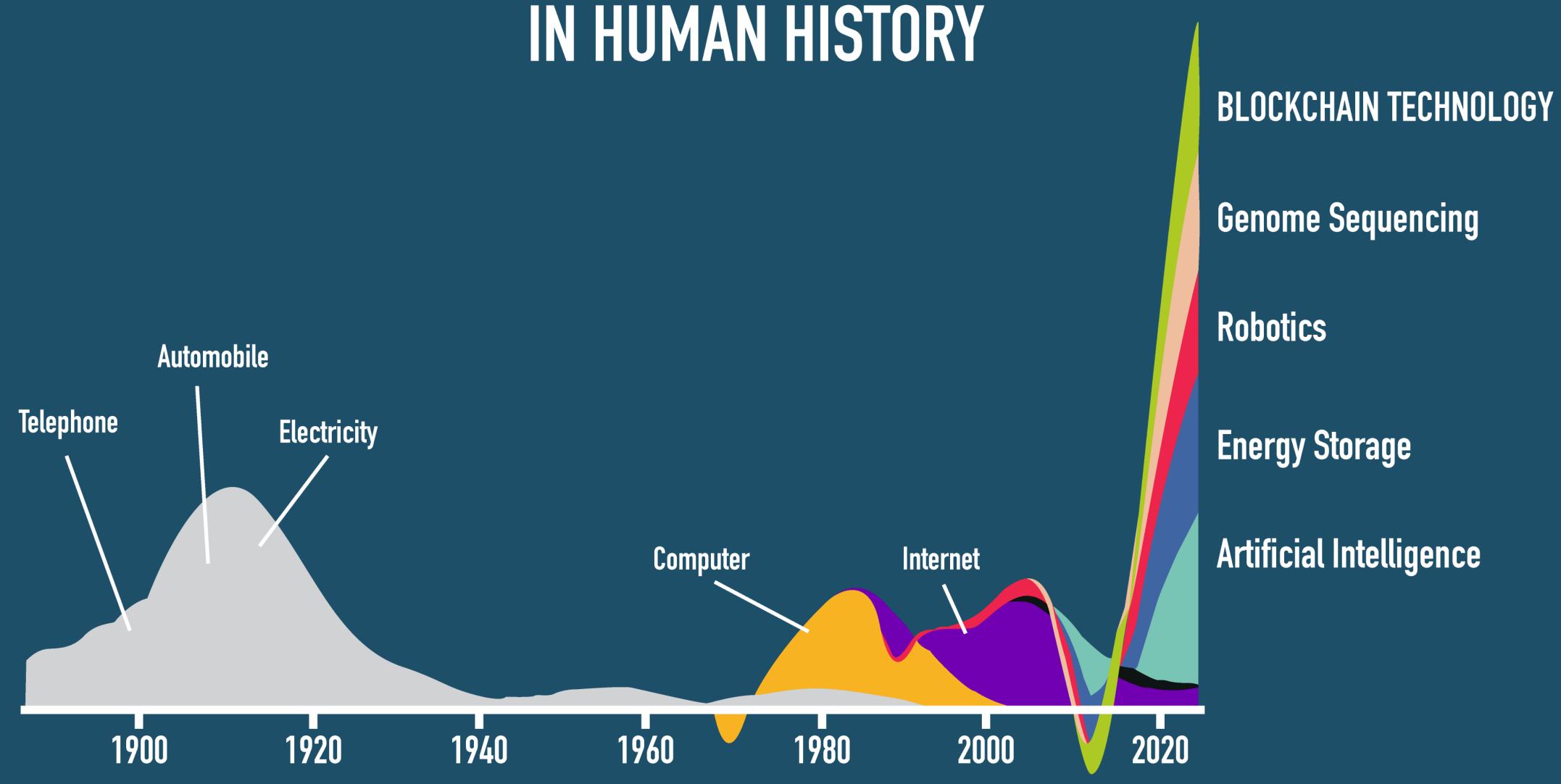


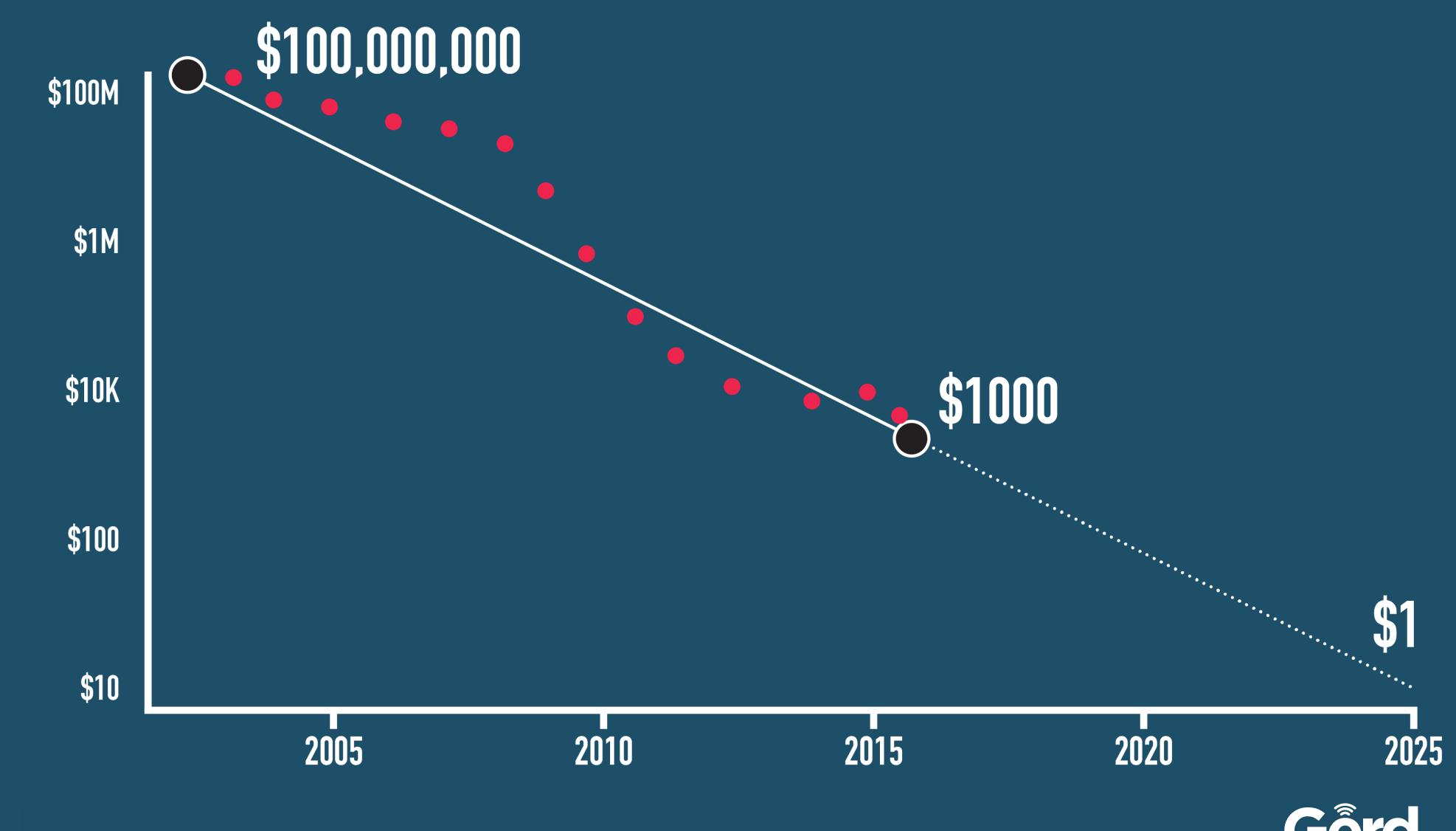
ASSUME LESS - DISCOVER MORE



THE LARGEST TECHNOLOGICAL TRANSFORMATION

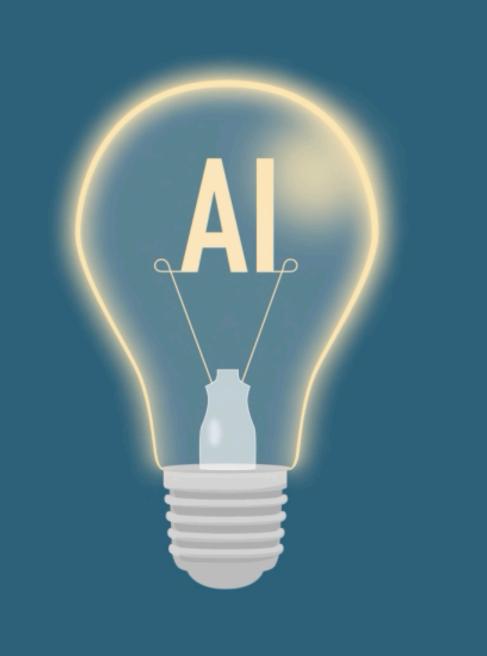


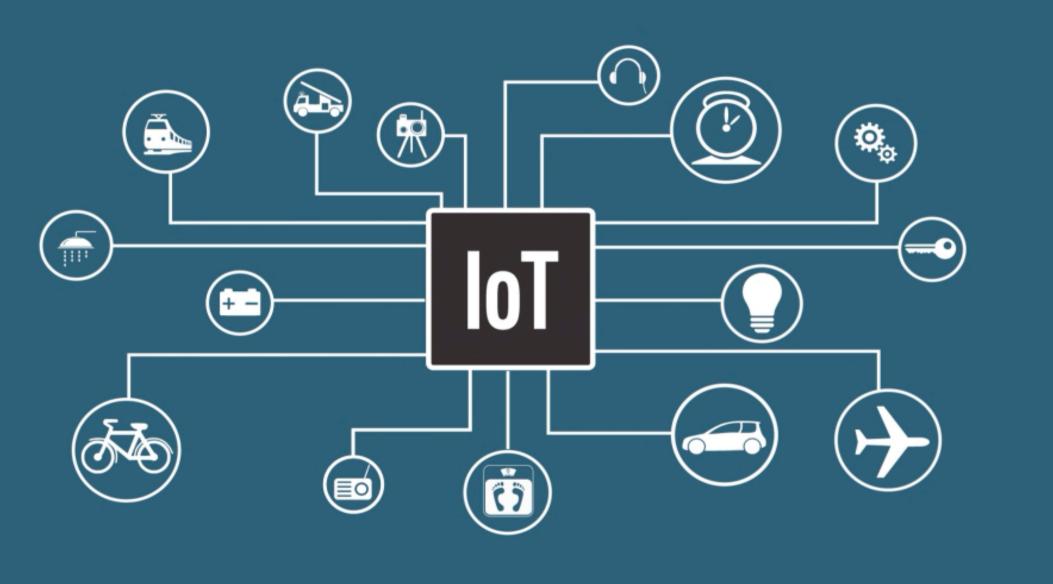
COST OF HUMAN DNA SEQUENCING



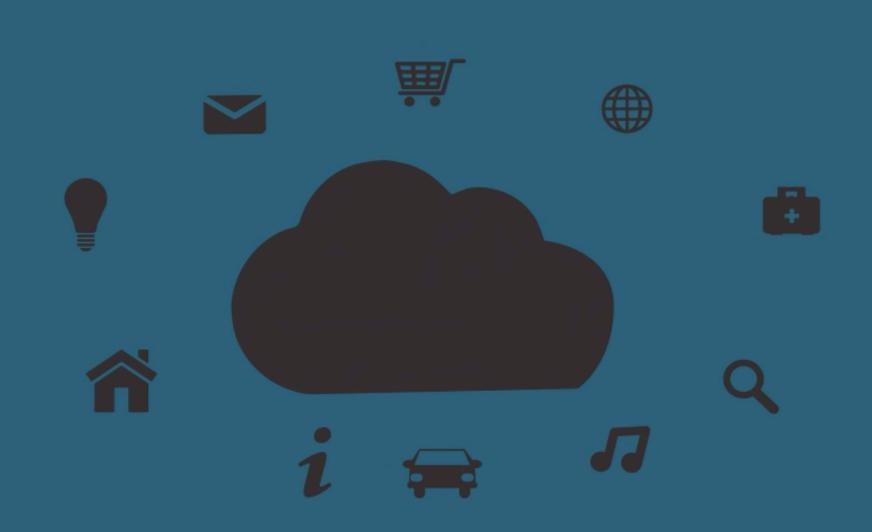
The 8 Game-Changers: Data | Cloud | 'Intelligent' Machines | Quantum Computing | The Internet of Things | Blockchain | 3D printing | AR/VR/MR

