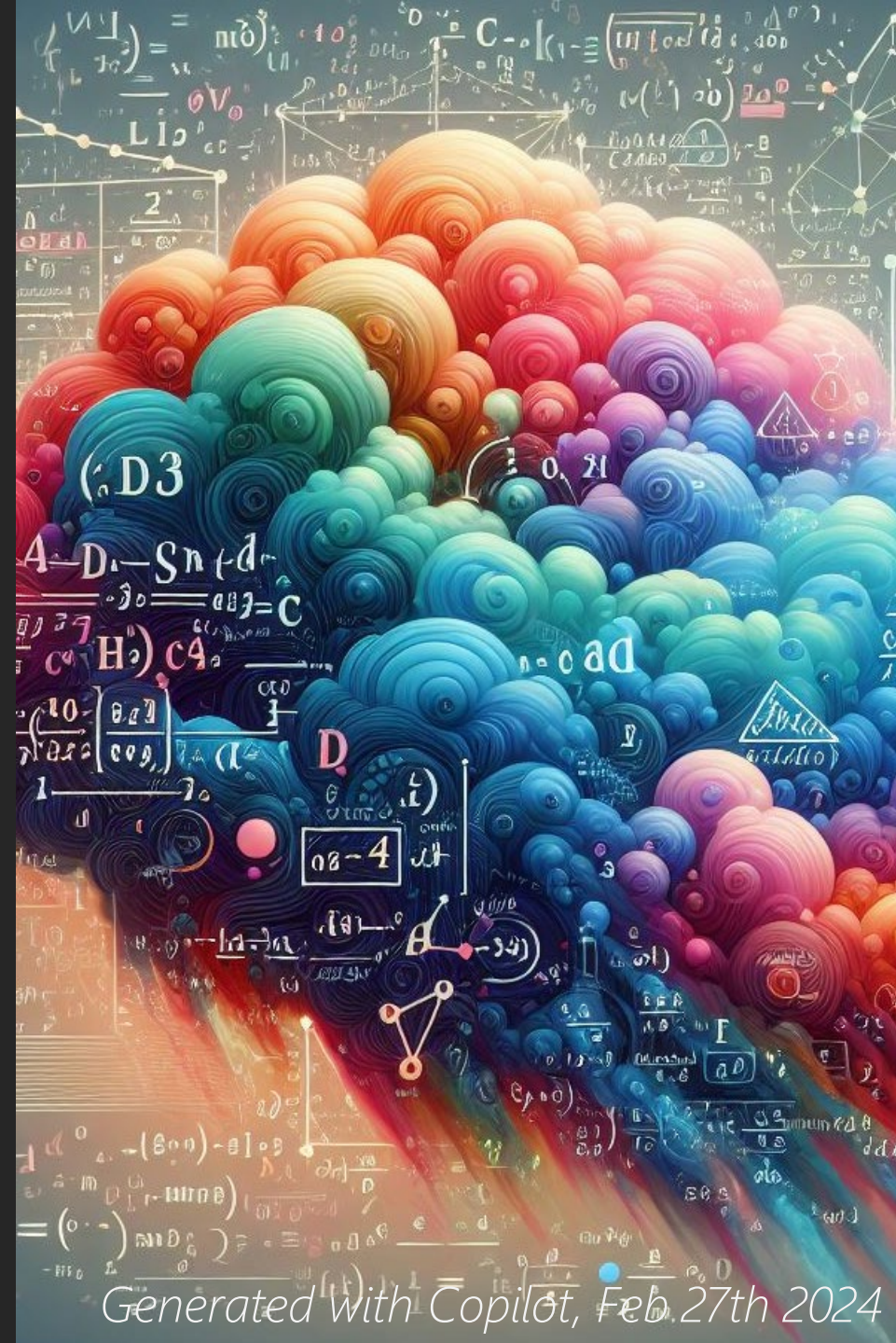


Artificial Intelligence

- beyond the fog of hype and hysteria

Elin Hauge



Generated with Copilot, Feb. 27th 2024



AGI
=
\$100bn profit

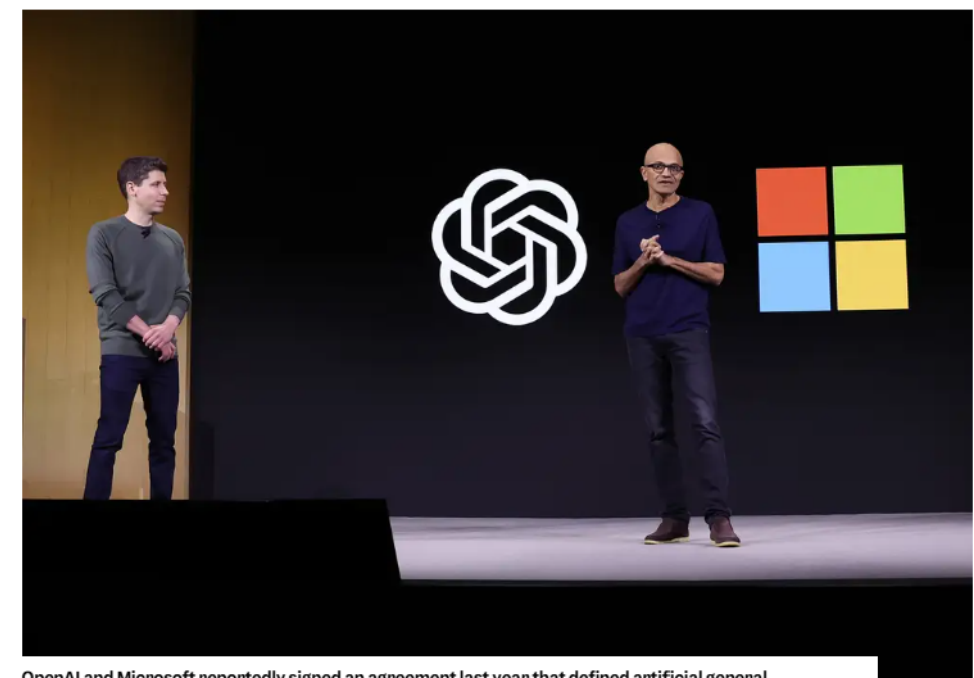
BUSINESS INSIDER

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AI

OpenAI and Microsoft have put a price tag on what it means to achieve AGI: report

[Kwan Wei Kevin Tan](#) Dec 27, 2024, 6:00 AM CET Share Save



OpenAI and Microsoft reportedly signed an agreement last year that defined artificial general intelligence as a system that can generate \$100 billion in profits. [Justin Sullivan via Getty Images](#)

$$J = \frac{1}{n} \sum_{i=1}^n (\text{pred}_i - y_i)^2$$

$$J = \frac{1}{n} \sum_{i=1}^n (a_0 + a_1 \cdot x_i - y_i)^2$$

$$\frac{\partial J}{\partial a_0} = \frac{2}{n} \sum_{i=1}^n (a_0 + a_1 \cdot x_i - y_i) \implies \frac{\partial J}{\partial a_0} = \frac{2}{n} \sum_{i=1}^n (\text{pred}_i - y_i)$$

$$\frac{\partial J}{\partial a_1} = \frac{2}{n} \sum_{i=1}^n (a_0 + a_1 \cdot x_i - y_i) \cdot x_i \implies \frac{\partial J}{\partial a_1} = \frac{2}{n} \sum_{i=1}^n (\text{pred}_i - y_i) \cdot x_i$$

AI Act, Chapter 1, Article 3:

'AI system' means

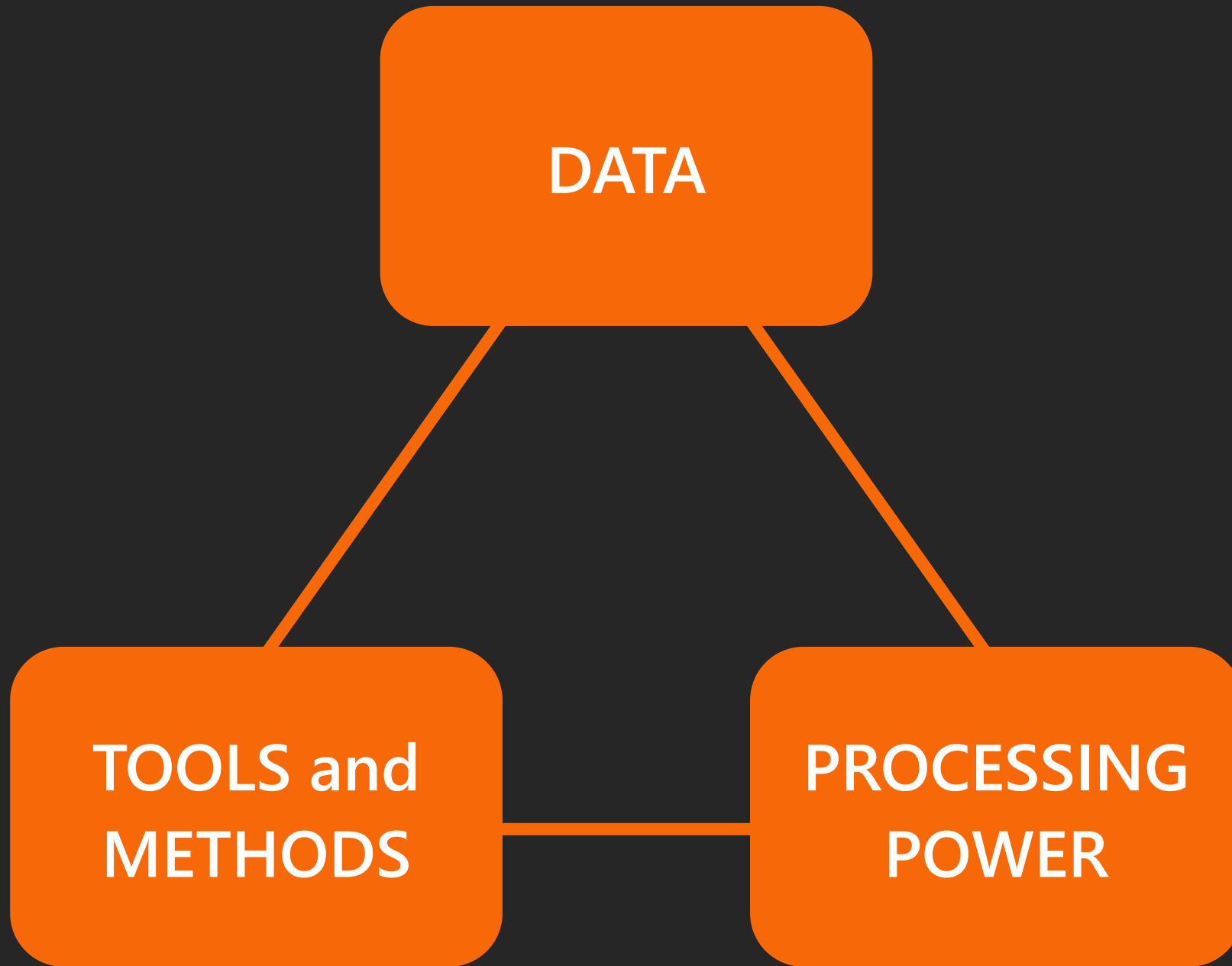
*a **machine-based system** that is designed to operate with varying levels of autonomy and that may exhibit **adaptiveness after deployment**, and that, for explicit or implicit objectives, **infers**, from the input it receives, how to generate outputs such as predictions, content, recommendations, or decisions that can influence physical or virtual environments.*

A staircase of white steps is set against a blue wall with vertical panels. The steps ascend from the bottom left towards the top right. Three text labels are positioned on the wall: 'Artificial Intelligence' is on the highest step, 'Digital Transformation' is on a middle step, and 'Big Data' is on a lower step. The lighting creates long, diagonal shadows from the steps onto the wall.

Artificial Intelligence

Digital Transformation

Big Data



INTERPRETATION → PREDICTION → GENERATION

The gamechanger: Large Language Models (LLMs)

