

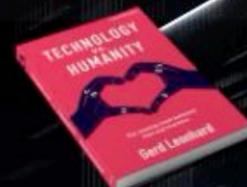
MODENA
SMART
LIFE
2019

Humans

Artificial Intelligence

SIAMO EVOLUZIONE TECNOLOGICA

Modena 27/28/29 settembre



techvshuman.com



gerd.cloud



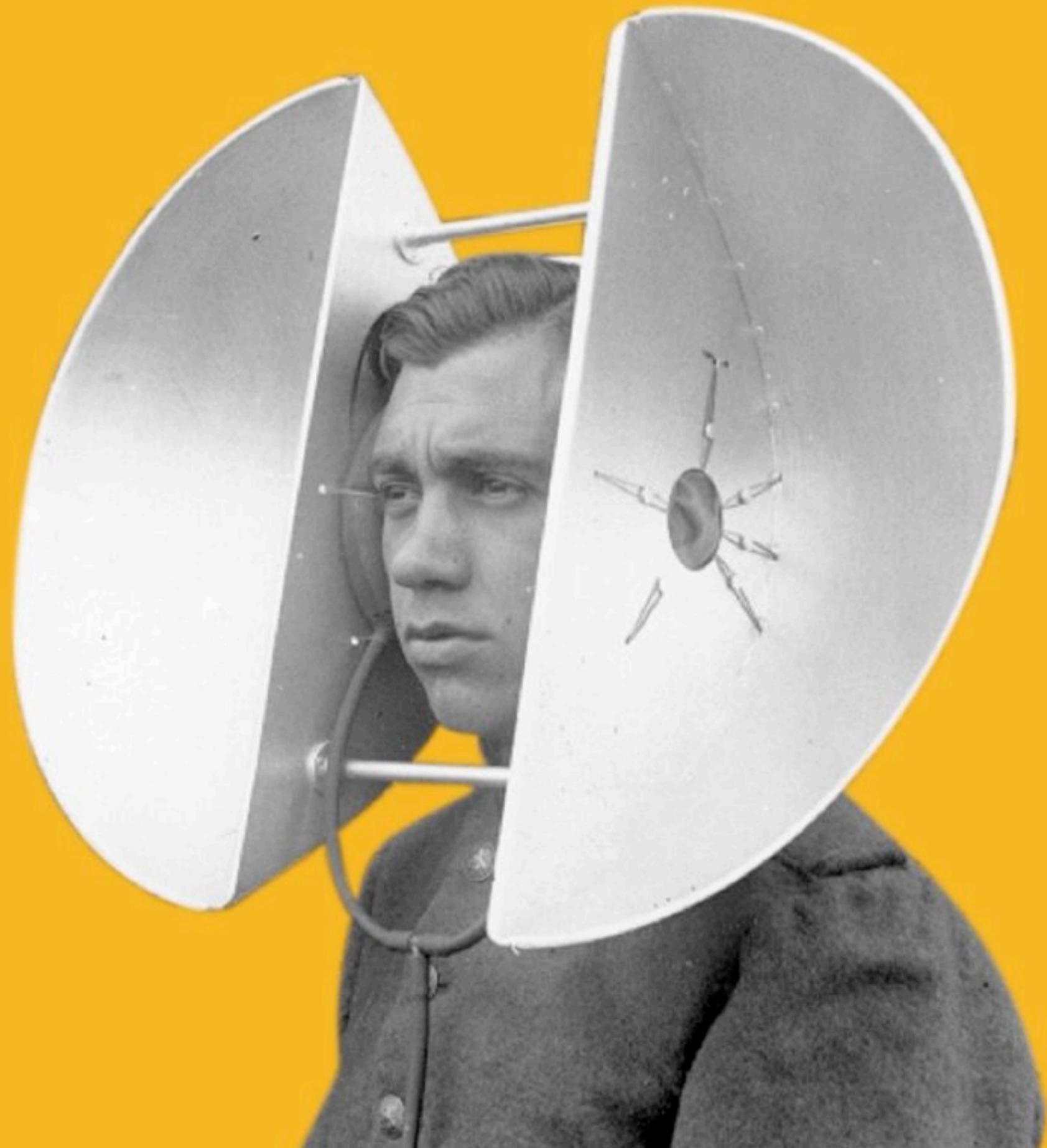
gerdtube.com



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



futuristgerd.com



FORESIGHT is now mission-critical!

Trends set to positively impact business growth up to 2022

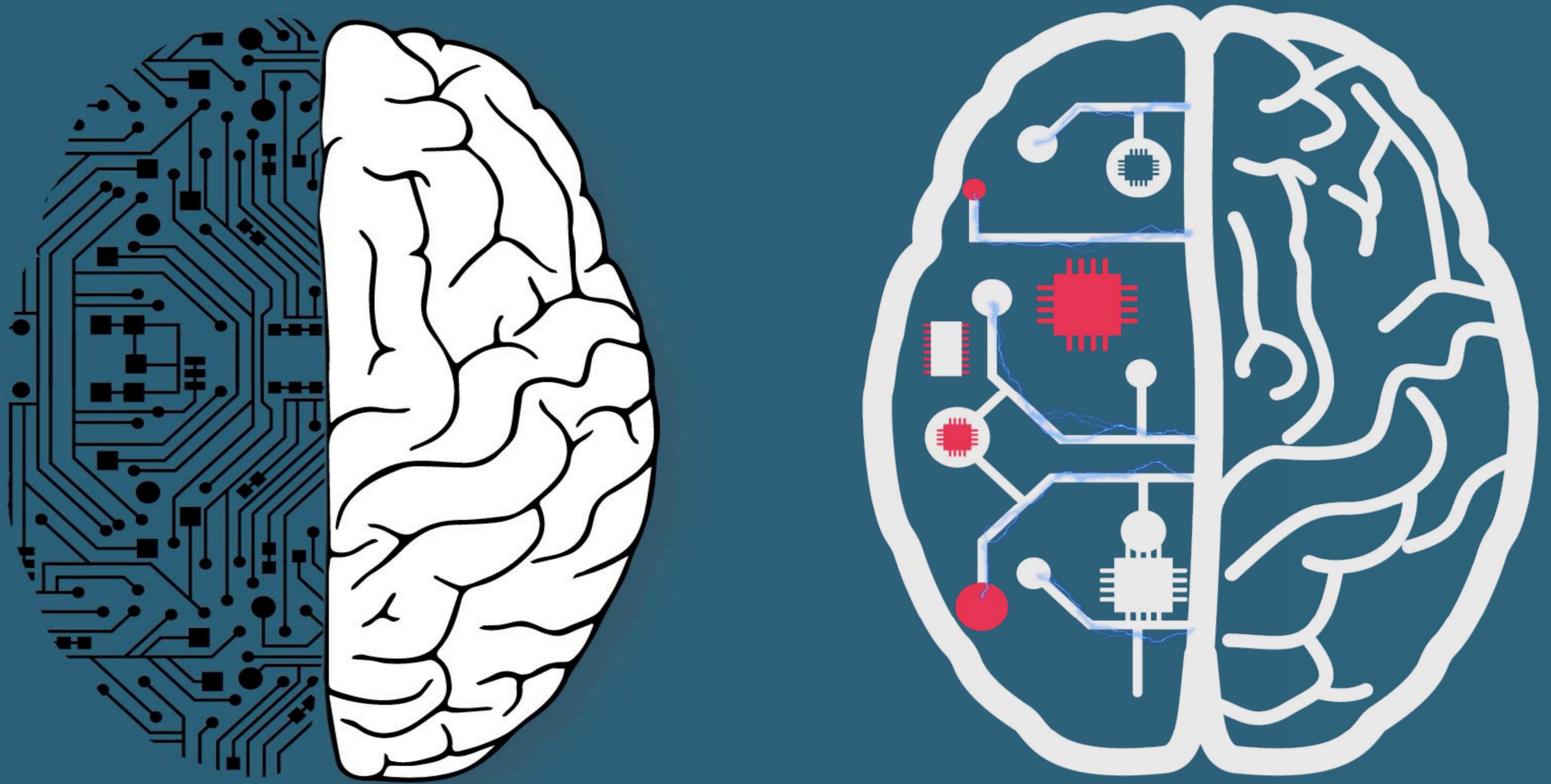
- Increasing adoption of new technology**
- Increasing availability of big data**
- Advances in mobile internet**
- Advances in artificial intelligence**
- Advances in cloud technology**
- Shifts in national economic growth**
- Expansion of affluence in developing economies**
- Expansion of education**
- Advances in new energy supplies and technologies**
- Expansion of the middle classes**

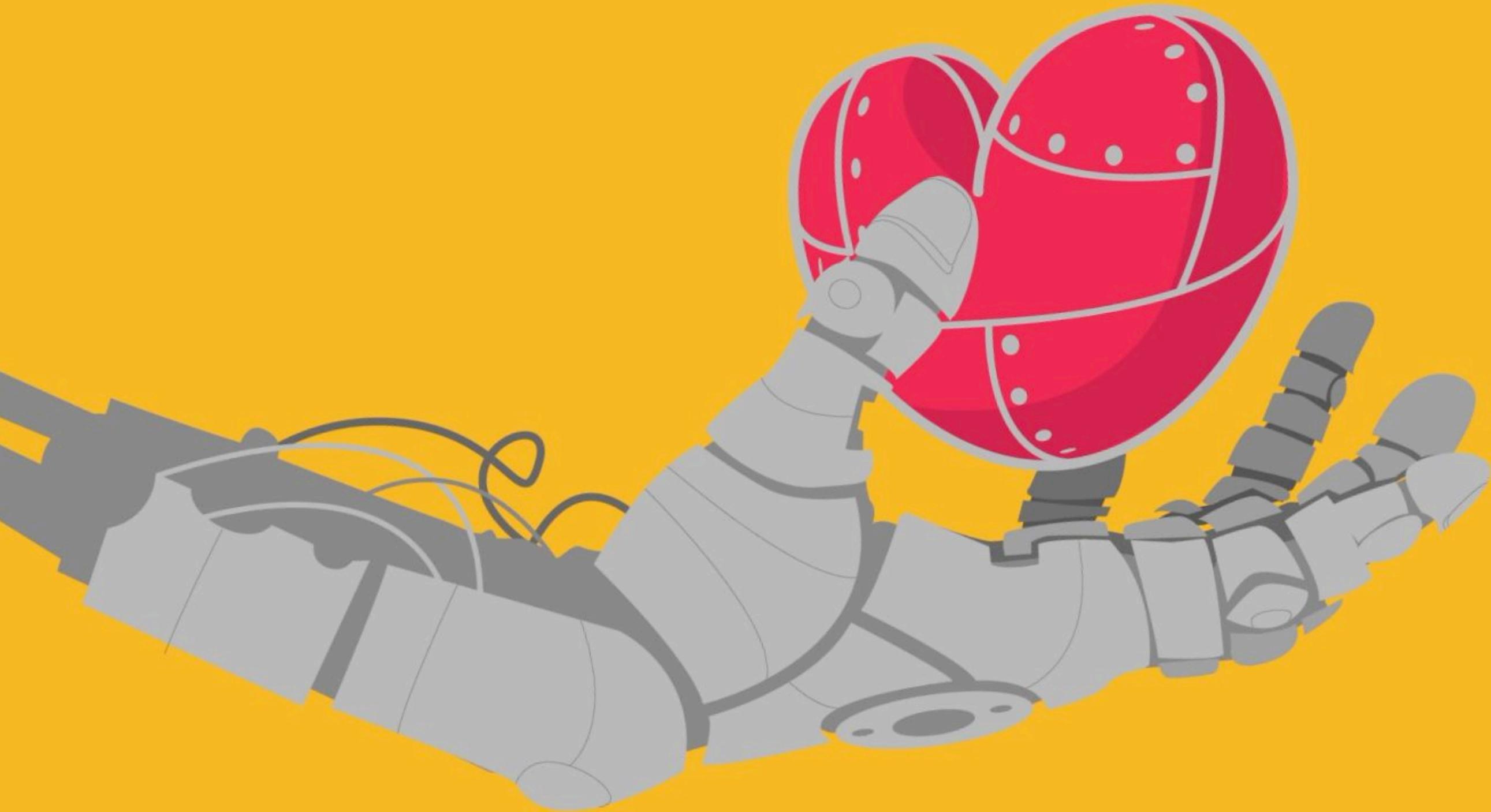
Trends set to negatively impact business growth up to 2022

- Increasing protectionism**
- Increase of cyber threats**
- Shifts in government policy**
- Effects of climate change**
- Increasingly ageing societies**
- Shifts in legislation on talent migration**
- Shifts in national economic growth**
- Shifts of mindset among the new generation**
- Shifts in global macroeconomic growth**
- Advances in artificial intelligence**

