



aitapa

Technology, humanity and the future



techvshuman.com



[@gleonhard](https://twitter.com/gleonhard)



gerdtube.com



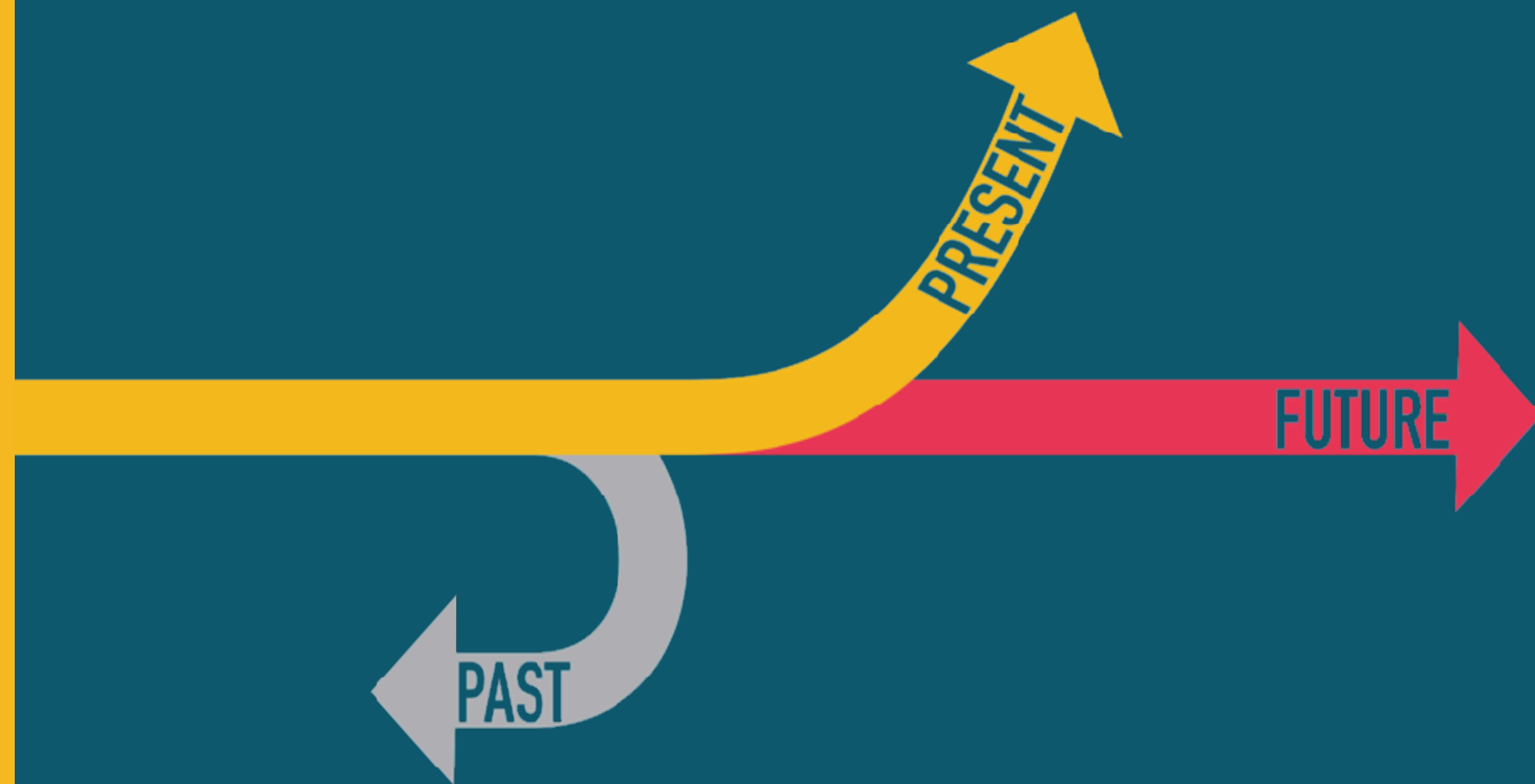
gerdcloud.com



futuristgerd.com



The future is no longer just an extension of the present !



Technology is transforming every single sector of our society



Huge opportunities as well as challenges: leadership / stewardship are more important than ever

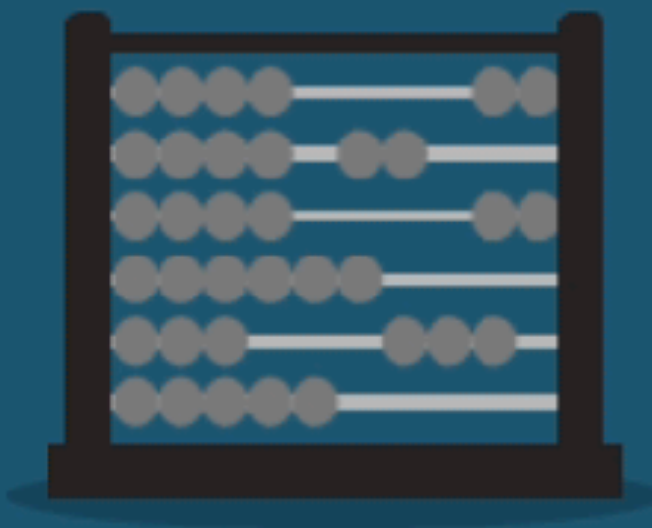


Technology is morally neutral until we apply it (W. Gibson)



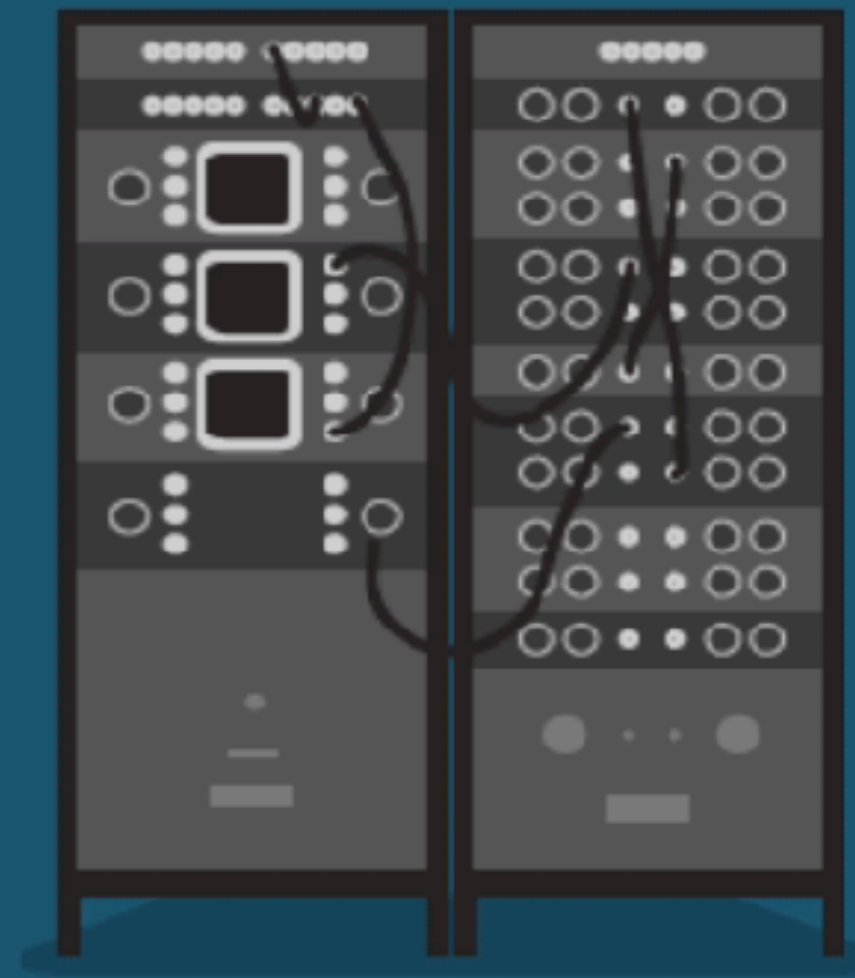
TECHNOLOGY HAS NO ETHICS

Machines that can hear us, see us, understand us and even simulate us. Machines that are no longer programmed but **taught**...



