

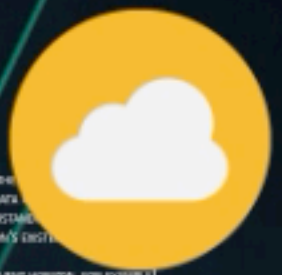
- 1. Etymology
- 2. Information theory approach
- 3. As sensory input
- 4. As representation and complexity
- 5. As an influence which leads to a transformation
- 6. As a property in physics
- 7. The application of information study
- 8. Technologically induced information
- 9. As records
- 10. Semiotics
- 11. See also
- 12. References
- 13. Further reading
- 14. External links

ARTIFICIAL INTELLIGENCE AND THE FUTURE OF HUMANITY

Information is that which informs. In other words, it is the answer to a question of some kind. It is thus related to data and knowledge, as data represents values attributed to parameters, and knowledge comprises understanding of real things or abstract concepts. [1] As it requires data, the information's existence is not necessarily coupled to its content. [2] Beyond an event horizon, for example, while in the case of knowledge, the information requires a cognitive organism. [2] At its most fundamental level, information is any processing of data and events within a system. [3] Information is conveyed either as the content of a message or through the organization of anything that which is perceived can be construed as a message into our brain, and in that sense, information is always conveyed as the content of a message.



