

# LEARNING AND EDUCATION: FIT FOR THE FUTURE?



AI



**oeb**  
Shaping the future  
of learning

incorporating  
**learning  
technologies**

Gerd Leonhard, Futurist & Public Thinker



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Climate Emergency <sup>X</sup>

AI Risks / AGI Arms Race

USA Uncertainties / Trump 2.0

Misinformation Explosion, Democracy Decline

Geopolitical Tensions & Conflicts

Nuclear Weapons Resurgence

Rise of Autocrats & Populists

**GENERAL FEAR OF THE FUTURE**

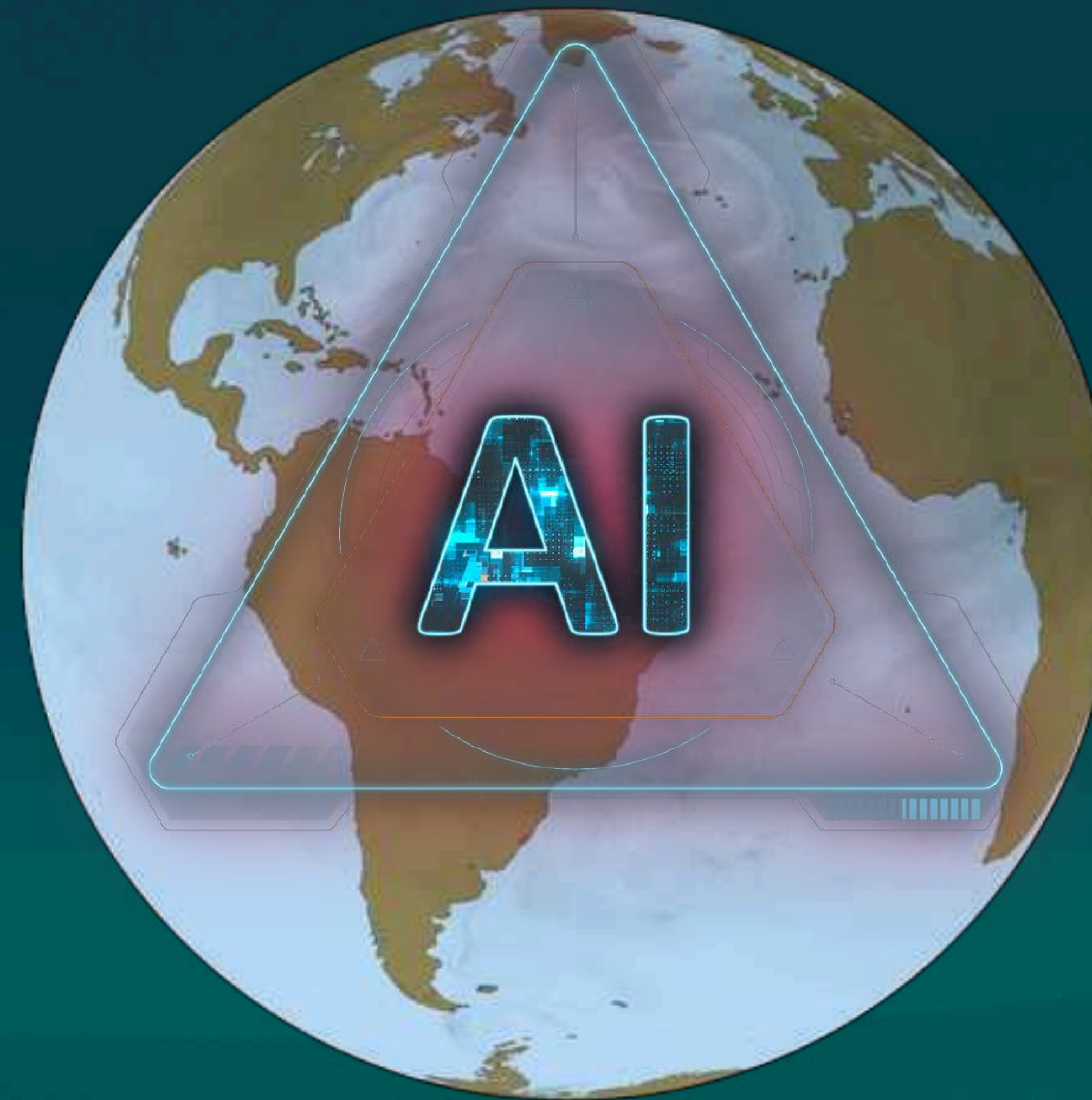




BUSINESS AS USUAL  
**IS DEAD  
OR DYING**

