

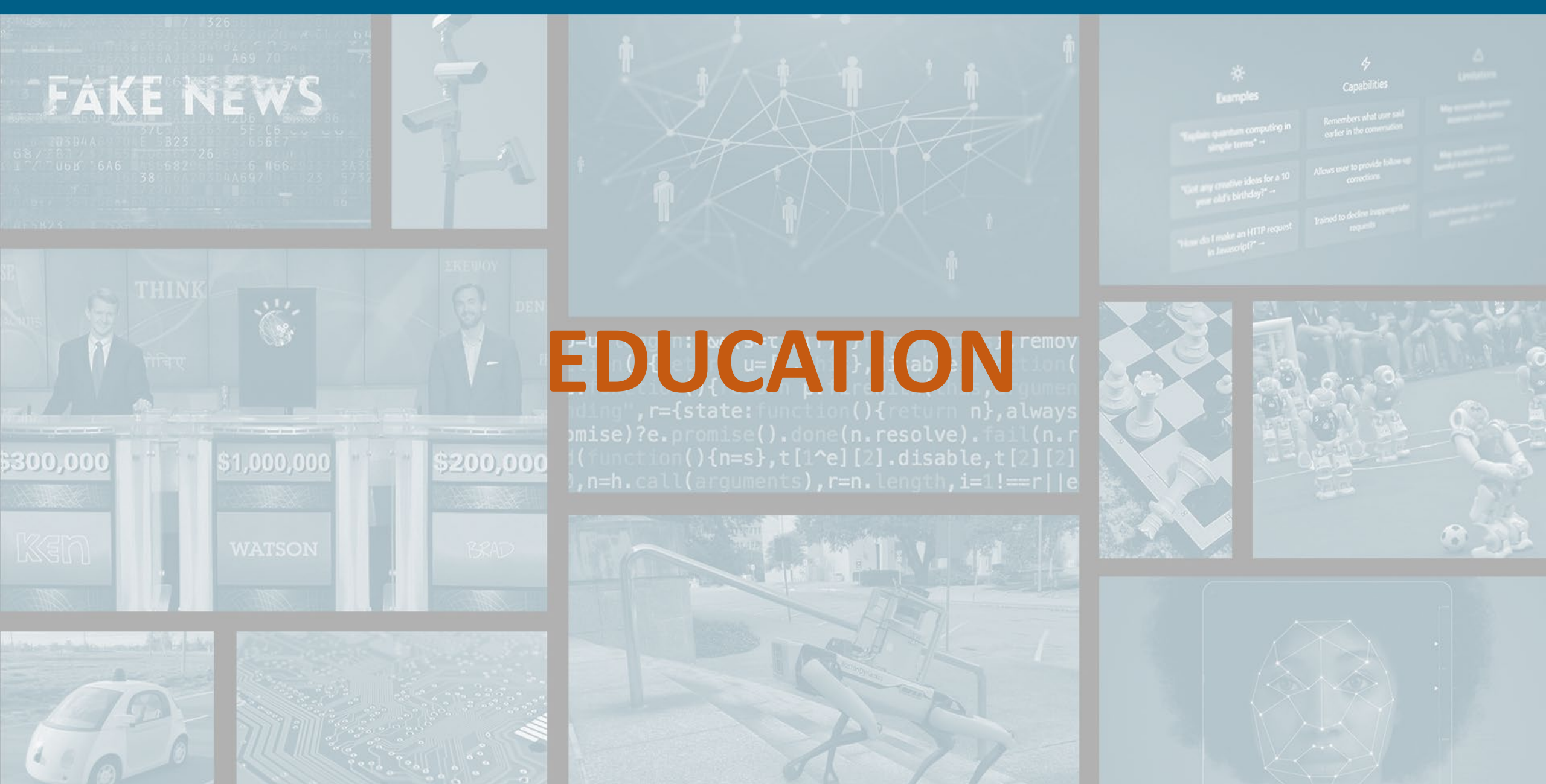
# New Jobs, Key Workplace Skills, Predictions about AI and the Economy

Sherri R. Greenberg

**“AI Won’t Replace Humans —  
But Humans With AI Will  
Replace Humans Without AI”**

# Jobs Being Created - Examples

- **AI Ethics Officer:** Private sector companies, nonprofits, and governments will create executive level officer positions to develop and implement ethical AI policies.
- **AI-Assisted Healthcare Provider:** Doctors will use AI to sift through large data sets to help them diagnose and provide treatments.
- **Prompt Engineer:** People will serve as intermediaries between machine learning models and users and who create prompts with words and feed them back into the models to get the models to perform a task such as writing a summary.



