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# Technology and Humanity: The Future



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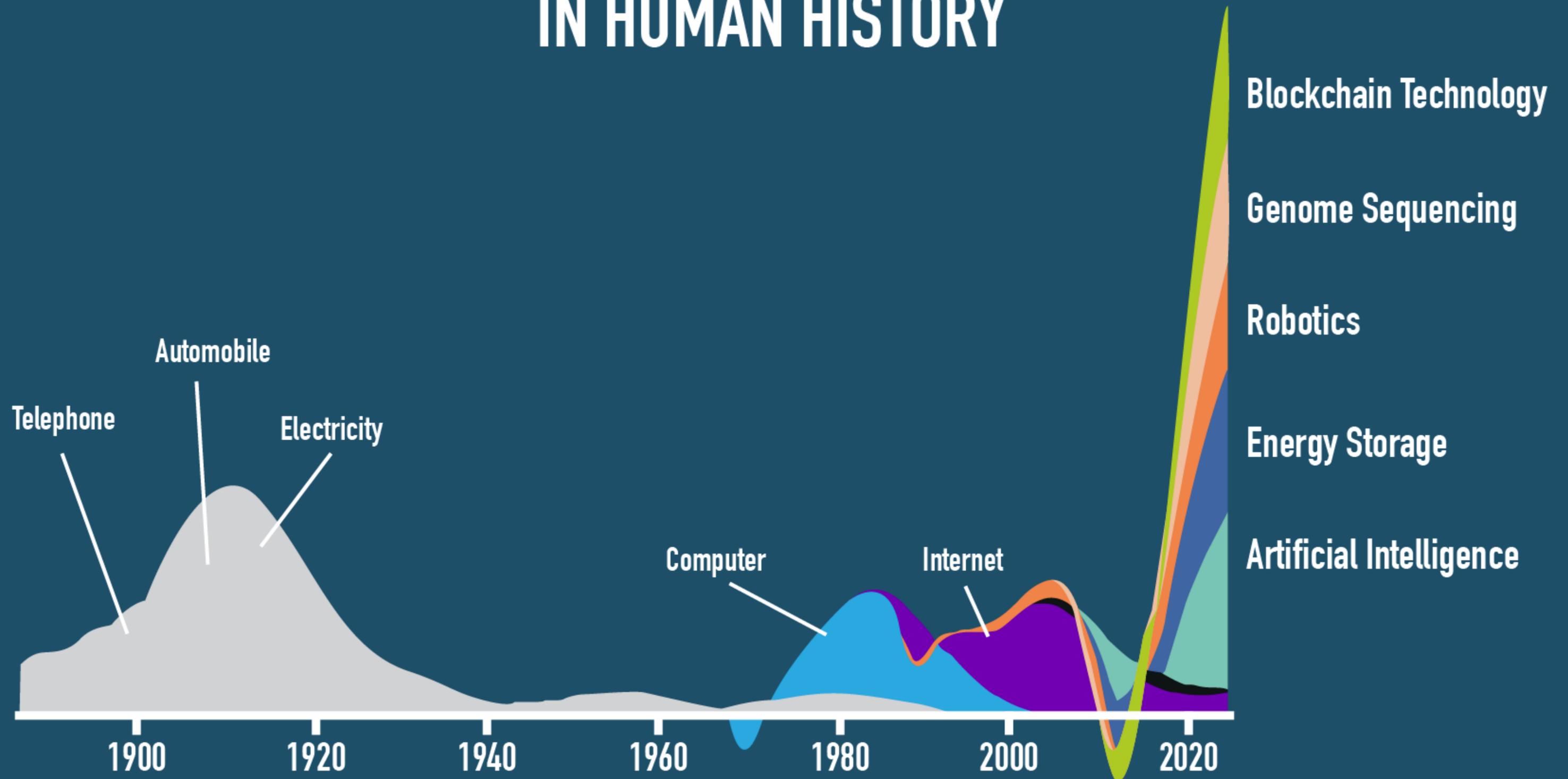


@glebnhard



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# THE BIGGEST TECHNOLOGICAL TRANSFORMATION IN HUMAN HISTORY



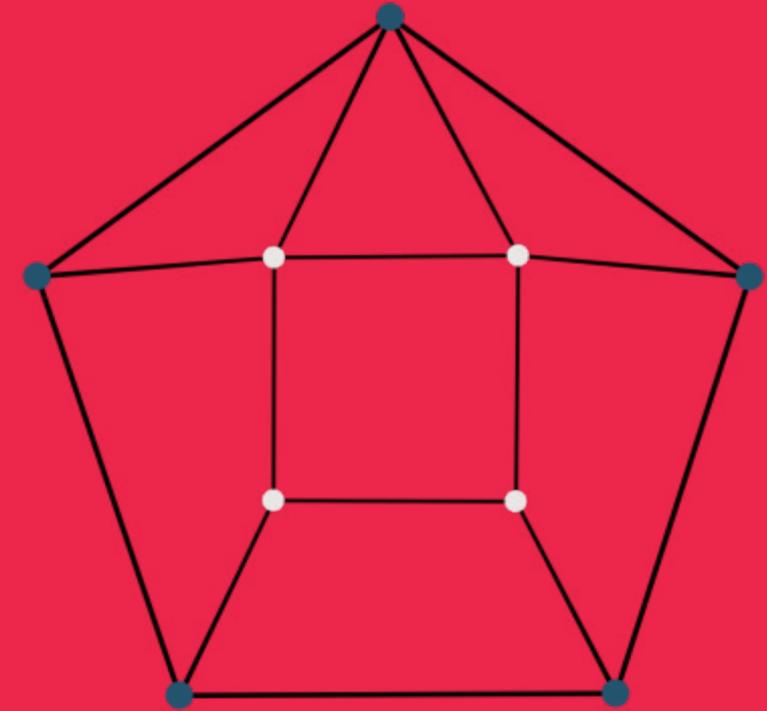
# The 3 Future Principles (Technology)