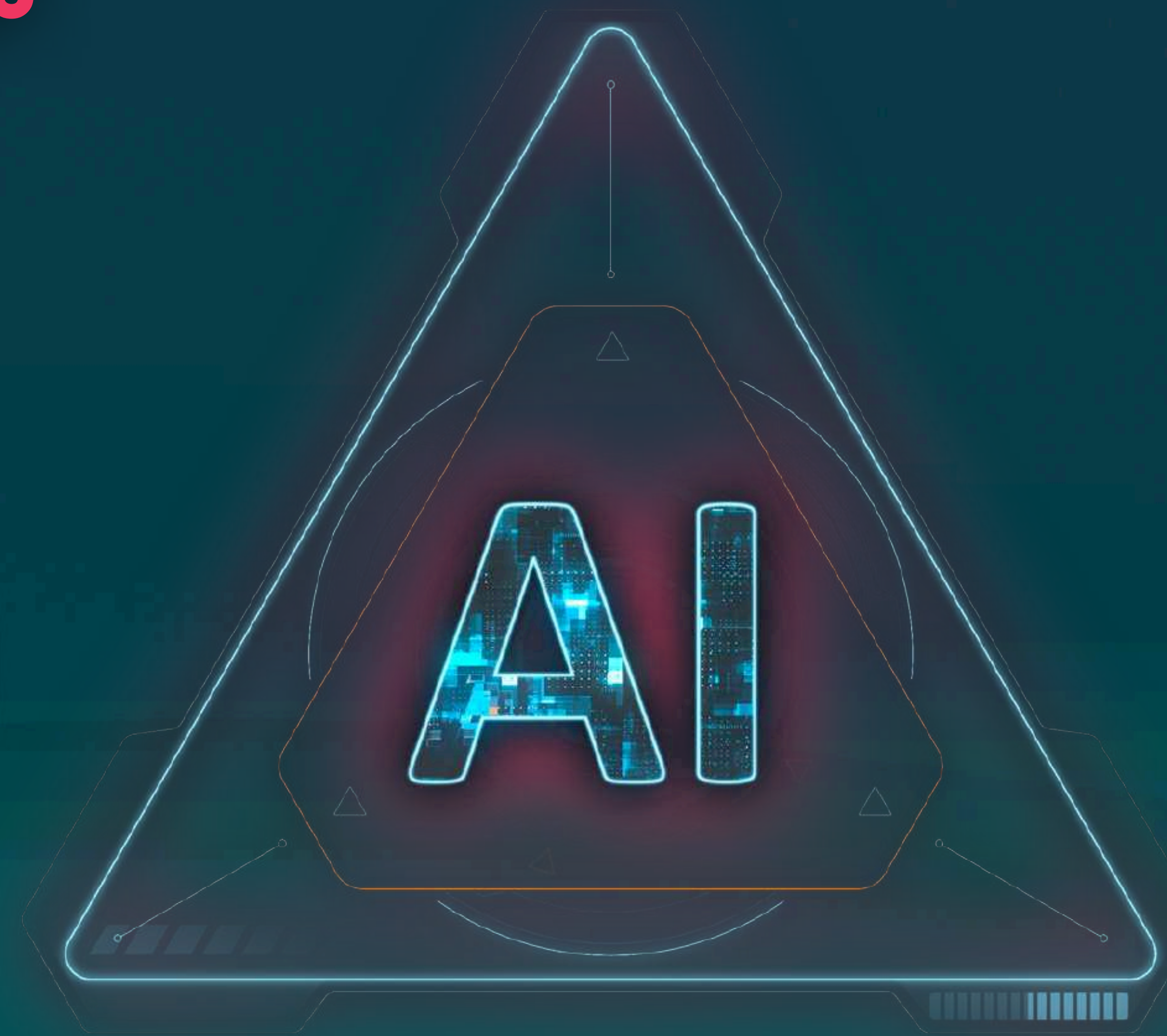
## Outdated Economic Logic

**PROFIT**  
**GROWTH**



PEOPLE  
PLANET  
PURPOSE  
PROSPERITY

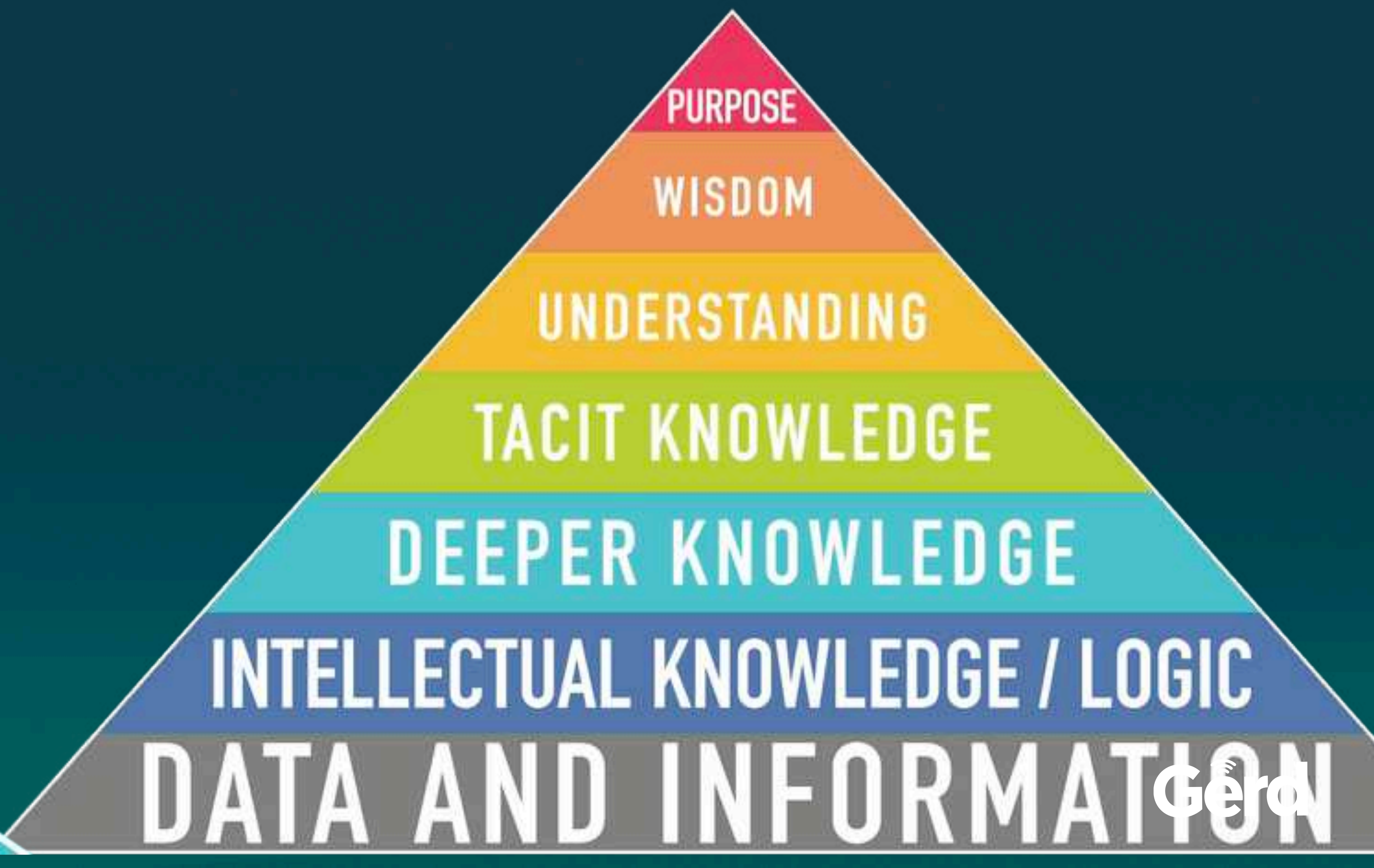
## Future-Fit Economic Logic





# Future-Fit Education & Learning??

PEOPLE  
PLANET  
PURPOSE  
PROSPERITY







# HEART?

The Past: Augmenting our Muscles

Now: AI Augmenting our Brains

Soon: AI Simulating our Brains. BEING our Brains?



**Sam Altman, CEO, OpenAI:**

**“The coming change will center around the  
most impressive of human capabilities:  
THE PHENOMENAL ABILITY TO THINK,  
CREATE, UNDERSTAND, AND REASON”**

