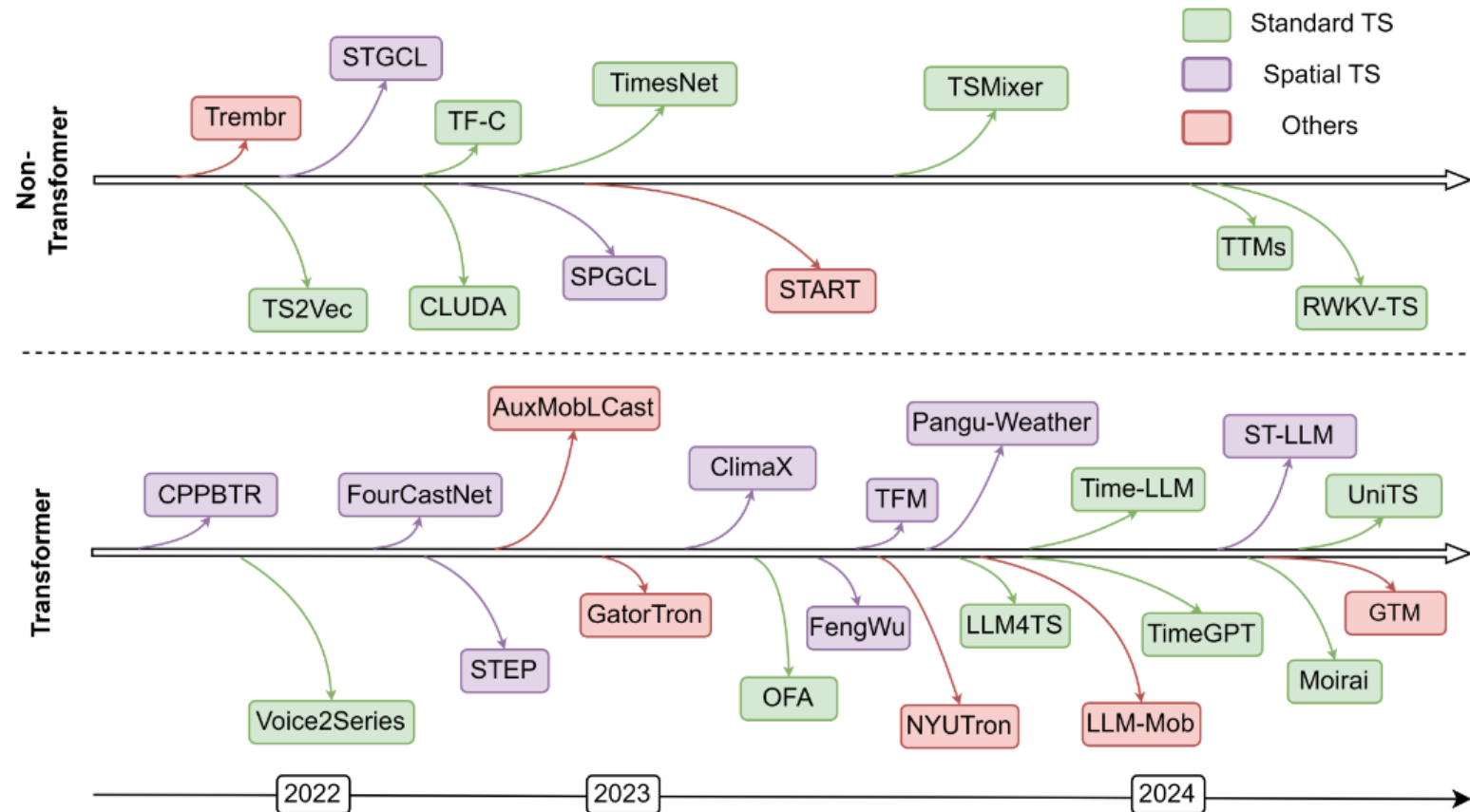
cepAdhoc

Information Technology

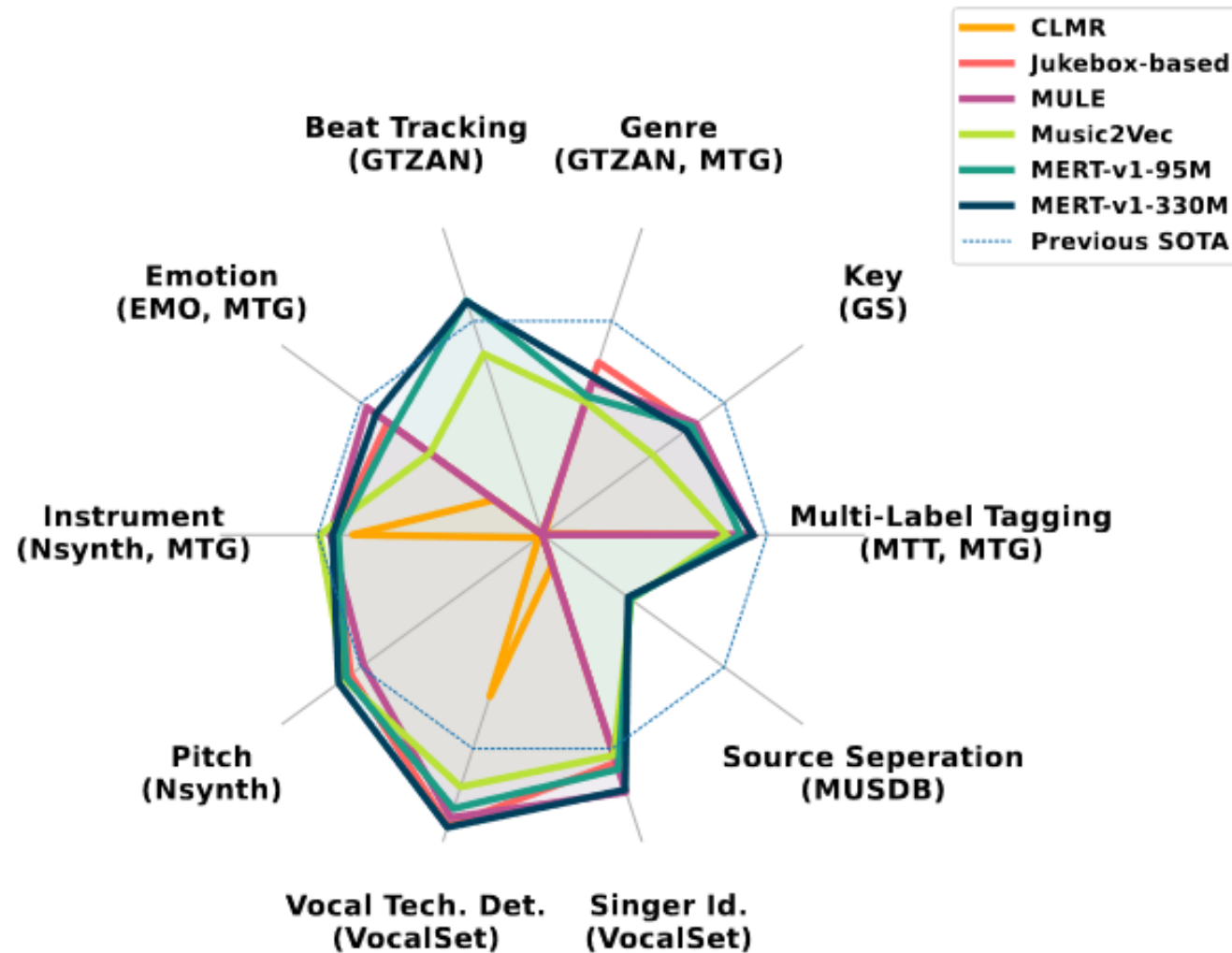
Advantage Ukraine: How AI is tipping the balance of war

<https://www.cep.eu/eu-topics/details/vorteil-ukraine-wie-ki-die-kraefteverhaeltnisse-im-krieg-veraendert-cepadhoc.html>