Humanity ☯ Technology

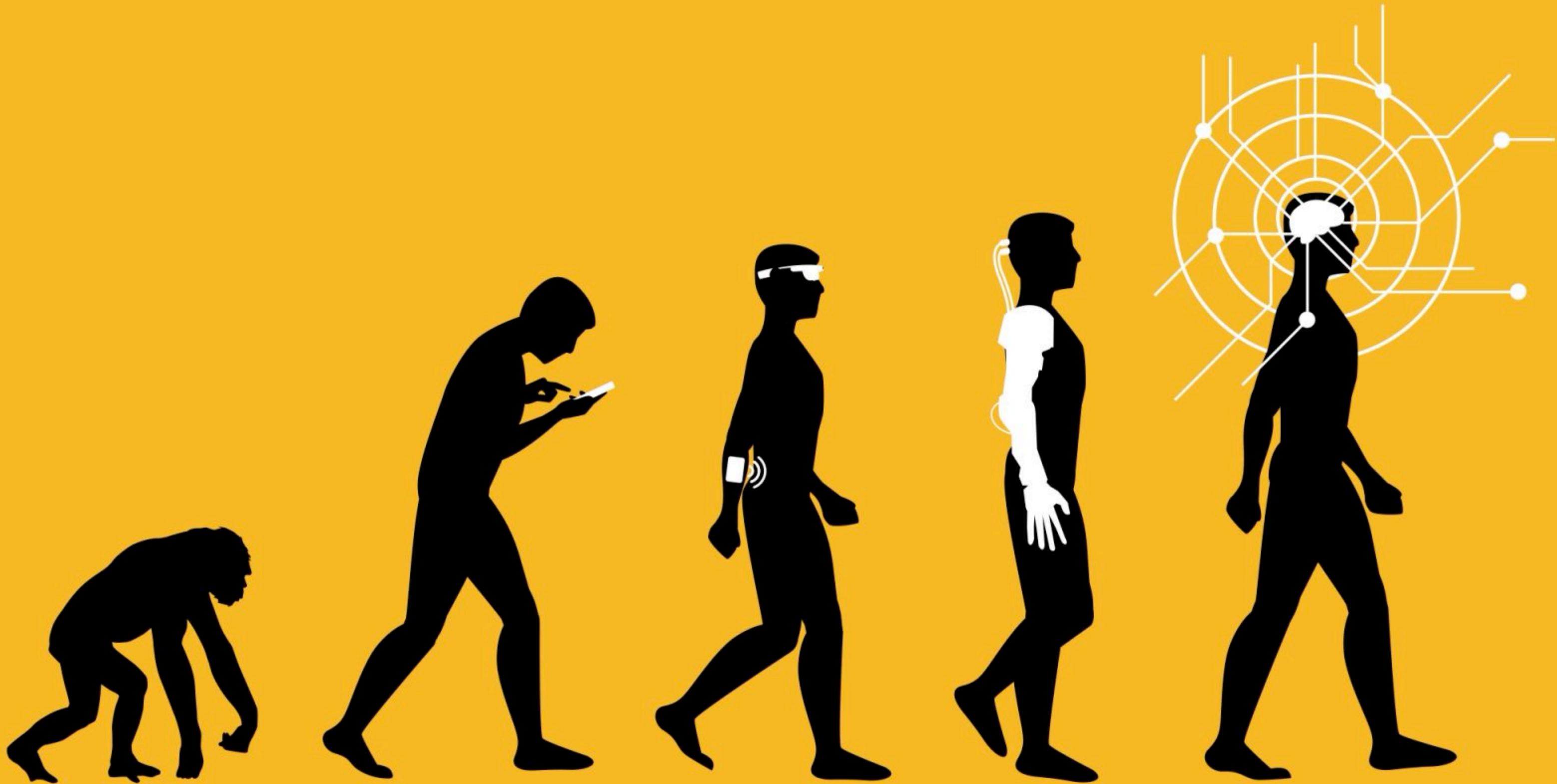




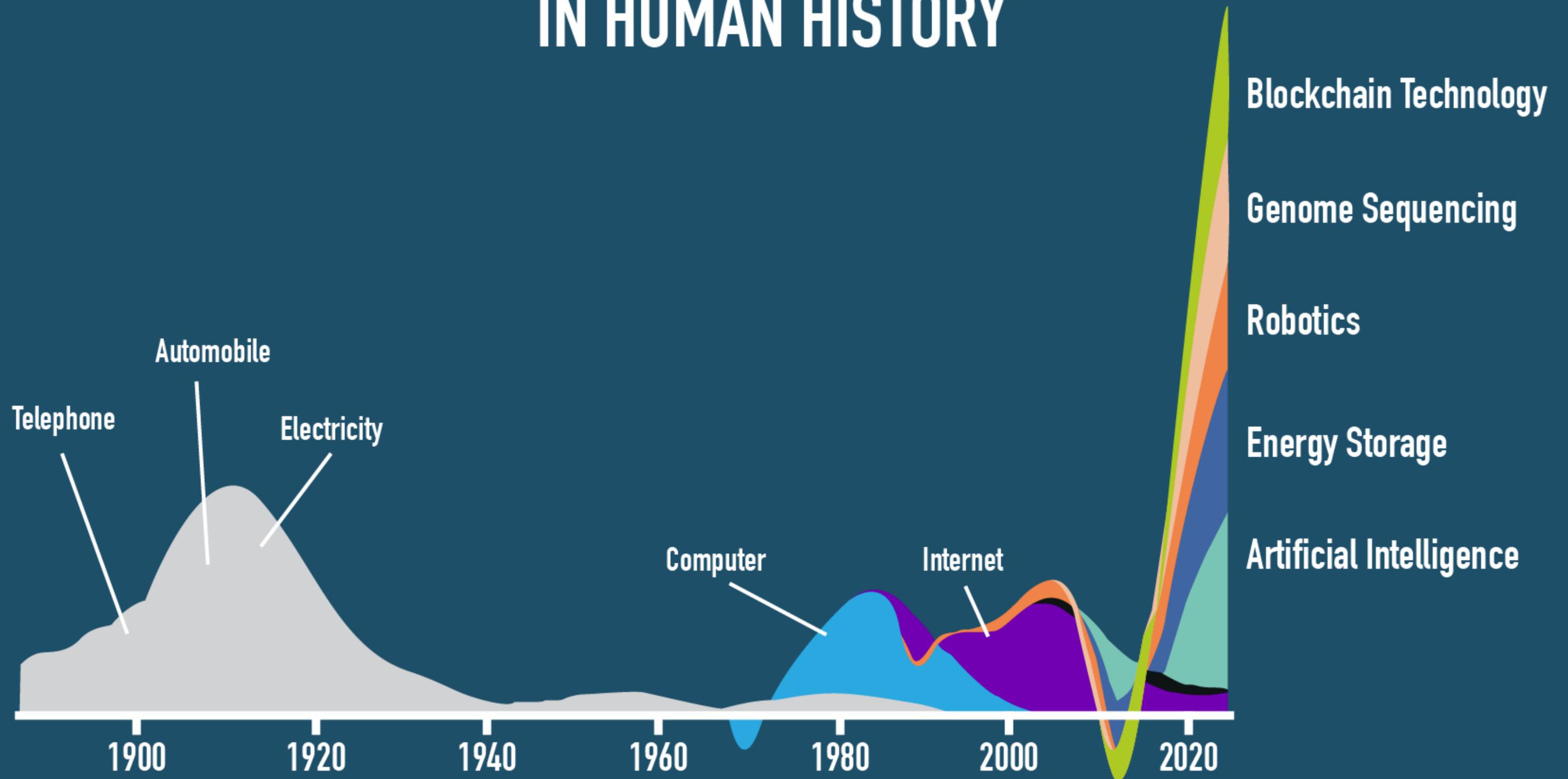








THE BIGGEST TECHNOLOGICAL TRANSFORMATION IN HUMAN HISTORY



Science fiction is increasingly becoming **SCIENCE FACT**

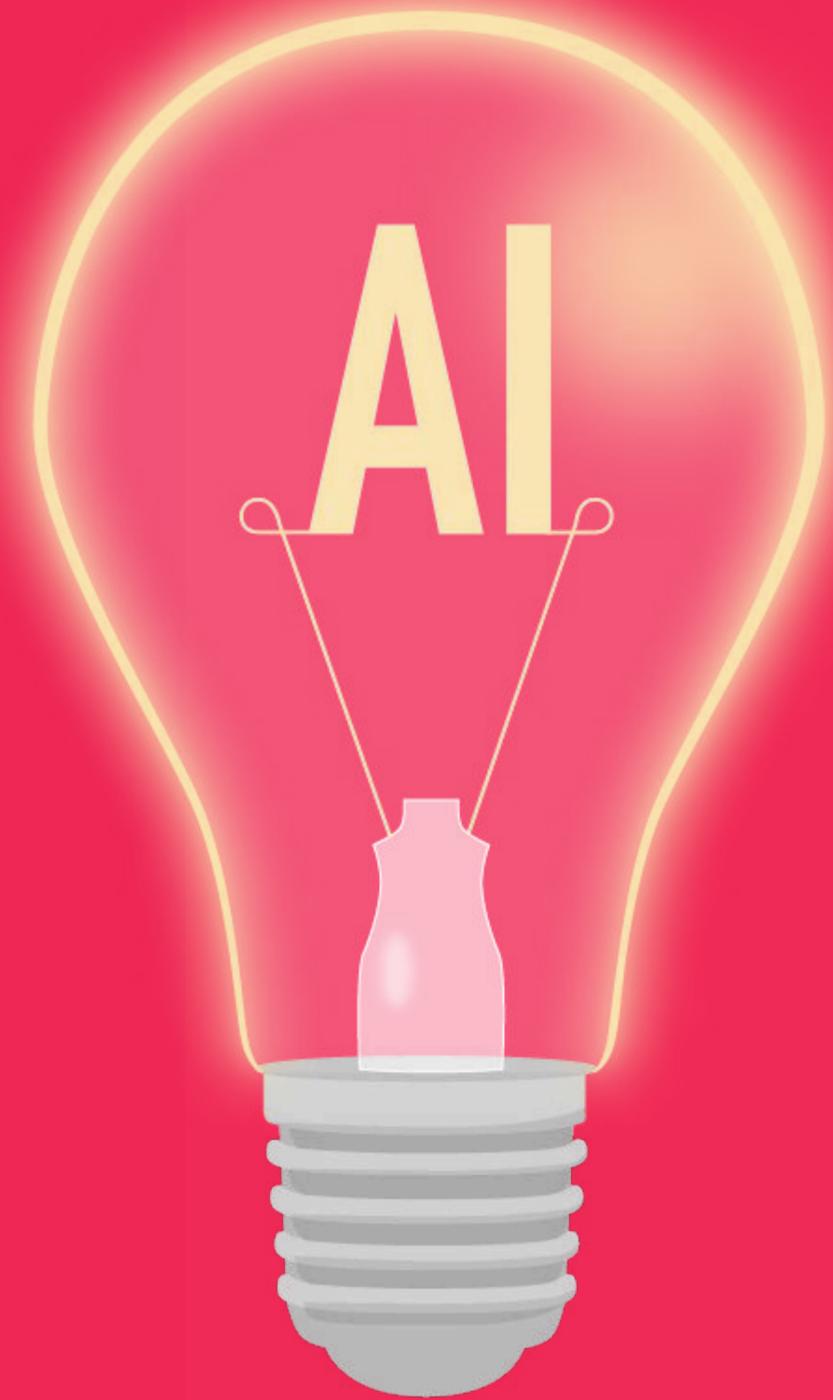
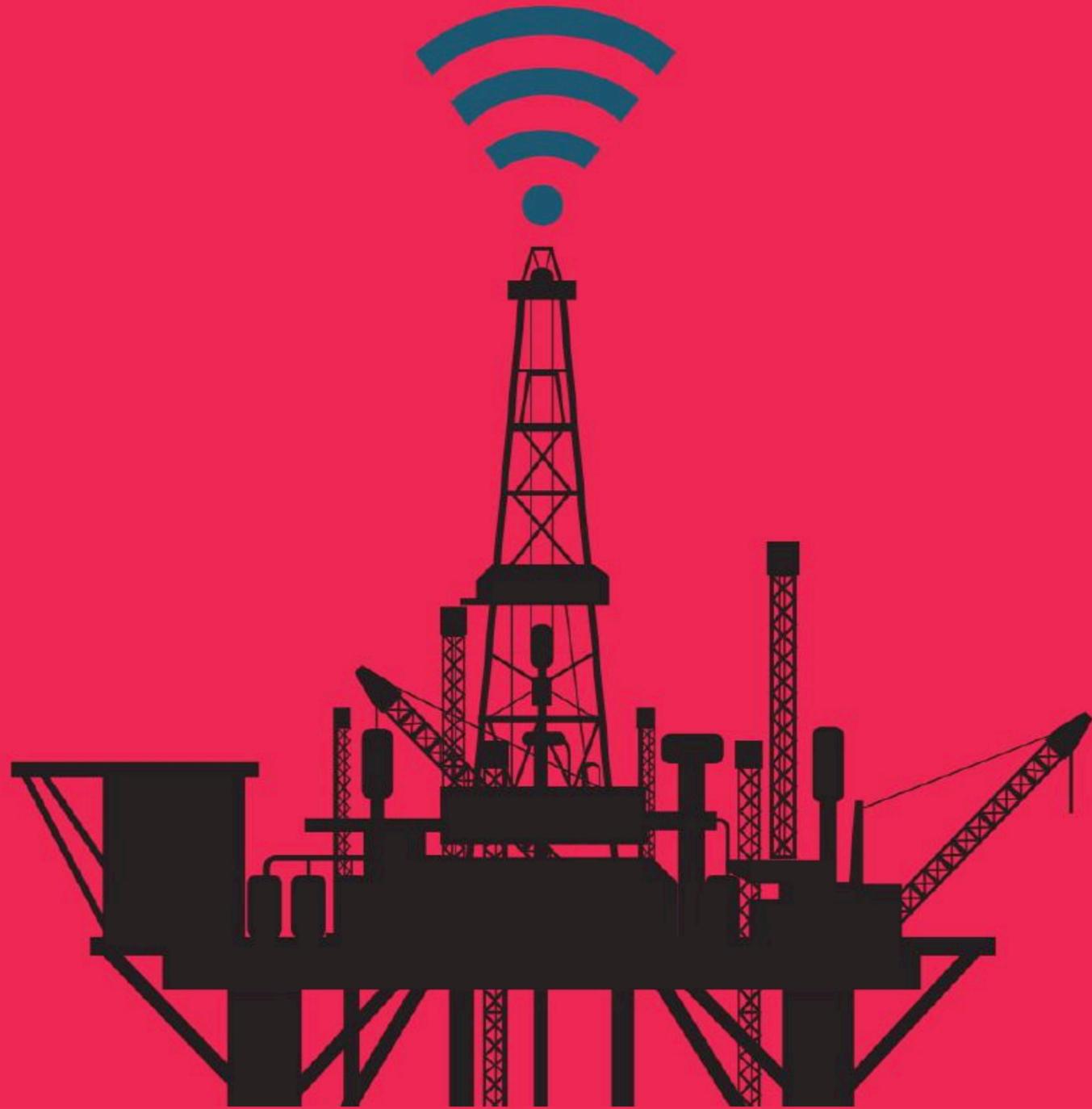