techvshuman.com



gerd.cloud



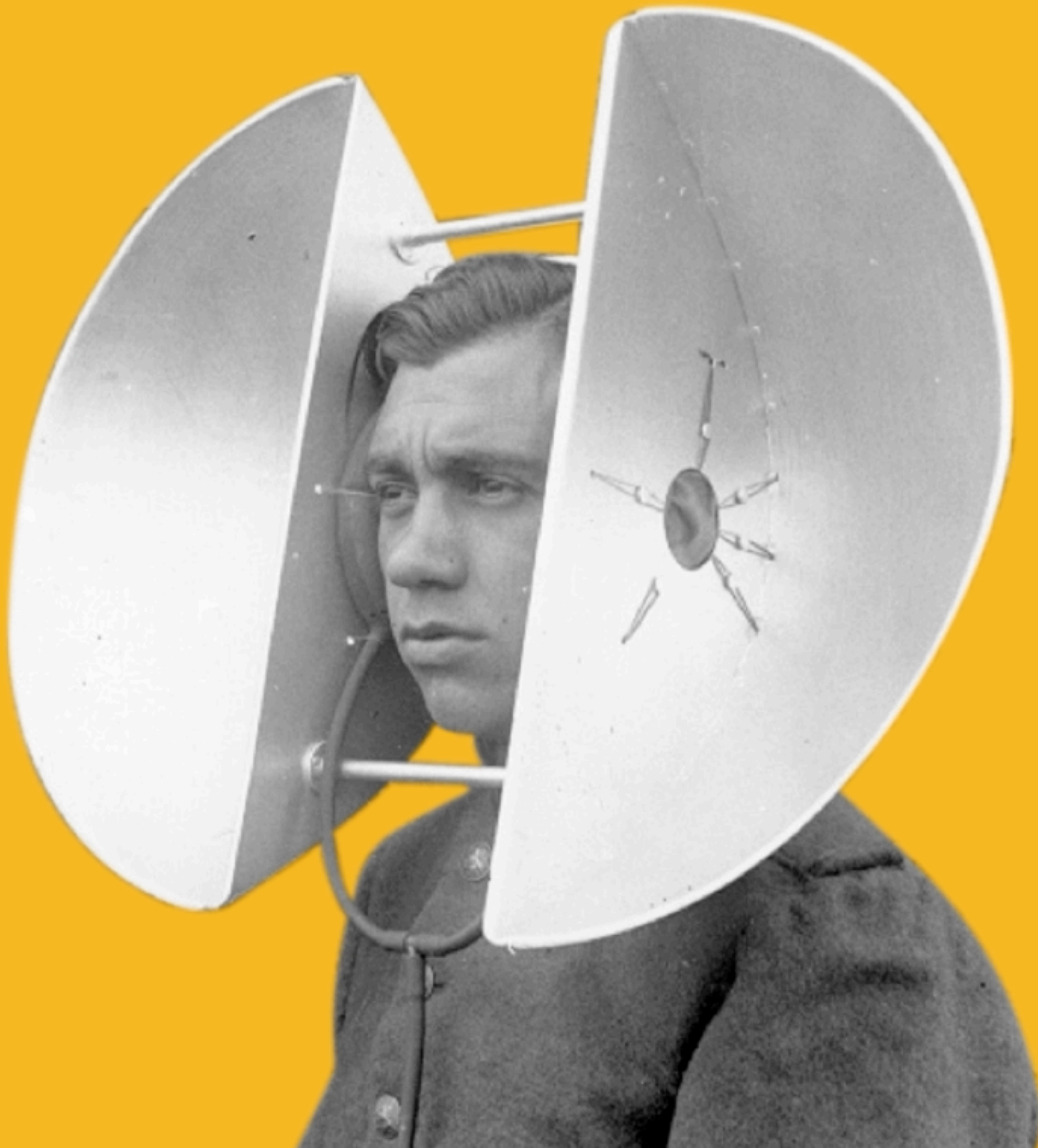
gerdtube.com



@gleonhard



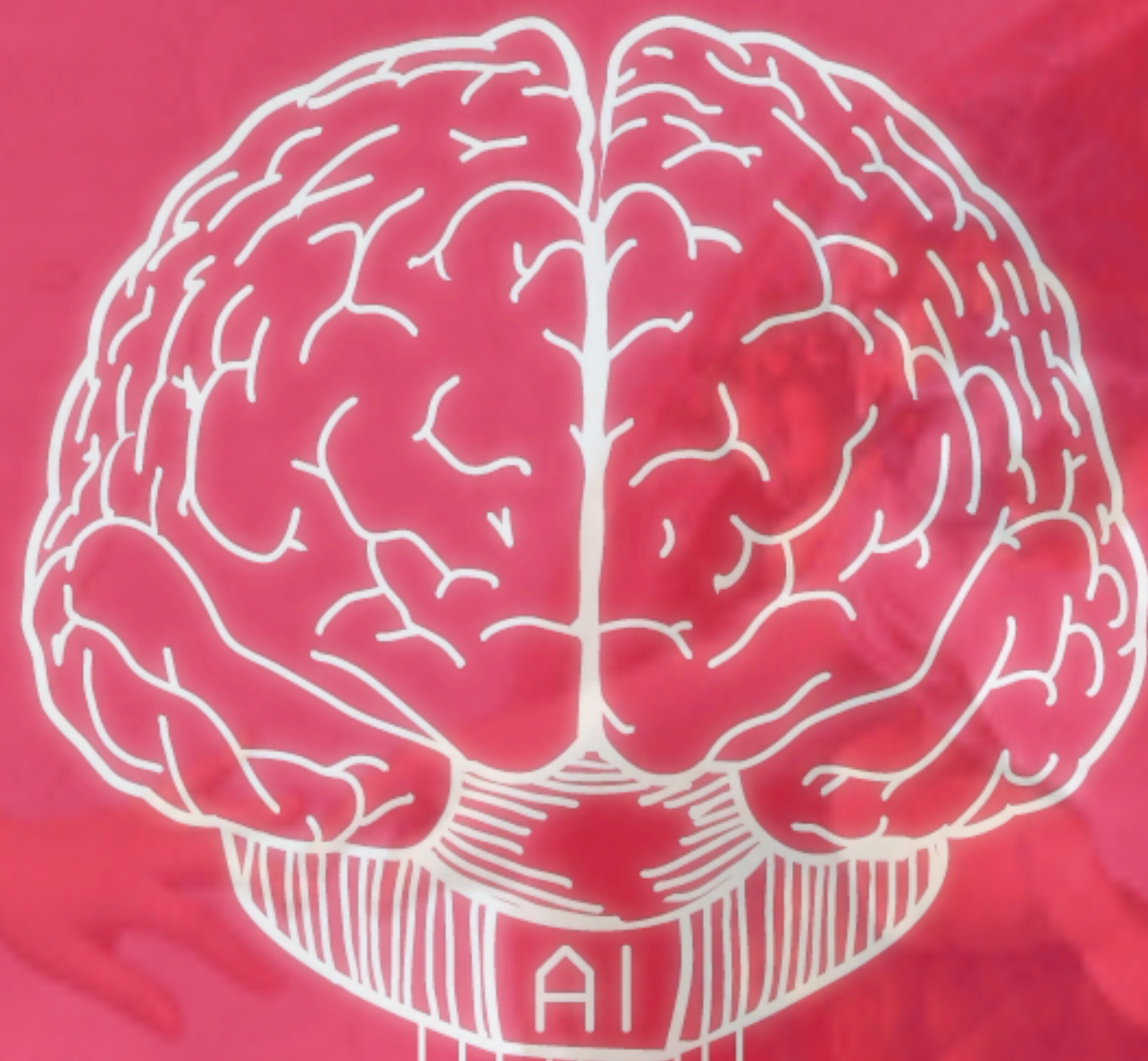
futuristgerd.com



Our world will change more in the next 20 years than in the previous 300 years



It could be heaven or it could be hell

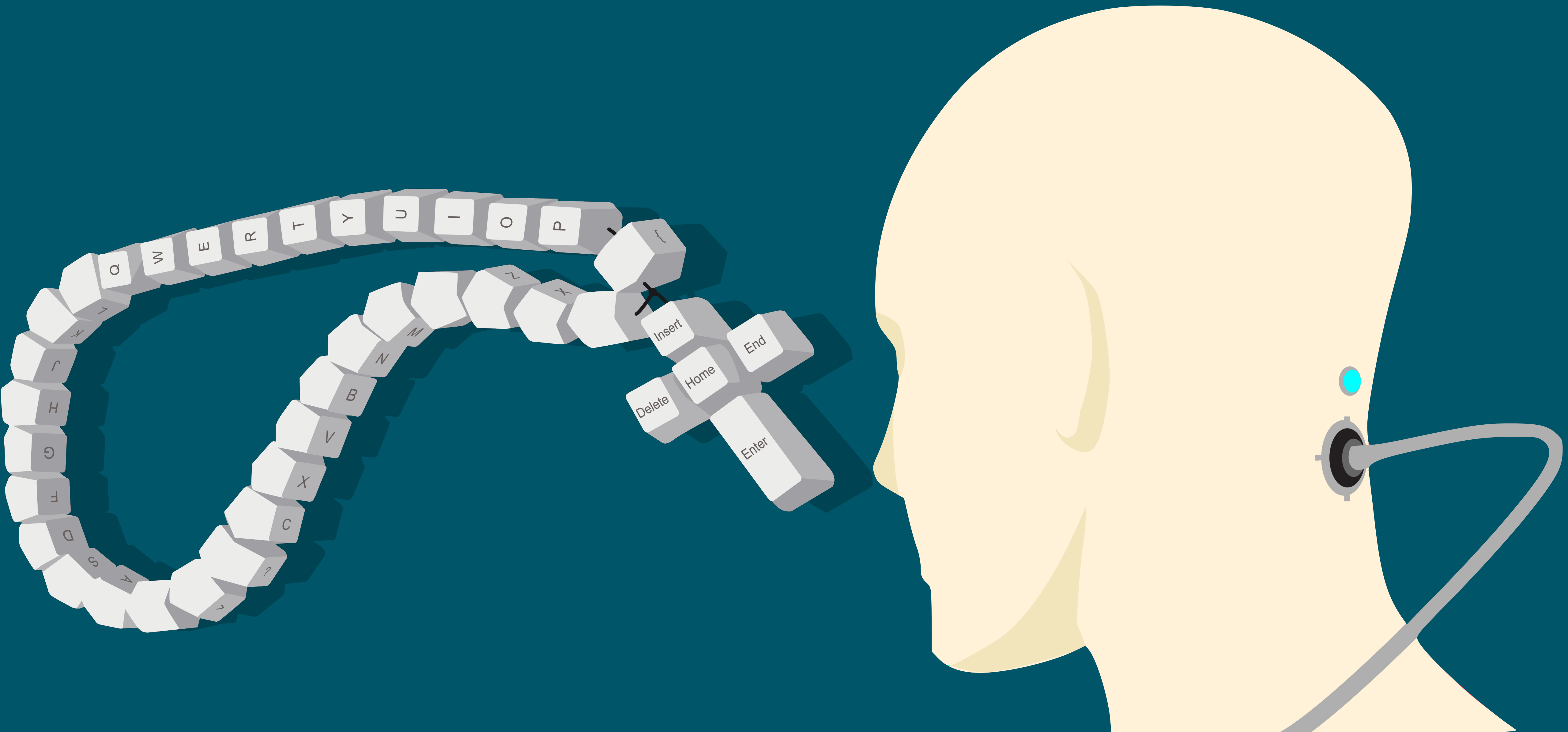


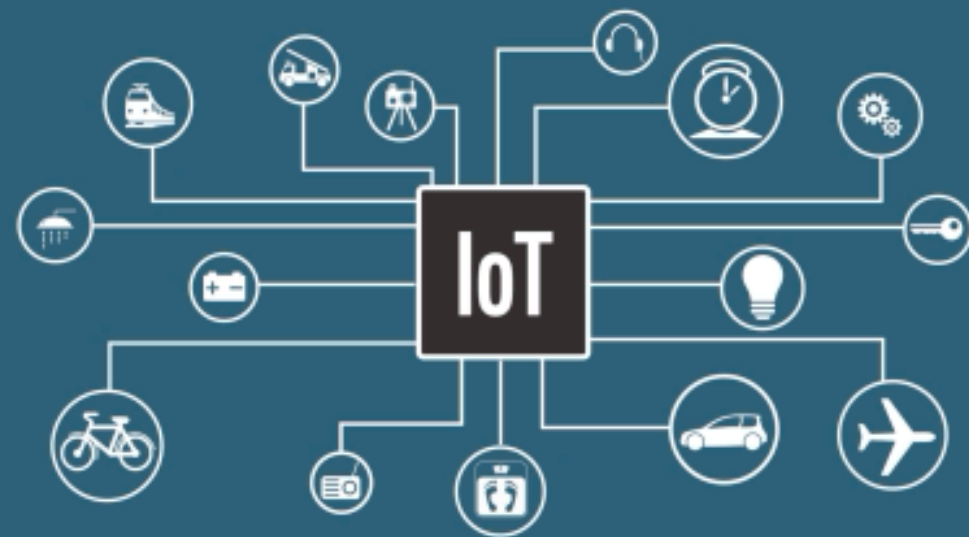
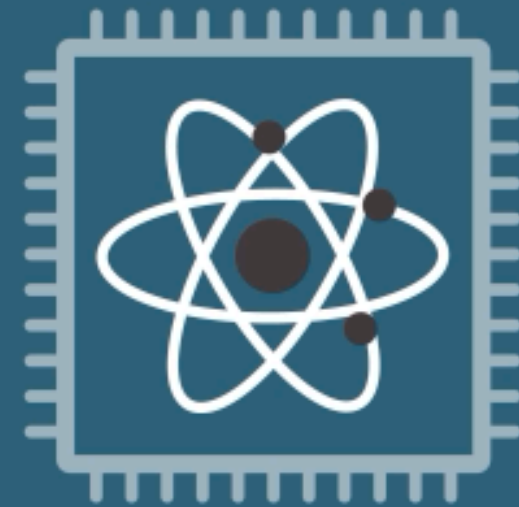
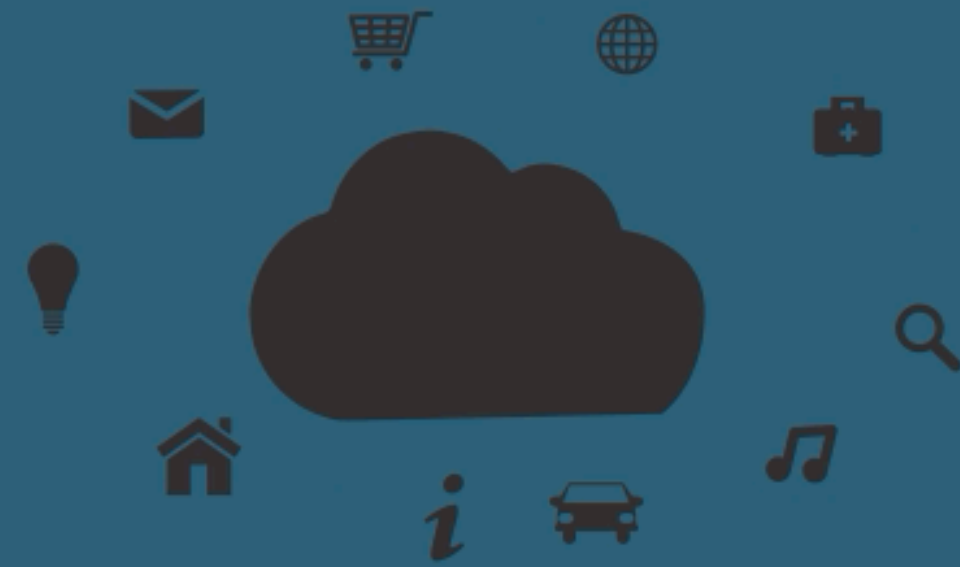
EVERYTHING EVERYWHERE EVERYONE



The future is better than we think . . . IF . . .

...we don't confuse the tool with the purpose

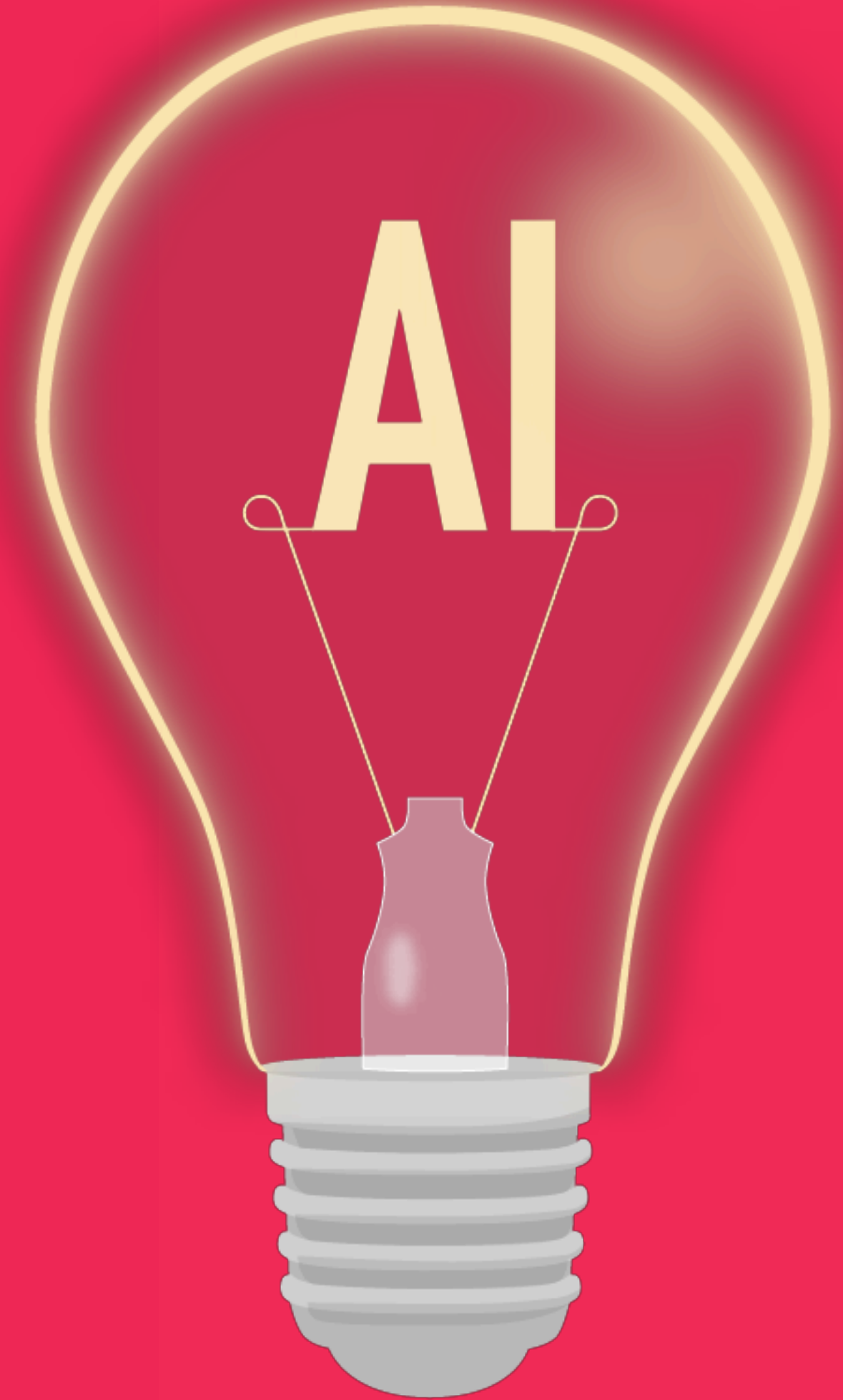




DATA every-where/thing
CLOUD everything
SMART everything
CONNECTED everything
COMPUTE anything
MAKE anything
TRANSACTION anything
SEE everything

1 2 4 8 16 32 64 128

Data is the new oil, and Artificial Intelligence is the new electricity



Public / Private Internet Companies, Ranked by Market Valuation (5/29/18)

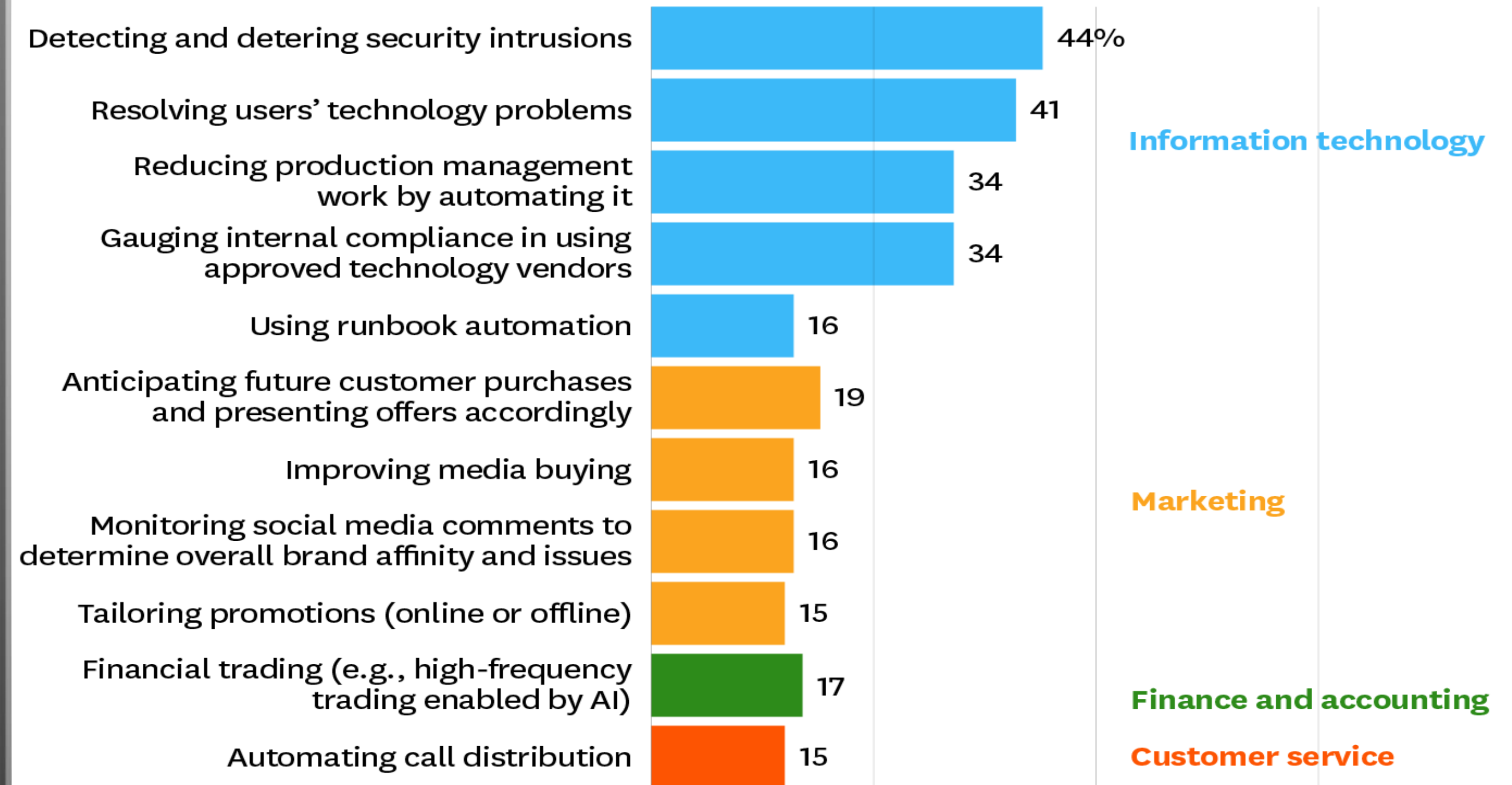
			Market Value (\$B)	
Rank 2018	Company	Region	2013	2018
1)	Apple	USA	\$418	\$924
2)	Amazon	USA	121	783
3)	Microsoft	USA	291	753
4)	Google / Alphabet	USA	288	739
5)	Facebook	USA	56	538
6)	Alibaba	China	--	509
7)	Tencent	China	71	483
8)	Netflix	USA	13	152
9)	Ant Financial	China	--	150
10)	eBay + PayPal*	USA	71	133
11)	Booking Holdings	USA	41	100
12)	Salesforce.com	USA	25	94
13)	Baidu	China	34	84
14)	Xiaomi	China	--	75
15)	Uber	USA	--	72
16)	Didi Chuxing	China	--	56
17)	JD.com	China	--	52
18)	Airbnb	USA	--	31
19)	Meituan-Dianping	China	--	30
20)	Toutiao	China	--	30
Total			\$1,429	\$5,788



Artificial 'Intelligence'

