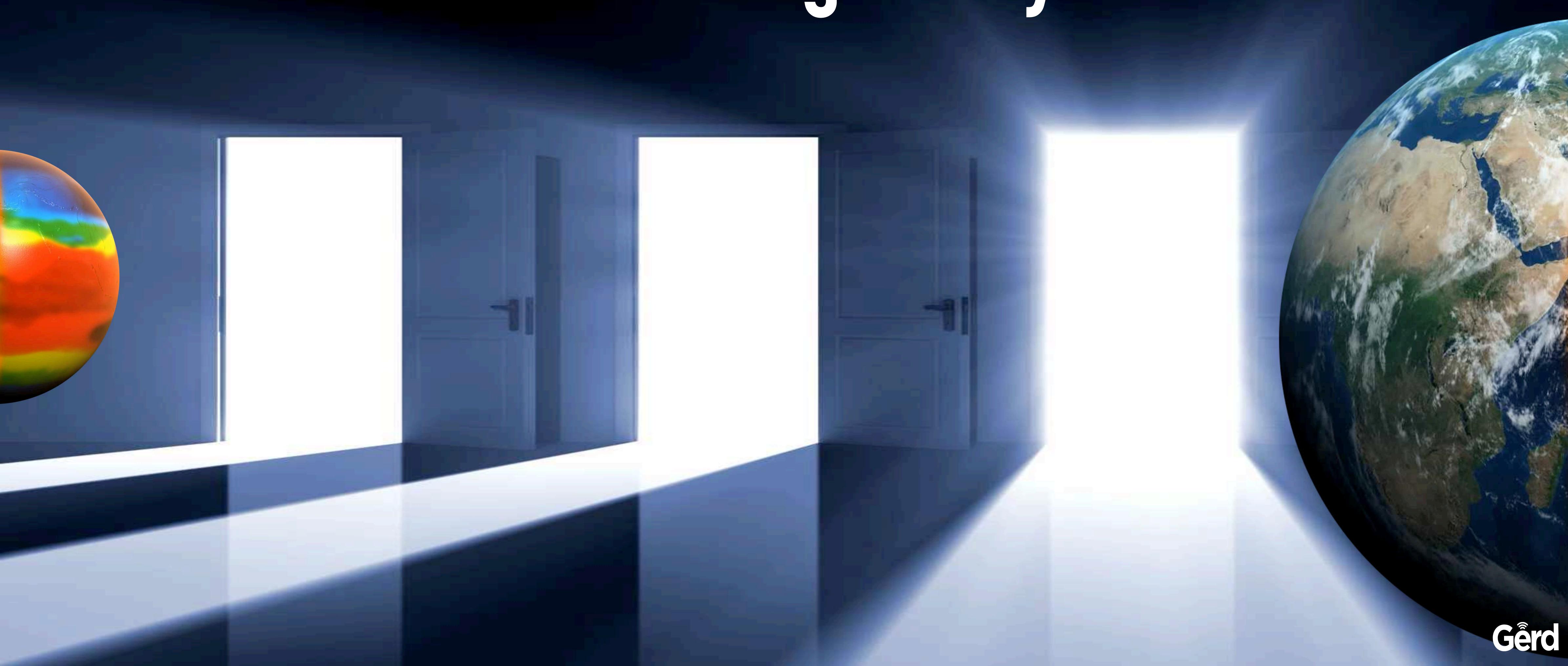
## THE NEXT 10 YEARS: TOTAL TRANSFORMATION...

...and what it all means for Supply Chains, Logistics and Transportation



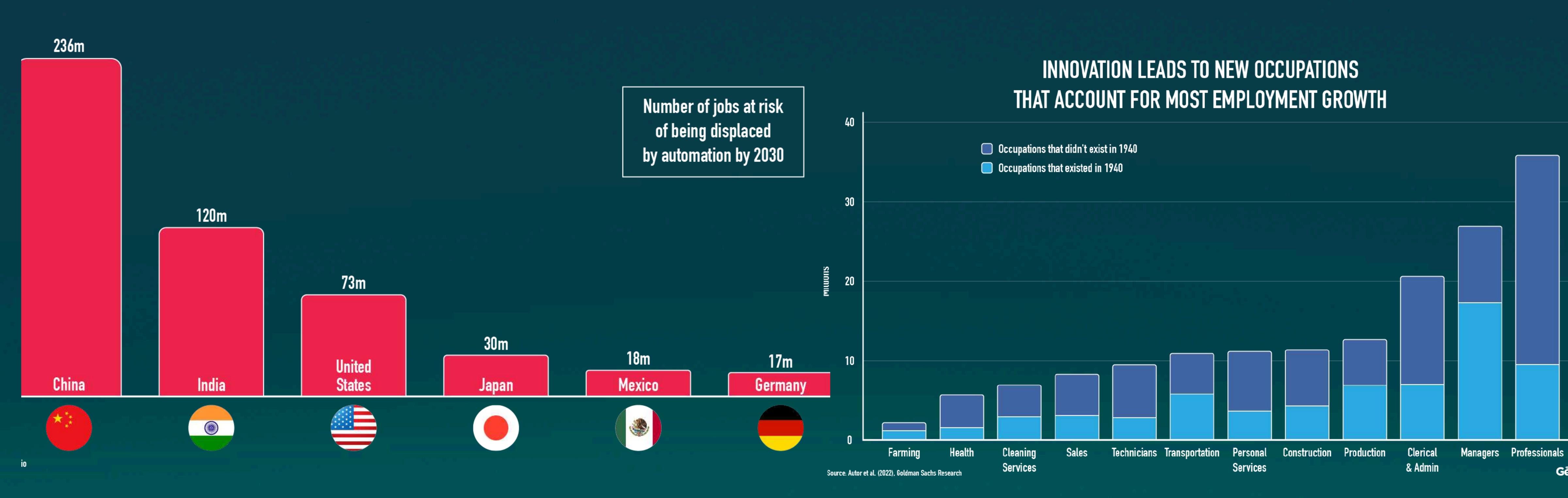
# The doors aren't closing - they are OPENING



# The doors aren't closing - they are OPENING

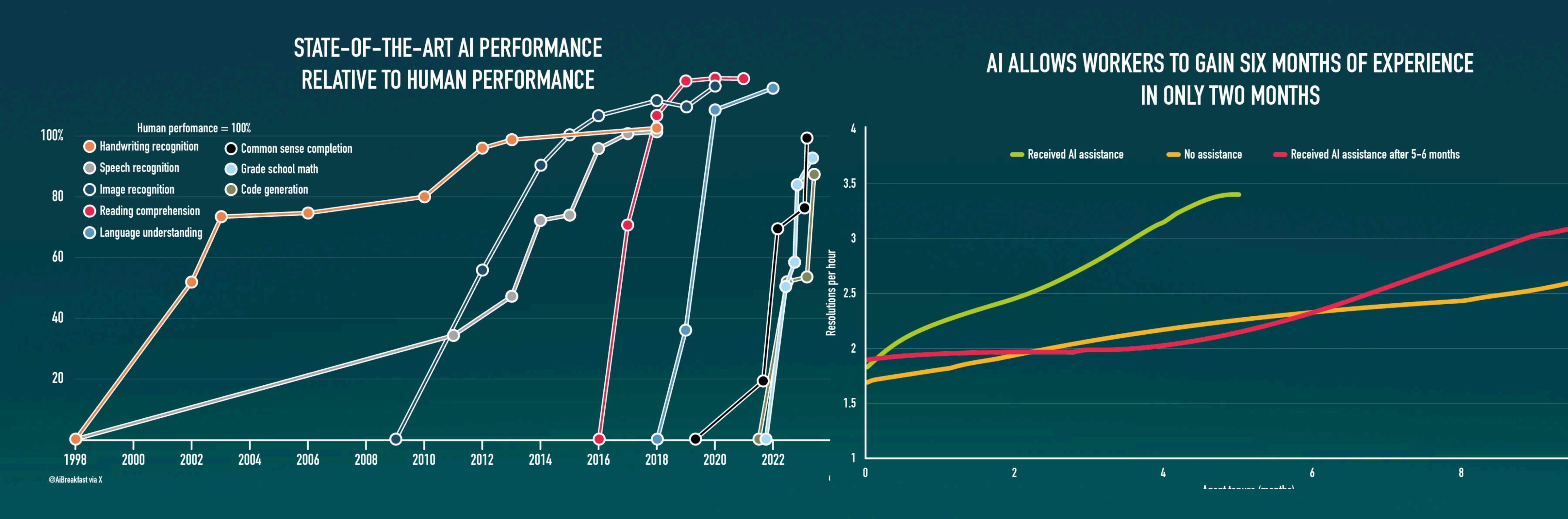


# "We should be optimistic not because our problems are smaller than we thought, but because our capacity to solve them is larger than we thought" Kevin Kelly





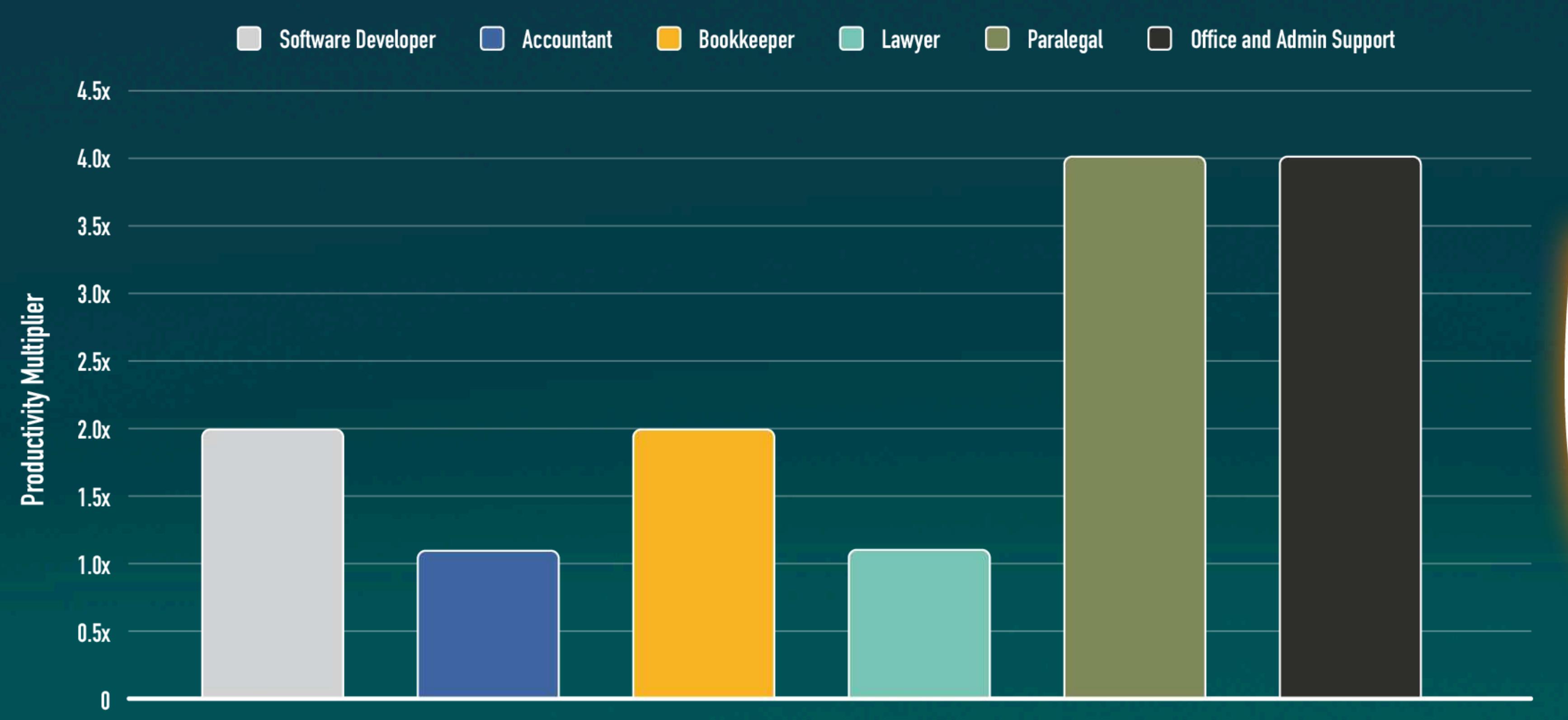
# "We should be optimistic not because our problems are smaller than we thought, but because our capacity to solve them is larger than we thought" Kevin Kelly