Privacy & Identity
Security & Safety
Agency & Autonomy
Rights & Ethics

Liquidity & Flow
Efficiency & Speed
Productivity & Ease
Network Effects

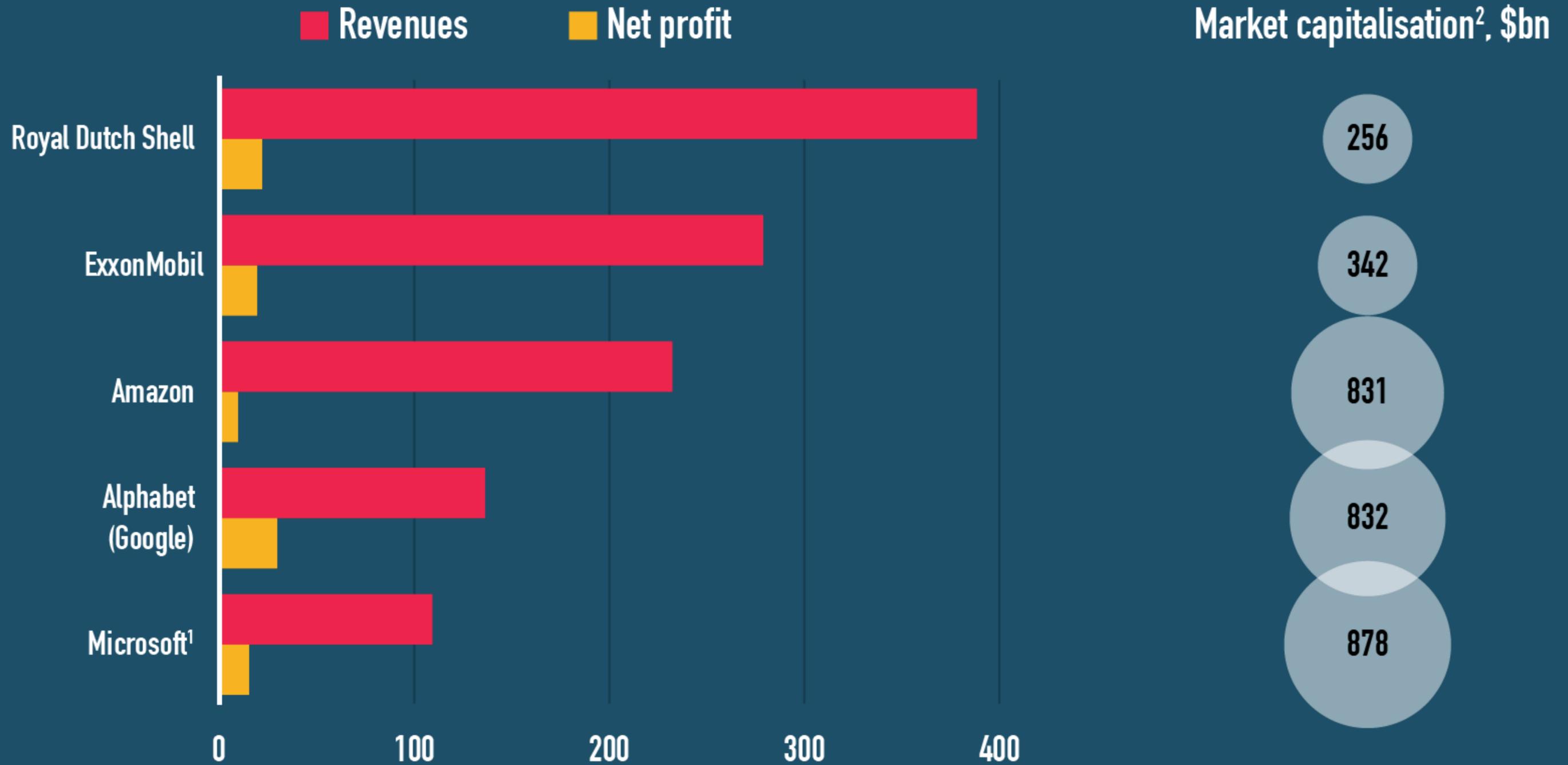


Data is the new oil, and AI is the new electricity: huge economic forces!



DATA IS THE NEW OIL

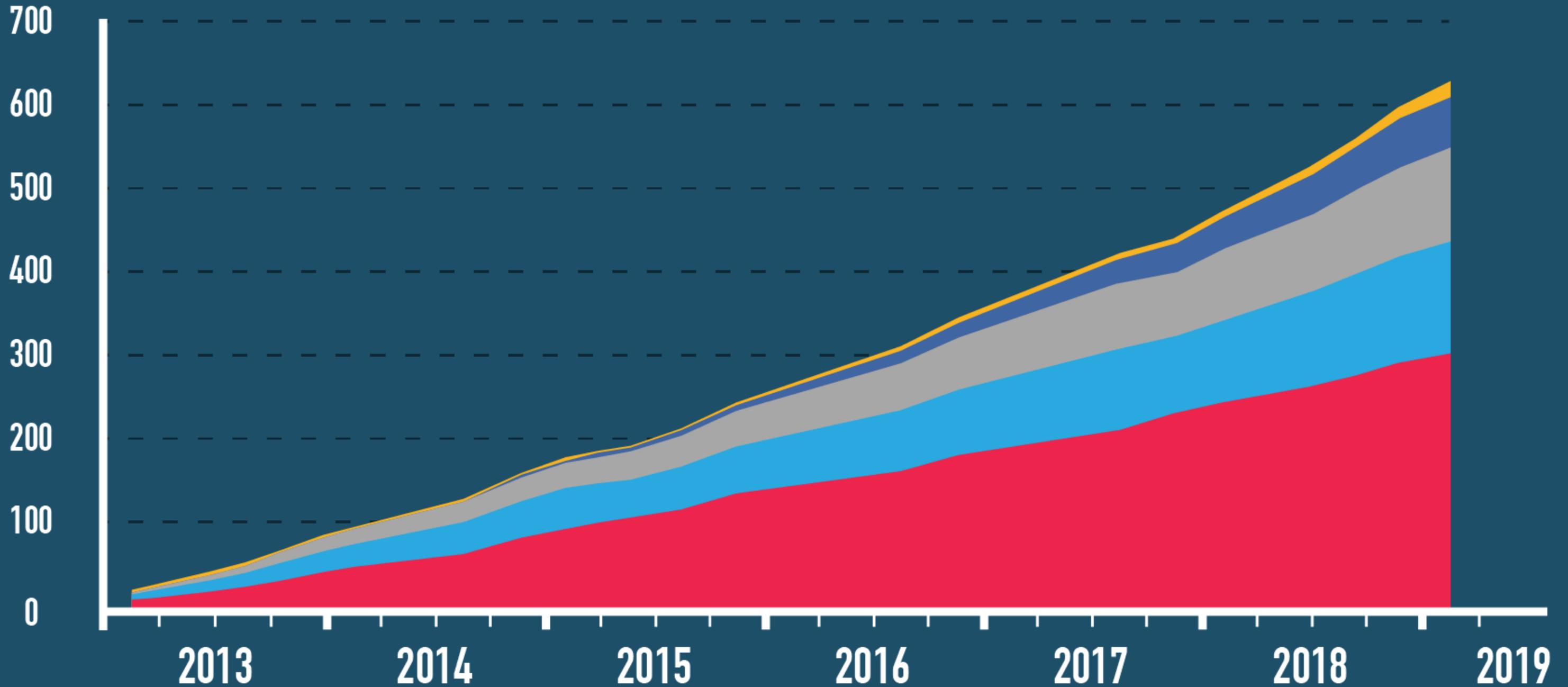
COMPANY FINANCIALS, \$BN, 2018



REALLY BIG TECH

CUMULATIVE PROFITS SINCE Q1 2013, \$bn

Apple Microsoft Alphabet Facebook Amazon



From if and how to who and why

If?

How?

From if and how to who and why

Why?

Who?