How Companies Around the World Are Using Artificial Intelligence

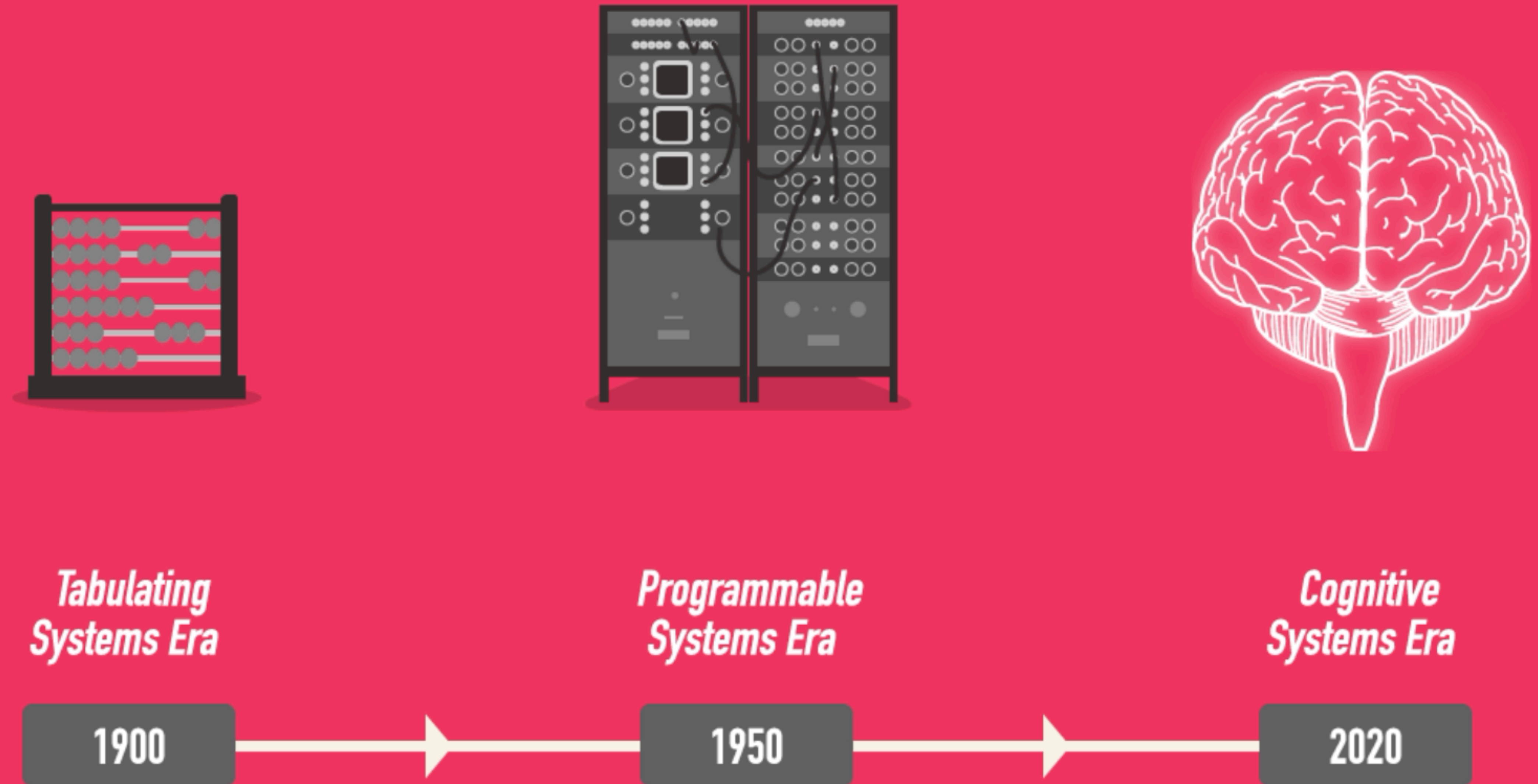
IT activities are the most popular.



SOURCE TATA CONSULTANCY SERVICES SURVEY OF 835 COMPANIES, 2017

© HBR.ORG

AI: MACHINES THAT CAN HEAR, SEE, SPEAK, LEARN... THINK?



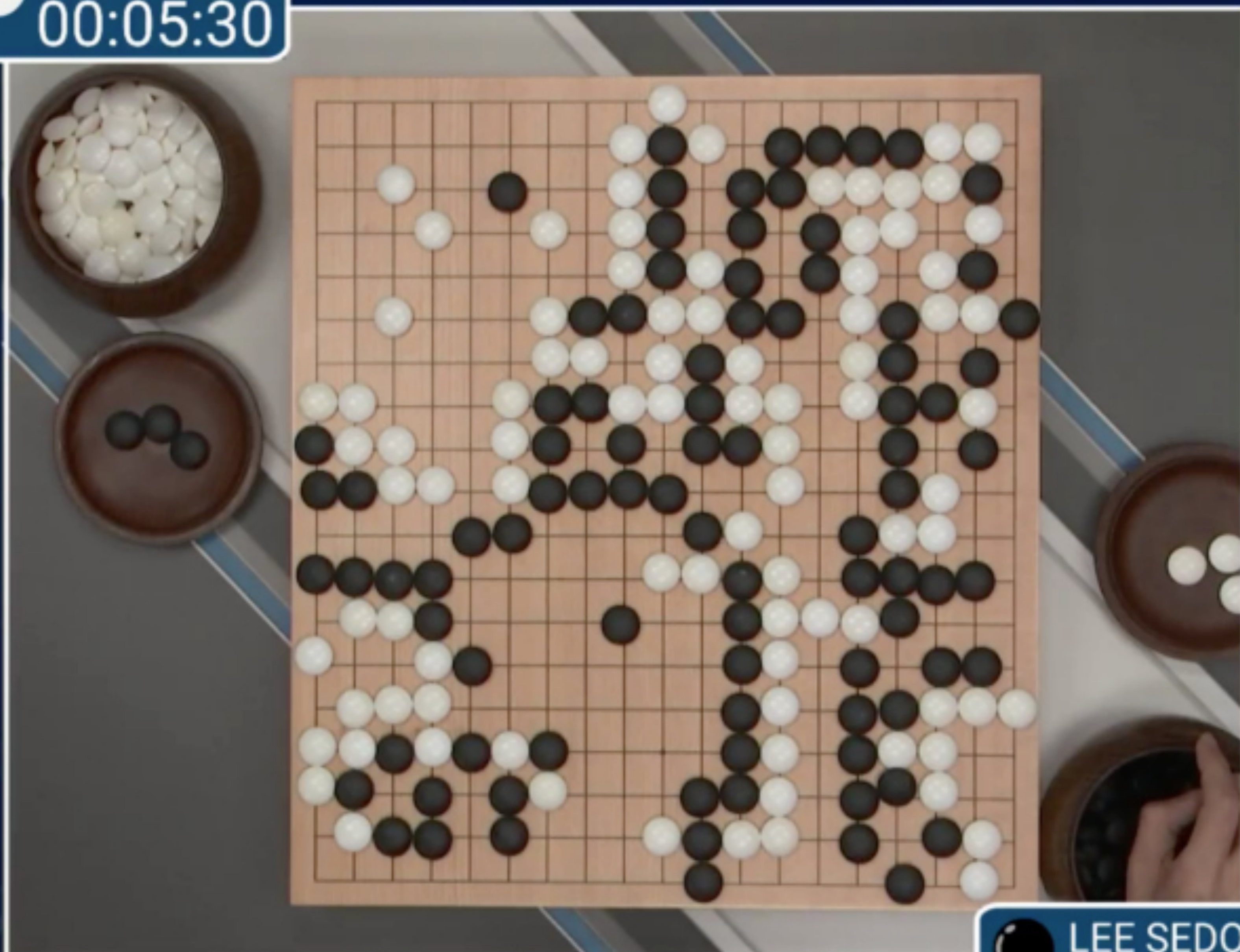
“Machine learning is the science of giving computers the ability to learn and find insights without explicitly programming the machines on what to do”



“Deep learning (also known as deep structured learning or hierarchical learning) is part of machine learning methods. Most modern deep learning models are based on artificial neural networks”



● ALPHAGO
00:05:30

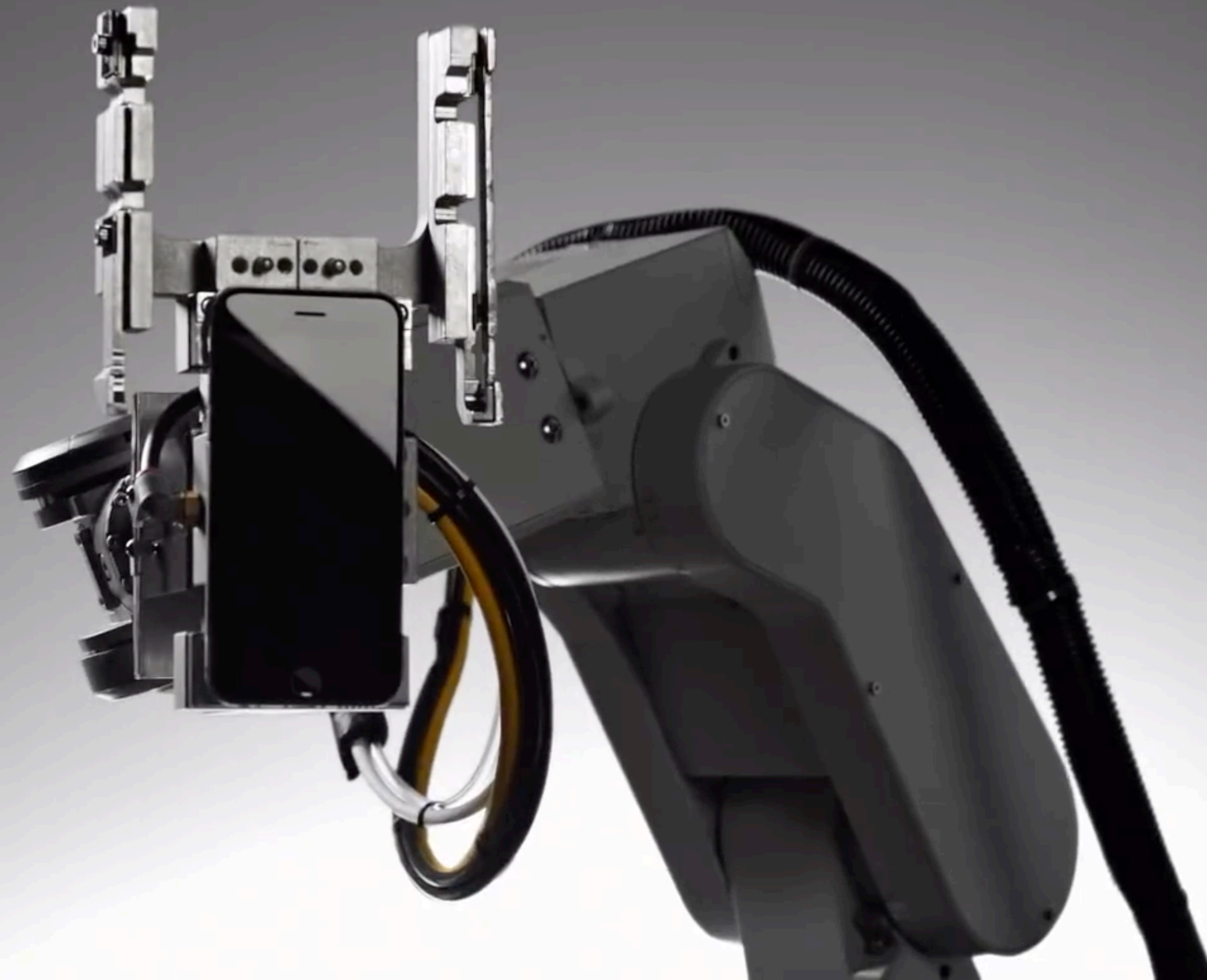


Google DeepMind
Challenge Match



● LEE SEDOL
00:29:59

Example: Apple LIAM



Example: UPS ORION

UPS



ORION:
ON ROAD INTEGRATED
OPTIMIZATION & NAVIGATION



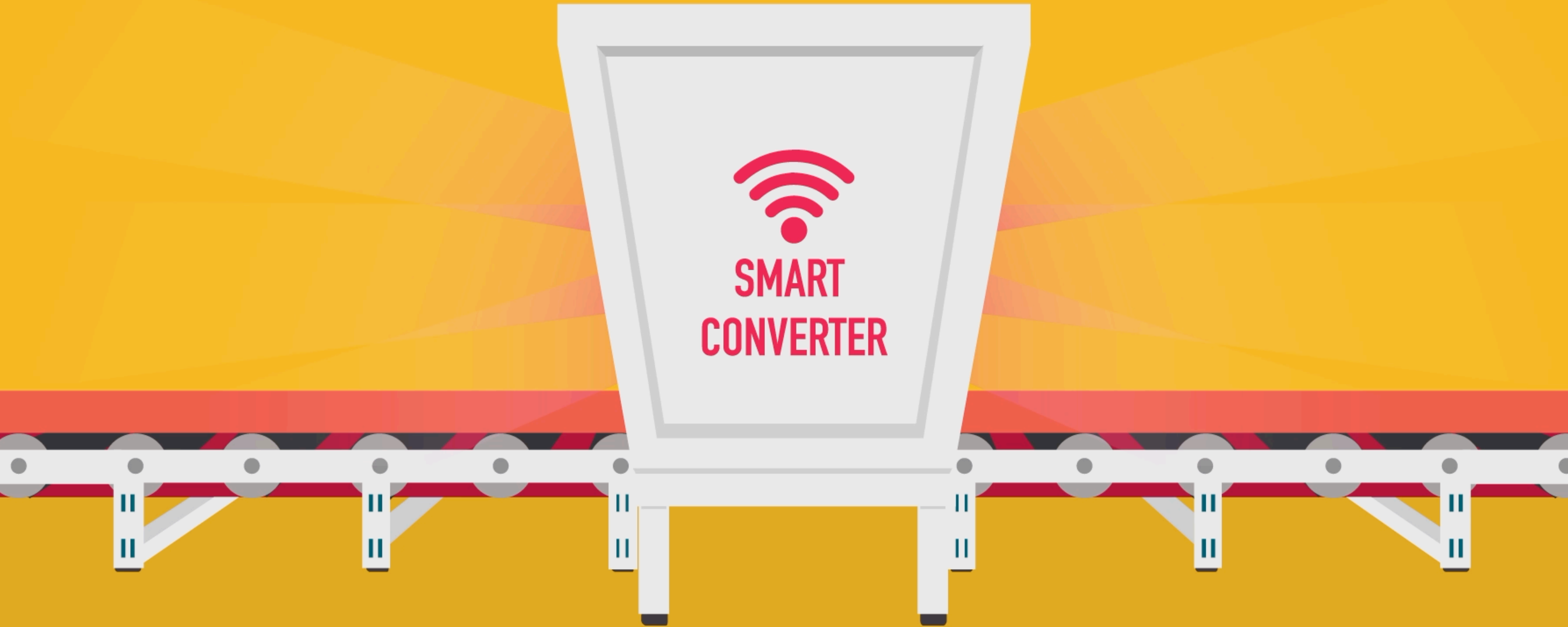
The image features three lightbulbs arranged horizontally against a dark blue background. Each lightbulb has a white base and a glowing filament. The first lightbulb on the left is yellow and contains the text 'IA'. The middle lightbulb is orange and contains the text 'AI'. The third lightbulb on the right is red and contains the text 'AGI'. A vertical red line runs through the center of the image, passing between the middle and right lightbulbs.