*Tabulating
Systems Era*

1900



*Programmable
Systems Era*

1950



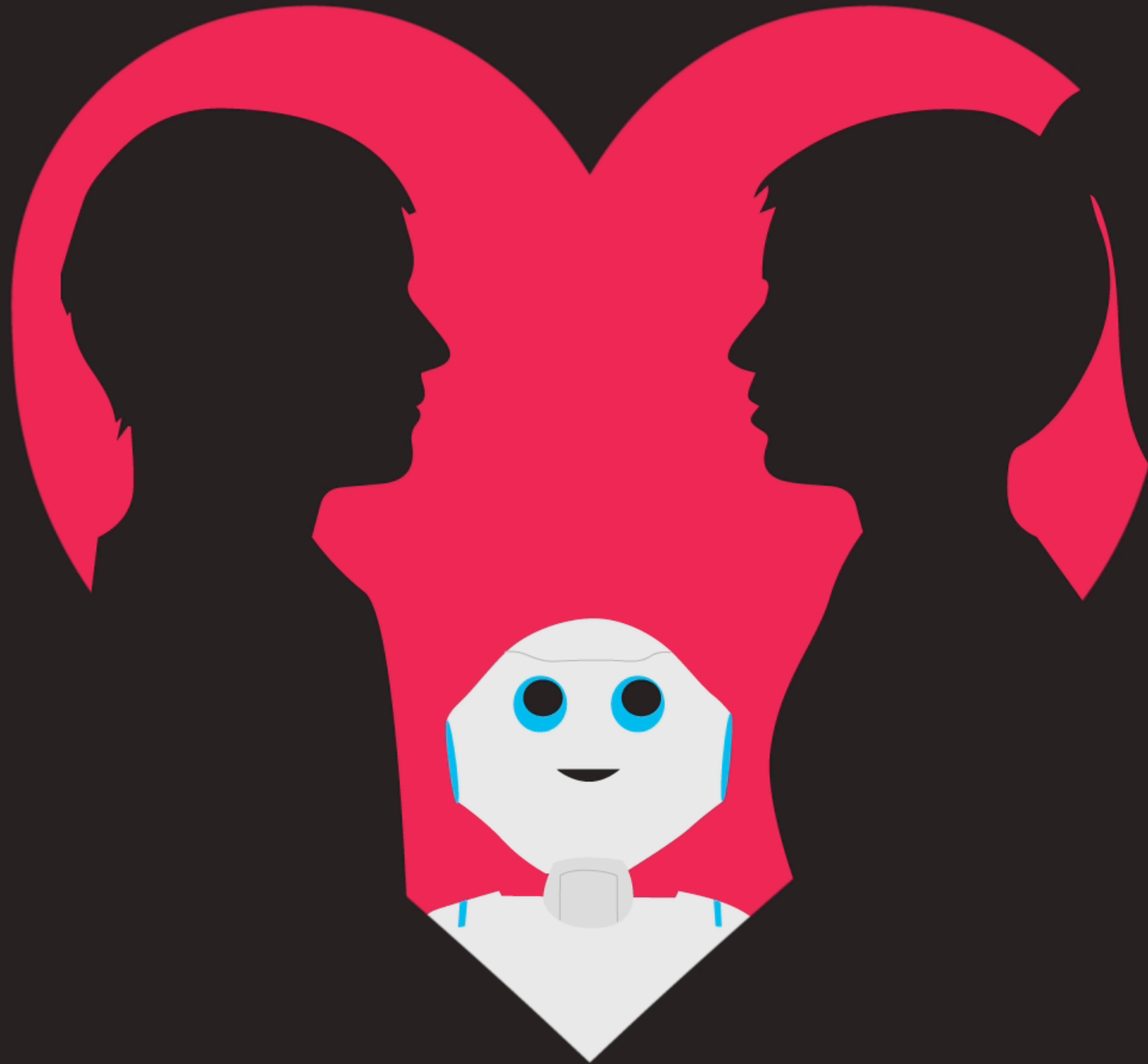
*Cognitive
Systems Era*

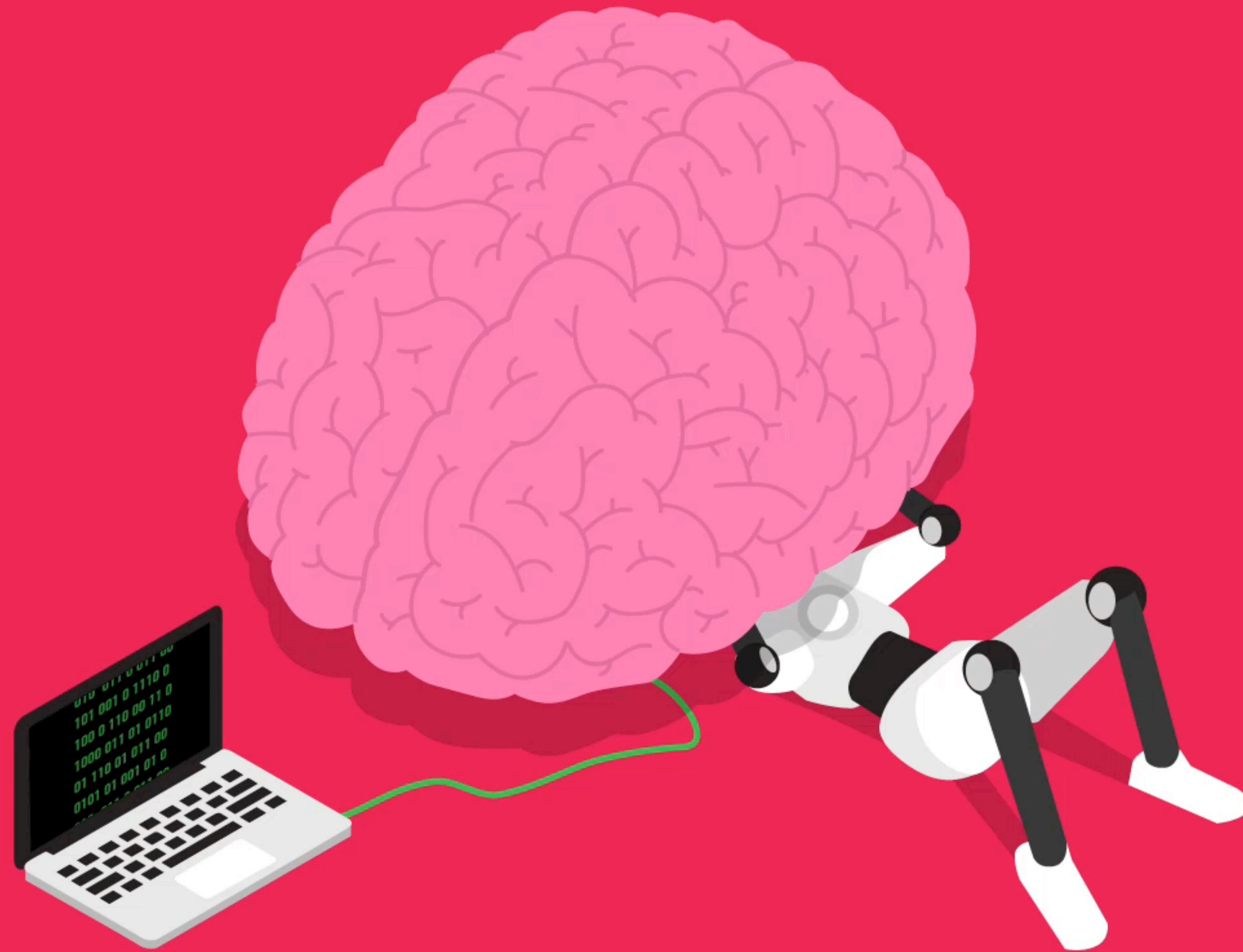
2011

Fancy watching a romantic film?