# EDUCATION

# Future Skills

- Analytical Abilities
- How to Learn
- How to Think
- Upskilling
- Reskilling



# Reskilling

- Reskilling is training and/or educating people for new jobs that are truly different from their current jobs.
- Reskilling often is the result of jobs becoming obsolete.

**FOR INSTANCE, CURRENT & FUTURE WORKERS WITH JOBS IN CODING OR GRAPHIC DESIGN MAY NEED TO ACQUIRE NEW SKILLS INSTEAD IN MANAGEMENT. THIS COULD REQUIRE GETTING A CERTIFICATION OR AN ADVANCED DEGREE.**

# Upskilling

- Upskilling is training and/or education people to perform enhanced, improved, or higher-level functions in their current jobs.
- Frequently, upskilling results from new technologies.

**STUDENTS WILL NEED TO LEARN MORE ADVANCED SKILLS SUCH AS HIGHER-LEVEL DATA ANALYSIS RATHER THAN CREATING SPREADSHEETS.**

# All Education Levels

**Teach appropriate AI knowledge at all education levels**

K-12

Community Colleges

Undergraduate & Graduate Students: AI as part of all curriculum

In the Community - recreation centers, libraries etc.



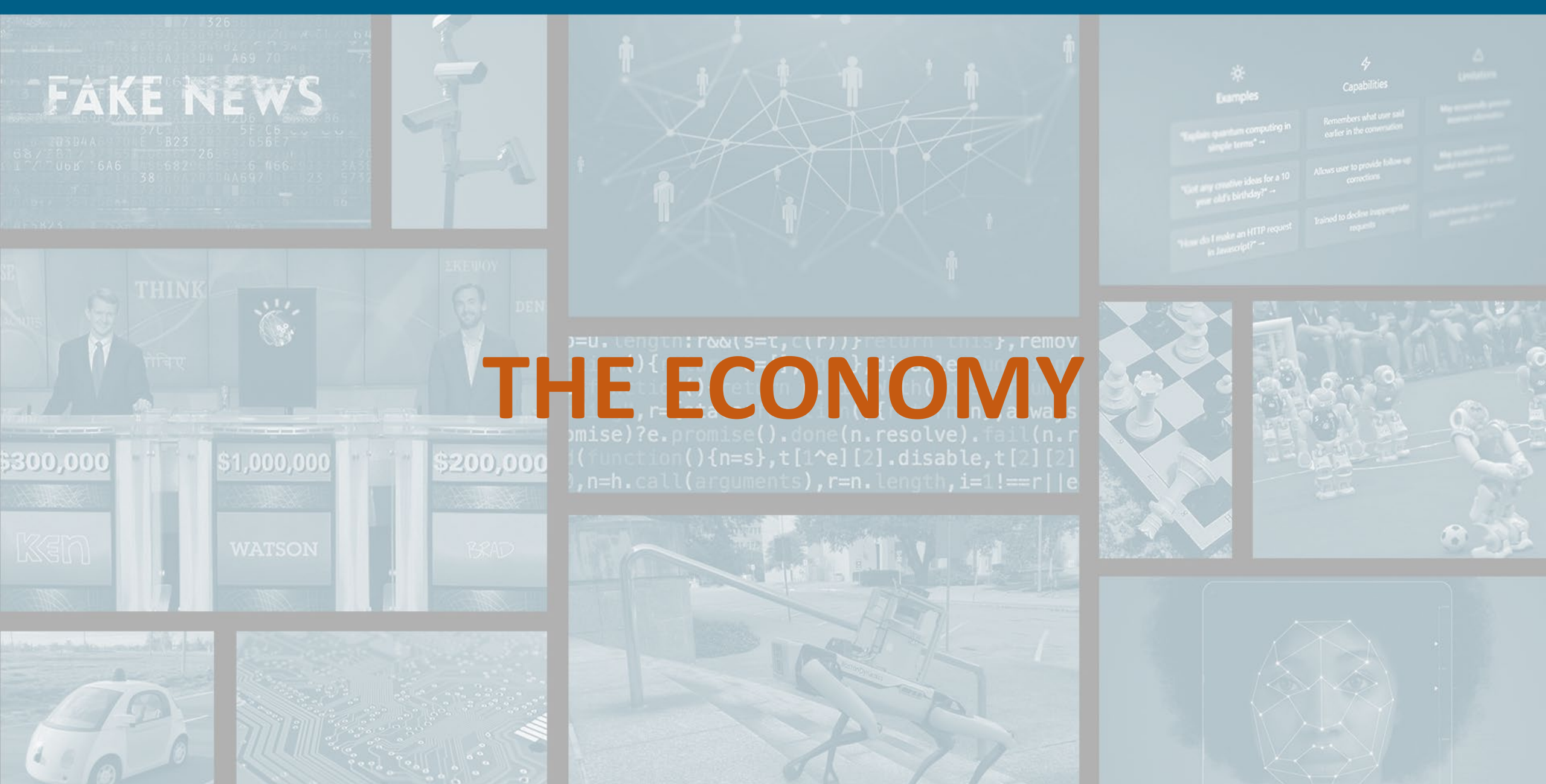
# Important Skills for College Students

- Appropriate AI knowledge & literacy for your field of study