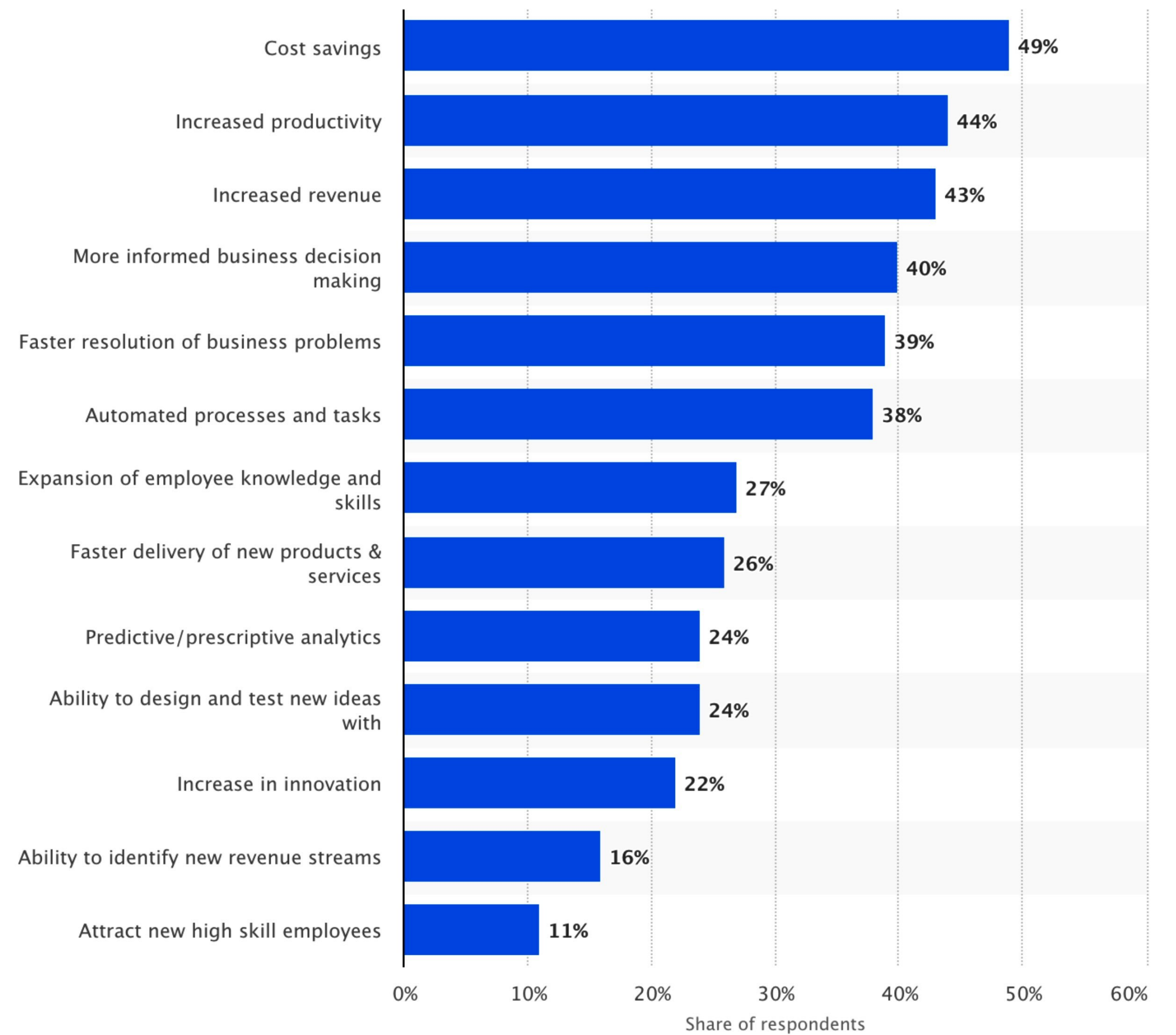
IA

AI

AGI

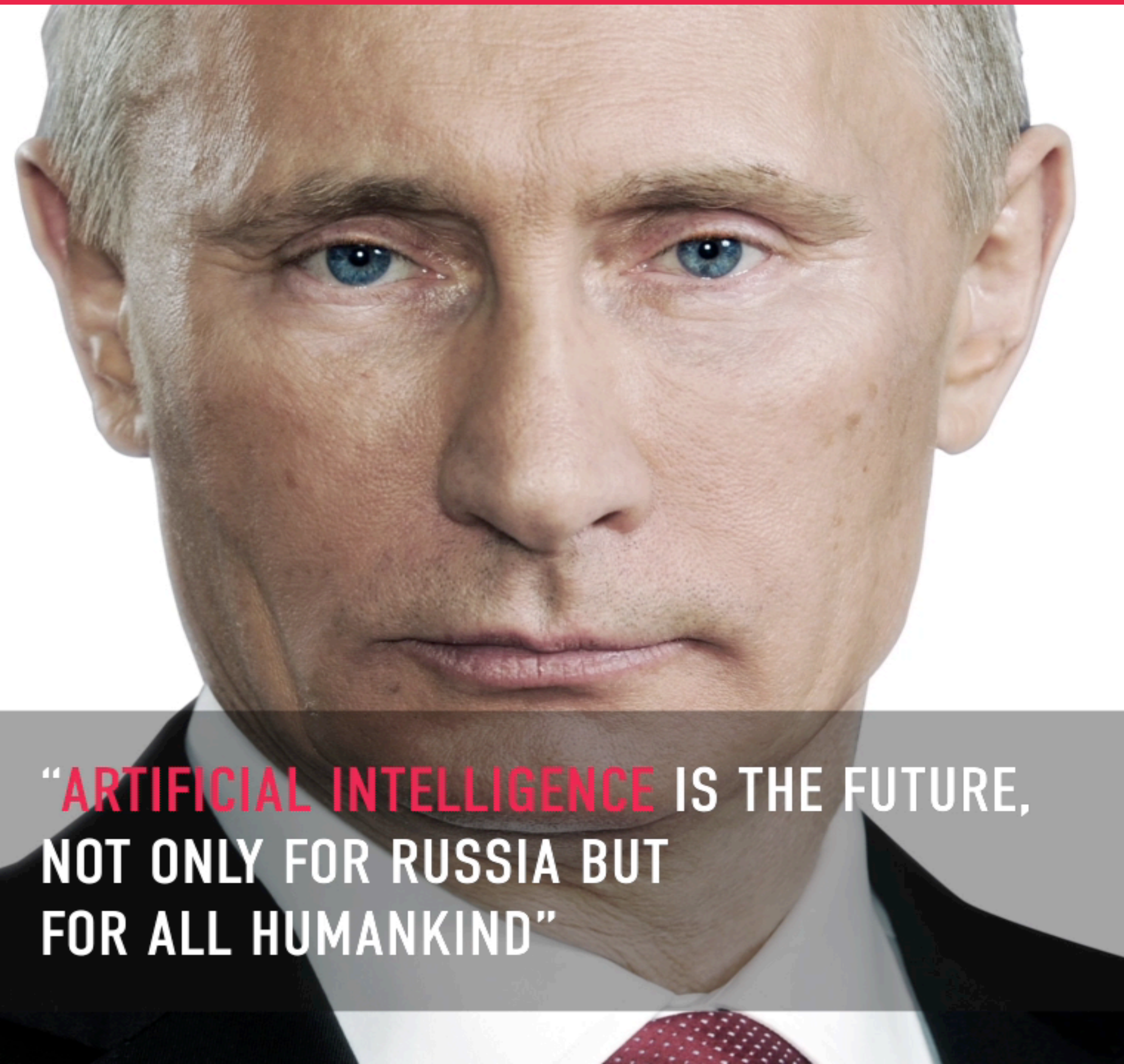
Smart everything, everywhere: IA (not AI)



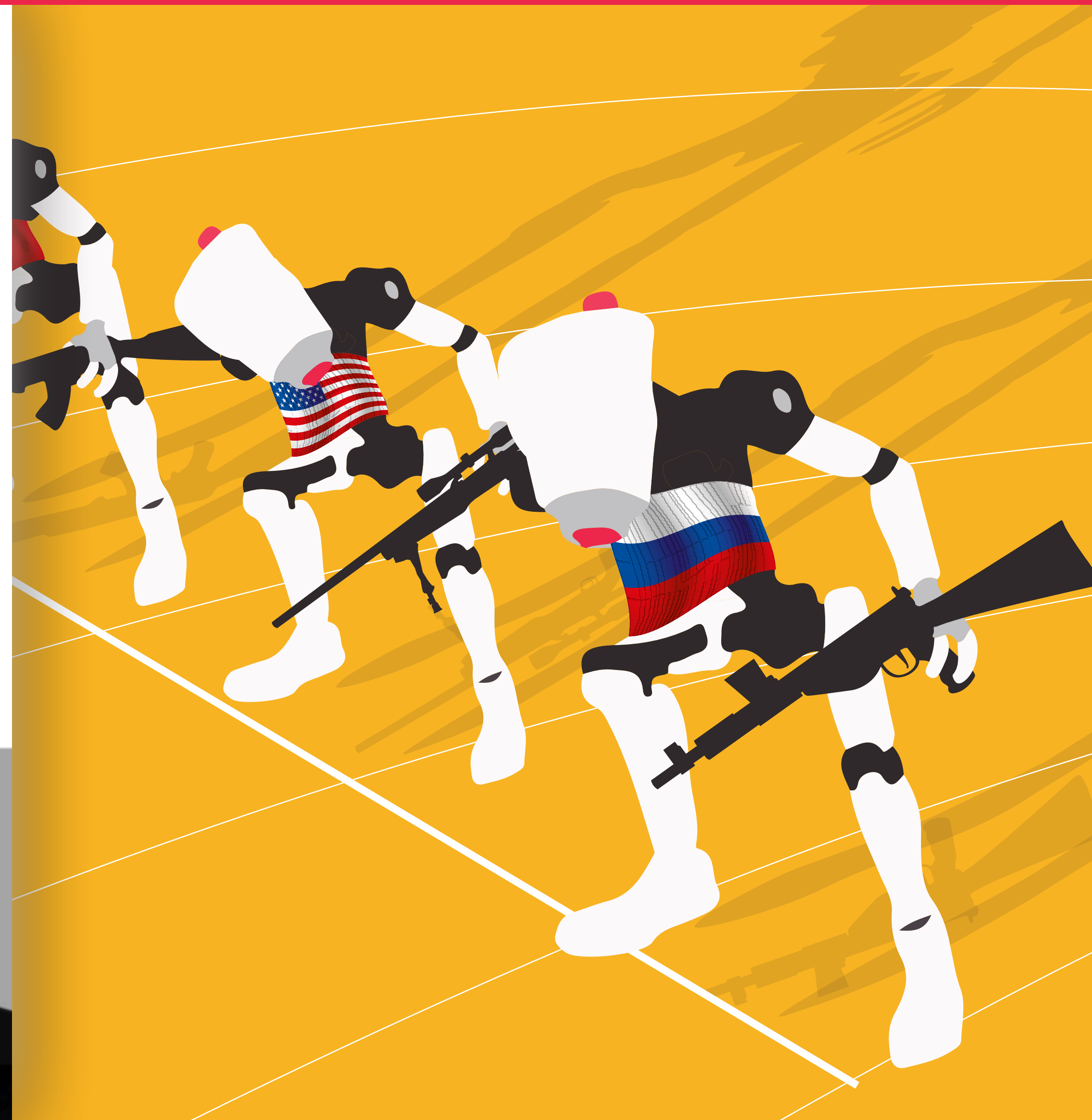


Benefits of AI for Retail (Survey). Statista (2018).

Technology is a great servant but a terrible master



“ARTIFICIAL INTELLIGENCE IS THE FUTURE,
NOT ONLY FOR RUSSIA BUT
FOR ALL HUMANKIND”



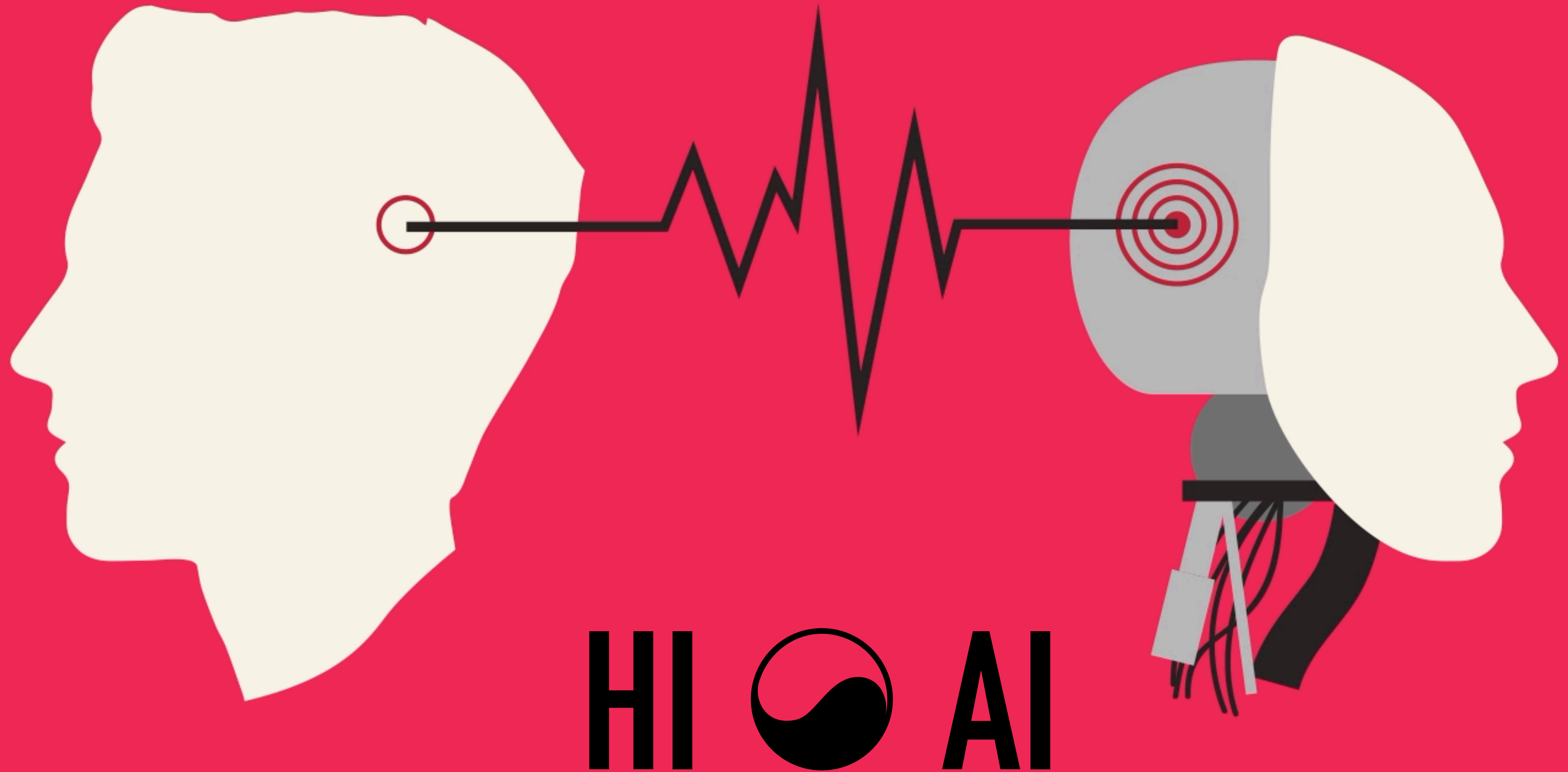


Becoming super-human: be careful what you wish for!