= semantic probabilistic
information models



Generated with Copilot, Jan 2025



AI Agents

= prediction models wrapped in software

AI agents

Learning

Adaptable

Multi-modal

Autonomous

Chain-of-thought

Agent-to-agent

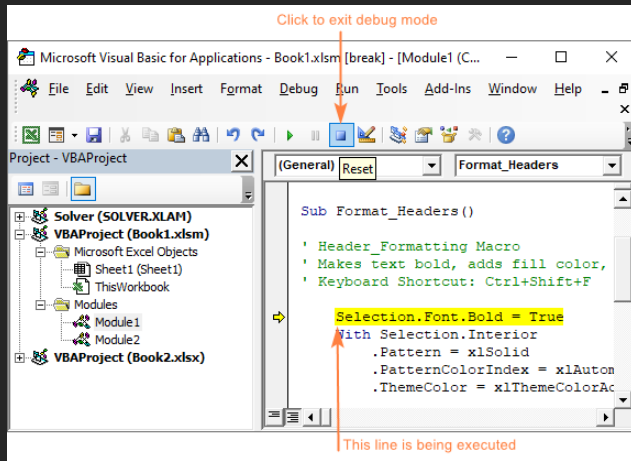
VB Macros



RPA



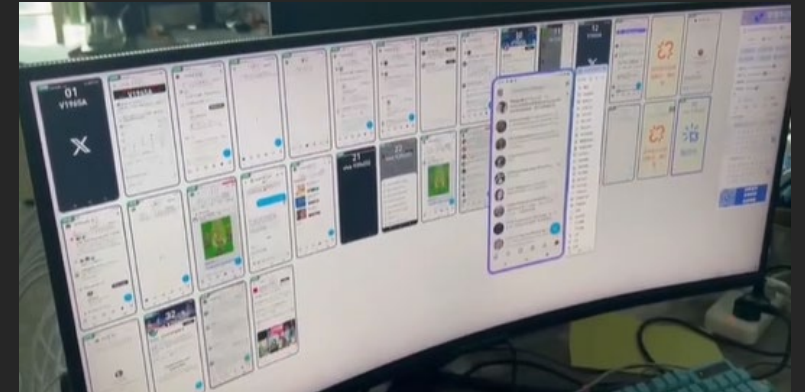
AI Agents



Rule-based



Rule-based



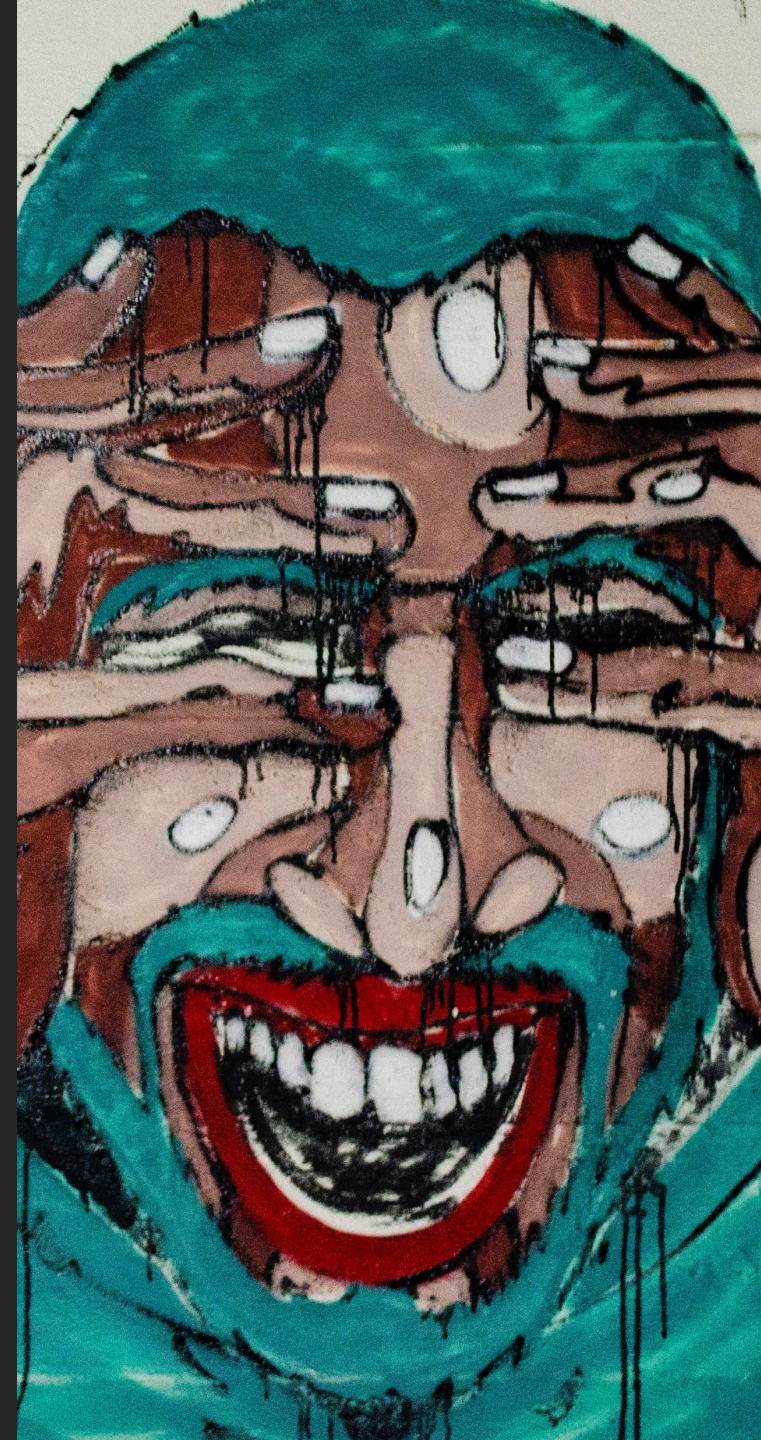
Probability-based

The probabilistic nature of AI:

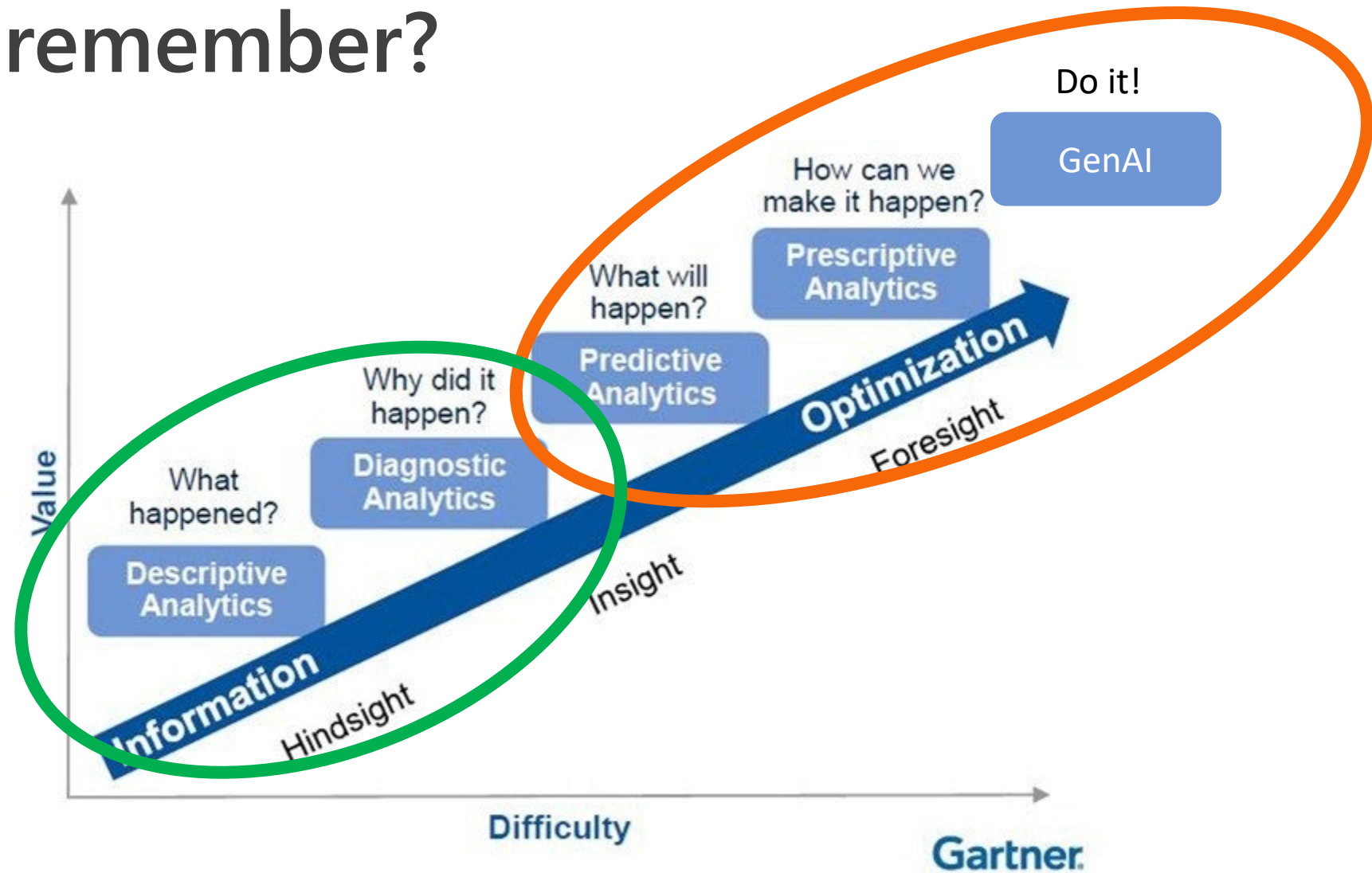
When we want it: CREATIVITY

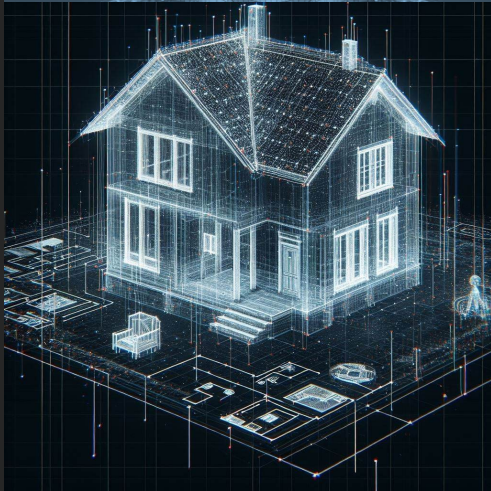
When we don't want it: HALLUCINATIONS
(CONFABULATIONS)

The problem? HUMAN EXPECTATIONS



Do you remember?



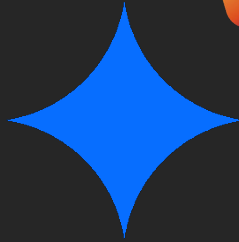


Generated with Copilot, 2024

80 / 20

**How to succeed with utilising AI for
responsible value-creation?**

Personal productivity



Enterprise strategy





Enterprise strategy

LLMs as foundations for solutions
to solve complex problems,
automate processes,
and optimise resources.