COUNSEL



CONVENIENCE



COMMERCE

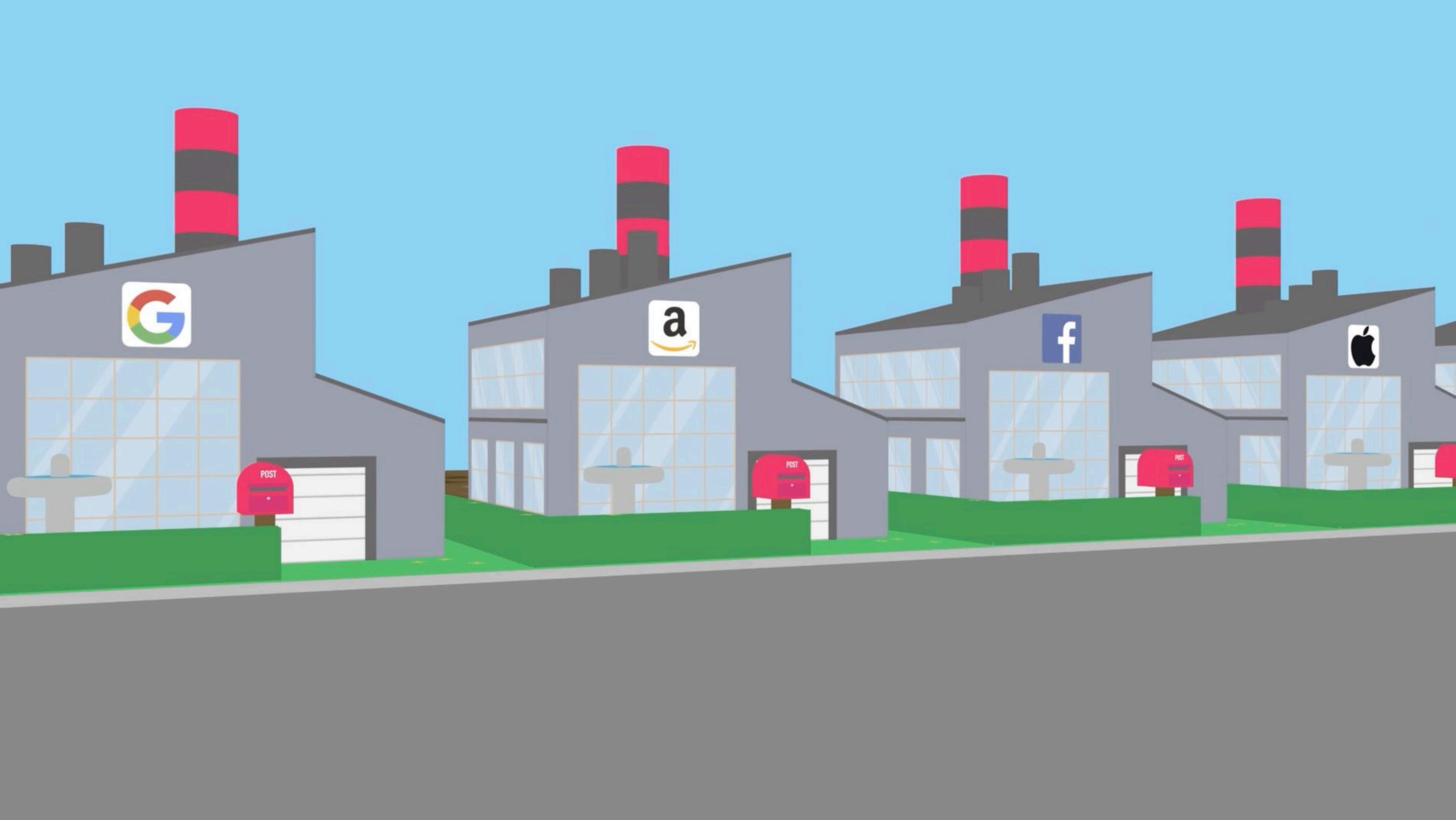


CONTENT

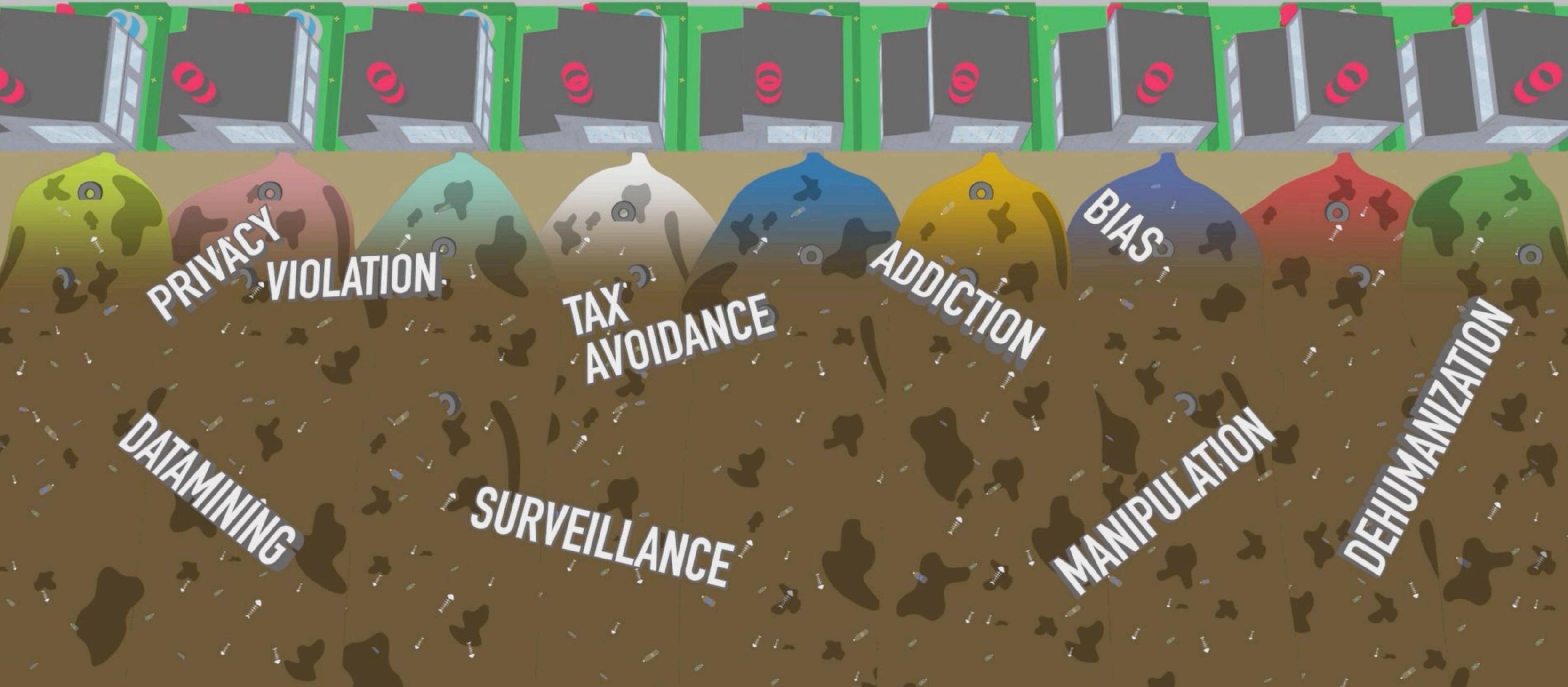
COMMUNICATION



COMMUNITY



The **EXTERNALITIES** of exponential technological progress will have as much impact than those resulting from the fossil-fuel economy



PRIVACY VIOLATION

TAX AVOIDANCE

ADDICTION

BIAS

DATAMINING

SURVEILLANCE

MANIPULATION

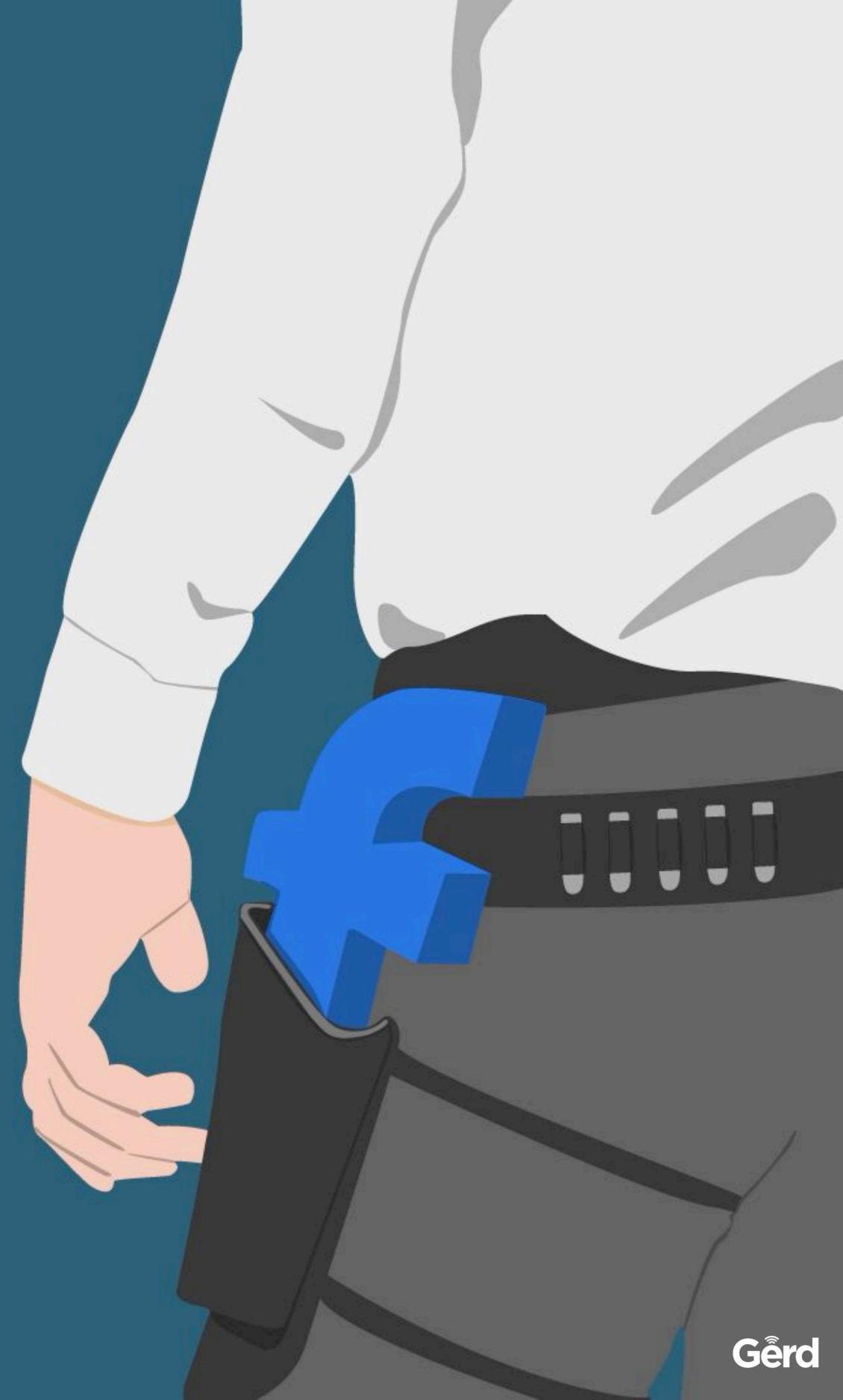
DEHUMANIZATION

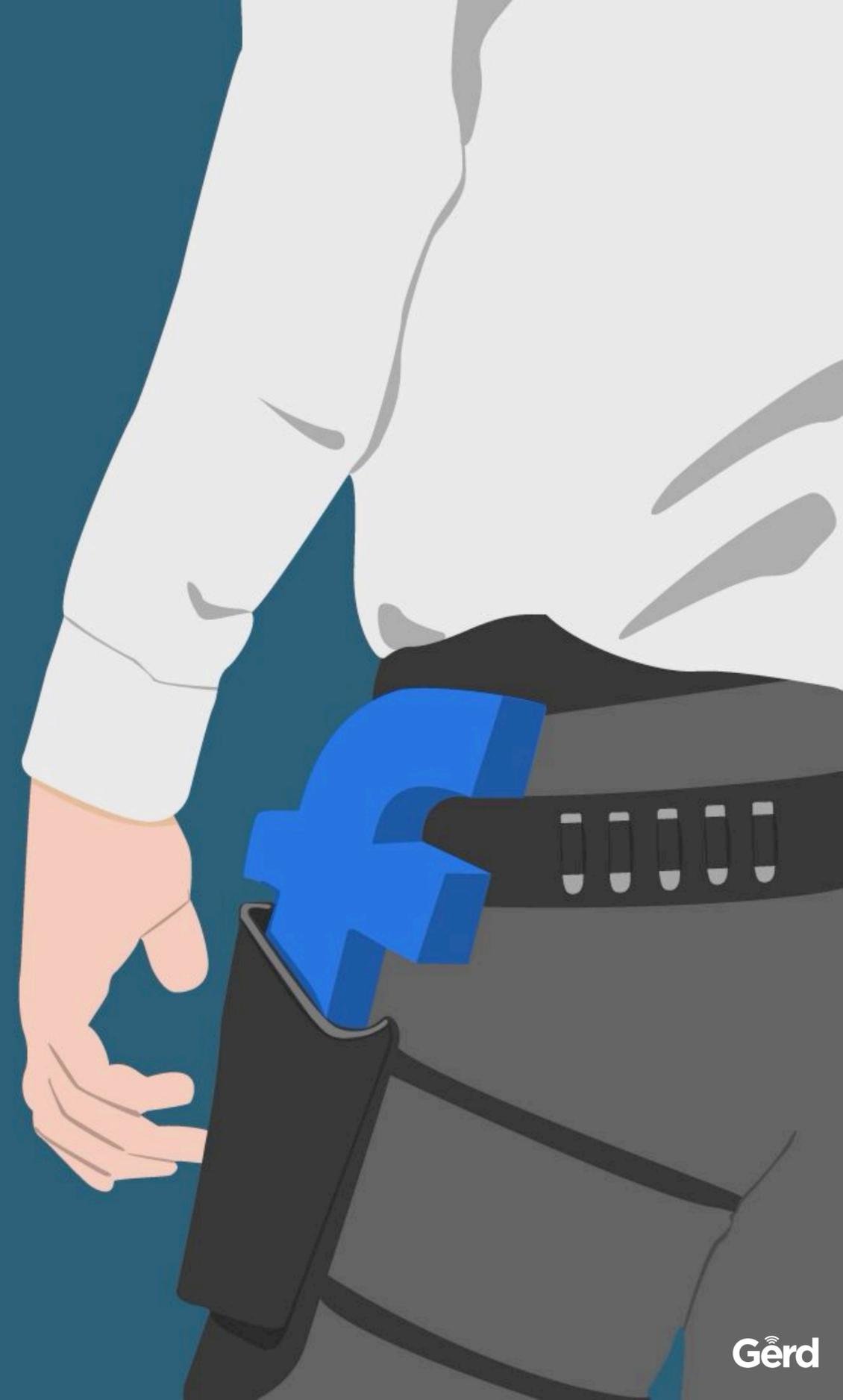
Climate-Change



Human-Change







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

Technology has no ethics – but our society depends on it!