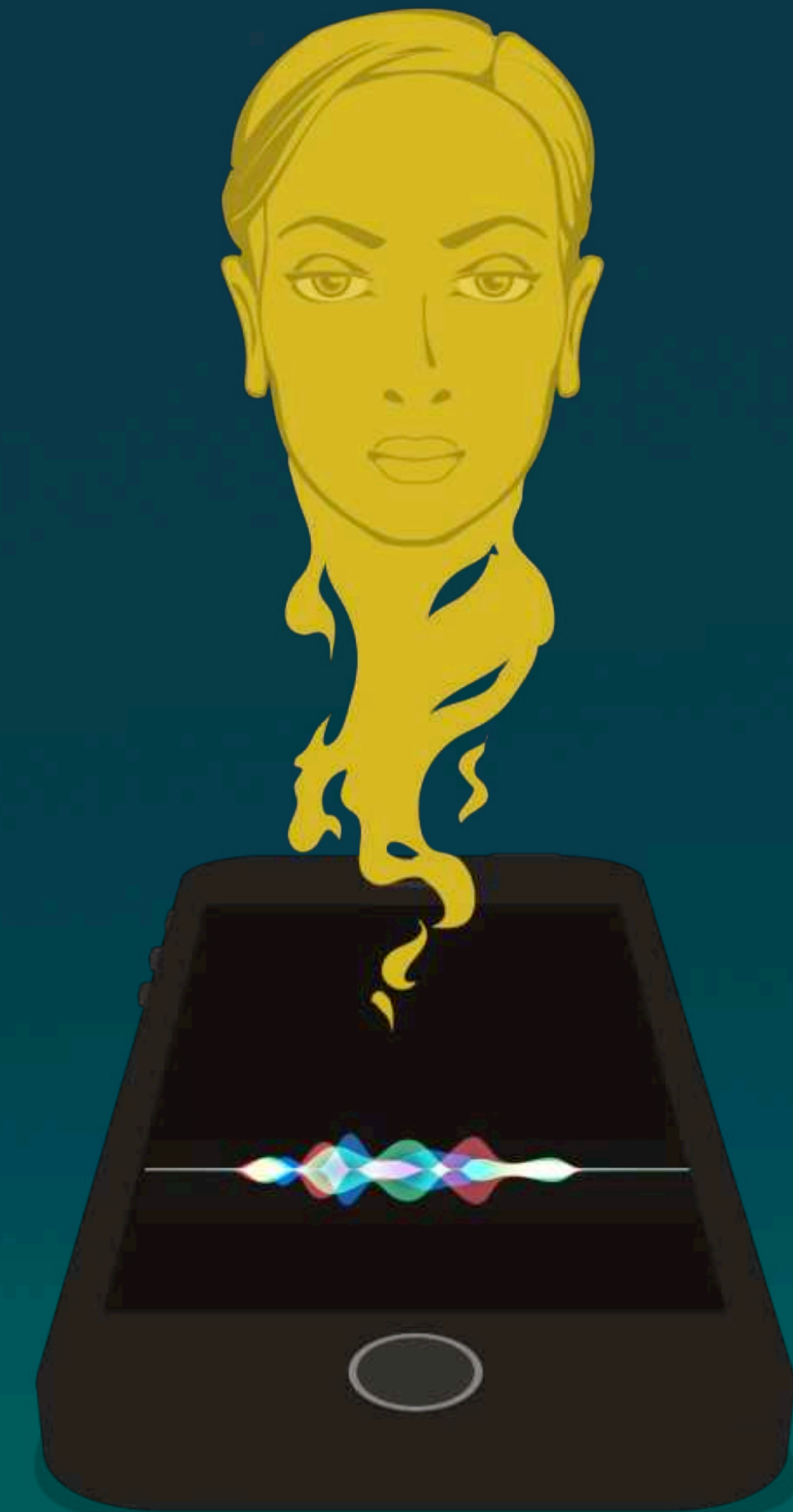
Bladerunner (1982)



**Artificial General Intelligence**

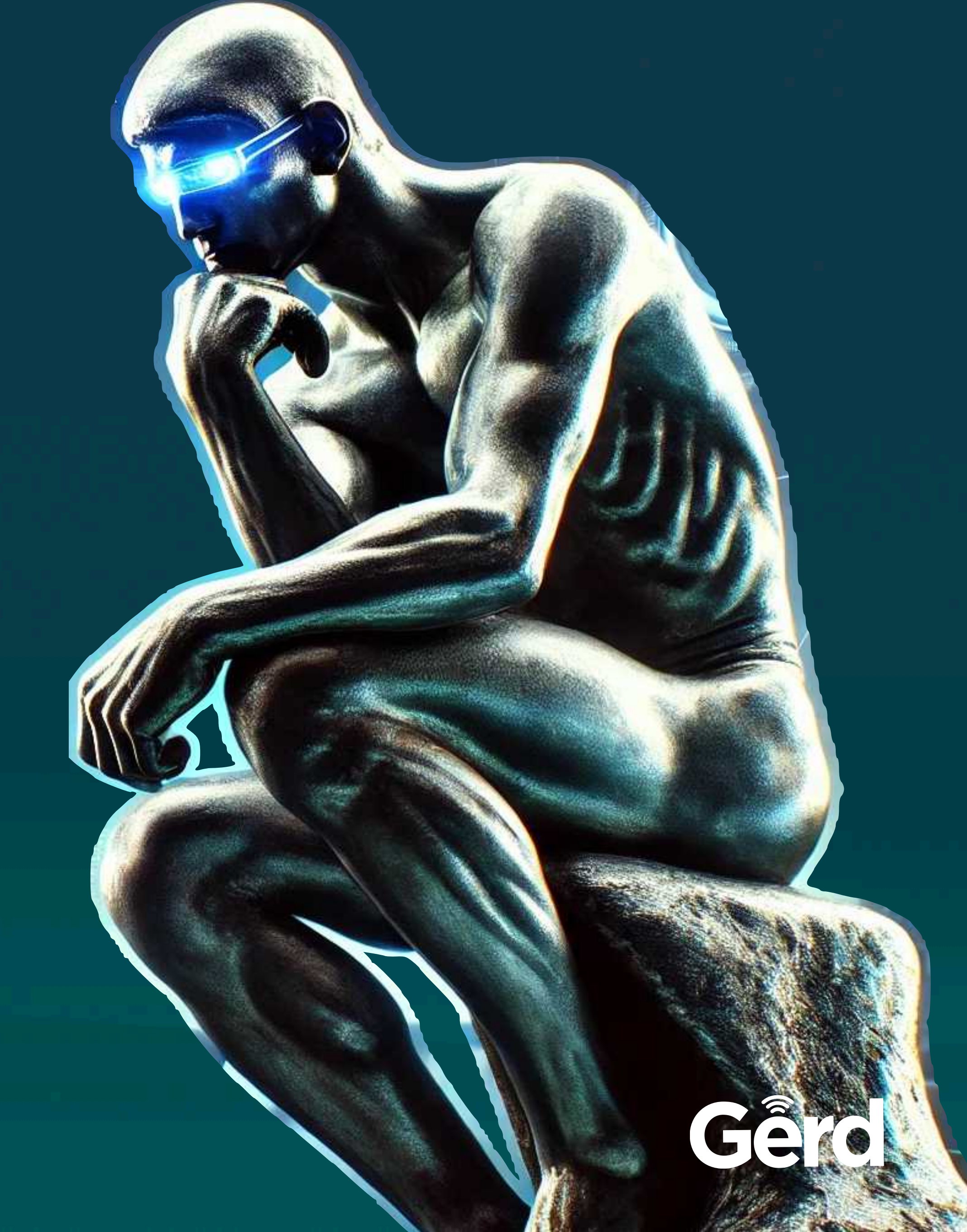
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STATE-OF-THE-ART AI PERFORMANCE  
RELATIVE TO HUMAN PERFORMANCE