He likes action movies





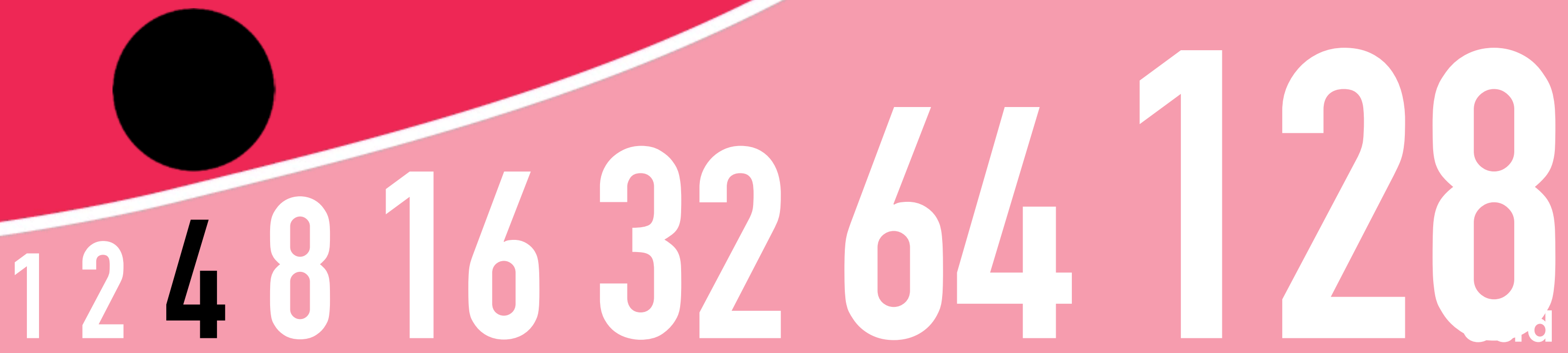




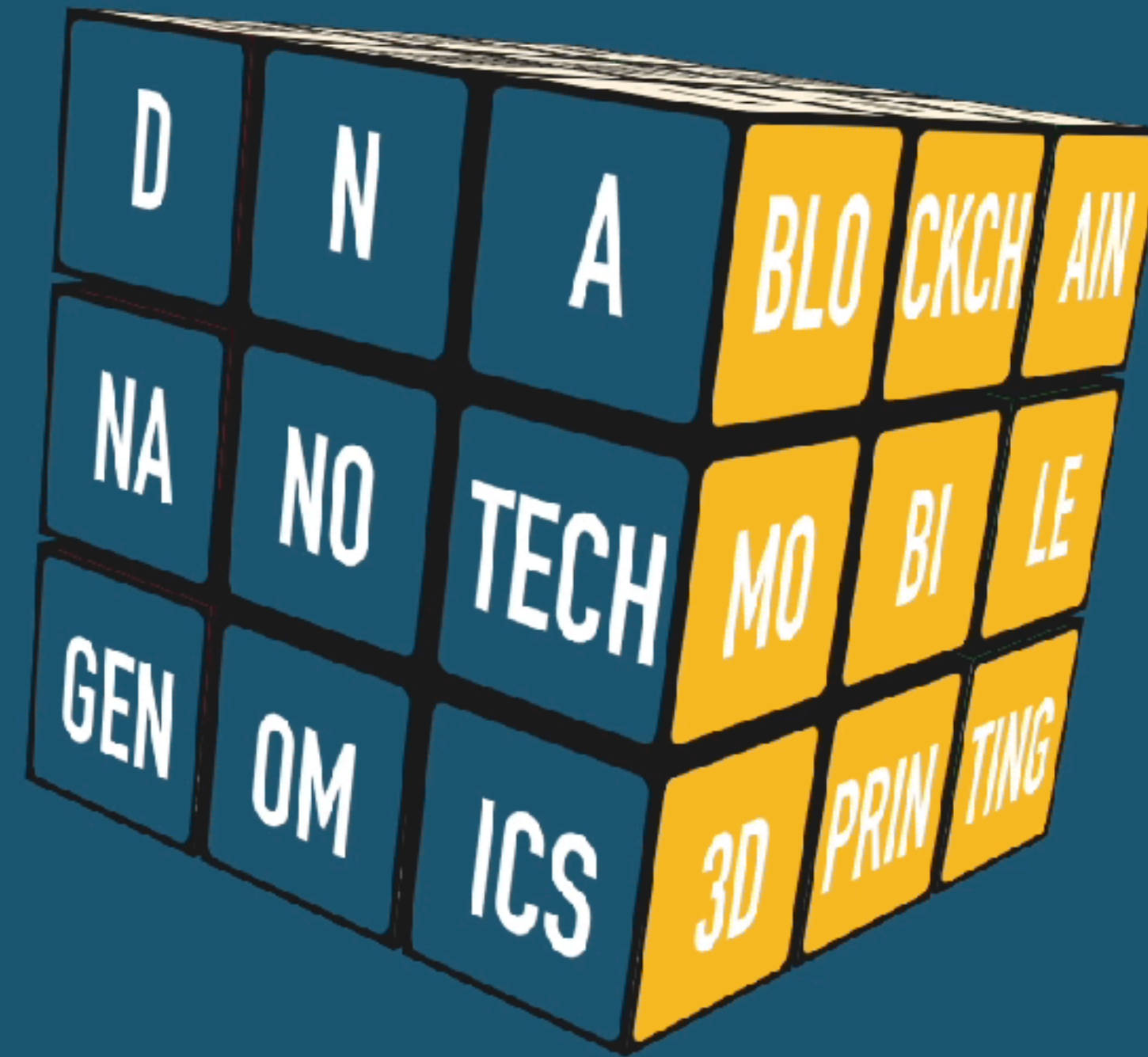
Technology is
#hellven

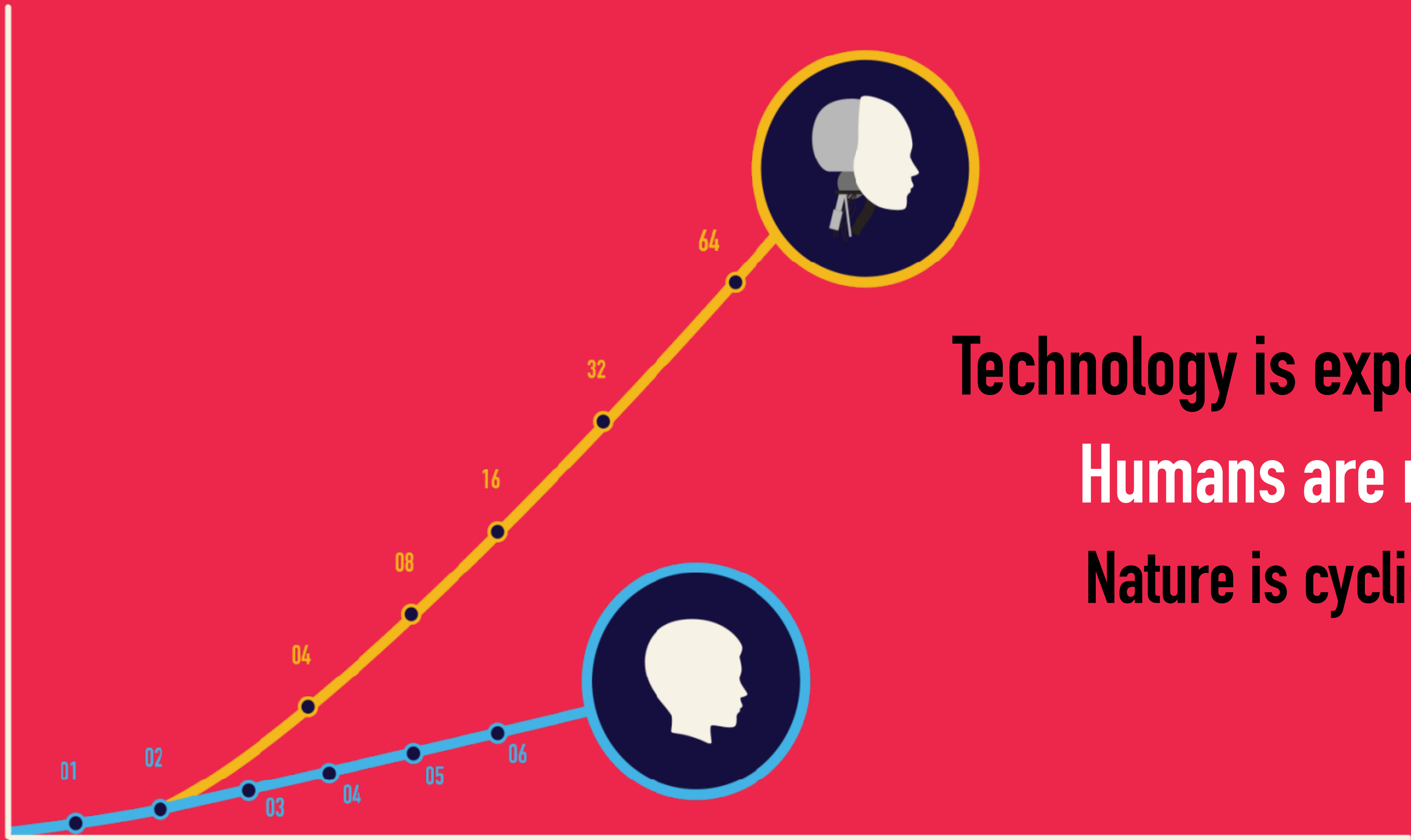


**We are at the
pivot point
of exponential
technological
change**



COMBINATORIAL
EXPONENTIAL
INTERDEPENDENT



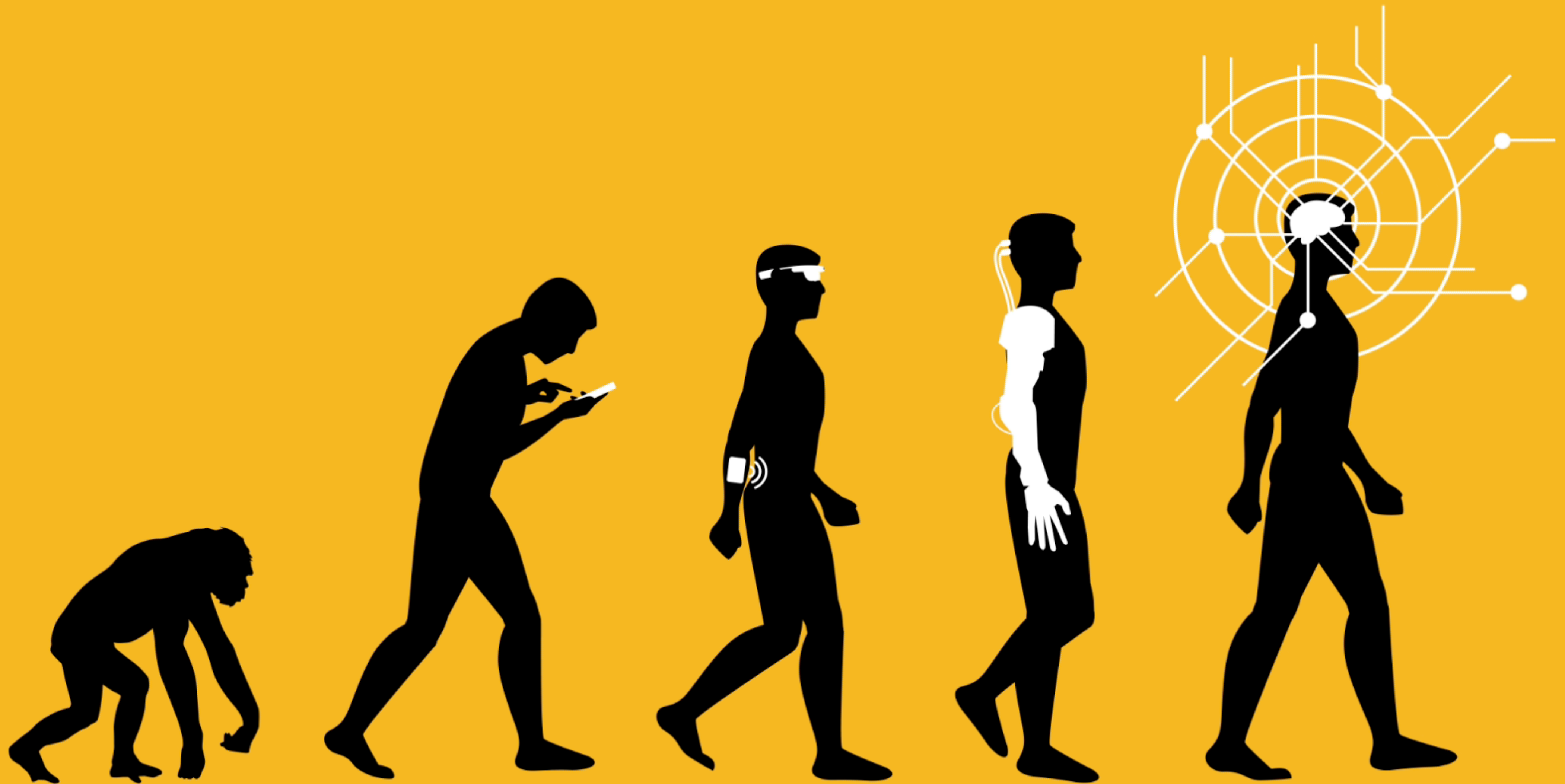


Technology is exponential

Humans are not

Nature is cyclical

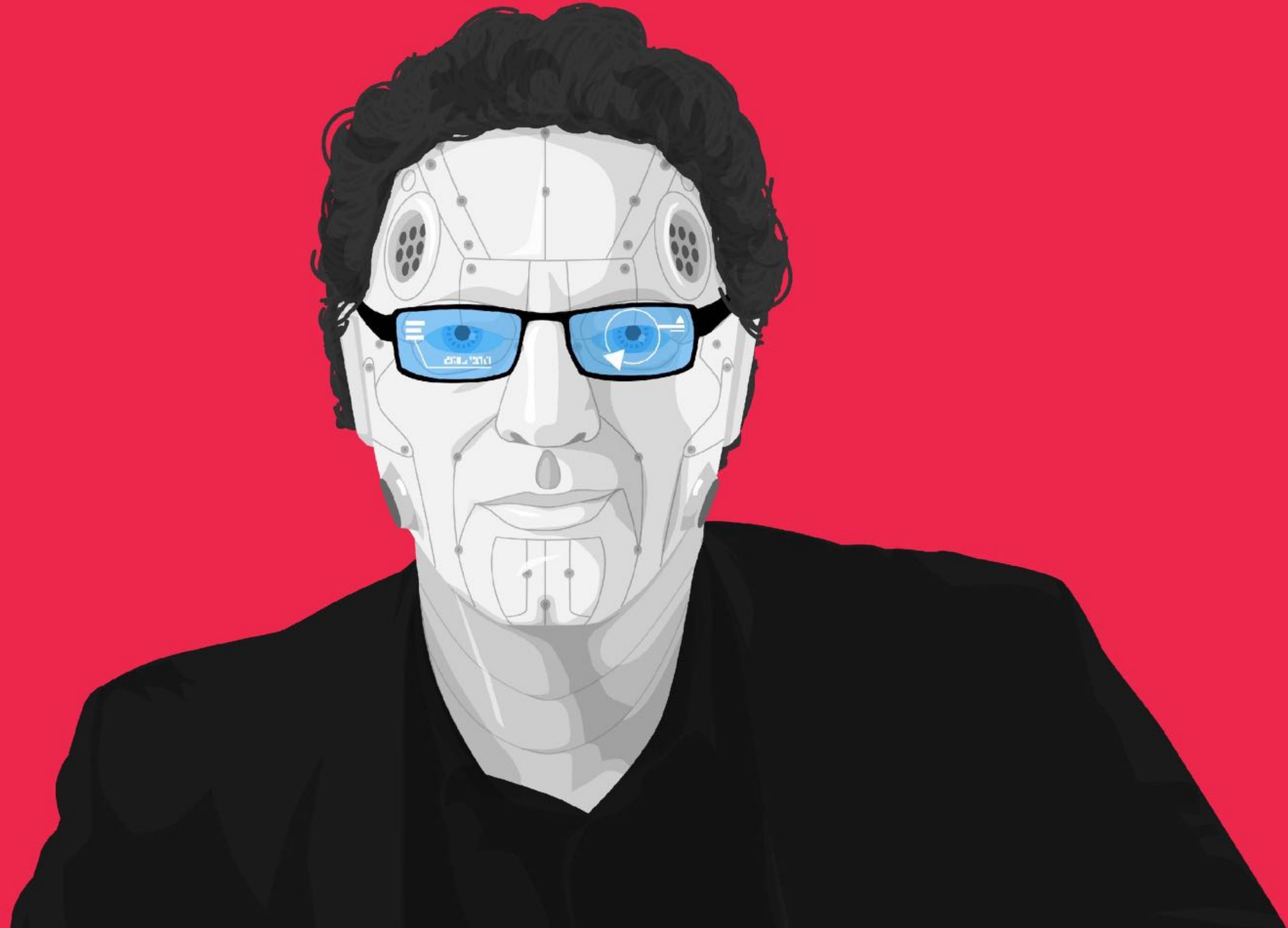
Humanity will change more in the next 20 years than the previous 300 years