TECHNOLOGY HAS NO ETHICS

“Automation is good for growth and bad for equality”

(Christine Lagarde, the IMF)



Why American Workers Need to Be Protected From Automation

Opinion: As President, I would issue a robot tax for corporations displacing humans, and create a federal agency to oversee automation.

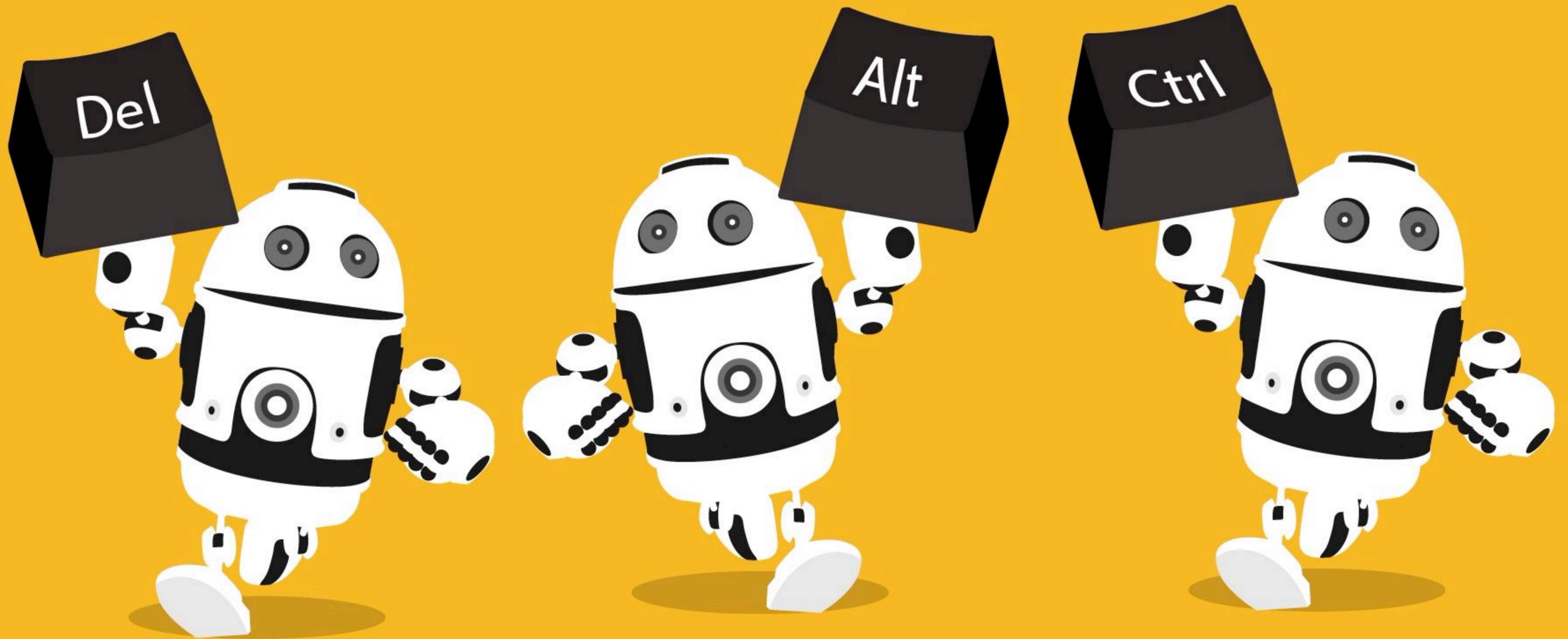
*Bill de Blasio, NYC Mayor



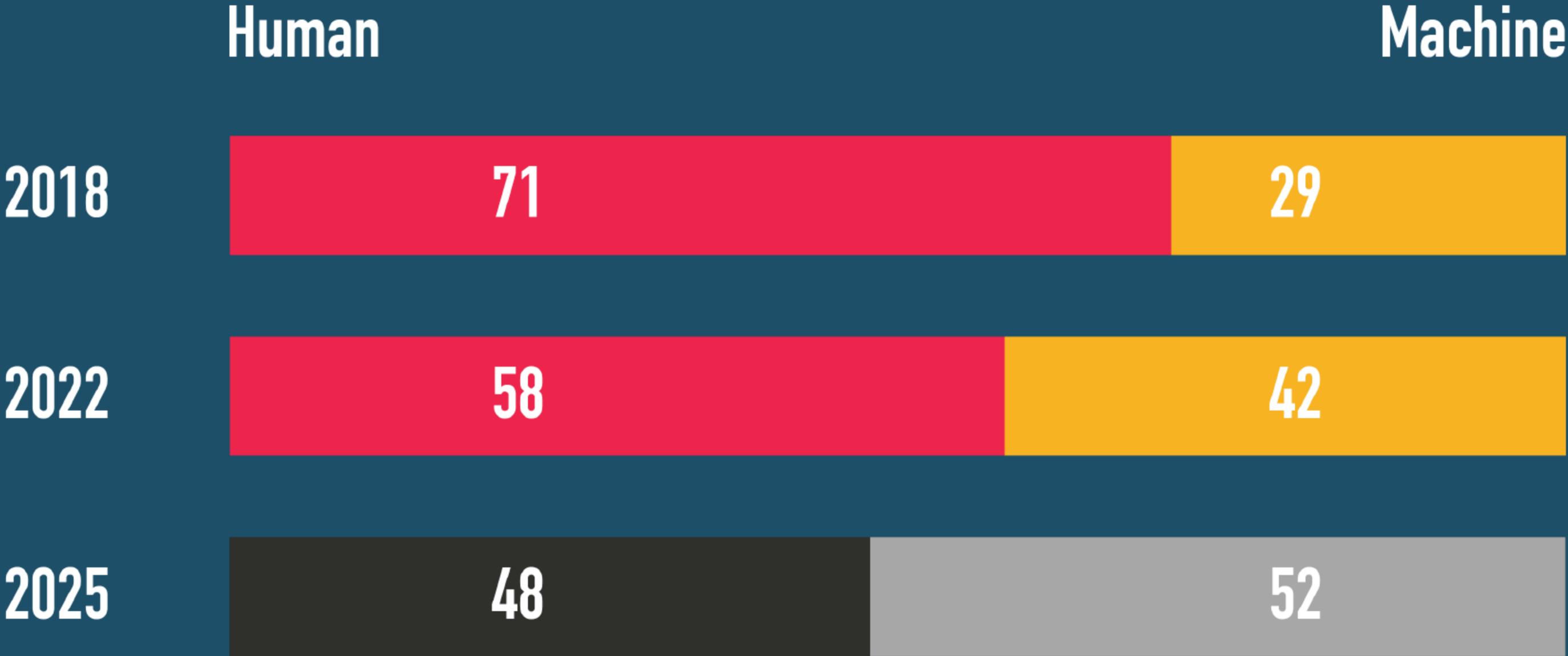
What about ITALY? Your city? Your company?



Who will be 'Mission Control' for humanity?

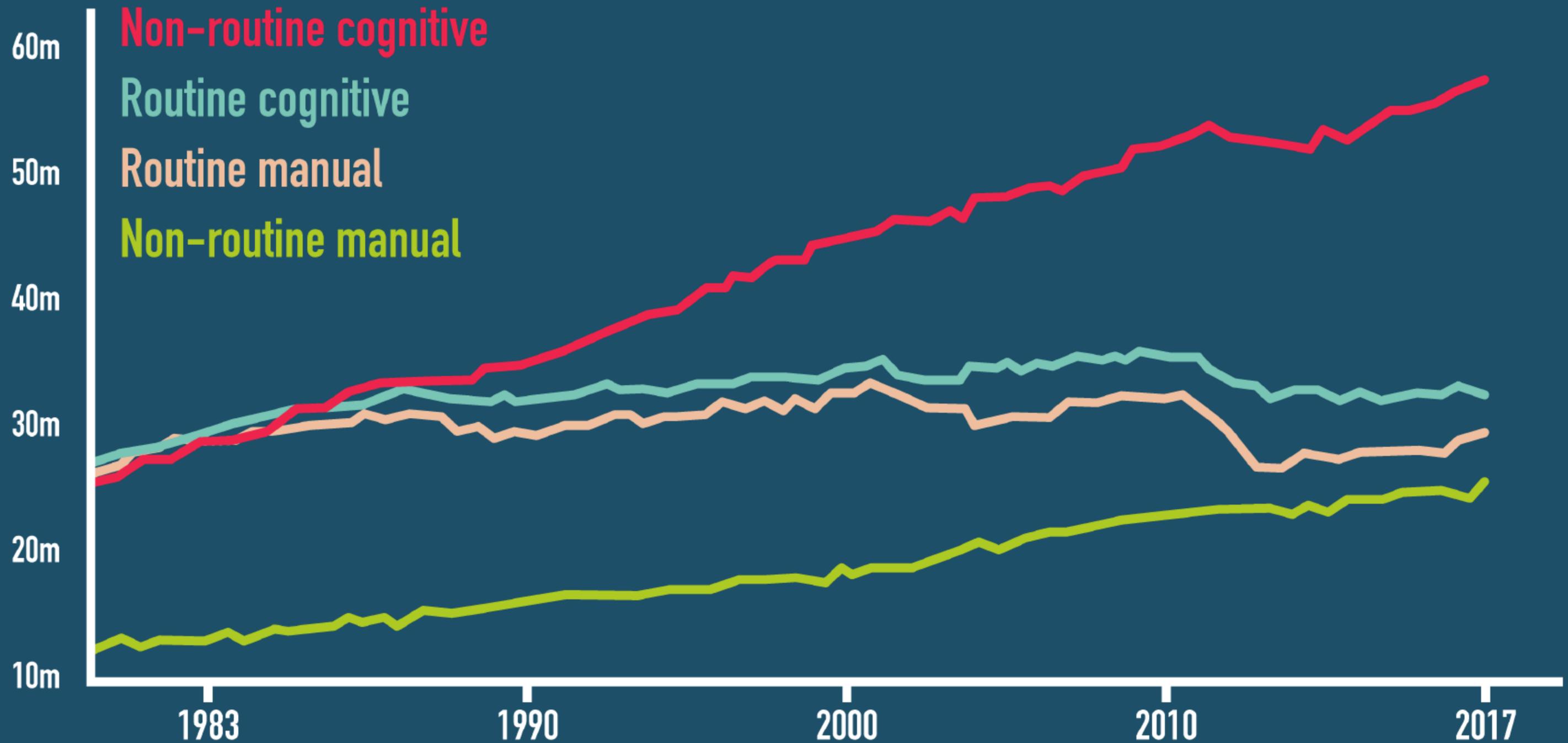


MACHINES WILL INCREASINGLY DO THE ROUTINE WORK



Source: World Economic Forum

NON-ROUTINE WORK IS THE FUTURE!