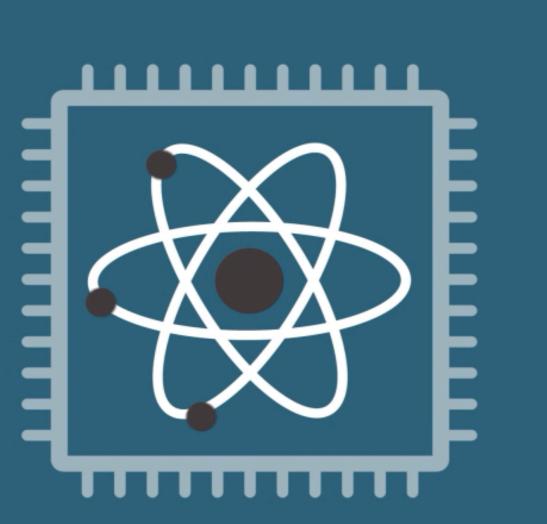














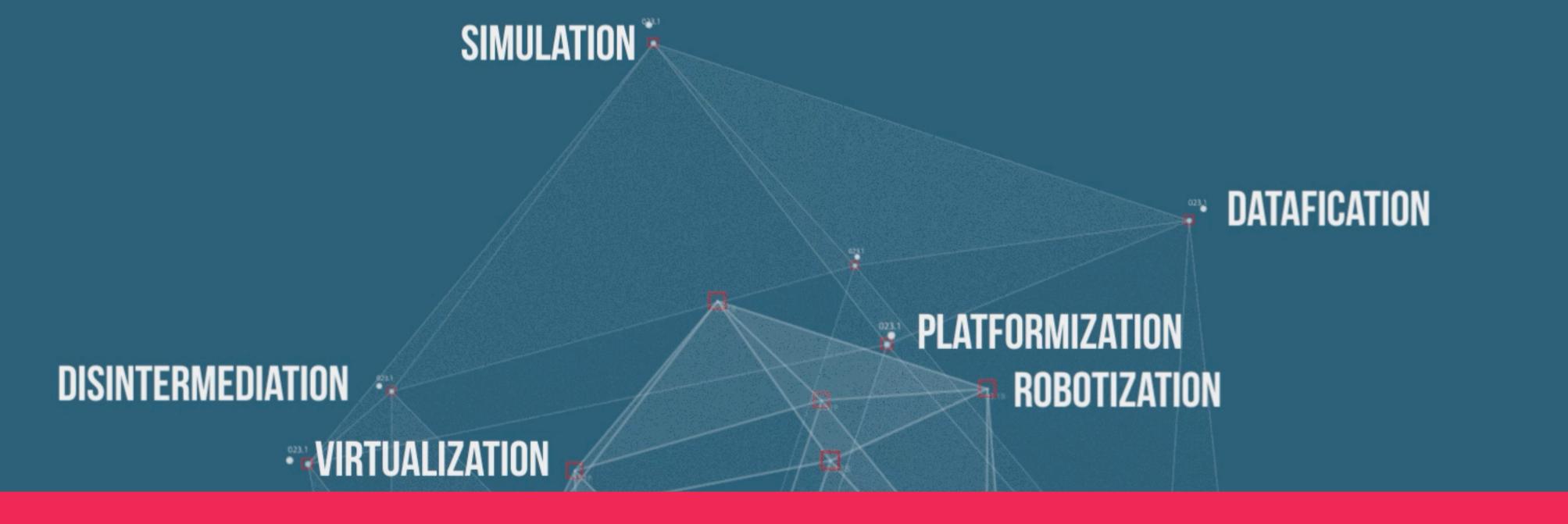


'Smart everything' is the low-hanging fruit in all industries – huge economic incentives but also vast societal changes: WISDOM REQUIRED



Do you know how to navigate these game-changers? What values and rules will guide you?





Look OUTSIDE of your current domain!



Facebook Plans to Become World's Biggest Central Bank?



Facebook is making its own digital currency and could become the largest bank in the world. Here's why...



"Facebook is looking at pegging the value of its coin to a basket of different foreign currencies...held in Facebook bank accounts."