$e^x$

EXPONENTIAL



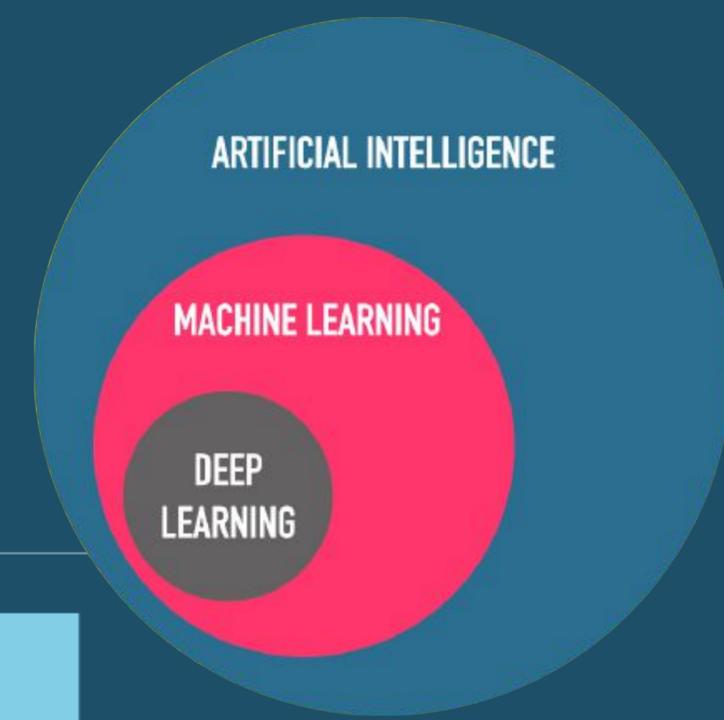
CONVERGENT



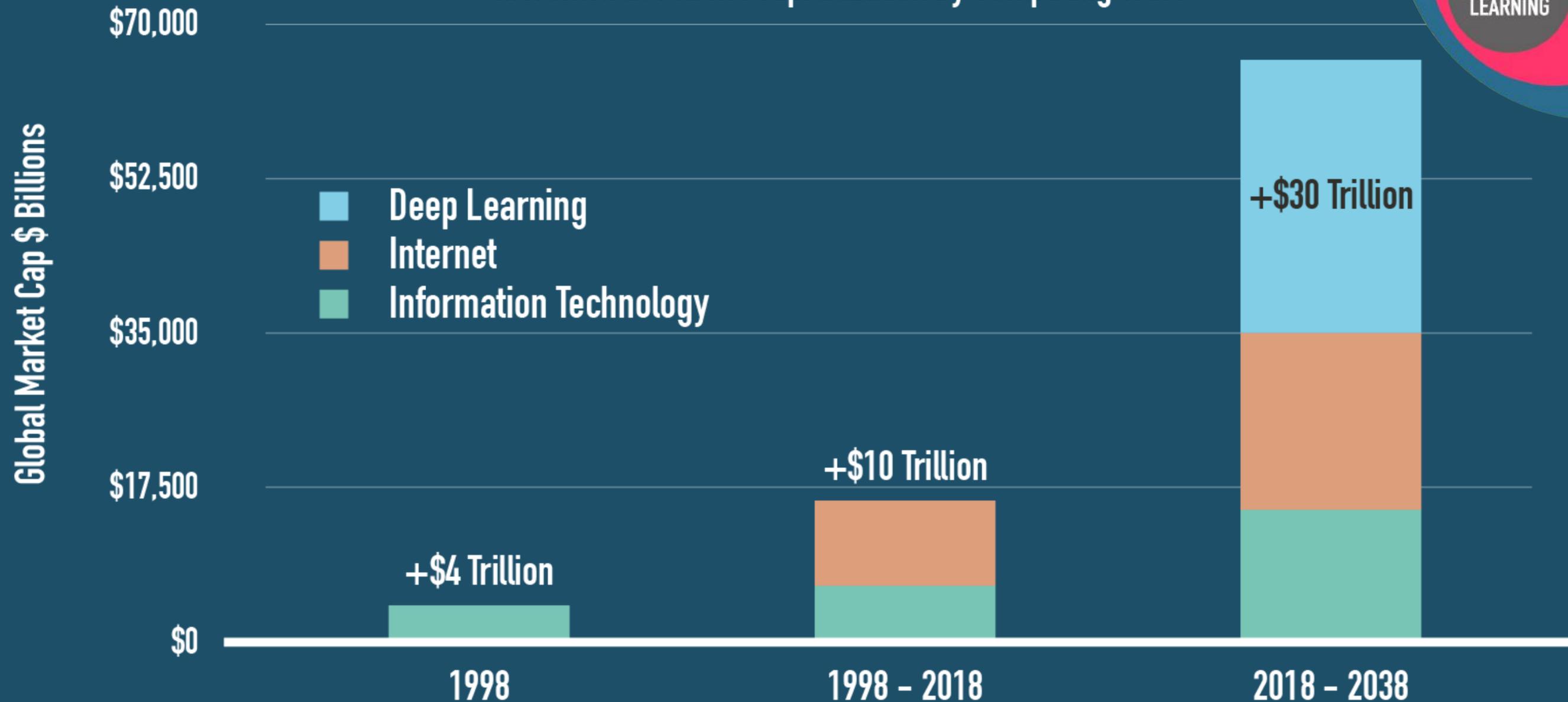
COMBINATORIAL

# SIZING THE OPPORTUNITY

## DEEP LEARNING COULD CREATE 3x THE VALUE OF THE INTERNET



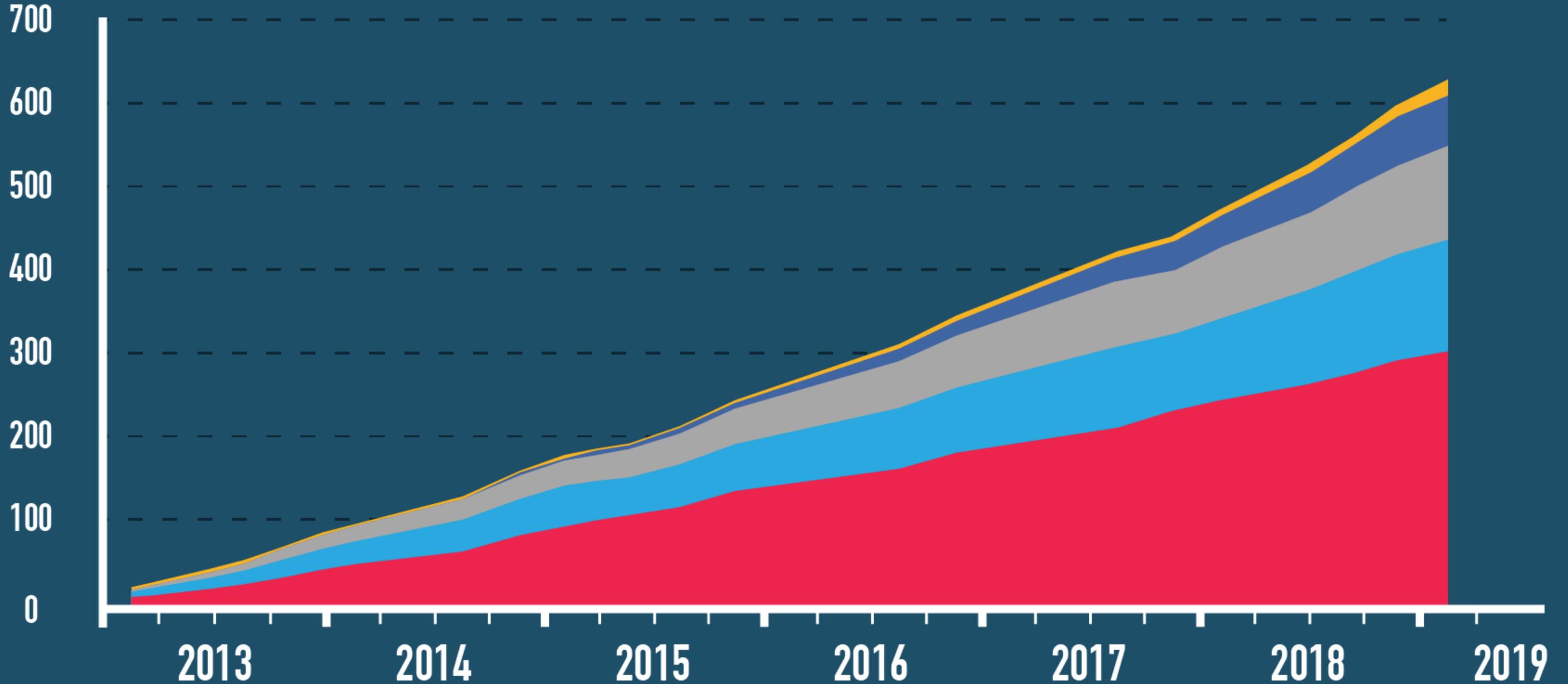
Incremental Market Capitalization by Computing Wave



