

INDUSTRIAL REVOLUTIONS



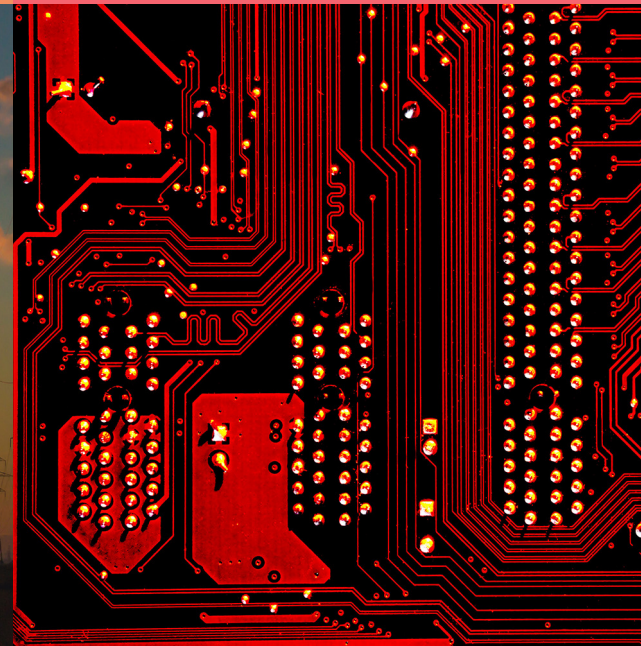
1784

1. Steam



1870

2. Electricity



1969

3. Computing



TODAY

4. Intelligence

INTERNET

MOBILE

CLOUD

AI



“We tend to overestimate the effect of a technology in the short run and underestimate the effect in the long run.”

RON AMARA

IMPACT OF TRENDS ON YOUR INDUSTRY


Near-Term Relevance ■ ■ ■ ■ ■ Long-Term Relevance

	AI	Generative AI	Bioengineering	Generative Bio	Computing Architecture	AR/ VR/ XR & Synthetic Media	Metaverse	Web3 Infrastructure	Mobility	Robots and Drones	Climate and Green Tech	Quantum
Agriculture	Light Blue	Light Blue	Light Blue	Light Blue	Dark Purple	Light Blue	Dark Purple	Dark Purple	Light Blue	Light Blue	Light Blue	Dark Red
Automotive	Light Blue	Light Blue	Dark Purple	Dark Red	Light Purple	Light Blue	Dark Purple	Dark Purple	Light Blue	Light Blue	Light Blue	Dark Red
Aviation and Travel	Light Blue	Light Blue	Dark Purple	Dark Red	Dark Purple	Light Blue	Dark Purple	Dark Purple	Light Blue	Light Blue	Light Blue	Dark Red
Construction, Engineering	Light Blue	Light Blue	Light Blue	Dark Purple	Light Purple	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Dark Red
Consumer Packaged Goods	Light Blue	Light Blue	Light Blue	Dark Purple	Dark Red	Light Purple	Dark Purple	Dark Purple	Light Purple	Light Purple	Light Blue	Dark Red
Education	Light Blue	Light Blue	Dark Purple	Light Purple	Light Purple	Light Blue	Light Purple	Dark Purple	Light Purple	Light Purple	Light Purple	Light Purple
Financial Services	Light Blue	Light Blue	Light Purple	Dark Red	Dark Purple	Light Blue	Light Purple	Light Blue	Light Purple	Dark Purple	Light Blue	Light Blue
Government and Policy	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
Health Care Systems and Services	Light Blue	Light Blue	Light Blue	Light Blue	Dark Purple	Light Blue	Light Purple	Light Purple	Light Purple	Light Blue	Light Blue	Dark Purple
Hospitality	Light Blue	Light Blue	Dark Purple	Dark Purple	Dark Red	Light Blue	Light Purple	Dark Purple	Light Purple	Light Purple	Light Blue	Dark Red
Media (Entertainment)	Light Blue	Light Blue	Dark Red	Dark Red	Light Purple	Light Blue	Light Blue	Light Blue	Light Purple	Light Purple	Light Blue	Dark Red
Media (News)	Light Blue	Light Blue	Dark Red	Dark Red	Dark Purple	Light Blue	Light Blue	Light Blue	Light Purple	Dark Purple	Light Purple	Dark Red
Pharmaceutical and Medical Products	Light Blue	Light Blue	Light Blue	Light Blue	Light Purple	Light Blue	Dark Purple	Dark Purple	Light Blue	Light Purple	Light Blue	Dark Purple
Public and Social Sectors	Light Blue	Light Blue	Light Purple	Light Purple	Dark Purple	Light Blue	Light Blue	Light Blue	Light Blue	Light Purple	Light Blue	Light Purple
Real Estate	Light Blue	Light Blue	Dark Purple	Dark Red	Dark Red	Light Blue	Light Blue	Dark Purple	Light Blue	Light Blue	Light Blue	Dark Red
Restaurants	Light Blue	Light Blue	Light Blue	Dark Purple	Dark Red	Light Purple	Light Purple	Dark Purple	Light Purple	Light Blue	Light Blue	Dark Red
Retail	Light Blue	Light Blue	Light Purple	Dark Purple	Dark Red	Light Blue	Light Purple	Light Purple	Light Blue	Light Blue	Light Blue	Dark Red
Space and Aerospace Defense	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Purple	Light Purple	Light Purple	Light Blue	Light Blue	Light Purple
Supply Chain and Logistics	Light Blue	Light Blue	Light Purple	Light Purple	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Dark Purple
Telecommunications	Light Blue	Light Blue	Light Purple	Light Purple	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue





AI IS THE NEW
ELECTRICITY

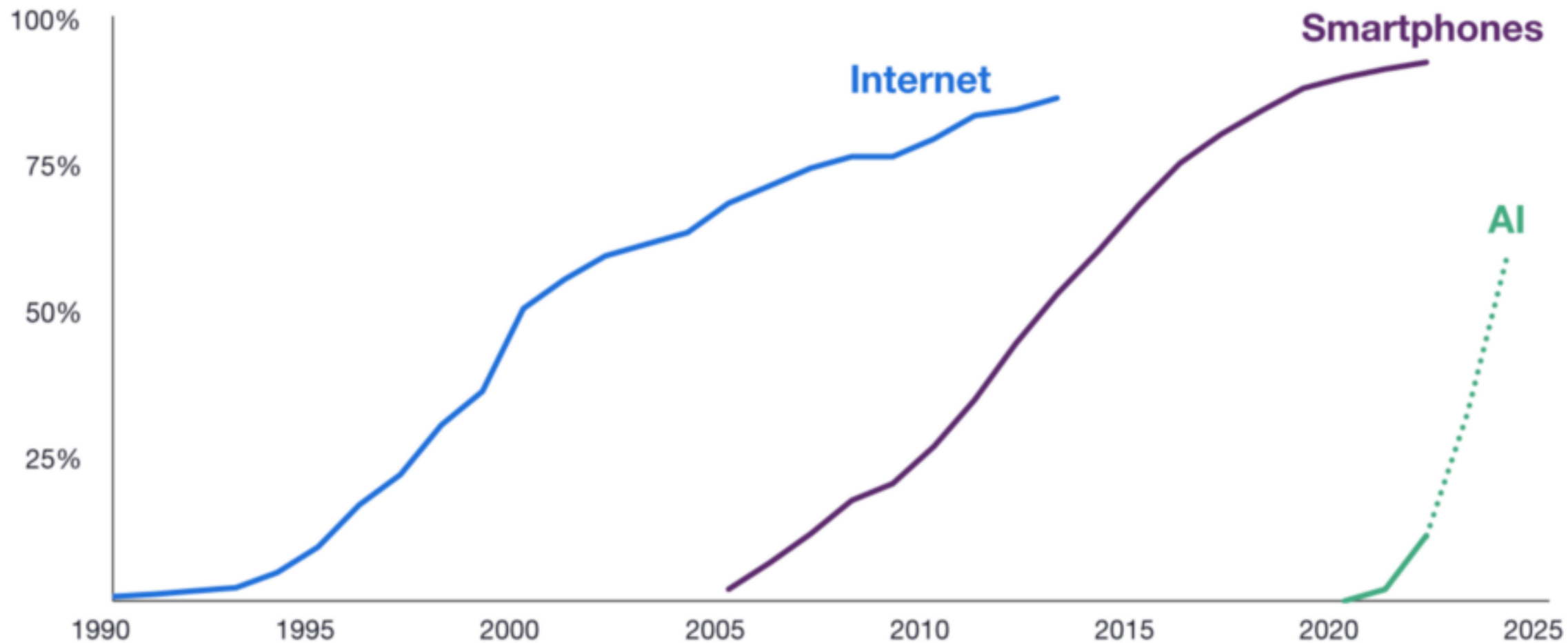


“AI is a force multiplier on technological progress because it is an enabler of other technologies and powers the evolution of business, government, and society.”