Create

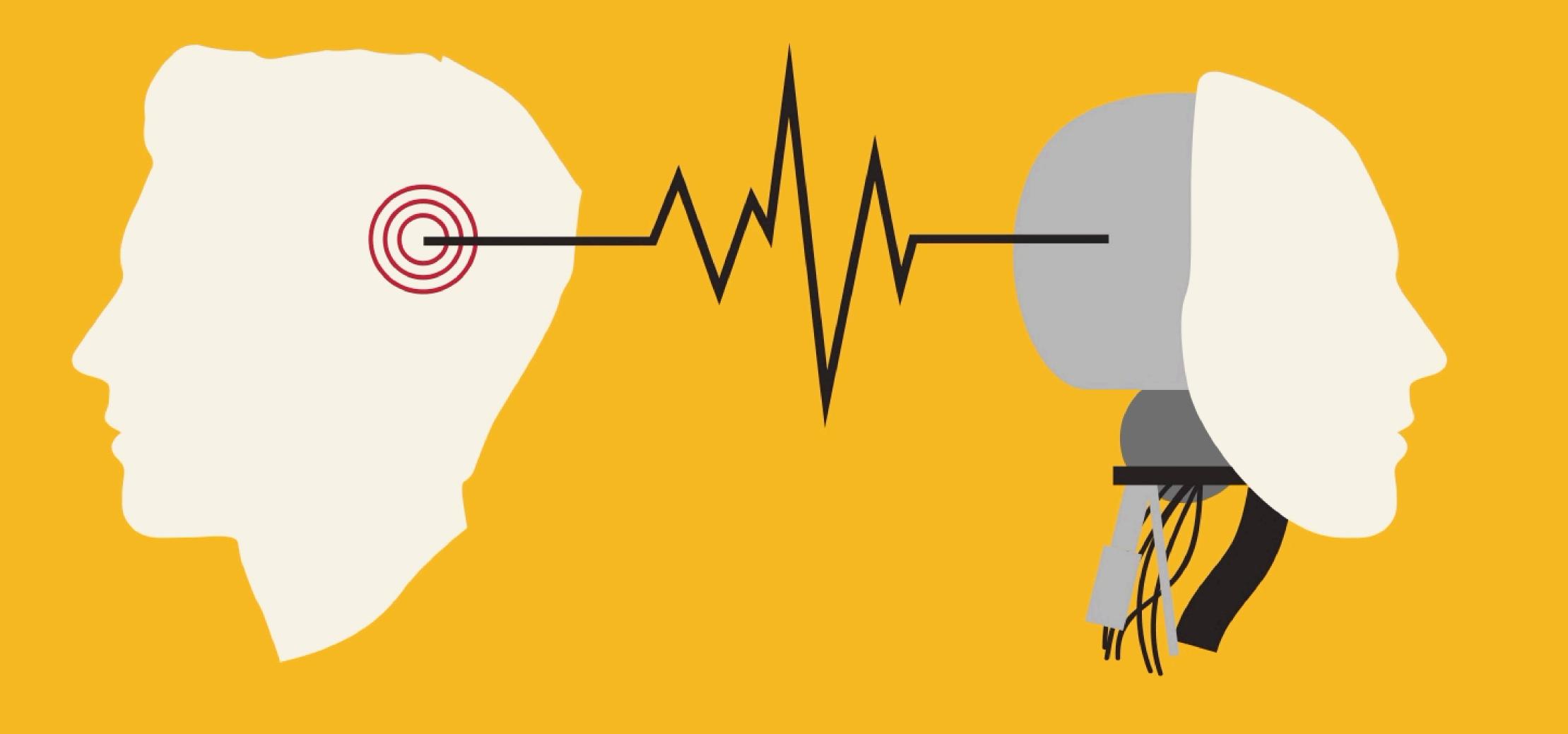
Observe

The Future Mindset

Imagine

Understand Gêrd

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



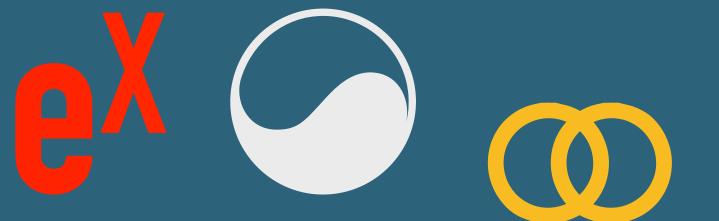


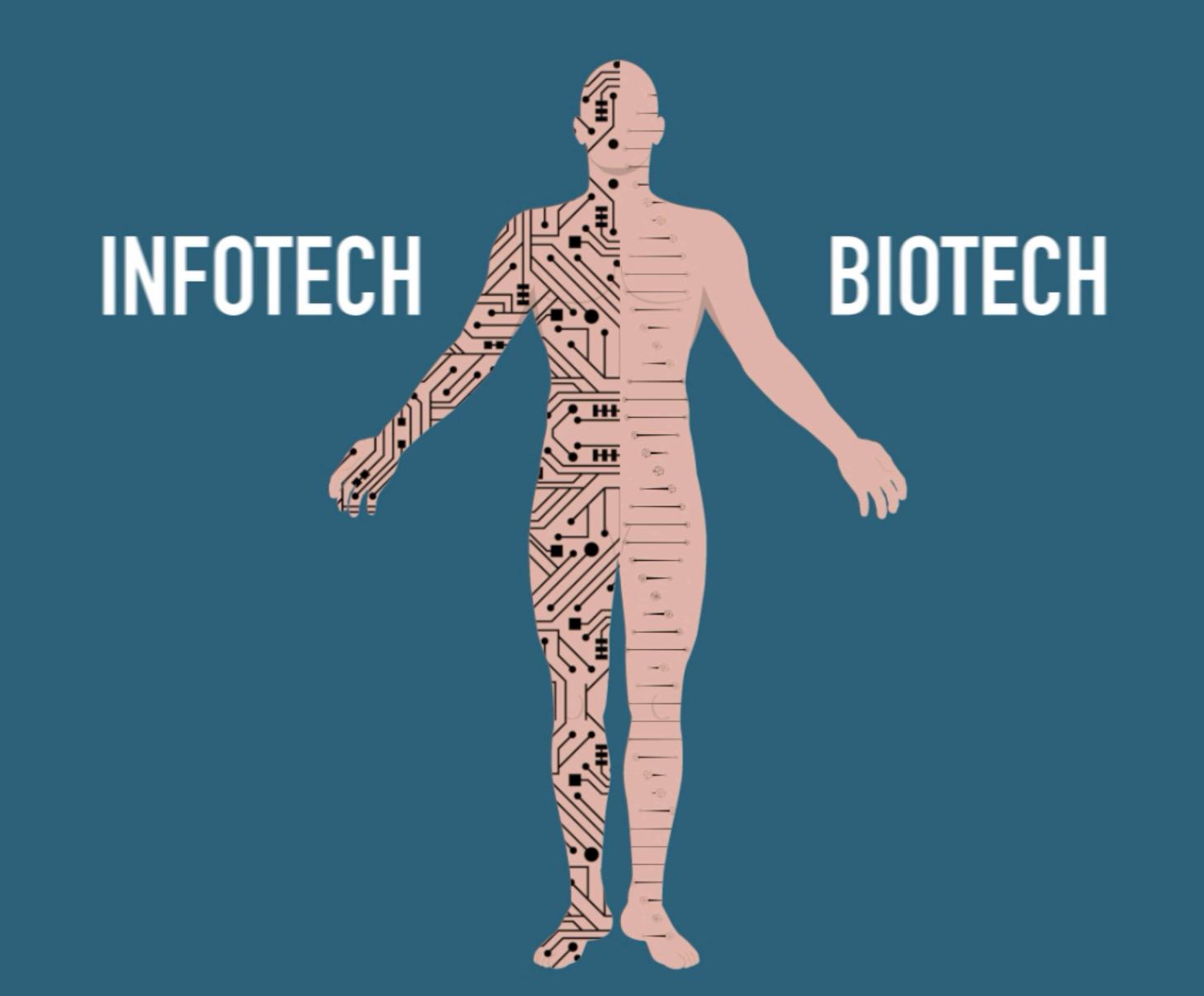
1 2 4 8 16 32 64 128 2565 12

Exponential

Combinatorial

Convergent





Exponential

Combinatorial

Convergent











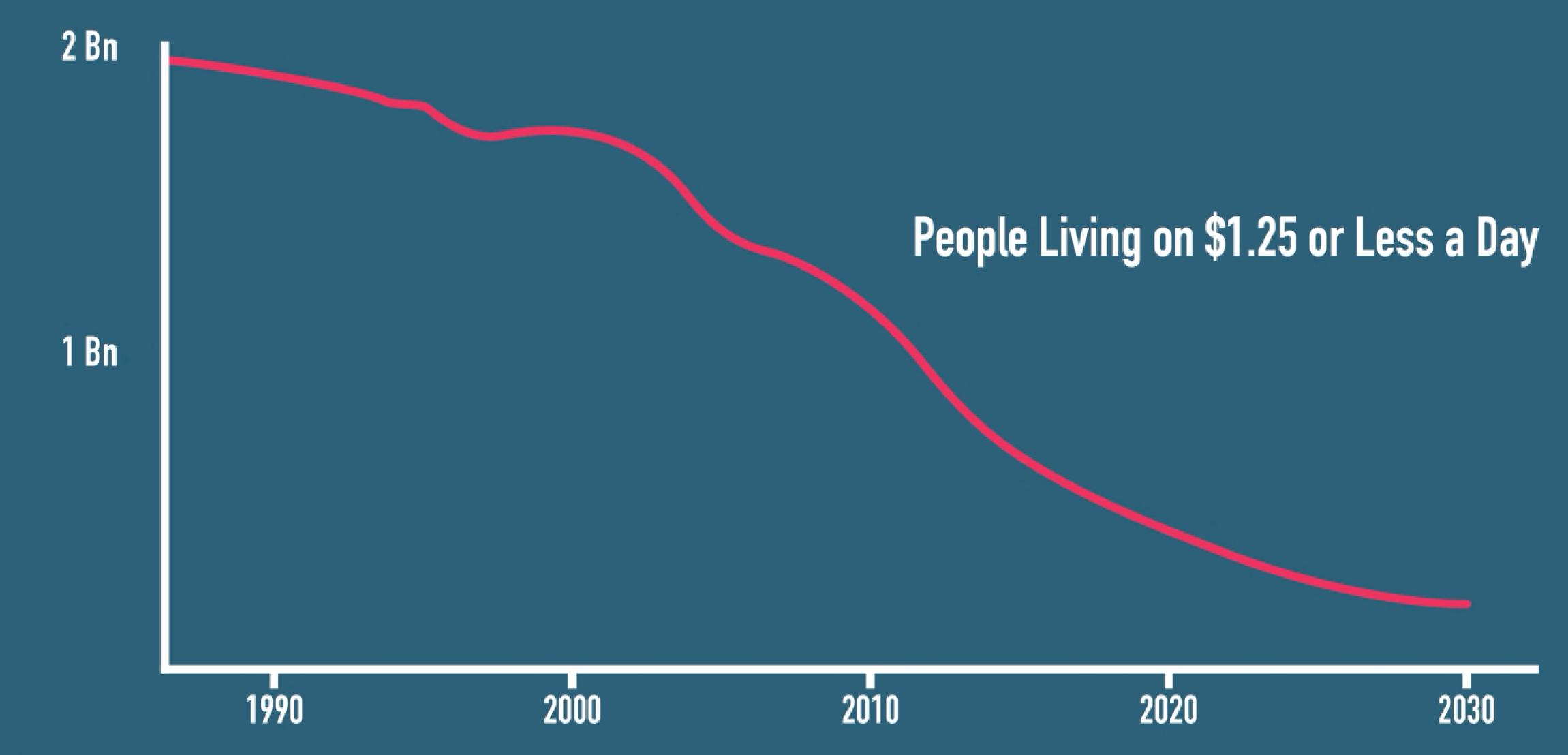






THE DECLINE OF POVERTY

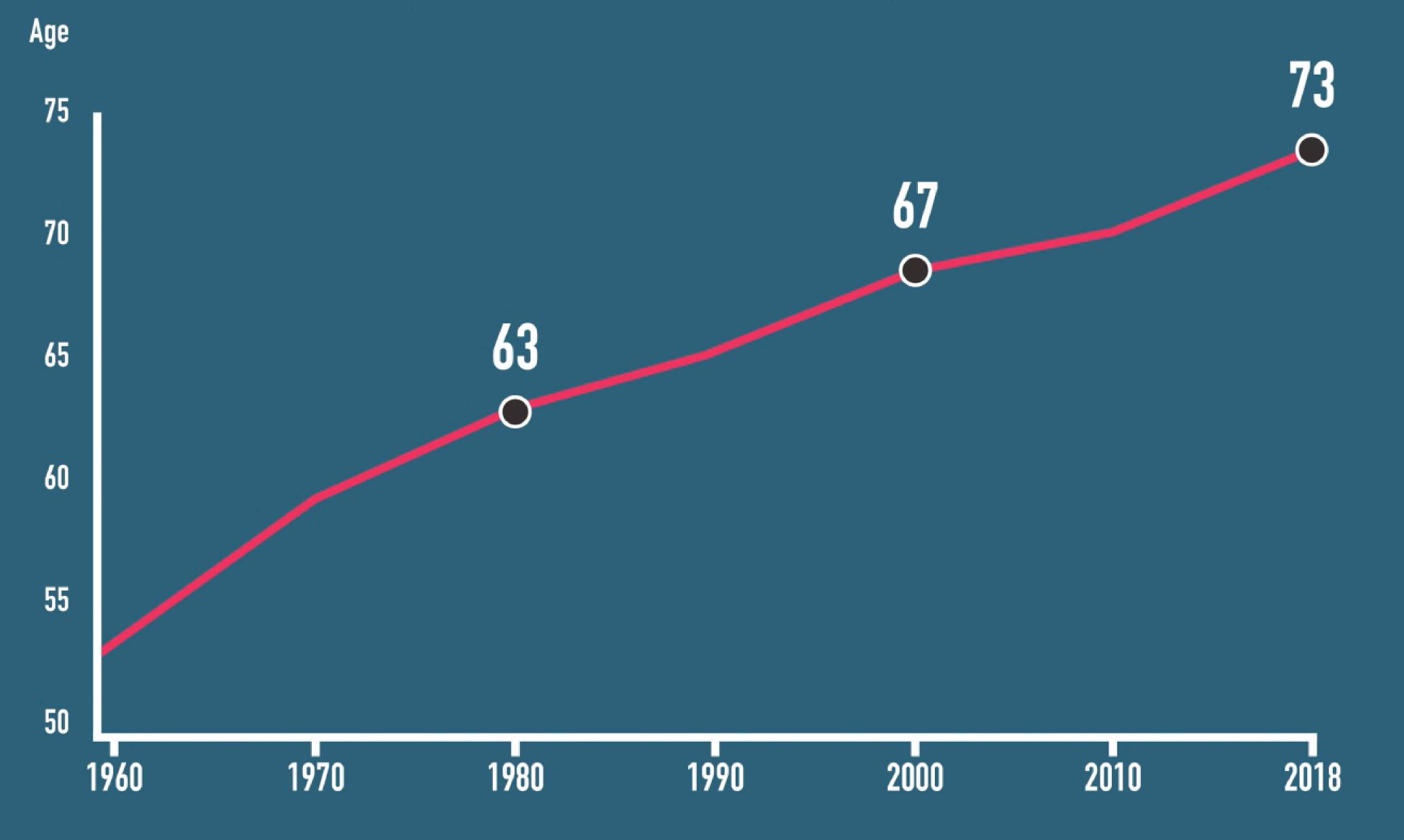
The future is better than We think!