# “Generate Savants”

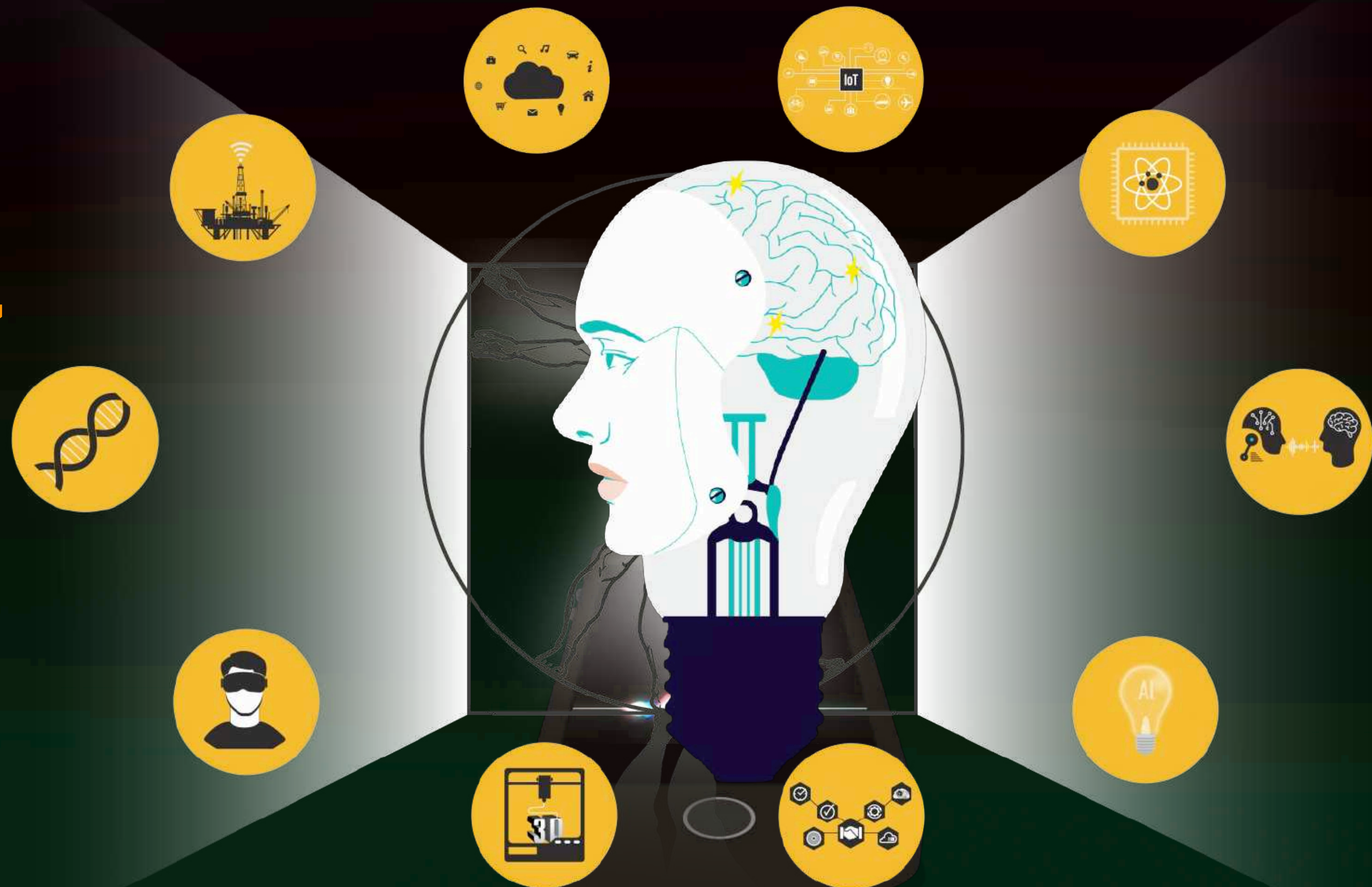


@AiBreakfast via X

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# Eric Schmidt

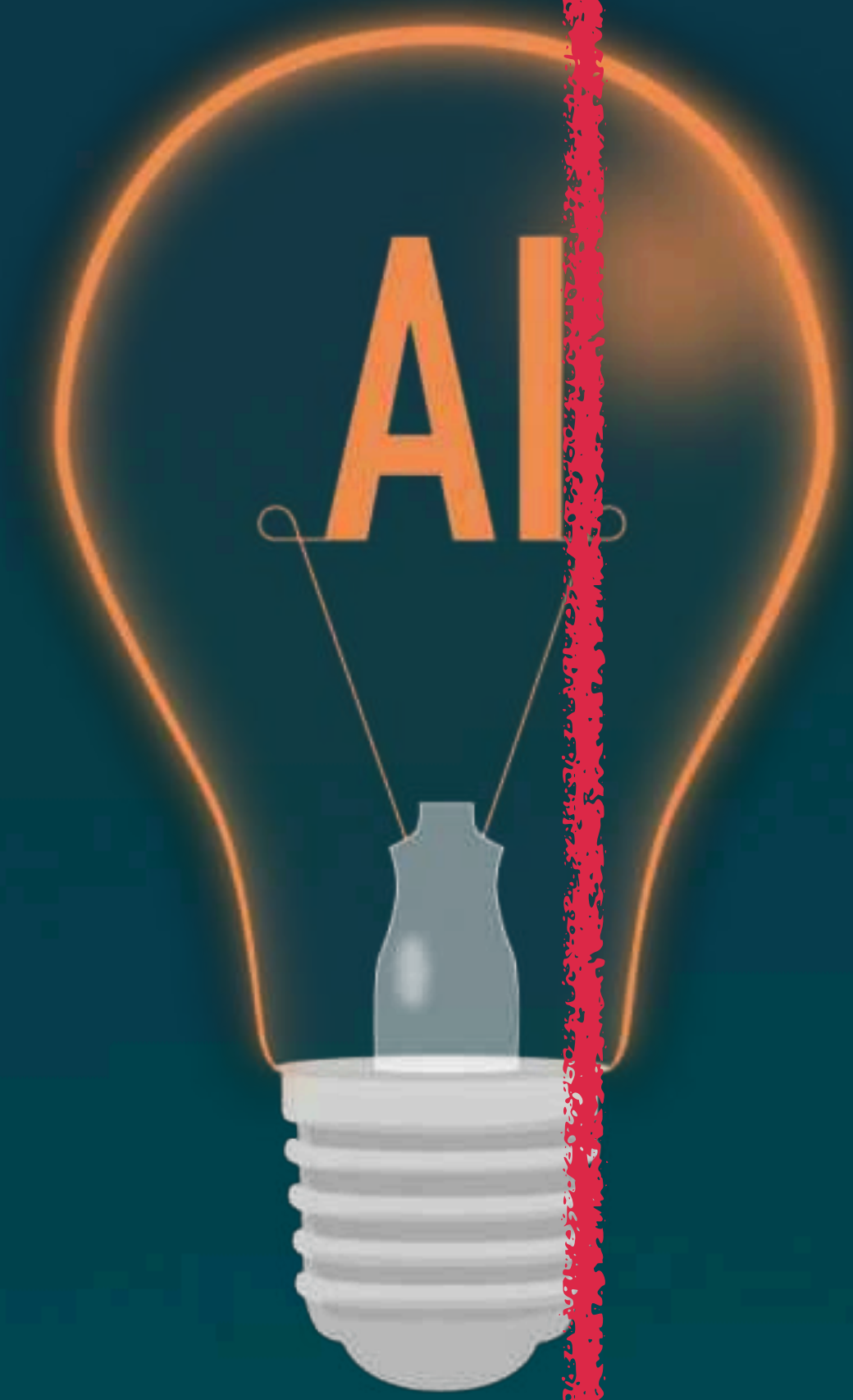


AI CAN SAVE HUMANITY—OR  
END IT *The Atlantic*

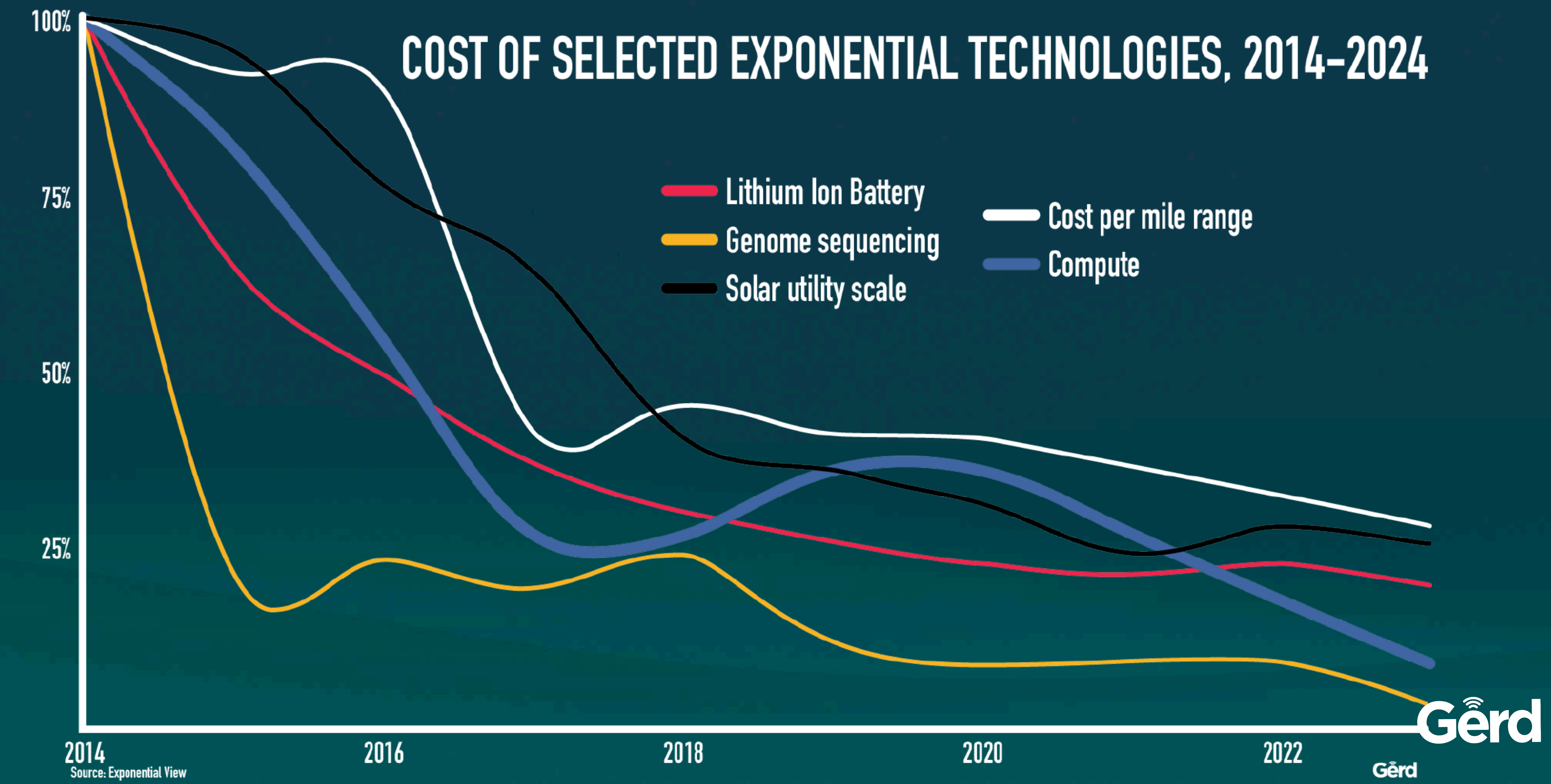
The age of *Homo technicus* could generate profound intellectual advances and solutions to our gravest problems. But first we need to ensure that it doesn't kill us off.