## Our capacity to work better – and differently – is increasing EXPONENTIALLY \*

OUTPUT OF AI-ASSISTED KNOWLEDGE WORKERS 2021 TO 2030 BY 2030 AI WILL INCREASE THE OUTPUT OF KNOWLEDGE WORKERS BY 140%

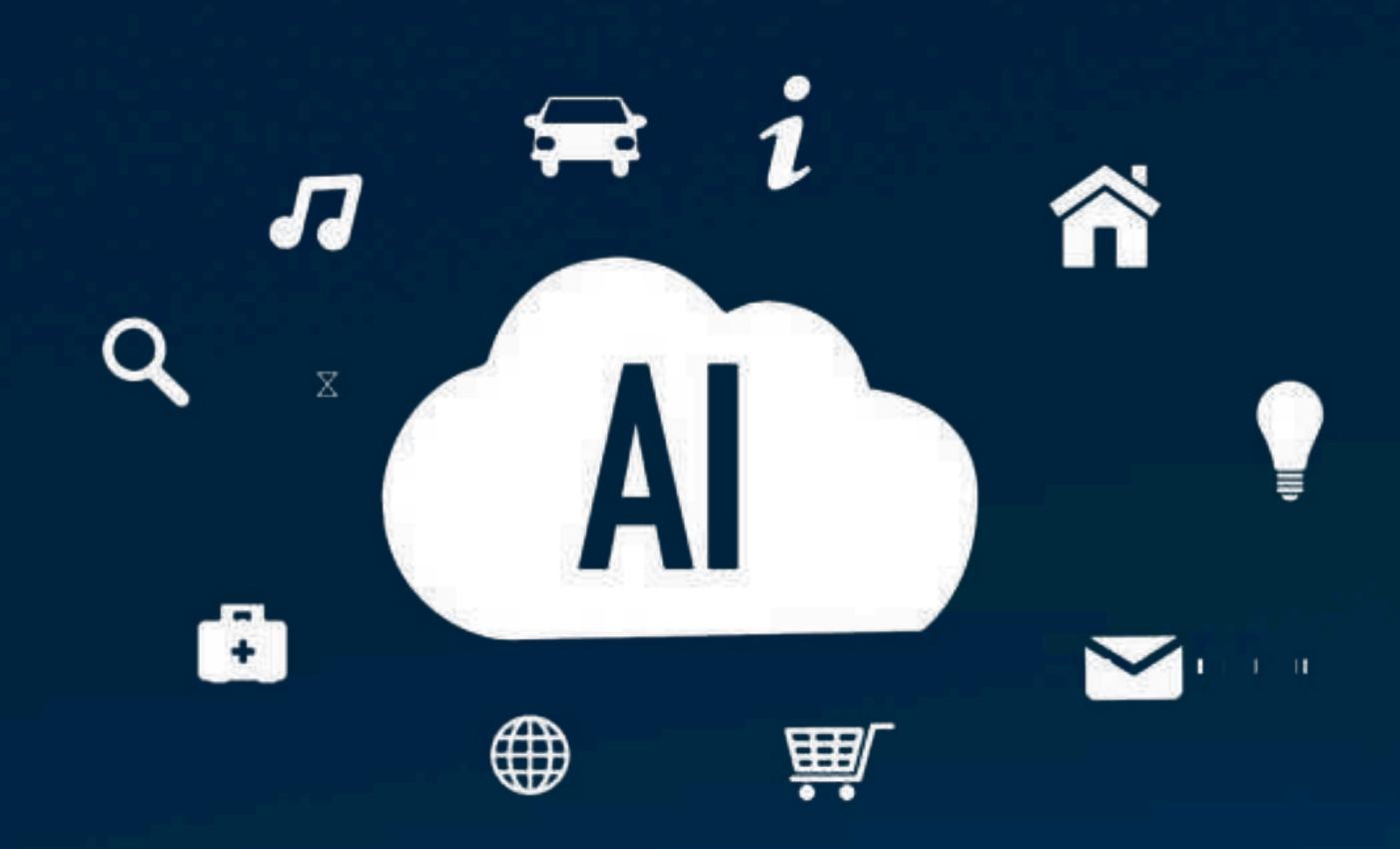




DIGITAL REVOLUTION

SUSTAINABILITY REVOLUTION

PURPOSE REVOLUTION





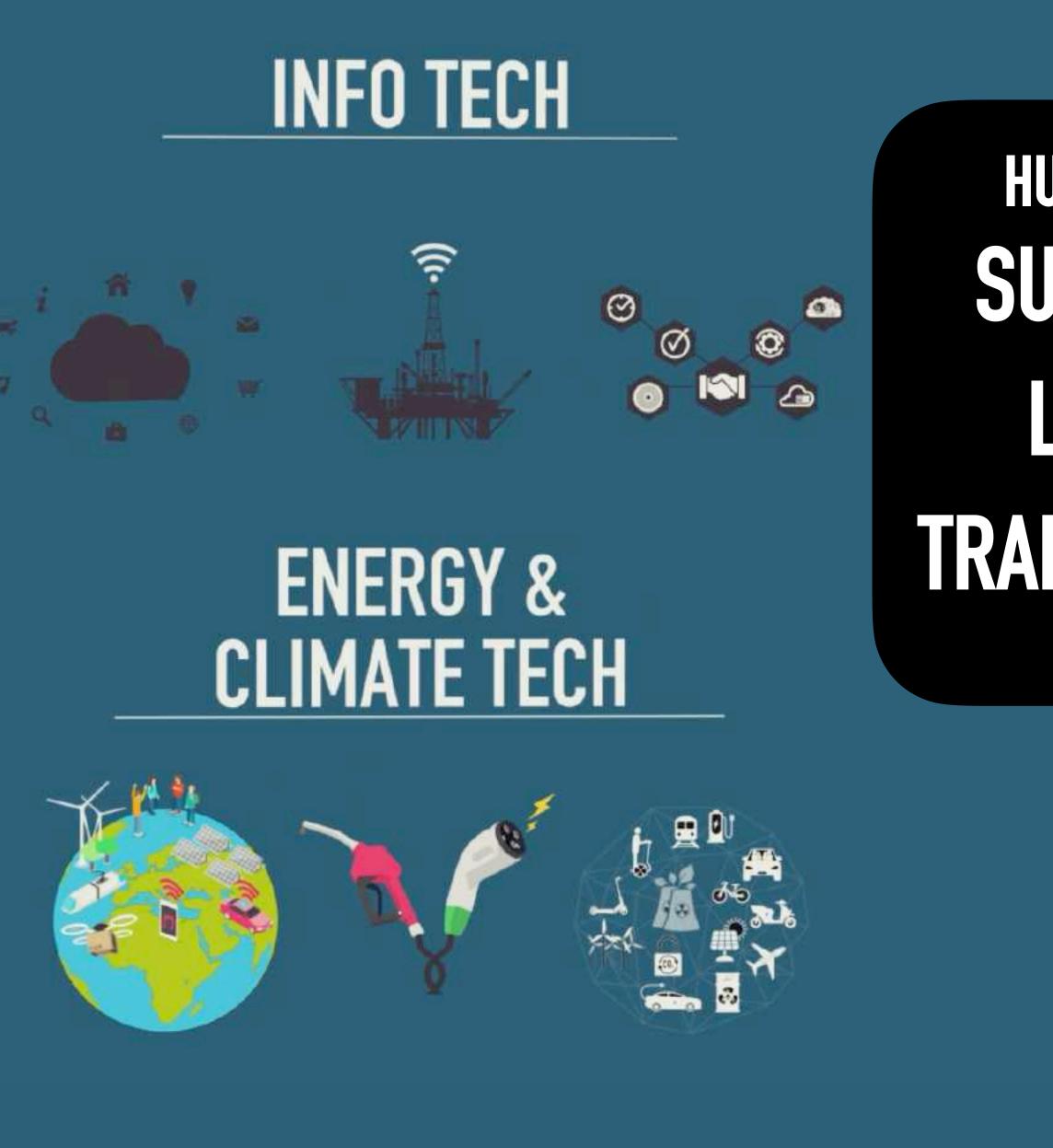


Big Blue

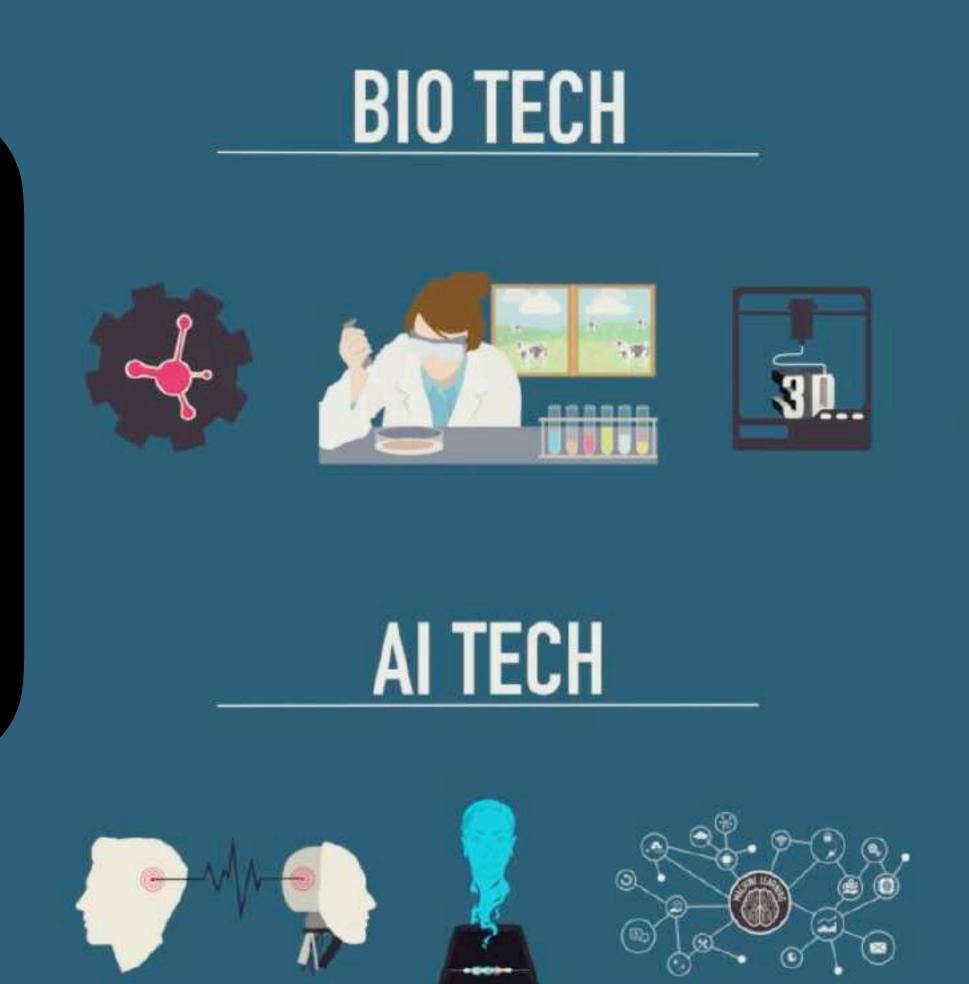
Big Green

Big Purple

## The next 10 years will bring more change than the previous 100 years



HUGE IMPACT ON:
SUPPLYCHAIN
LOGISTICS
TRANSPORTATION

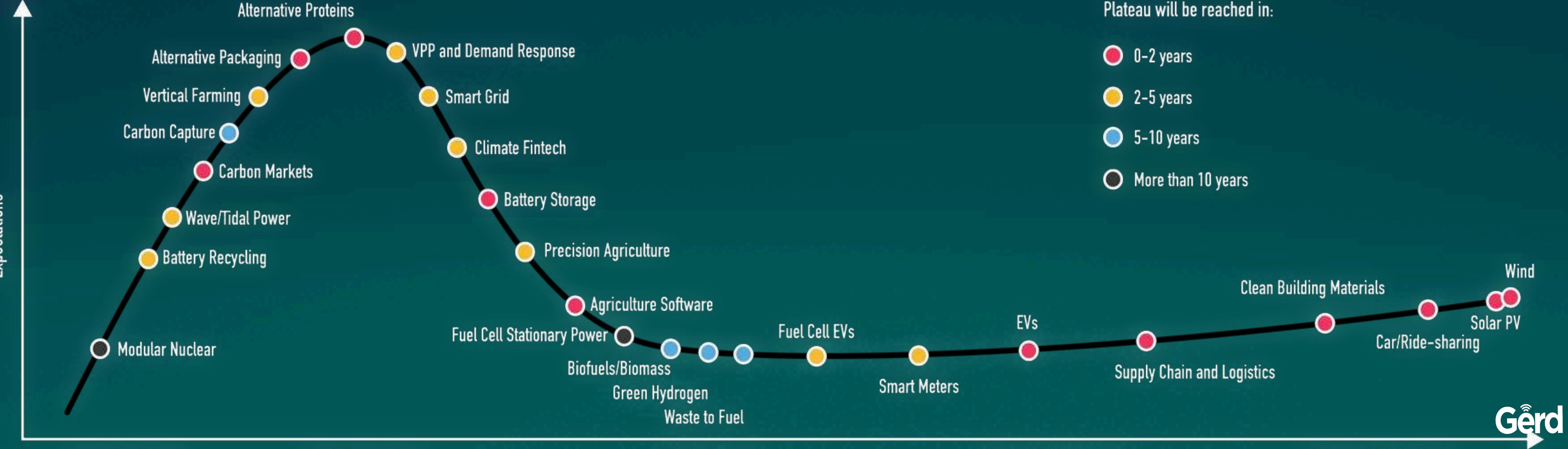




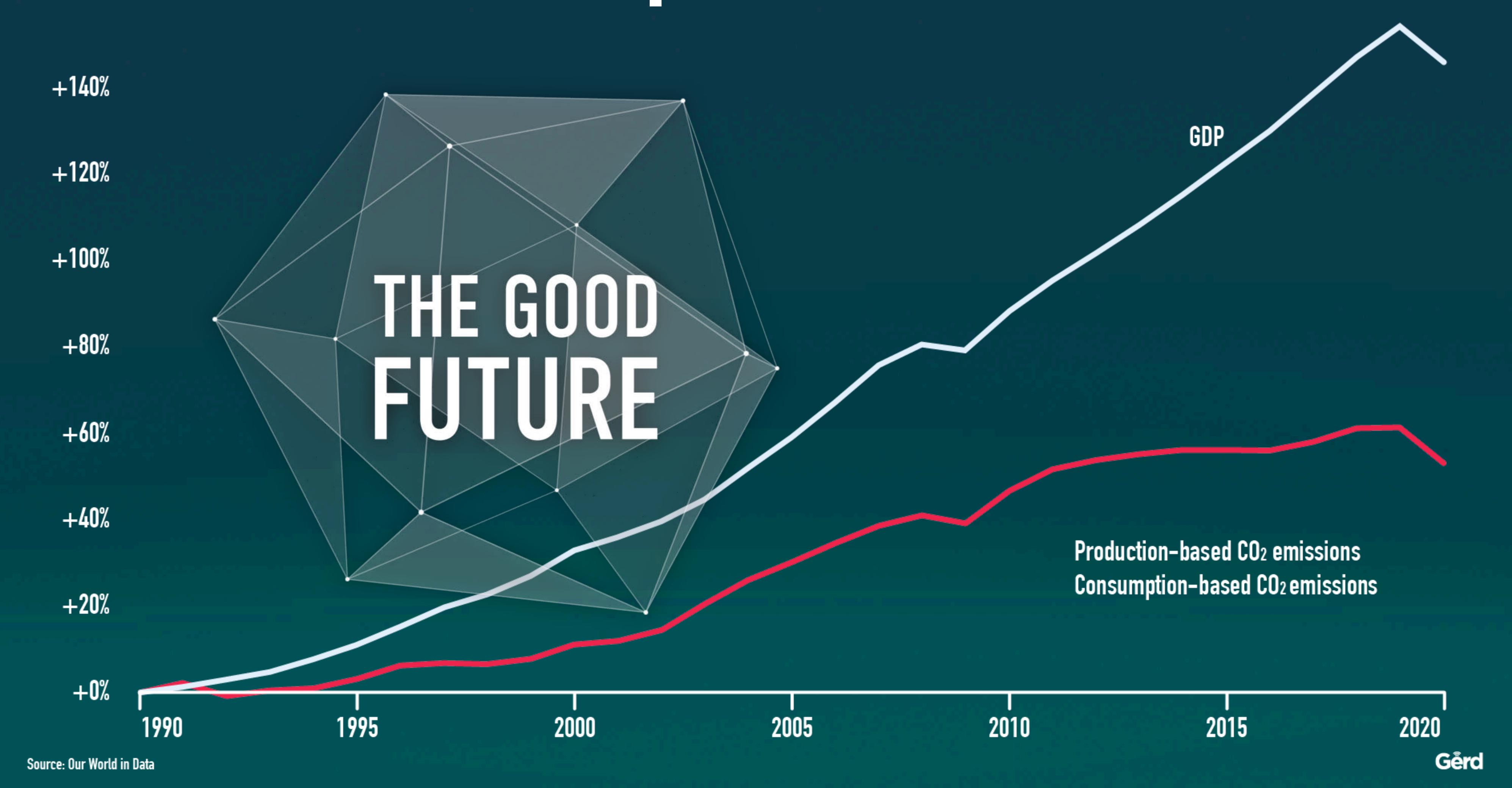


## HAPOSSIBLE: NEW NORMAL

#### SELECT CLIMATE TECH INNOVATION HYPE CURVE



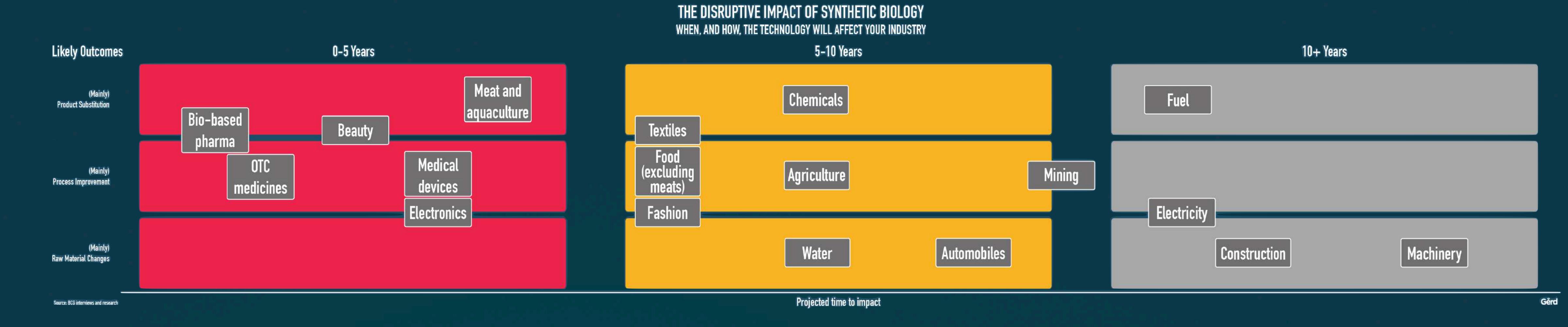
## YES WE CAN: Decouple Growth from Emissions!



Gêrd

# Al is just the first of SIX GAME-CHANGING BREAKTHROUGHS: Next is Quantum Computing, Nuclear Fusion, Nano-Tech & Synthetic Biology, Genome Editing and Geo-Engineering





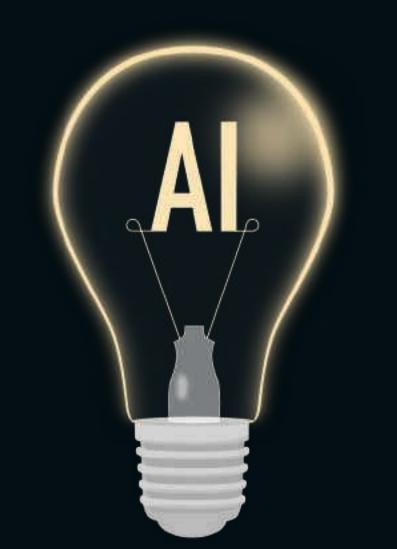