The future is better than We think

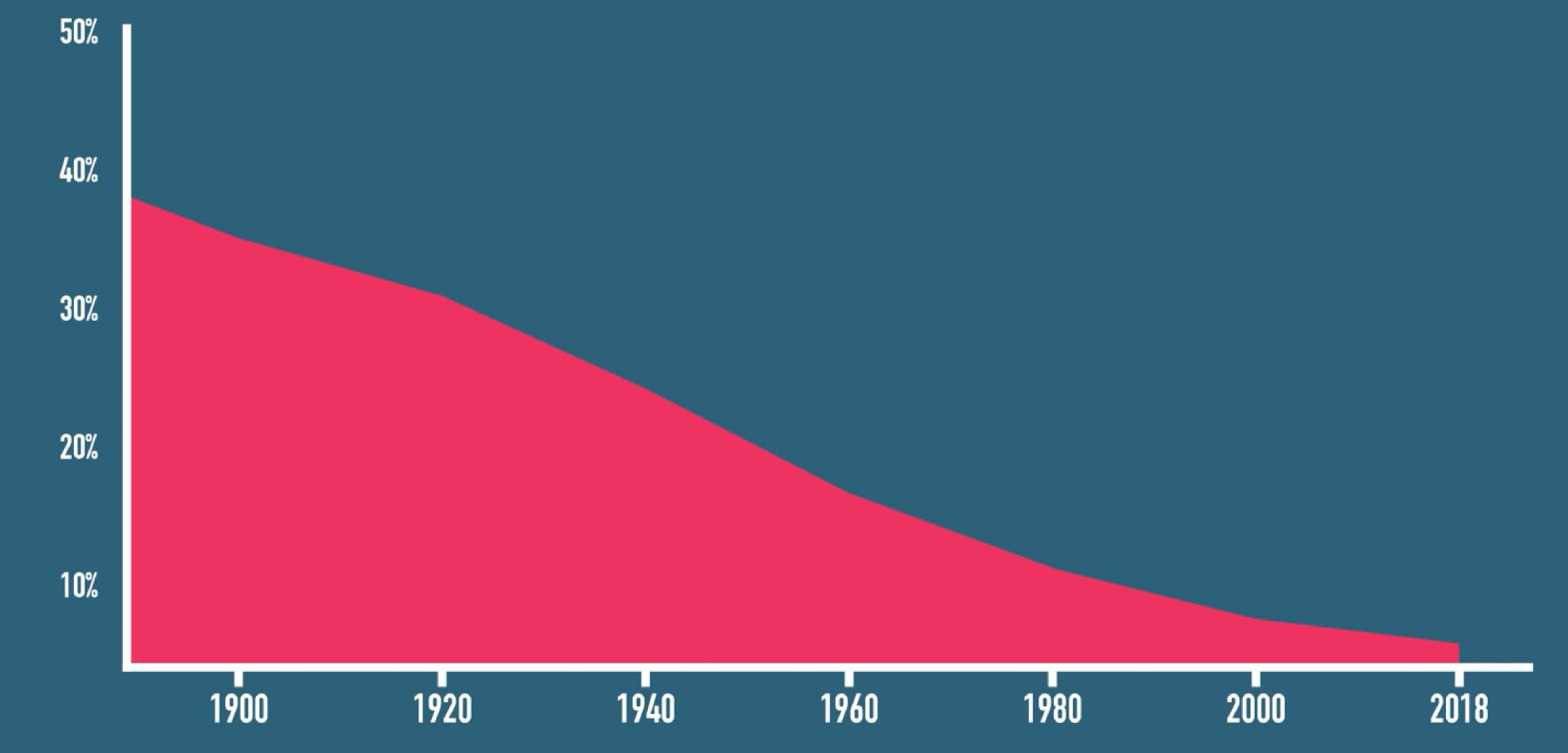
LIFE EXPECTANCY AT BIRTH, GLOBALLY





GLOBAL CHILD MORTALITY

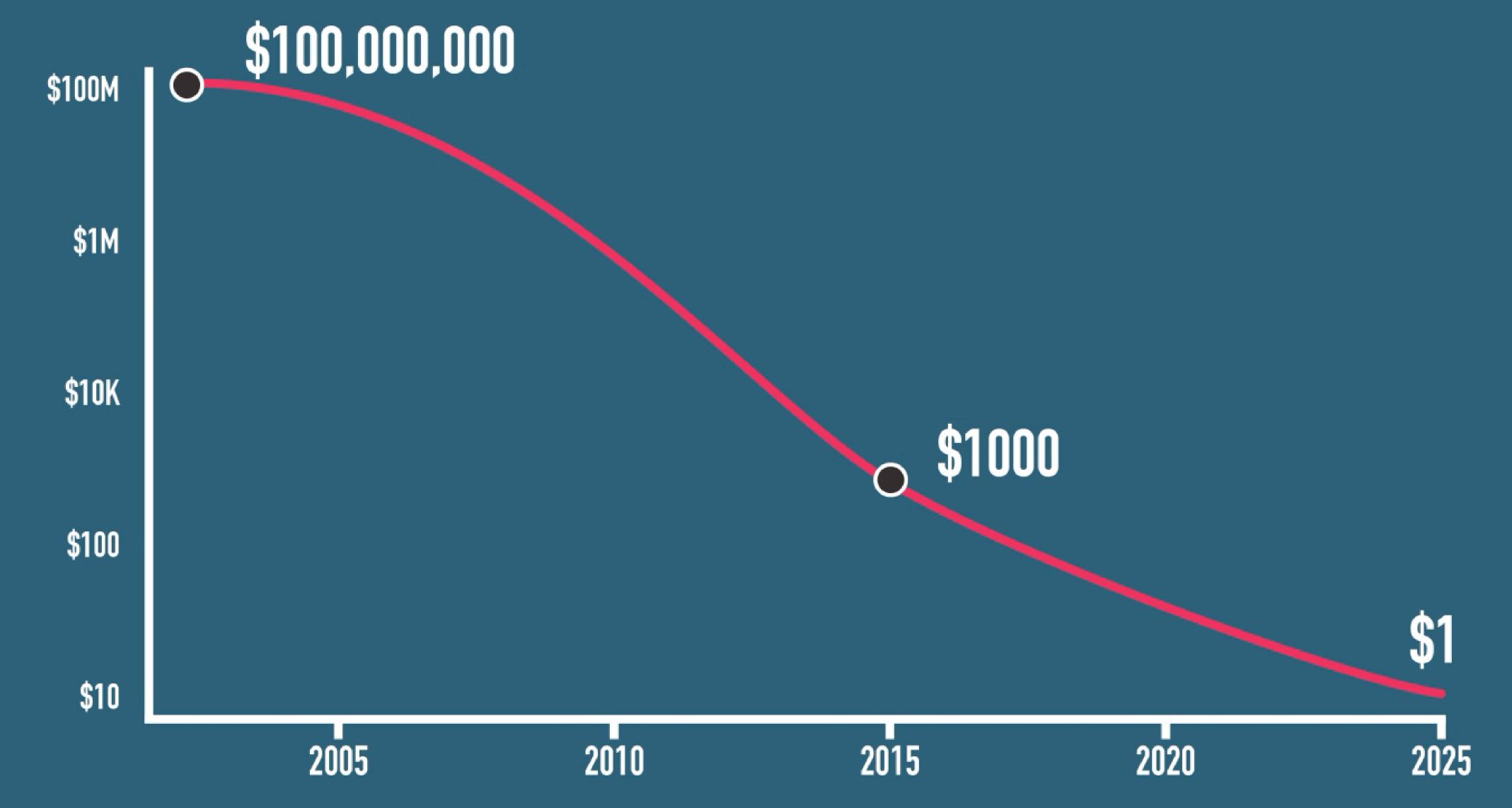
The future is better than We think





The future is better than Wether

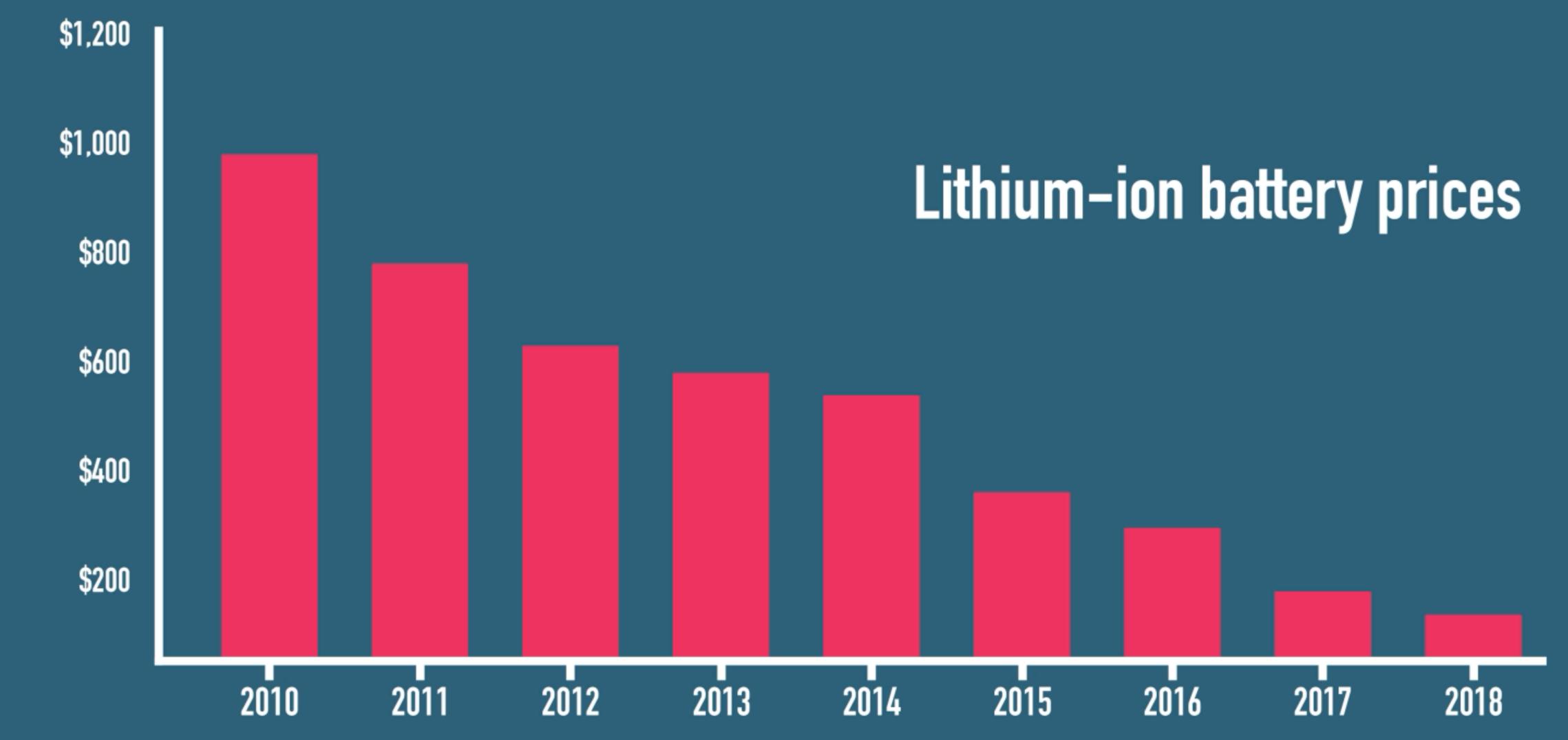
THE DECLINING COST OF SOLAR PANELS



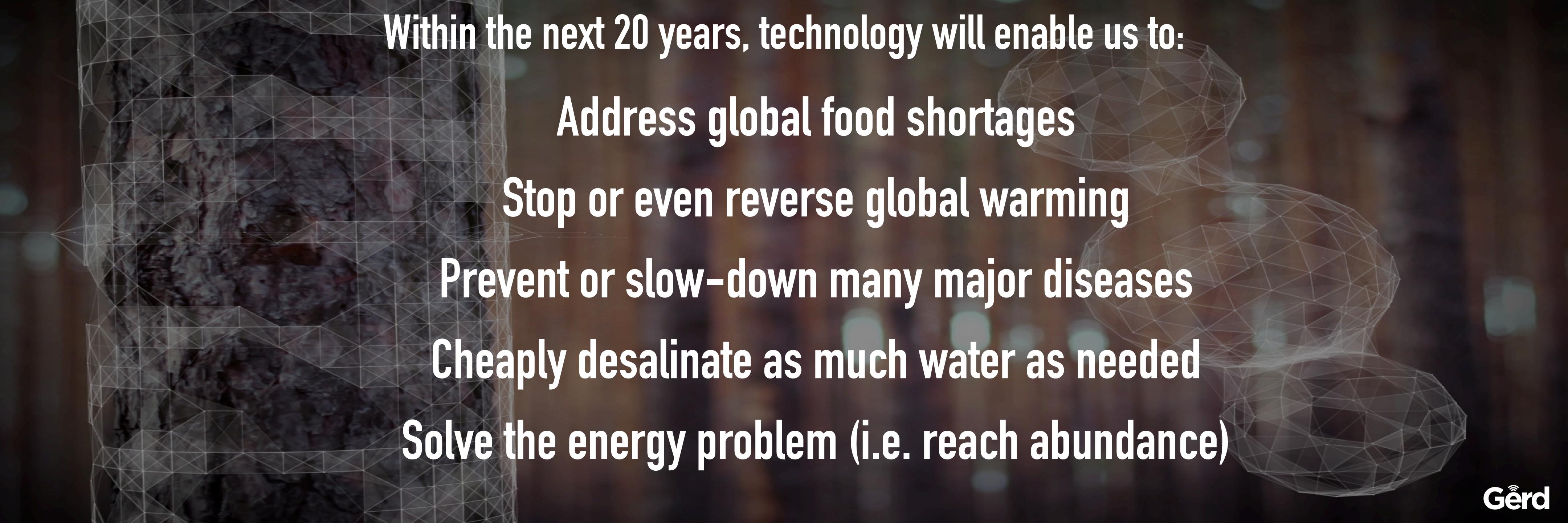


THE DECLINING COST OF BATTERIES

ne future s better than We think



Source: Bloomberg Gerd

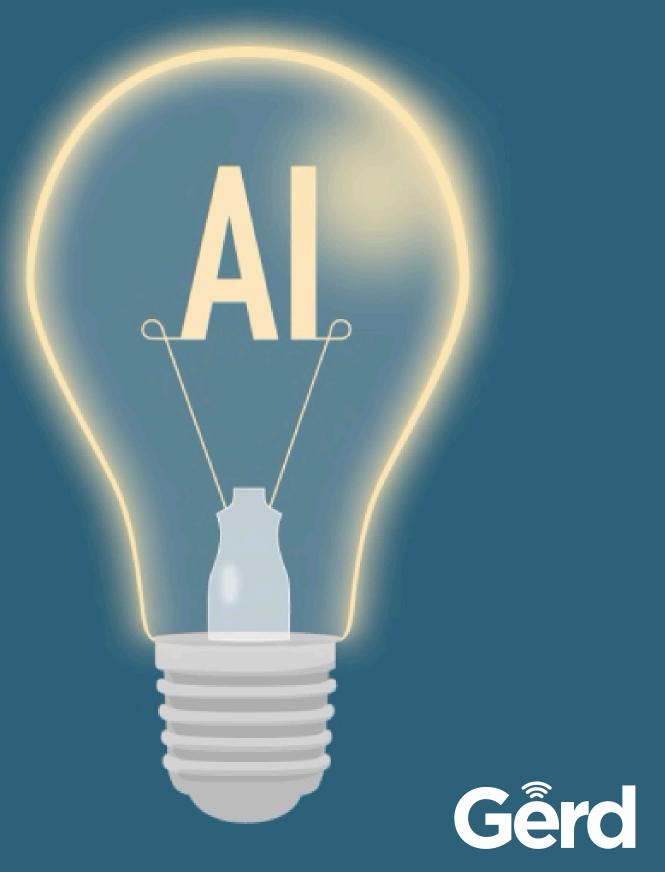






DATA IS THE NEW OIL AI IS THE NEW ELECTRICITY







RANK	COMPANY	REGION	CURRENT MARKET VALUE (\$B)