DATA

... availability

... quality

... integrity

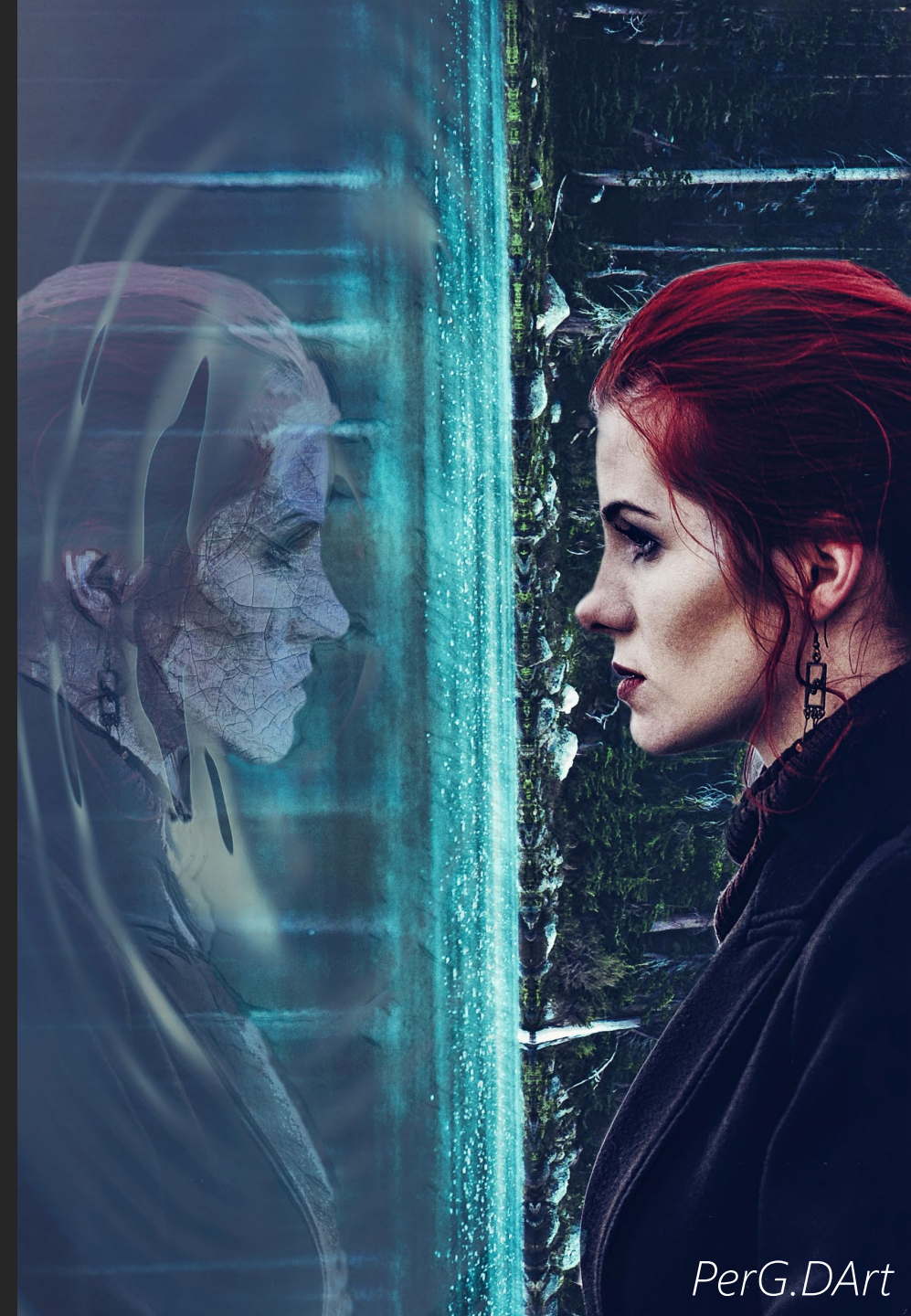
... security

... consents



Bias

