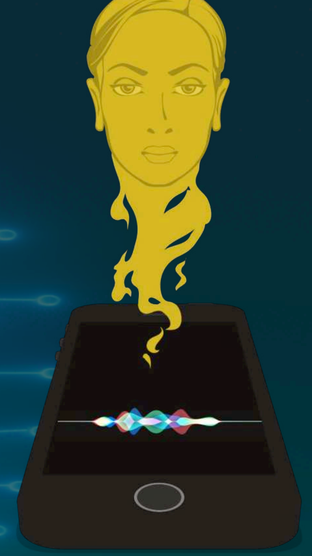
Humans and Machines: HI and AI

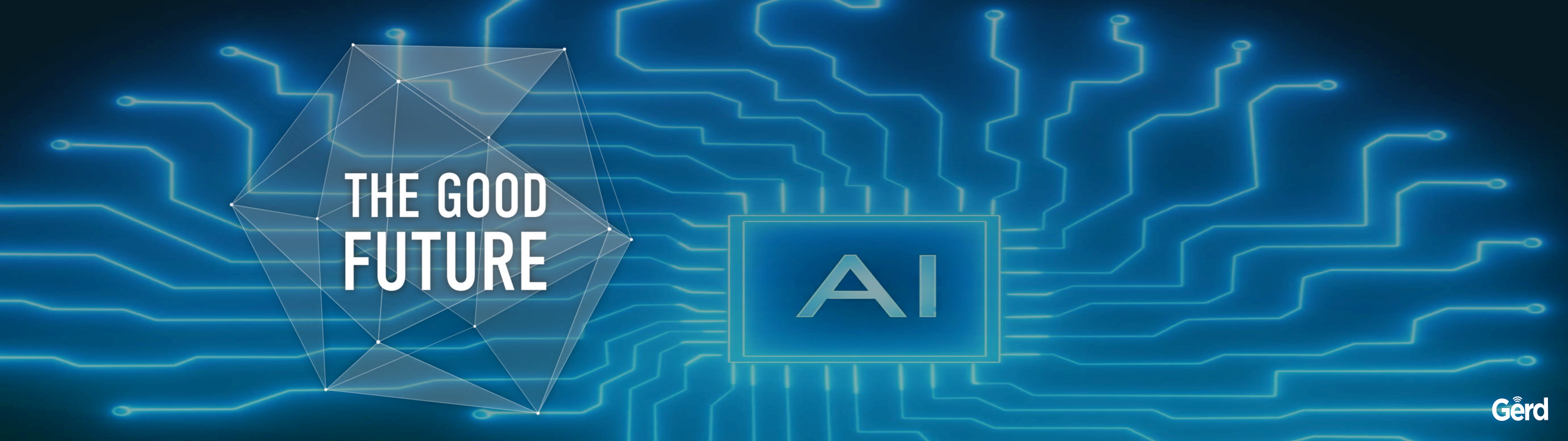


Gerd Leonhard, Futurist & Public Thinker

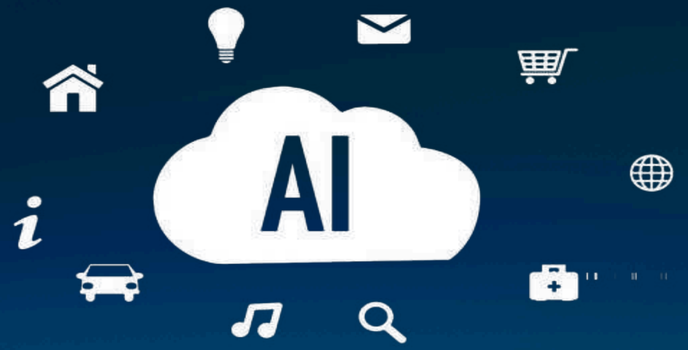
techvshuman.com @gleonhard gerdtube.com gerd.cloud futuristgerd.com

connected

Gerd


THE GOOD
FUTURE
AI
Gerd

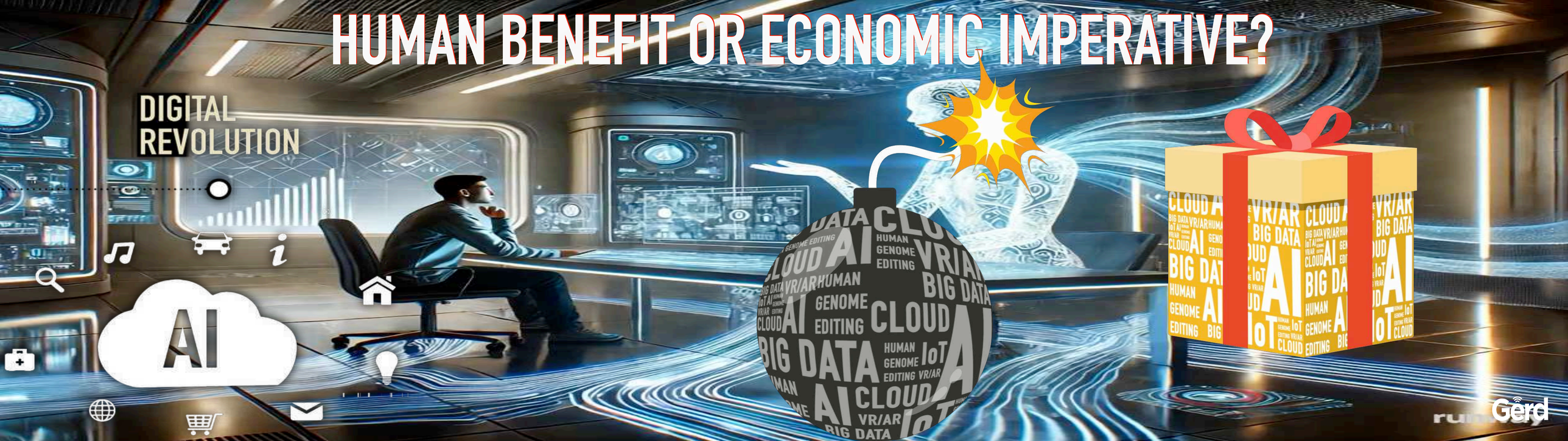
DIGITAL REVOLUTION

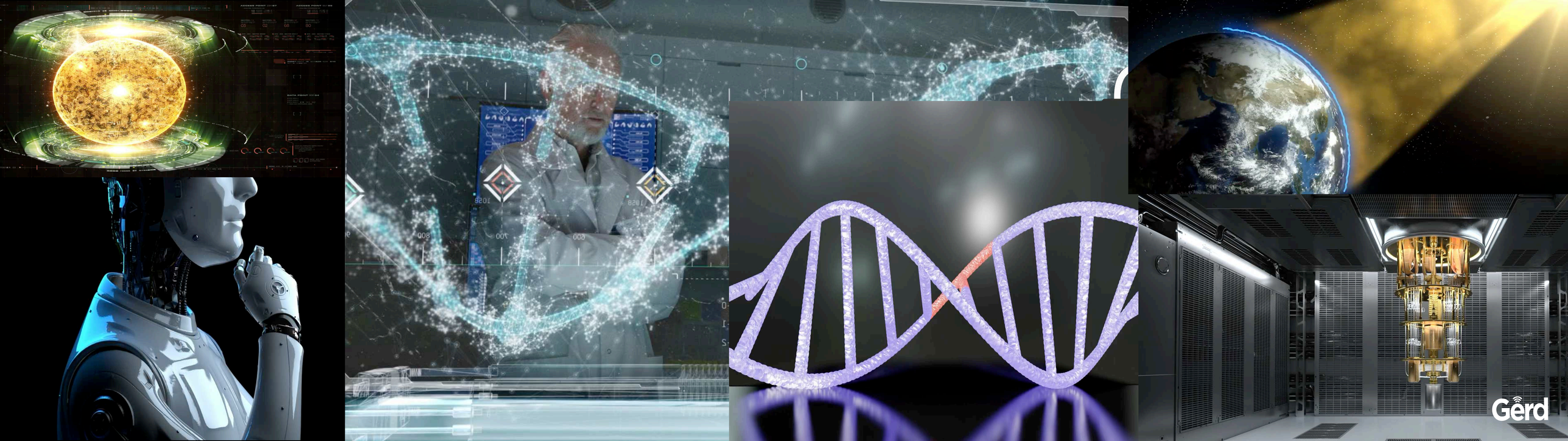


SUSTAINABILITY REVOLUTION

PURPOSE REVOLUTION

HUMAN BENEFIT OR ECONOMIC IMPERATIVE?