1	Apple	USA	\$964
2	Amazon	USA	783
3	Microsoft	USA	753
4	Google / Alphabet	USA	739
5	Facebook	USA	538
6	Alibaba	China	509
7	Tencent	China	483
8	Netflix	USA	152
9	Ant Financial	China	150
10	eBay + Paypal*	USA	133
11	Booking Holdings	USA	100
12	Salesforce.com	USA	94
13	Baidu	China	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			\$5,788







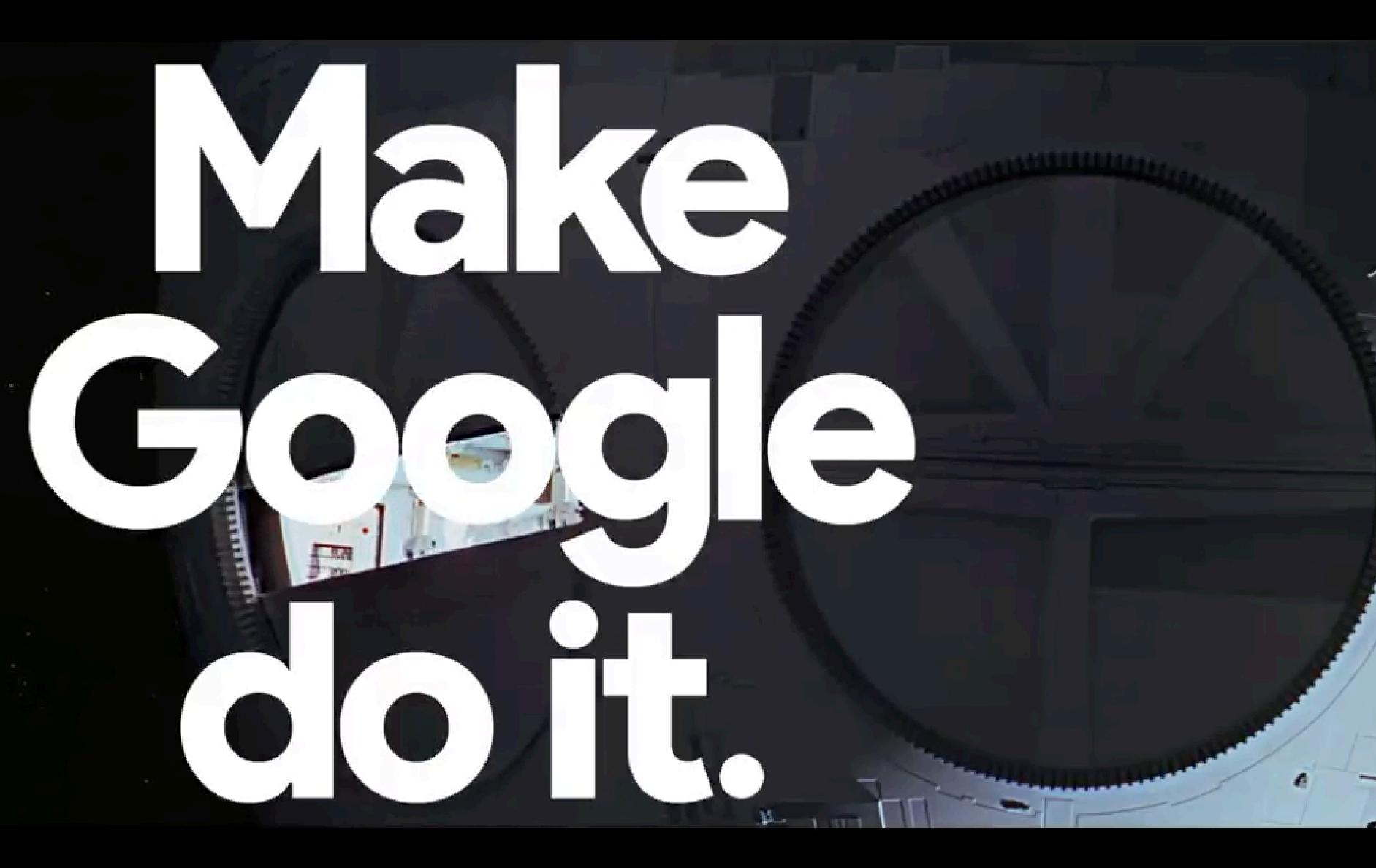


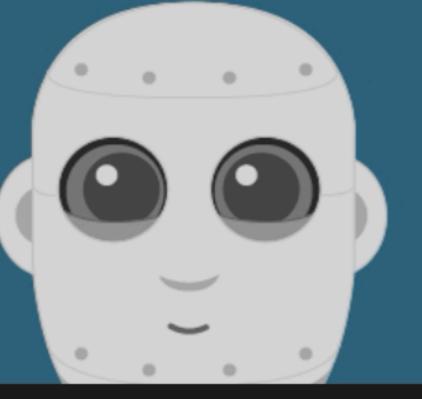




Gêrd

Too much of a good thing can be a very bad thing who will define the right balance?





Too much of a good thing can be a very bad thing who will define the right balance?

