

# What Meta's Cicero and bots that code could mean for highly skilled workers

Article

**The data:** Automation is in part to blame for worsening wage inequality in the US over the past 40 years, according to **MIT** research.

- US men without high school degrees earned **15% less in 2016 than in 1980**, accounting for inflation, despite the US GDP growing from **\$6.82 trillion in 1980 to \$18.7 trillion in 2016**, per [New Atlas](#).
- Rapid automation of routine tasks in industries is responsible for **50% to 70% of the increase in US wage disparities** over the last four decades, the MIT economists concluded.

**What it means for the elite workforce:** Using AI, Big Data, robotics, cloud computing, and rising compute power to [fulfill more workplace roles](#) could chip away at tasks done by the most educated, highly skilled workers.

Three recent examples illustrate the threat:

Meta AI's [Cicero program achieved more than double the average score of human opponents](#) in the strategic board game **Diplomacy** using skills like natural language, negotiation, persuasion, and functional “empathy.” AI's ability to outwit humans in a game of social strategizing, coupled with data analytics, could enable it to perform tasks currently fulfilled by business executives and government officials.

- **Google** has demonstrated that it can use large language models (LLMs) to teach robots how to write their own code as part of its [PaLM-SayCan research](#), which could endow them with complex reasoning, technical, and physical skills useful in a variety of industries.
- And MIT researchers building self-assembling robots—alongside advances in end-of-arm tooling, sensors, and computer vision—could soon eliminate the need for human dexterity in advanced manufacturing.

**Automation management is the future of work:** The tight labor market is fueling the [push for automation](#) as corporations struggle to meet profit margin expectations amid [growth headwinds](#).

- The increasing prowess of AI and robotics makes the future of work a focal point.
- This year's [debut of generative AI](#) that can create art, music, write, code, and more has debunked robotics industry leaders' refrain that automation will free humans to pursue creative work.
- But a myriad of AI programs—like Meta's [Galactica AI](#)—that presented false and biased information as scientific fact gives a glimpse of people's role in the fourth industrial revolution.

- Lacking human values, **advanced AI-powered programs and machines will require human management and surveillance, much of which will likely take place in the cloud and could result in an influx of new jobs.**
- This oversight role may be challenged by [AIs learning to cheat](#), as **Oxford University** and **Australian National University** researchers have warned. Meta's Cicero gives credence to the possibility.

**Processes That Feature AI in Day-to-Day Use at Their Company According to Tech/Media/Telecom Executives Worldwide, May 2022**

% of respondents

<b>Operations and finance</b>	
Cloud pricing optimization	48%
Backend and production operations automation	43%
Research and development	43%
Experimentation and testing	42%
IT operations management	42%
Predictive maintenance	42%
Digital assets/twins	41%
Uptime/reliability optimization	41%
Data privacy and governance	40%
<b>Customer experience and marketing</b>	
Customer feedback analysis	45%
Customer service operations	44%
Voice assistants, chatbots, and conversational AI	44%
Personalization	42%
Contact center optimization	41%
<b>Workforce and HR</b>	
Workforce scheduling optimization	41%

Note: n=645

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