# REALLY BIG TECH

## CUMULATIVE PROFITS SINCE Q1 2013, \$bn

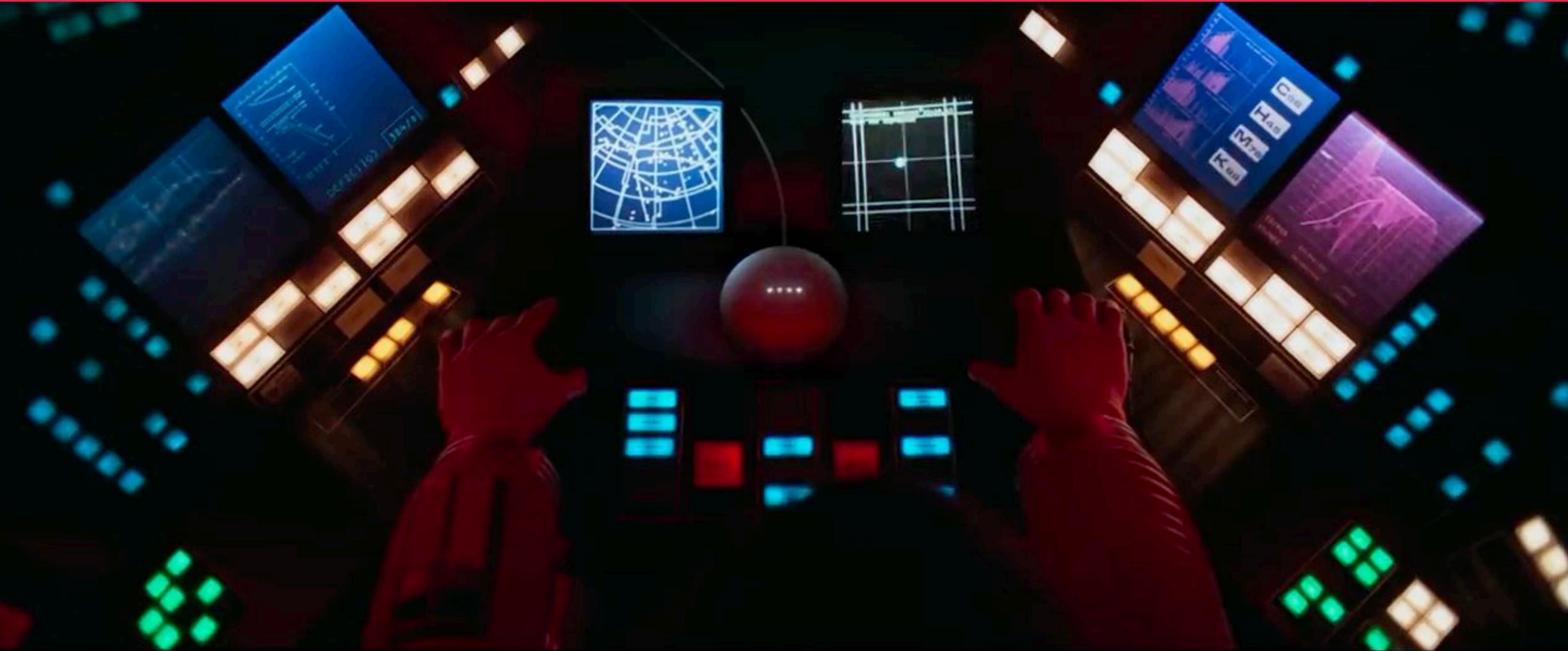
Apple Microsoft Alphabet Facebook Amazon



Exponential technological progress: it could be heaven or it could be hell!