Gerd

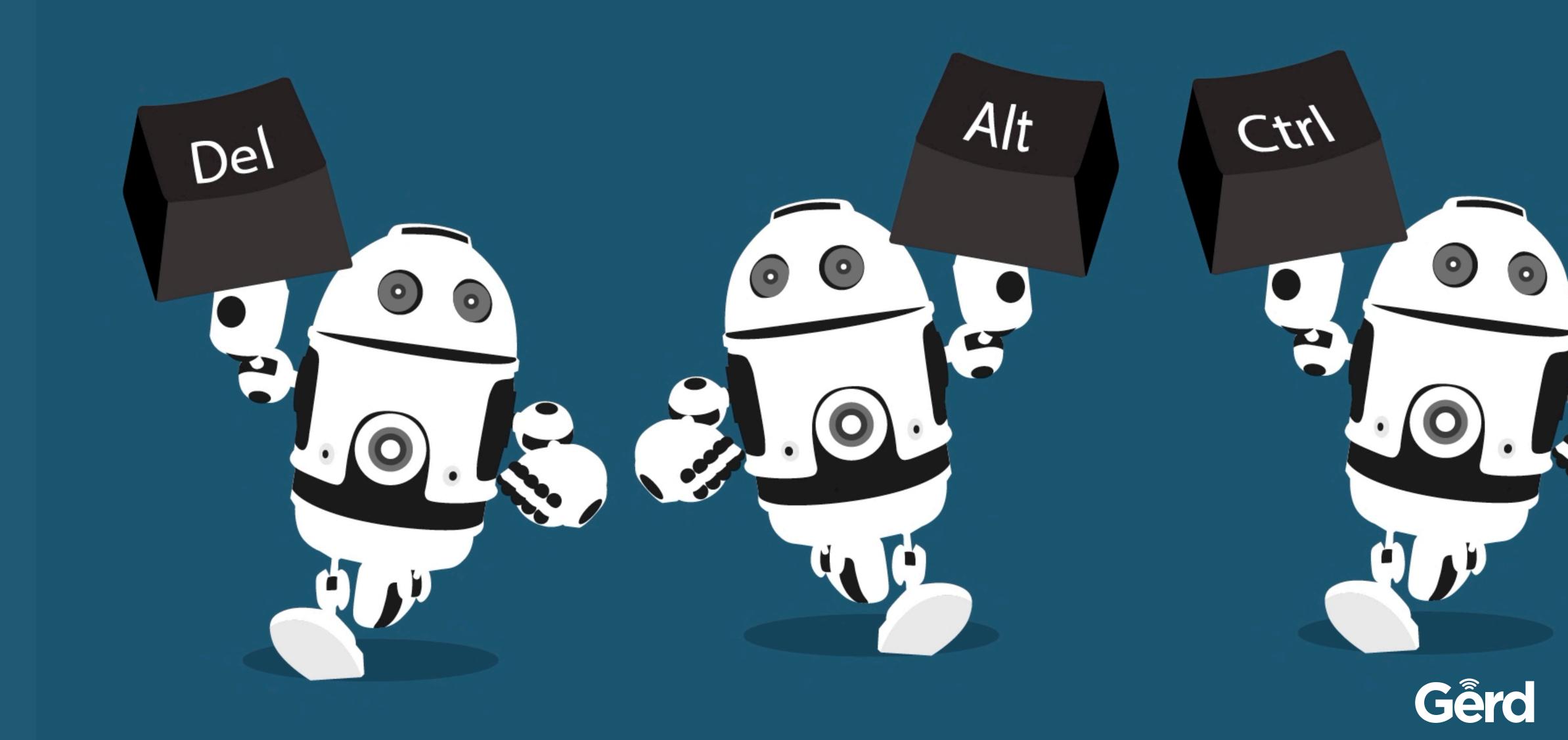


Today, the biggest danger is not that machines will take over but that we might become too much



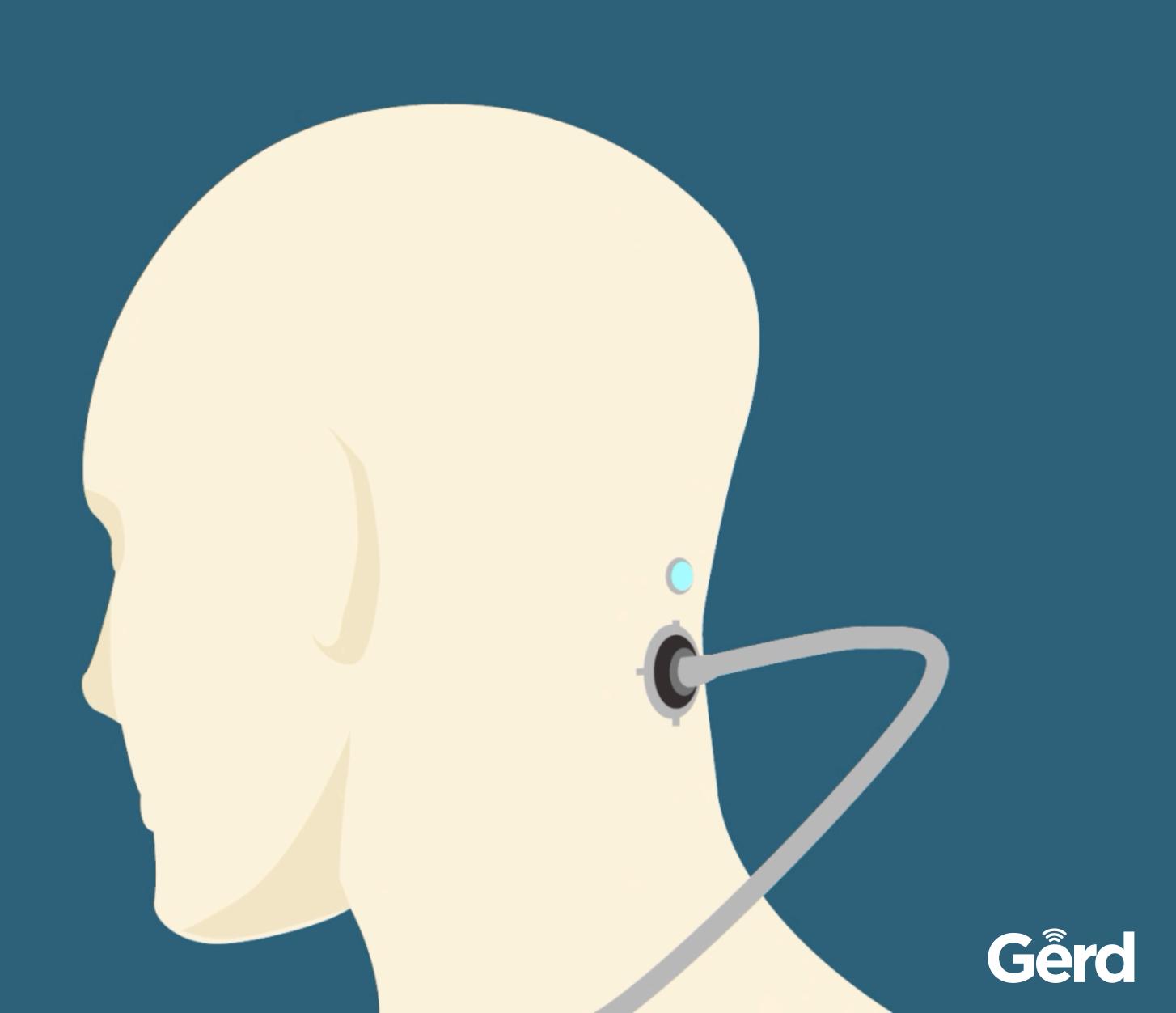
Technology is not WHAT we seek but HOW we seek!





"Technology can do great things. But it does not WANT to do great things. It doesn't want anything" (Tim Cook, Apple)





We must urgently address the externalities and the unintended consequences of exponential scientific and technological progress.

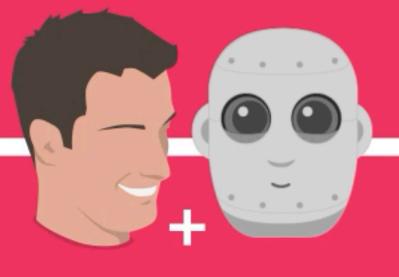
We need a stronger focus on ethics & values, new social contracts, renewed public debate, new corporate accountability, balanced regulation and global collaboration