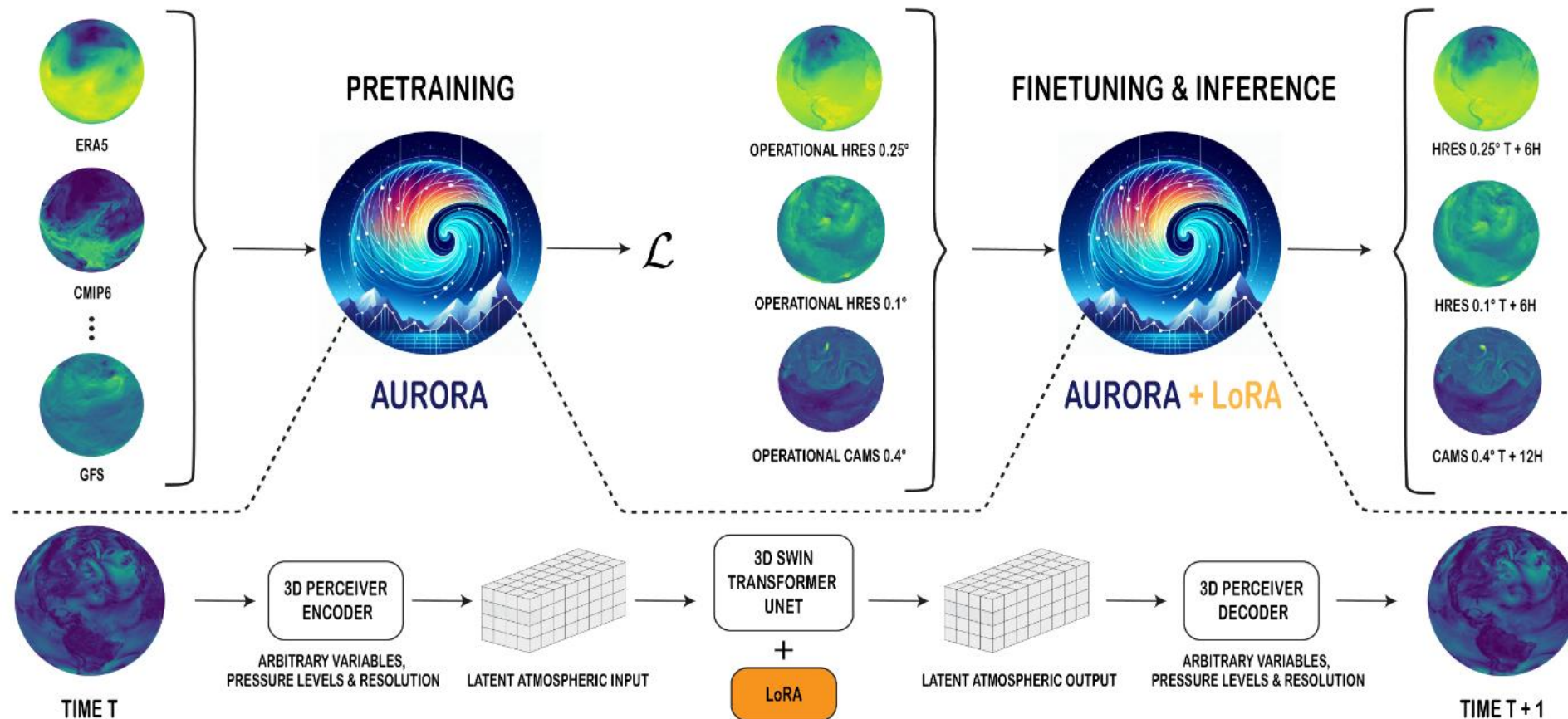
More Domains Will Shift to Foundation Models