SYNTHETIC BIOLOGY (SynBio) applies engineering principles to develop new biological parts, devices, and systems or to redesign existing systems found in nature.











# "It is the FRAMEWORK which changes with each new technology and not just the picture within the frame"

Marshall Mc Luhan

STAMFORD, Conn., Feburary 19, 2024

Gartner Predicts
Search Engine
Volume Will Drop
25% by 2026, Due to
Al Chatbots and
Other Virtual Agents

WIRED

LAUREN GOODE

BUSINESS FEB 8, 2024 8:00 A

# Google Prepares for a Future Where Search Isn't King

CEO Sundar Pichai tells WIRED that Google's new, more powerful Gemini chatbot is an experiment in offering users a way to get things done without a search engine. It's also a direct shot at ChatGPT.

STEVEN LEVY BUSINESS FEB 16, 2024 9:00

This Company Says Conversational Al Will Kill Apps and Websites

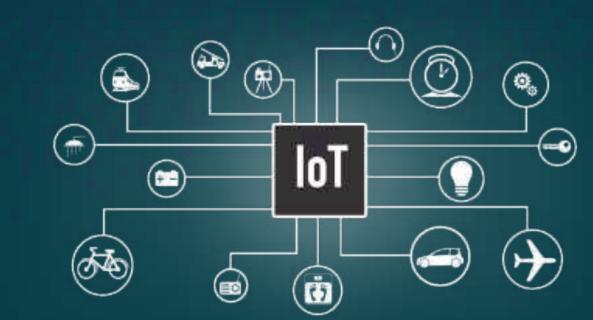
Sierra hopes every company will use its empathetic AI chatbots for customer interactions.