ASSISTED INTELLIGENCE





AUGMENTED INTELLIGENCE



AUTOMATION

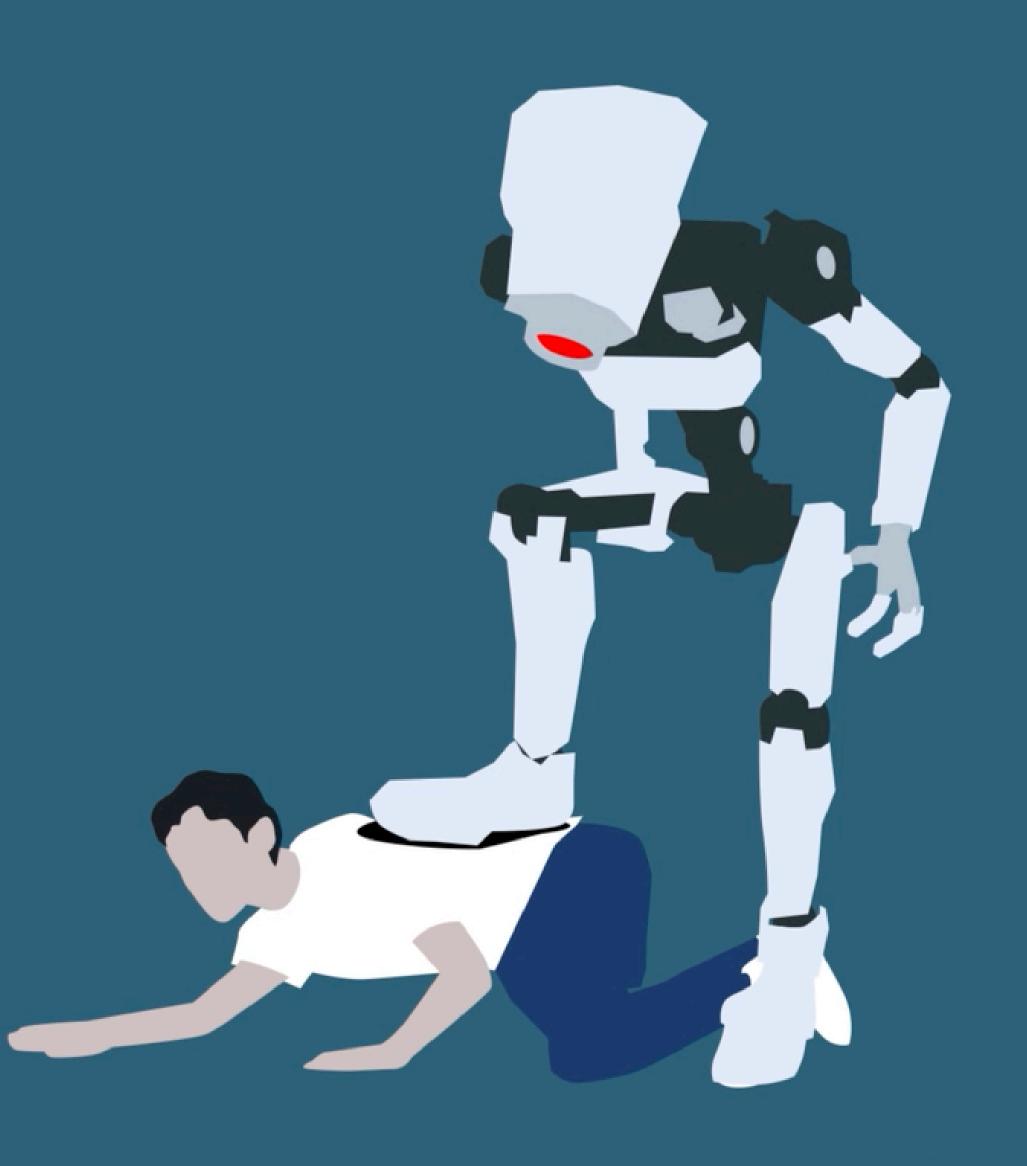


AUTONOMOUS INTELLIGENCE









TEAM ROBOT



TEAM HUMAN

Gêrd





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

ed from Potter Stewart

TECHNOLOGY HAS NO ETHICS



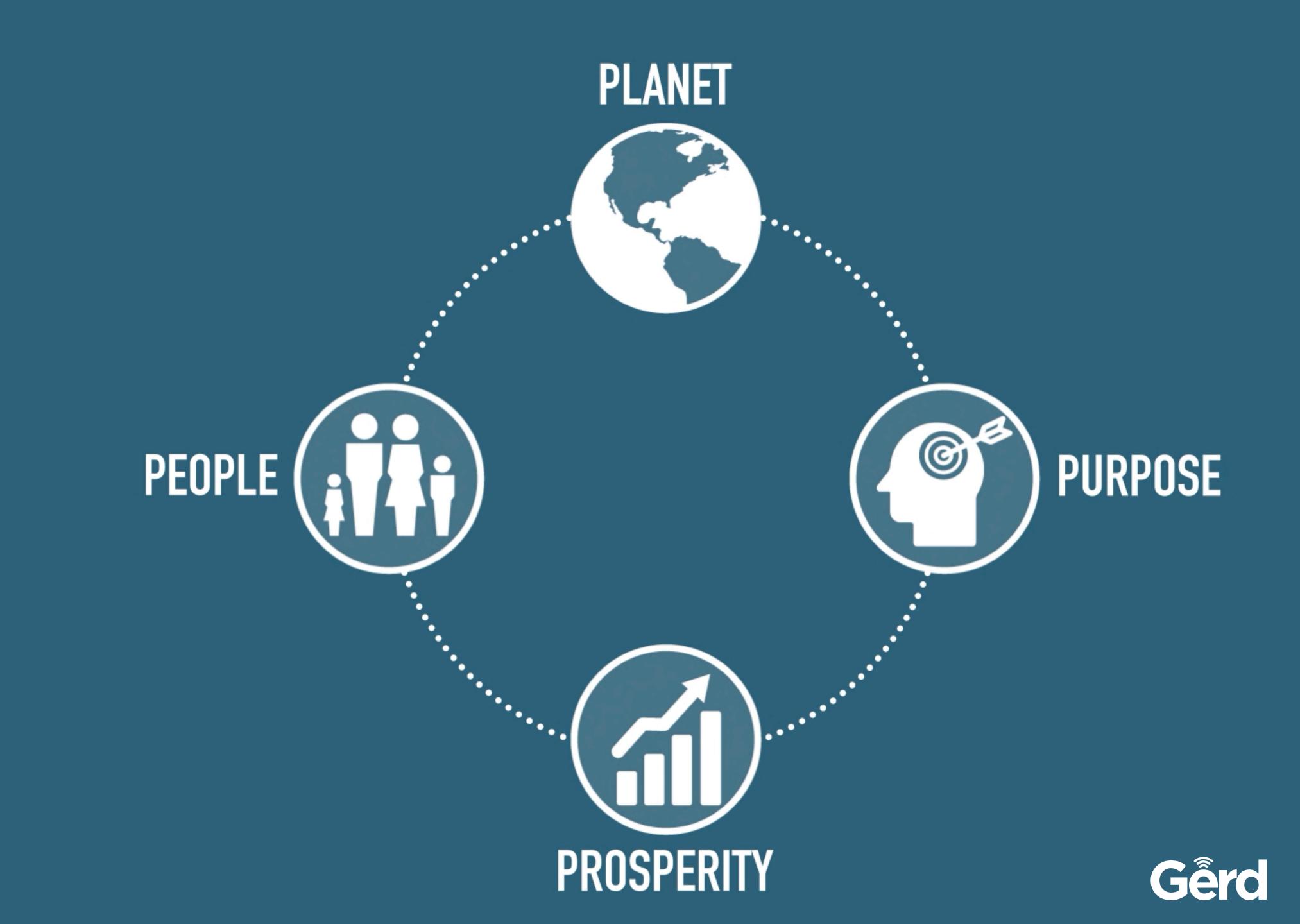
A new economic logic is evolving

EGO

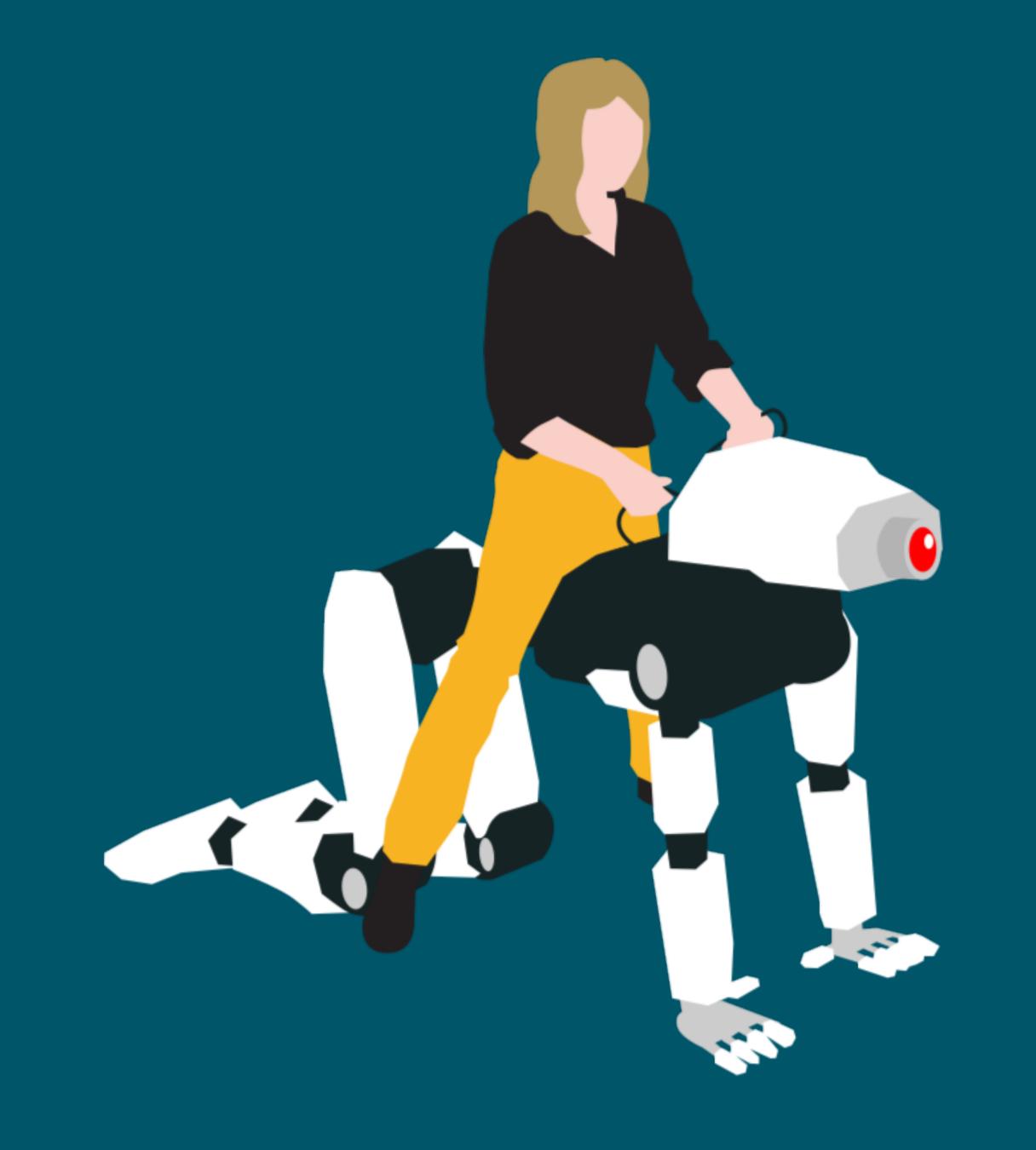