By Henry A. Kissinger, Eric Schmidt, and Craig Mundie





# Homo Technicus







How AI Could Save (Not Destroy) Education | Sal Khan | TED

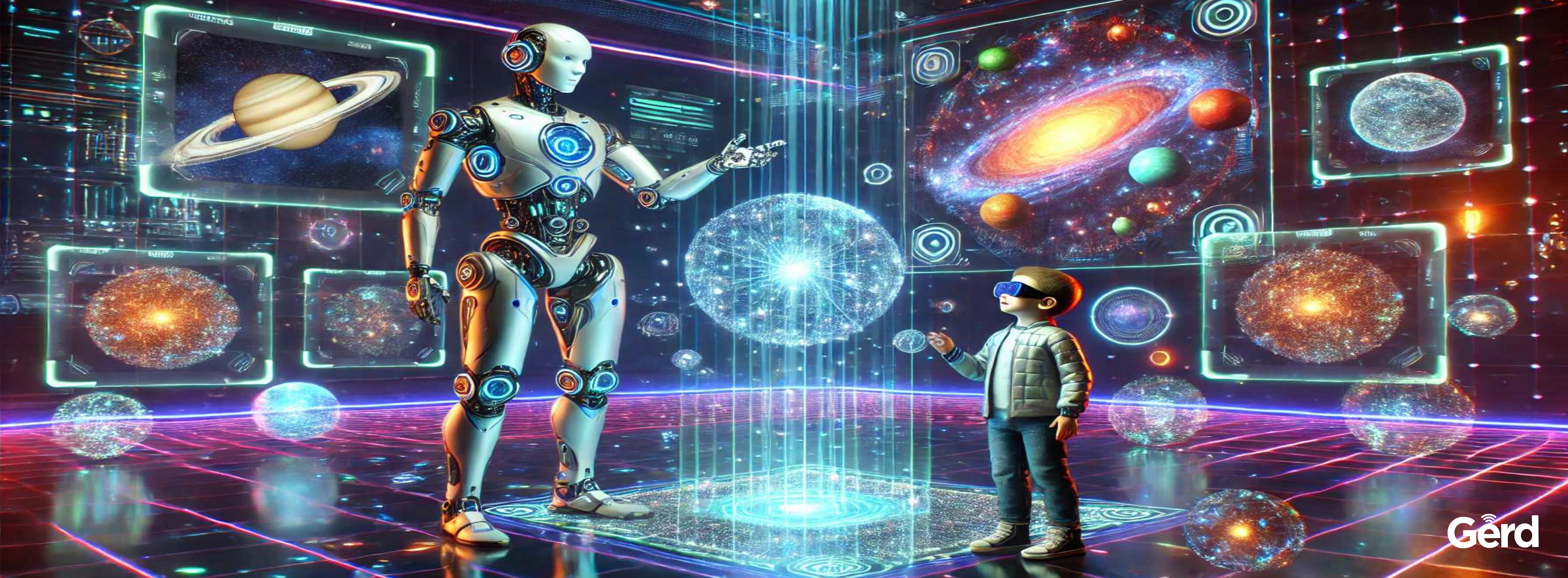




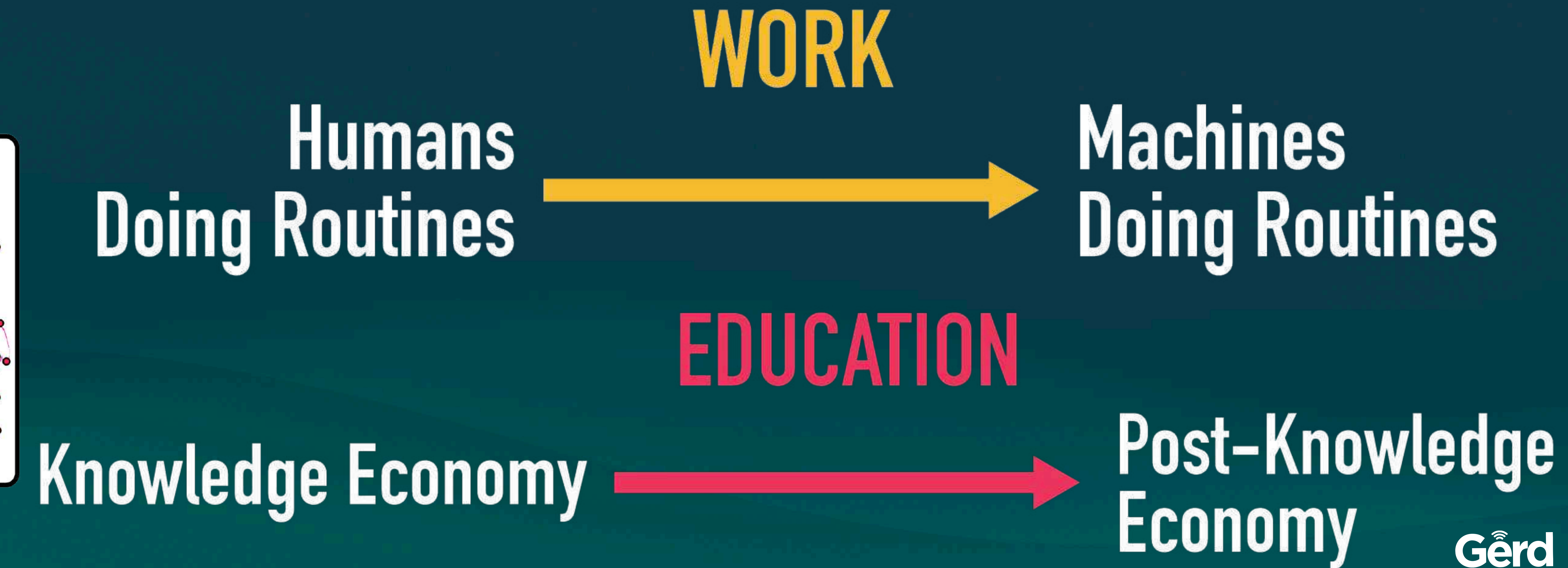
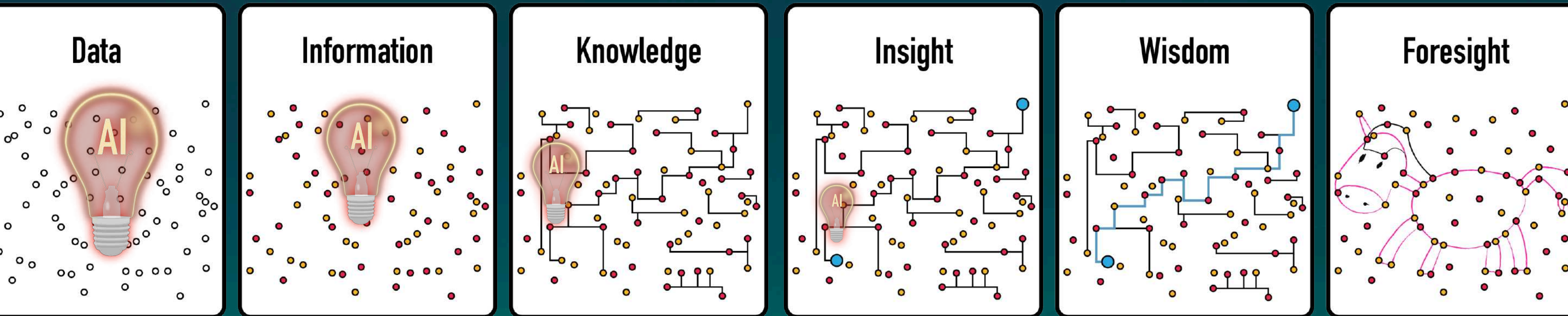
# 'THE MACHINE' AT THE CORE OF LEARNING?













## EXPLICIT KNOWLEDGE



Explicit Knowledge is knowledge that can easily be expressed, codified, and recorded so it can be shared



Objective, logical and technical



Codified



Easily transferable



It can be recorded and stored in physical/electronic form

Source: Document360.com