- a reflection of the world as it was





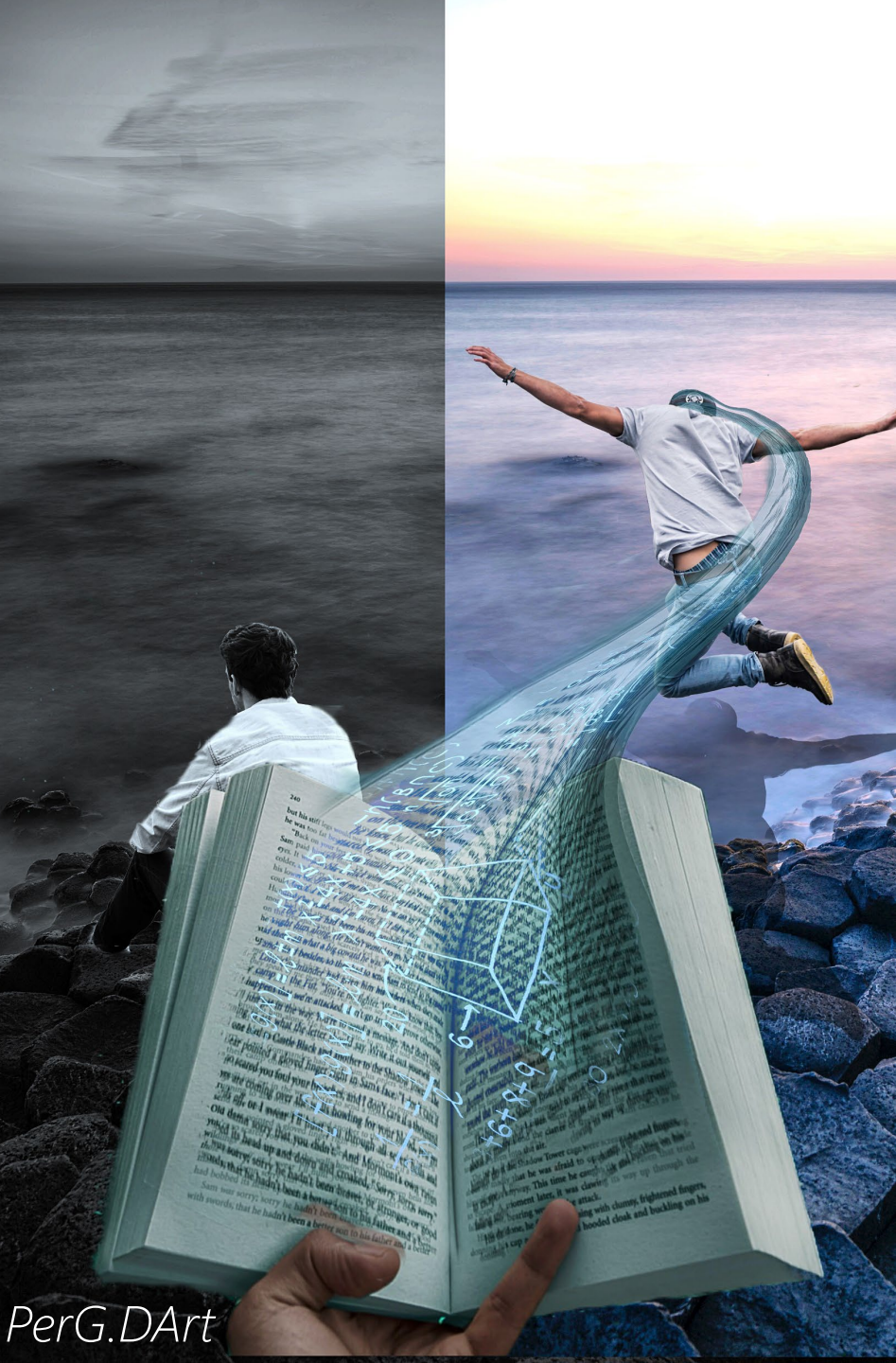
**Automate the process,
humanise the touch.**