- Critical Thinking Skills & Complex Problem Solving
- Creative Thinking Skills
- Advanced Analytical Skills
- Systems Thinking
- Continuous Learning & Life-Long Learning
- Self-Reliance
- Flexibility & Resilience & Agility
- Empathy
- Active Listening
- Social Skills
- Leadership

According to a 2023 Survey by Resume Builder:

- 96% of companies hiring in 2024 say candidates will benefit from having AI skills
- 83% say AI skills will help current employees retain their jobs

<https://www.resumebuilder.com/1-in-3-companies-will-replace-employees-with-ai-in-2024/>



# THE ECONOMY

# AI and the Economy

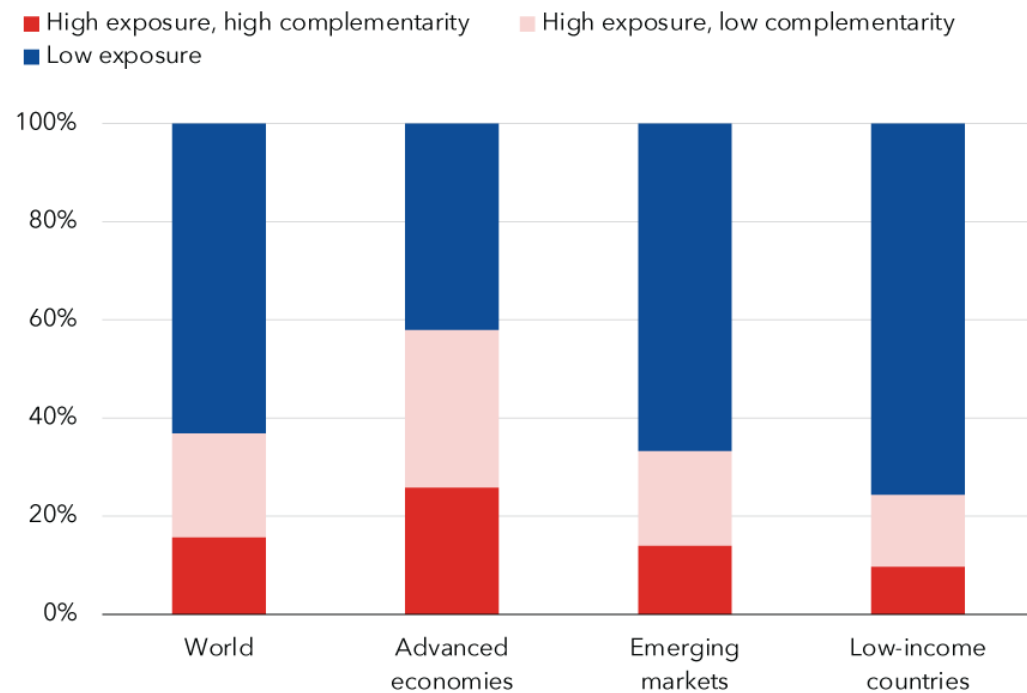
- **Some say AI will boost productivity and the economy**
- **Some say AI will cause job losses**
- **Will labor have a voice?**
- **Will GDP increase?**

# International Monetary Fund (IMF)

## AI's impact on jobs

Most jobs are exposed to AI in advanced economies, with smaller shares in emerging markets and low-income countries.

### Employment shares by AI exposure and complementarity



Source: International Labour Organization (ILO) and IMF staff calculations

Note: Share of employment within each country group is calculated as the working-age-population-weighted average.