FUTURE TODAY INSTITUTE

We're at Day 1 of AI...and riding on top of past waves

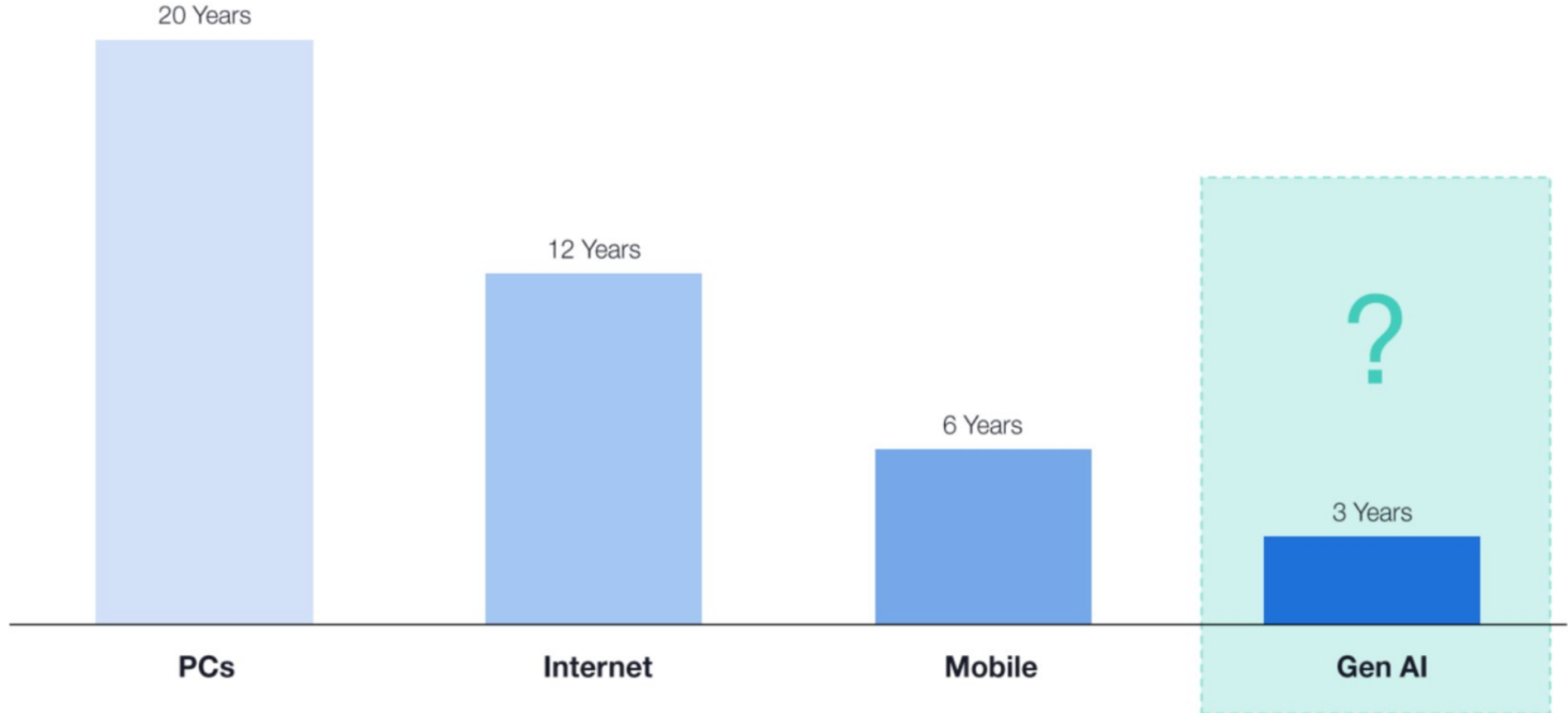
→ % US Technology Adoption



Adoption has been twice as fast with each platform shift

→ **Halving of penetration time with new technology waves**

of years to reach 50% user penetration in the US

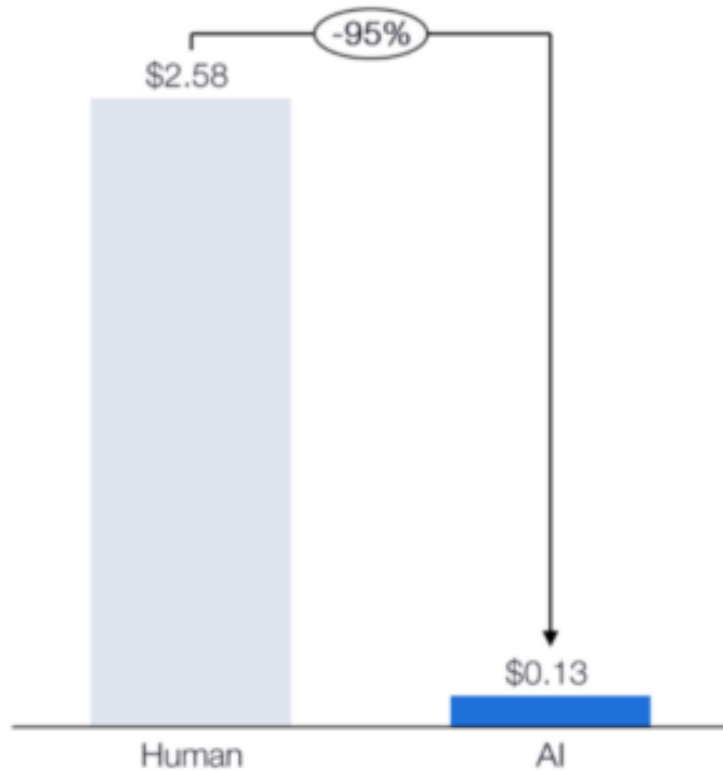


Companies have seen huge efficiency gains already

Experience from one Fintech company

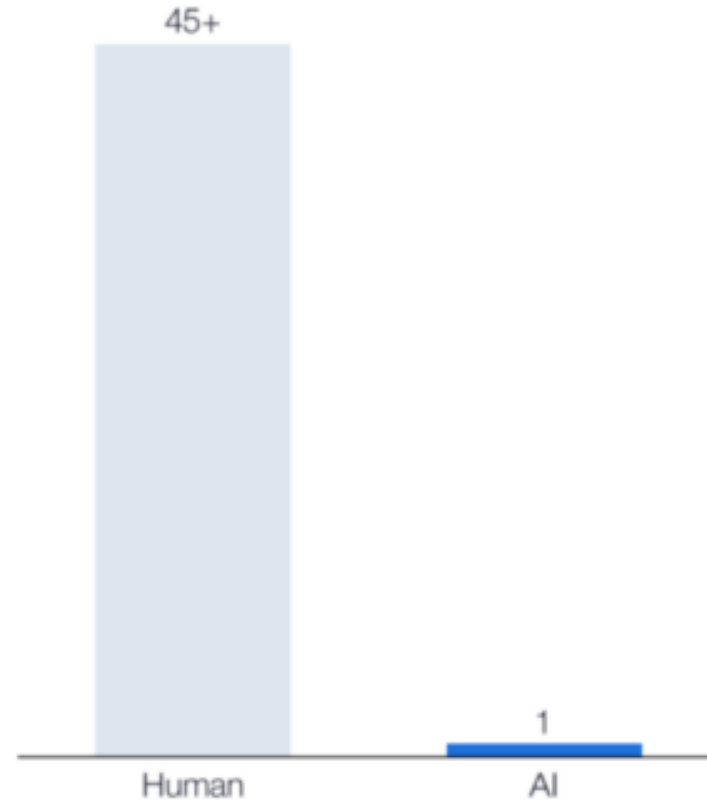
→ AI is cheaper customer support

Cost per support interaction



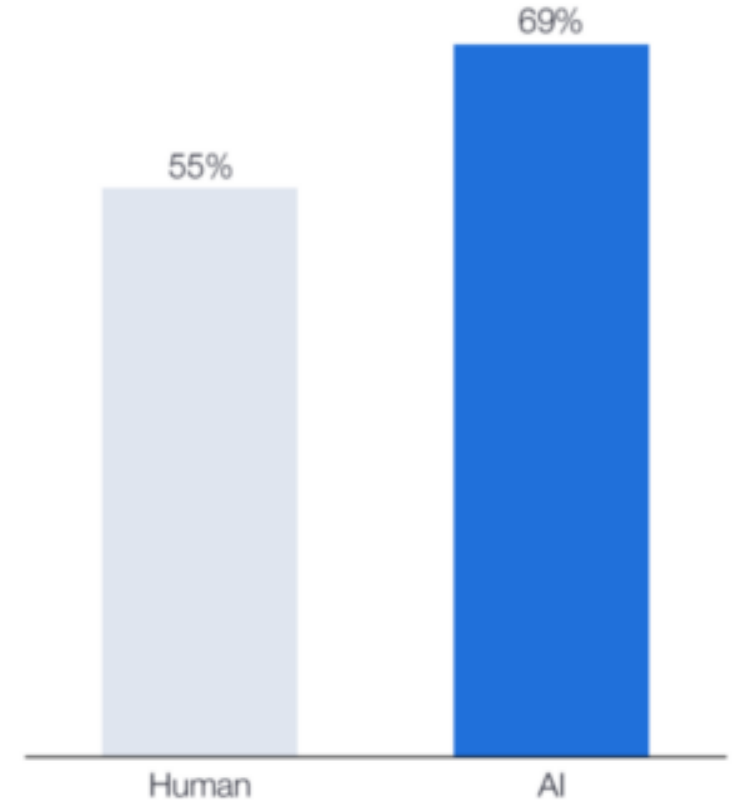
→ AI provides faster responses

Median response time (min)

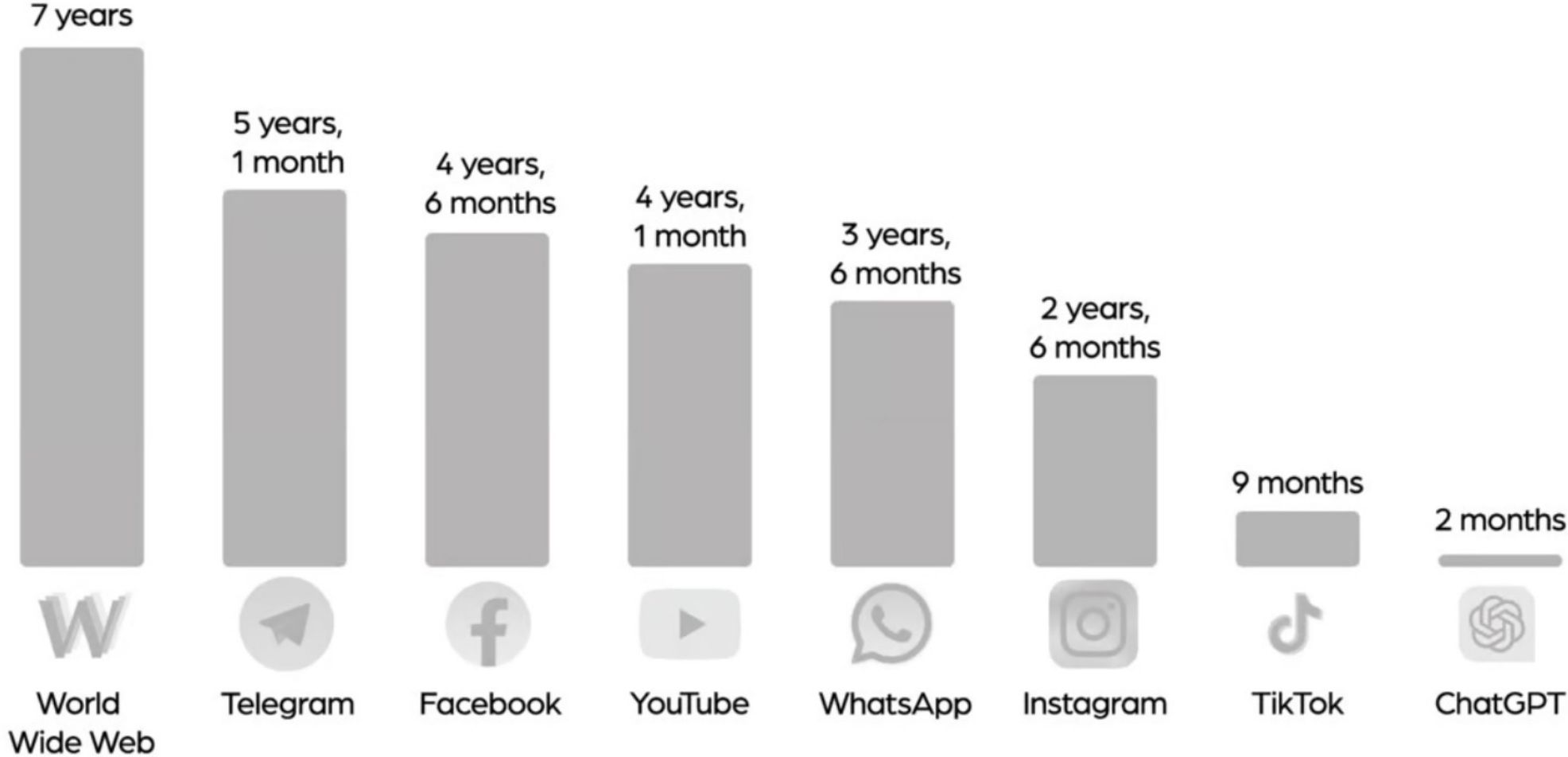


→ AI makes customers happier

Median customer satisfaction



TIME TO REACH 100 MILLION USERS



SOURCES: PWC, UBS

GENERATIVE AI MODELS

- **ChatGPT** (Open AI)
- **Gemini** (Google)
- **Copilot** (Microsoft)
- **Claude** (Anthropic)
- **Perplexity** (Perplexity AI)



