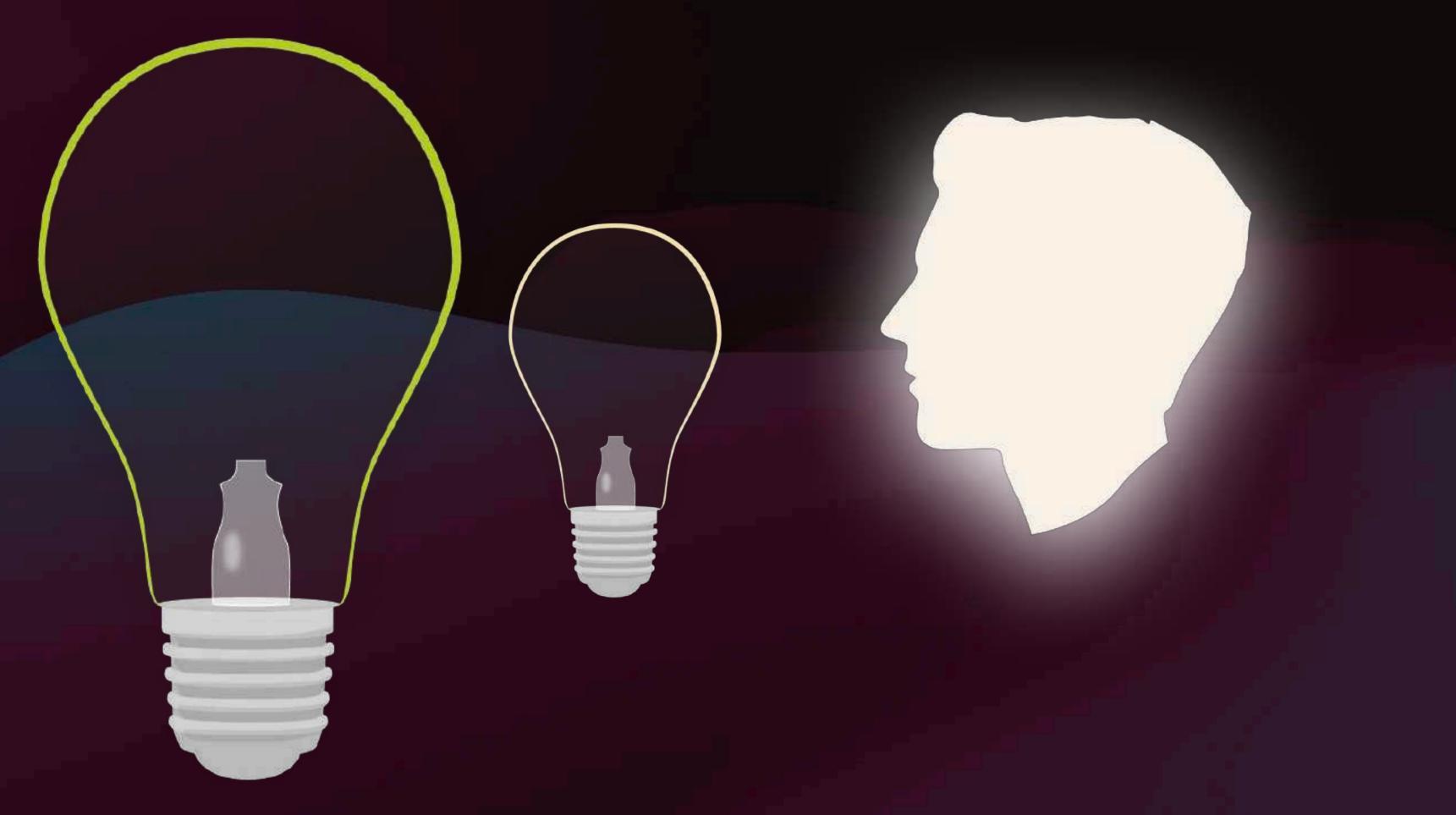
Artificial Intelligence and the future of human work, learning and training



Gerd Leonhard, Futurist



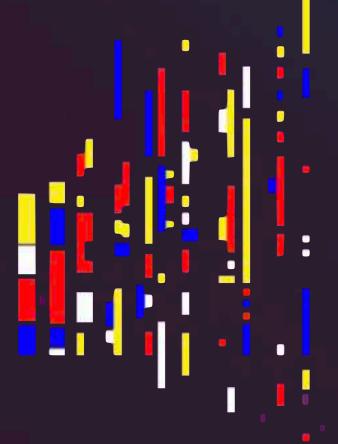






Steering Education:

From Engagement to Empowerment



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



The 3 Revolutions

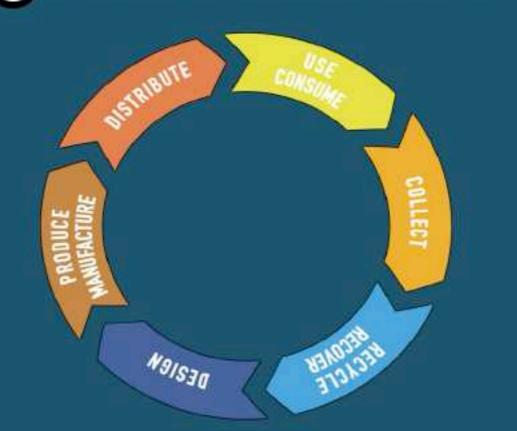
DIGITAL REVOLUTION

SUSTAINABILITY REVOLUTION

PURPOSE REVOLUTION













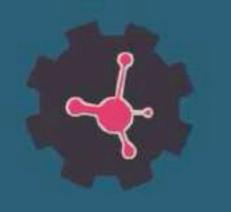
INFO TECH



ENERGY & CLIMATE TECH



BIO TECH







AI TECH

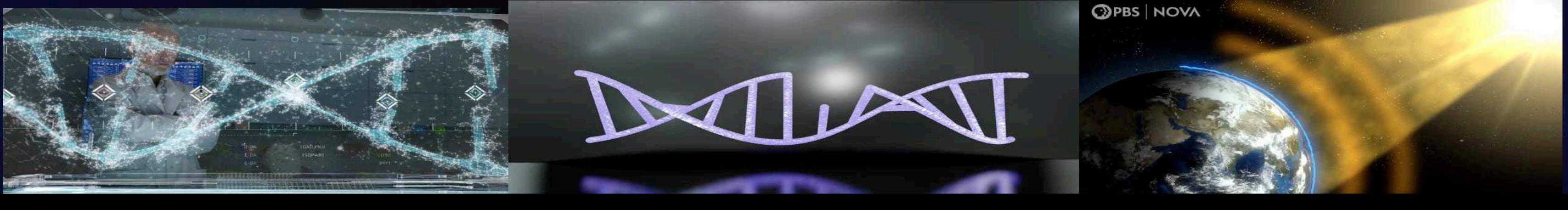




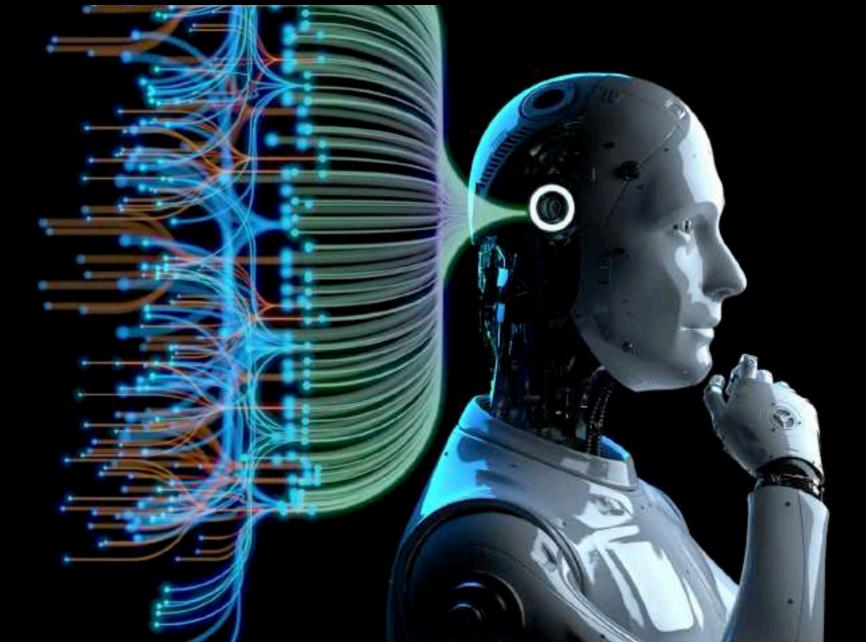


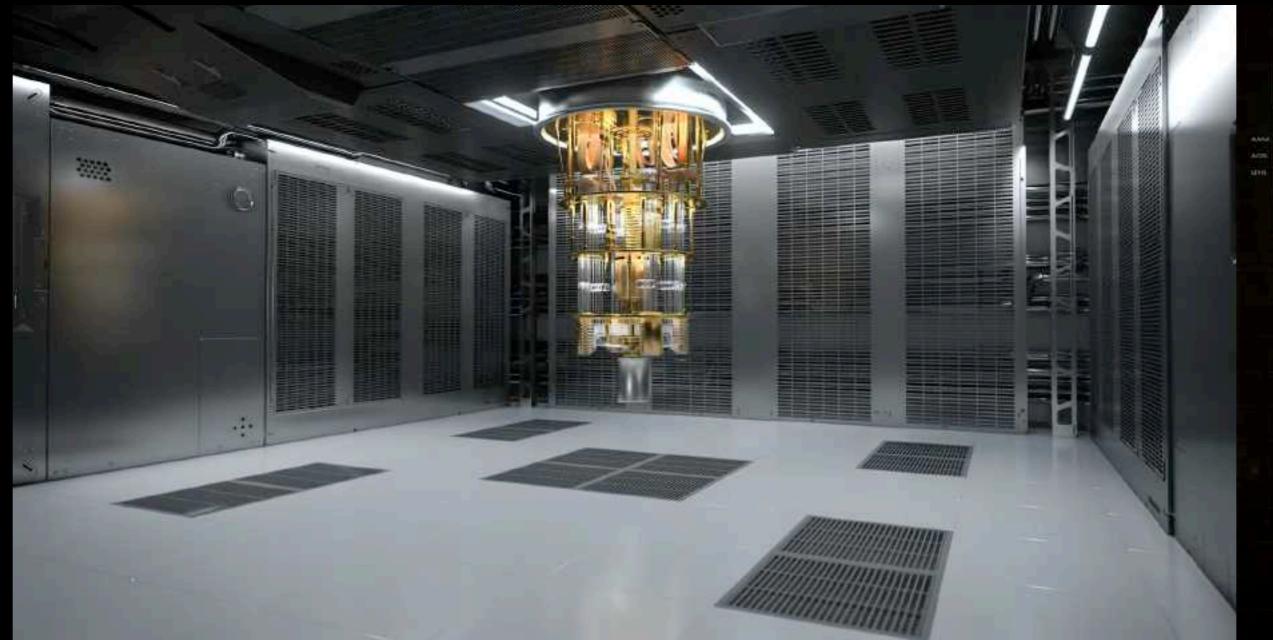




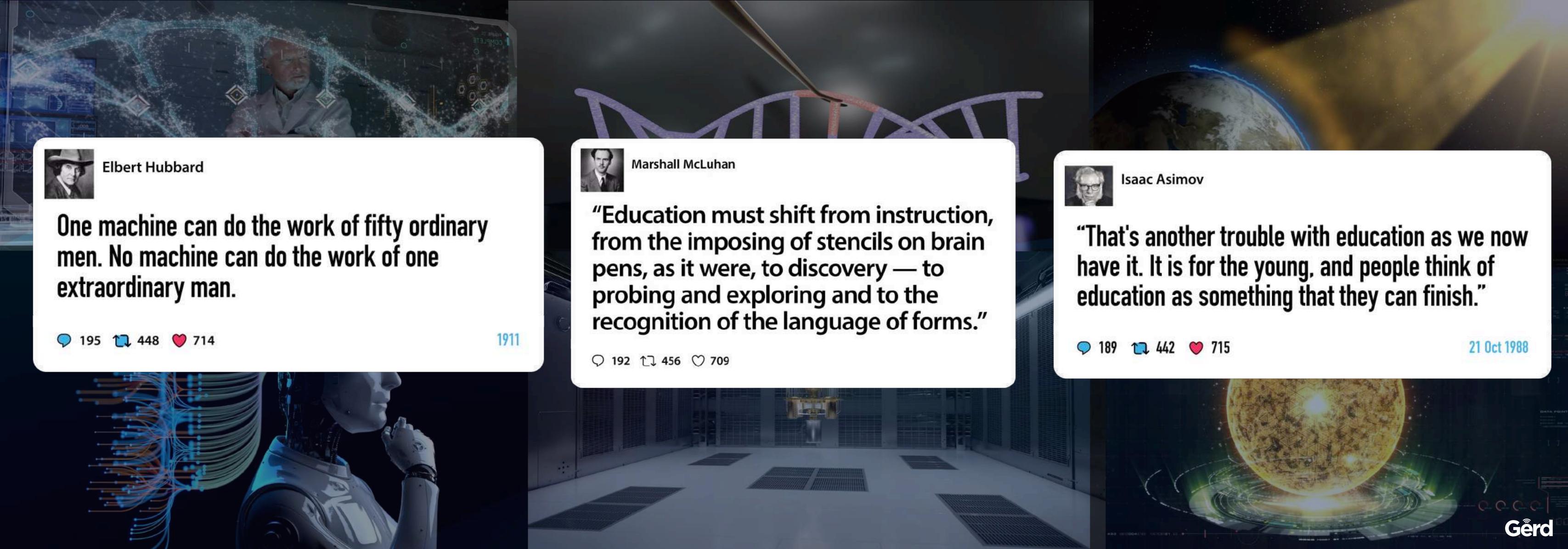


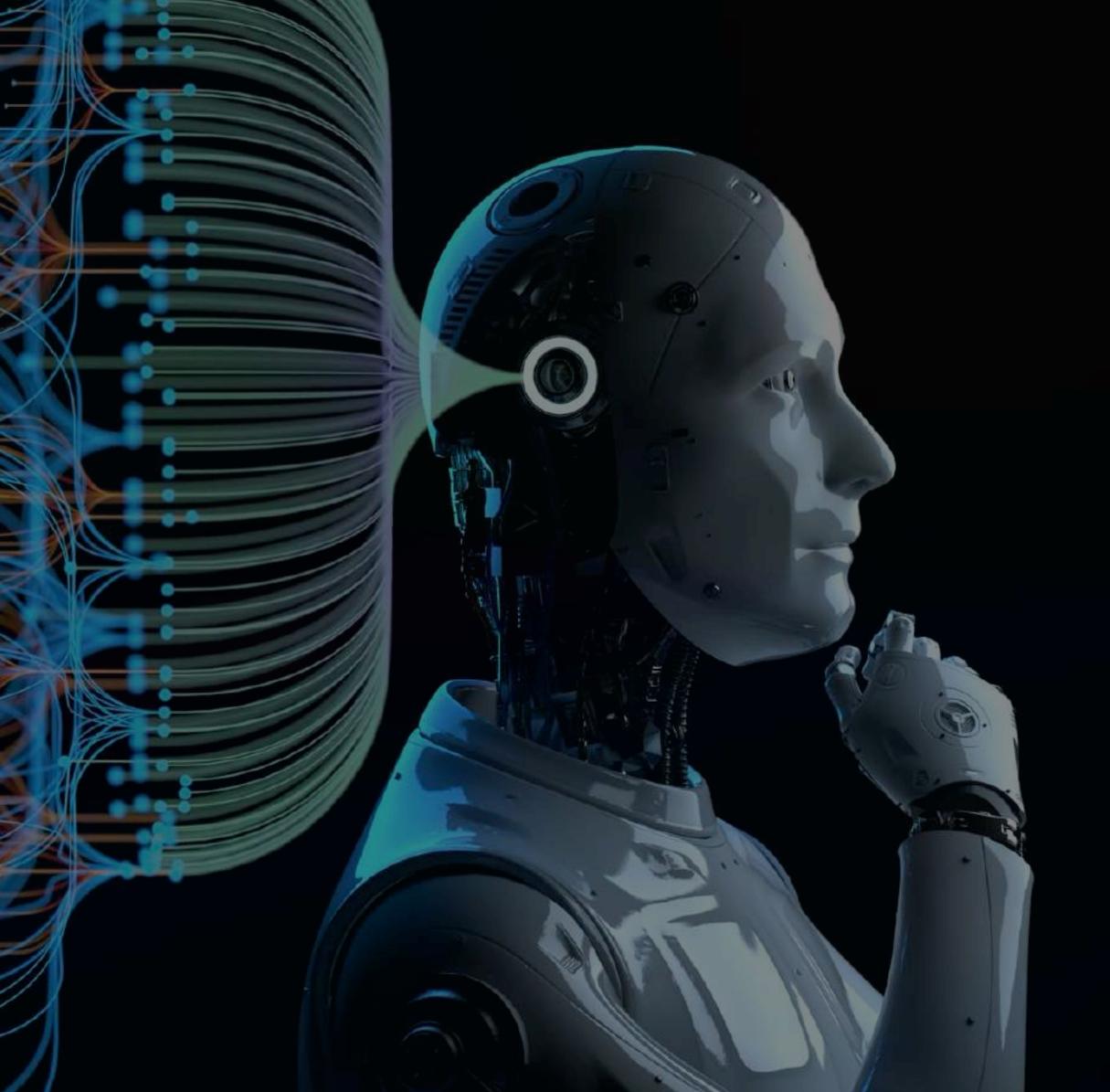
SIX King-Making Technologies : Al, Quantum Computing, Nuclear Fusion, Synthetic Biology, Genome Editing, Geo-Engineering











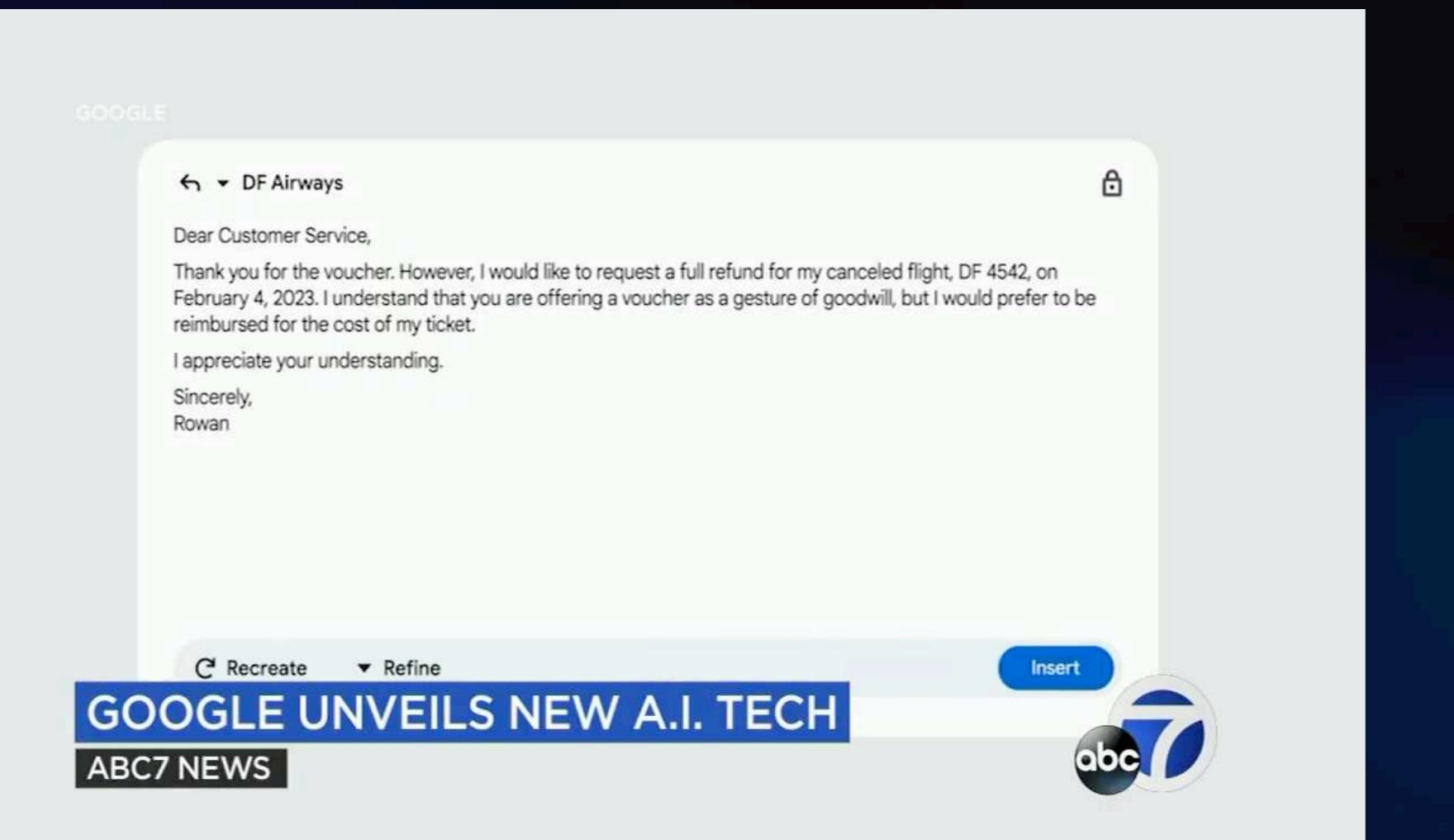
Al: "Computer systems that turn information and data into KNOWLEDGE"