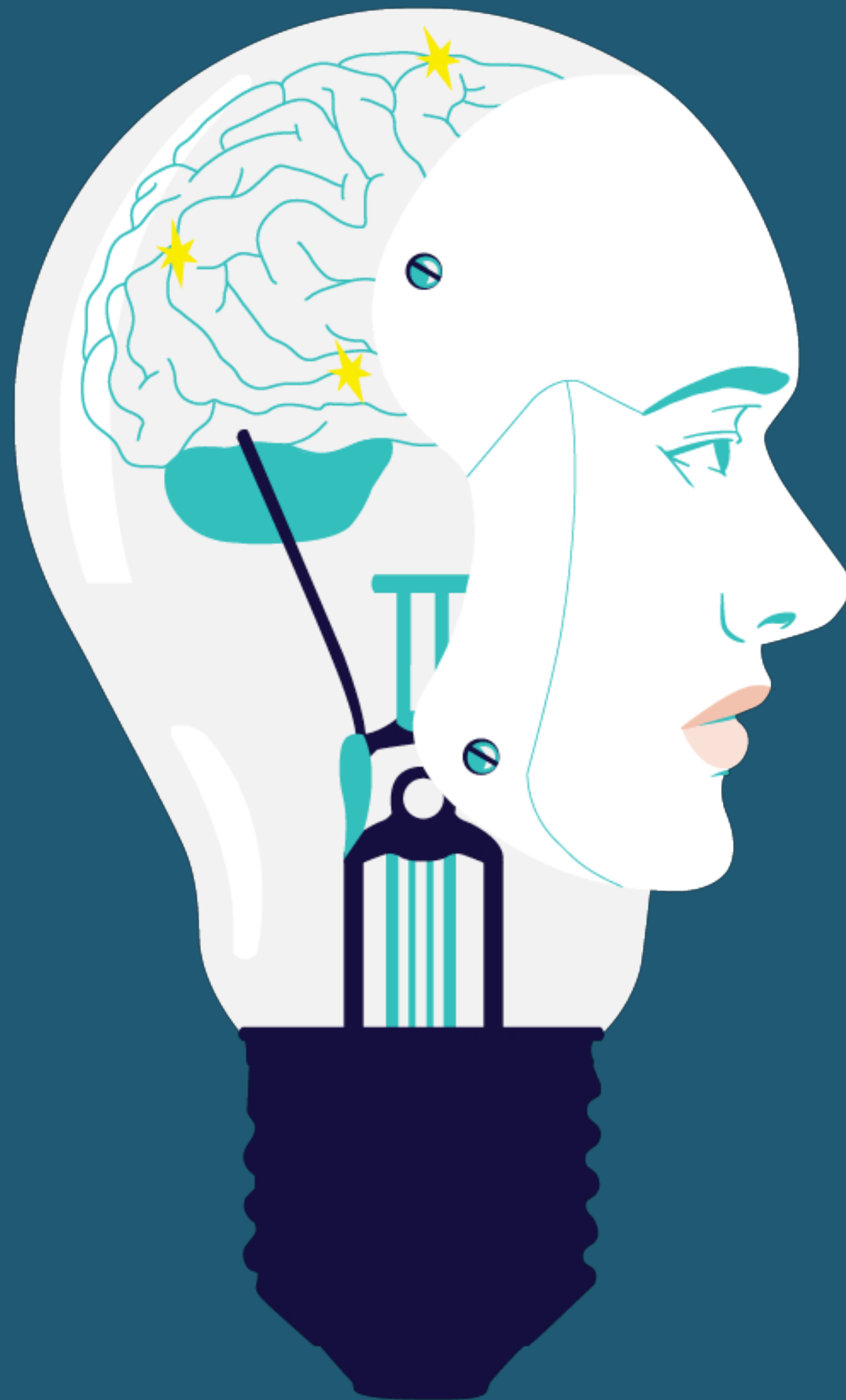


Humans and Machines

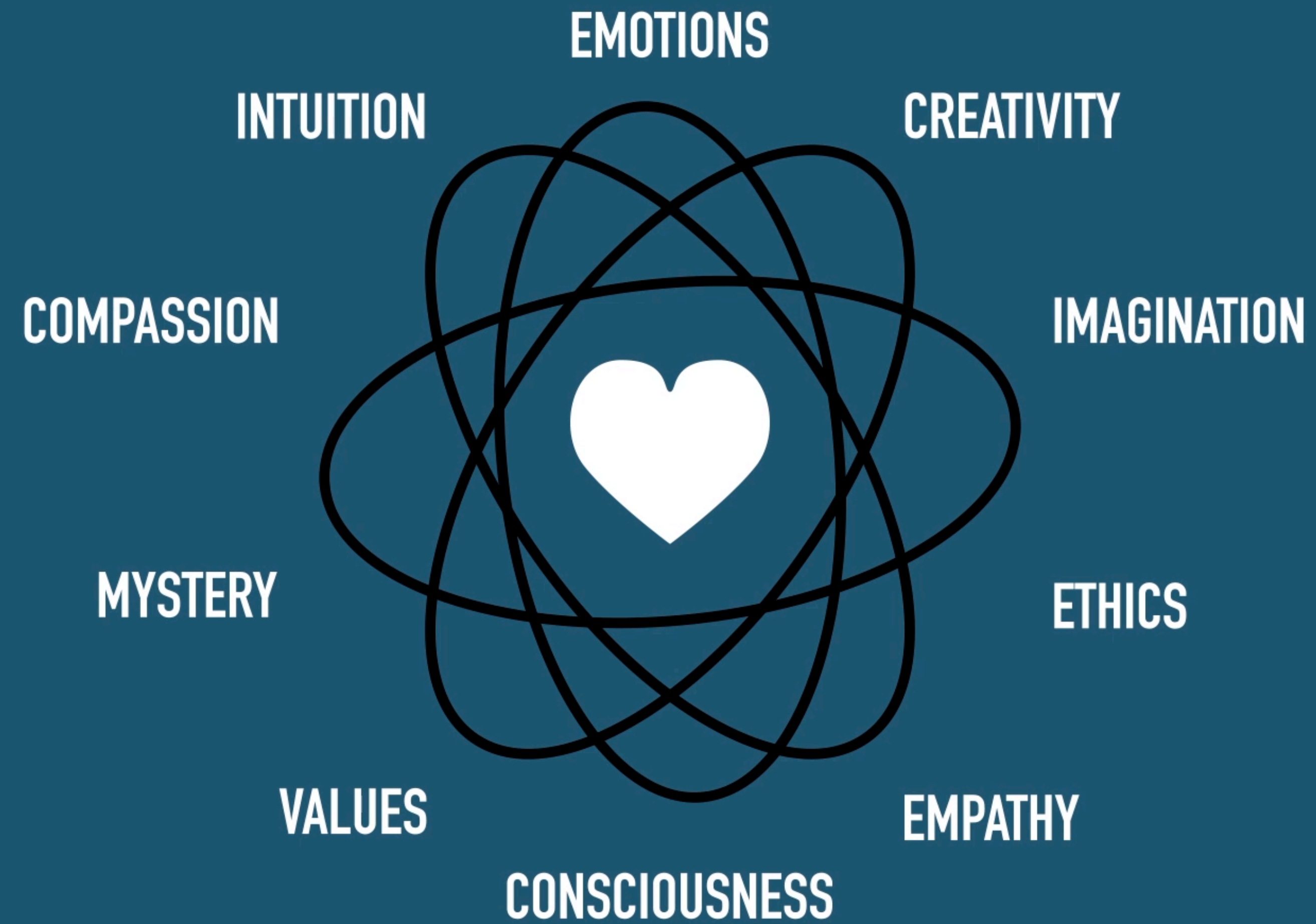
Humanity Technology



Algorithms



Androrithms



Technology is exponential, but humans are not. What matters most to us is not 'technology'!