**“I think it’s undeniable that enterprise employees...
have all tried ChatGPT and they know what amazing
looks like. They know where it’s early, and they know
where it’s inspiring...where they see greatness.
And so CIOs are under pressure to deliver that level.”**

JON TUROW



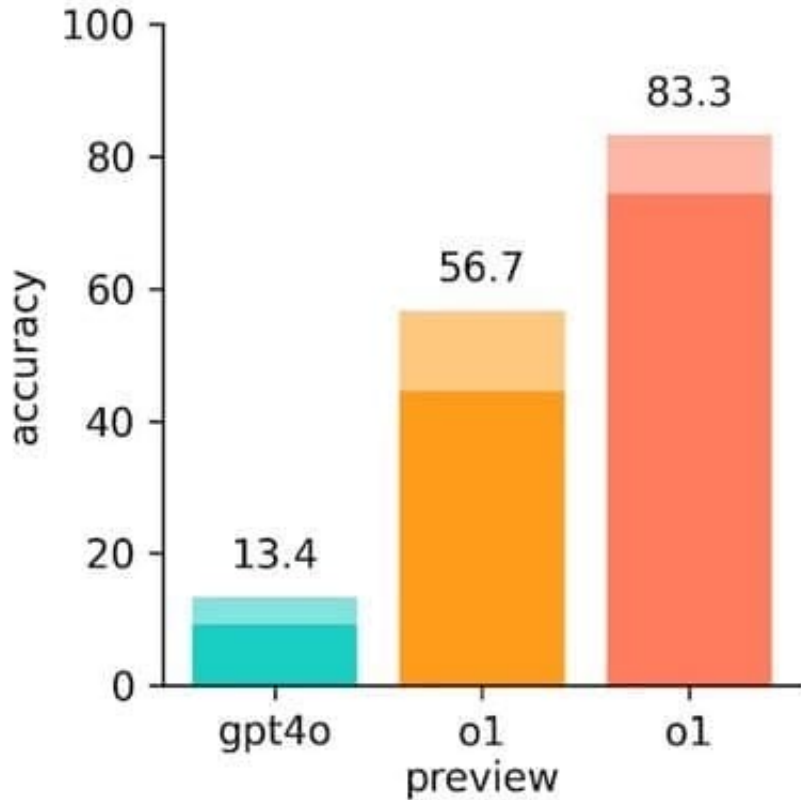
It's Wednesday at 4 pm. Can I park at this spot right now? Tell me in 1 line.



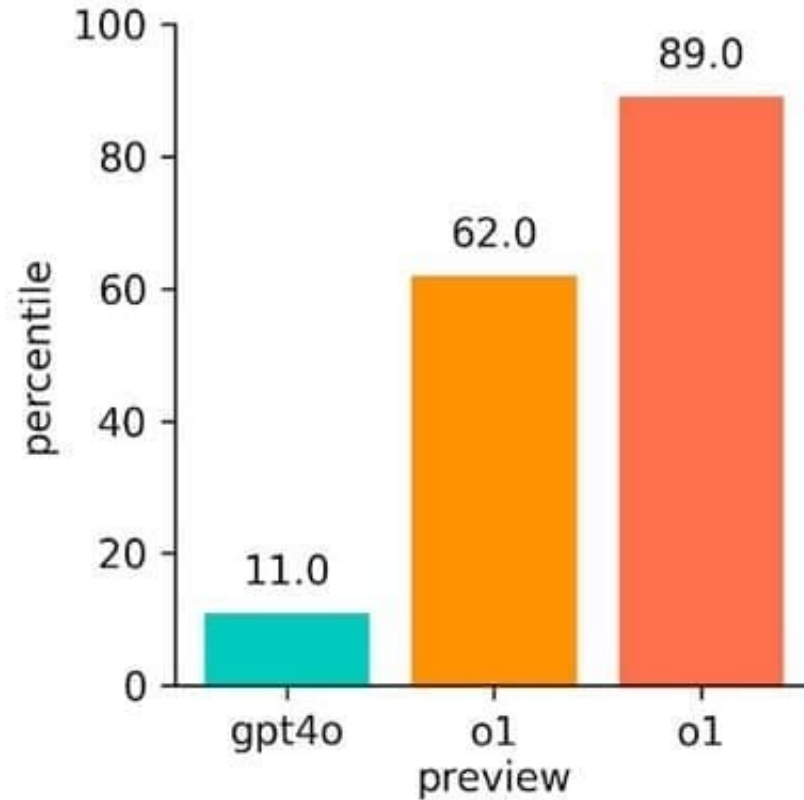
Yes, you can park for up to 1 hour starting at 4 pm.

OpenAI releases o1, its first model with 'reasoning' abilities

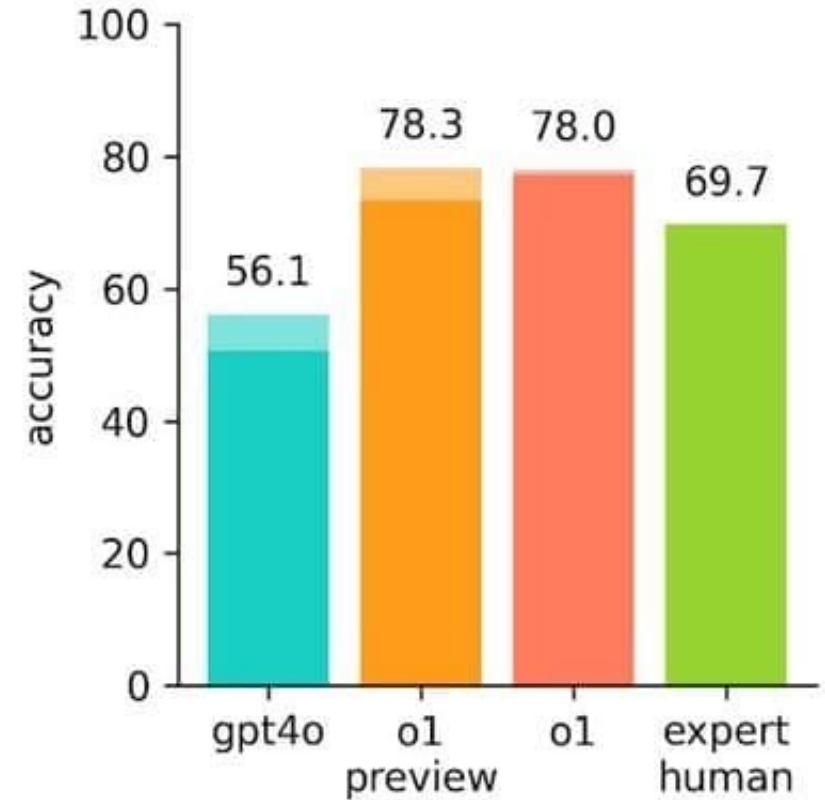
Competition Math
(AIME 2024)



Competition Code
(CodeForces)



PhD-Level Science Questions
(GPQA Diamond)

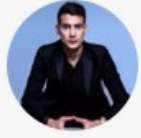




LLM
+
KNOWLEDGE GRAPH



INTELLIGENT AGENT



Mario Nawfal   @MarioNawfal · 53m

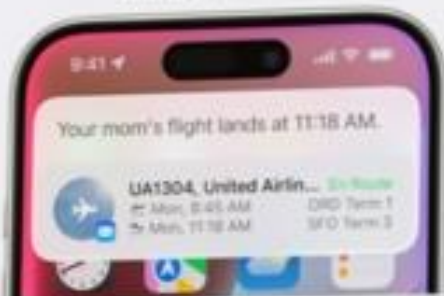


5: AI Assistants Everywhere:

According to Jensen Huang, the future is set for every company and every job role to be equipped with AI assistance, transforming how we work and interact with technology daily.