(DEMIS HASSABIS, CEO, DEEPMIND)

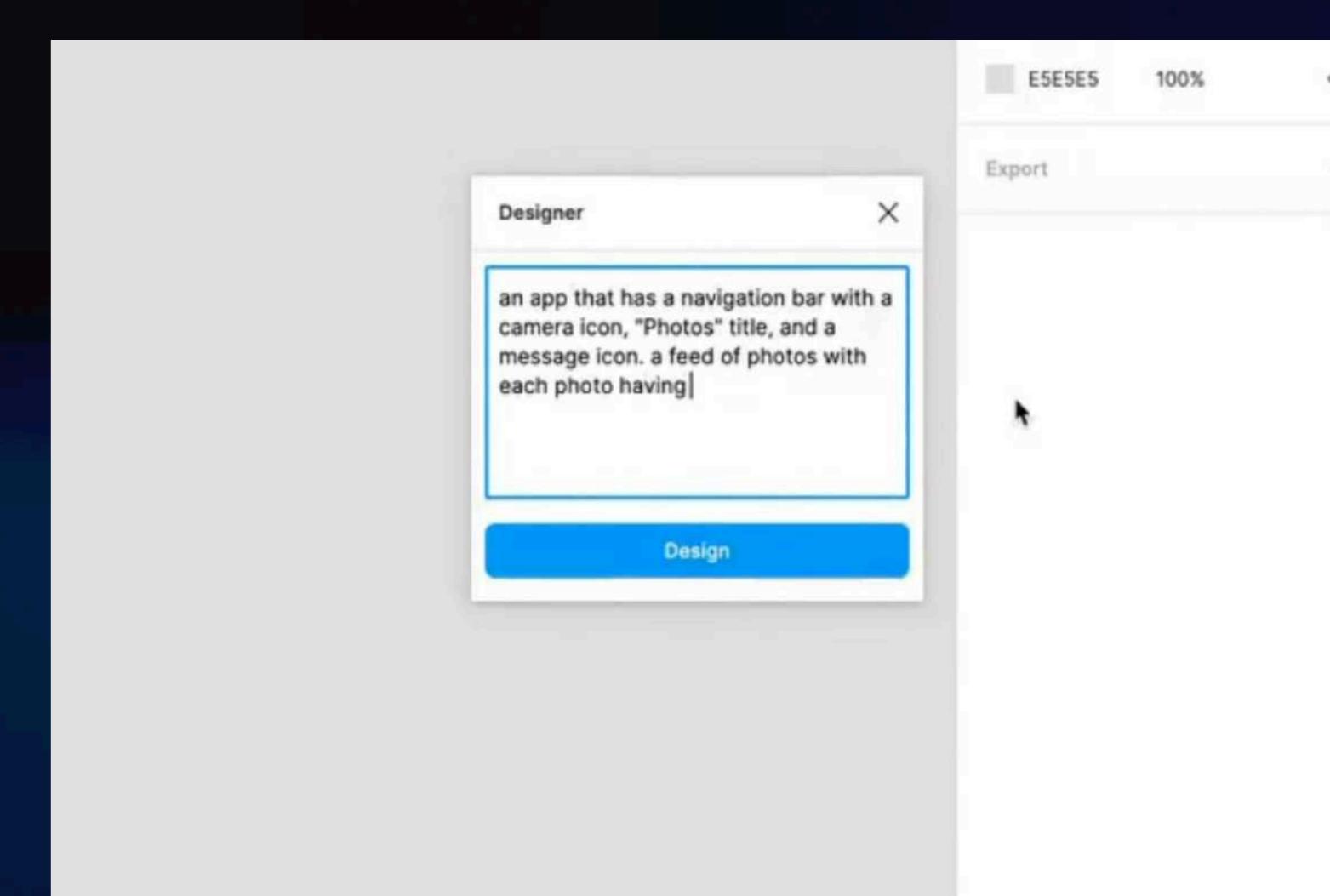
GenAl: "Computer systems that turn information, data and knowledge into CONTENT"

ERD)

. turning information, data and knowledge into CONTENT



(Generative AI)



. .turning information, data and knowledge into CONTENT

GOOGLE



C Recreate ▼ Refine

GOOGLE UNVEILS NEW A.I. TECH

ABC7 NEWS





l asked ChatGPT 4 (Pro); What skills will I need for business and management in the future, as routine work is increasingly done by Al?



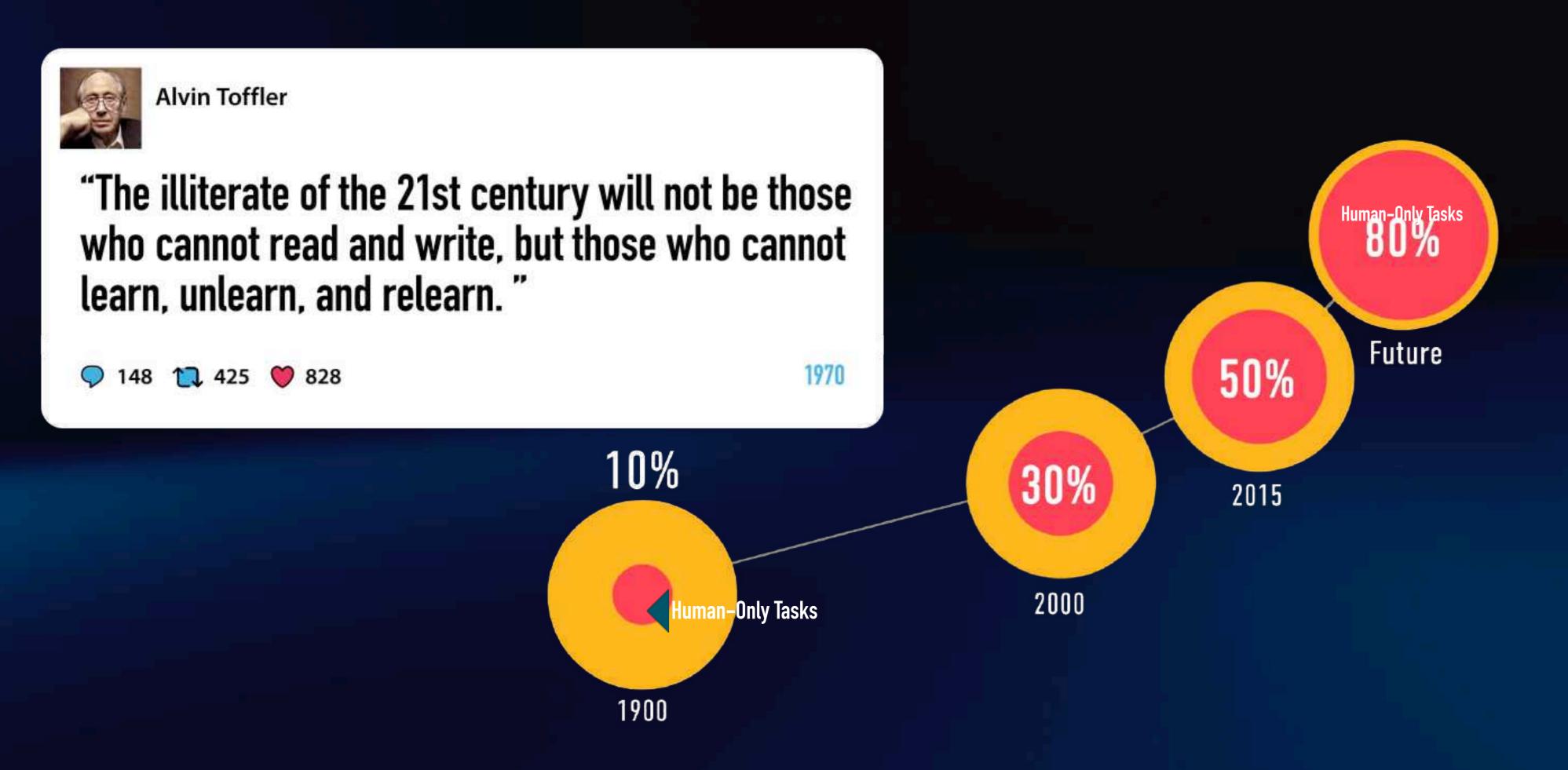
What skills will I need for business and management in the future, as routine work is done by AI?

- As the adoption of Al increases, the demand for certain skills is likely to grow in the field of business and management. This change will demand a shift from routine work to tasks that require uniquely human skills. Here are a few of these crucial skills:
- Strategic Decision-Making: As Al takes over routine tasks, managers will need to focus
 more on strategic decisions that will shape the future of the business. This involves not
 just analyzing data but interpreting what it means for the business and making informed
 predictions.
- Al Literacy: Understanding how Al works and how it can be applied in business is going
 to be essential. This includes being aware of the strengths and limitations of Al,
 understanding the basics of data analysis, and being able to interpret Al outputs.
- Emotional Intelligence: Al isn't capable of emotional understanding or empathy.
 Managers will need to be adept at understanding and responding to the emotional needs of their team members. This involves skills such as empathy, motivation, social awareness, and relationship management.
- Communication and Collaboration: As Al becomes more prevalent, human collaboration
 will become even more important. The ability to communicate effectively, build
 relationships, and work well in teams will be essential.
- Innovation and Creativity: All is excellent at optimizing existing processes, but it's not so
 great at coming up with brand new ideas or strategies. The human ability to innovate and
 think creatively will be increasingly valuable



.