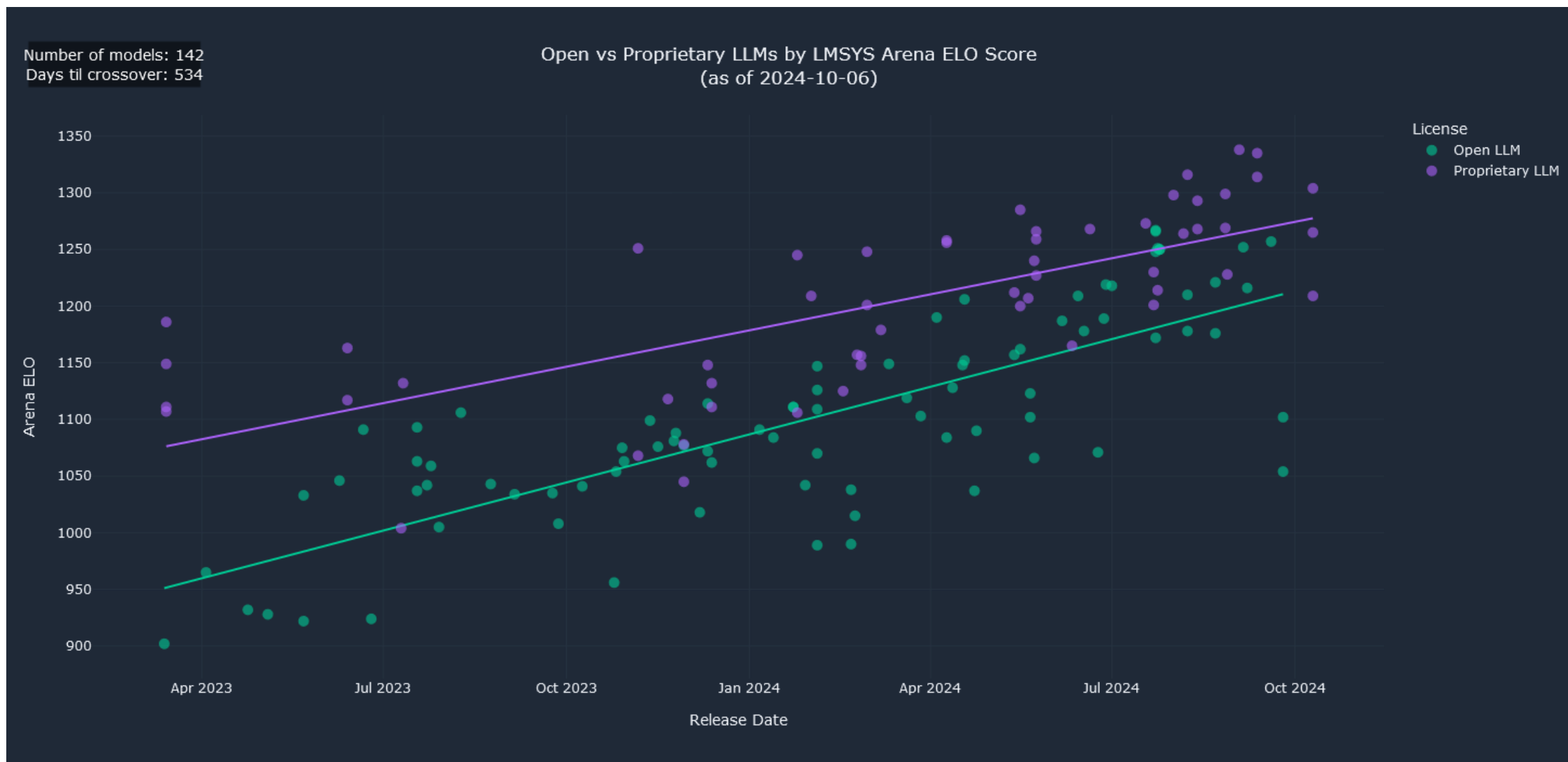
More Domains Will Shift to Foundation Models