POSITIVITY



ENGAGEMENT



RELATIONSHIPS

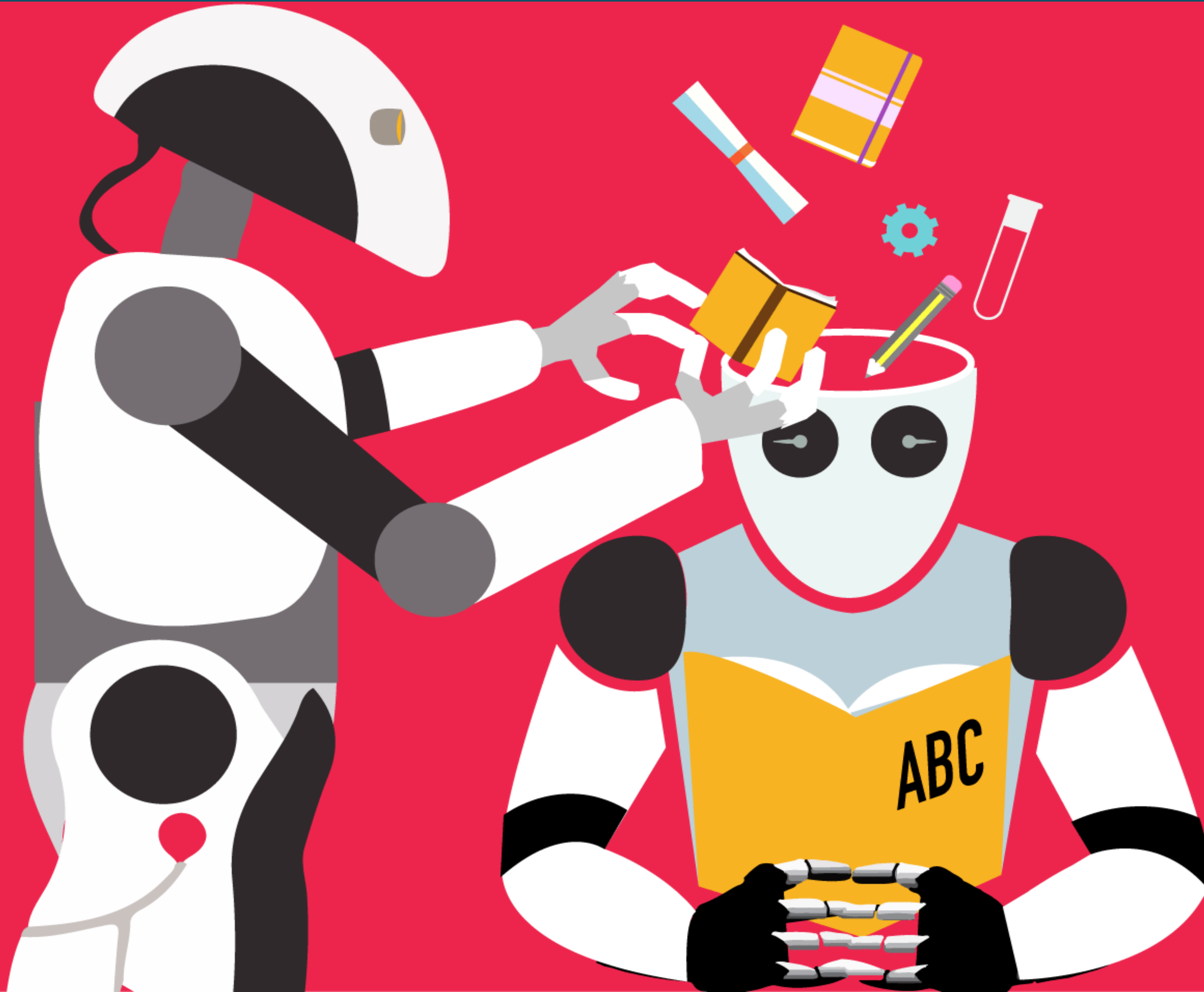


MEANING



ACCOMPLISHMENT

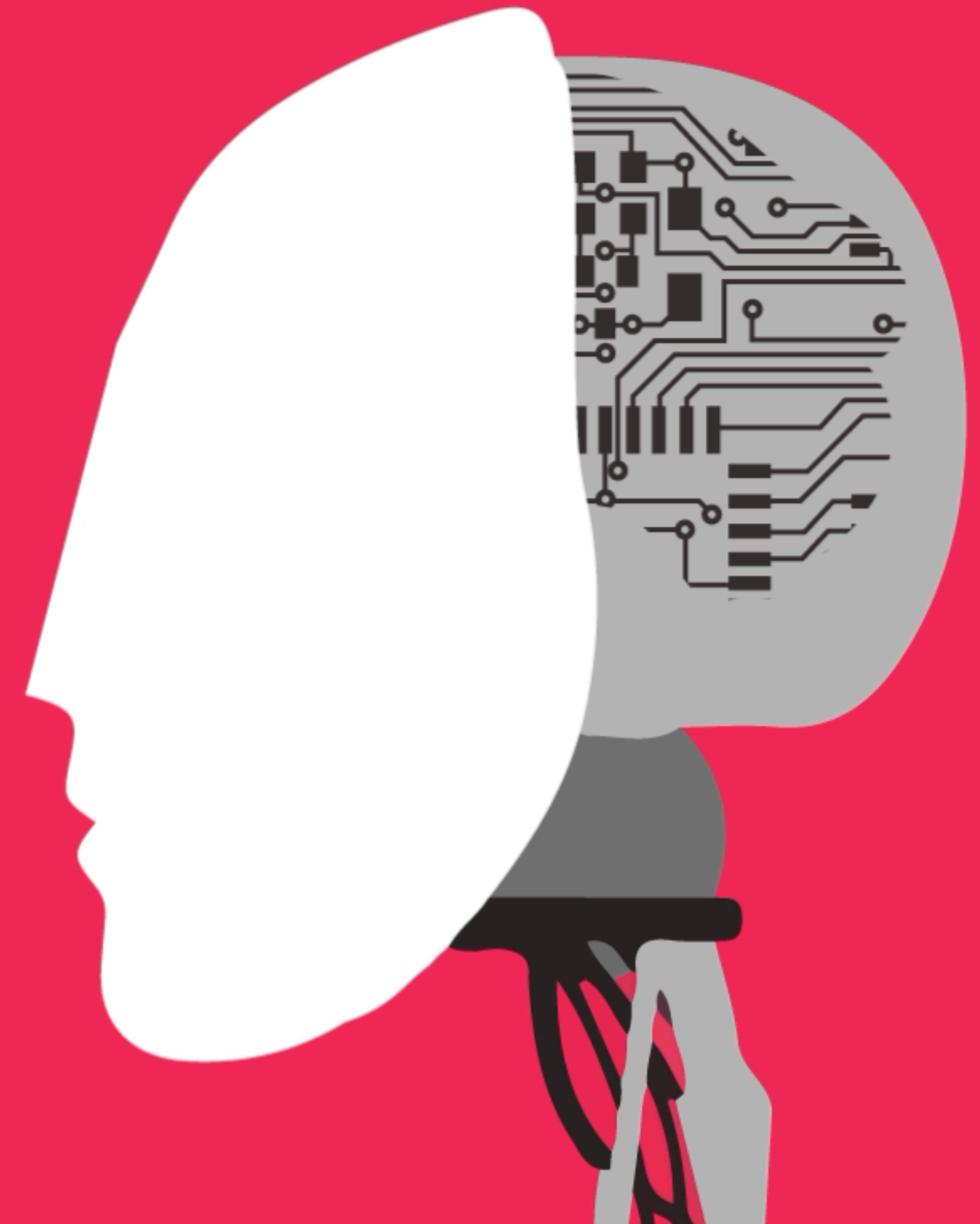
Machines don't understand 95% of what makes us human



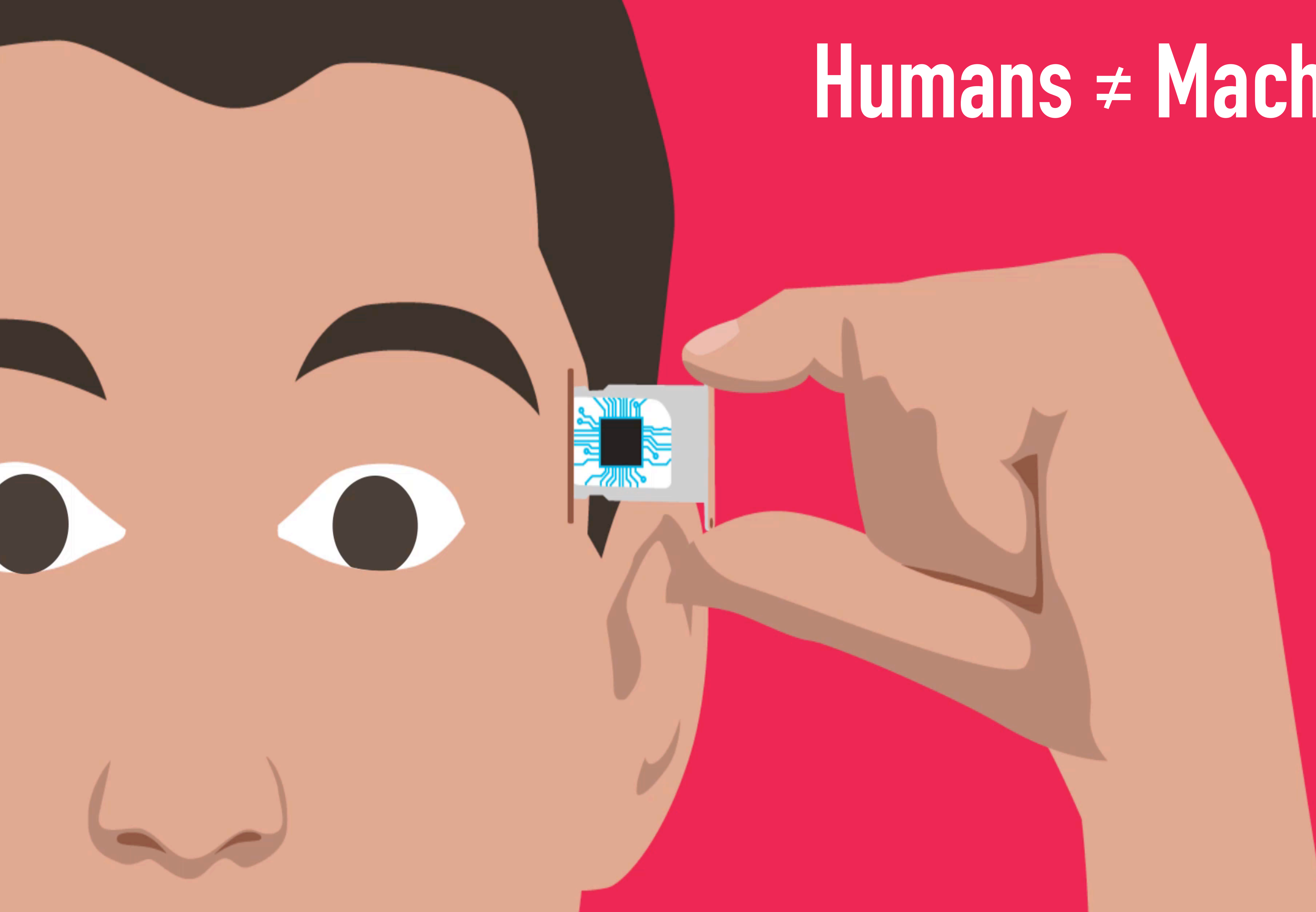
Data and Information
is not Knowledge*
is not Understanding
is not Wisdom
is not Purpose

“We are least aware of what our minds do best. The most difficult things for machines to emulate are those that are unconscious” (Moravec, Minsky et al)

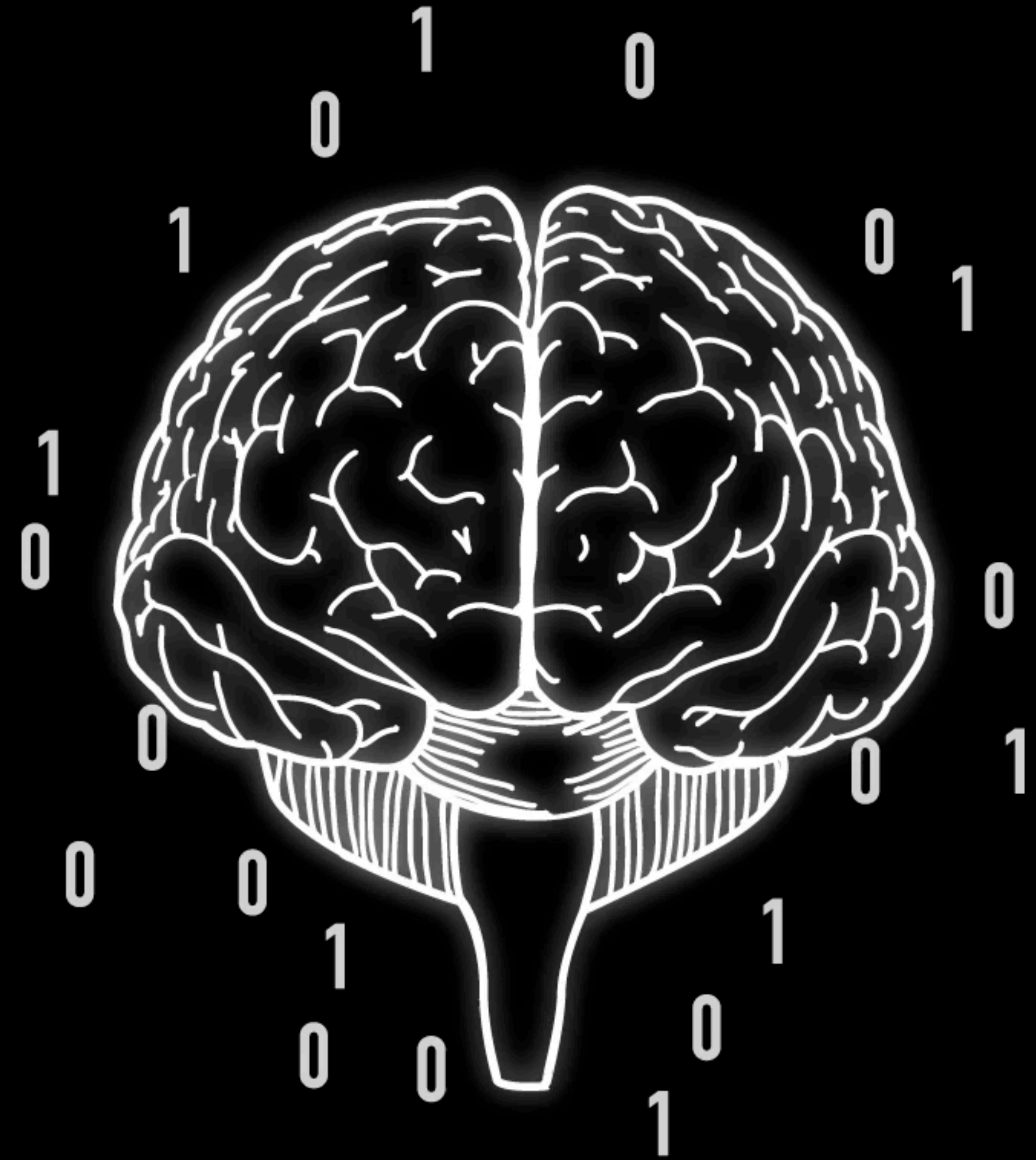
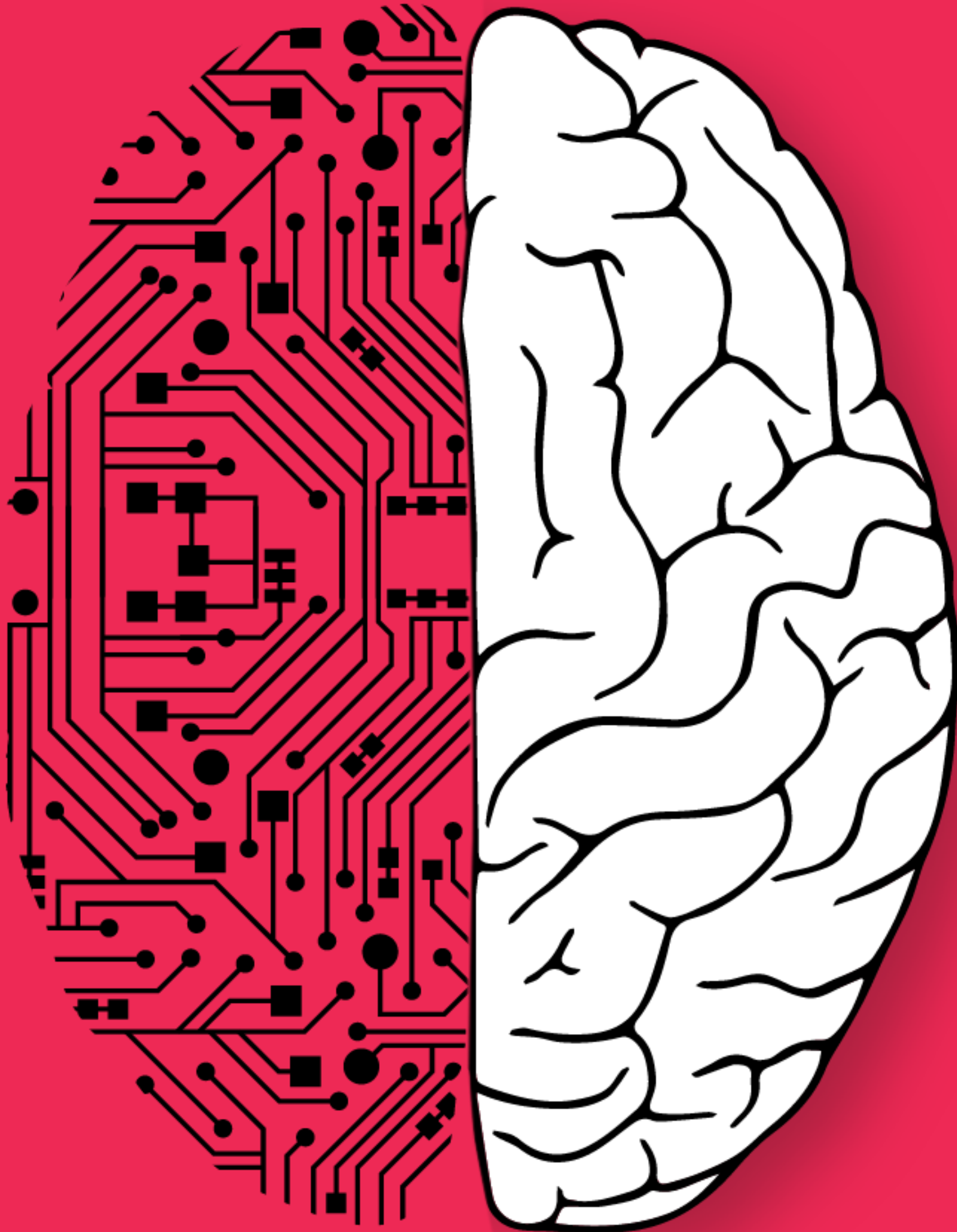
Would we WANT machines to ‘emulate the unconscious’?