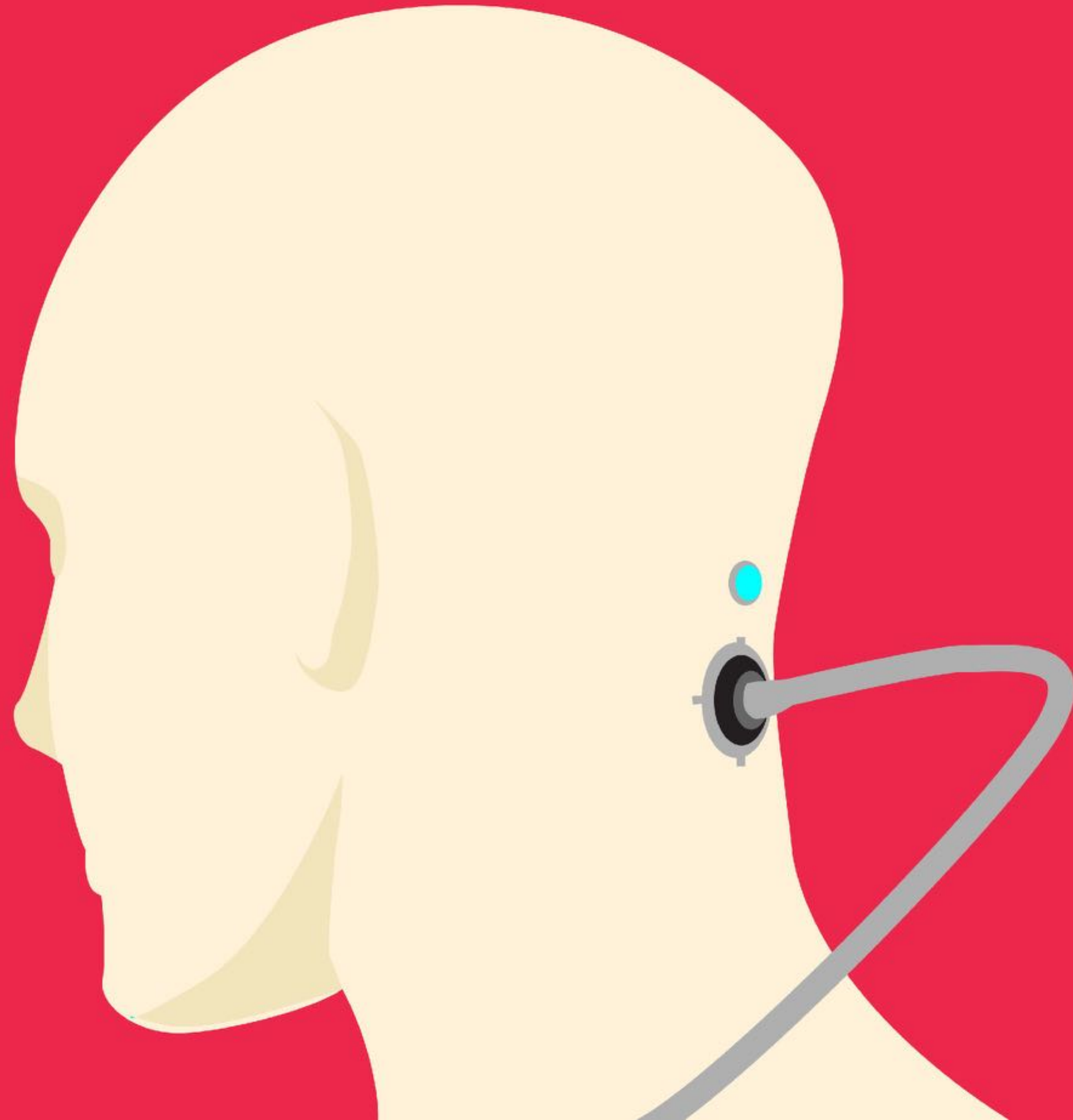
Humanity will change more in the next 20 years than the previous 300 years



Super-smart... but no longer human?



Super-smart... but no longer human?



Technology is the new religion (along with dataism and hyper-efficiency)



Technology has been very good at giving us what we want, but less good at giving us what we need (Arianna Huffington)



Technology has been very good at giving us what we want, but less good at giving us what we need (Arianna Huffington)



POSITIVITY



ENGAGEMENT



RELATIONSHIPS



MEANING



ACCOMPLISHMENT

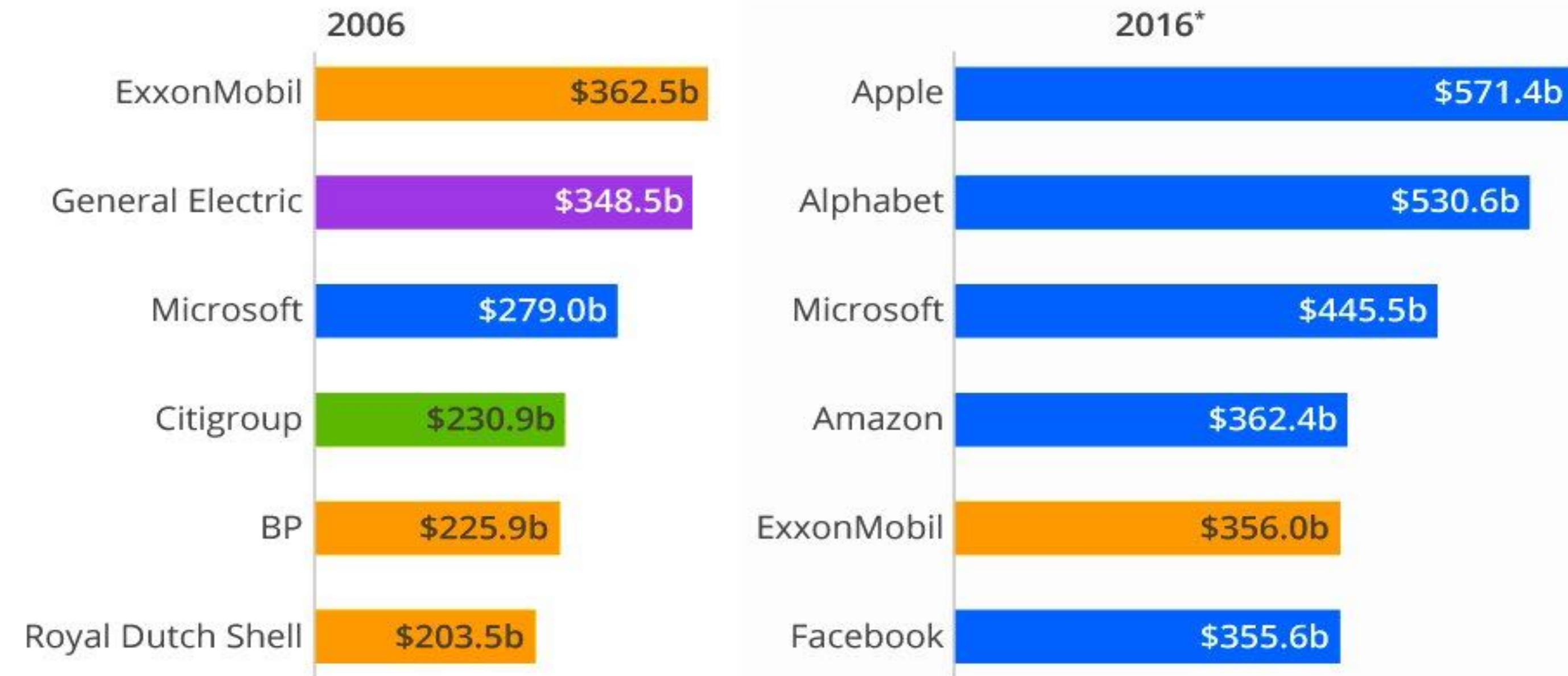
The biggest challenge is not that machines will take over
-but that we become too much like them!



The Age of Tech

Market capitalization of the world's most valuable public companies

■ Tech ■ Oil/Energy ■ Financial Services ■ Conglomerate



© @StatistaCharts

* as of August 1, 2016

Sources: Yahoo! Finance, Forbes

statista

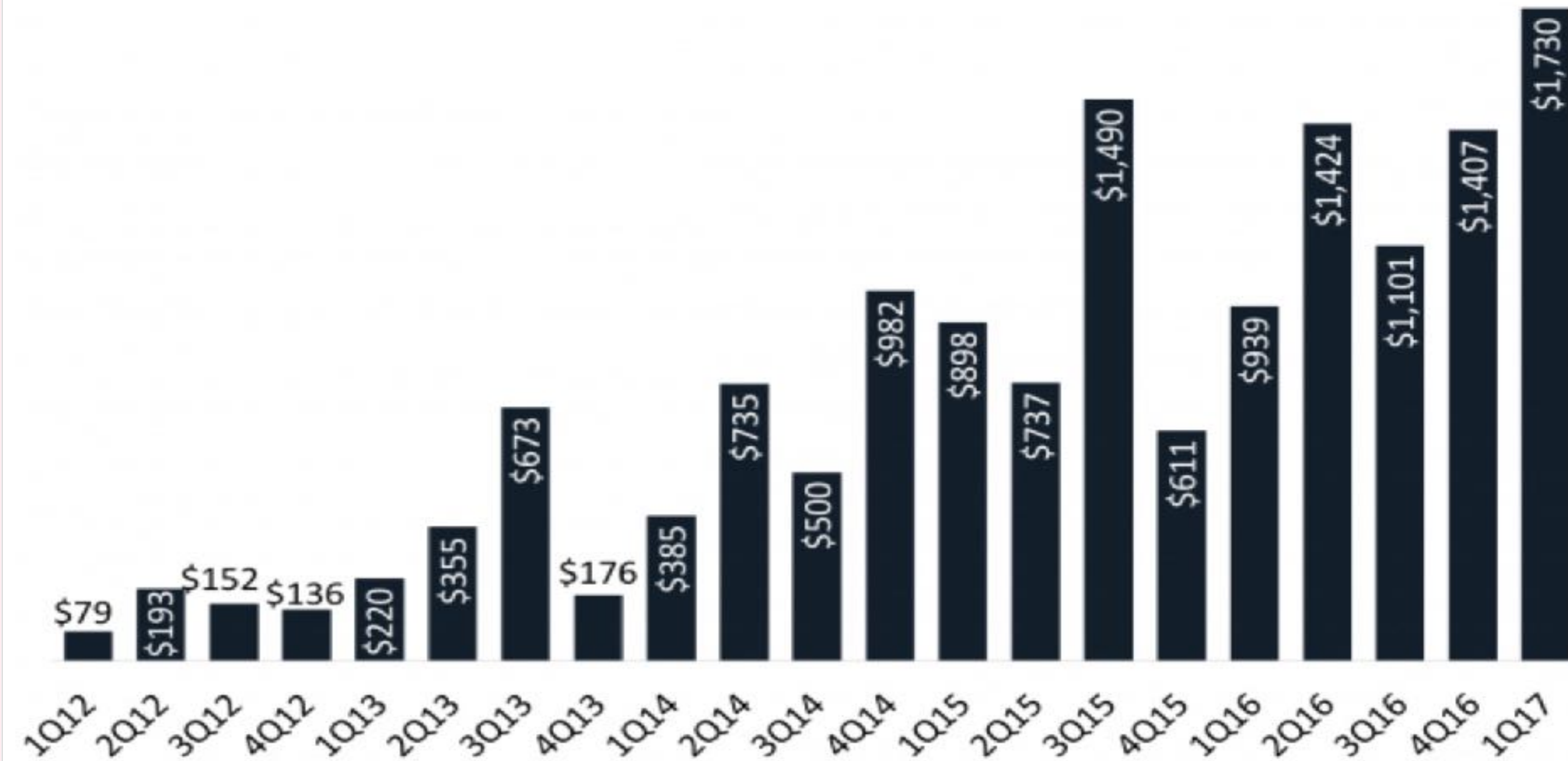
Data
is the
new oil

...