96%
of executives expect AI to
INCREASE productivity

77%
of employees experience
REDUCED productivity

QUESTION:

**How many executives are
personally using AI tools for work
on a weekly basis?**



AI literacy starts at the top



Looking ahead...



Photo by [Mathilda Khoo](#) on [Unsplash](#)

AGI will be achieved

....and most of us
won't really care

BUSINESS INSIDER

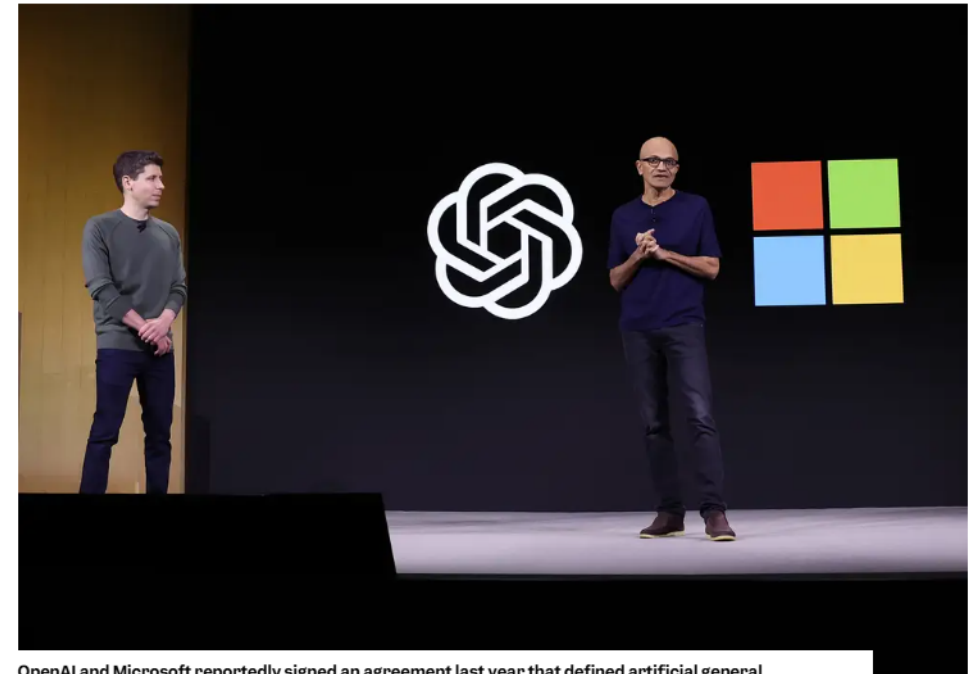
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OpenAI and Microsoft reportedly signed an agreement last year that defined artificial general intelligence as a system that can generate \$100 billion in profits. [Justin Sullivan via Getty Images](#)

Everywhere



**Job loss/creation
is a question of
role understanding**

US Cyber Command told to ‘stand down’ operations involving Russia

The United States Secretary of Defense reportedly told Cyber Command to cease all planning and offensive cyber operations against Russia as part of a shift closer to Vladimir Putin.



David Hollingworth • Mon, 03 Mar 2025 • **SECURITY**

 **SHARE**



“Powered by AI”:

Warfare

“Drill baby, drill!”

Water shortage

Conflict zone mining

Toxic e-waste

Massive consumption



AI is the natural next step

AI for good is YOUR responsibility

AI is a powerfull toolbox



elin@elinhaug.no

www.elinhaug.com