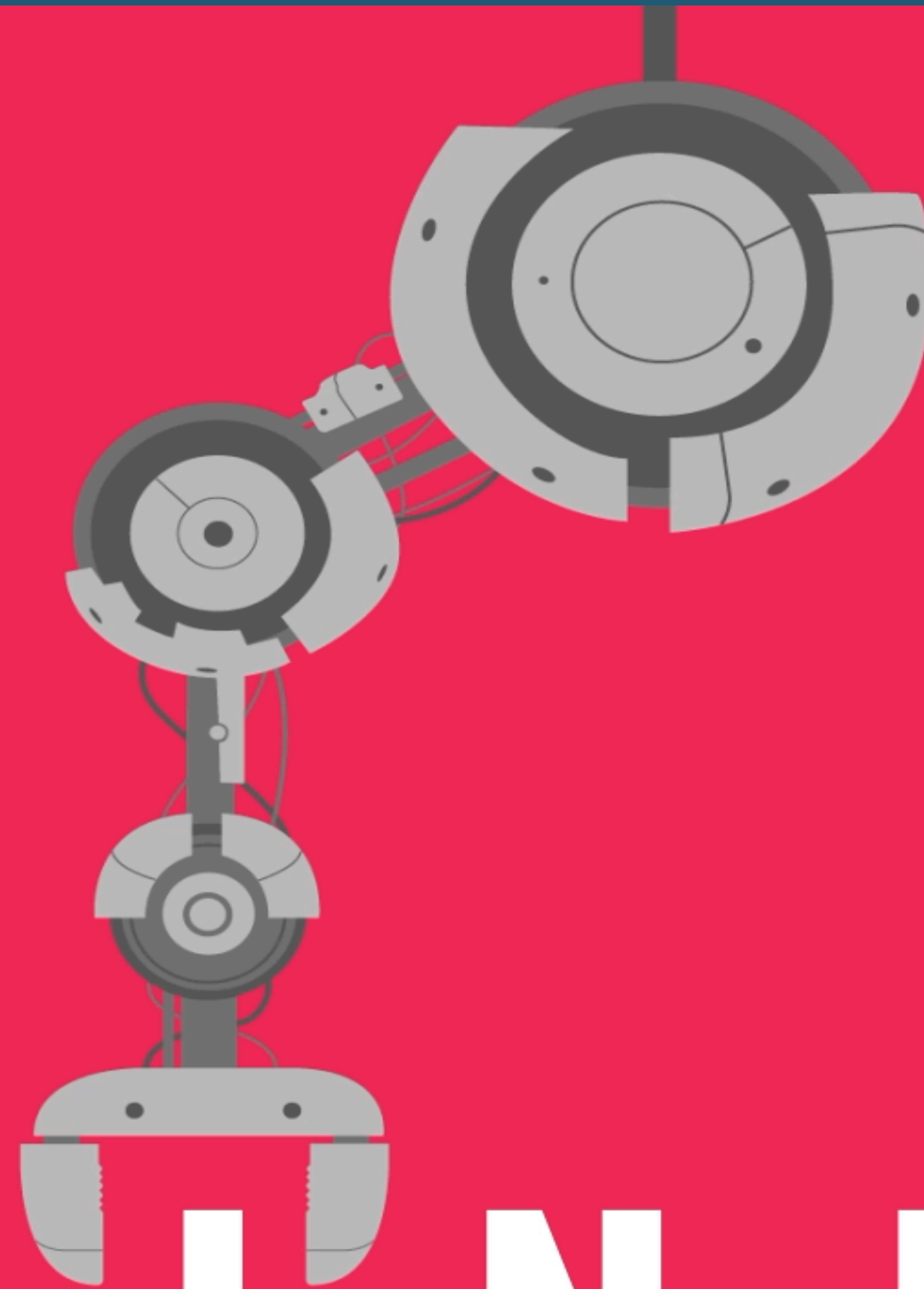
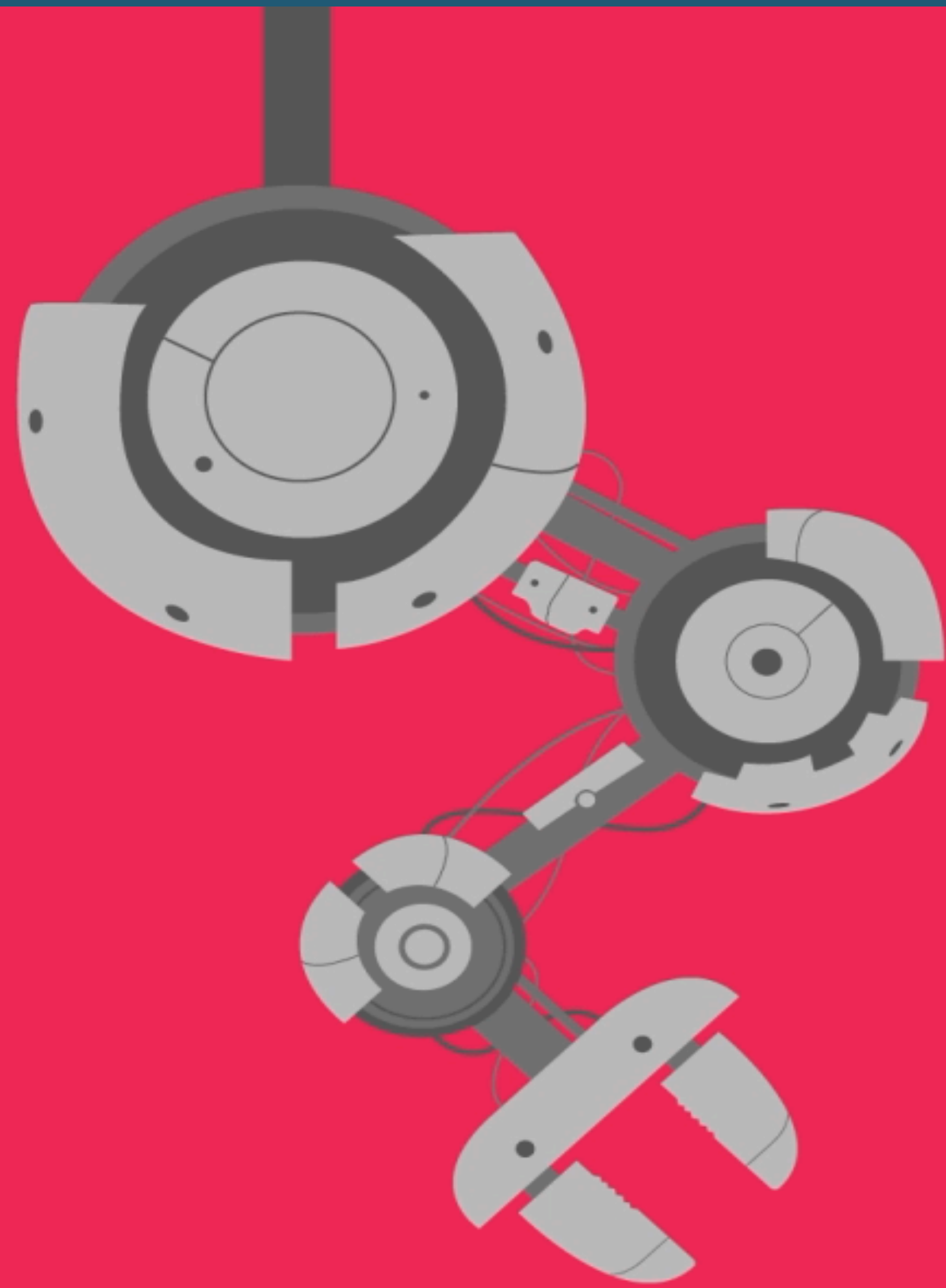
Humans \neq Machines*



Smart Machines \neq Human



Anything that can be digitized or automated, will be: the end of routine is near!

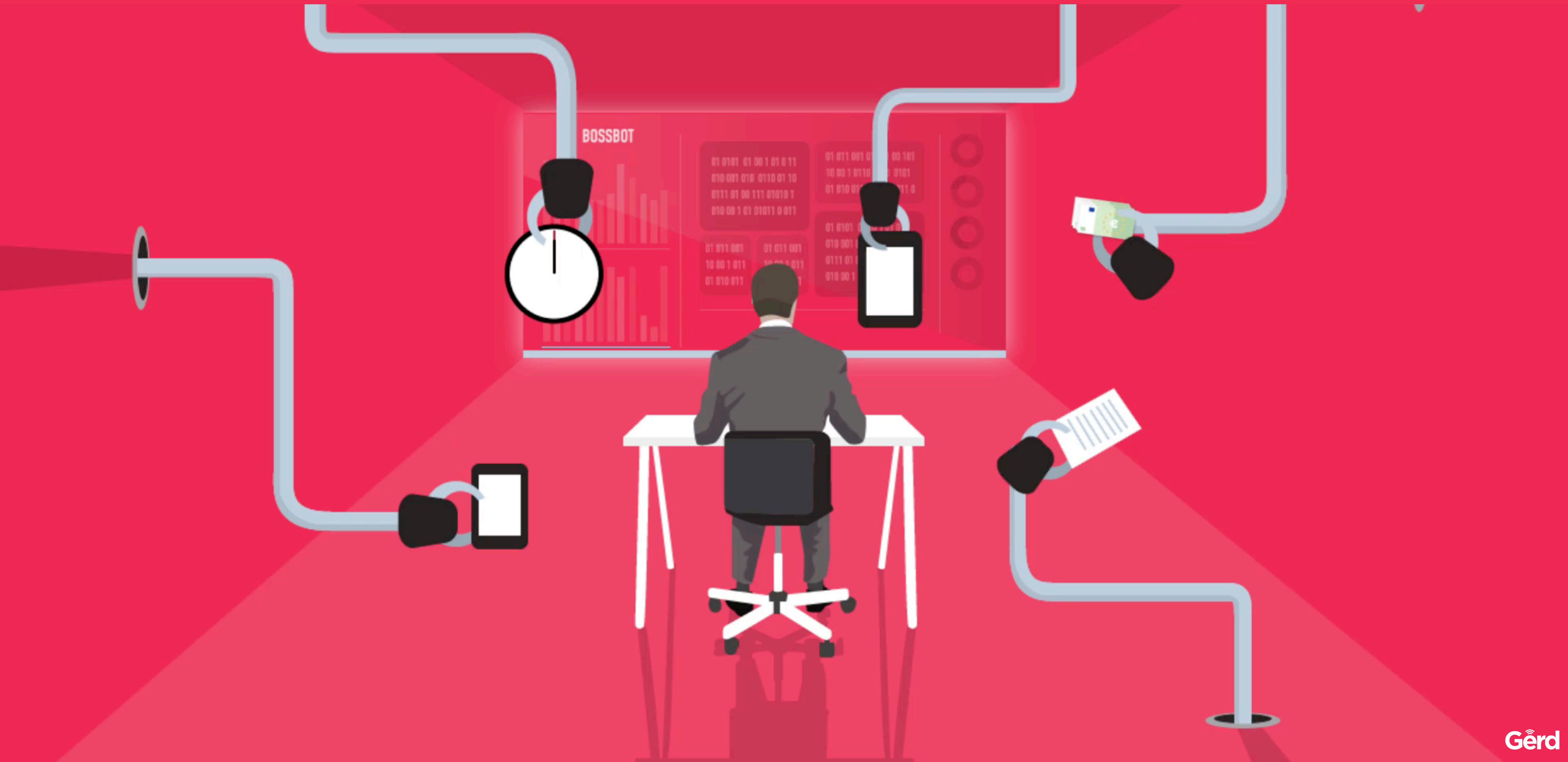


R O U T I N E

The End of Routine is not the end of our work, or of our purpose!



'Working like a robot' is not our future



Commerce is driven by data, but meaning is created by humans!