As machines become smarter and take over more routines, HUMAN-ONLY attributes become invaluable *

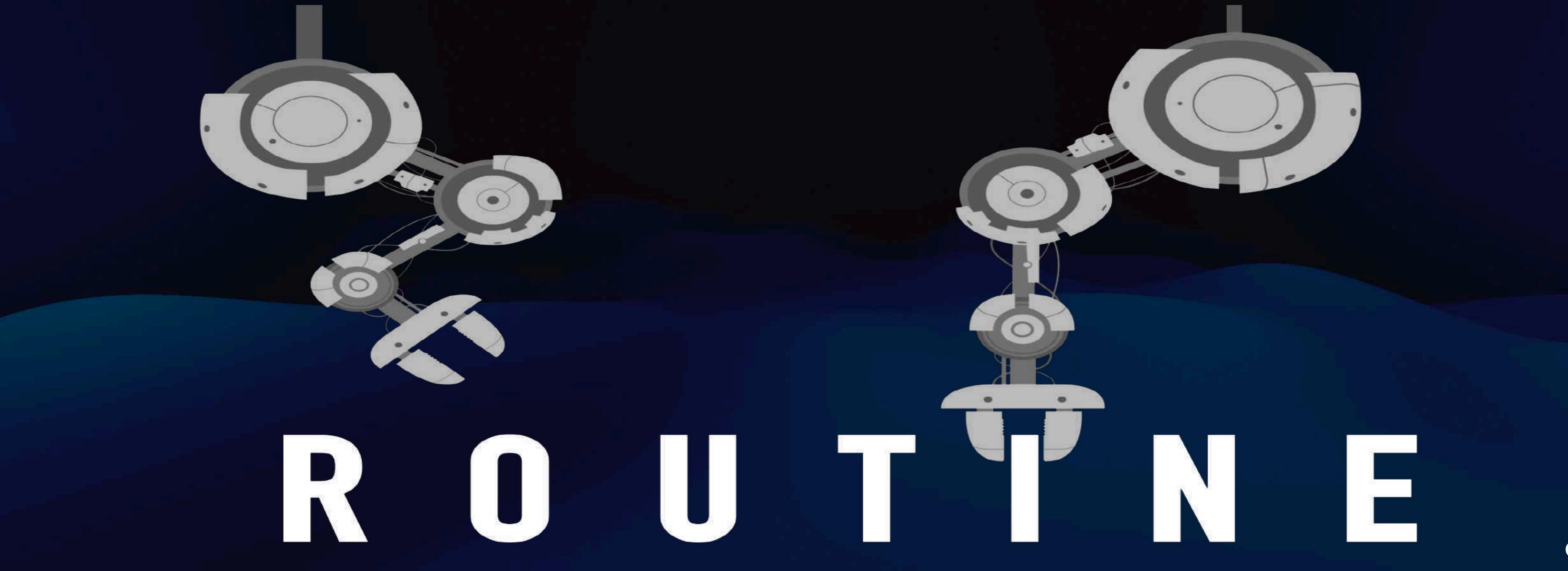


- Social Well-Being Agent
- Societal Risk Manager
- Ethics Specialist
- Data Bias Supervisor
- Nature Deficit Therapist
- Job & Training Inventor
- HI / Al Interface Manager
- Climate Change Actionist
- Rewilderer / Nature Agent
- ► Long-Term Thinker
- Digital Crafts Person



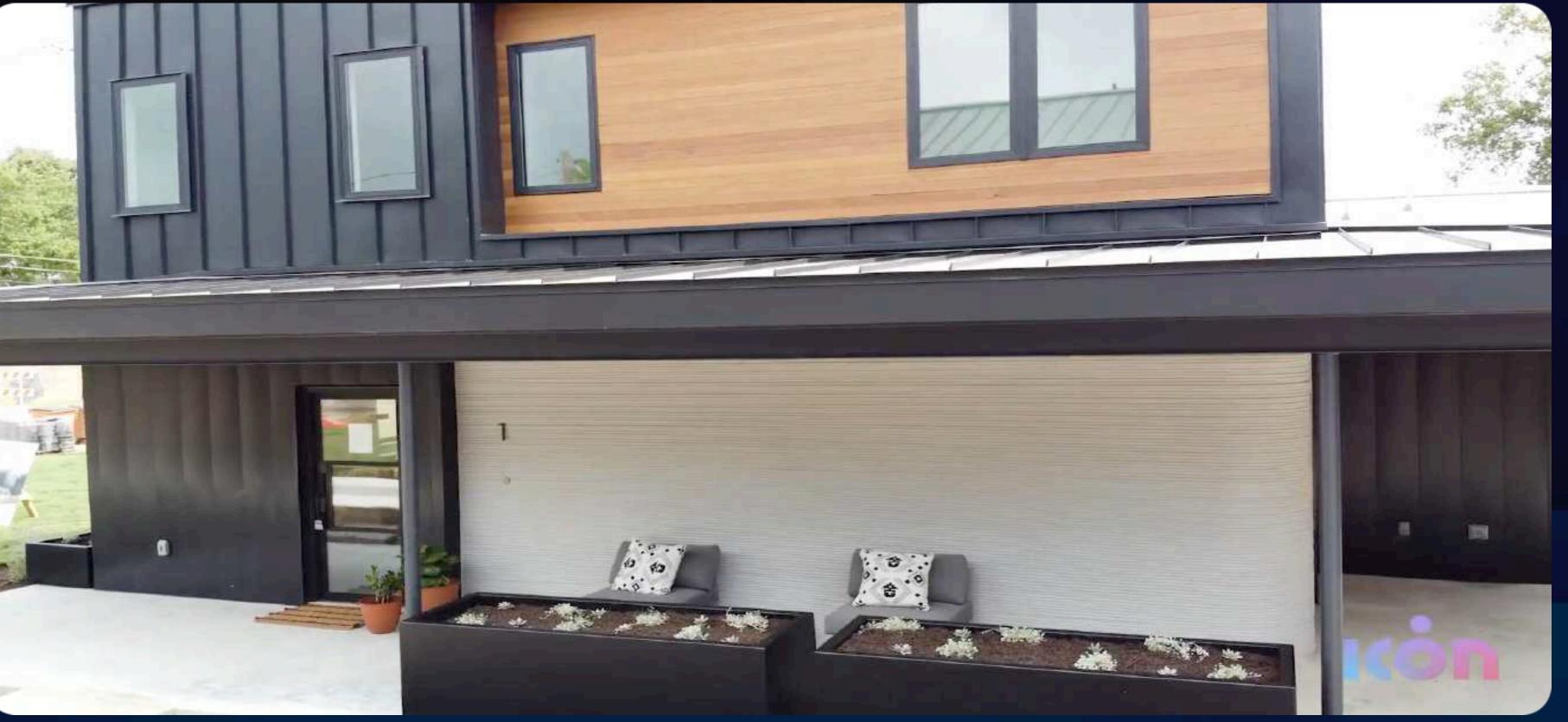


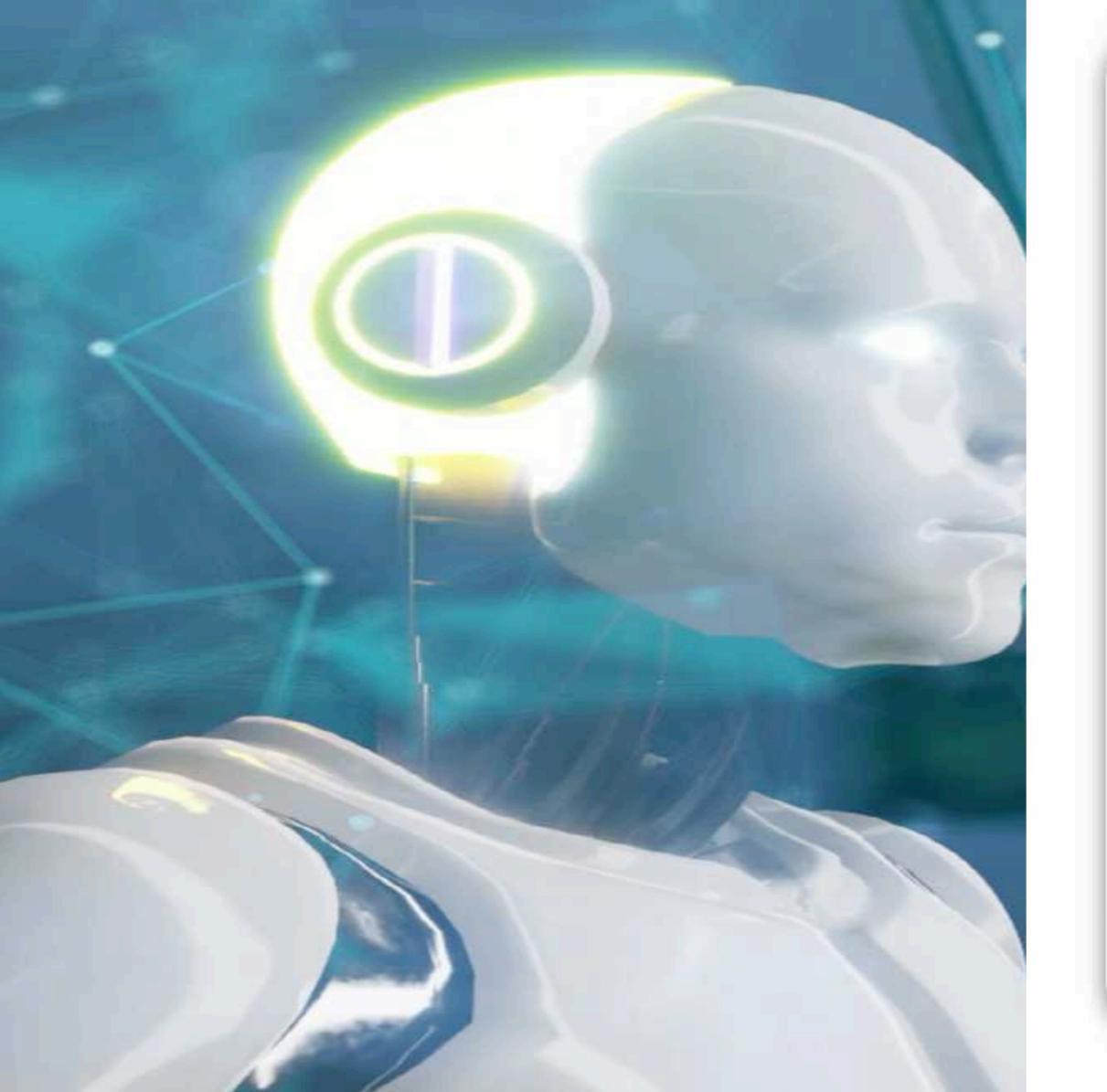


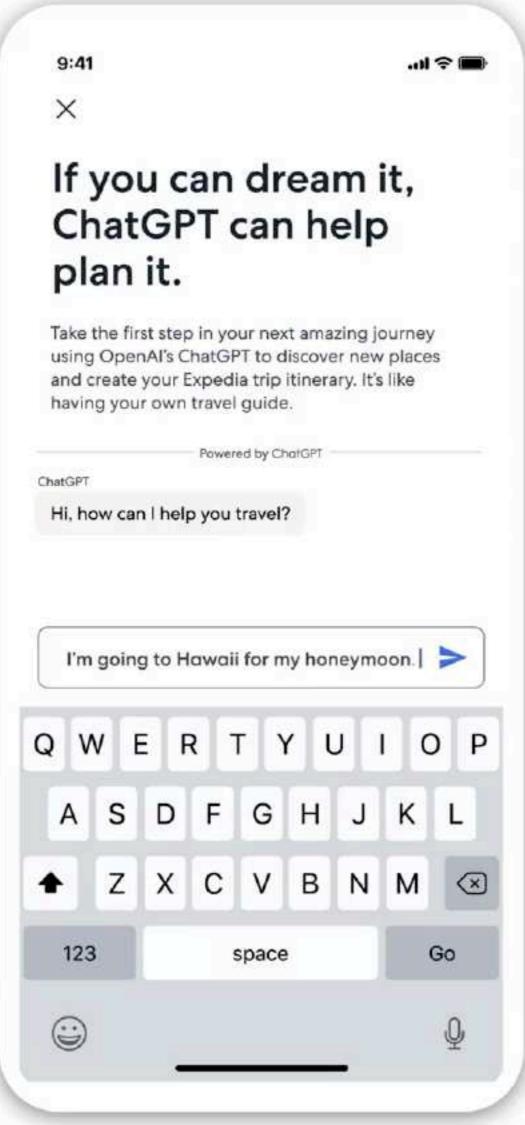


Gerd









Einstein GPT

Hi John,

I'd love to connect on your growth plans. Next week?