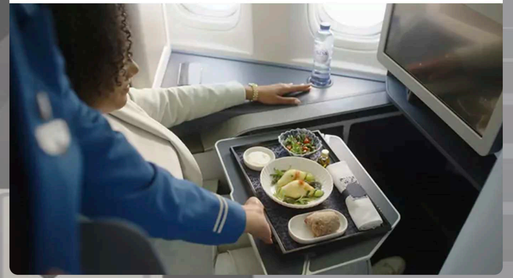

Gerd

PBS | NOVA
Find your stay
Read More
All iCloud
Gerd

Maximize heaven, prevent hell:)

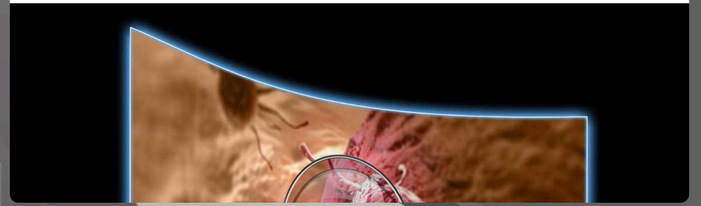
KLM continues investment in digital technology by deploying Artificial Intelligence to minimise food waste

Sustainability | Up in the Air // Feb 2024



96% Accuracy: Harvard Scientists Unveil Revolutionary ChatGPT-Like AI for Cancer Diagnosis

October 17, 2024



Google's DeepMind AI Gets Nobel Prize: Here's How It's Speeding Up Cancer Cure

Updated on 9 October 2024

How AI is Shaping the Future of Drug Discovery

Onome · June 14, 2024

AI KNOWLEDGE | 10 MINS READ

Not to sound dramatic, but AI drug discovery is now a big deal in the field of healthcare.

MOLECULAR BIOLOGY

How AI Revolutionized Protein Science, but Didn't End It

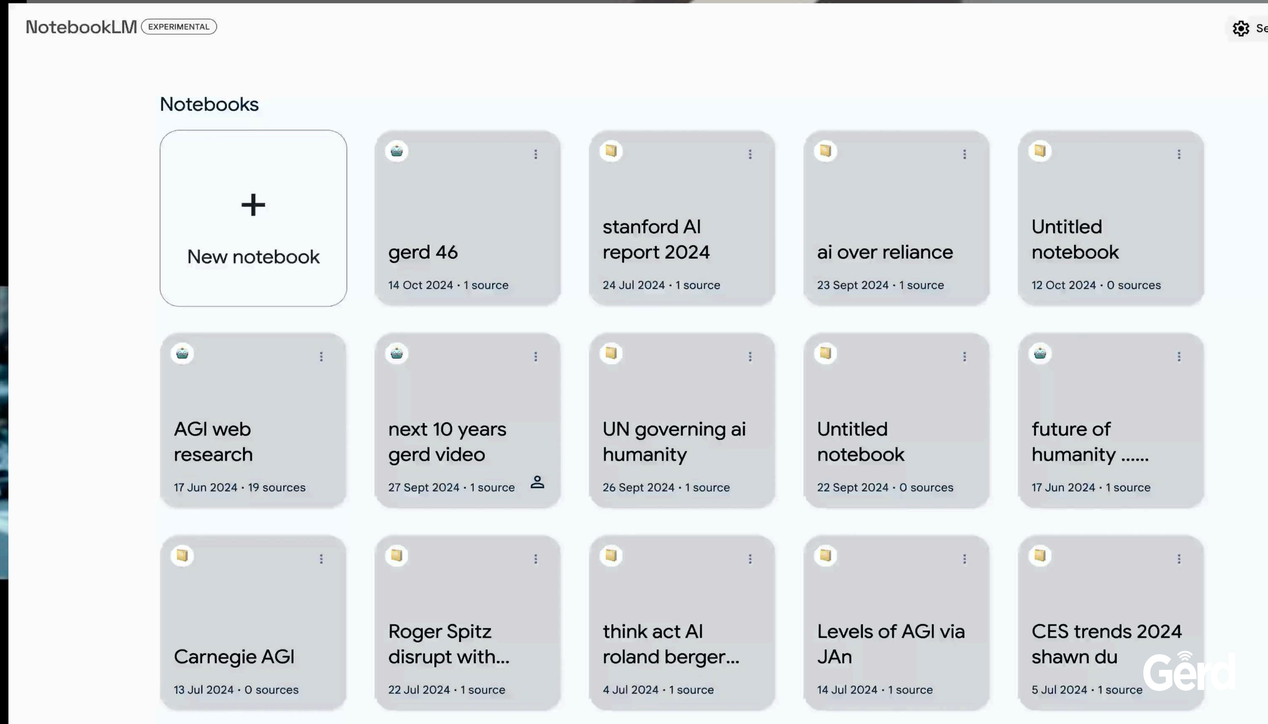
Three years ago, Google's AlphaFold pulled off the biggest artificial intelligence breakthrough in science to date, accelerating molecular research and kindling deep questions about why we do science.

EMERGING TECHNOLOGIES

9 ways AI is helping tackle climate change

Feb 12, 2024

Reply to Movie Clip's comment
make alien video please
TEDx Clu
Rask.ai
Generated by Sora, OpenAI's video model


NotebookLM EXPERIMENTAL
Notebooks
New notebook
gerd 46
14 Oct 2024 · 1 source
stanford AI report 2024
24 Jul 2024 · 1 source
ai over reliance
23 Sept 2024 · 1 source
Untitled notebook
12 Oct 2024 · 0 sources
AGI web research
17 Jun 2024 · 19 sources
next 10 years gerd video
27 Sept 2024 · 1 source
UN governing ai humanity
26 Sept 2024 · 1 source
Untitled notebook
22 Sept 2024 · 0 sources
future of humanity .....
17 Jun 2024 · 1 source
Carnegie AGI
13 Jul 2024 · 0 sources
Roger Spitz disrupt with...
22 Jul 2024 · 1 source
think act AI roland berger...
4 Jul 2024 · 1 source
Levels of AGI via JAn
14 Jul 2024 · 1 source
CES trends 2024 shawn du
5 Jul 2024 · 1 source
Gerd

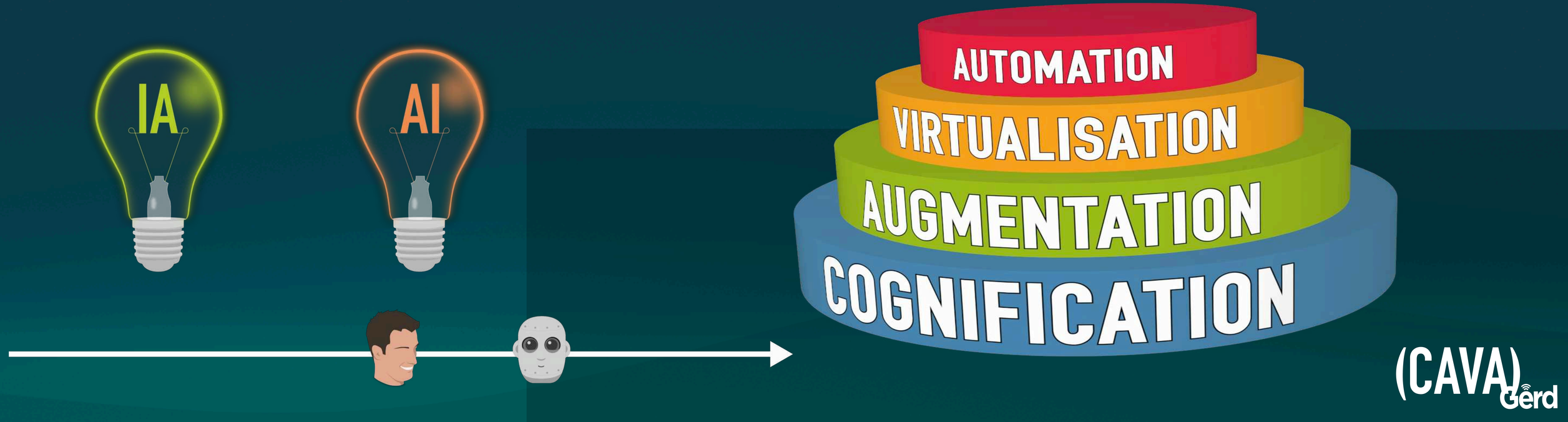
AI: “Computer systems that turn information and data into **KNOWLEDGE**”