A more personal Siri



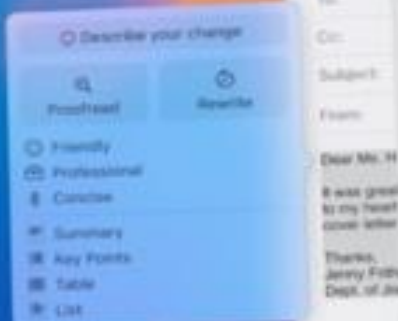
Private Cloud Compute



Clean Up
in Photos

Summaries
in Messages

Writing
Tools



Reduce Interruptions
in Focus

Apple Intelligence

Image Playground



Genmoji

Image Wand



Audio recording

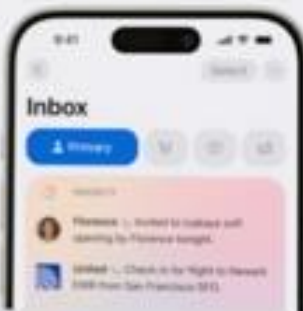


summaries

Create a Memory Movie

Describe a Memory...

Priority messages in Mail



Priority notifications



Natural language search

Live Broadcast

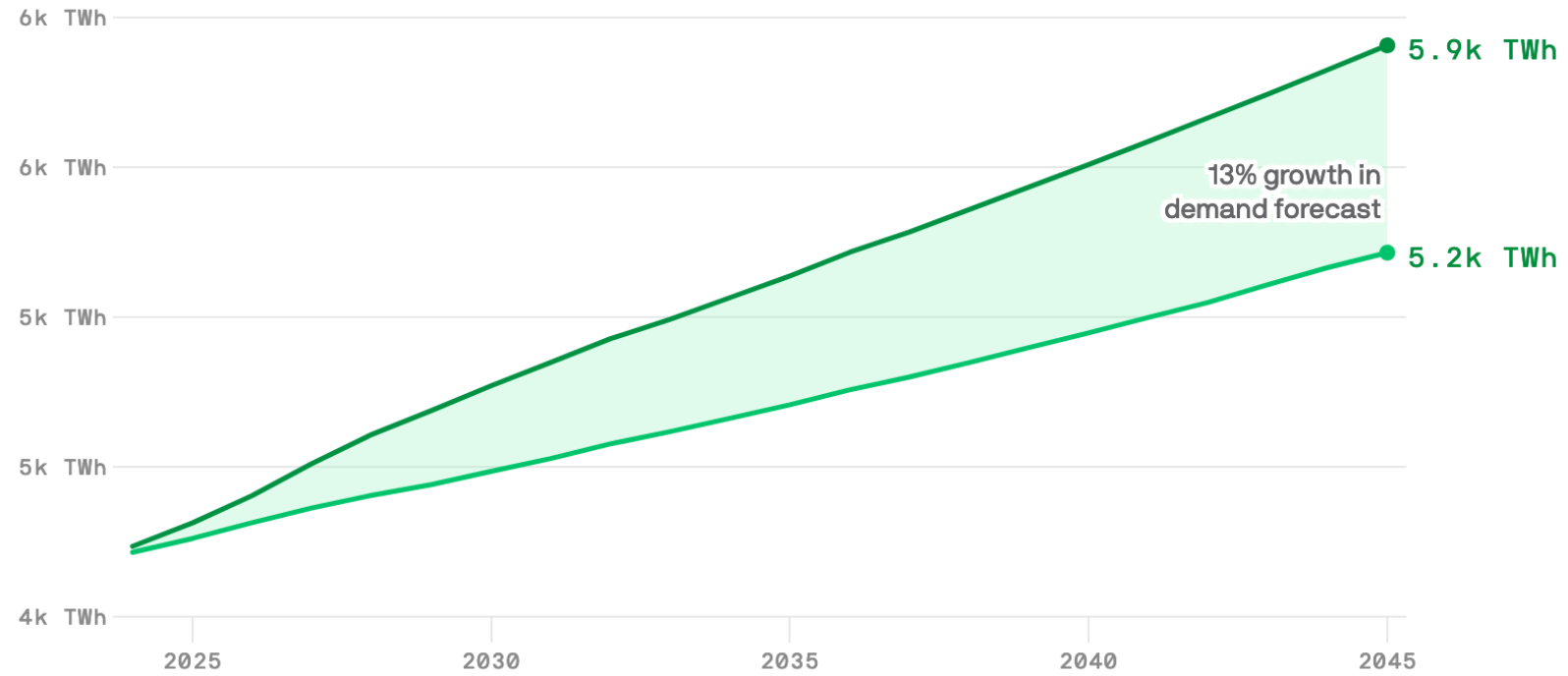


THE IMPLICATIONS OF SCALING AI 10,000x BY 2030

1. POWER

Projected U.S. energy demand

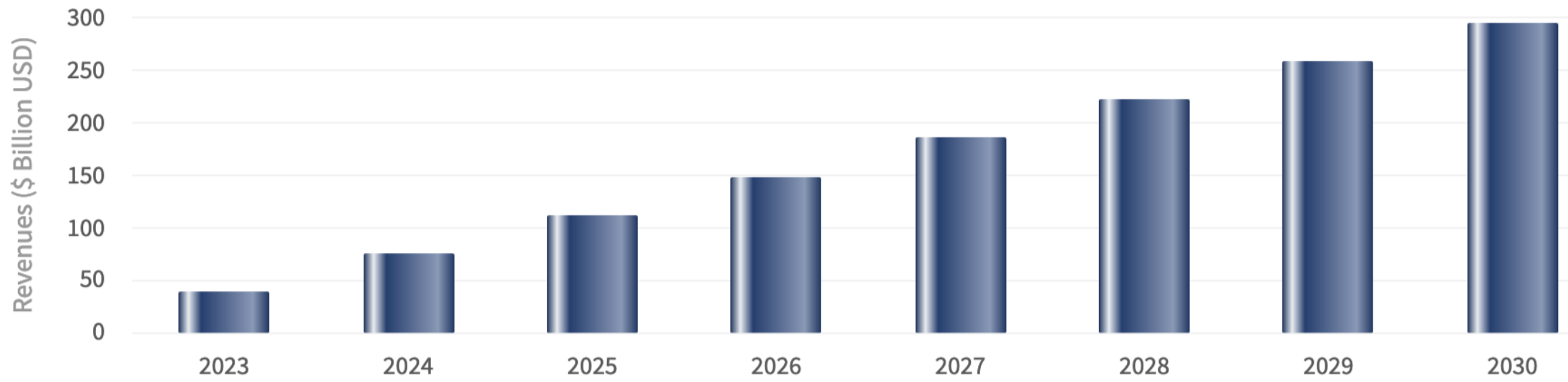
Annual projections in terrawatt hours, 2024–2045



Data: ICF; Note: Forecasts are from Q1 of each year; Chart: Axios Visuals

2. CHIPS

Artificial Intelligence (AI) Chip Market Revenue, 2023-2030 (Billion USD)