Thanks, Michele

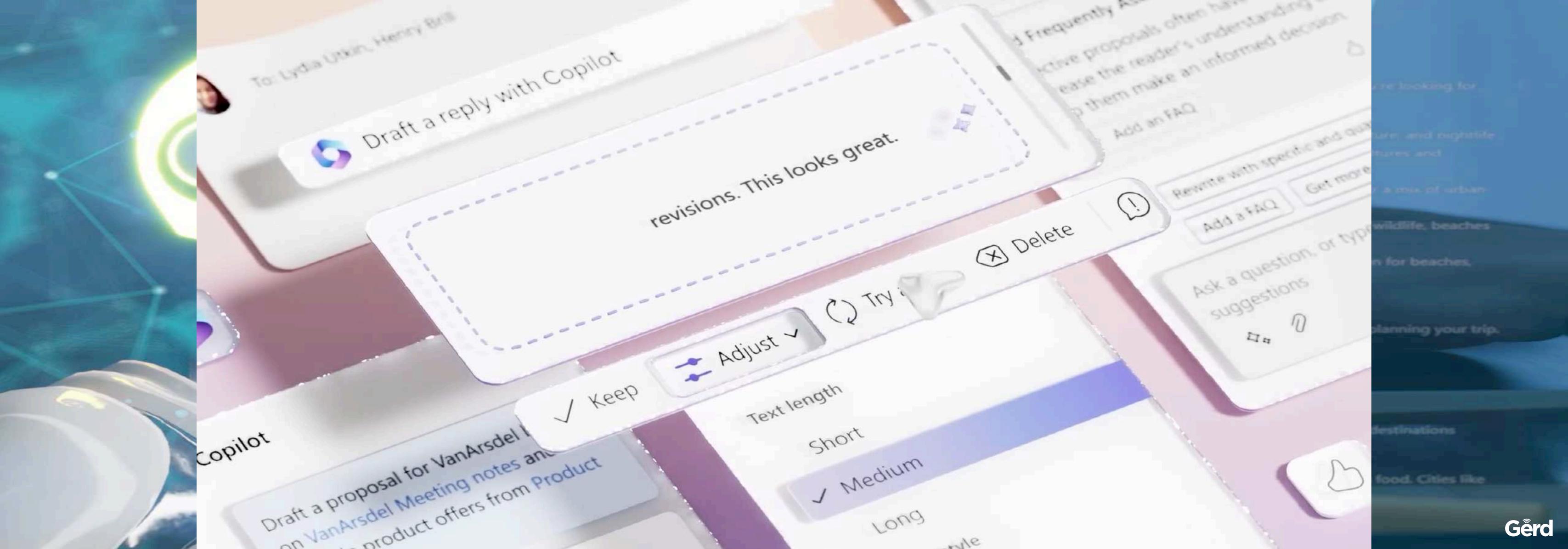
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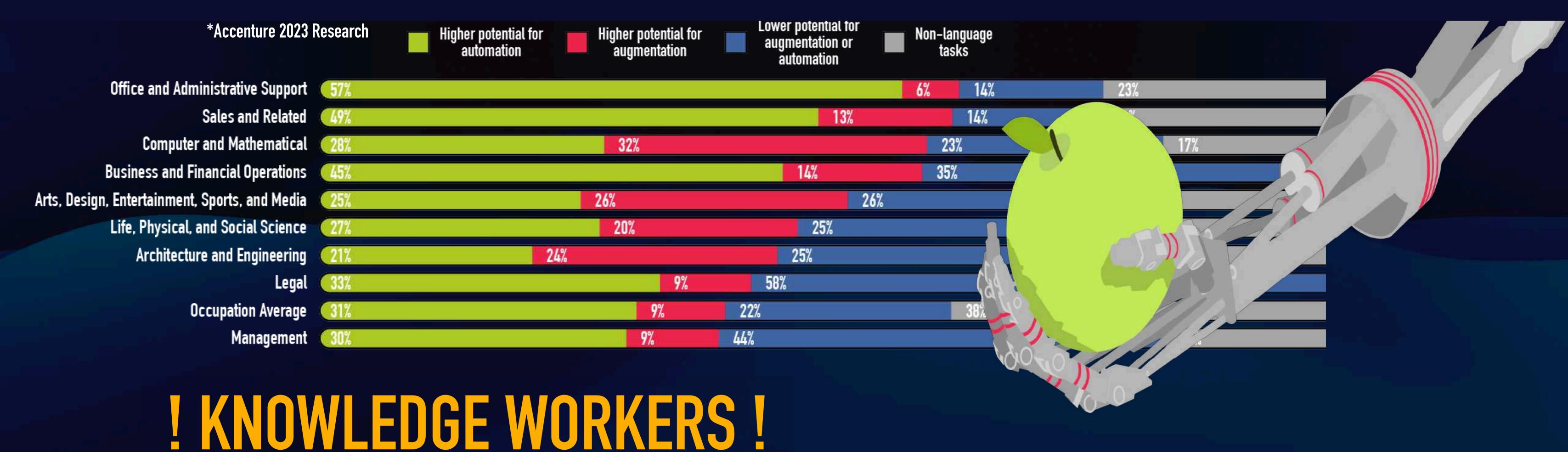


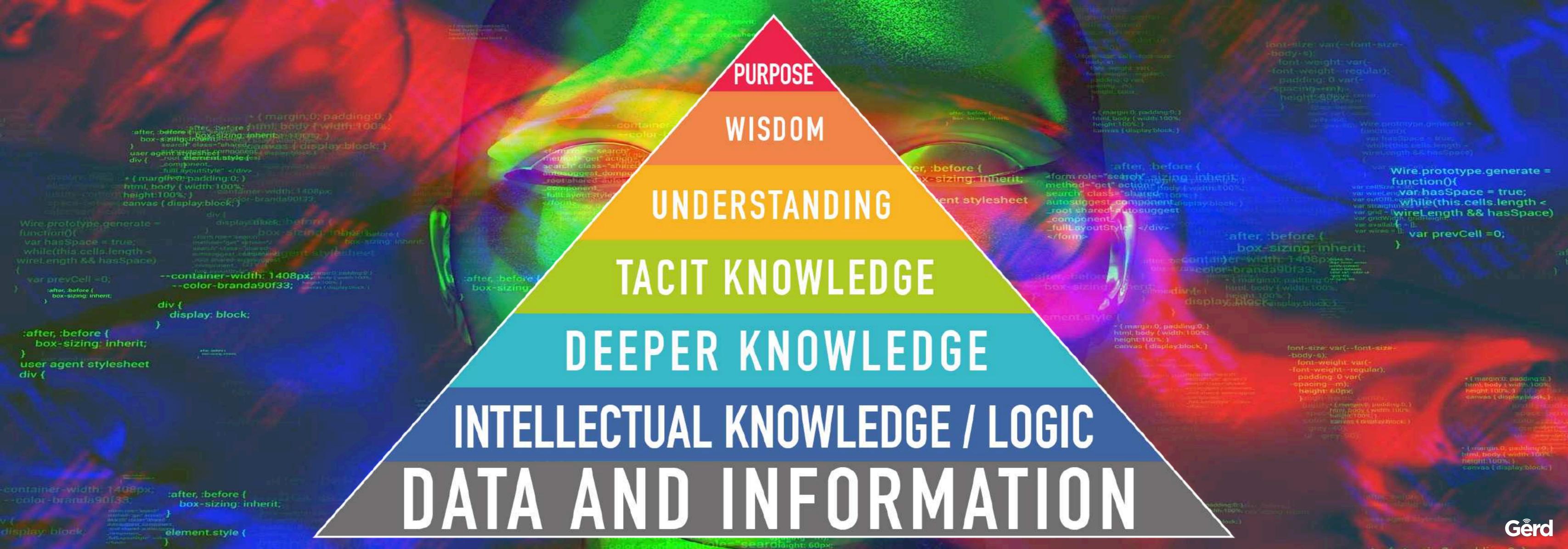
landscapes, and delicious food. Cities like





Generative AI including ChatGPT could disrupt - not necessarily replace - 300 million full-time jobs globally (Goldman Sachs). Experts expect AI to mostly impact white-collar jobs







If you work like a robot, a robot will take your job! And if you LEARN... 01 110 01 011 0101 01 001 01 0 010 011 0 011 00 101 001 0 1110 0 100 0 110 00 11 0 1000 011 01 0110 01 110 01 011 00 Gerd

WHAT ARE THE PRIMARY BUSINESS OBJECTIVES FOR USING AI FOR YOUR PROJECTS/INITIATIVES?





Automation !??

Augmentation !!!





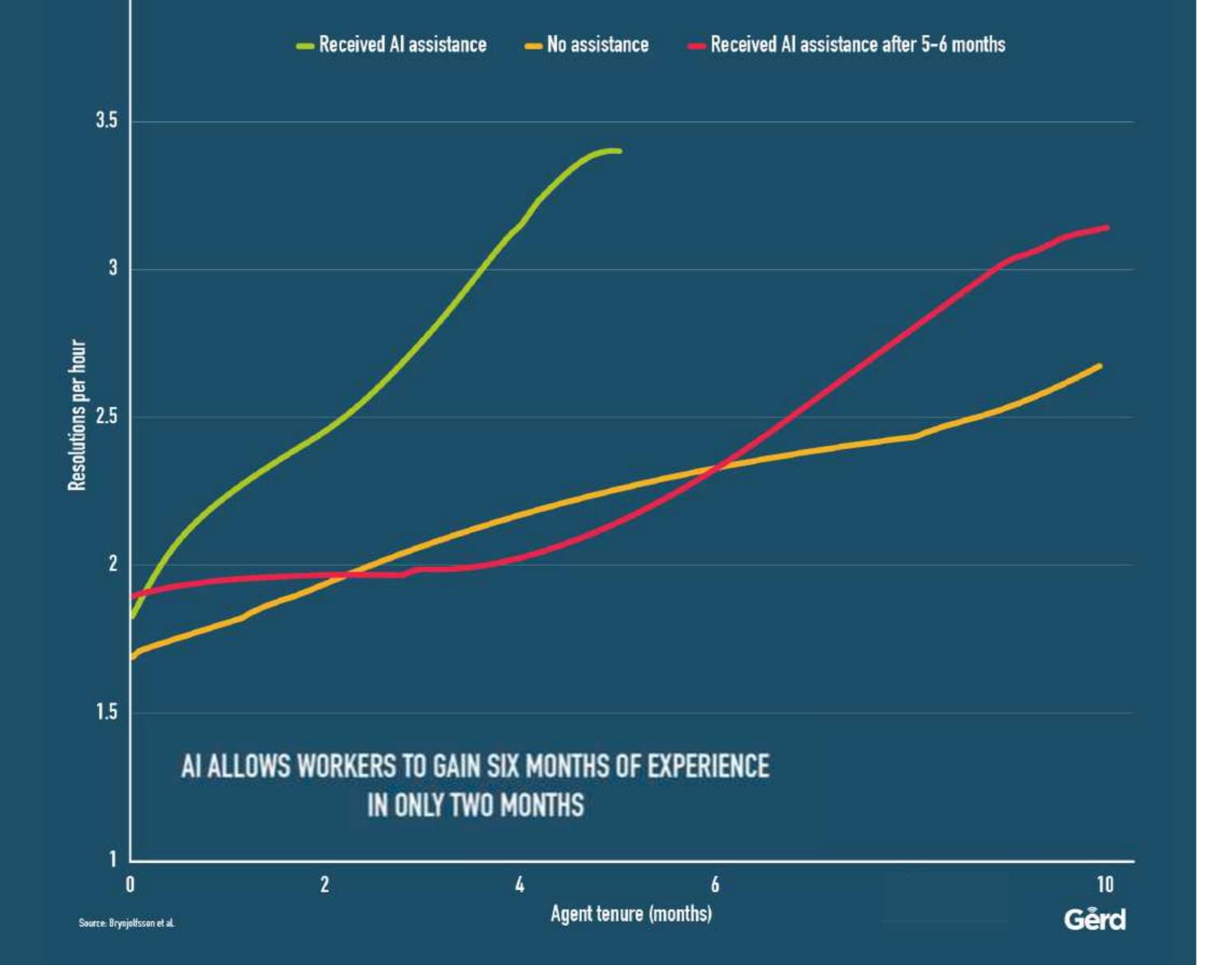
Vacation..?