“The coming change will center around the most impressive of human capabilities: the phenomenal ability to **think, create, understand, and reason**”

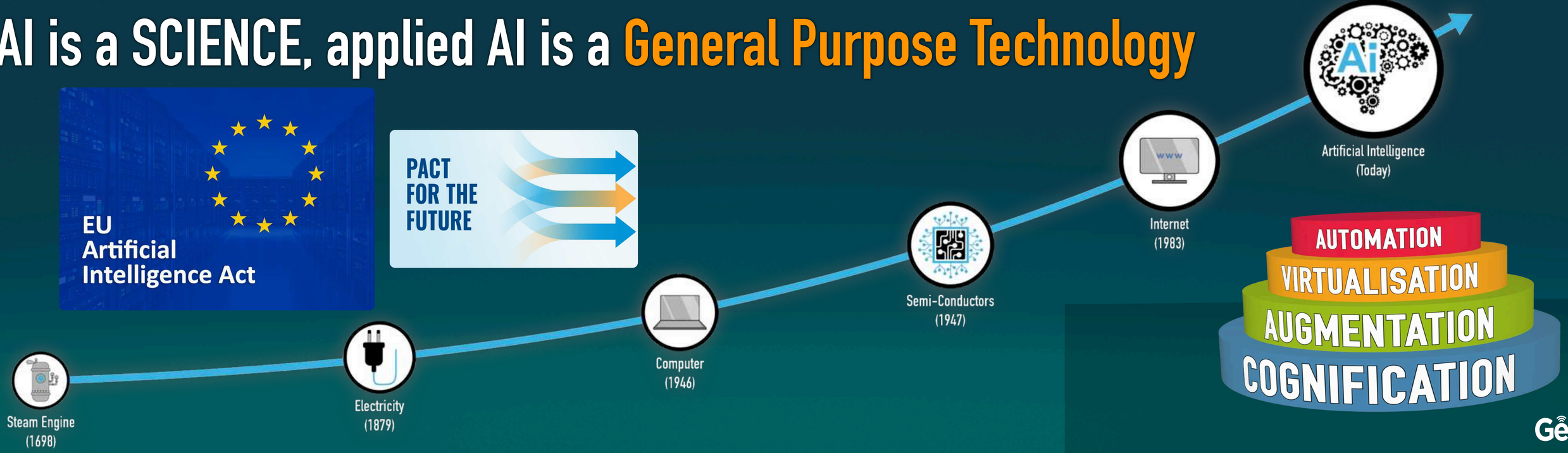
SIR DEMIS HASSABIS, CEO, DEEPMIND

SAM ALTMANN, CEO, OPENAI

Gerd

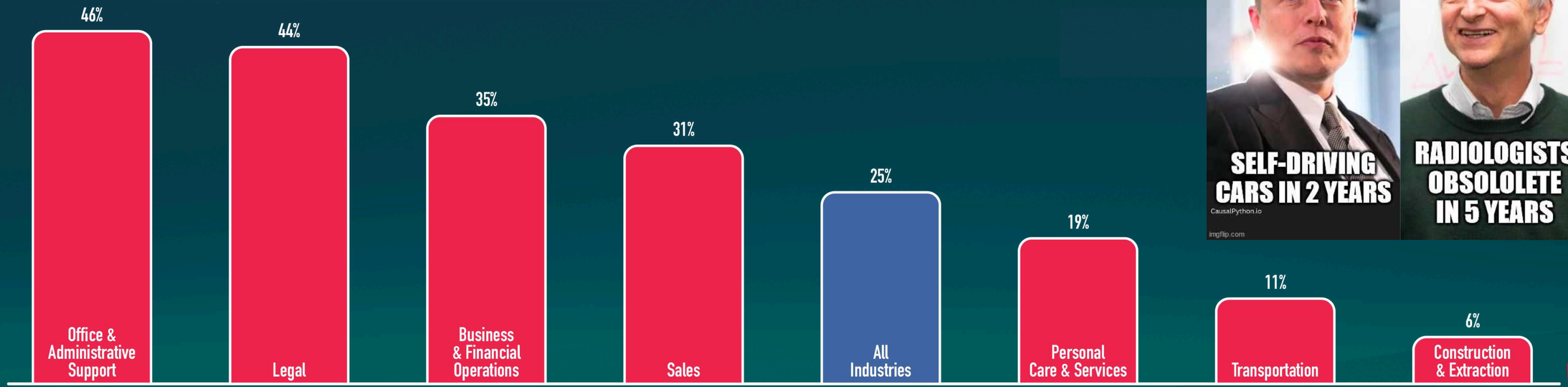

IA
AI
AUTOMATION
VIRTUALISATION
AUGMENTATION
COGNIFICATION
(CAVA)
Gerd

AI is a SCIENCE, applied AI is a General Purpose Technology



Gerd

SHARE OF WORK THAT CAN BE AUTOMATED BY AI
BY INDUSTRY



Source: Scott Galloway / Goldman Sachs

AUTOMATION Gerd

Automation: Don't mistake a clear view for a short distance!

(Paul Saffo)

Generative AI: The difference between ‘good enough’ and ‘really good’ remains HUGE

CONTEXT ?
MEANING ?
CAUSALITY ?
AWARENESS ?
COMMON SENSE ?

Gerd

~~Consciousness~~

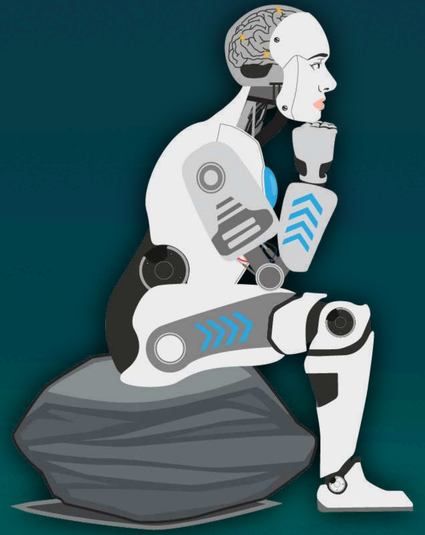
~~Human Agency~~

~~Reasoning~~

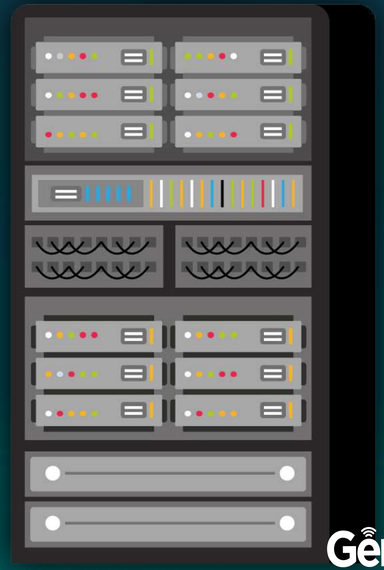
Logic
Probability
Simulation
Explicit Knowledge