More Domains Will Shift to Foundation Models



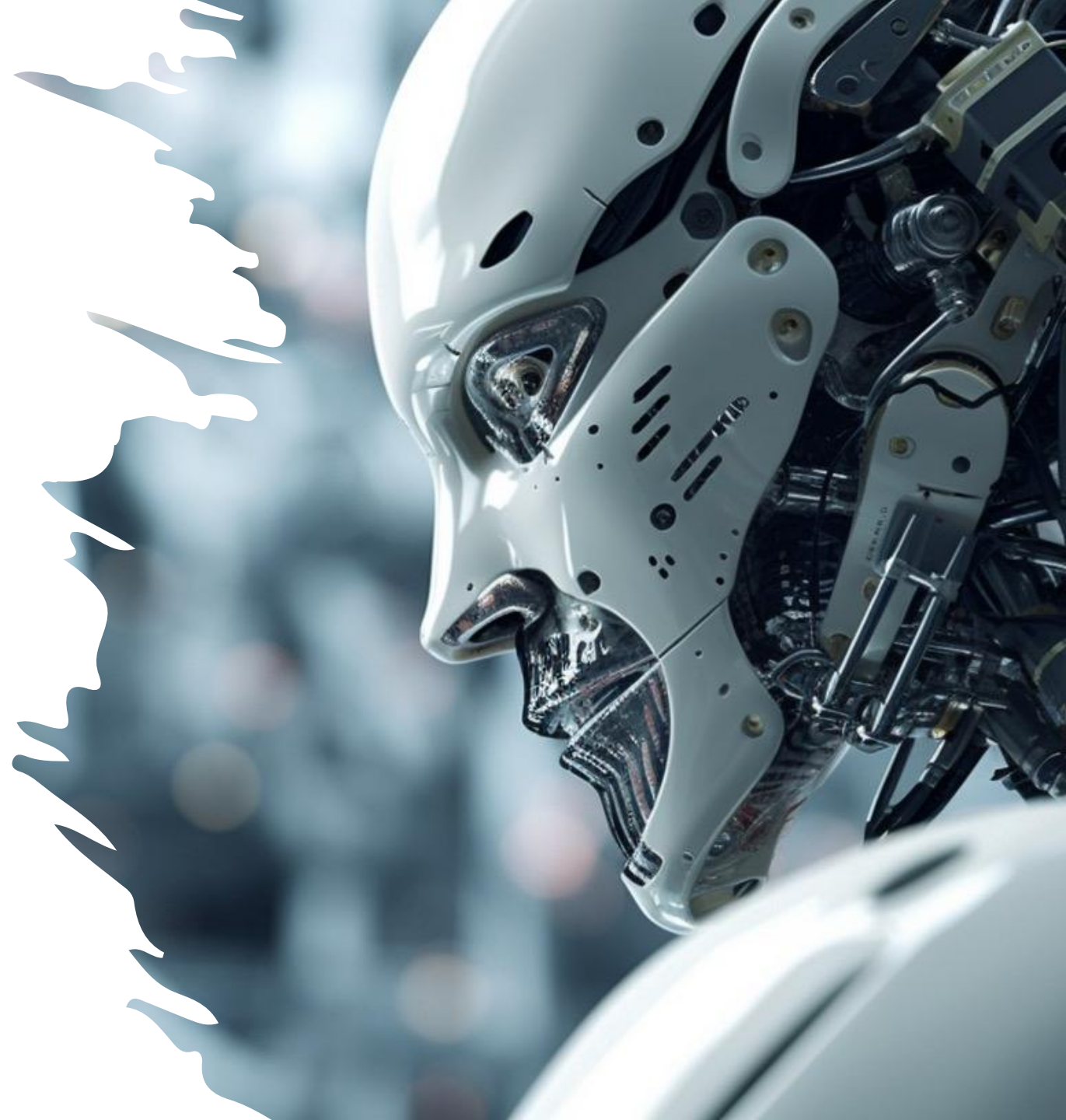
Models Will Be Commoditized



“We're entering a period of great uncertainty where we're dealing with things we've **never dealt with before**. And normally, the first time you deal with something totally novel, you get it wrong. And we **can't afford to get it wrong** with these things.”

Geoffrey Hinton, Godfather of Artificial Intelligence, Physics Nobel Prize 2024

Success Factors





Learn



Focus



Be

Learn ...

- the fundamentals
- to build with & using AI
- about new developments

continuously

Focus ...

- not on AI itself, but on AI for...
- on AI ethics & fairness
- on opportunities

Be ...

- curious
- open to change
- proactive



Thank you!