PURPOSE

PASSION

CURIOSITY

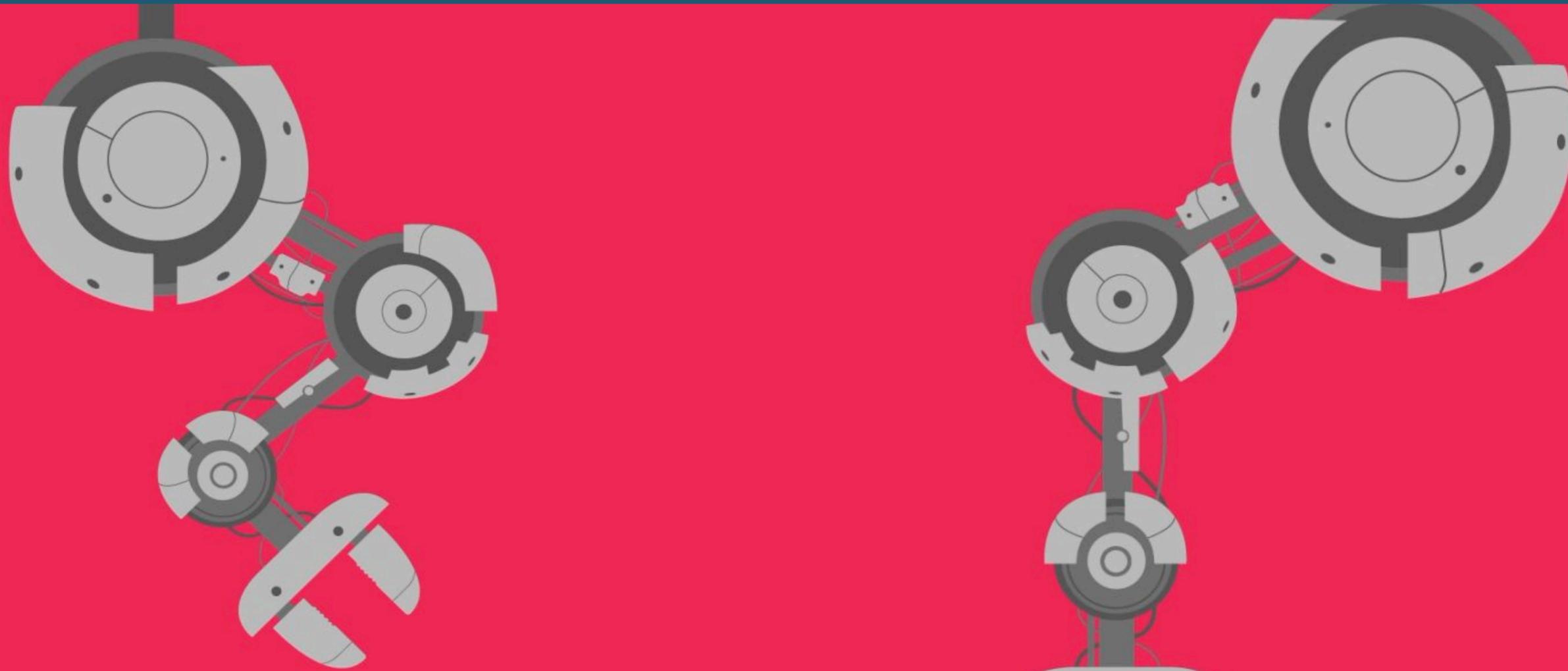


IMAGINATION

FORESIGHT

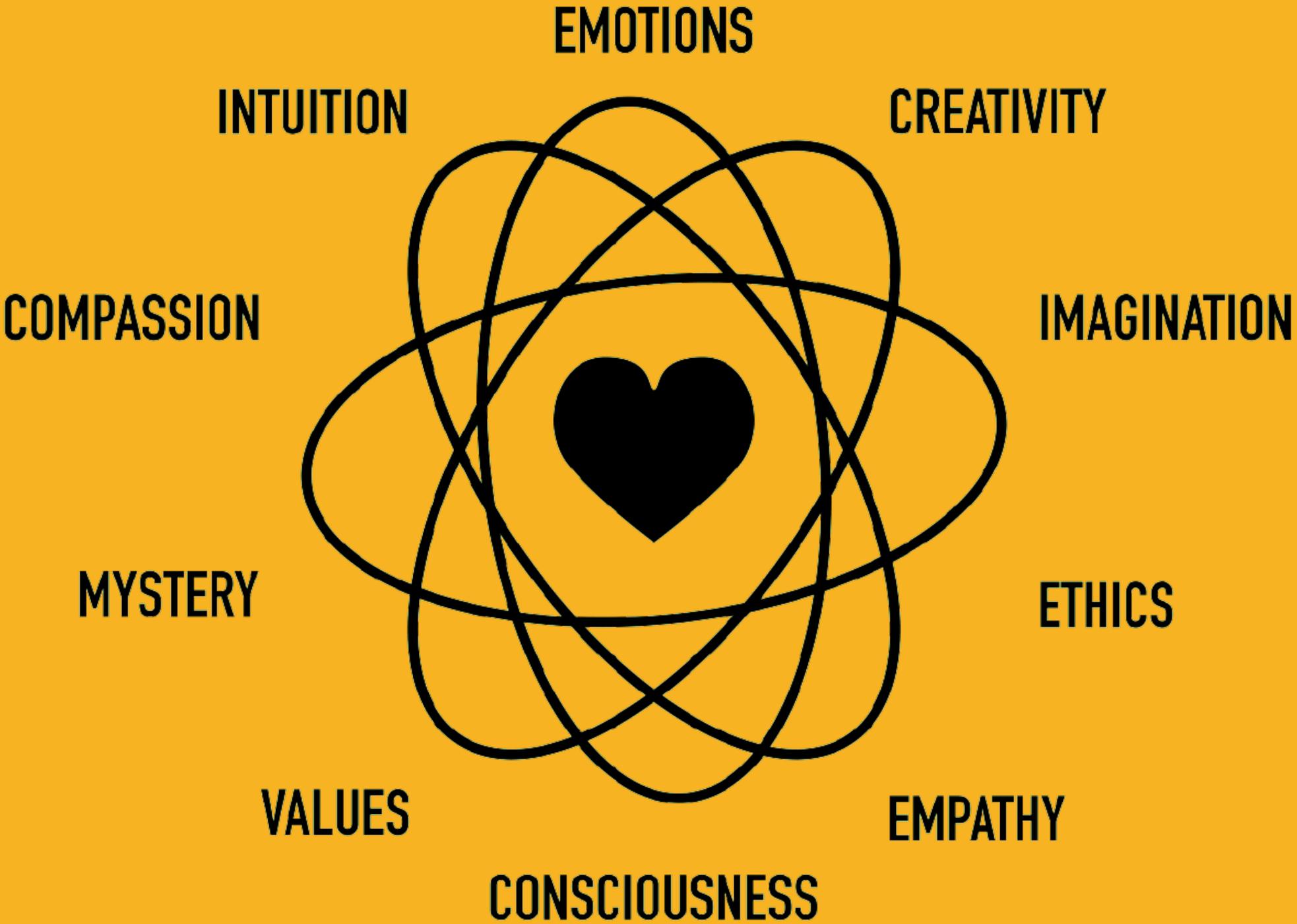
CRITICAL THINKING

The end of Routine is **NOT** the end of Human Work



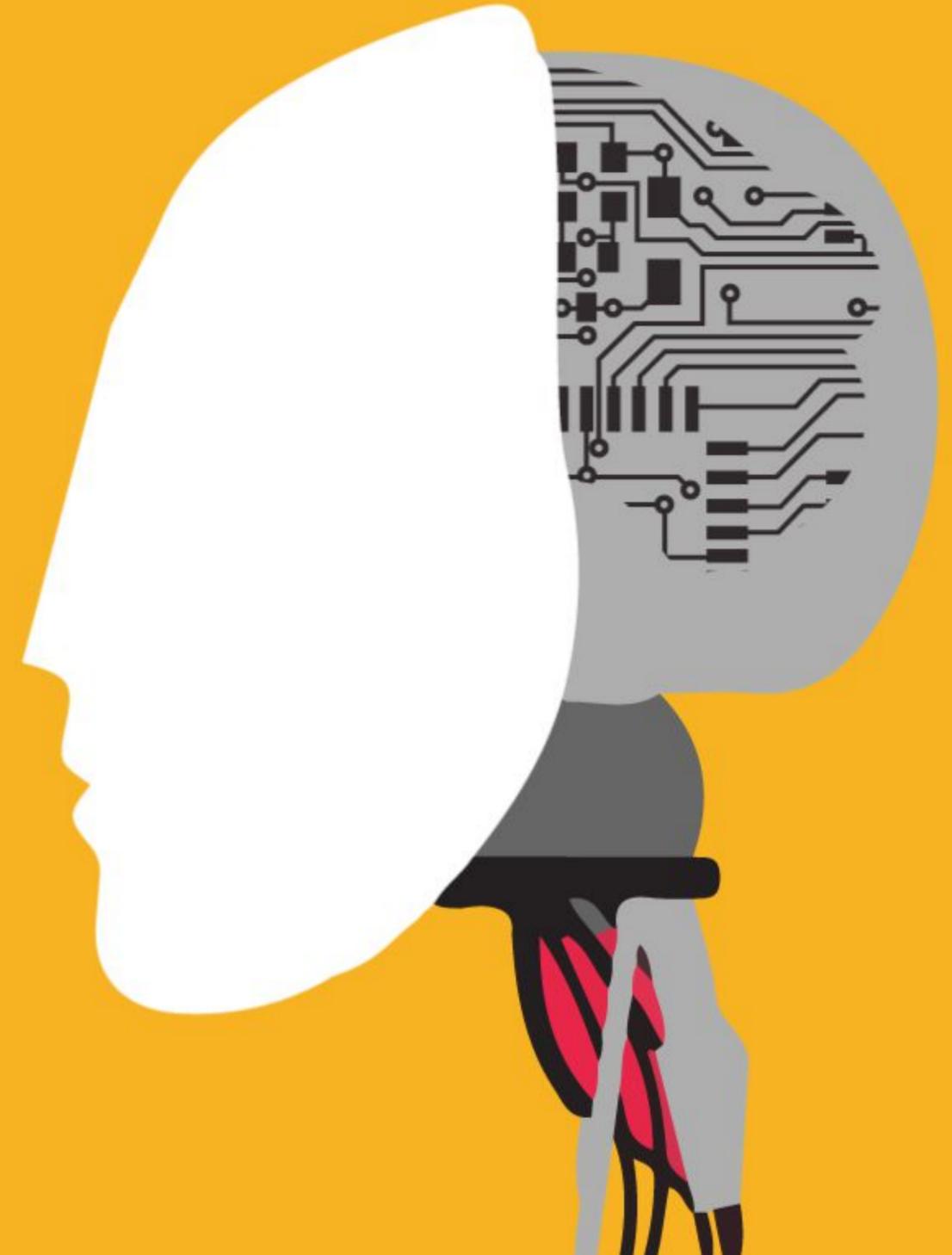
R O U T I N E

Anything that CANNOT be digitised, or automated, becomes extremely valuable

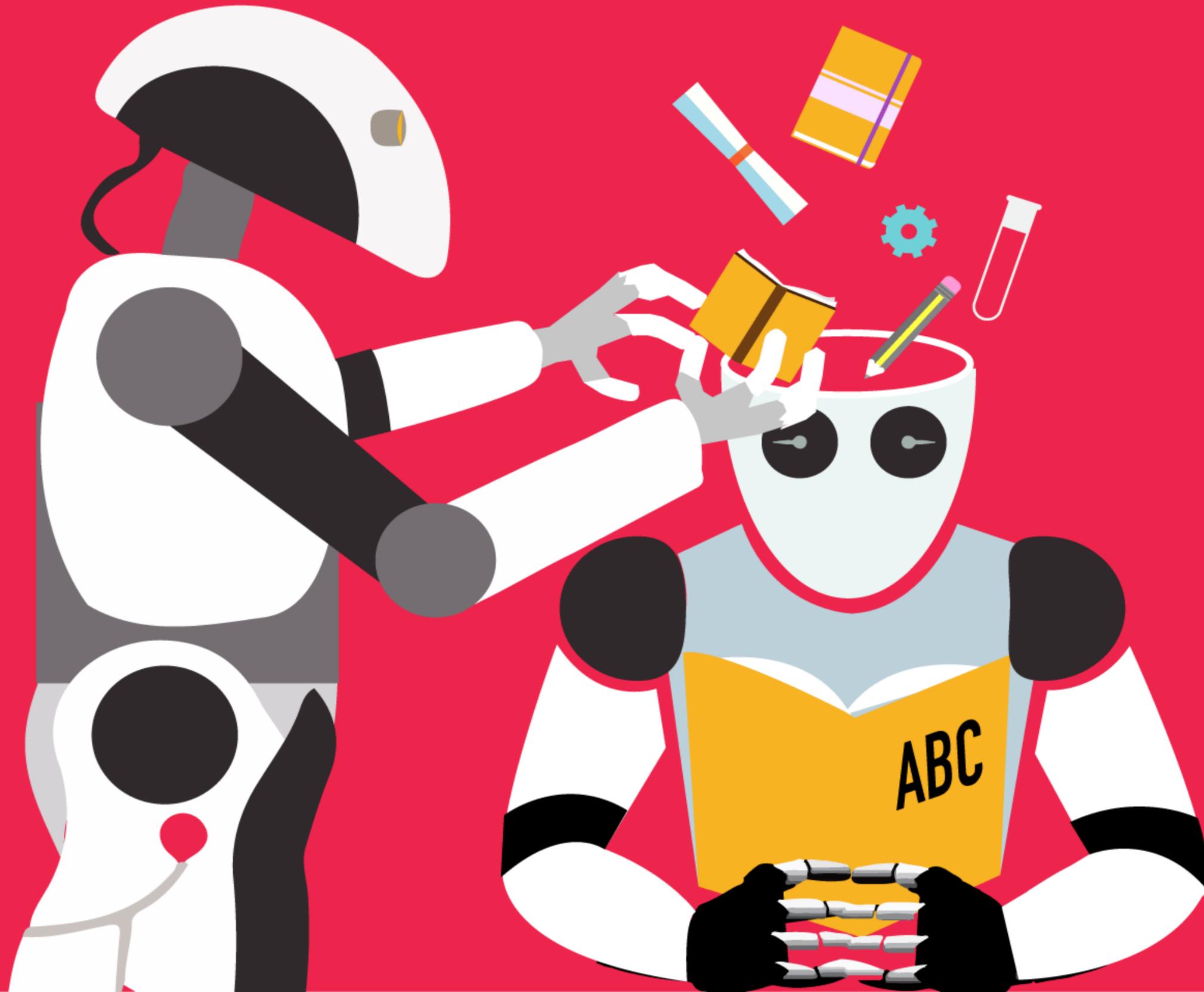


**“Whatever is very simple for a human is very hard for a computer,
and whatever is very hard for a human is simple for a computer”**