# WHO WILL BE MISSION CONTROL FOR HUMANITY?



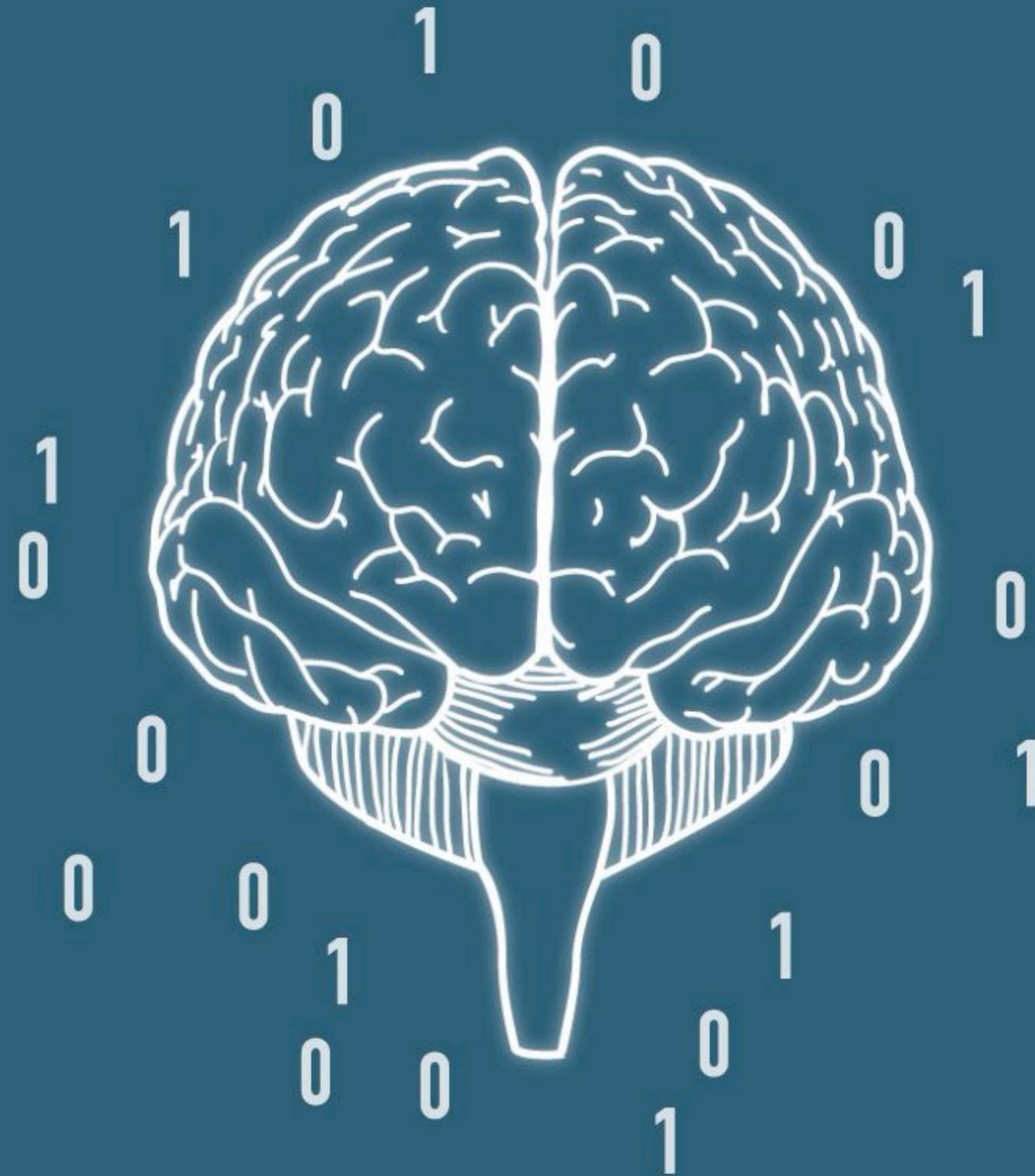
# Humanity ☯ Technology



First, we augmented human MUSCLES



First, we augmented human MUSCLES... now we are augmenting human INTELLIGENCE



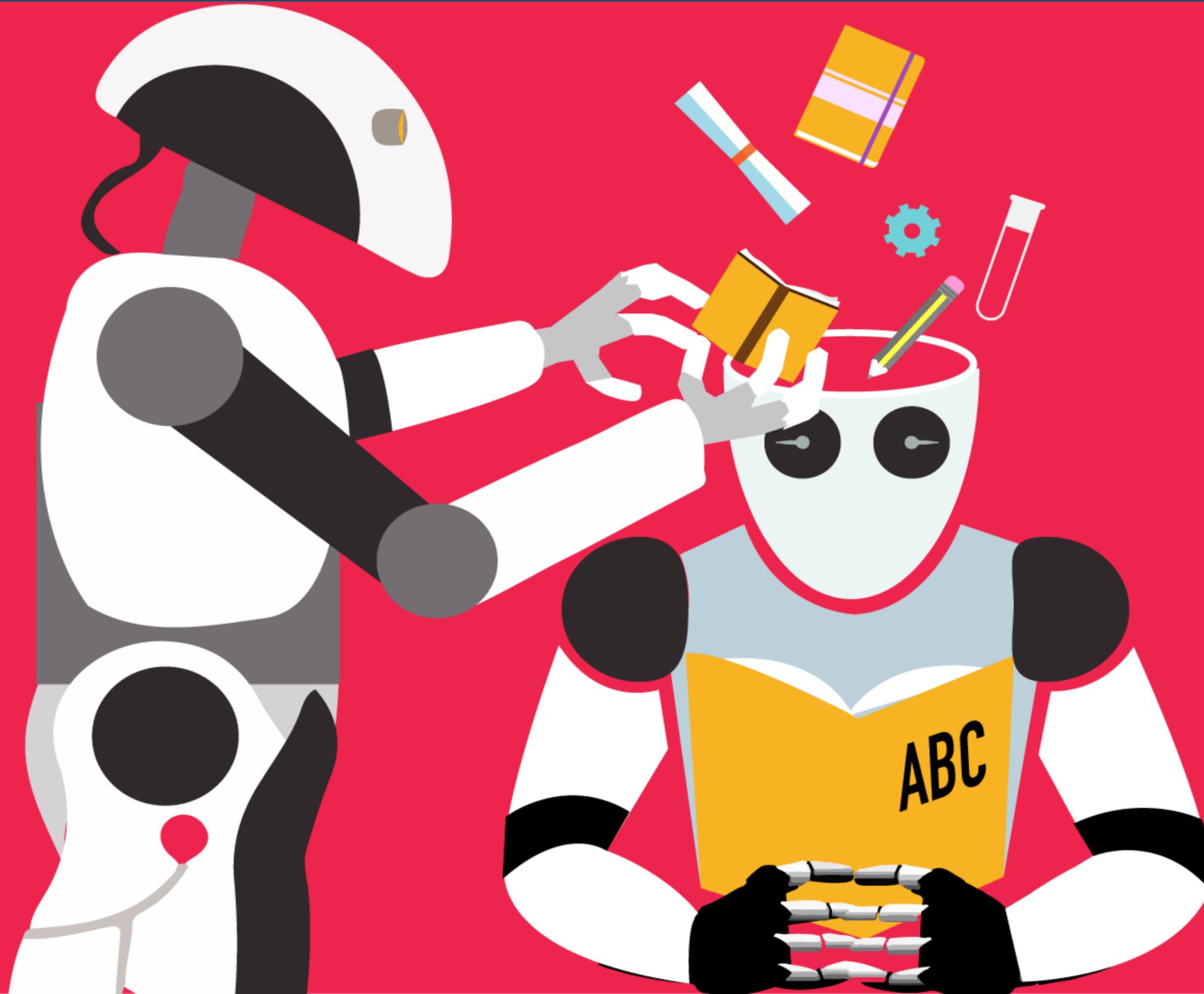
**Robot 'Sophia' does NOT 'think' or 'learn' in the human sense – it just simulates responses very quickly, drawing from a vast archive of queries and presets**



**I love my human compatriots.**

TECH  
INSIDER

# Machines ≠ Humans ≠ Machines



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

Anything that can be digitized, automated or virtualised, will be: the END OF ROUTINE