IMF

# World Economic Forum

Artificial intelligence, a key driver of potential algorithmic displacement, is expected to be adopted by nearly 75% of surveyed companies and is expected to lead to high churn – with 50% of organizations expecting it to create job growth and 25% expecting it to create job losses.

<https://www.weforum.org/publications/the-future-of-jobs-report-2023/digest/>



# McKinsey

McKinsey research estimates that gen AI could add to the economy between \$2.6 trillion and \$4.4 trillion annually while increasing the impact of all artificial intelligence by 15 to 40 percent. In the technology, media, and telecommunications (TMT) space, new gen AI use cases are expected to unleash between \$380 billion and \$690 billion in impact—\$60 billion to \$100 billion in telecommunications, \$80 billion to \$130 billion in media, and about \$240 billion to \$460 billion in high tech.

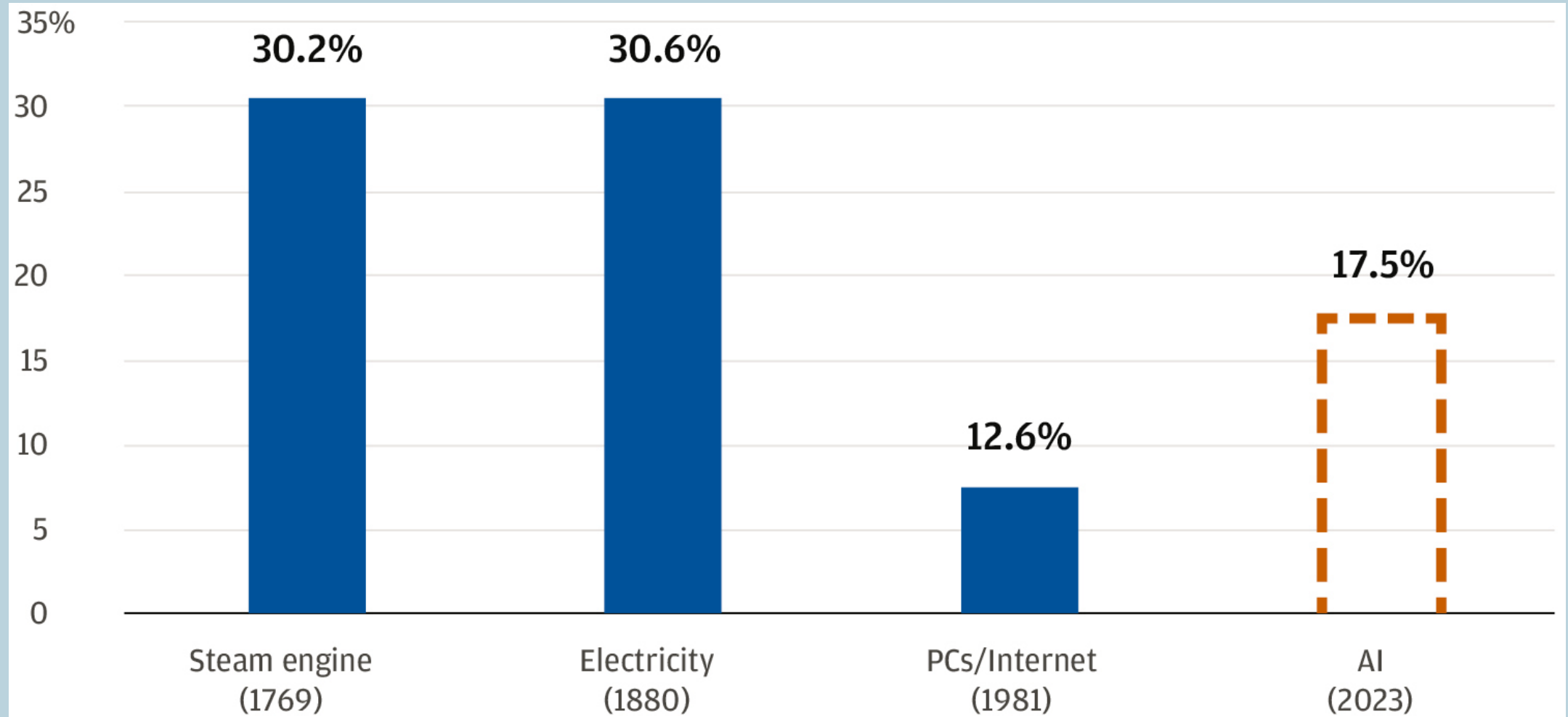
<https://www.mckinsey.com/industries/technology-media-and-telecommunications/our-insights/beyond-the-hype-capturing-the-potential-of-ai-and-gen-ai-in-tmt>