...and AI is the new electricity

Global Quarterly Artificial Intelligence Funding

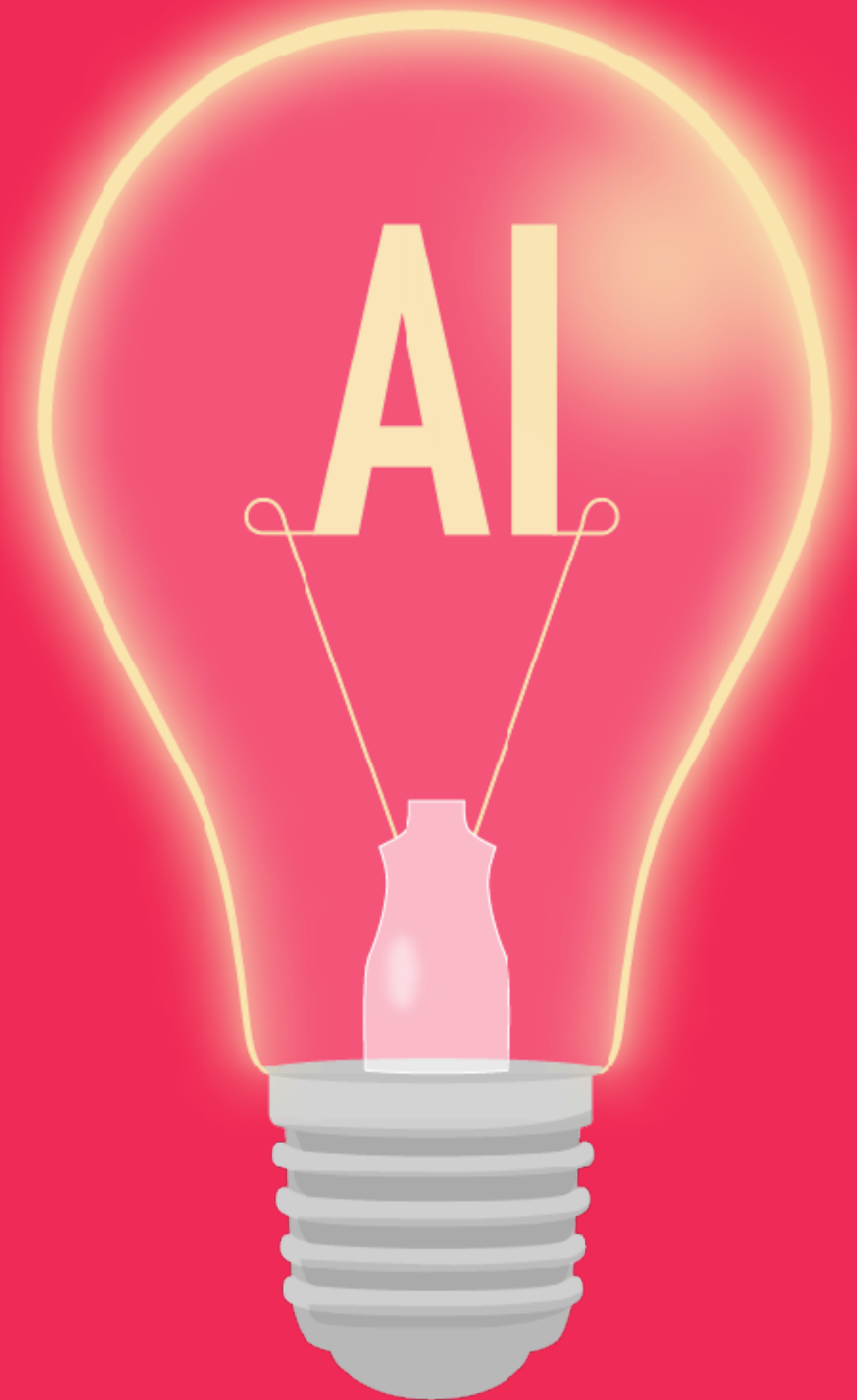
Millions (\$)



Source: CB Insights, 2017

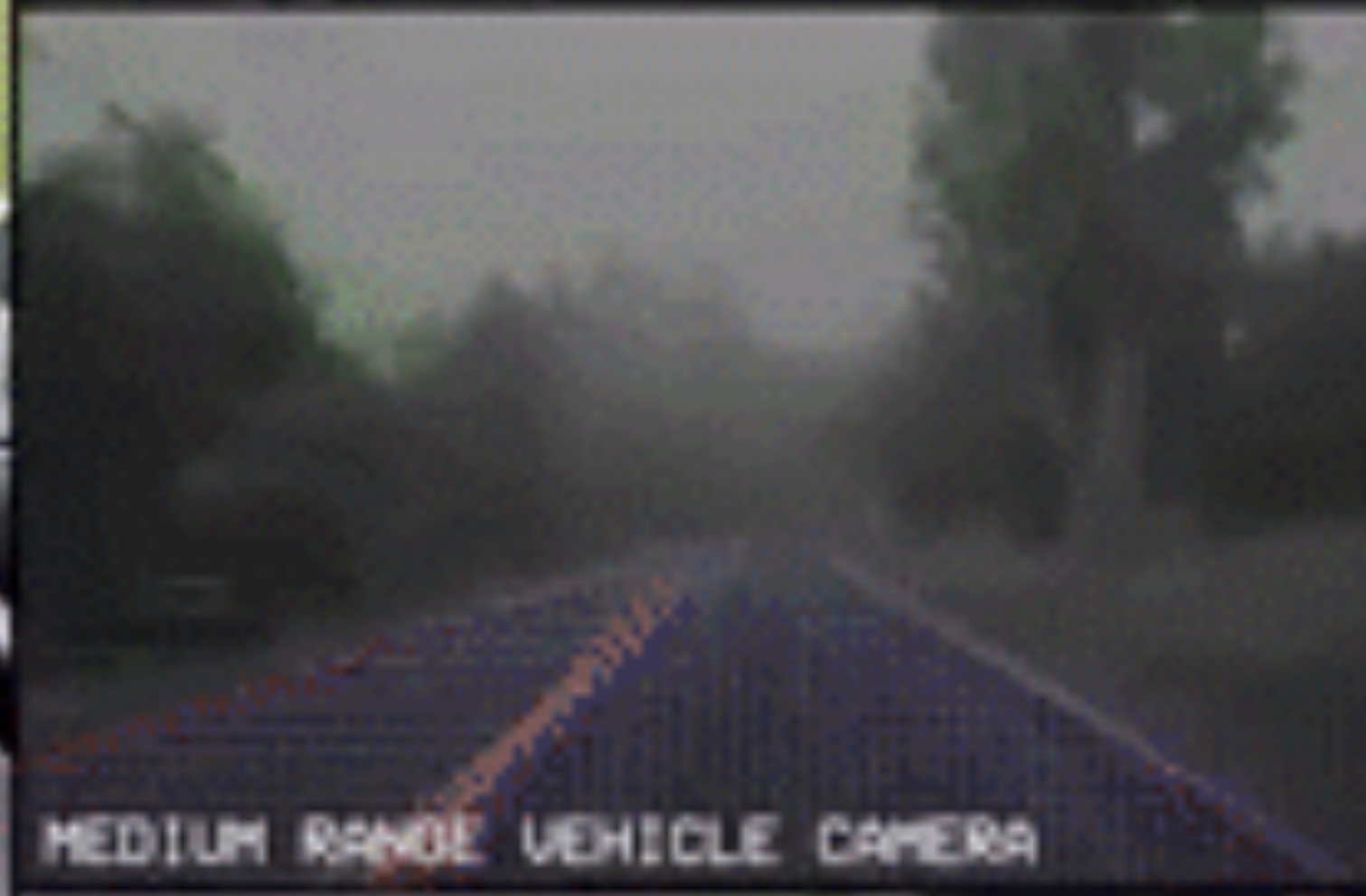
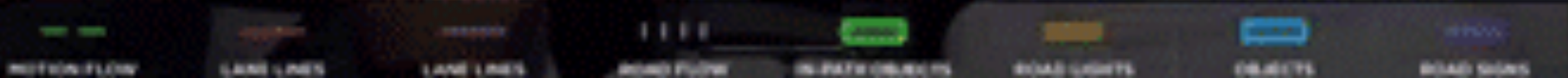
BI Intelligence

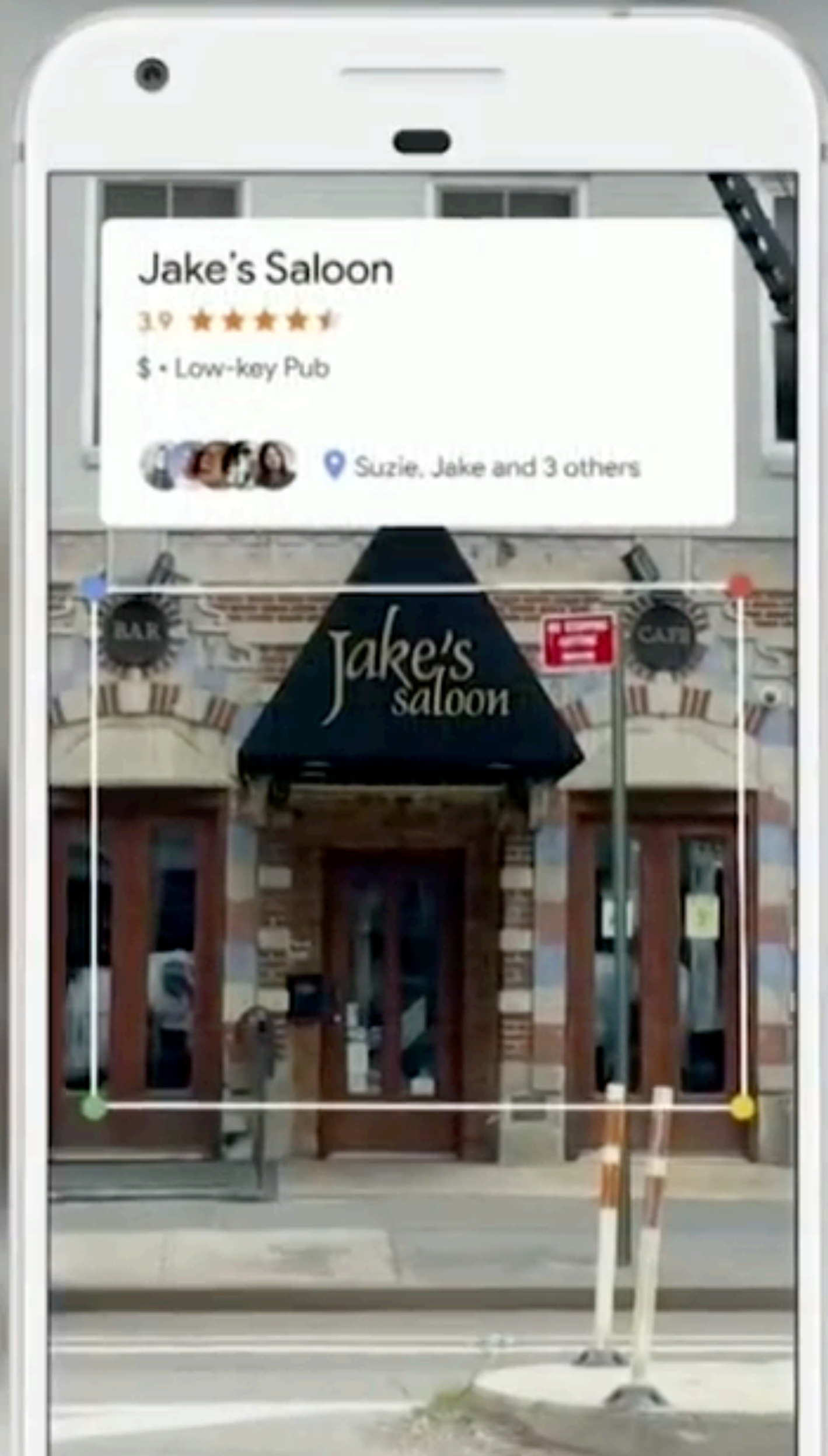
BI INTELLIGENCE



Artificial Intelligence: “computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages”