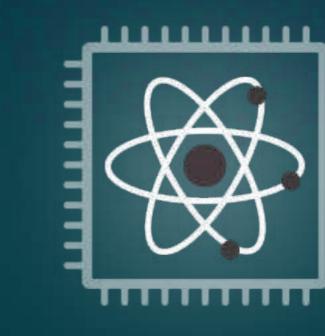


Sierra cofounders Bret Taylor (left) and Clay Bavor. COURTESY OF CARLOS CHAVARRIA/SIE

Framework Changes: Apple Spatial Computing SNU 92 Too much of a good thing can be a very bad thing DATA\_TRANSFER\_01 Gêrd











#### DATA EVERYTHING







SMART EVERYTHING

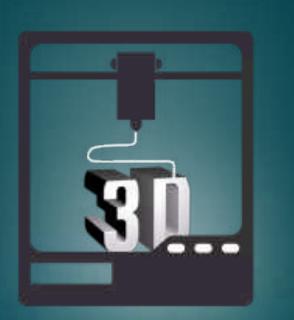
TRANSACT ANYTHING

SEE EVERYTHING

MAKE ANYTHING

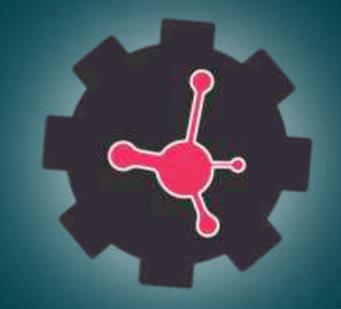


























## Al: "Computer systems that turn information and data into KNOWLEDGE"

(DEMIS HASSABIS, CEO, DEEPMIND)



## Al: "Computer systems that turn information and data into KNOWLEDGE"

(DEMIS HASSABIS, CEO, DEEPMIND)





## THE TECH INDUSTRY MOVES IN PLATFORM SHIFTS

EVERY 10-15 YEARS, A NEW PLATFORM RESETS THE TECH INDUSTRY

Generative Al: Computer systems that turn data & statistics, image recognition, language understanding and (BINARY) KNOWLEDGE INTO CONTENT & CONVERSATION

Mainframes

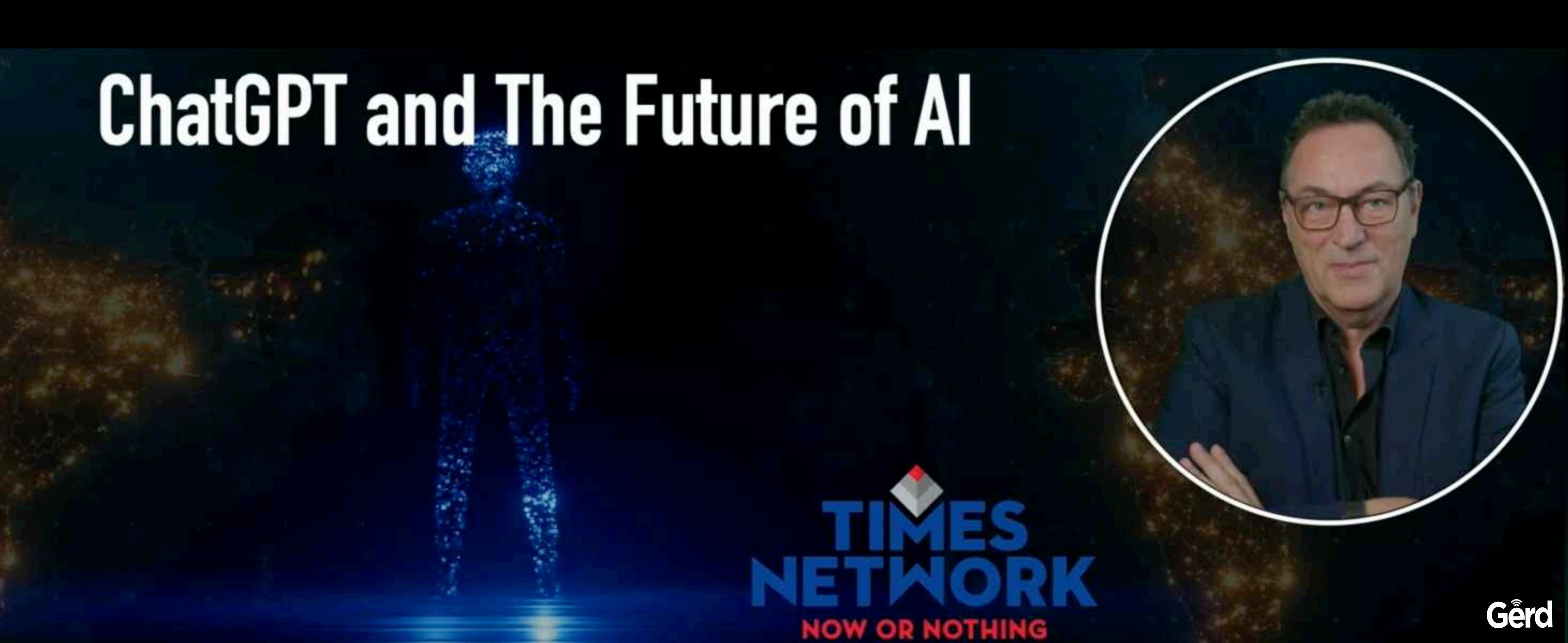
PCs

Web Open Source

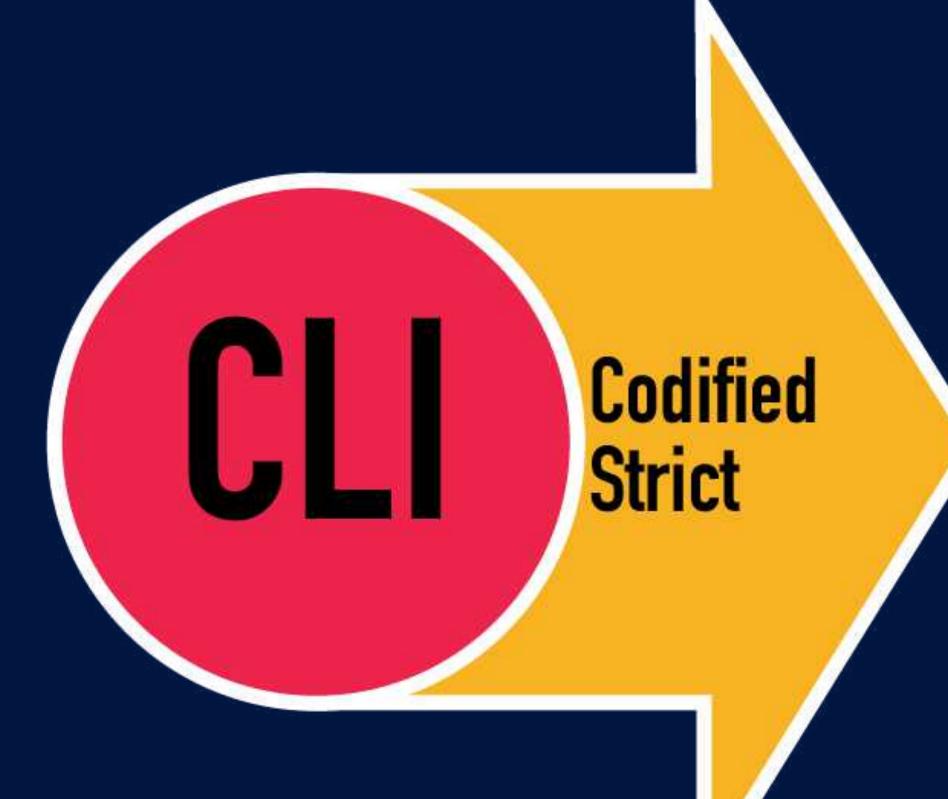
Smartphones Cloud

Generative Al Gêrd





#### AI IS A GENERAL PURPOSE TECHNOLOGY (GPT)



Metaphor

Direct Intuitive



Artificial Intelligence (Today)

Internet

(1983)



Semi-Conductors (1947)





Steam Engine (1698)