(riffing off Hans Moravec)

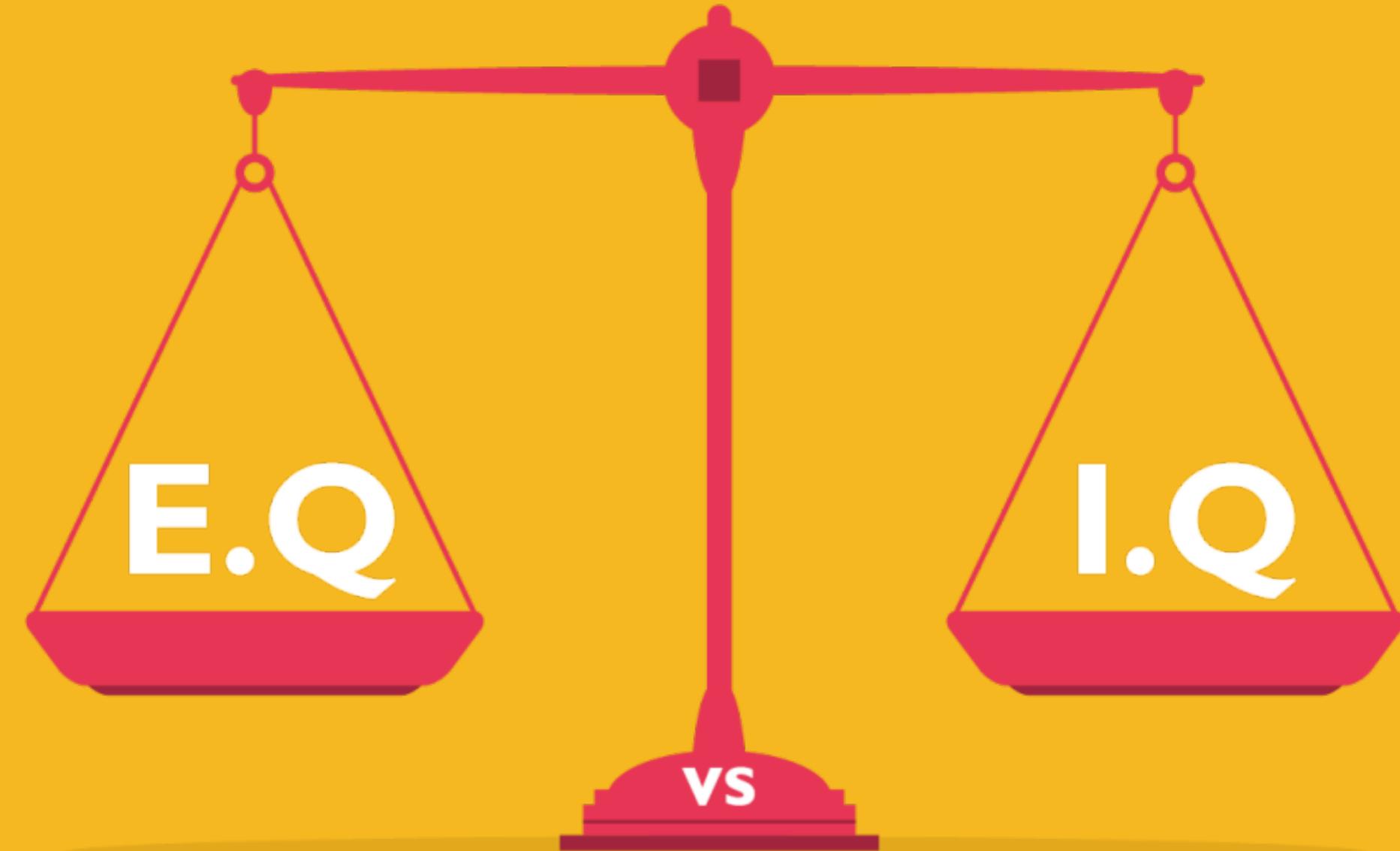


We can and **must** move up the food-chain from routine knowledge and tasks!



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

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**

Our ultimate job is to... BE HUMAN

HOW AI COULD CHANGE THE JOB MARKET ESTIMATED NET JOB CREATION BY INDUSTRY SECTOR, 2017-2037



How can we design a new kind of 'sustainable capitalism'?

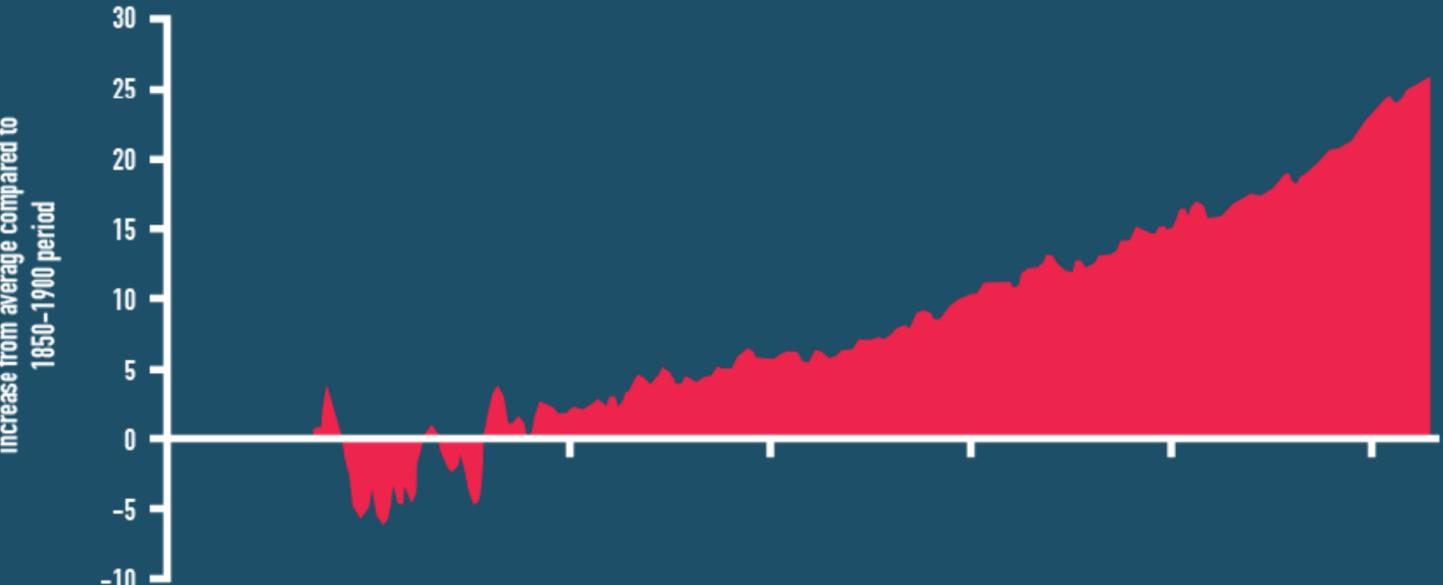
GLOBAL ENERGY USE
A TWENTY-FOLD INCREASE



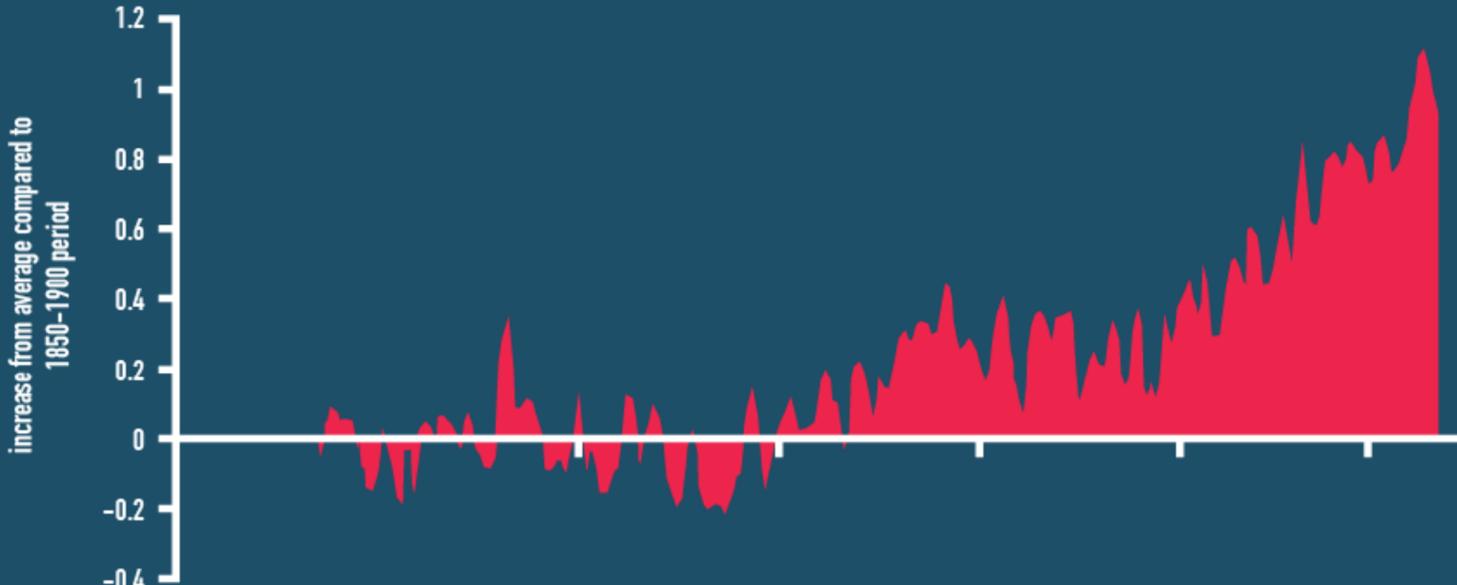
GLOBAL GDP
A HUNDRED-FOLD INCREASE



GLOBAL SEA LEVEL
A 25CM INCREASE



GLOBAL SURFACE TEMPERATURE
A 1°C INCREASE



We are staging the future by INACTION, and by ACTION we will create it



A new economic logic based on 'sustainable capitalism' is emerging



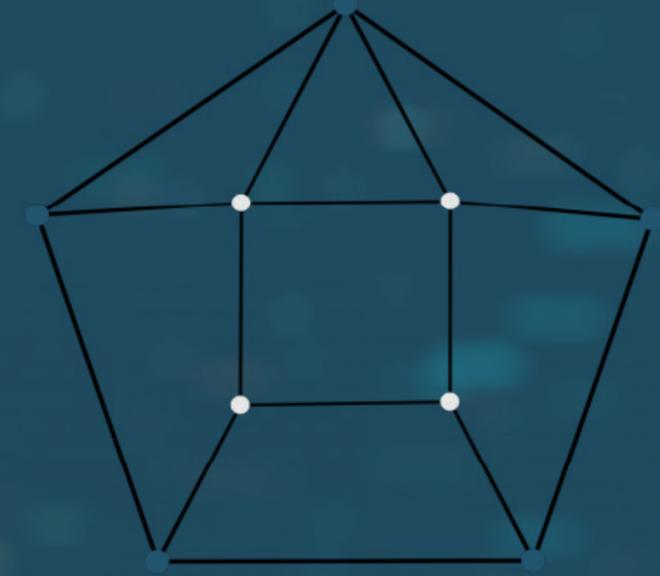
The 6 Future-Principles: Sustainable Capitalism