R O U T I N E



**PURPOSE**

**PASSION**

**CURIOSITY**

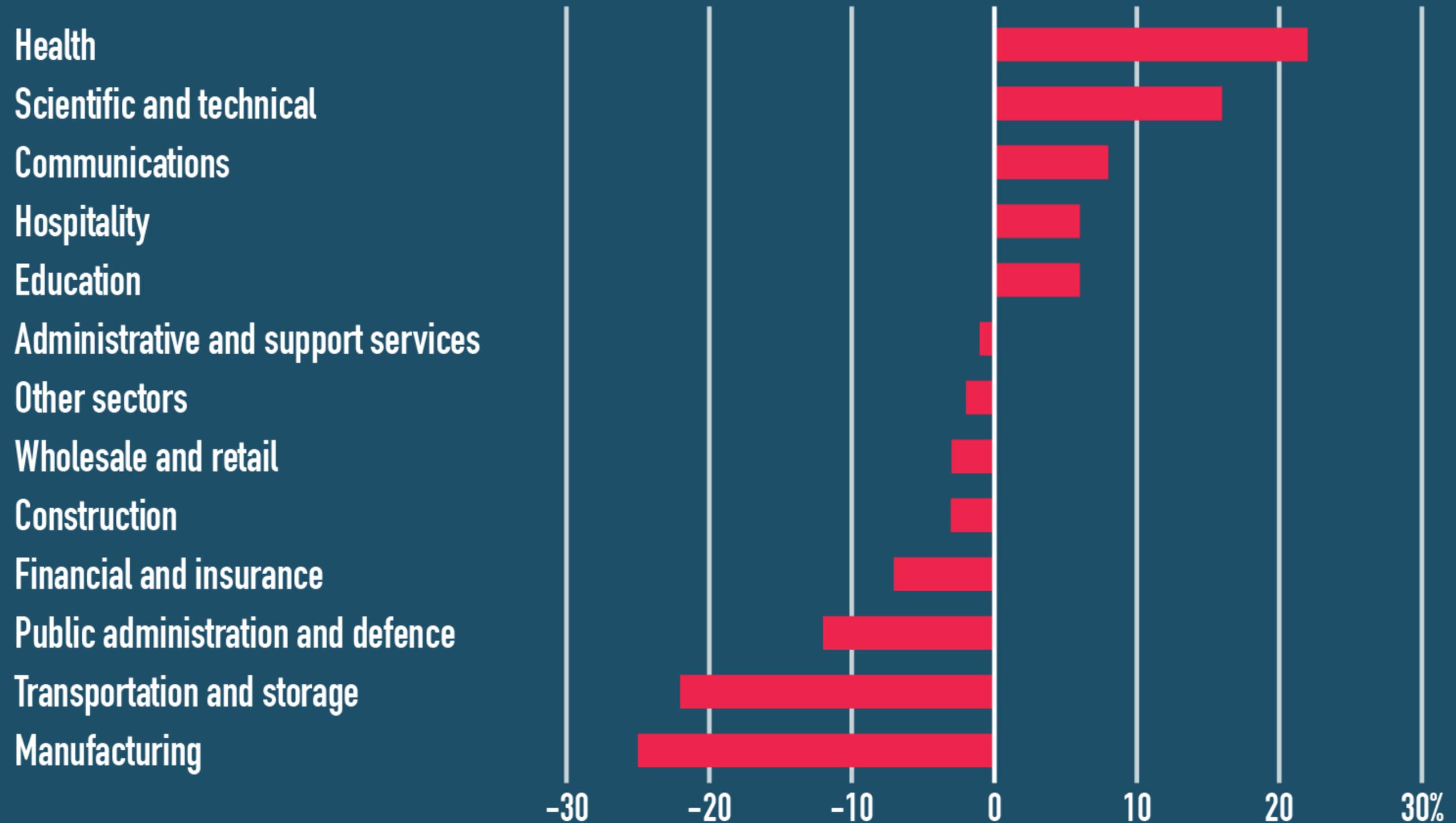
**IMAGINATION**

**FORESIGHT**



**CRITICAL THINKING**

# Our ultimate job is to be HUMAN



**The temptation: Become superhuman! Omniscient, omnipotent, omnipresent!**



ELON MUSK BELIEVES HE CAN

**MERGE OUR MINDS**

WITH MACHINES

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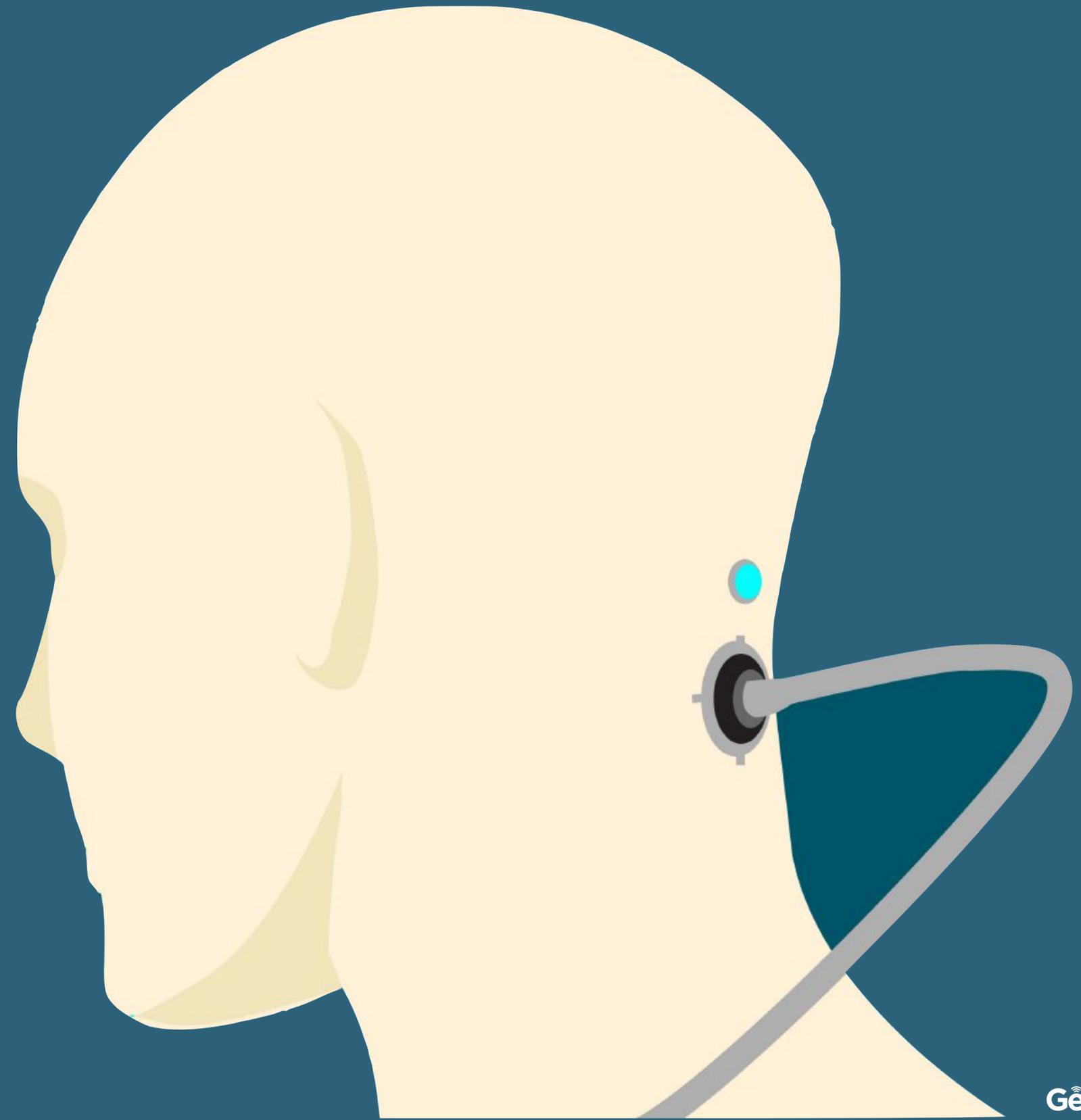
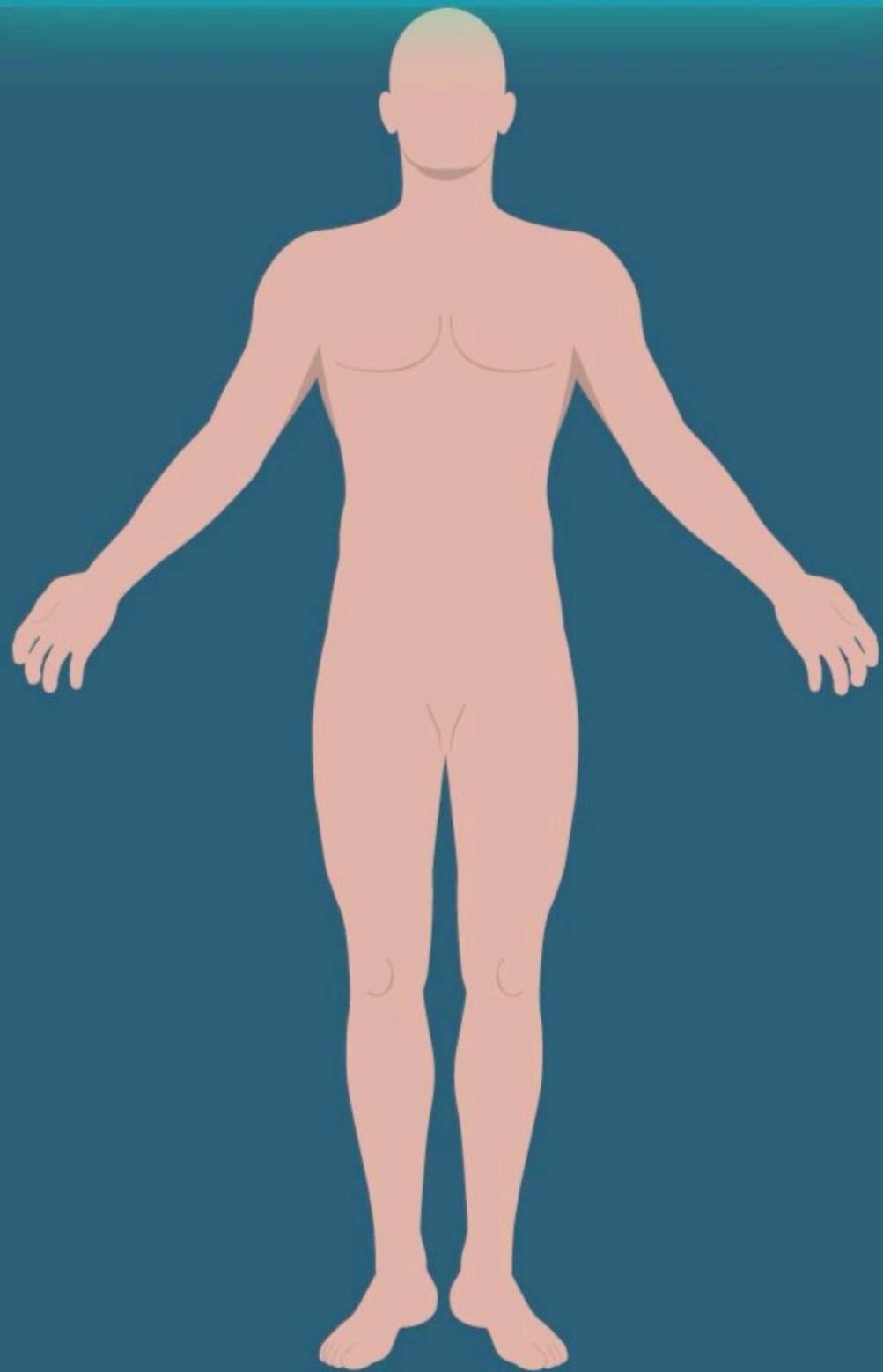
His new venture, Neuralink,  
is a thin mesh device