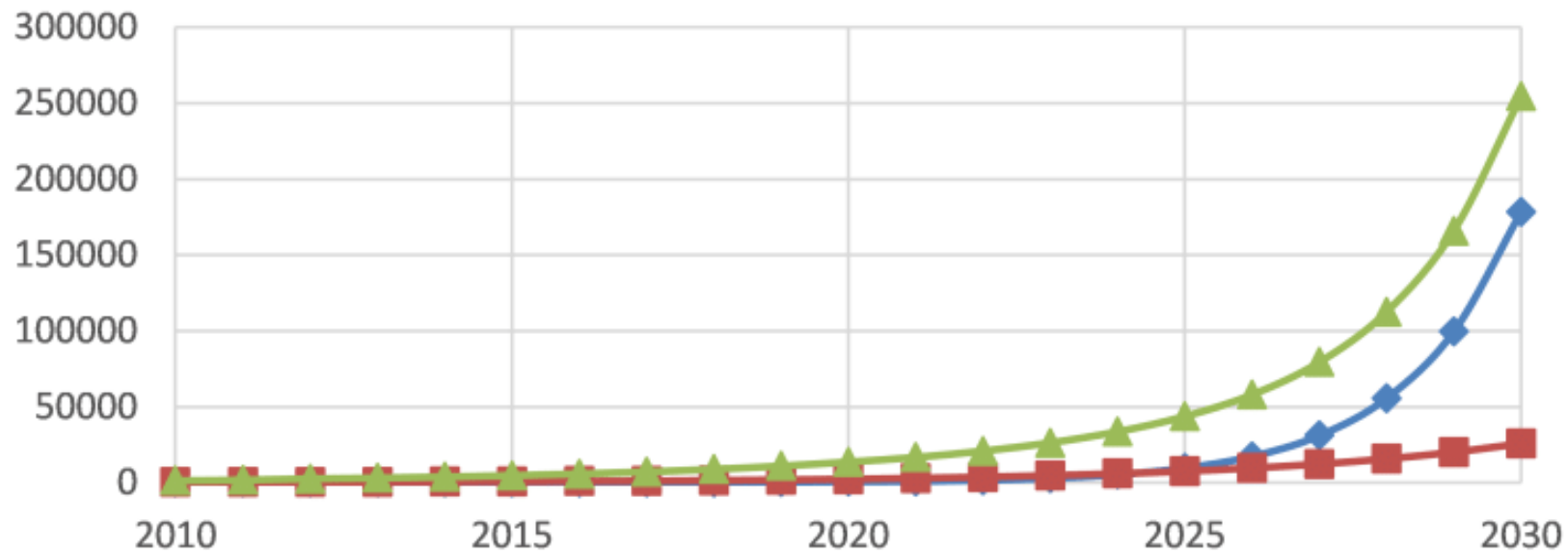


Source : Next Move Strategy Consulting

3. DATA

A "TSUNAMI" OF DATA IS COMING?

- ◆ Mobile Data traffic (ExaBytes/year), implies power for radio transmission [5,9]
- Fixed data traffic total expected (ExaBytes/year) [5]
- ▲ Global Data Center IP Traffic (ExaBytes/year), implies power for computations [5,9]



4. LATENCY

The background features a dark blue field filled with glowing binary code (0s and 1s) in various colors like cyan, magenta, and yellow. On the left side, there are several curved, overlapping lines in shades of blue, purple, and yellow, creating a sense of motion and data flow towards the right.

Epoch estimates that, under current practices, we could train AI models with upwards of 1,000,000 times more computing power than GPT-4.

5. INVESTMENT

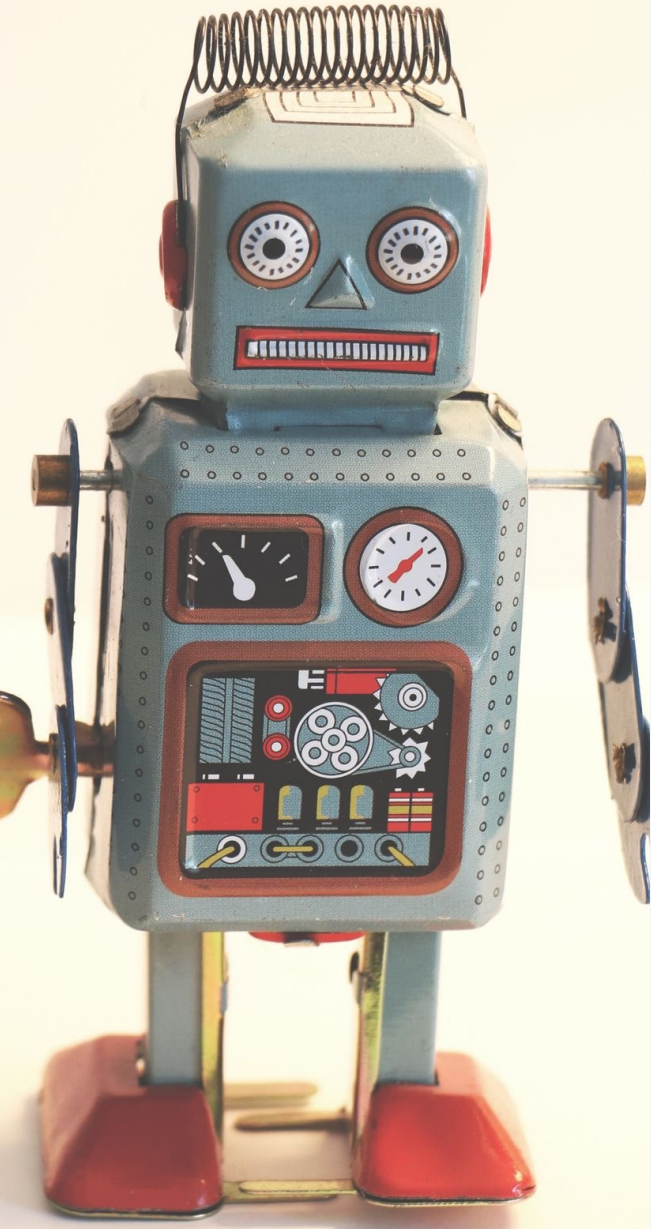


Anthropic CEO Dario Amodei estimates that training costs could hit \$100 billion per model in the coming years.



“AI is whatever hasn't been done yet.”

LARRY TESLER



Generalizable Robotics Represent A Potential \$24+ Trillion Global Revenue Opportunity