ChatGPT

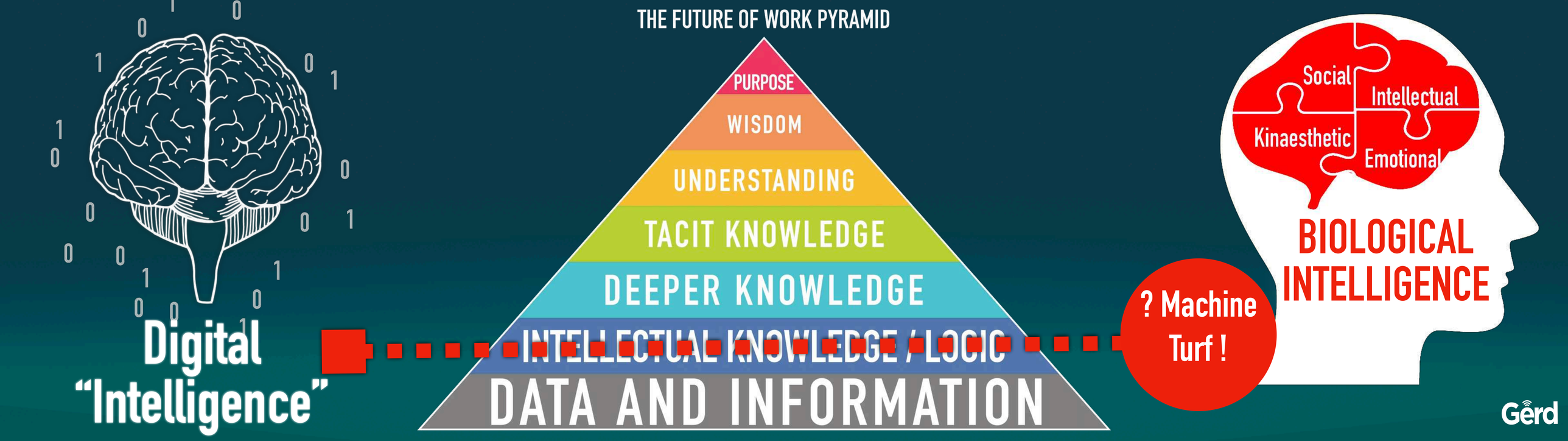
What People Think It Looks Like



What It Actually Looks Like



Gerd

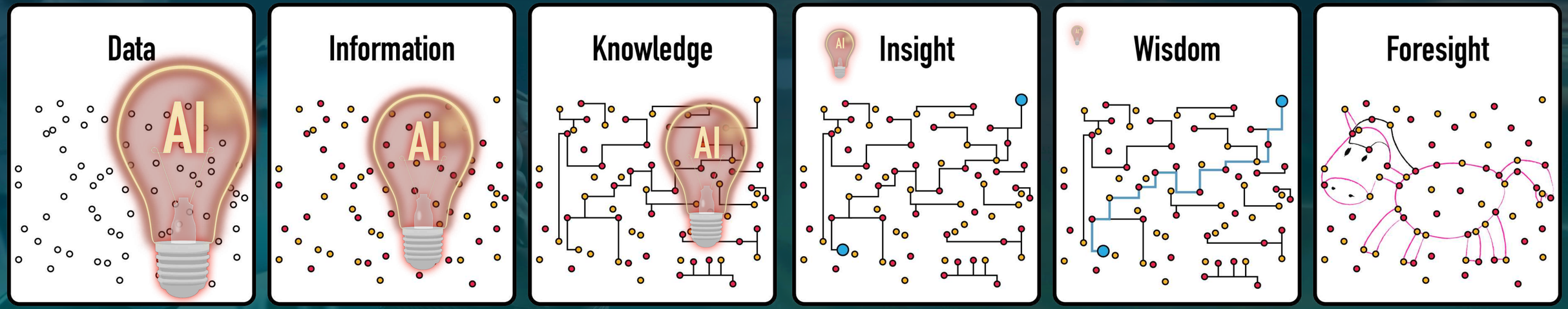

THE FUTURE OF WORK PYRAMID
PURPOSE
WISDOM
UNDERSTANDING
TACIT KNOWLEDGE
DEEPER KNOWLEDGE
INTELLECTUAL KNOWLEDGE / LOGIC
DATA AND INFORMATION
Digital "Intelligence"
? Machine Turf !
Social
Intellectual
Kinaesthetic
Emotional
BIOLOGICAL INTELLIGENCE
Gerd

Machines ≠ Humans

EXPLICIT KNOWLEDGE	VS.	TACIT KNOWLEDGE
Explicit Knowledge is knowledge that can easily be expressed, codified, and recorded so it can be shared	Definition	Tacit Knowledge is knowledge that cannot be expressed easily and often aquired from personal experience
Objective, logical and technical	Key Characteristics	Subjective, cognitive and experiential
Codified	Codified?	Non-codified
Easily transferable	Ease of Transfer	Difficult to transfer - often requires face-to-face interaction and teaching
It can be recorded and stored in physical/electronic form	Storage	Can't be recorded or stored

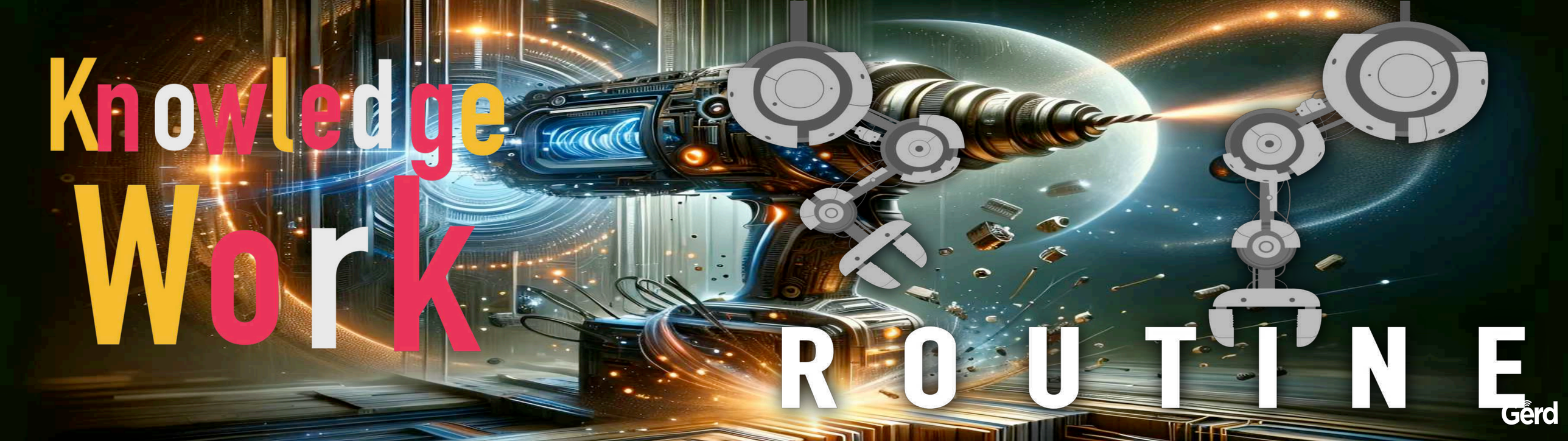
Source: Document360.com

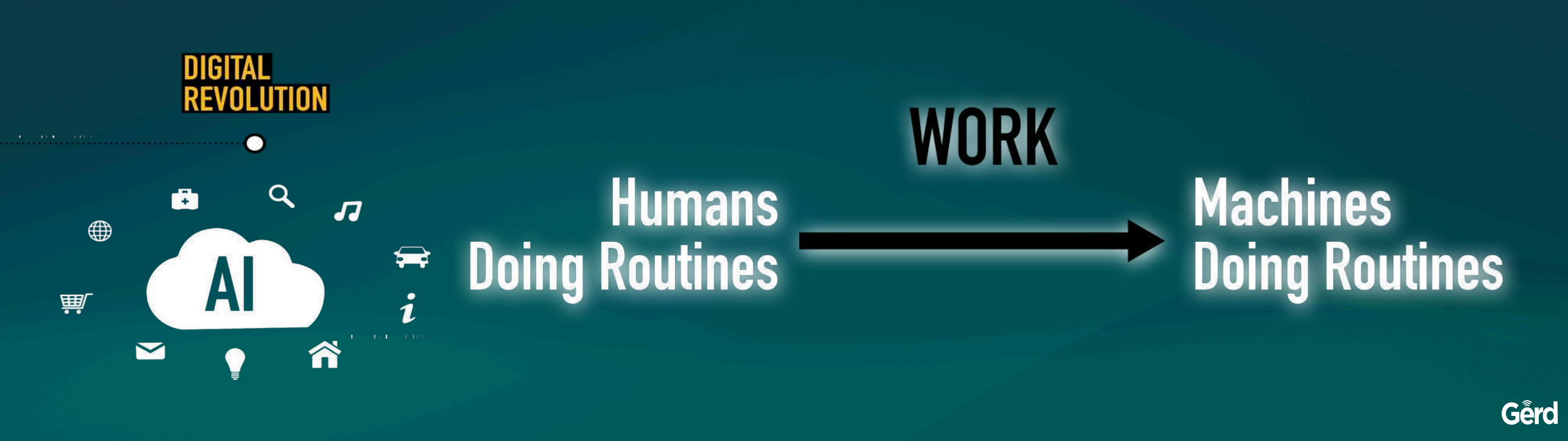
Gerd



Source: Twitter

Gerd


Knowledge
Work
ROUTINE
Gerd


DIGITAL REVOLUTION
AI
WORK
Humans Doing Routines
Machines Doing Routines
Gerd

Translating
Summarising
Researching
Fact-Checking
Drafting
Organizing
Collecting
Reminding
Ideating . . .