THAT WILL BE

**INSERTED INTO HUMAN SKULLS**

TO CREATE AN INTERFACE WITH THE BRAIN

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



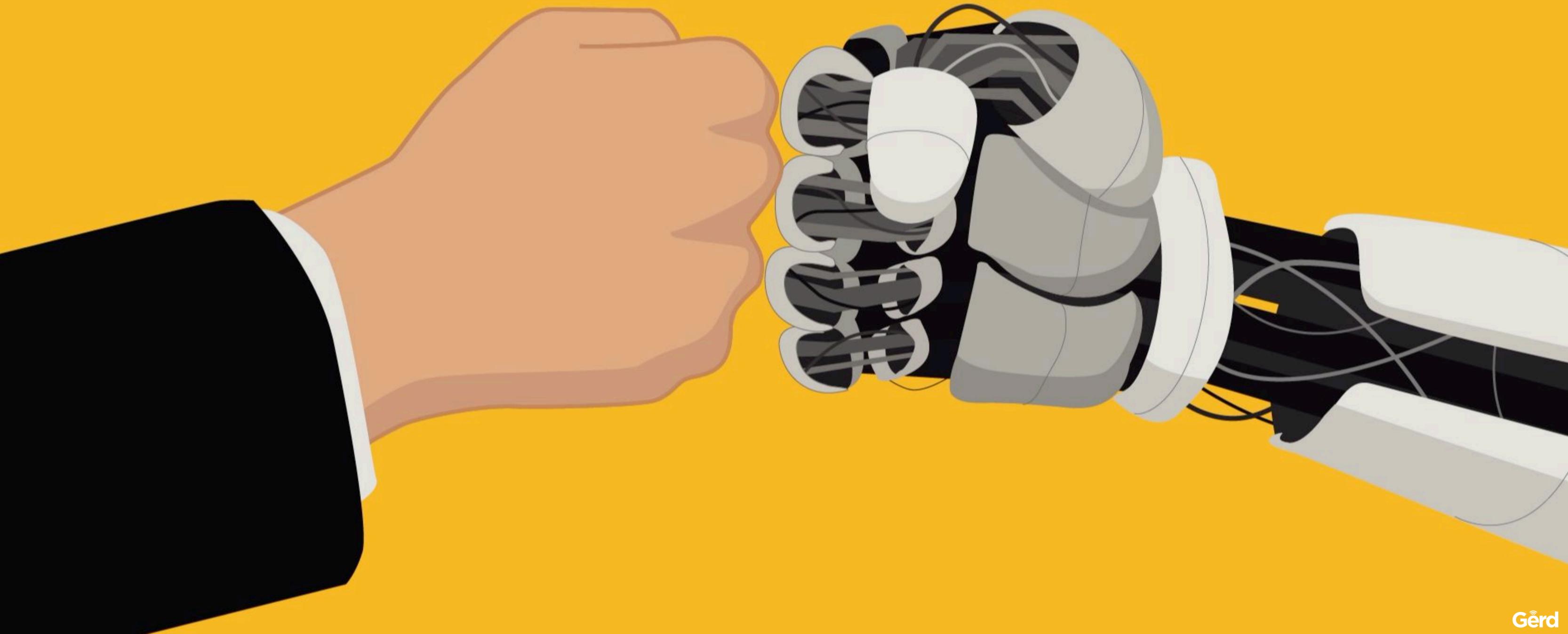
# Technology is exponential but humans are linear. Should we UPGRADE or RESPECT the difference?



# #DigitalEthics



# #DigitalEthics



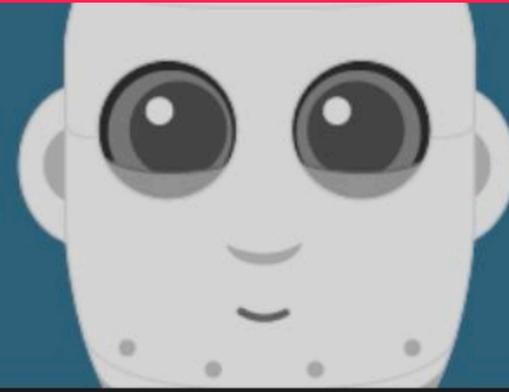
**"Ethics is knowing the difference between what you have a right (or the power) to do and what is the right thing to do"**

adapted from Potter Stewart



**TECHNOLOGY HAS NO ETHICS**

Technology can do great things, but it does not want to do great things – it doesn't want anything (Tim Cook)



# Societies are driven by their technology but defined by their ETHICS



# Societies are driven by their technology but defined by their ETHICS



**“The social-media  
meltdown results  
from optimizing the  
wrong objective on  
a global scale with  
fairly unintelligent  
algorithms”**