Automating routines: Don't mistake a clear view with a short distance! (Paul Saffo)



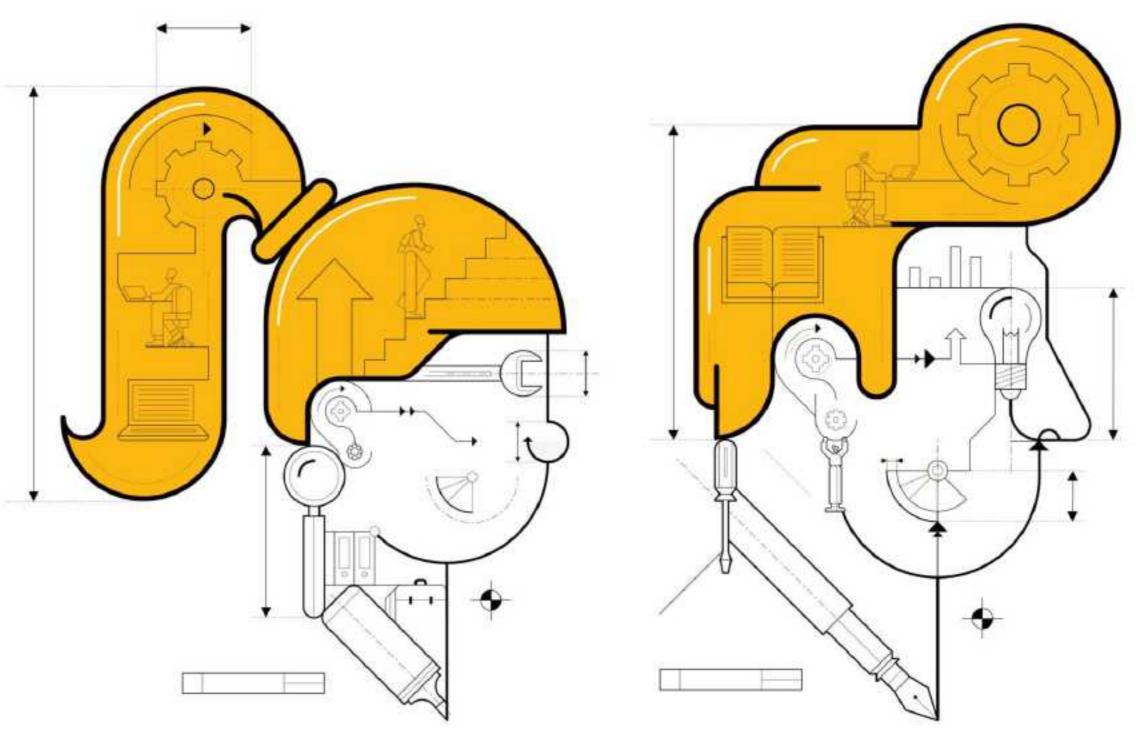




The New-Collar Workforce

There's a huge, capable, and diverse talent pool out there that companies aren't paying nearly enough attention to: workers without college degrees. It's time for a skills-first approach to hiring and people management. by Colleen Ammerman, Boris Groysberg, and Ginni Rometty

From the Magazine (March-April 2023)



BlindSalida

Exponential speed of change in labour markets: More jobs for more people without formal degrees?

Will the primacy of the university degree as a hiring qualification erode because of Al?

Google Professional Certificates

Gain the job-ready skills you need to launch or advance your career in Data Analytics, Cybersecurity, Digital Marketing & Ecommerce, IT Support, Project Management or **UX** Design