Household Robotics



~2.3 Hours of Unpaid Work per Day



~2.8 Billion Working Age Population



~\$10.75 Weighted Average Hourly Wage



½ Value Attributed to Free Time vs Paid Time



~\$12.5 Trillion Opportunity

Manufacturing Robotics

ARK Forecasts Global Manufacturing GDP At ~\$28.5 Trillion In 2030

Productivity Uplift

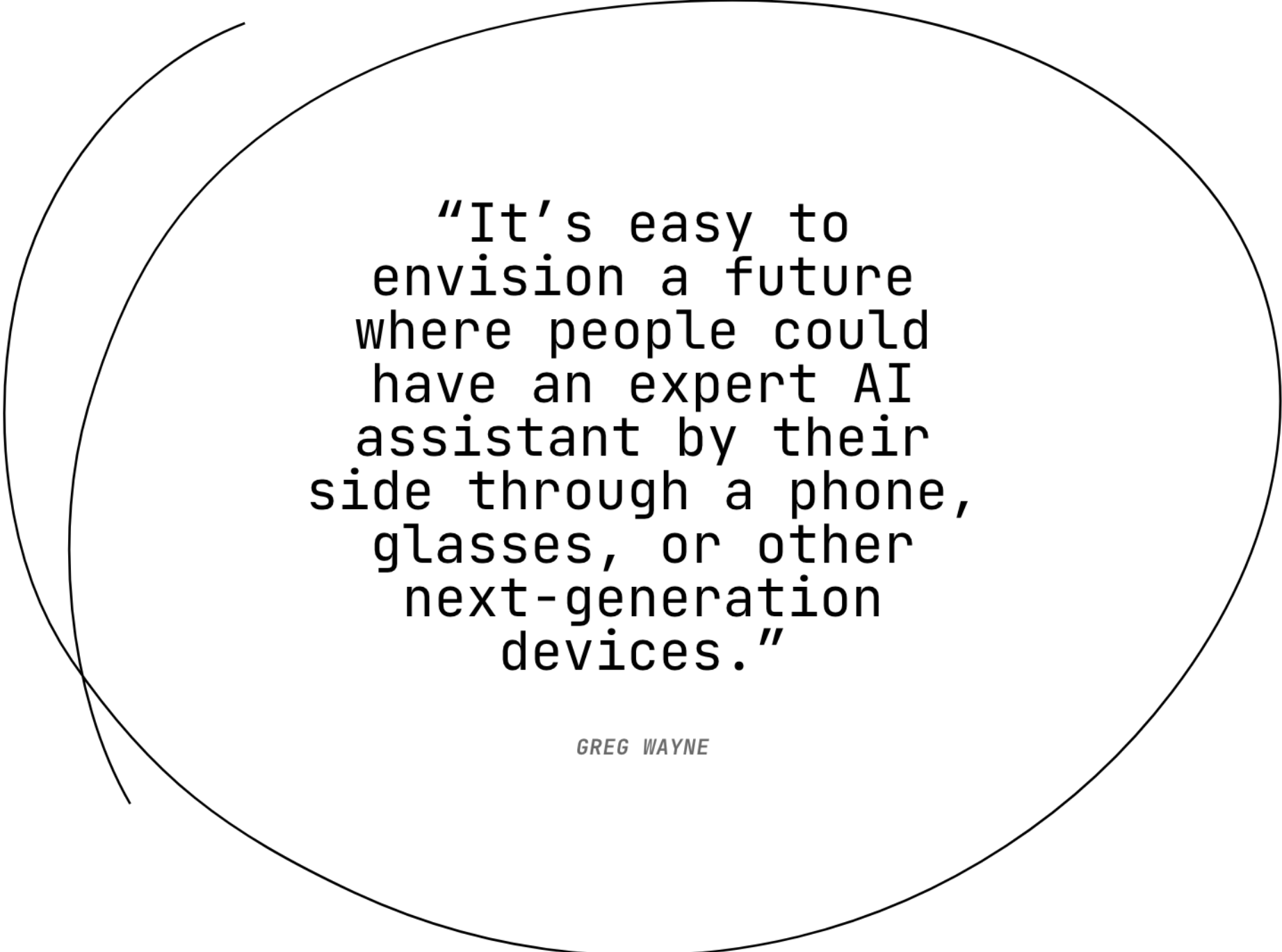
	10%	25%	50%	100%	200%	400%
10%	286	714	1,429	2,857	5,715	11,430
20%	571	1,429	2,857	5,715	11,430	22,860
50%	1,429	3,572	7,144	14,287	28,575	57,149

Take Rate

Revenue Opportunity* (Billions)



~\$12+ Trillion Opportunity
(Average Of The Green Cells)



"It's easy to envision a future where people could have an expert AI assistant by their side through a phone, glasses, or other next-generation devices."

GREG WAYNE

FUTURE OF WORK





“Don’t compete with AI for the job,
learn to use the AI to do your job better.”

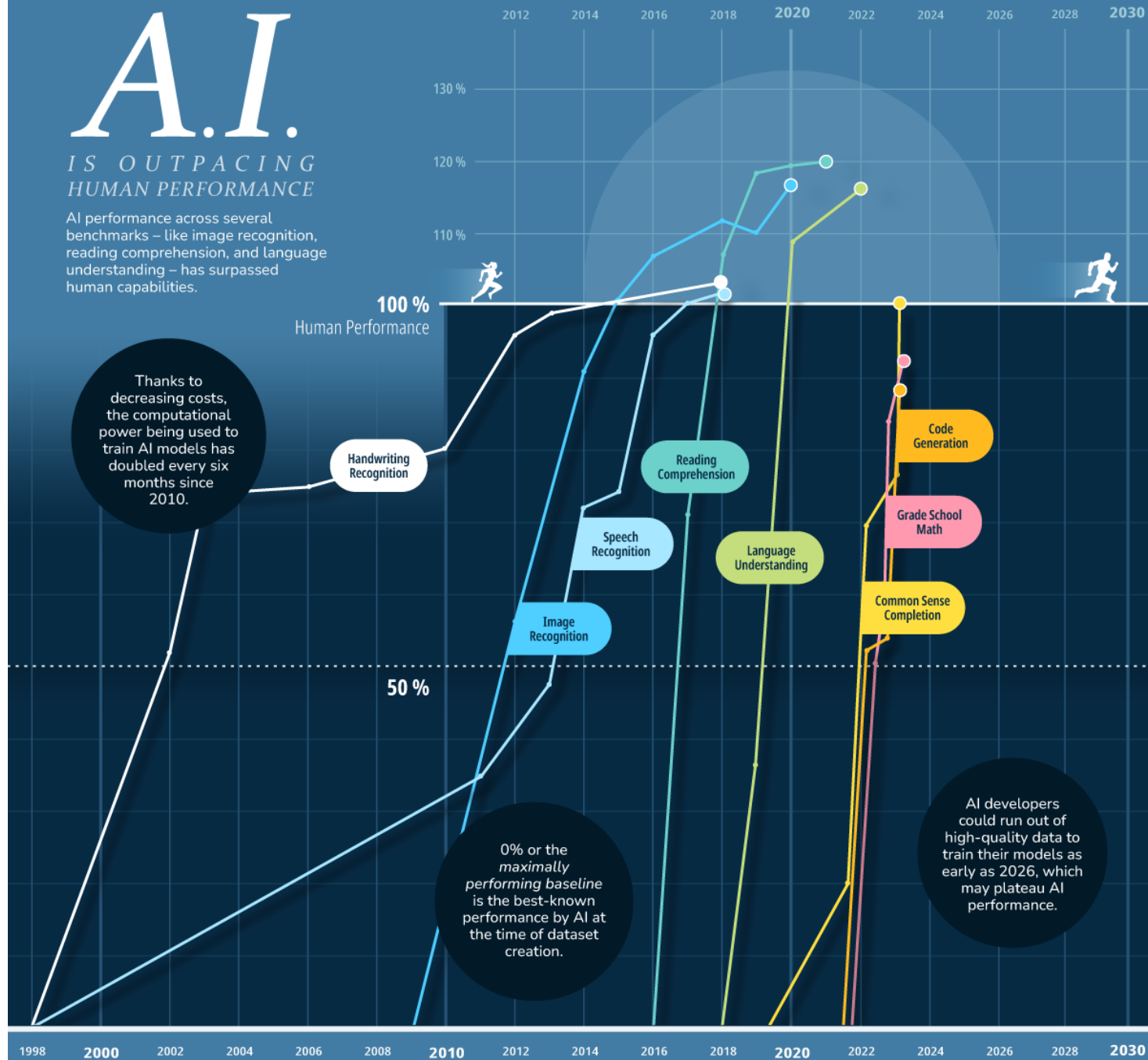
LEX FRIDMAN

AI vs. Humans: Which Performs Certain Skills Better?