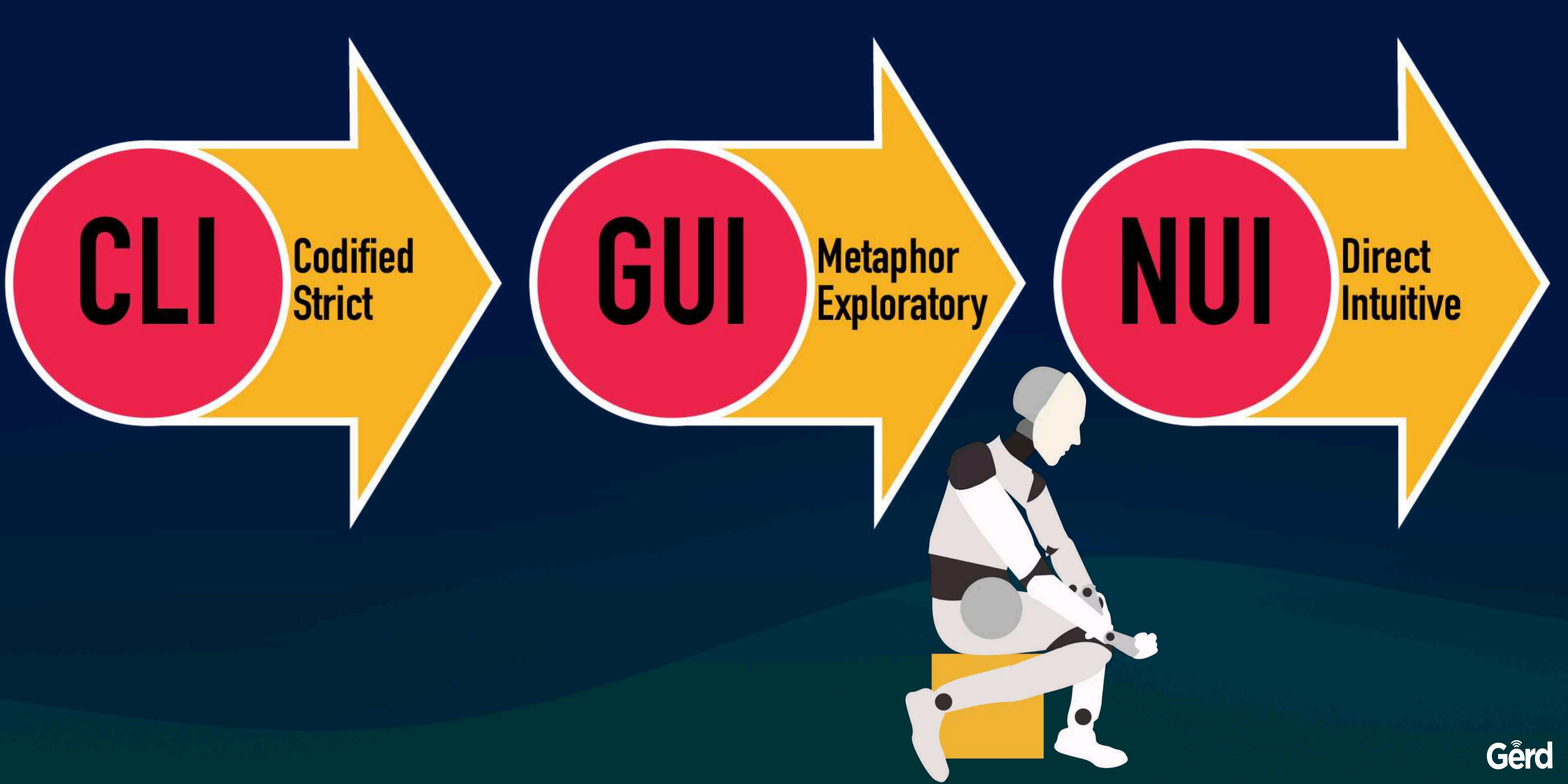


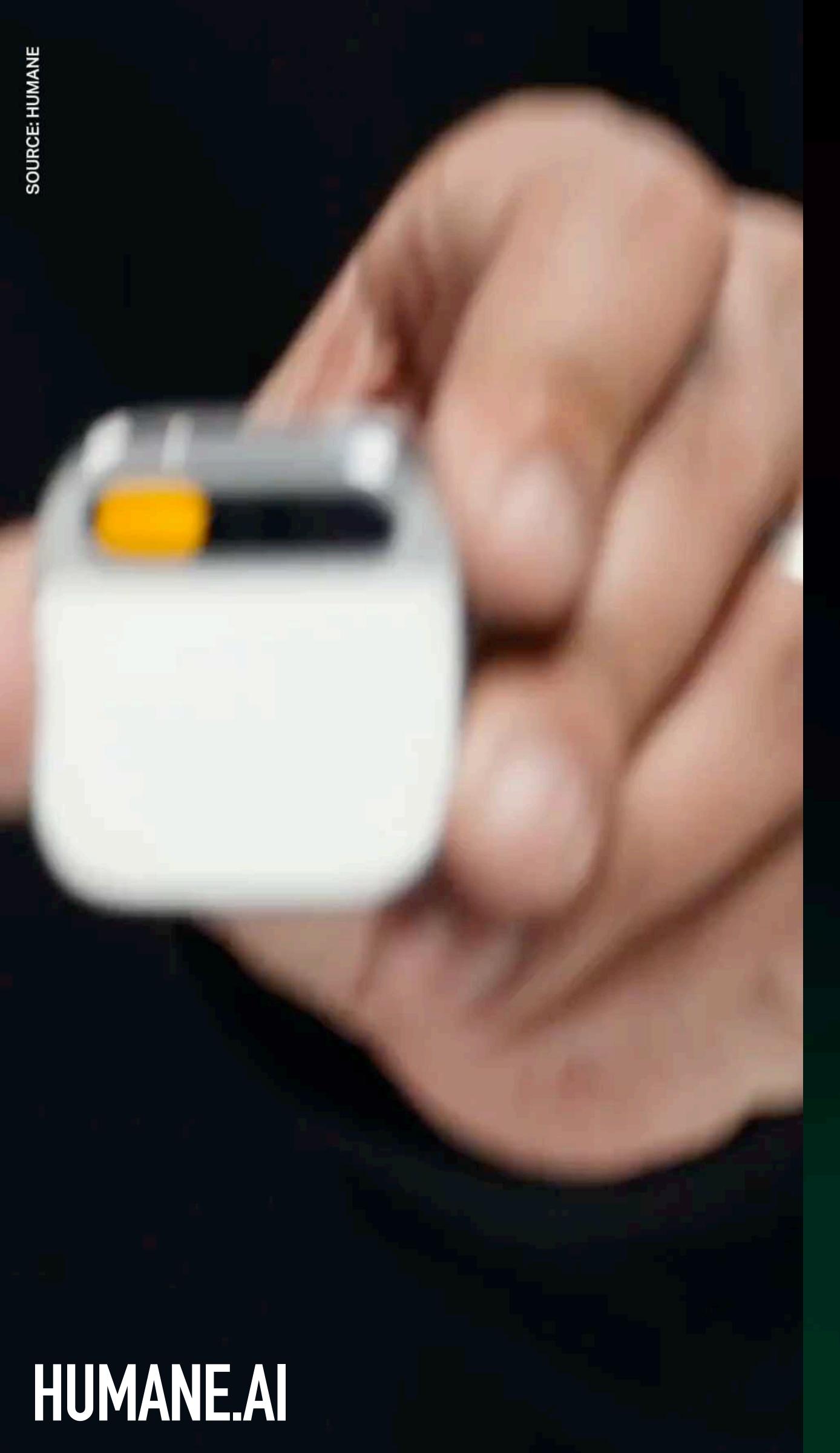
Electricity (1879)



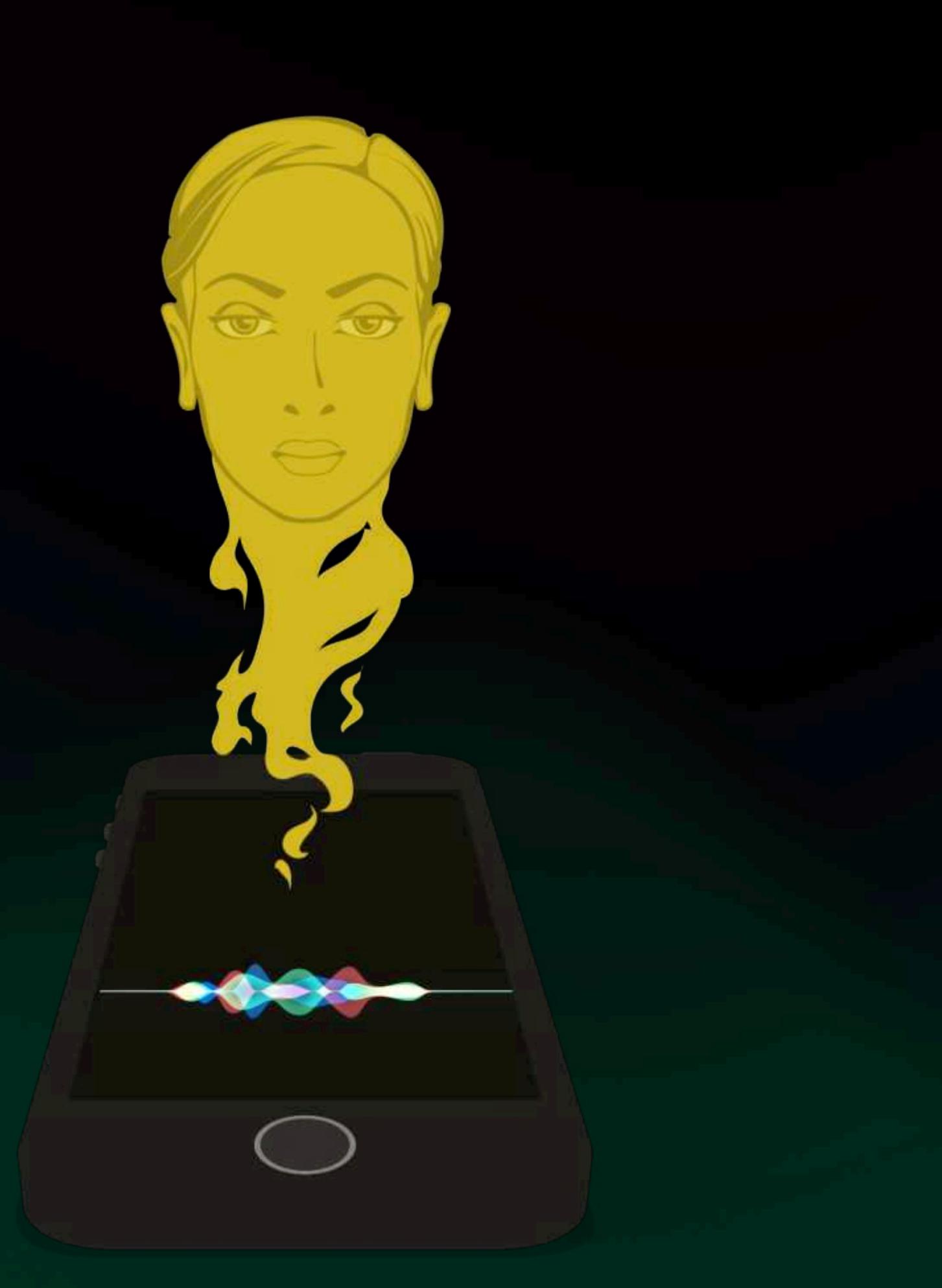
Computer (1946)







### FROM GRAPHIC INTERFACES TO CONVERSATIONAL AI





#### WHAT ARE THE PRIMARY BUSINESS OBJECTIVES FOR USING AI



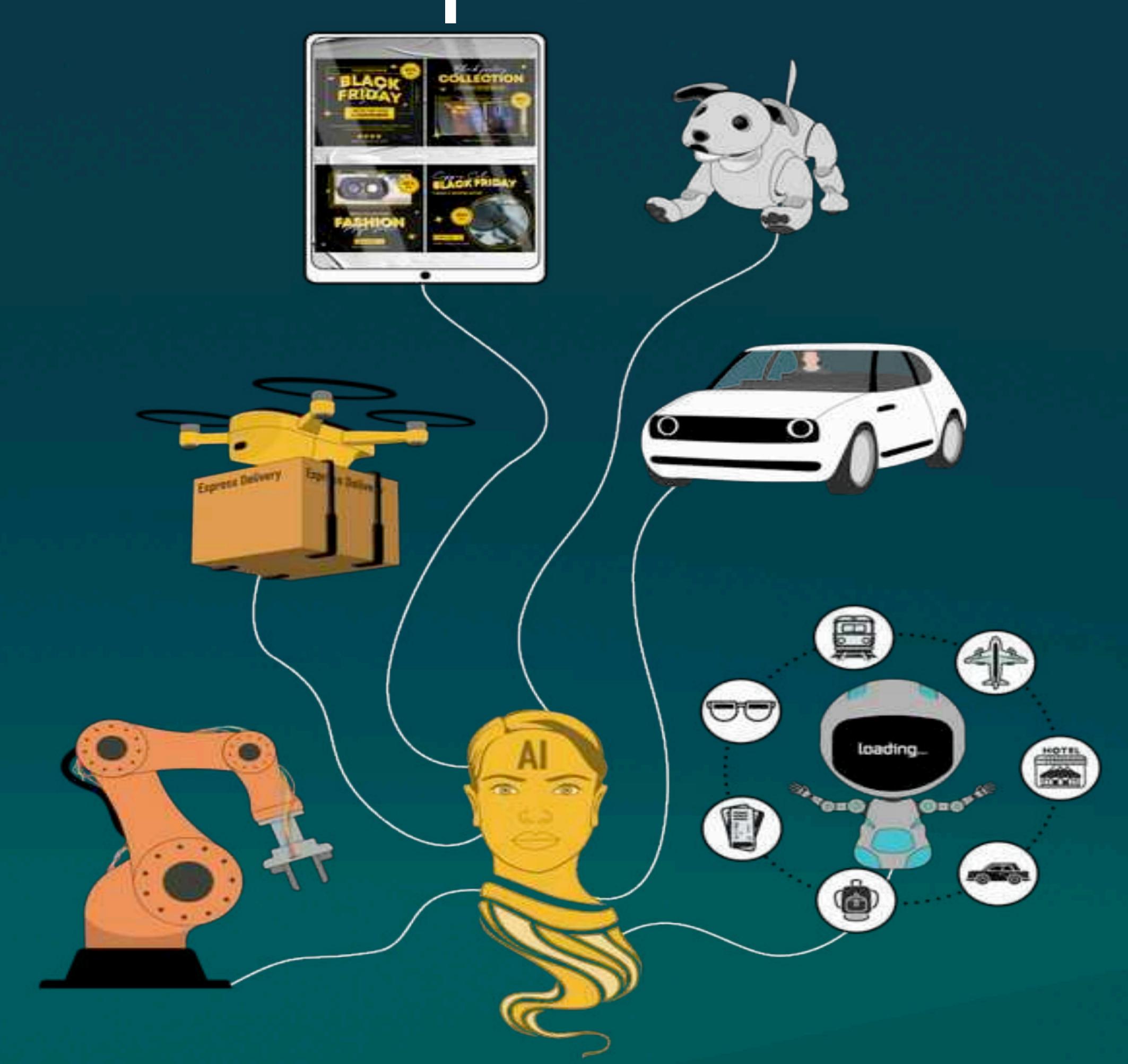














#### According to Accenture research:

43%

of all working hours across end-to-end supply chain activities could be impacted by generative AI. 29%

of working hours across supply chains could be automated by generative AI.