Algorithms

**“When it comes to really
important decisions
data trumps intuition
every time”**

Androrithms

**“All of my best
decisions in
business and life
have been made
with heart, intuition,
guts... not
analysis”**

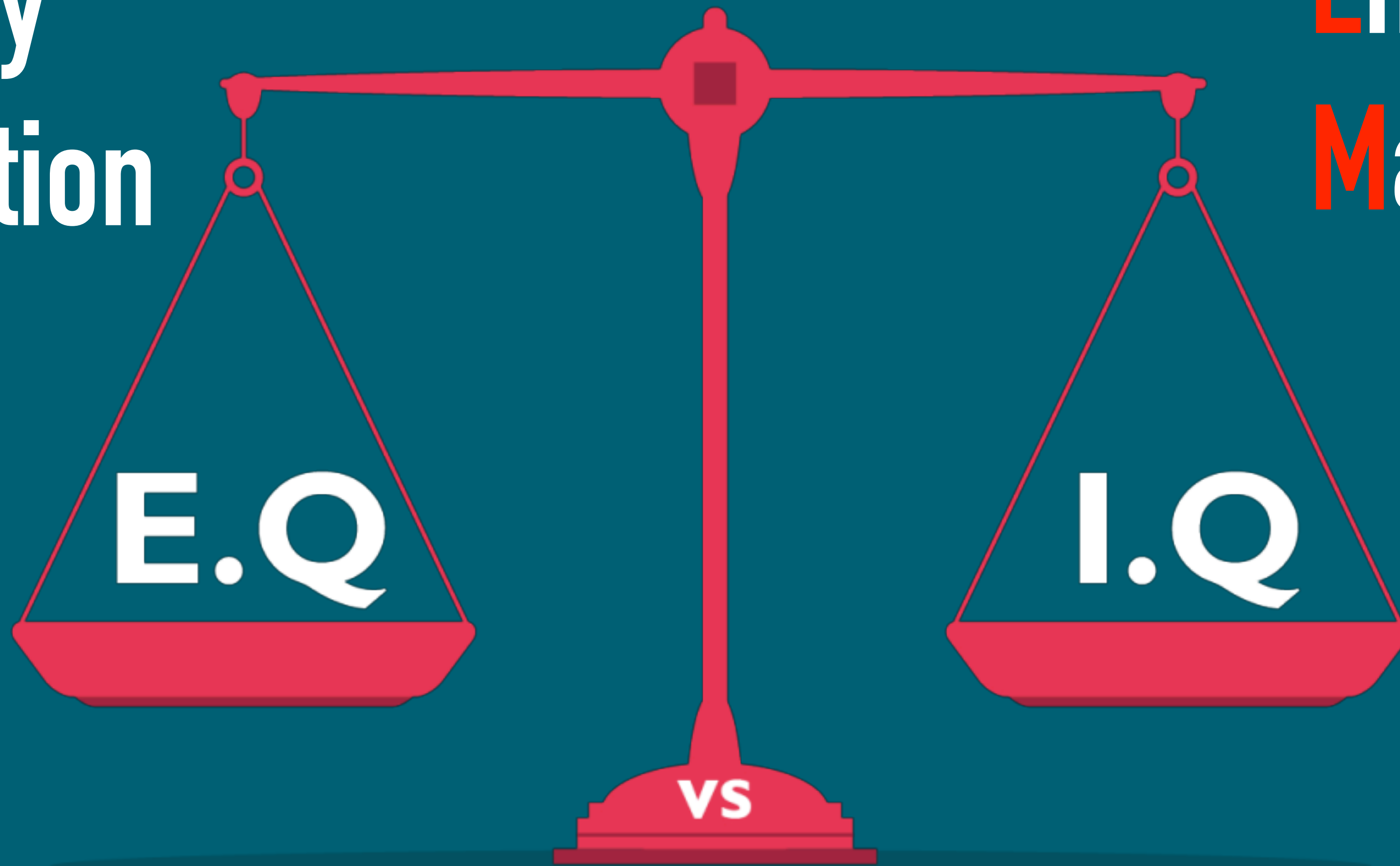


Humanity

Ethics

Creativity

Imagination



Science

Technology

Engineering

Mathematics

2015

- 1 Complex Problem Solving
- 2 Coordinating with Others
- 3 People Management
- 4 Critical Thinking
- 5 Negotiation
- 6 Quality Control
- 7 Service Orientation
- 8 Judgement and Decision Making
- 9 Active Listening
- 10 Creativity

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

Digital Ethics

The background of the image is a solid black field. Overlaid on this field is a complex, abstract network of thin, glowing teal lines. These lines connect numerous small, bright teal dots, creating a web-like structure that resembles a digital network or a molecular model. The network is most dense on the right side of the image, where it fills the frame with a complex pattern of connections. On the left side, the network is sparser, with a few isolated dots and short line segments. The overall effect is one of a vast, interconnected digital space.

"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



TECHNOLOGY HAS NO ETHICS

We are building a new META-INTELLIGENCE

“Technology can do great things, but it does not WANT to do great things. It does not want anything.”

Tim Cook, CEO, Apple October 25 2018



Why?

Who?

DIGITAL ETHICS: the difference between doing whatever technological progress will allow us to do, and putting human happiness and societal flourishing first at all times

“Technology can do great things. But it does not WANT to do great things.
It doesn’t want ANYTHING” (Tim Cook, CEO of Apple, Oct 23 2018)





Societal change

The externalities of exponential technological growth must be INCLUDED in the digital economy, as well!



Not sustainable



A new economic logic: ETA 20 years

***WE WORK
TO BETTER
OURSELVES
AND THE
REST OF
HUMANITY.***



Exponential technological progress will enable as well as **force us** to expand our current economic logic

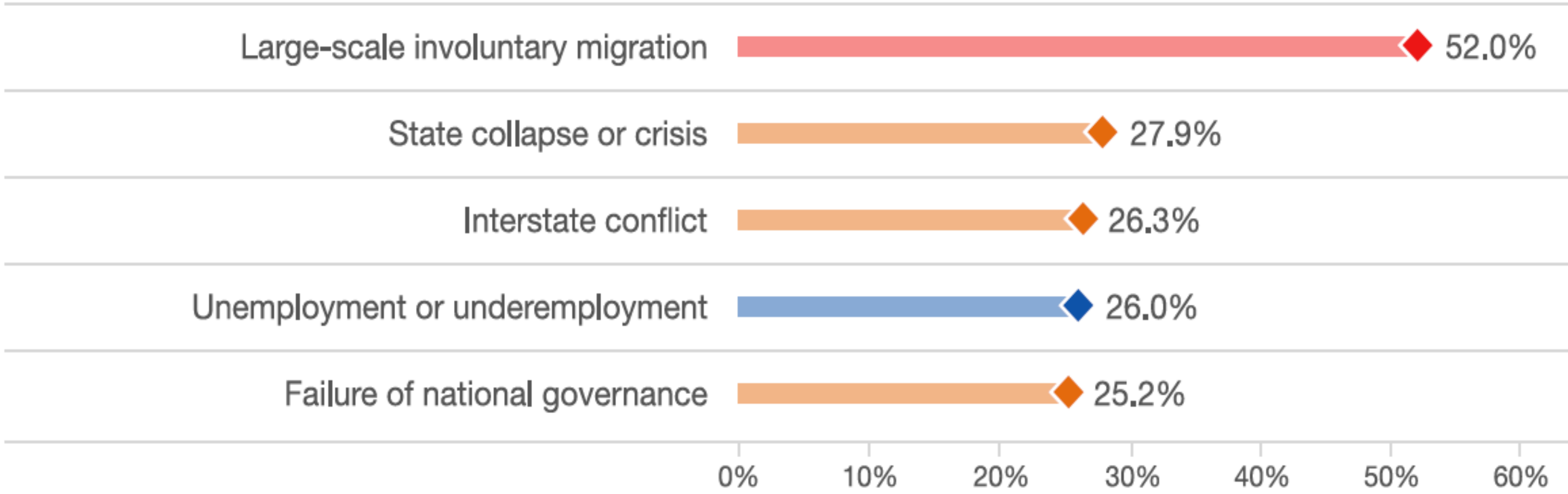


The Global Risks of Highest Concern, 2016

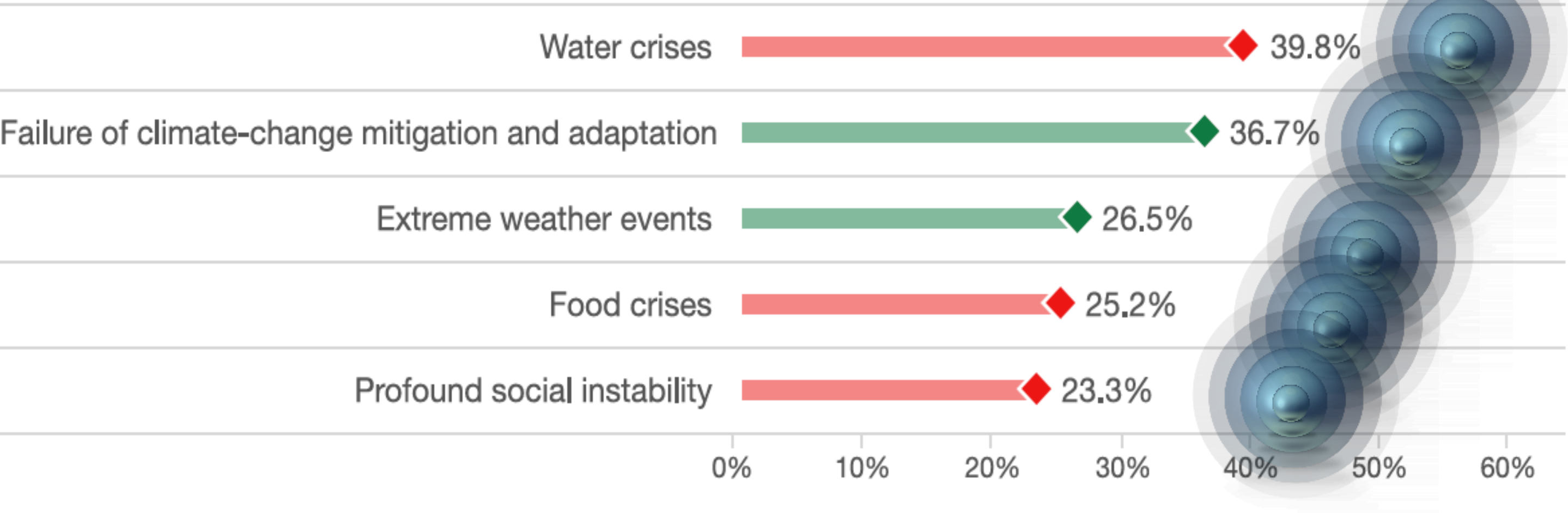


Percent of participants mentioning the respective risk to be of high concern for the time frame of 18 months or 10 years, respectively. Participants could name up to five risks in each time frame. In each category, the risks are sorted by the total sum of mentions.

For the next 18 months



For the next 10 years



United
States of
Europe?

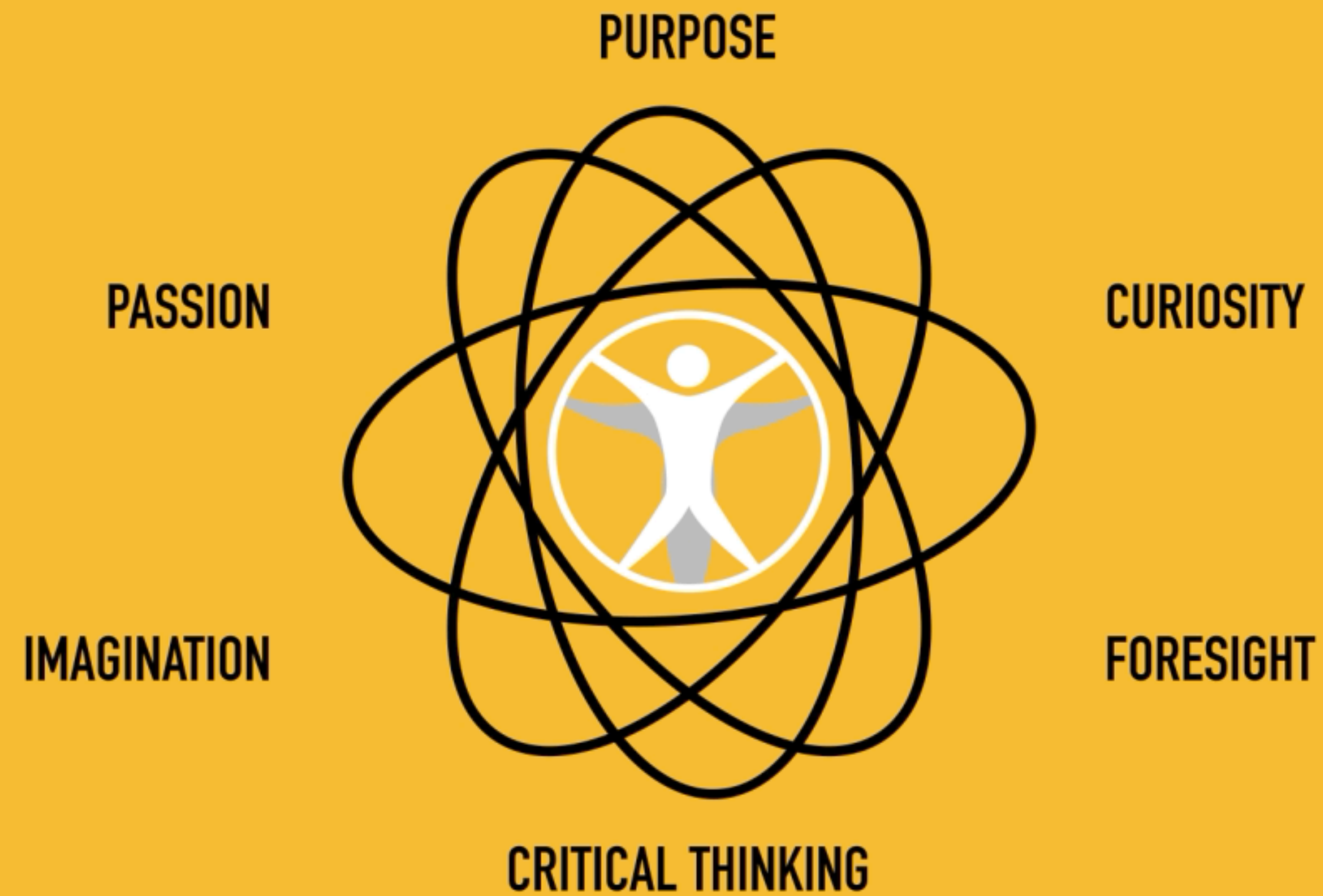


Conclusions & Actions

We need to invest as much into humanity as we invest into technology



The Future: awesome humans (HI) on-top of amazing technology (AI)





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