## TACIT KNOWLEDGE

Tacit Knowledge is knowledge that cannot be expressed easily and often acquired from personal experience



Subjective, cognitive and experiential



Non-codified



Difficult to transfer - often requires face-to-face interaction and teaching



Can't be recorded or stored



# Knowledge Work

Gêrd

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Artificial  
Intelligence  
loading...

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# Knowledge Work

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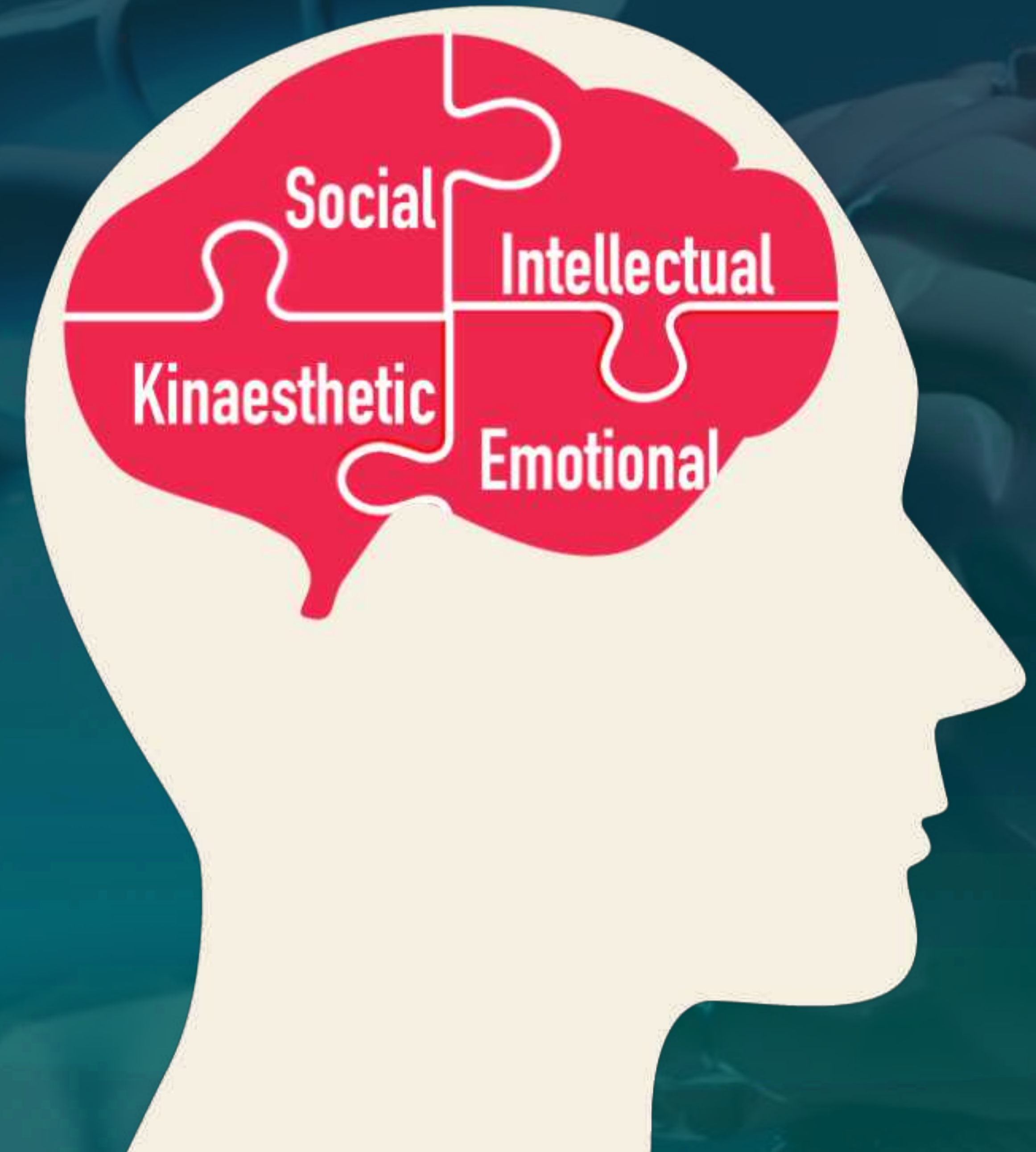
“Let me remind you that information is not knowledge, and knowledge is not wisdom. Each grows out of the other, and we need them all” (Arthur C. Clarke 1967)