# J.P. Morgan

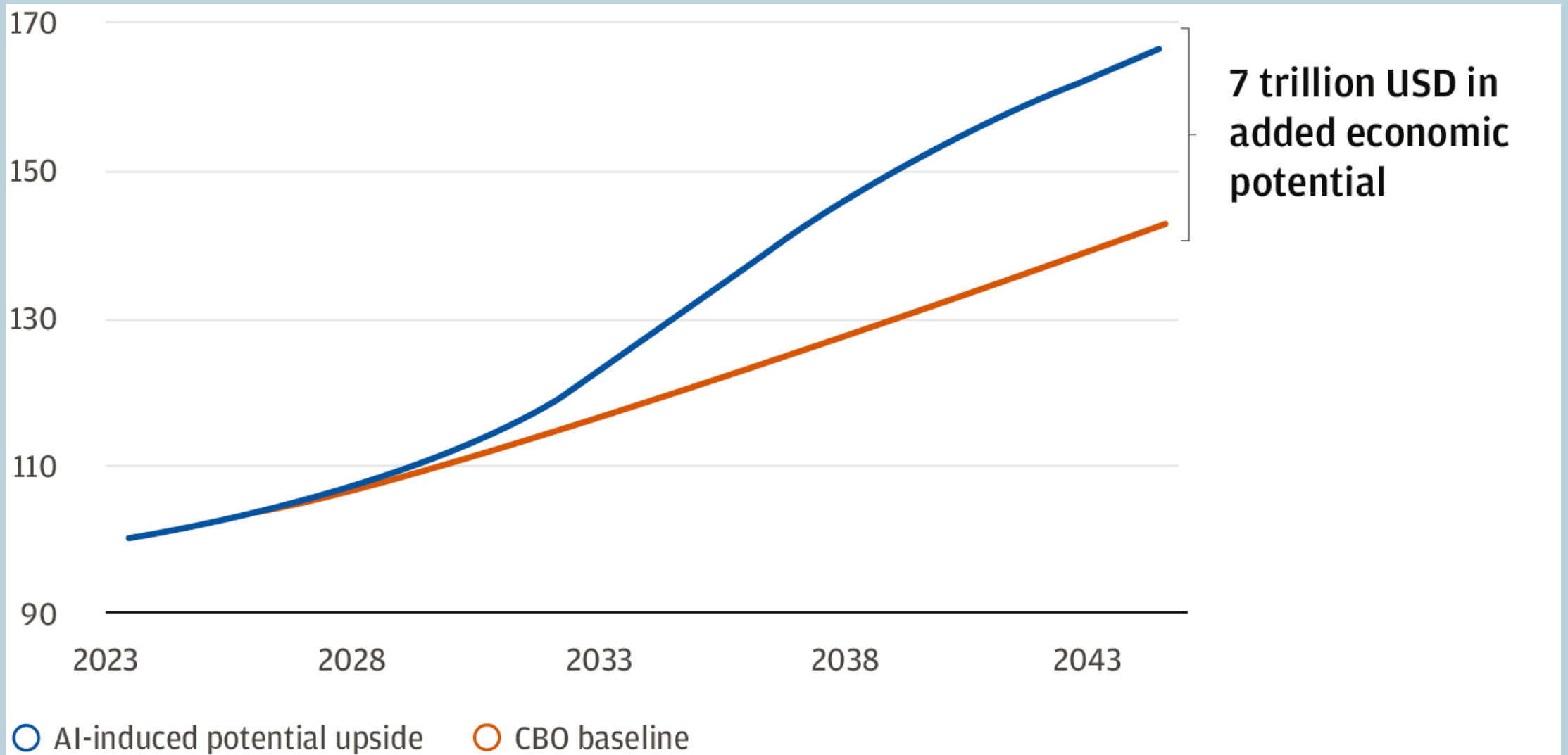
The internet delivered a powerful productivity boost, but AI will likely surpass it.

## J.P.Morgan

% labor productivity upside relative to no technology breakthrough baseline



J.P. Morgan  
U.S. labor productivity, indexed at 100 for 2023



# J.P.Morgan

## Cumulative %pt upside to real GDP baseline by 2034