Brittany Hoover - Google UX Design Graduate and Digital Designer at Deloitte









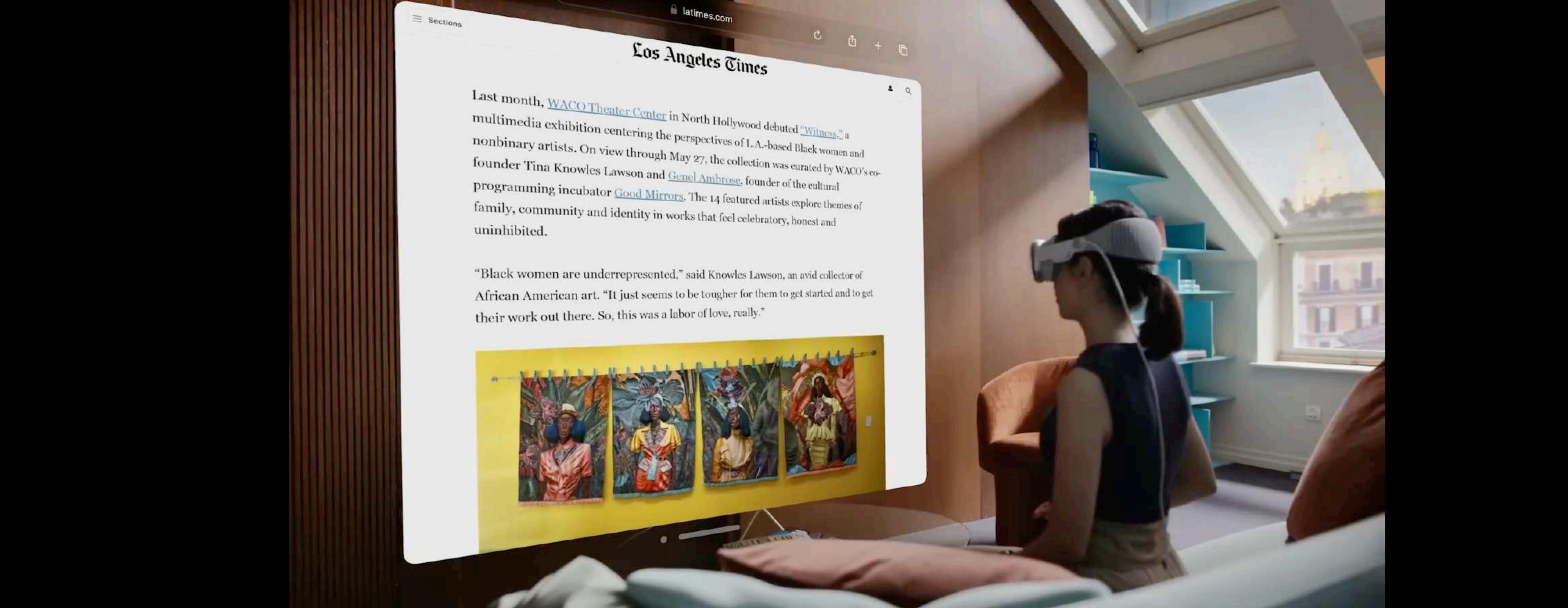


CO-CREATION

AWESOMENESS

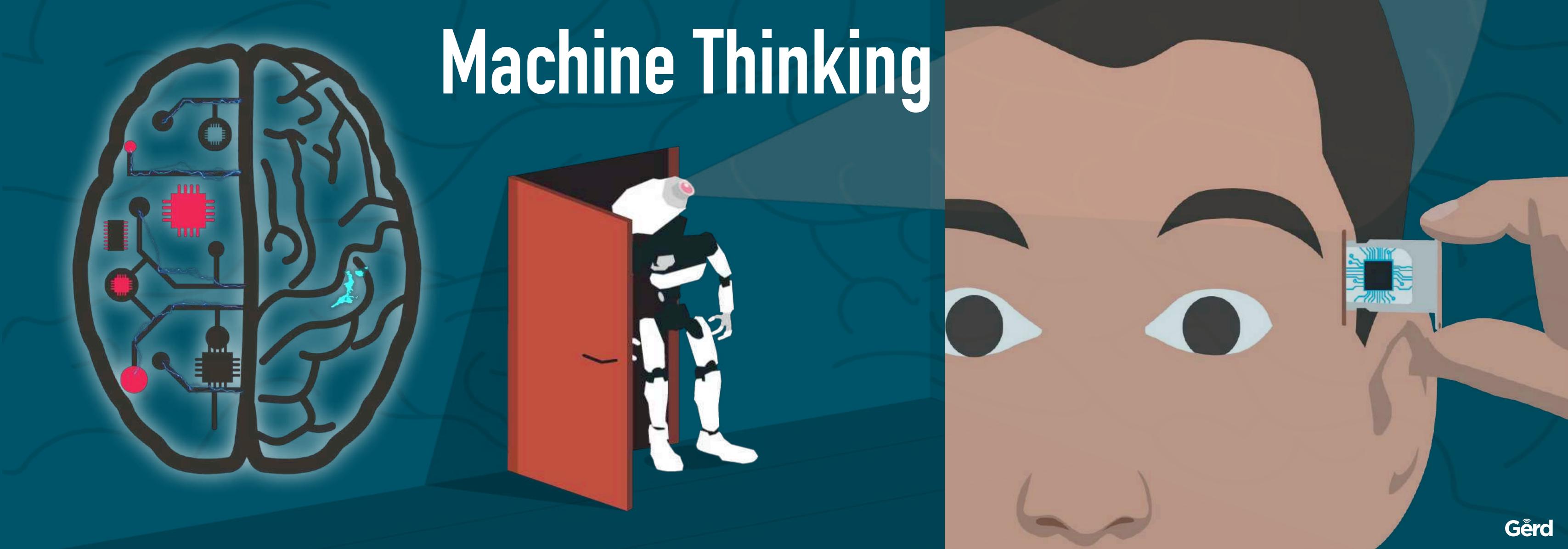


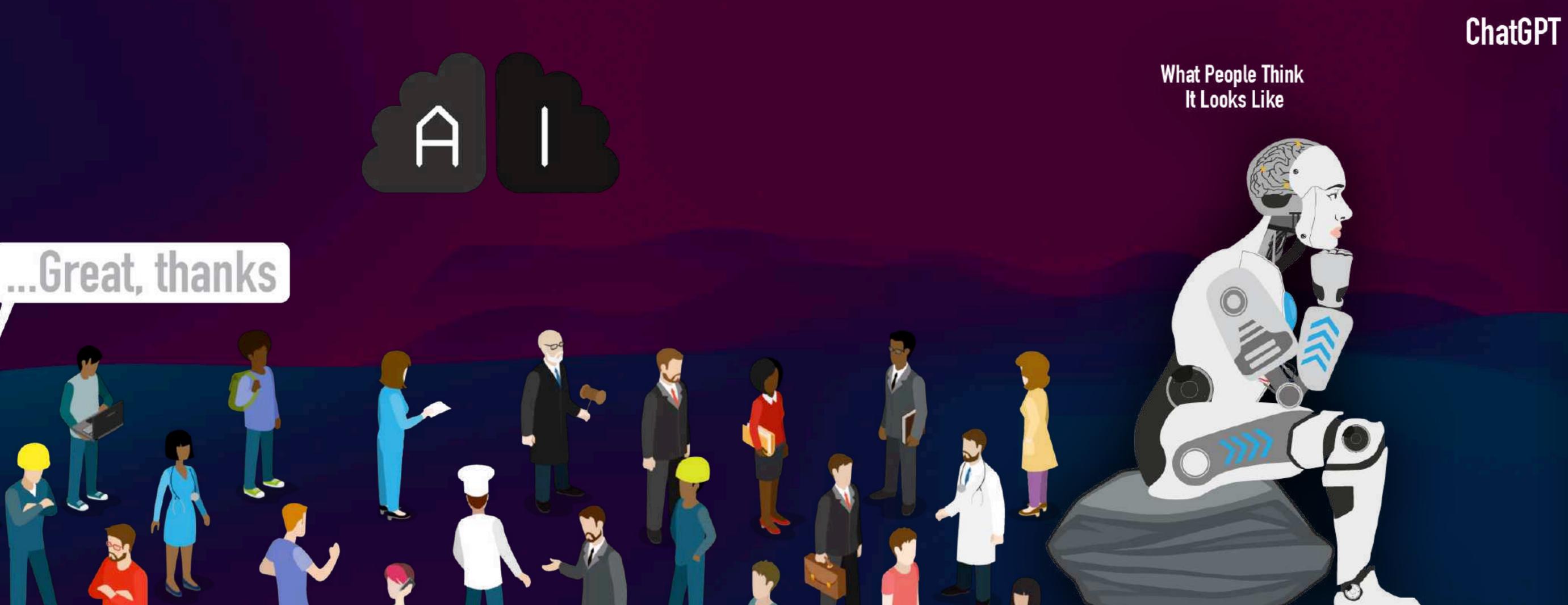




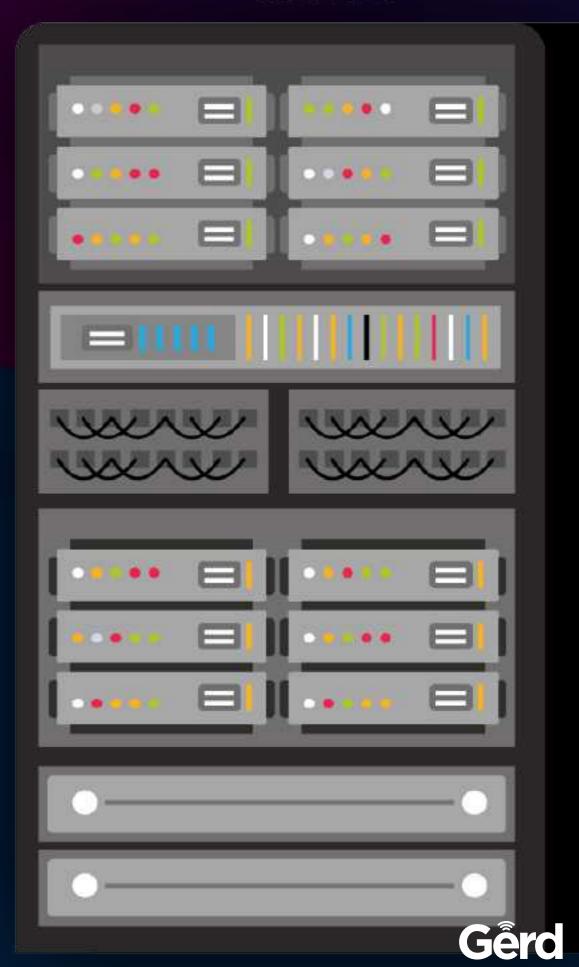


Dramatically increased skill acquisition with AR / VR, AI +++

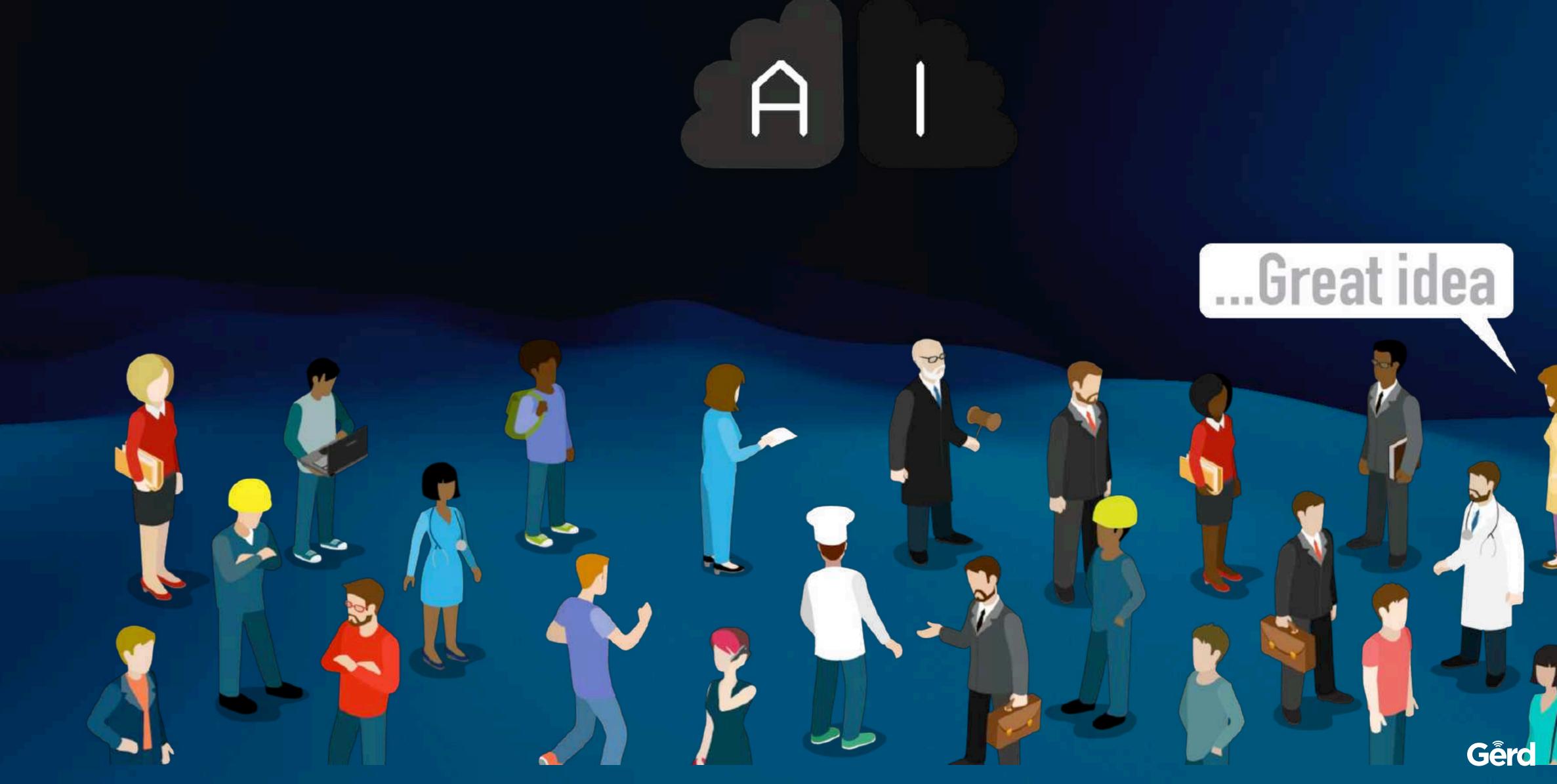




What It Actually Looks Like



Reductionism Manipulation Abdication Confusion Errors Bias



Challenges of LLM's such as ChatGPT: Speed not Depth Noise in - Noise out Coherence not Truth Patterns not Meaning Simulations ≠ Reality Digital World ≠ Real World