“Never mistake a clear view for a short distance” (Paul Saffo)



His honour the machine

Prisoners released on bail*
%

Chosen by judges

18.6

of which: re-offend†

Suggested by algorithm

14.9

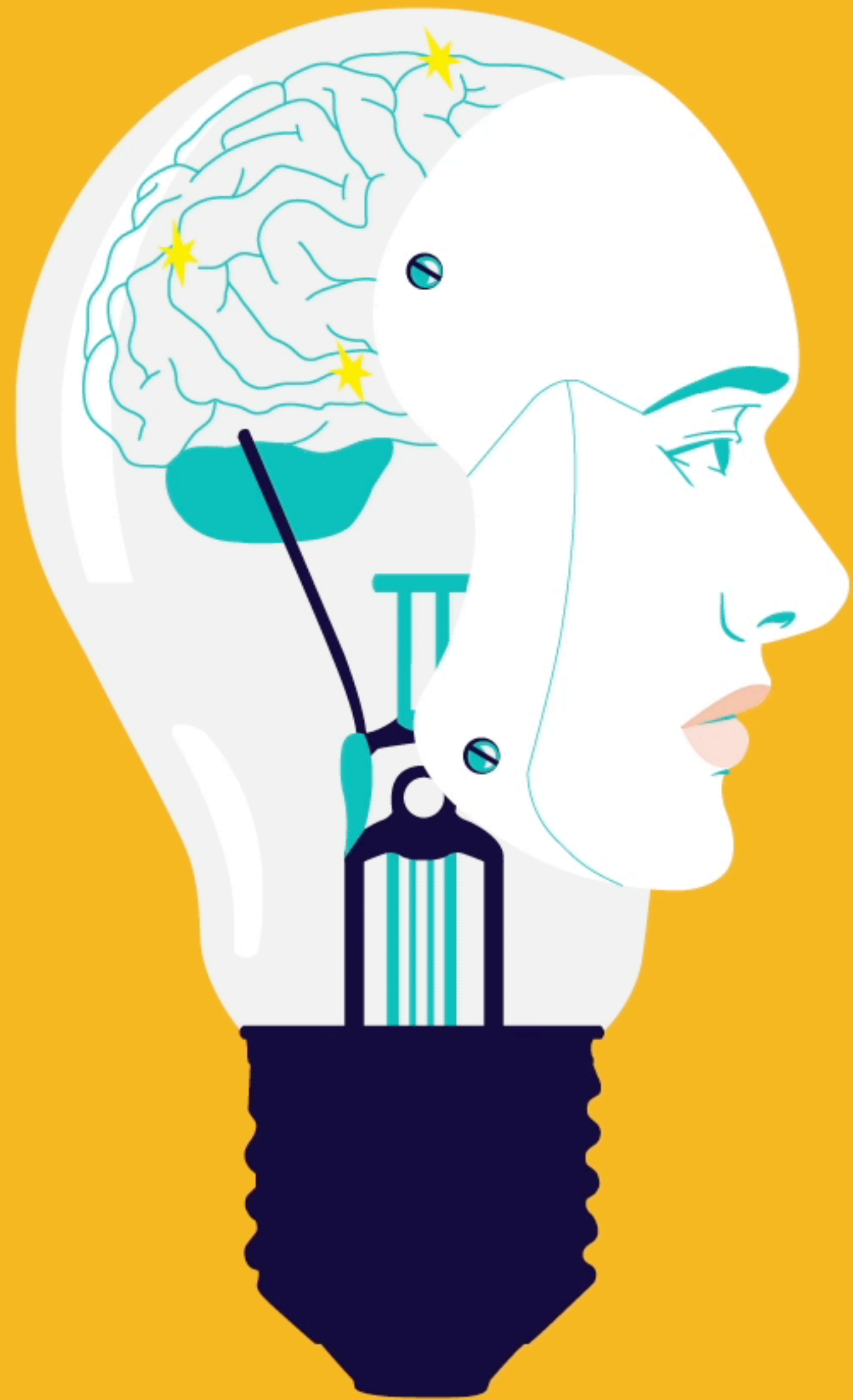
*From a representative sample of the US Department of Justice database 1990-2009

Source: Jens Ludwig, University of Chicago

†Failure to appear in court and re-arrest before trial

Economist.com





“Algorithms outperform human intelligence when it is **not** about understanding emotional states, intentions, interpretations, deep semantic skills, consciousness, self-awareness and flexible intelligence*”

(via Luciano Floridi)

Computers are for answers – people are for questions (Kevin Kelly)



Rank	Company	Region	Current Market Value (\$B)
1	Apple	USA	\$801
2	Google - Alphabet	USA	680
3	Amazon	USA	476
4	Facebook	USA	441
5	Tencent	China	335
6	Alibaba	China	314
7	Priceline	USA	92
8	Uber	USA	70
9	Netflix	USA	70
10	Baidu	China	66
11	Salesforce	USA	65
12	Paypal	USA	61
13	Ant Financial	China	60
14	JD.com	China	58
15	Didi Kuaidi	China	50
16	Yahoo!	USA	49
17	Xiaomi	China	46
18	eBay	USA	38
19	Airbnb	USA	31
20	Yahoo! Japan	Japan	26
Total			\$3,827

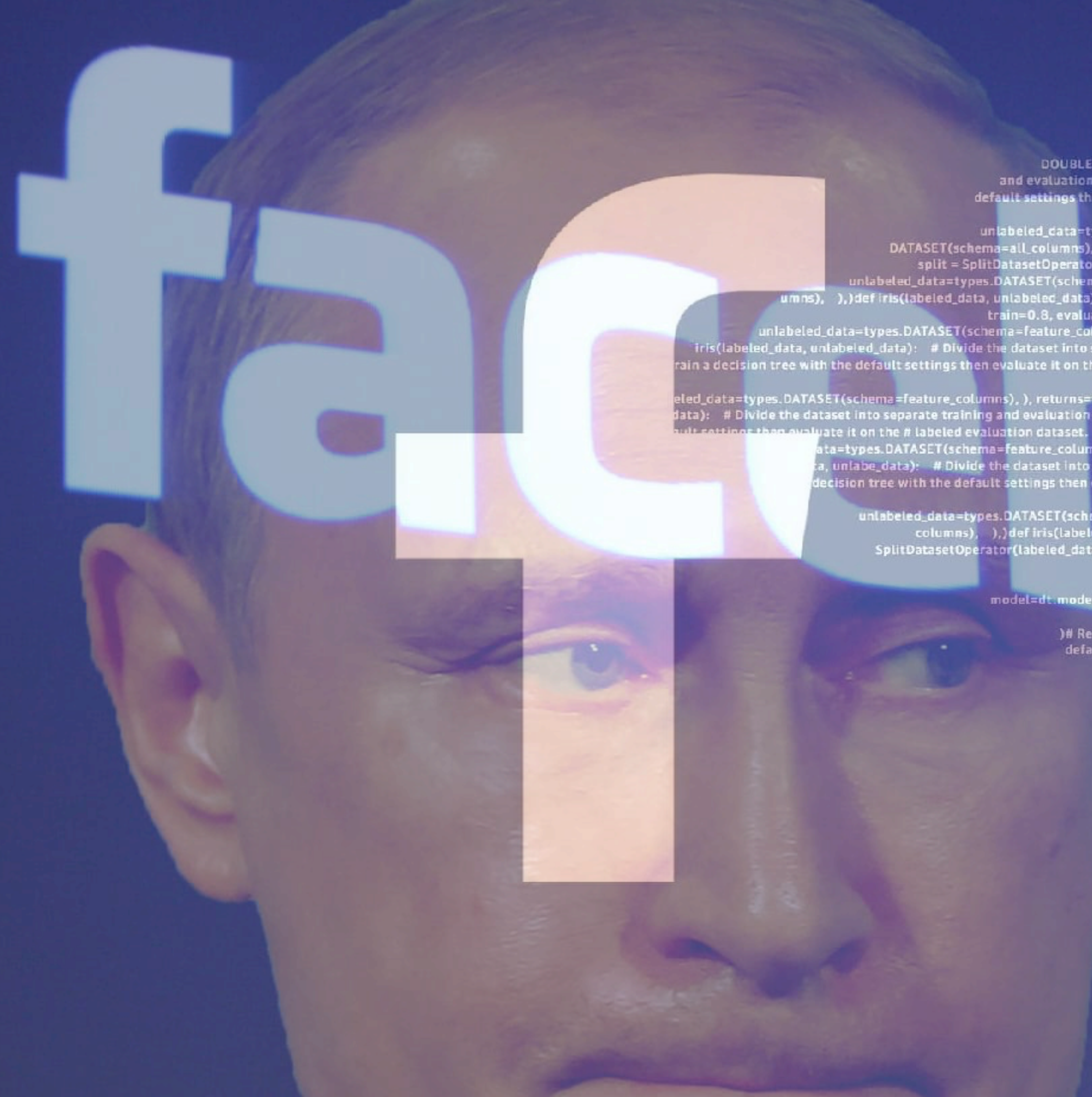
KPCB

Connectivity

+ Data

+ Intelligence

= Power



Army of Jesus

Sponsored · 🌐

👍 Like Page

Today Americans are able to elect a president with godly moral principles. Hillary is a Satan, and her crimes and lies had proved just how evil she is. And even though Donald Trump isn't a saint by any means, he's at least an honest man and he cares deeply for this country. My vote goes for him!