14%

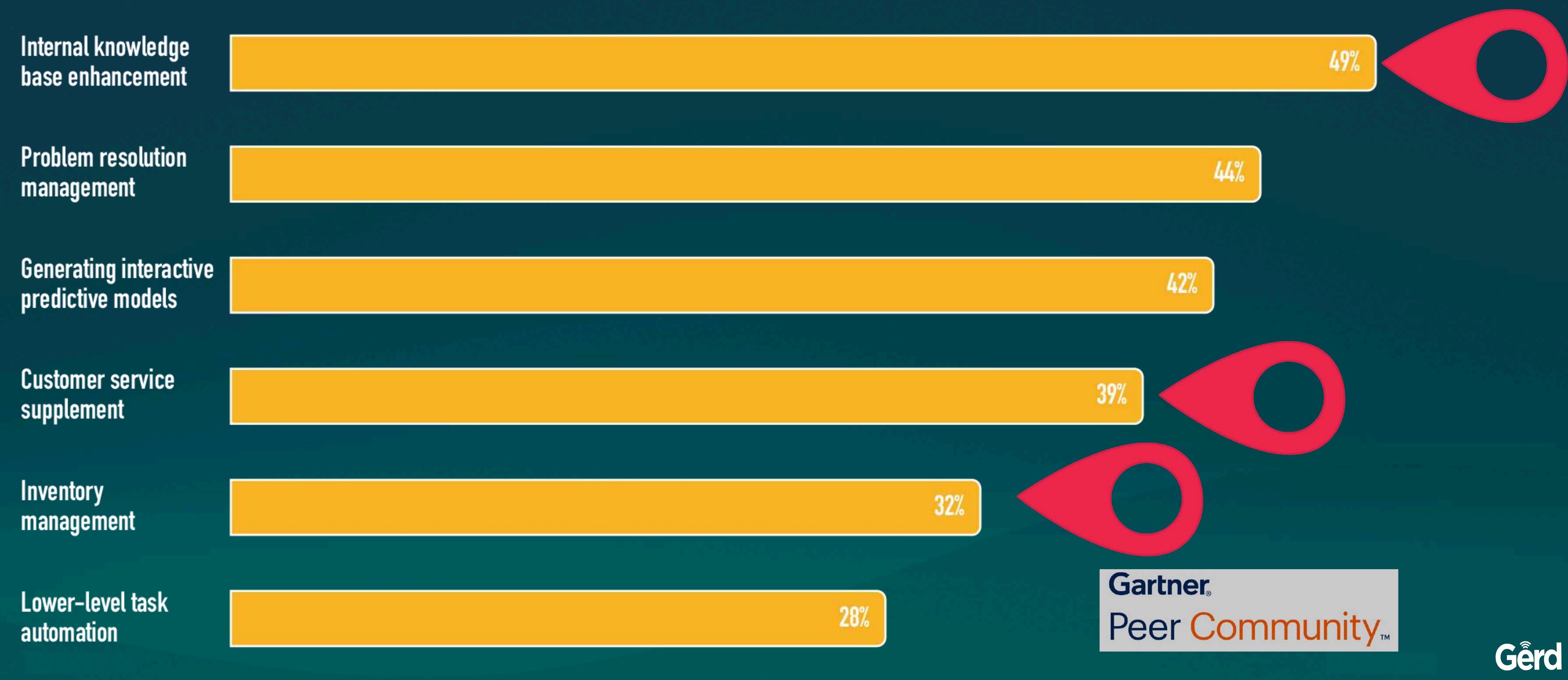
of working hours across supply chains could be significantly augmented by generative AI.

AI TECH

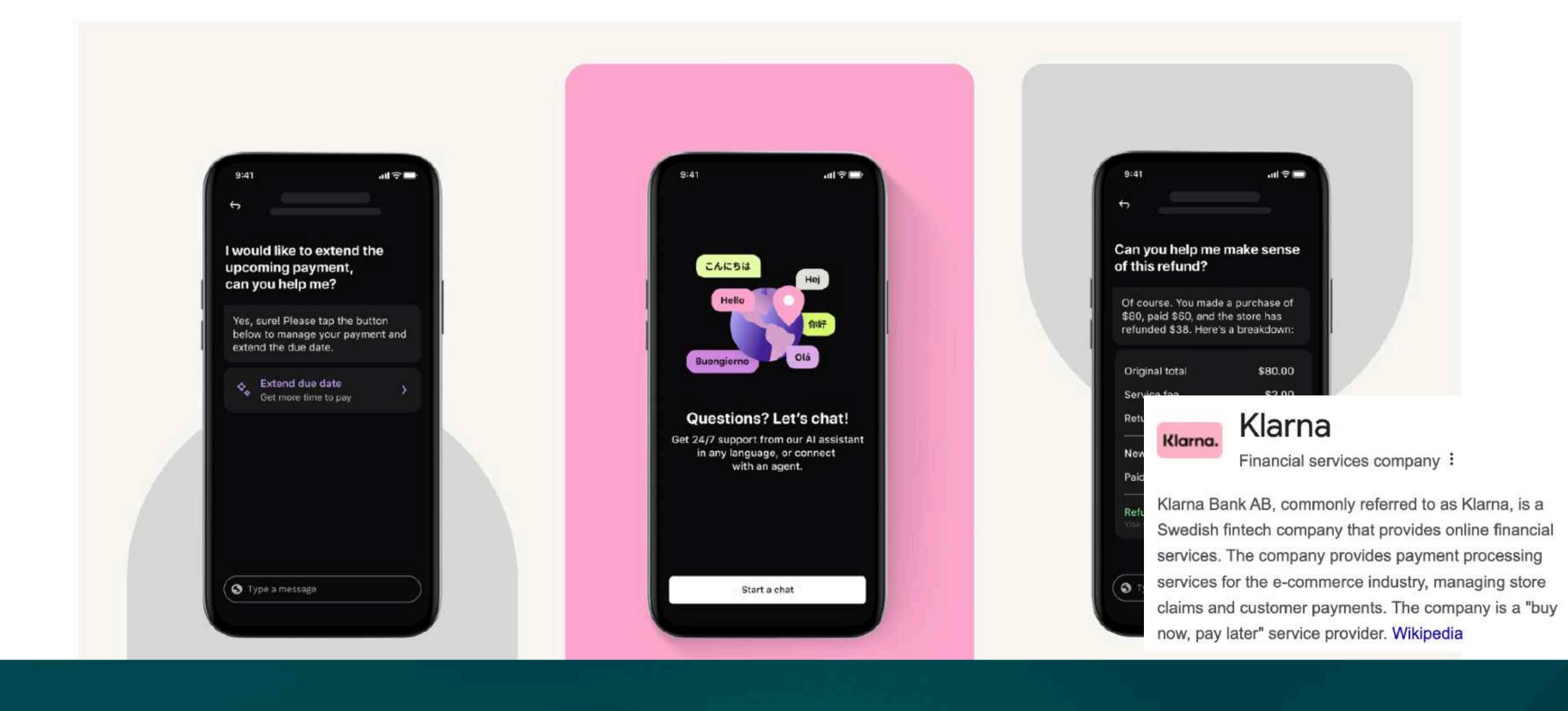


The combination of generative AI and human ingenuity is the key that unlocks next-level supply chain network sustainability

## HOW ARE YOU USING, OR HOW DO YOU PLAN TO USE, GENERATIVE AI AS A PART OF YOUR SUPPLY CHAIN TRANSFORMATION STRATEGY?



# Klarna Al assistant handles two-thirds of customer service chats in its first month



- The AI assistant has had 2.3 million conversations, 2/3 of Klarna's customer service chats
- IT IS DOING THE EQUIVALENT WORK OF 700 FULL-TIME AGENTS
- It is on par with human agents in regard to customer satisfaction score
- Customers now resolve their errands in less than 2 mins compared to 11 mins previously
- It's estimated to drive a \$40 million USD in profit improvement to Klarna in 2024