AI Agents

Gerd

AI* will only empower us to create 'The Good Future' if we leave outmoded economics behind

PROFIT
GROWTH

PEOPLE
PLANET
PURPOSE
PROSPERITY

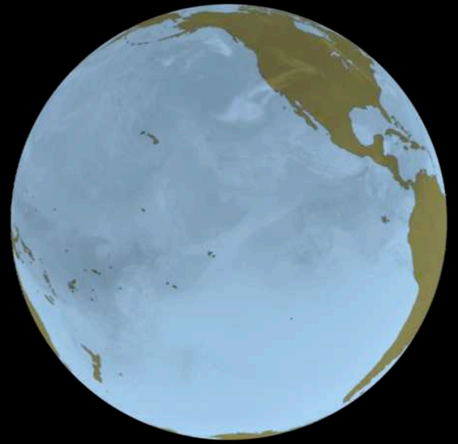
Gerd

Climate Failure | ~~AI Failure~~

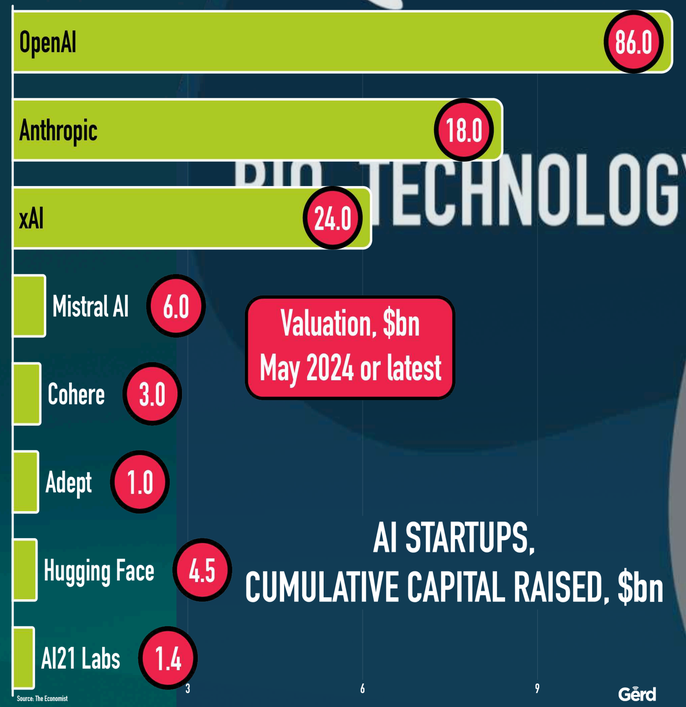
The United Nations Wants to Treat AI With the Same Urgency as Climate Change

A UN report proposes that the organization take a much more active role in the monitoring and oversight of AI.