07 Reactions · 15 Comments · 99 Shares

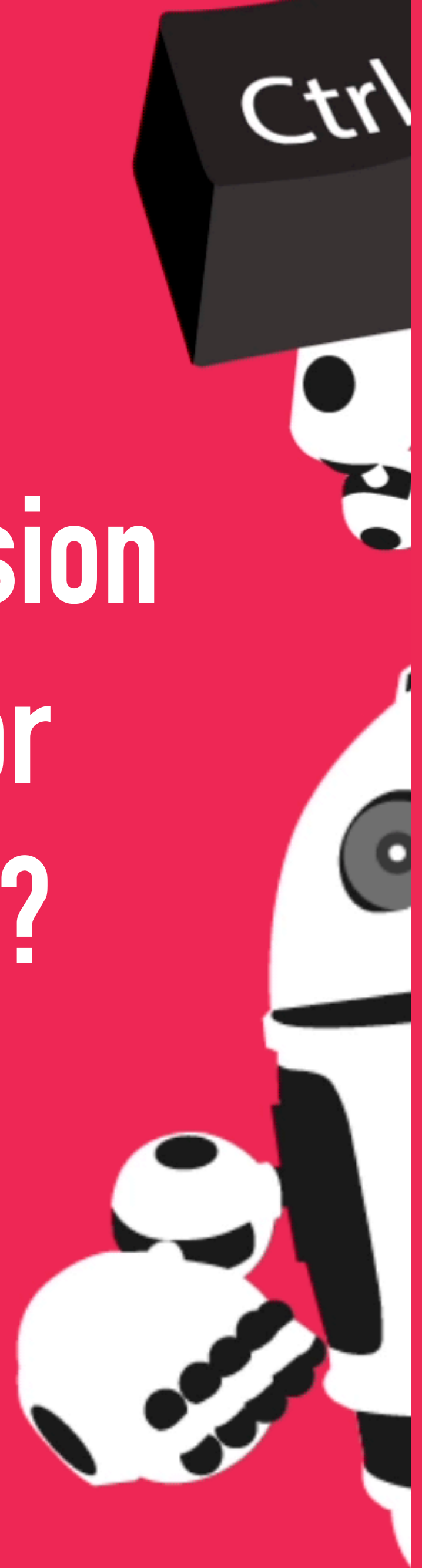
"Ethics is knowing the difference between what you have a right (or the power) to do and what is the right thing to do"

adapted from Potter Stewart





**Who is mission
control for
humanity?**



**“THERE SHOULD BE SOME REGULATORY OVERSIGHT AT INTERNATIONAL LEVEL
TO MAKE SURE WE DON'T DO SOMETHING FOOLISH”**

(ELON MUSK – TESLA)

**“THE MOST PROMISING FUTURE IS ONE WHERE WE DO NOT HINDER INNOVATION
BUT NEITHER DO WE DISMISS THE EXPONENTIAL RISKS
AS “SOMEBODY ELSE’S BUSINESS”**

(ME)

The 2017 Asilomar **AI** principles: great overall guidance for the future of how we should use technology

- **Human values:** all systems should be designed and operated to be compatible with ideals of human dignity, rights, freedoms and cultural diversity
- **Shared benefit and prosperity:** to benefit & empower as many people as possible
- **Ecosystem thinking:** ethical, economical and societal issues need to be included
- **Responsibility:** those that design, build or run these systems are moral stakeholders

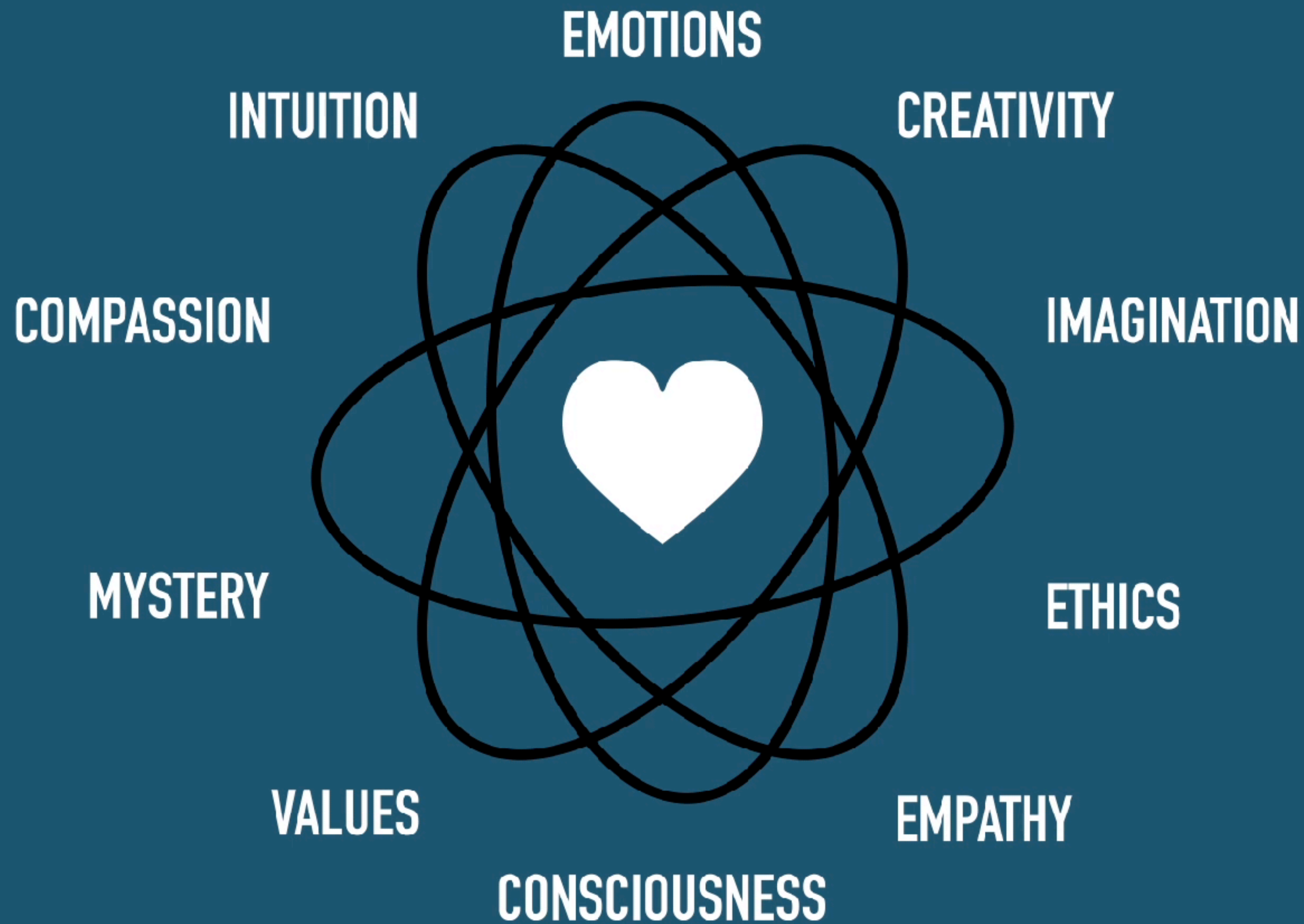
Soon, the question is no longer **if** technology can do something but **why?** and **who?**



Anything that can be digitized or automated, will be . . .



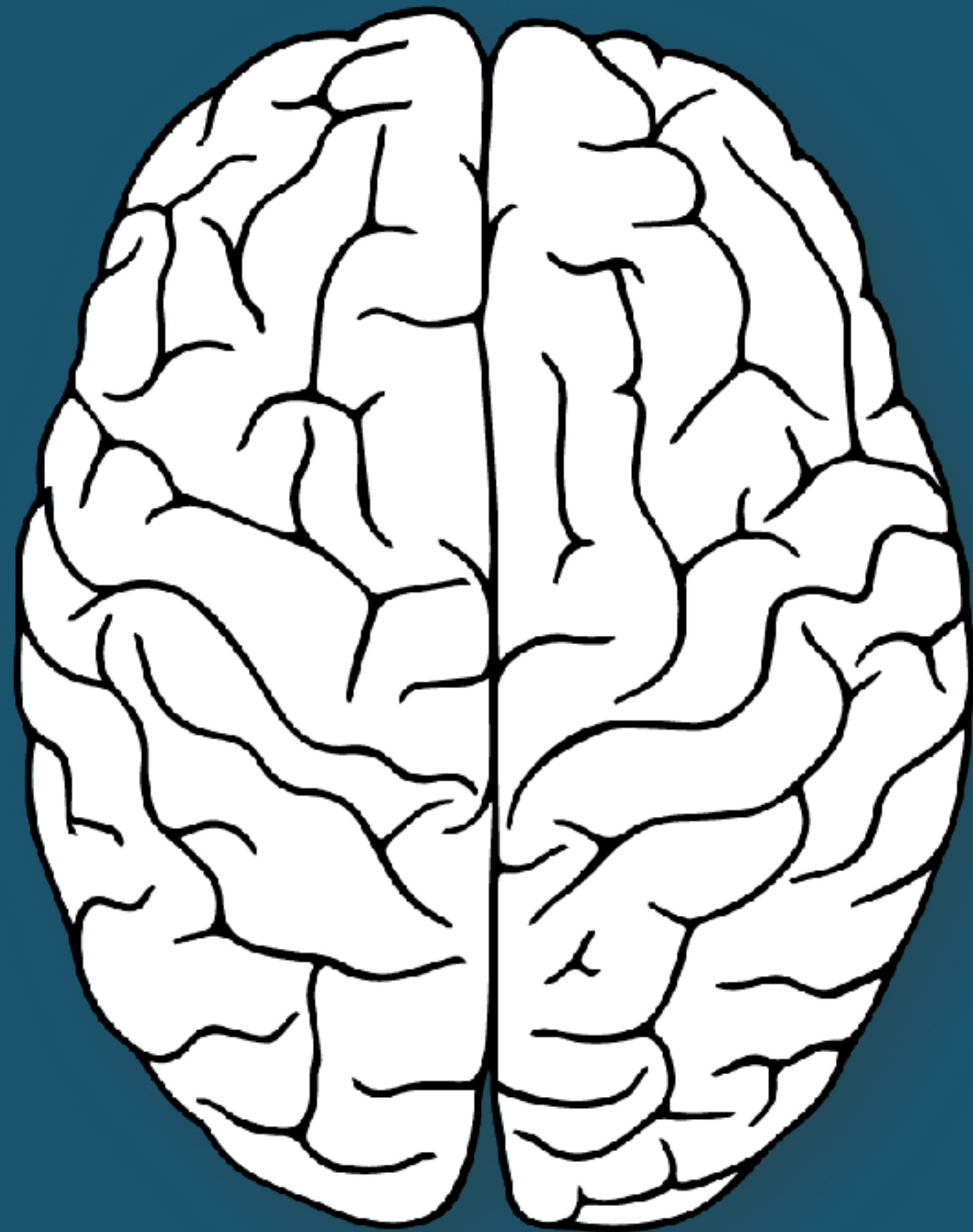
Yet anything that cannot be digitized or automated will become much more valuable



Working like a robot is clearly not our future!