A.I.

IS OUTPACING HUMAN PERFORMANCE

AI performance across several benchmarks – like image recognition, reading comprehension, and language understanding – has surpassed human capabilities.



40% of global workforce need to be reskilled in next 3 years due to AI, IBM study finds





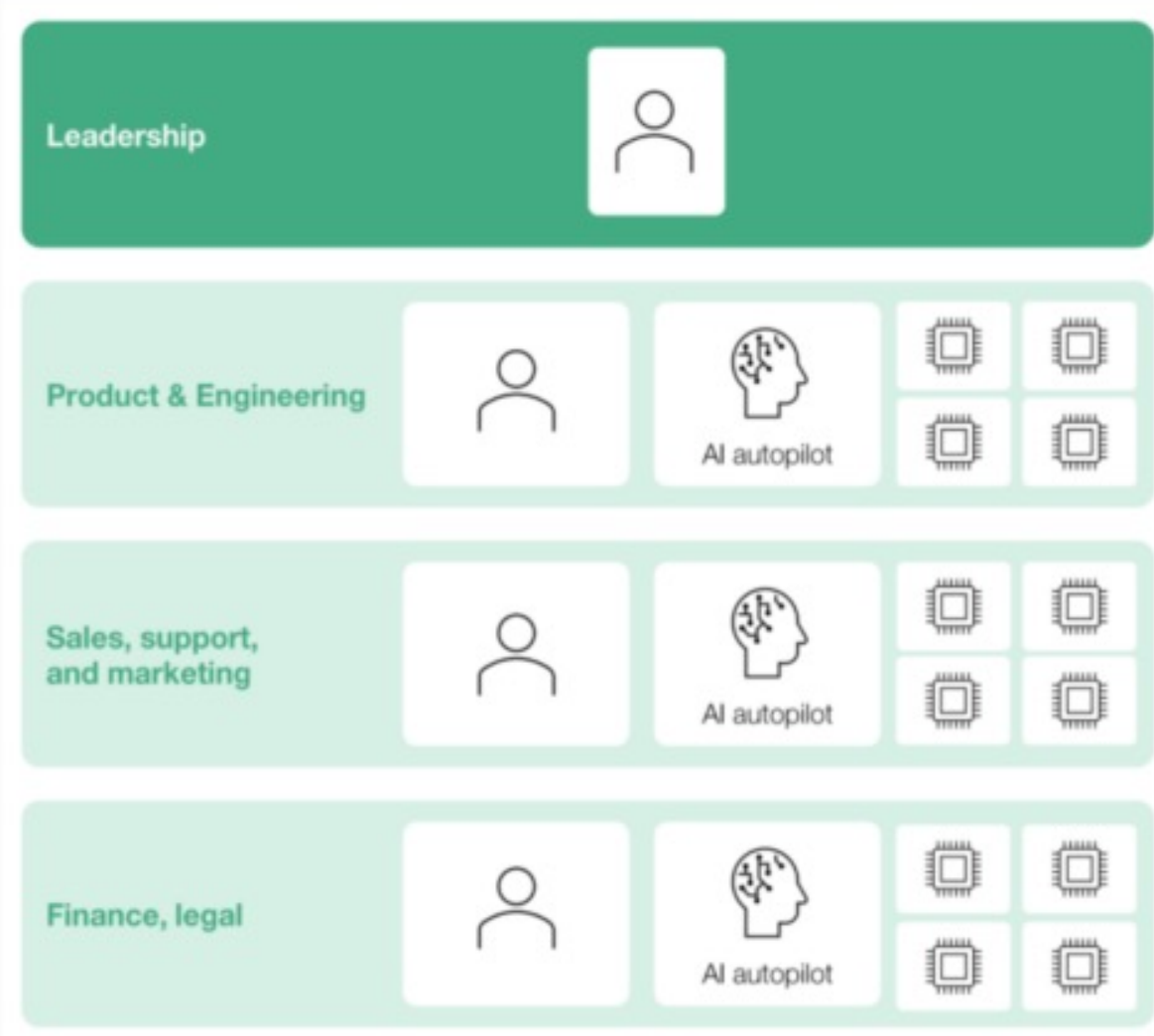
The **FUTURE OF WORK**
is human-AI collaboration

Example: AI as an autopilot could transform org structures

→ Previously, scaling businesses meant scaling headcount



→ With AI, scaling business means scaling compute!





IBM research found that 83% of executives say generative AI will reinvent the way their organization works.

A vibrant, futuristic digital landscape. The scene is dominated by a central, glowing brain-like structure composed of intricate, multi-colored data streams and circuitry. This structure is surrounded by a dense network of light trails, including a prominent blue stream that flows from the bottom center towards the brain. The background features a grid of glowing lines and various digital elements, creating a sense of depth and complexity. The overall color palette is rich with blues, purples, and oranges, set against a dark, starry background.

WHAT DOES ALL THIS MEAN FOR YOU?

A collection of vintage electronic devices, including televisions and radios, with the text "AI TRANSFORMATION" overlaid. The devices are arranged in a dense, overlapping manner, with some glowing from internal lights. The background is dark, making the glowing elements stand out.

AI TRANSFORMATION

- LLMs are going to be the default interface for all computing
- It's all about the data layer
- Efficiency driver using new processes
- Deeper understanding of the customer

WHY GEN AI?

- Automate mundane work while optimizing human talent
- Optimize business processes end-to-end
- Deliver hyper-personalized customer experiences
- Accelerate innovation and new product development



IT'S STILL EARLY DAYS

Key Takeaways:

1. Human-AI collaboration is not about replacement, but **augmentation** of human capabilities.
2. Building **AI literacy** across the organization is crucial for successful adoption.
3. **Ethical** considerations and responsible AI practices are non-negotiable.
4. CIOs must lead by example, fostering a **culture** of AI adoption and experimentation.
5. Prioritize AI projects that deliver measurable **business value**.
6. **Modernizing** data infrastructure is essential for scaling AI initiatives.
7. The future of IT lies in the **seamless integration** of human expertise and AI capabilities.

This structure provides a comprehensive overview of the human + AI equation, tailored to the interests and concerns of CIOs. It covers current trends, challenges, strategies for implementation, and future outlook, offering practical insights that the audience can apply in their organizations.

 Share  Rewrite



FOOD FOR THOUGHT

- ✓ Don't just "bolt on" AI - integrate it holistically
- ✓ Focus on augmenting people first (education and training) before full automation - balance automation with human judgment
- ✓ Develop responsible AI practices for ethics, bias, fairness, transparency
- ✓ Build a culture of experimentation and learning

A perspective view of a brightly lit hallway with a red-to-orange gradient, leading to a bright light at the end.

THE OPPORTUNITY



“Knowledge is knowing a tomato
is a fruit, wisdom is knowing
not to put it in the fruit salad.”

MILES KINGTON

The background is a vibrant, abstract composition of various colored triangles and polygons in shades of green, red, purple, blue, and yellow. Two circular insets, one on the left and one on the right, show a dark sky with several white stars and a larger, bright white star. The text is centered in the middle of the image.

The **HARD** part
is the **HUMAN** part



Humans

creativity

critical thinking

strategy

intuition

AI

speed

scale

pattern recognition

efficiency

HUMAN + AI





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