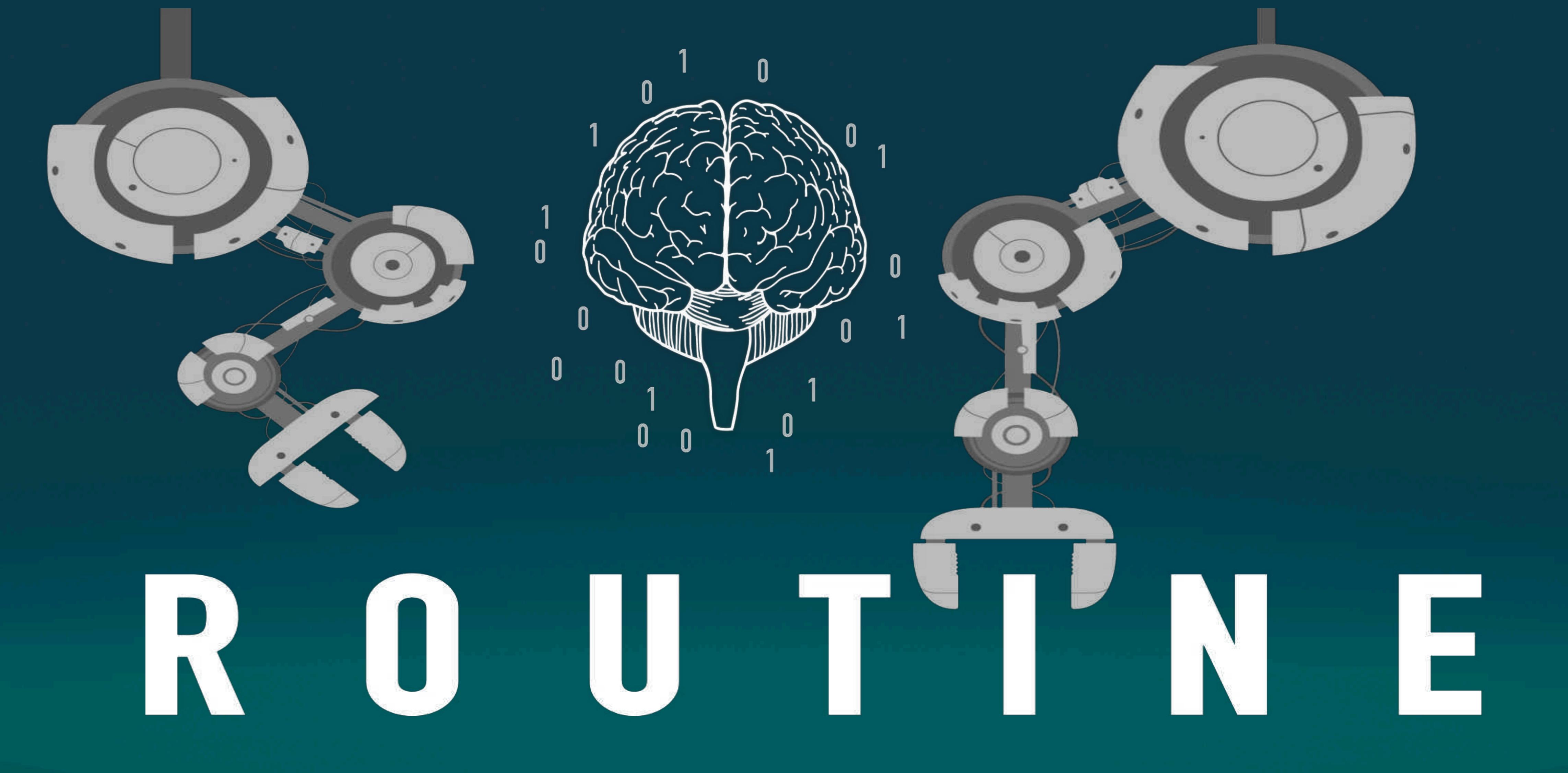
#### **Smart sectors**

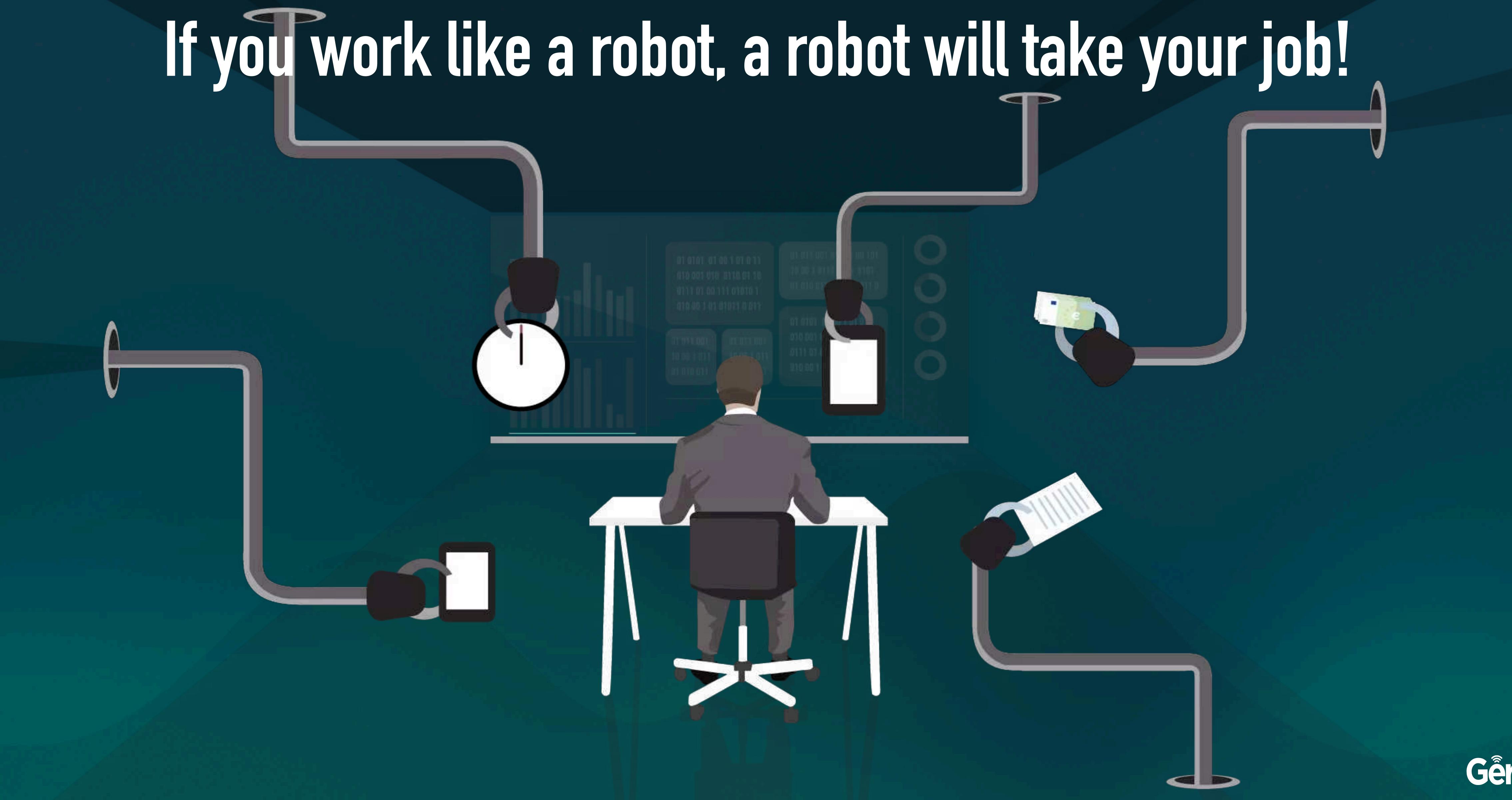
United States, companies using AI to produce goods and services, %

#### Have done in the past two weeks, by sector











Machines DON'T 'Think' or 'Feel' Machines DON'T have hunches Machines DON'T 'understand' Machines DON'T imagine Machines DON'T care

#### THE FUTURE OF WORK PYRAMID

HUMAN-ONLY
TRAITS & SKILLS
(HUMAN AGENCY)

PURPOSE

WISDOM

UNDERSTANDING

TACIT KNOWLEDGE

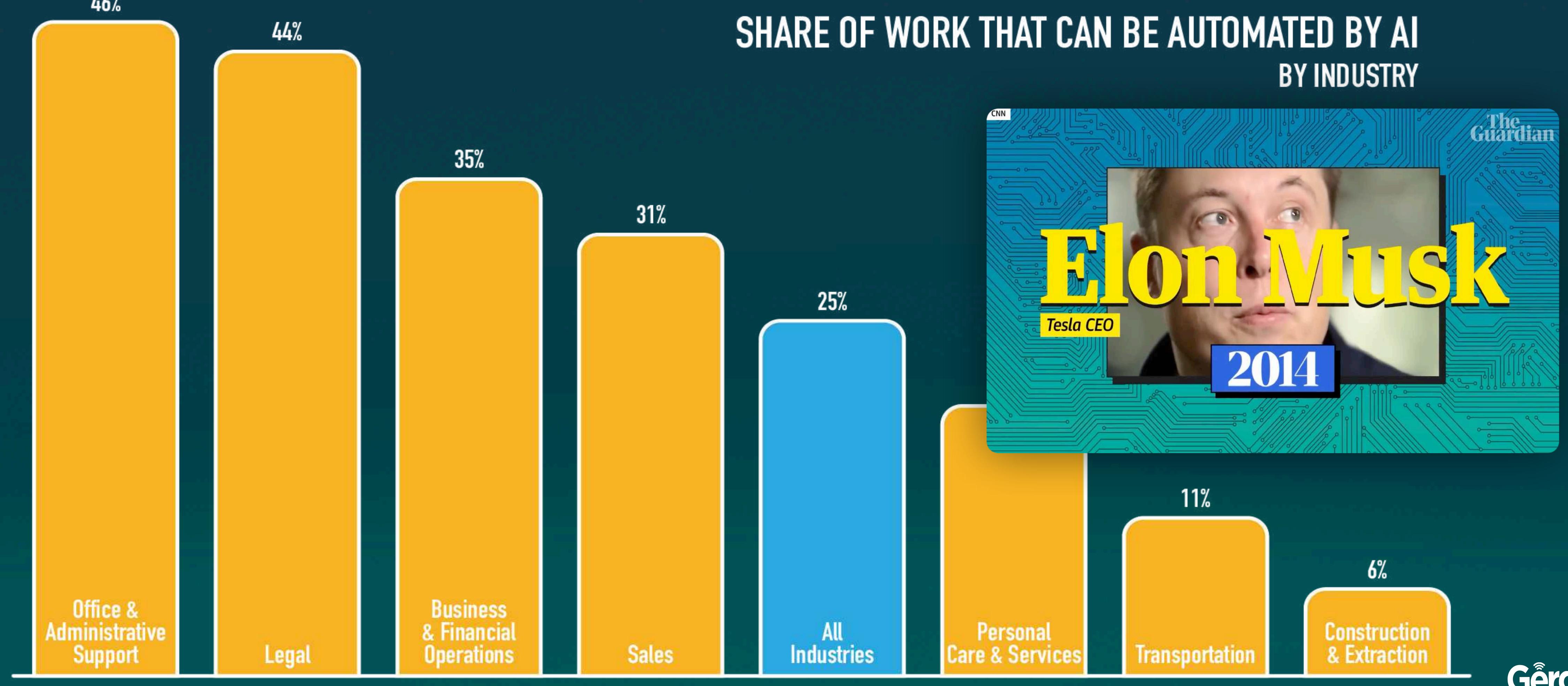
DEEPER KNOWLEDGE

DATA AND INFORMATION

"Machine Turf"

Gêrc

## Never mistake a clear view for a short distance \*Paul Saffo







#### OMNIVISION CHAIN 2031

"An immersive omnichannel platform called OmniVision where controllers navigate a virtual landscape that mirrors the real-time dynamics of the global supply chain.

Management controllers, equipped with advanced VR gear, stand amid a digital twin of the supply chain world. They observe a holographic globe where supply routes, manufacturing hubs, distribution centers pulse with life.

Through intuitive gestures, they zoom into specific areas, inspecting operations with incredible detail. They can visualize every-thing from cargo ships navigating oceans to robotic arms assembling products in factories.