PROFIT
GROWTH



Gerd



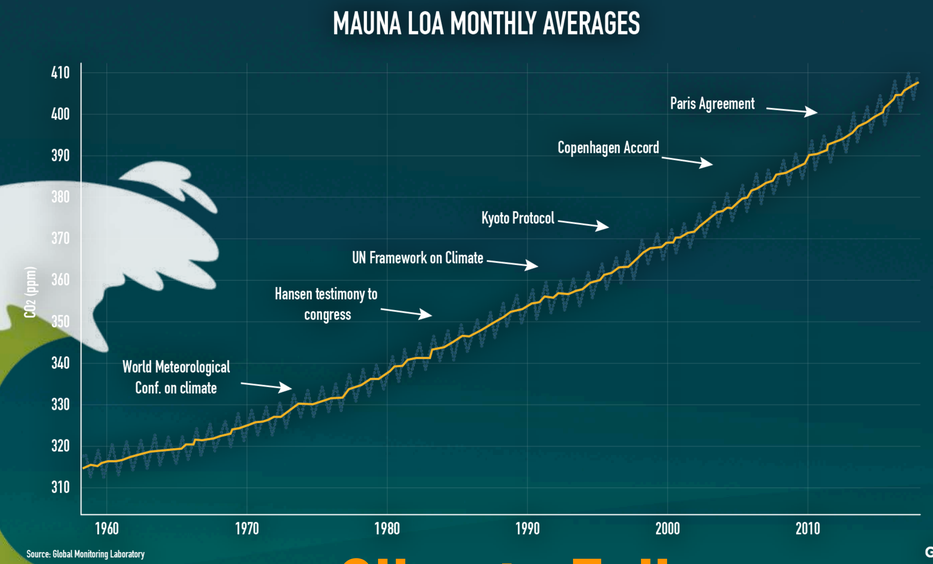
BIO TECHNOLOGY

Valuation, $bn
May 2024 or latest

AI STARTUPS,
CUMULATIVE CAPITAL RAISED, $bn

ARTIFICIAL INTELLIGENCE

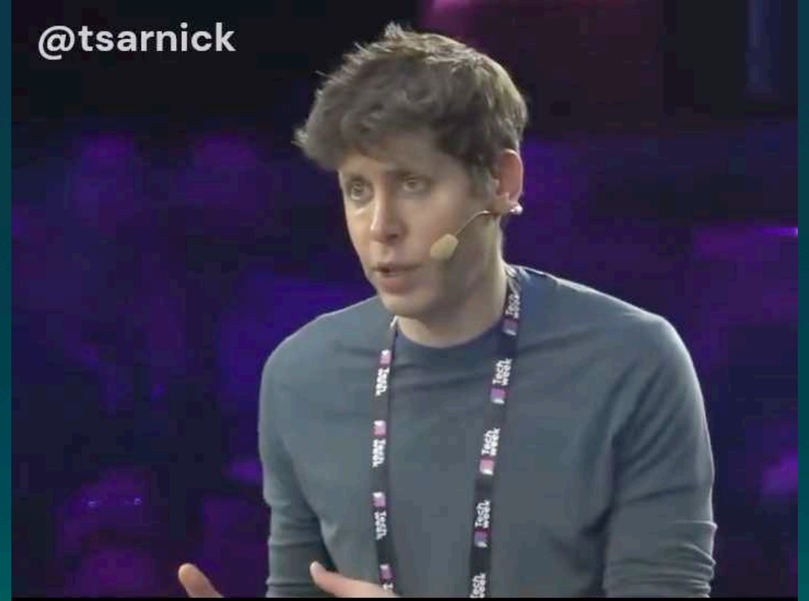
CLIMATE CHANGE



Climate Failure

Gerd

ABUNDANT ENERGY
ABUNDANT INTELLIGENCE

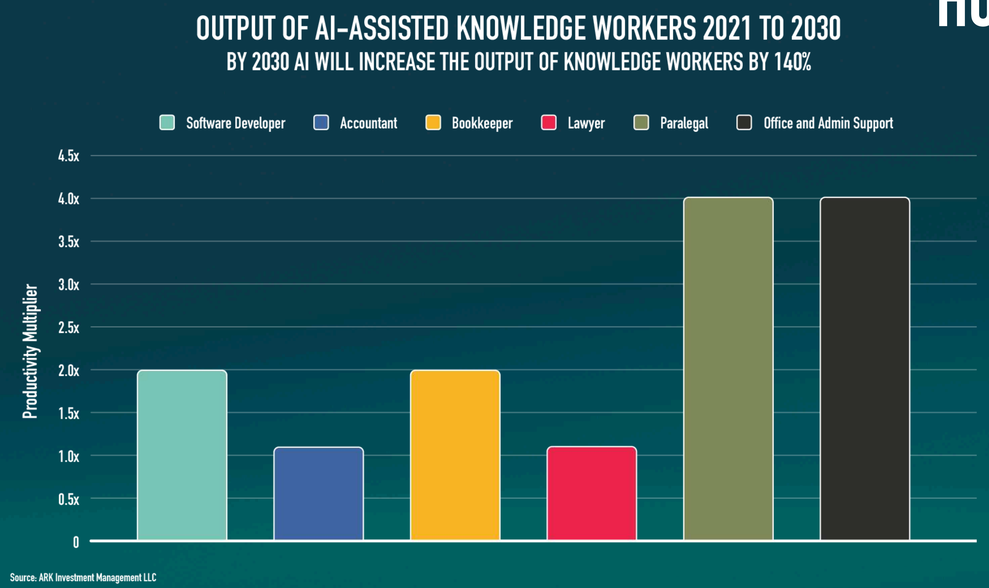


ARTIFICIAL INTELLIGENCE

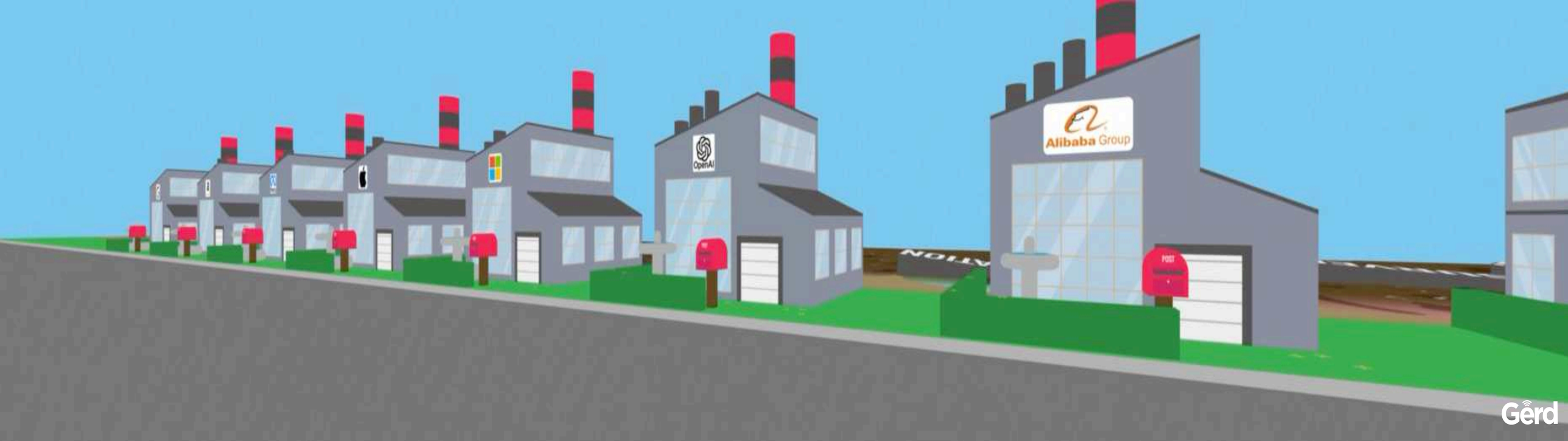
Tsarathustra @tsarnick · 12h

Sam Altman says abundant intelligence and abundant energy through technology will lead to prosperity for everyone and that the degrowth ideology is "one of the dumbest and most dangerous things we've had in a long time"

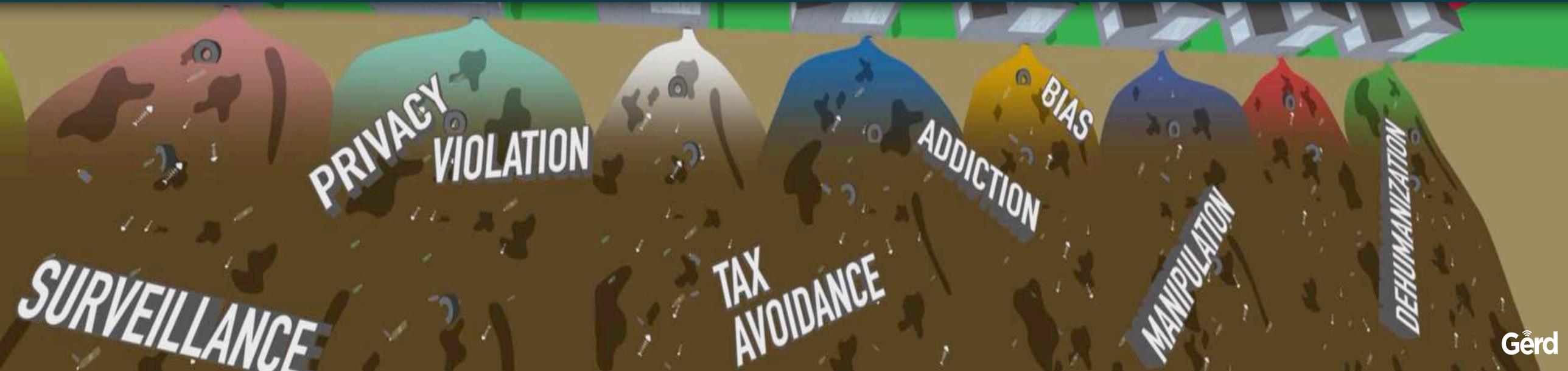
How would a dramatically AI-enhanced productivity of knowledge workers actually result in societal benefits across the board?



Gerd


OpenAI
Alibaba Group
POST
Gerd

We must start integrating the side-effects and externalities into all business models

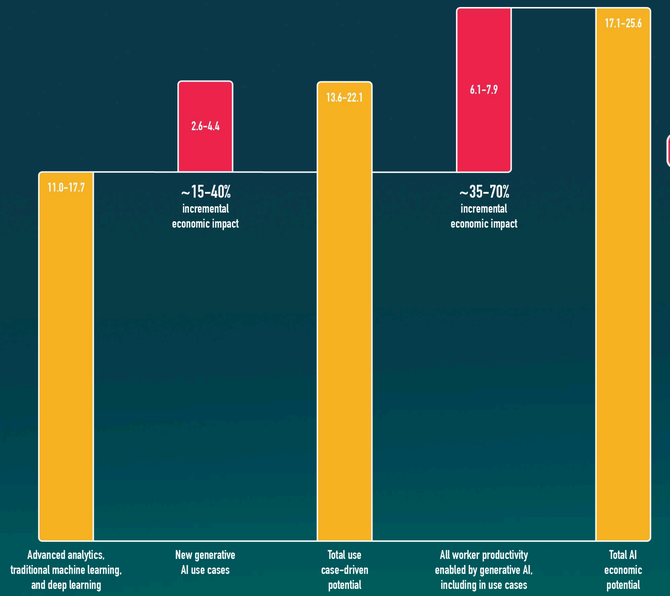


The Technocratic Oath

ETHICS is knowing the difference between doing what you have the right (or the power) to do and what is the RIGHT THING TO DO