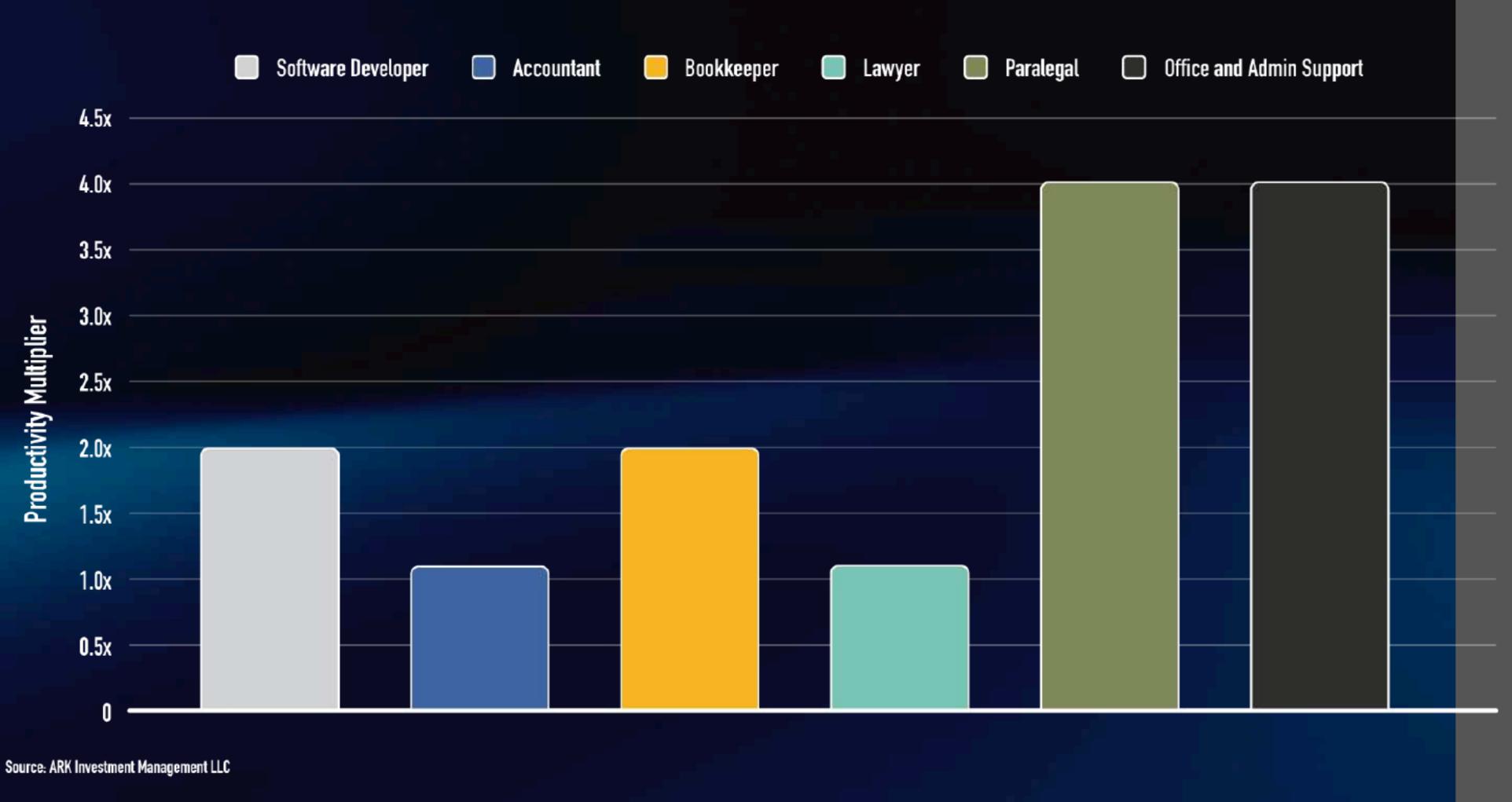




TECHNOLOGY HAS NO ETHICS

OUTPUT OF AI-ASSISTED KNOWLEDGE WORKERS 2021 TO 2030

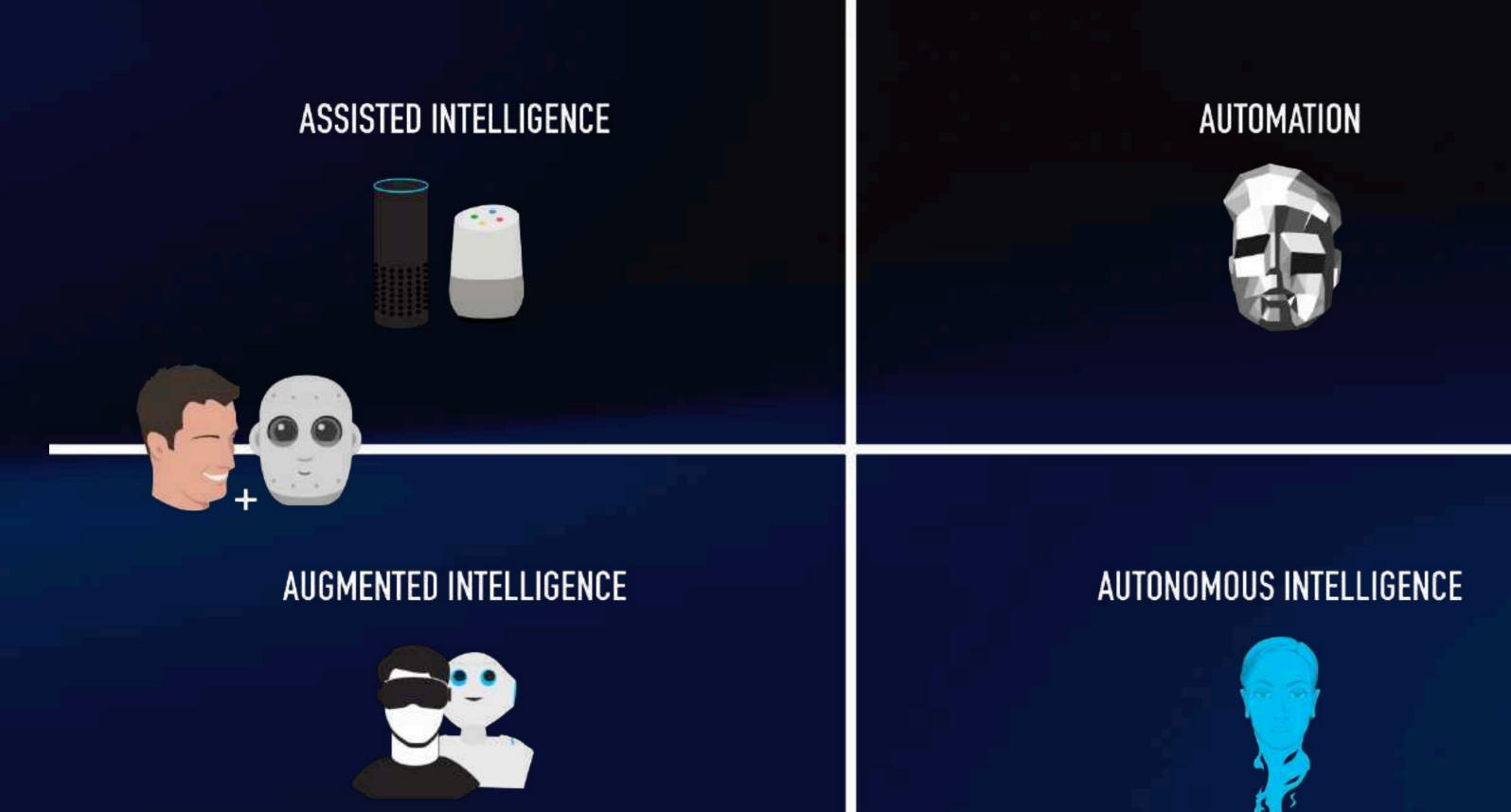
BY 2030 AI WILL INCREASE THE OUTPUT OF KNOWLEDGE WORKERS BY 140%







"Intelligence means having the power to shape the world in your interest" Stuart Russell



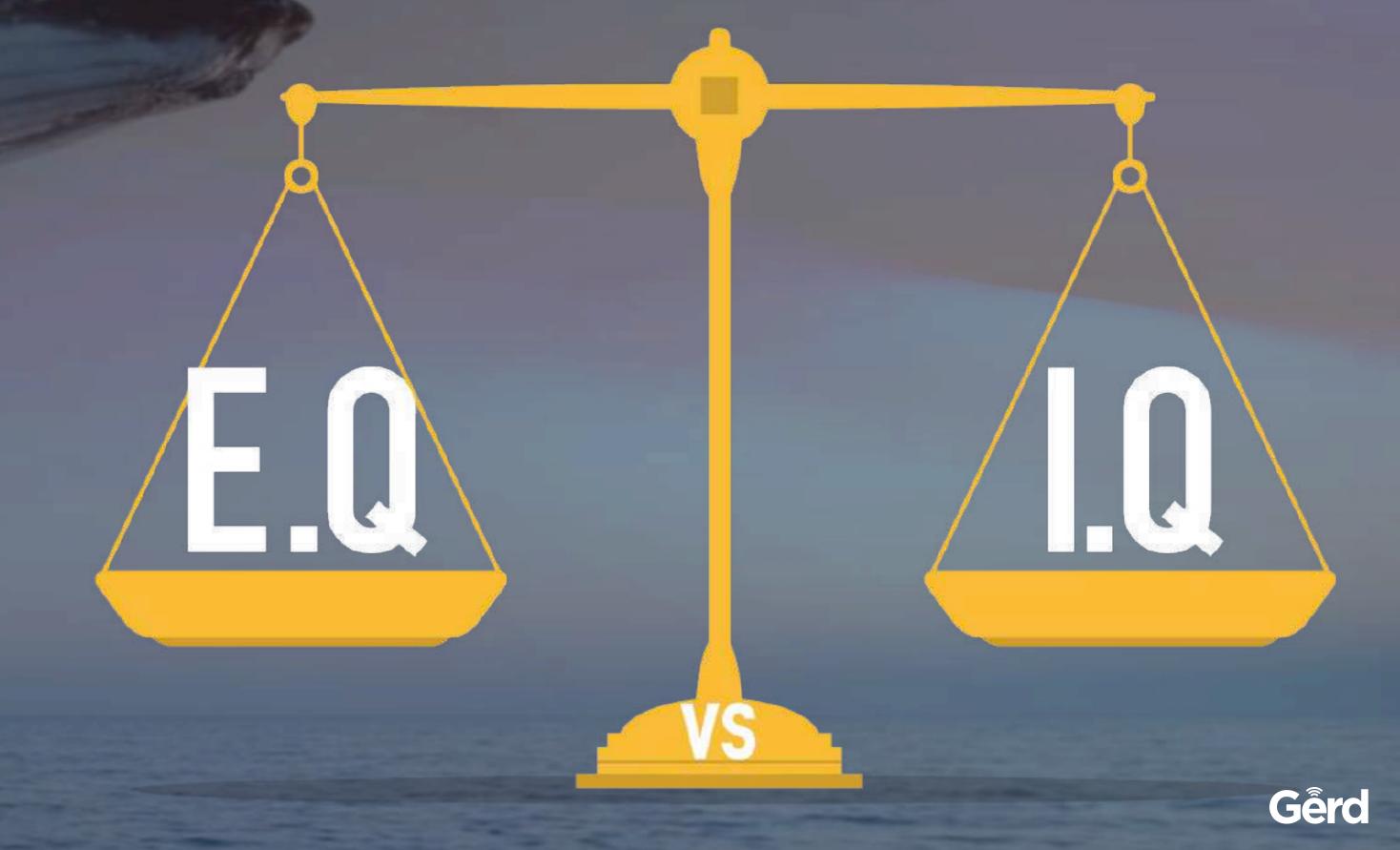
For AI, it's COMPETENCE not consciousness that matters

Stuart Russell in "Human Compatible"



We don't just need re-skilling: We need to re-humanise!

"Imagining the future may be more important than analyzing the past. Companies today are no longer resource-bound, they are IMAGINATION-BOUND"



NEW L&D GOALS:

Human Agency DISCOVERY Imagination Intuition Compassion **Empowerment** Resilience & Agility Unorthodoxy Creativity Entrepreneurship Courage