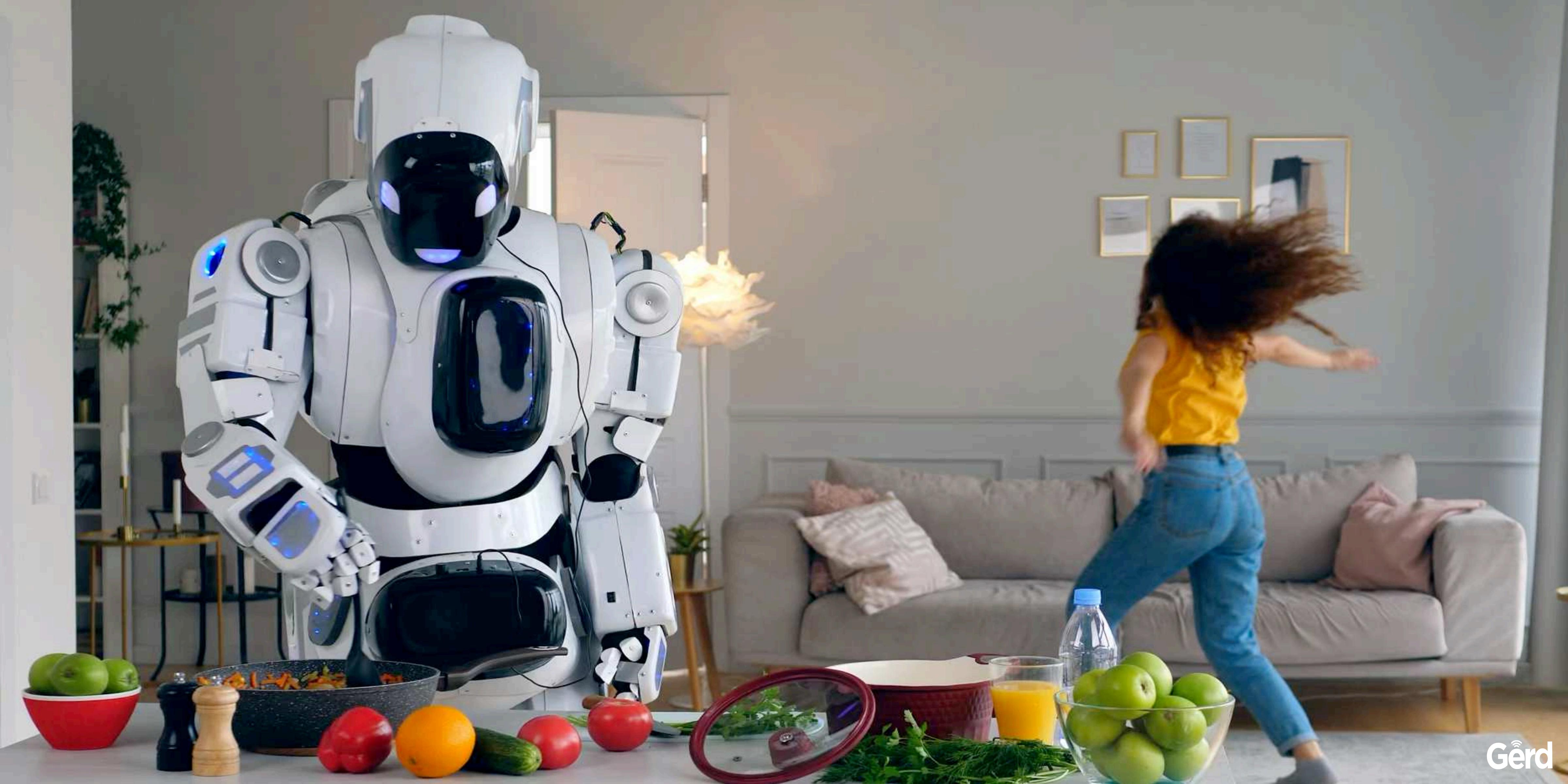
One of the platform's groundbreaking features is real-time ESG reporting: Controllers can instantly access a site's ESG metrics and observe live data streams of energy consumption, waste management, and labor practices"



# Can Al liberate us from "Monkey Work"?

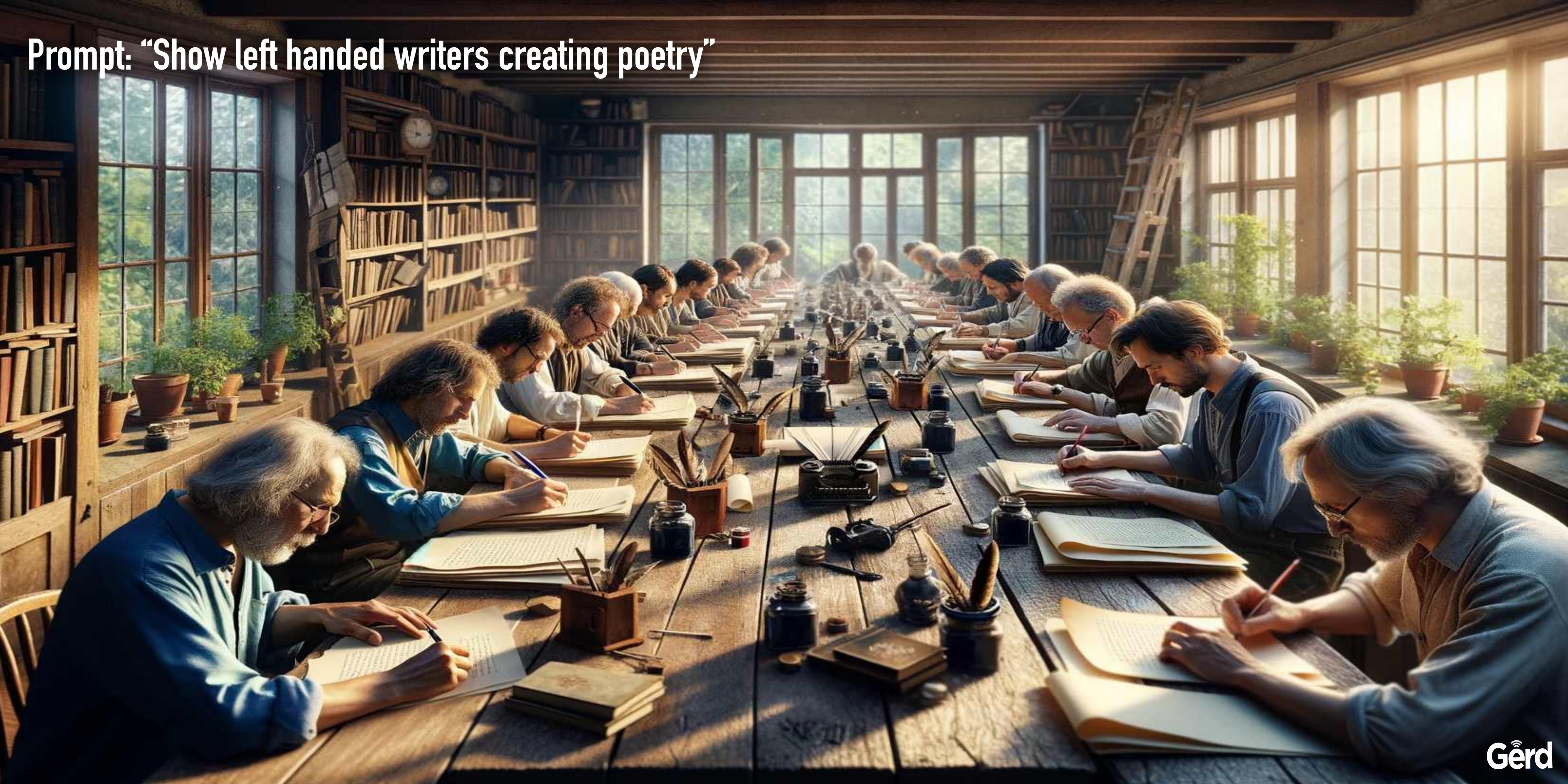






Sora (OpenAI) text to video: VERY COOL – but still no Context, no Causality, no Common Sense, no Veracity, no real Understanding. Still super-useful!







With Generative and Conversational AI, maybe the less accomplished can do a lot more – and the REALLY ACCOMPLISHED can make exponential leaps (or chill?) Gêrd

## OpenAi

Sam Altman, CEO, OpenAl:

"The coming change (in AI) will center around the most impressive of human capabilities:

## THE PHENOMENAL ABILITY TO THINK, CREATE, UNDERSTAND, AND REASON"



## Pursue Big Blue, Big Green, Big Purple

NETWORKED EVERYTHING

CLOUD EVERYTHING

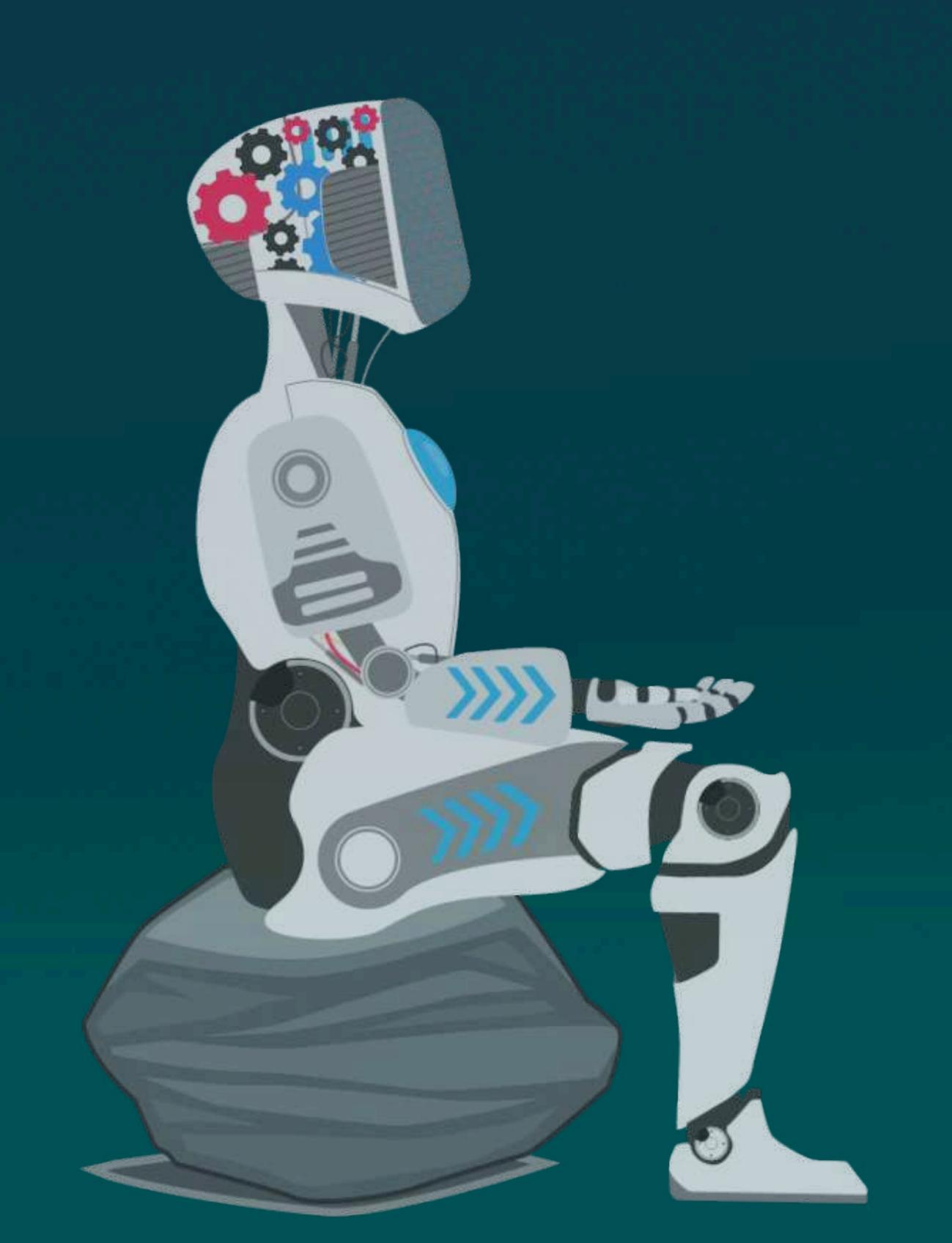


SUSTAINABLE EVERYTHING





## AI: COMPETENCE NOT CONSCIOUSNESS!





The question is not 'what Al will do to us' but WHAT WE WANT AITO DO FOR US