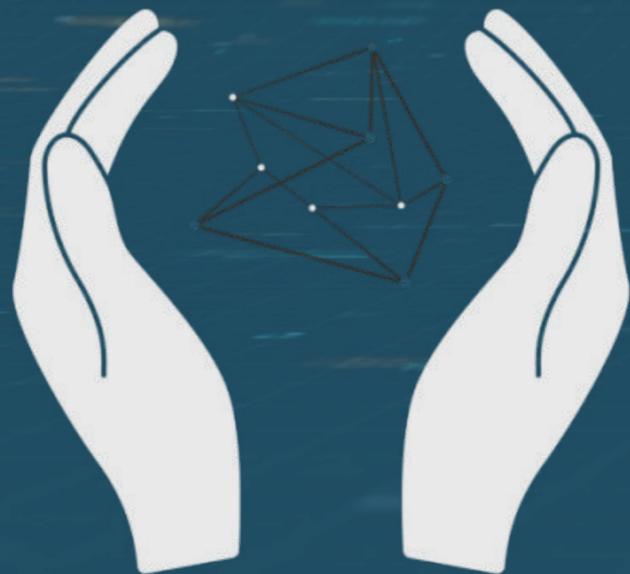
EXPONENTIAL



CONVERGENT



COMBINATORIAL



HOLISTIC



CIRCULAR



HUMAN

The future is better than we think – IF we can balance technological progress with human purpose

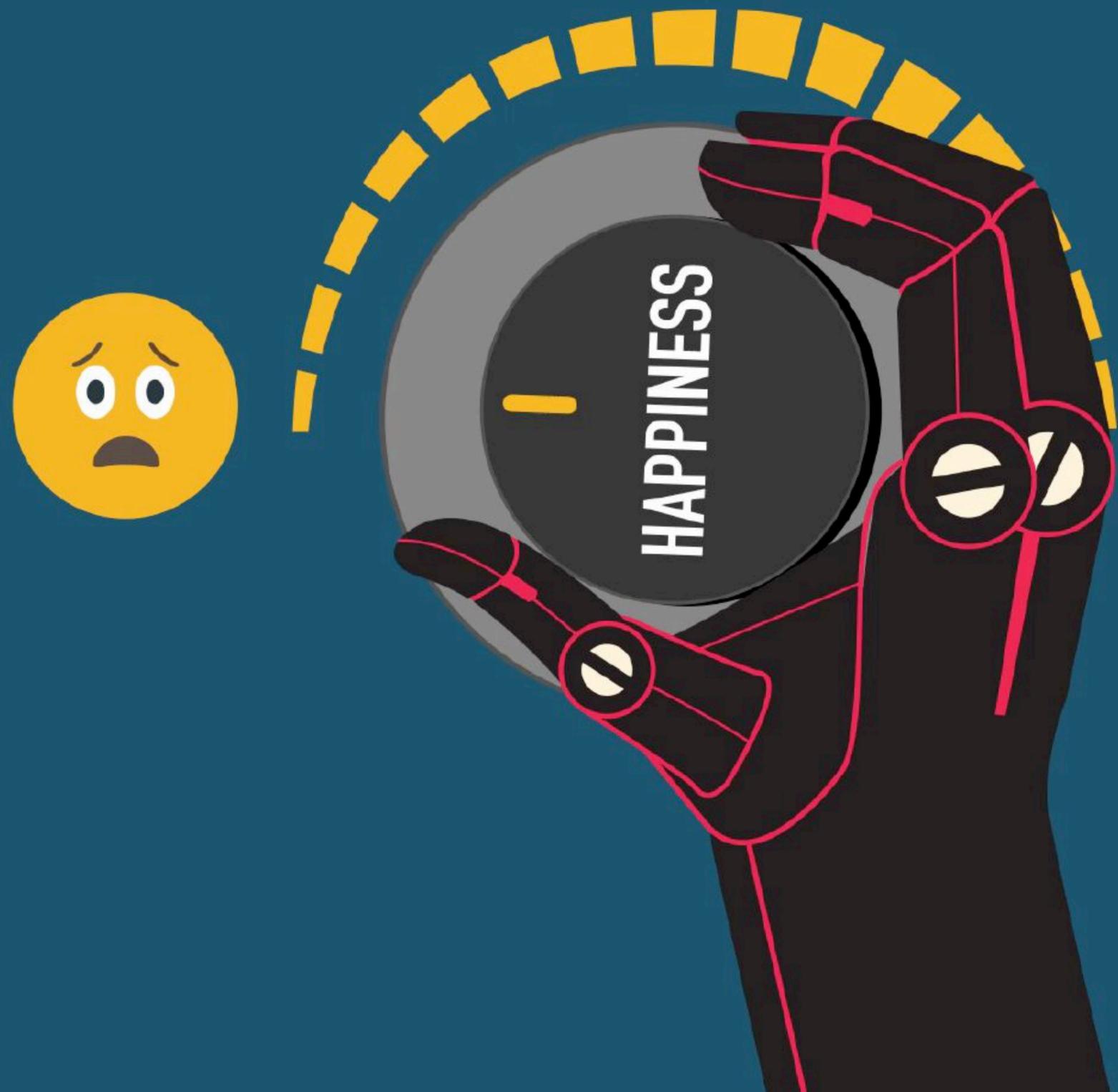


Heaven or hell? Our future hinges on foresight, governance and collaboration



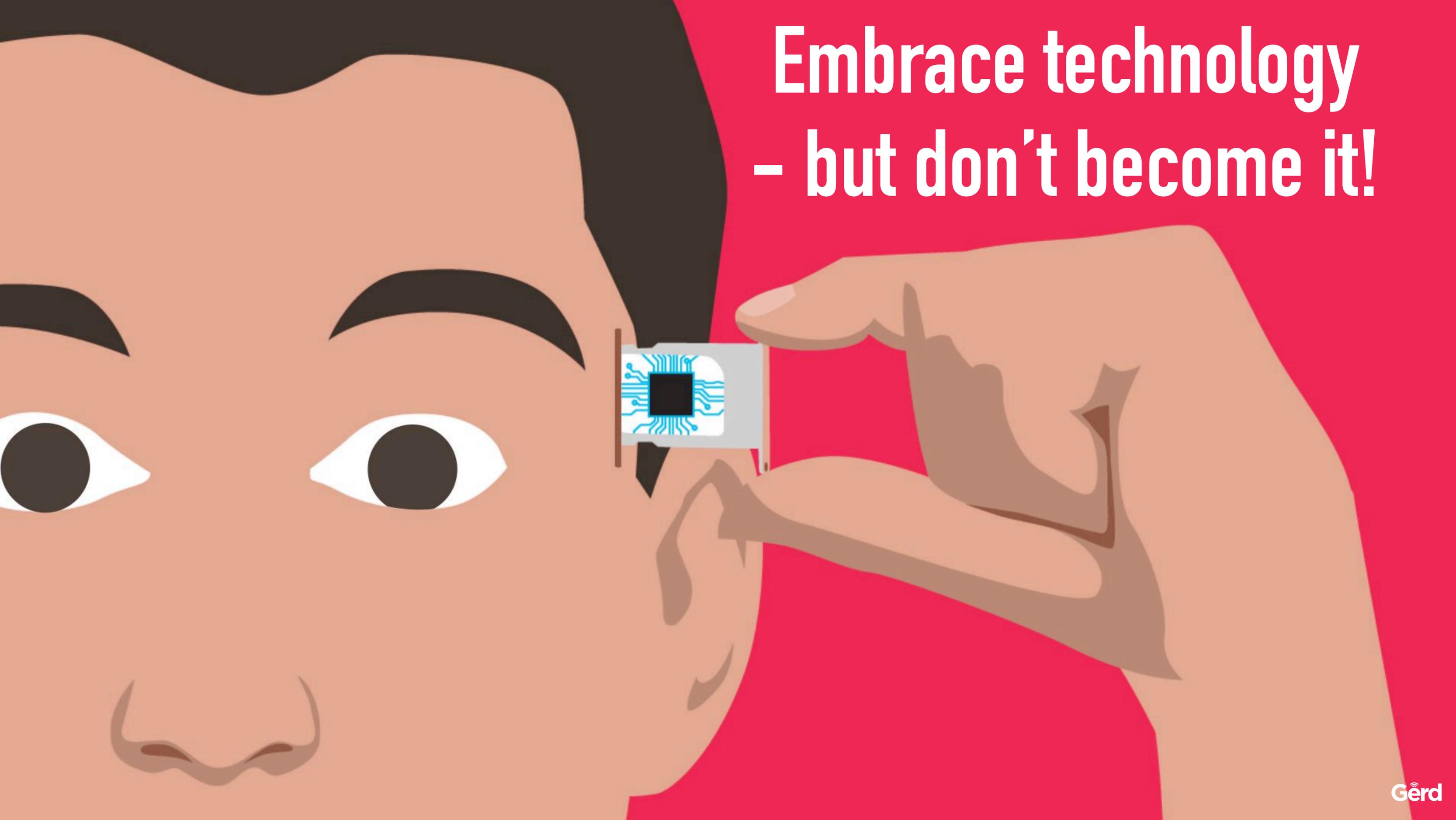


We must invest as much in
humanity as we do in technology!



Because
happiness
is not an
algorithm, and
humans aren't
code!

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



Data, information, knowledge and wisdom are closely related concepts, but each has its own role in relation to the other, and each term has its own meaning. According to a common view, data is collected and analyzed; data only becomes information suitable for making decisions once it has been analyzed in some fashion [7]. One can say that the extent to which a set of data is informative to someone depends on the extent to which it is unexpected by that person. The amount of information present in a data stream may be characterized by its Shannon entropy.

MODENA
SMART LIFE
2019

Humans



Artificial Intelligence

SIAMO EVOLUZIONE TECNOLOGICA

Modena 27/28/29 settembre



techvshuman.com



gerd.cloud



gerdtube.com

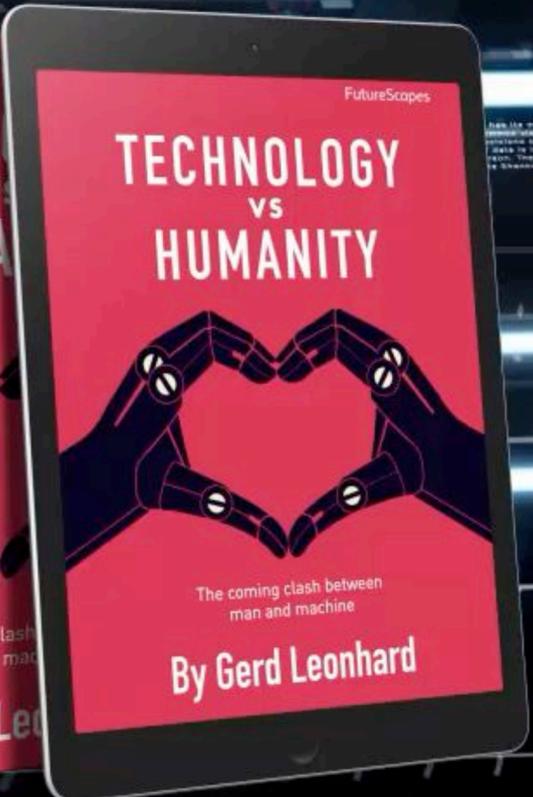
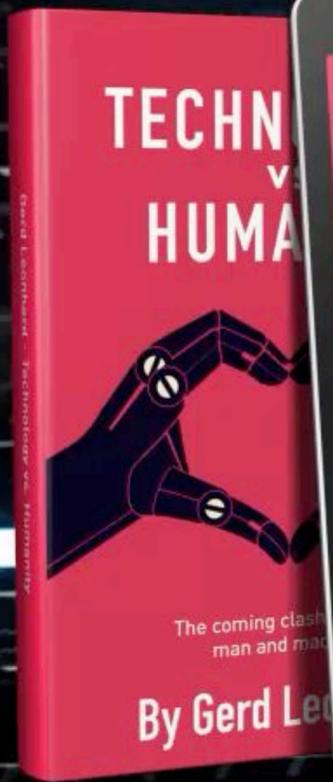


@gleonhard



futuristgerd.com

**THANK YOU
FOR YOUR TIME**



amazon.com