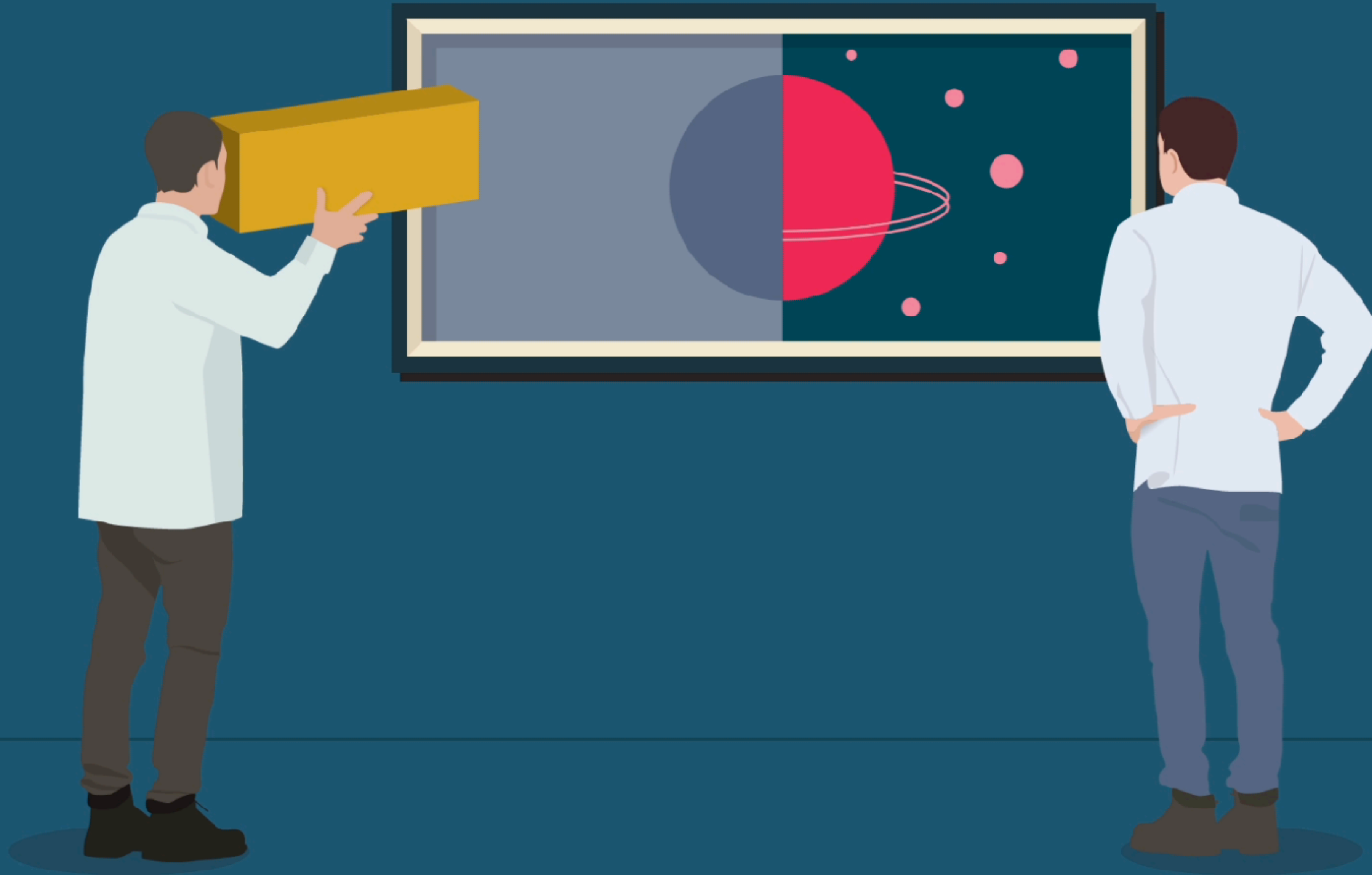
New skills will become mission-critical



2020

- 1 Complex Problem Solving
- 2 **Critical Thinking**
- 3 **Creativity**
- 4 People Management
- 5 Coordinating with Others
- 6 **Emotional Intelligence**
- 7 Judgement and Decision Making
- 8 Service Orientation
- 9 Negotiation
- 10 **Cognitive Flexibility**

The future is no longer a time-frame - it's a mindset!



**Use technology to increase human flourishing:
focus on magic, discourage manic, ban the toxic!**



MAGIC

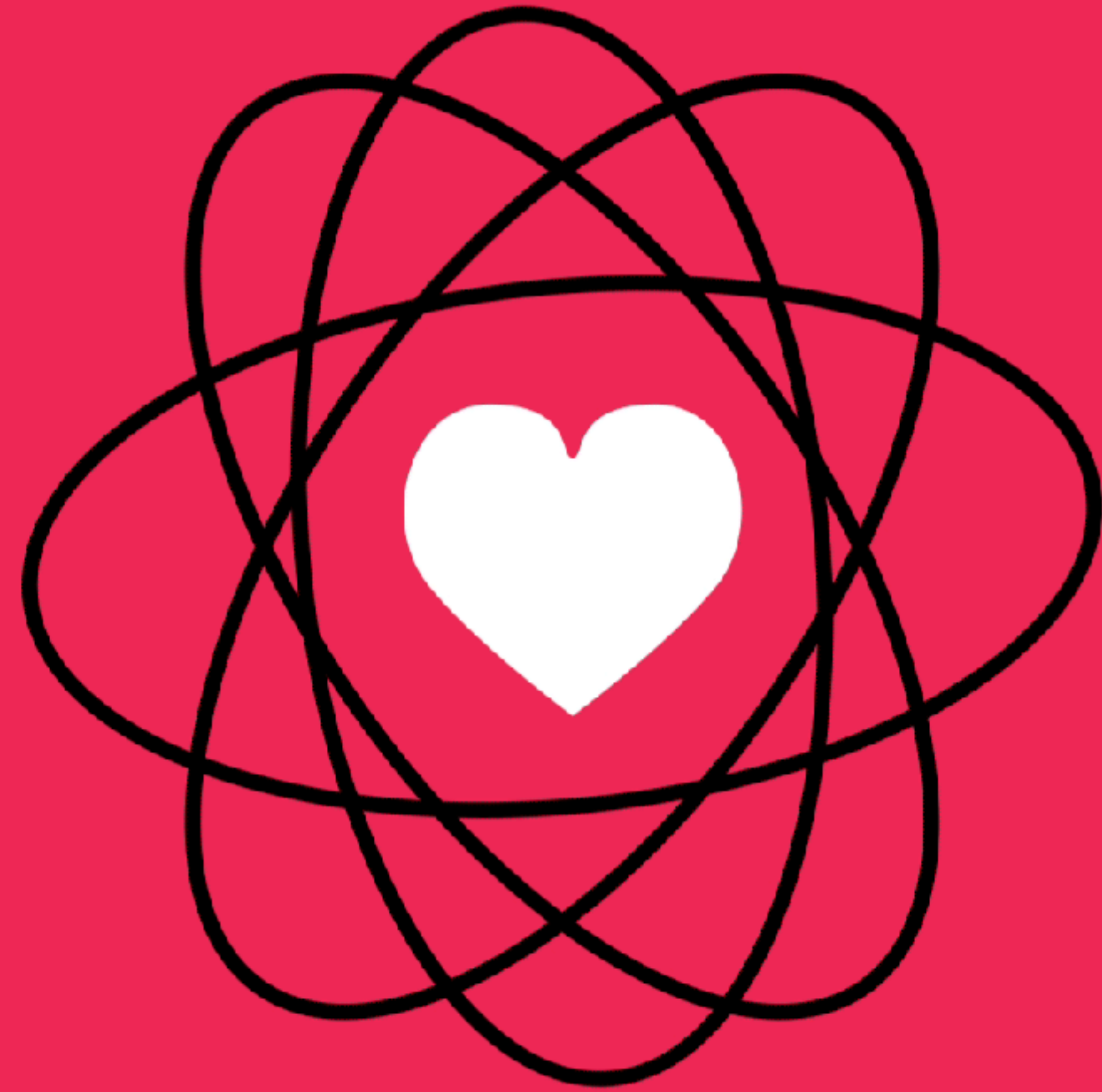
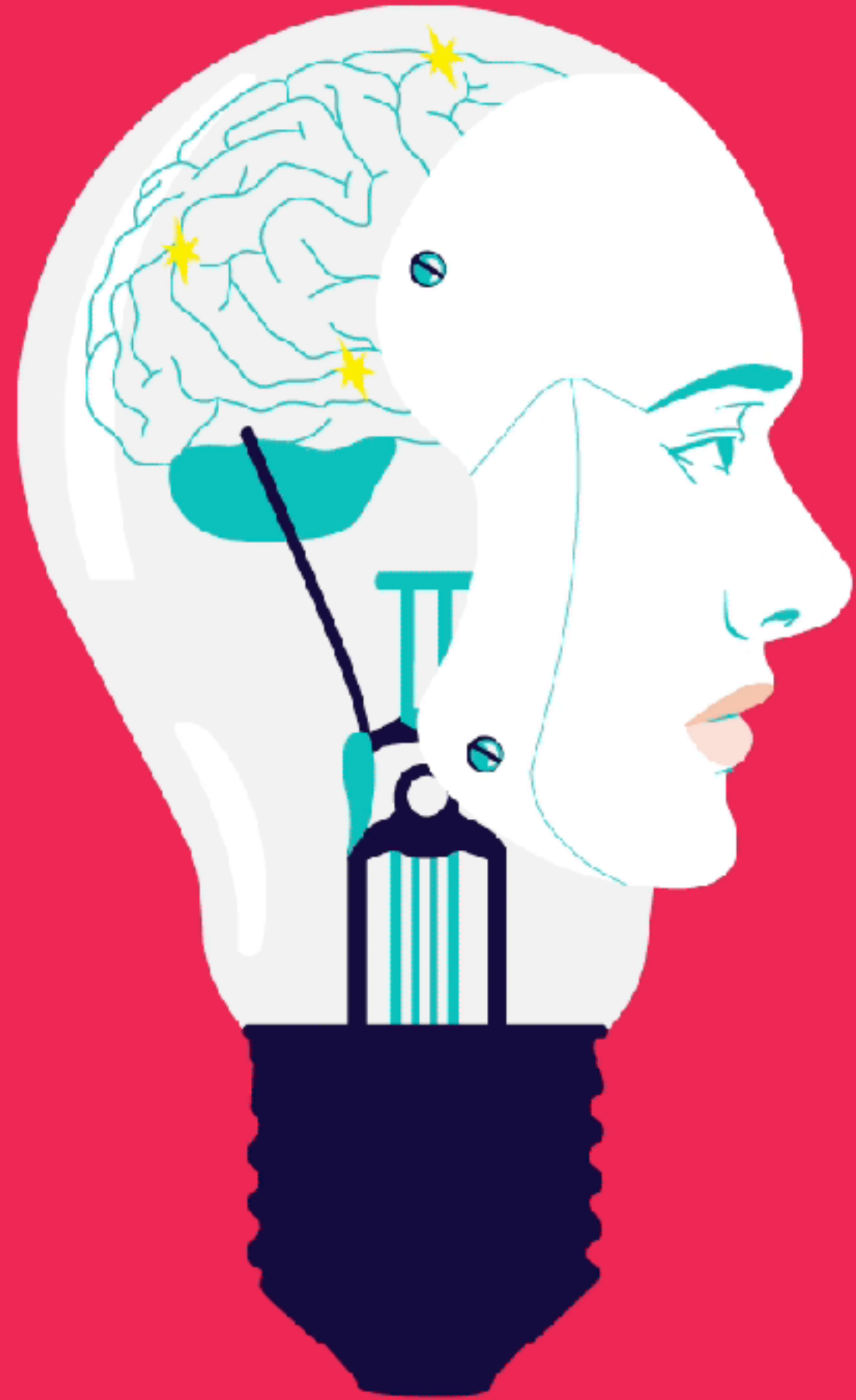


MANIC



Technology | Algorithms

Humanity | Androrithms



Invest in both, strive for balance!



TEAM HUMAN

Being on
Team
Human
is a key
differentiator!

The image features a stylized illustration of two robotic hands, rendered in dark blue with red outlines and yellow circular accents at the joints. The hands are positioned symmetrically, with their fingers pointing towards each other to form a frame around the central text. The background is a solid, vibrant pink. The text is centered within this frame in a clean, white, sans-serif font.

**Embrace technology
but don't become it!**



aitapa

Thanks for your
time and attention!



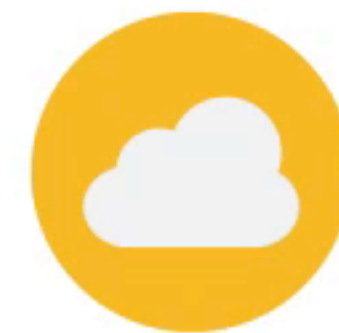
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