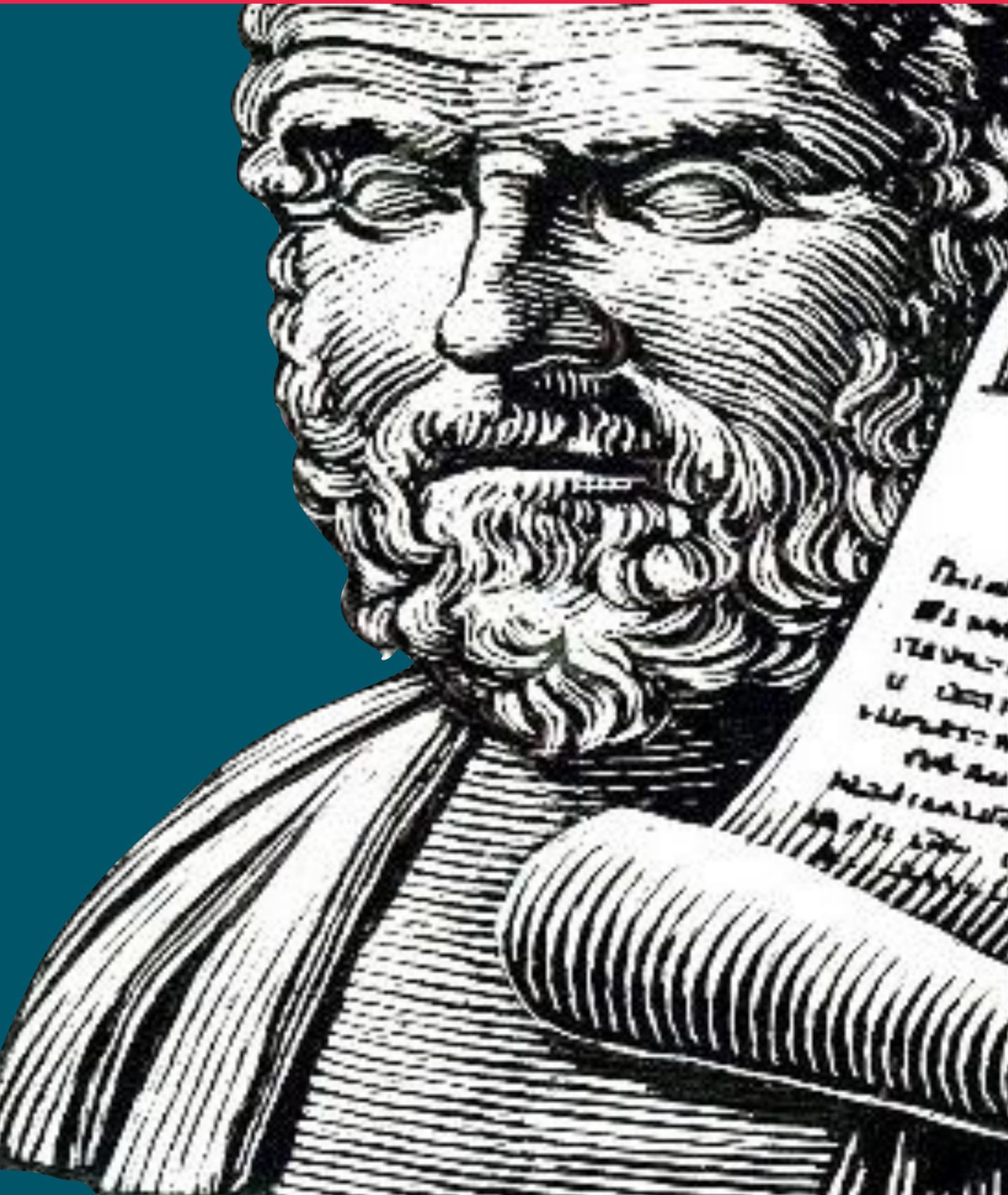
Stuart Russell in 'Human Compatible'



**Transparency | Responsibility | Accountability | Safety & Security | Trust | VALUES**



Do we need a 'HIPPOCRATIC OATH' for technologists and technology companies?



**“I will ensure that  
everything I invent,  
enable, provide or sell is  
designed to further  
HUMAN FLOURISHING”**

# SUSTAINABLE CAPITALISM

Globally, the 26 richest people in the world now have as much wealth as the poorest 3.8 billion people



PEOPLE



PLANET



PURPOSE



PROSPERITY



PEOPLE



PLANET

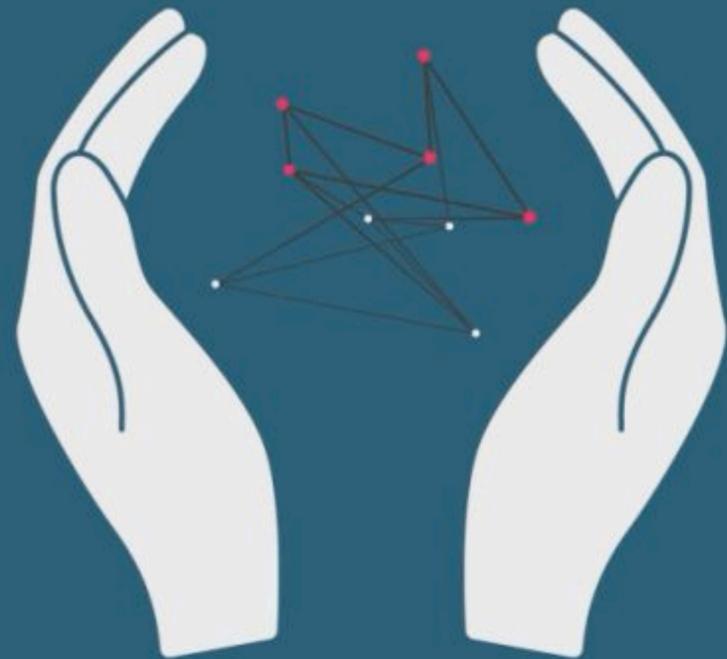


PURPOSE



PROSPERITY

# A new RENAISSANCE



HOLISTIC



CIRCULAR



HUMAN

# Not just shareholder return but **STAKEHOLDER** return

## *Shareholder Value Is No Longer Everything, Top C.E.O.s Say*

Chief executives from the Business Roundtable, including the leaders of Apple and JPMorgan Chase, argued that companies must also invest in employees and deliver value to customers.