Gerd

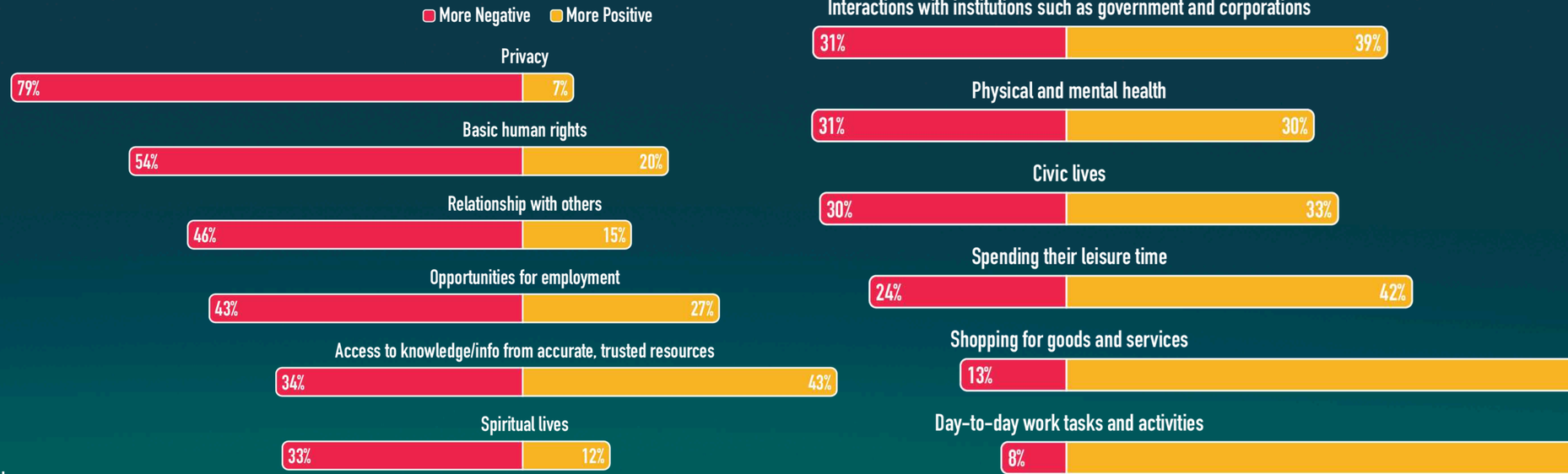
AI'S POTENTIAL IMPACT ON THE GLOBAL ECONOMY, $ TRILLION



Sources: Analytics Vidhya

Gerd

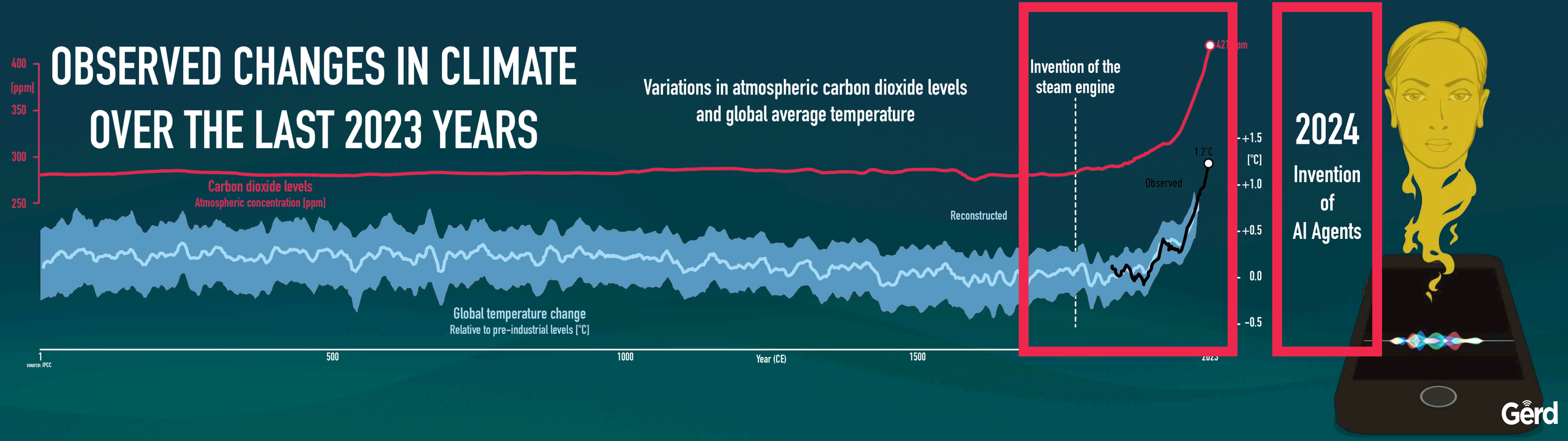
EXPERTS' VIEWS ON AI'S LEVEL OF IMPACT ON PEOPLE'S PERSONAL LIVES BY 2040

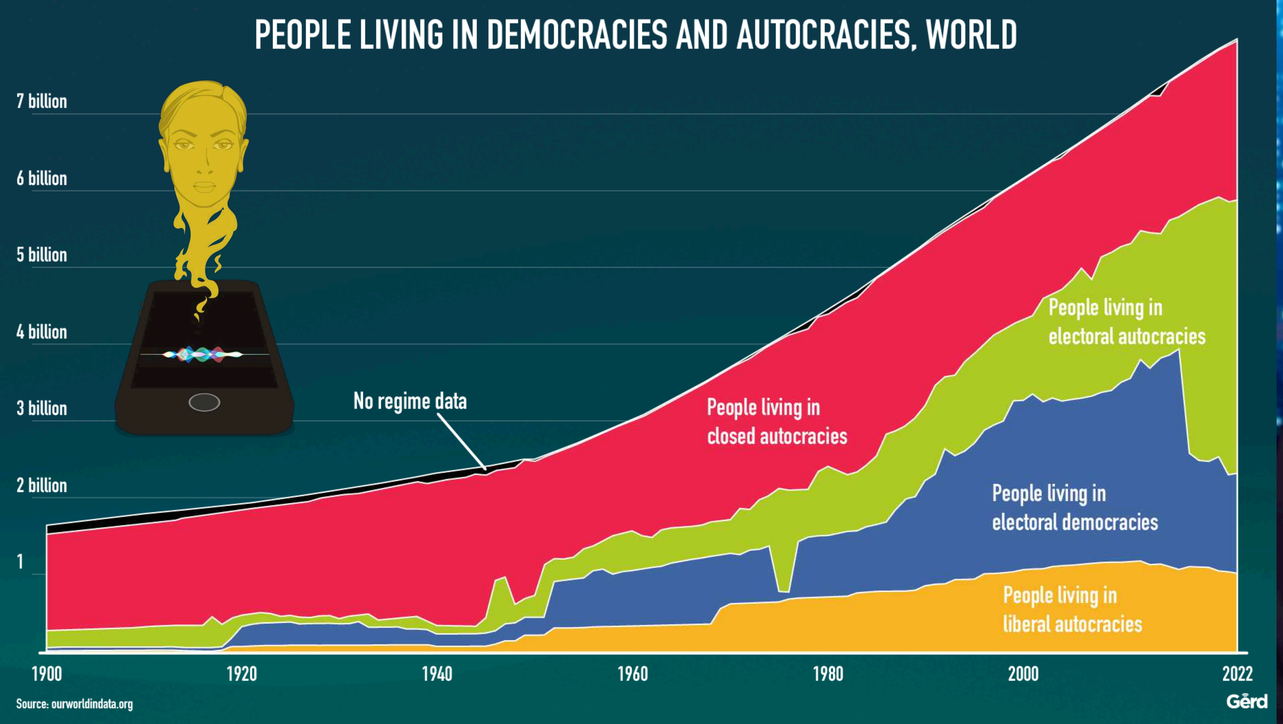


Source: Elon University canvassing of technology

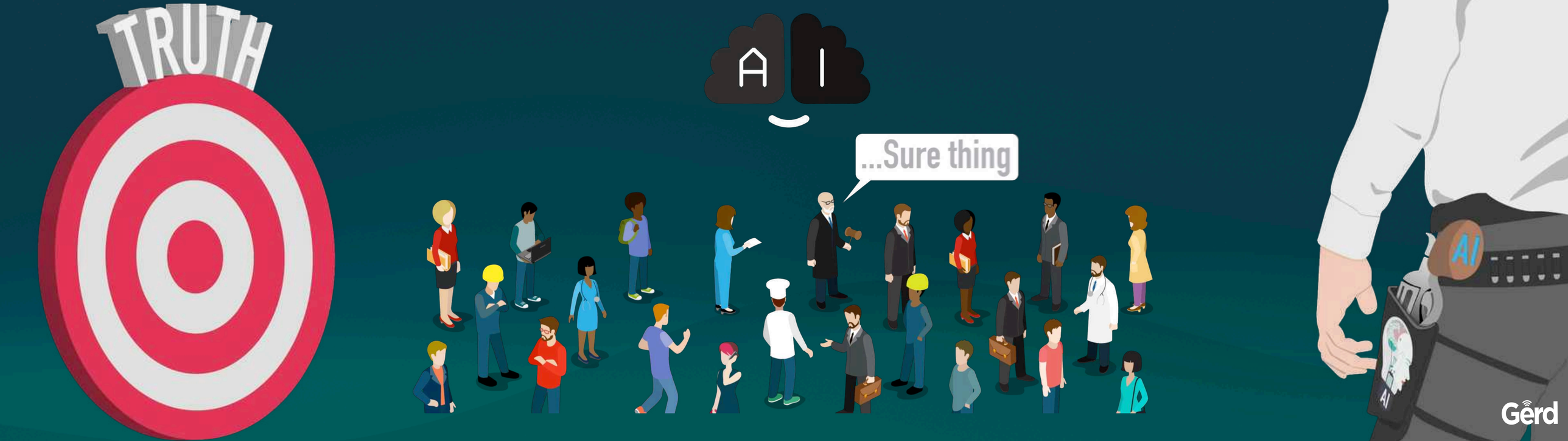
Gerd

OBSERVED CHANGES IN CLIMATE OVER THE LAST 2023 YEARS




PEOPLE LIVING IN DEMOCRACIES AND AUTOCRACIES, WORLD
7 billion
6 billion
5 billion
4 billion
3 billion
2 billion
1
No regime data
People living in closed autocracies
People living in electoral autocracies
People living in electoral democracies
People living in liberal autocracies
1900
1920
1940
1960
1980
2000
2022
Source: ourworldindata.org
Gerd

PBS
The problem is not with our
Amanpour&Co.
Gerd


TRUTH
AI
...Sure thing
AI
AI
Gerd

If?
Why?
How?
Who?
Gerd

OpenAI has internally shared definitions for five levels of artificial general intelligence (AGI),according to Bloomberg. An OpenAI document Bloomberg reproduced defines the levels:

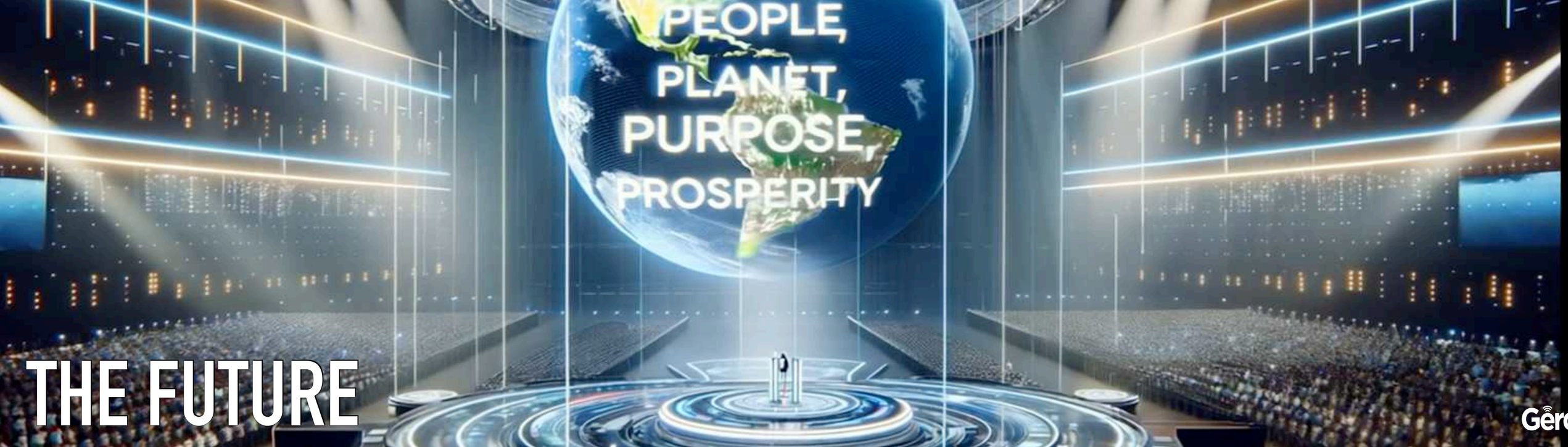
1. Chatbots: AI with conversational language
2. REASONERS: human-level problem-solving
3. AGENTS: systems that can take actions
4. INNOVATORS: AI that can aid in invention
5. ORGANISATIONS: AI that can do the work of an organisation

Too much of a good thing can be a very bad thing

Gerd

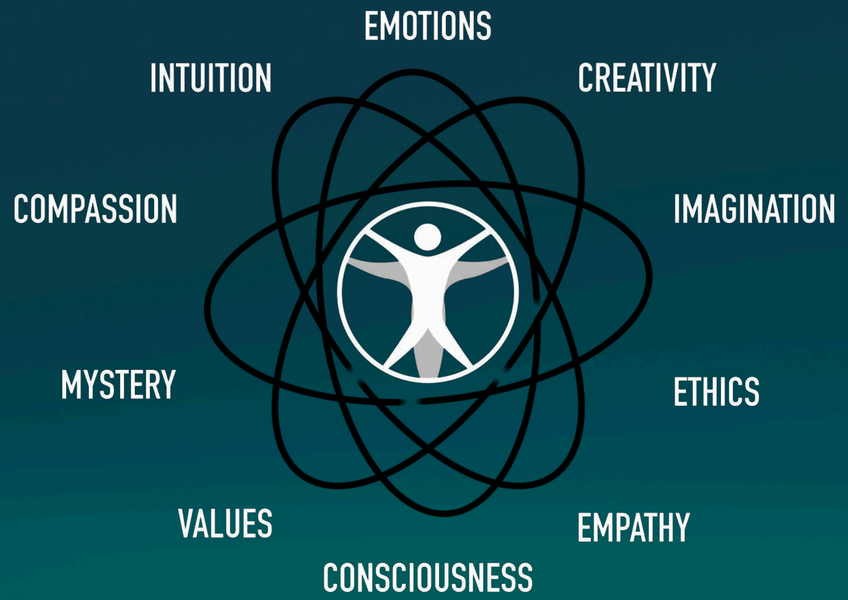
Stay optimistic
84583
24564564
THE FUTURE IS BETTER
THAN YOU THINK
14244564
45364676
Gerd

STAY HUMAN
Machines DON'T 'think' or 'feel'
Machines DON'T have hunches
Machines DON'T 'understand'
Machines DON'T imagine
Machines DON'T care
Gerd



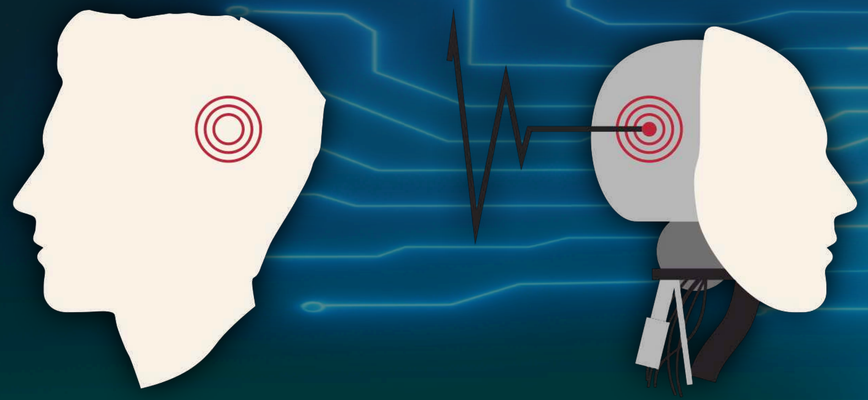
THE FUTURE

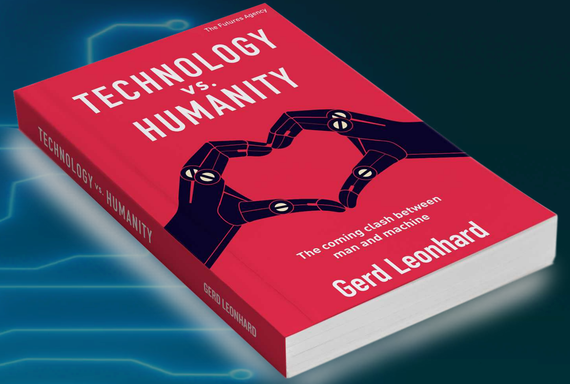
Gerd



Embrace technology – but don't become it!

Thanks for your time and kind attention!





Gerd Leonhard, Futurist & CEO, The Futures Agency

connected

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