Machine Intelligence  $\neq$  Human Intelligence

Knowledge  
Work

Gërd





Machines **DON'T** 'Think' or 'Feel'

Machines **DON'T** have hunches

Machines **DON'T** 'understand'

Machines **DON'T** imagine

Machines **DON'T** care

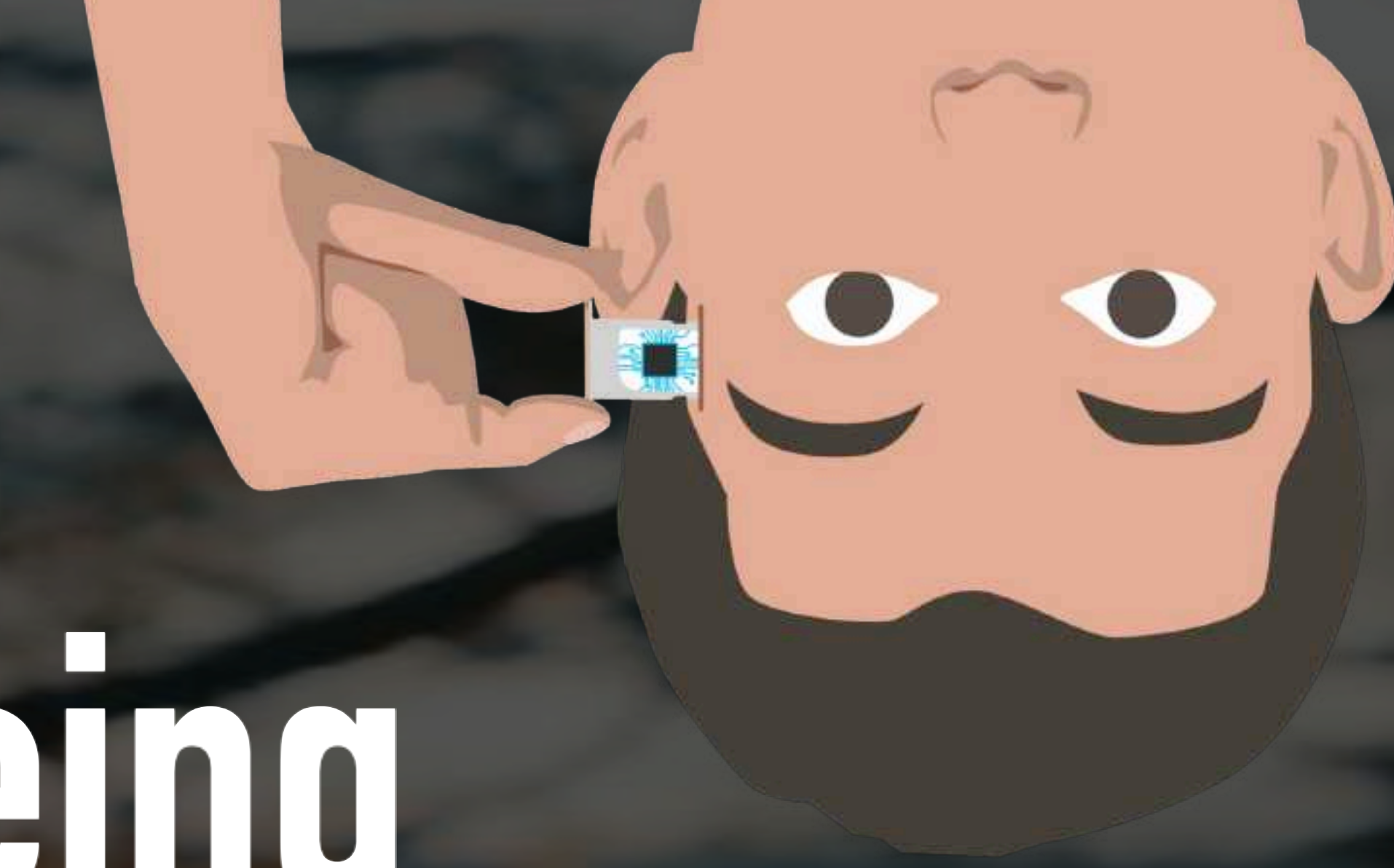






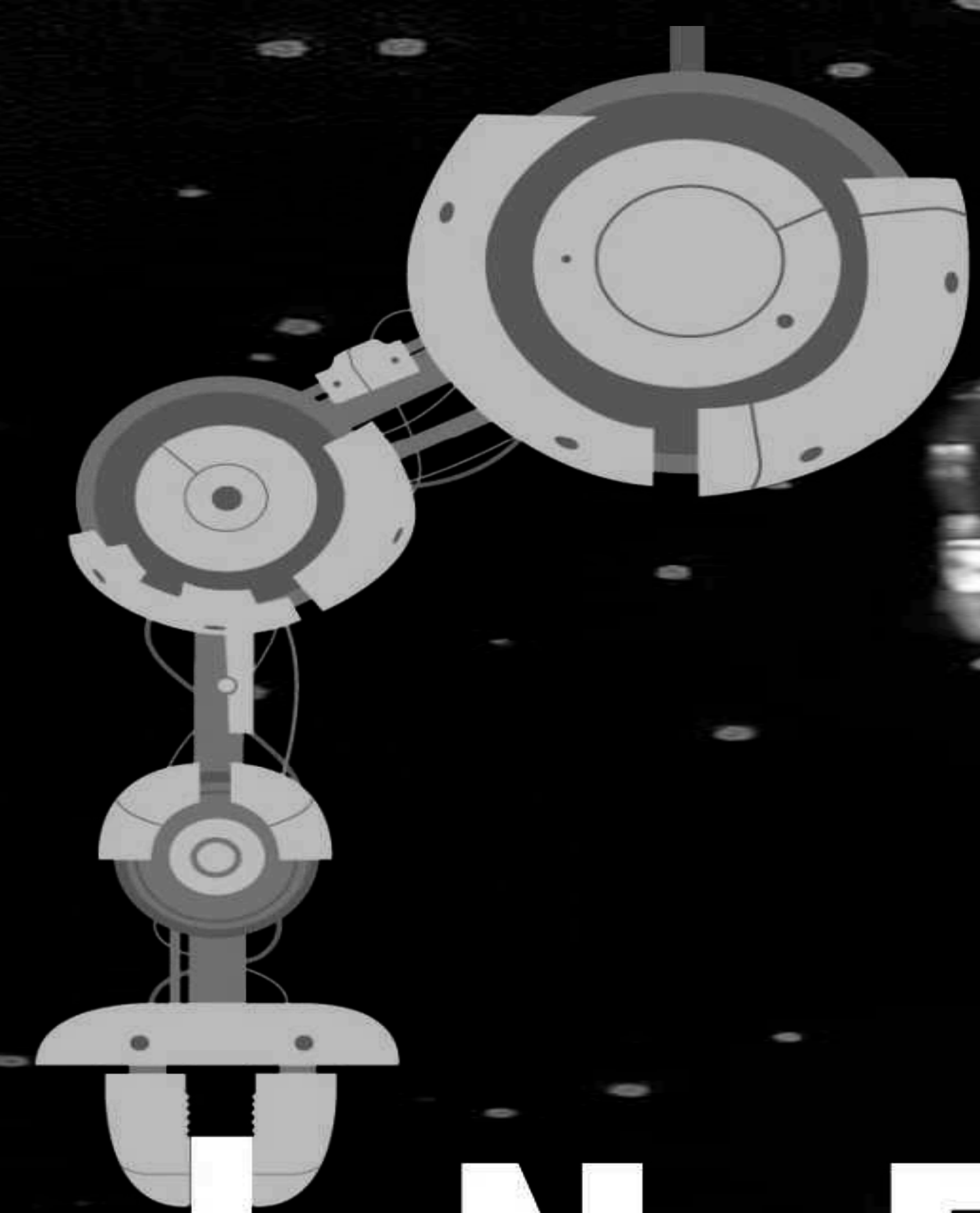
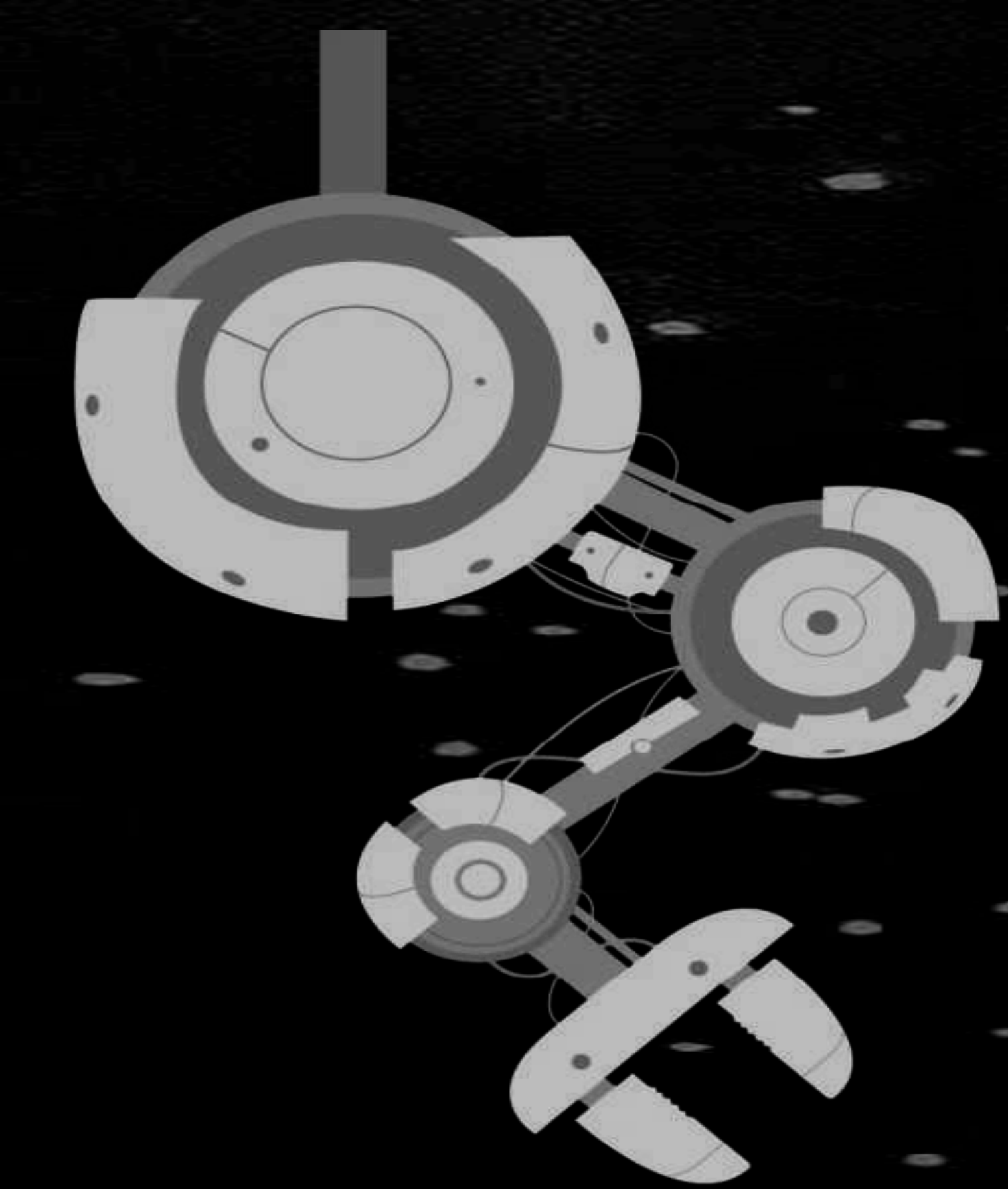
Technology alone is not enough.  
**INTELLIGENCE ALONE IS DANGEROUS.**  
**LEARNING TRANSCENDS DATA & INFORMATION.**





**EVERYTHING** that is worth paying attention to is the **result of the effort** being put into it, and the many **choices that must be made** while creating it





# R O U T I N E



Learning and Education that's **fit for the Future:**

- 1) Focus on the **human-only** traits and skills that Machines can't do well (or shouldn't) – beyond data, routines and binary knowledge
- 2) **Master** exponential technology tools
- 3) ALWAYS **KEEP THE HUMANS IN THE LOOP!**



# “The wolf you feed is the wolf that wins”



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## Thanks for your time and kind attention!