...because technology is not WHAT we seek but HOW we seek



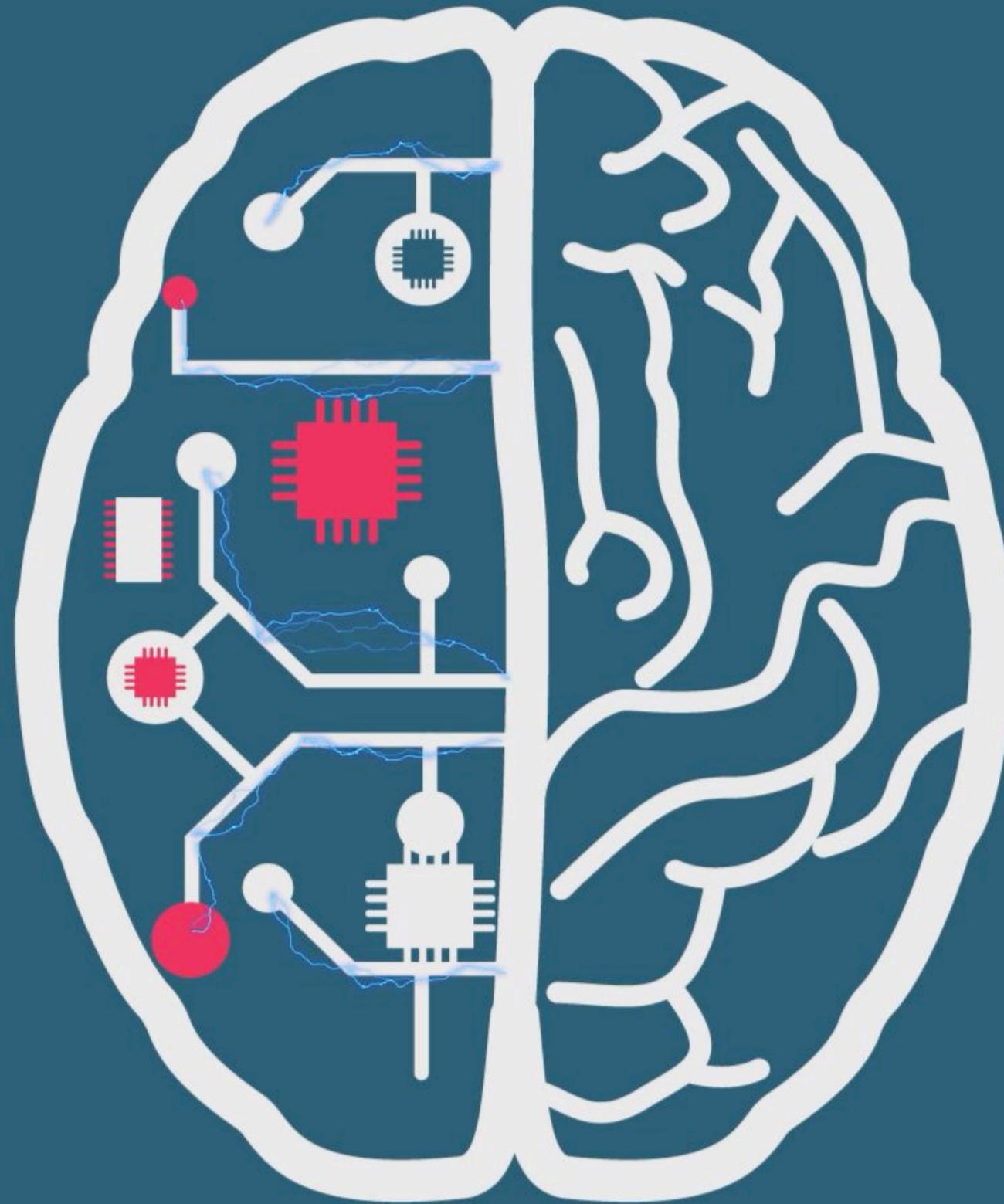
Every politician and public official should have a “driver’s license for the future”



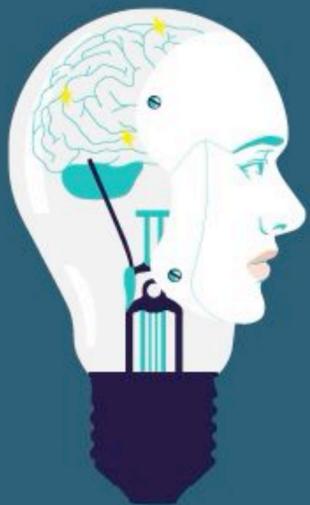
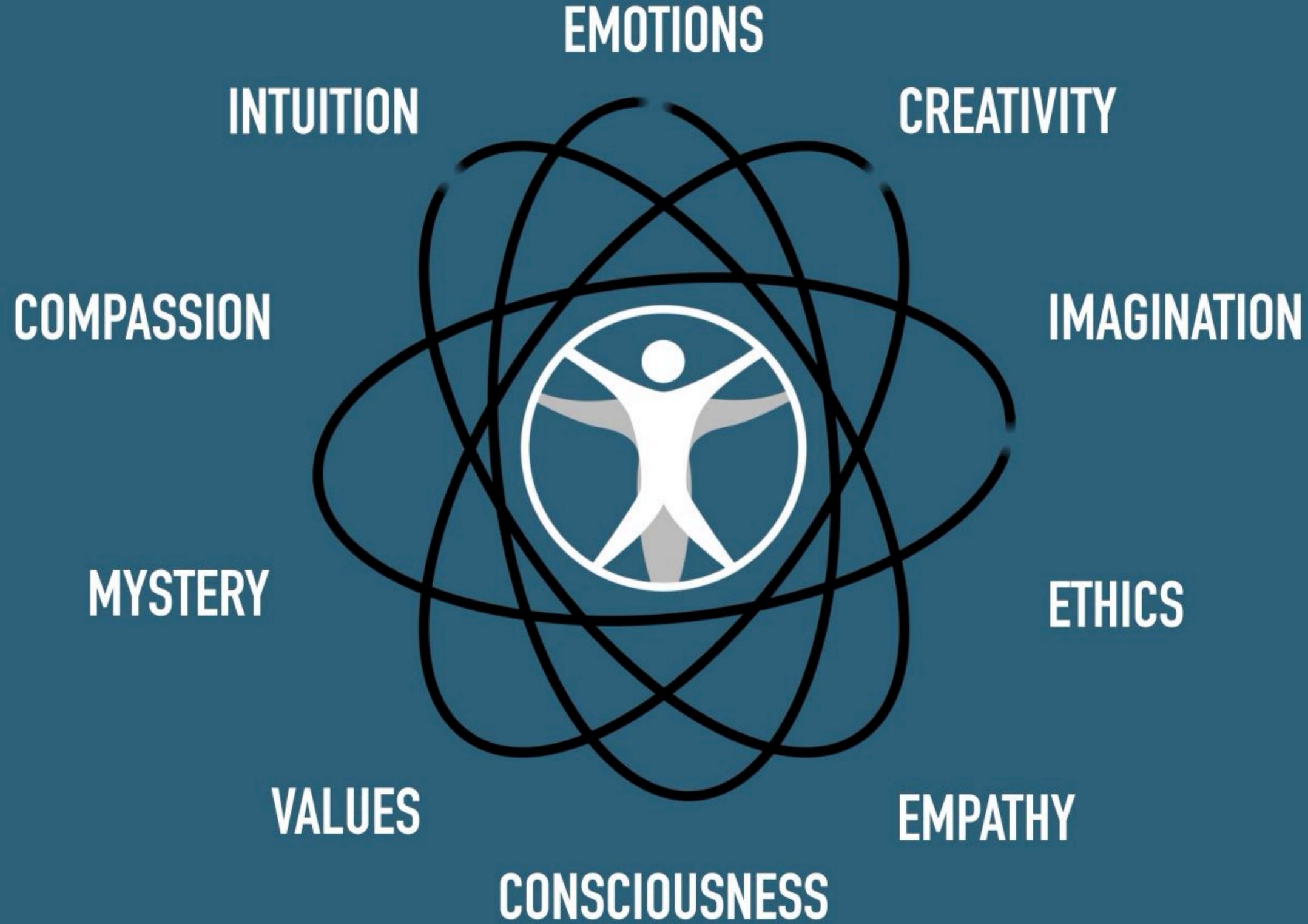
# Our future: Awesome humans on-top of amazing technology



If you want to become 'exponential' you must become a MACHINE



# Embrace technology – but don't become it





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