ECO



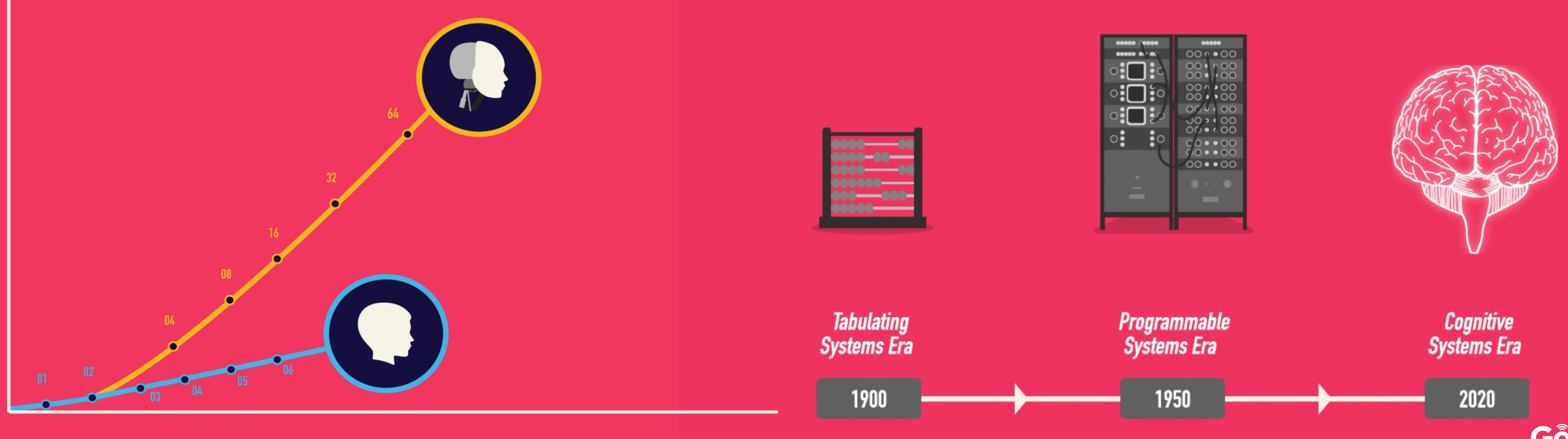








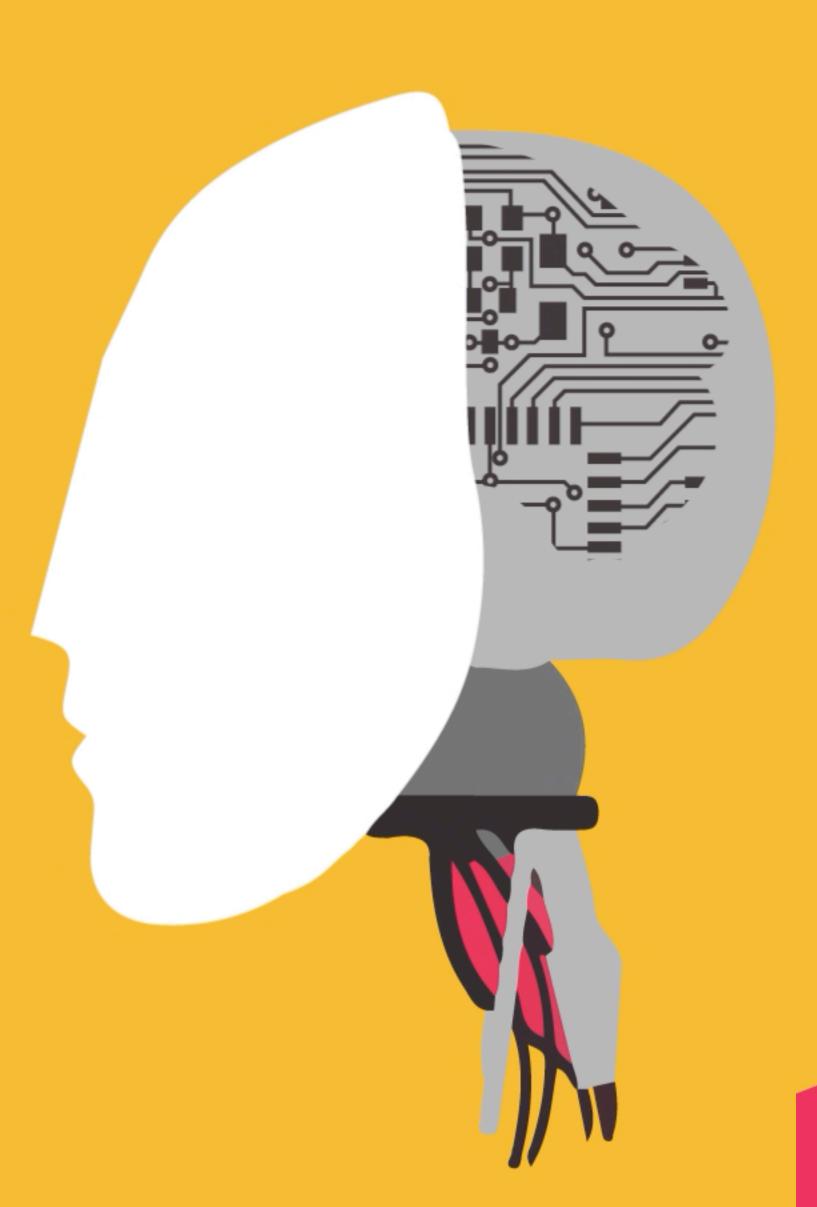
When HI meets AI, it's the end of 'business as usual' *

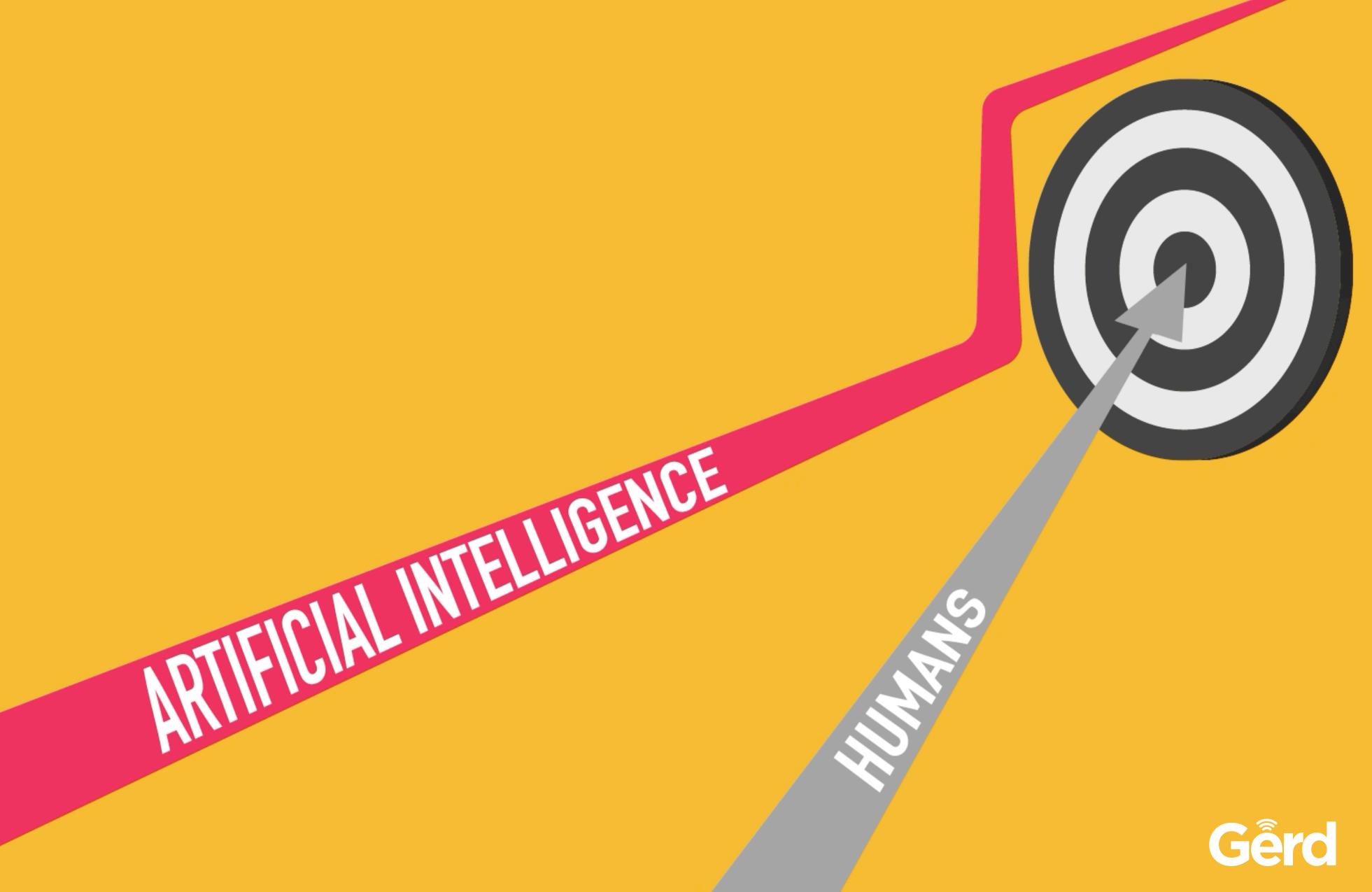


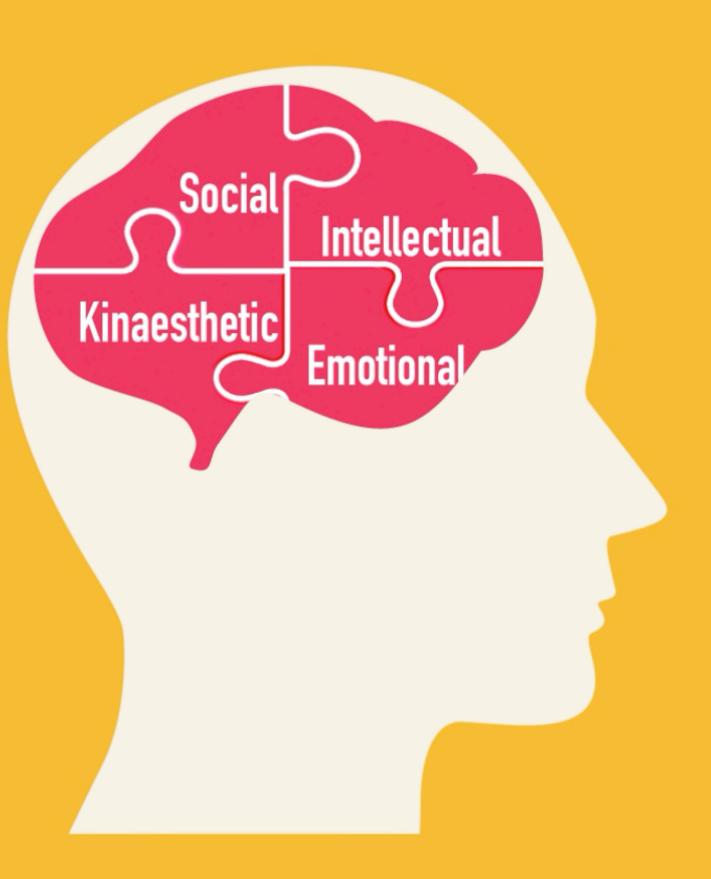
'Thinking Machines': Don't mistake a clear view with a short distance!

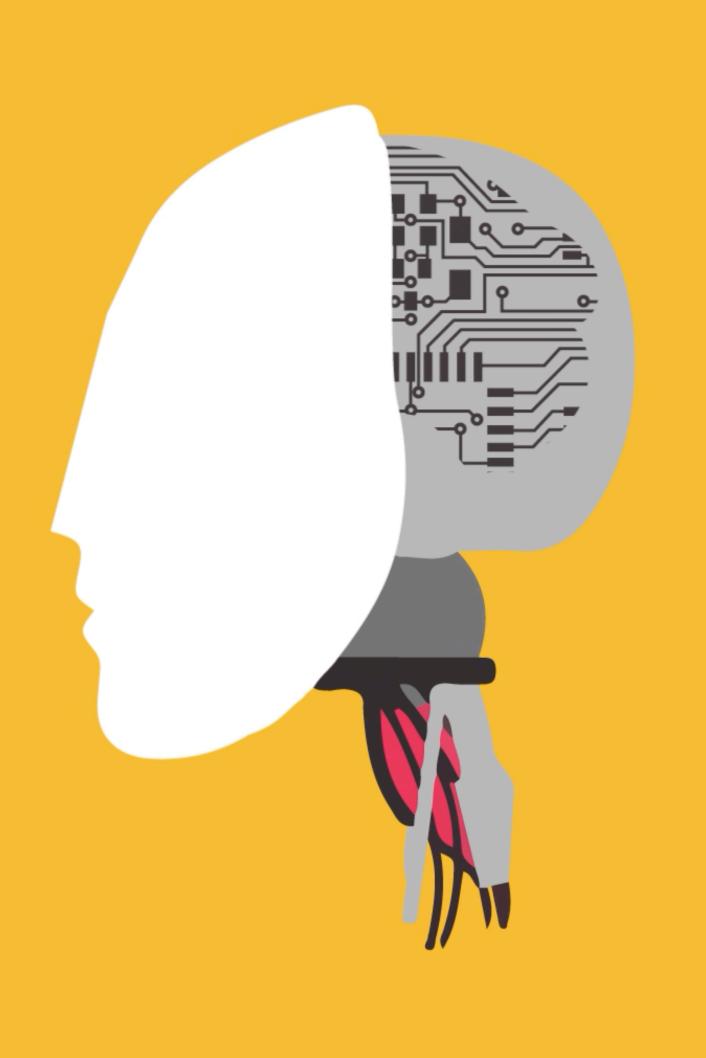
(riffing off Paul Saffo)

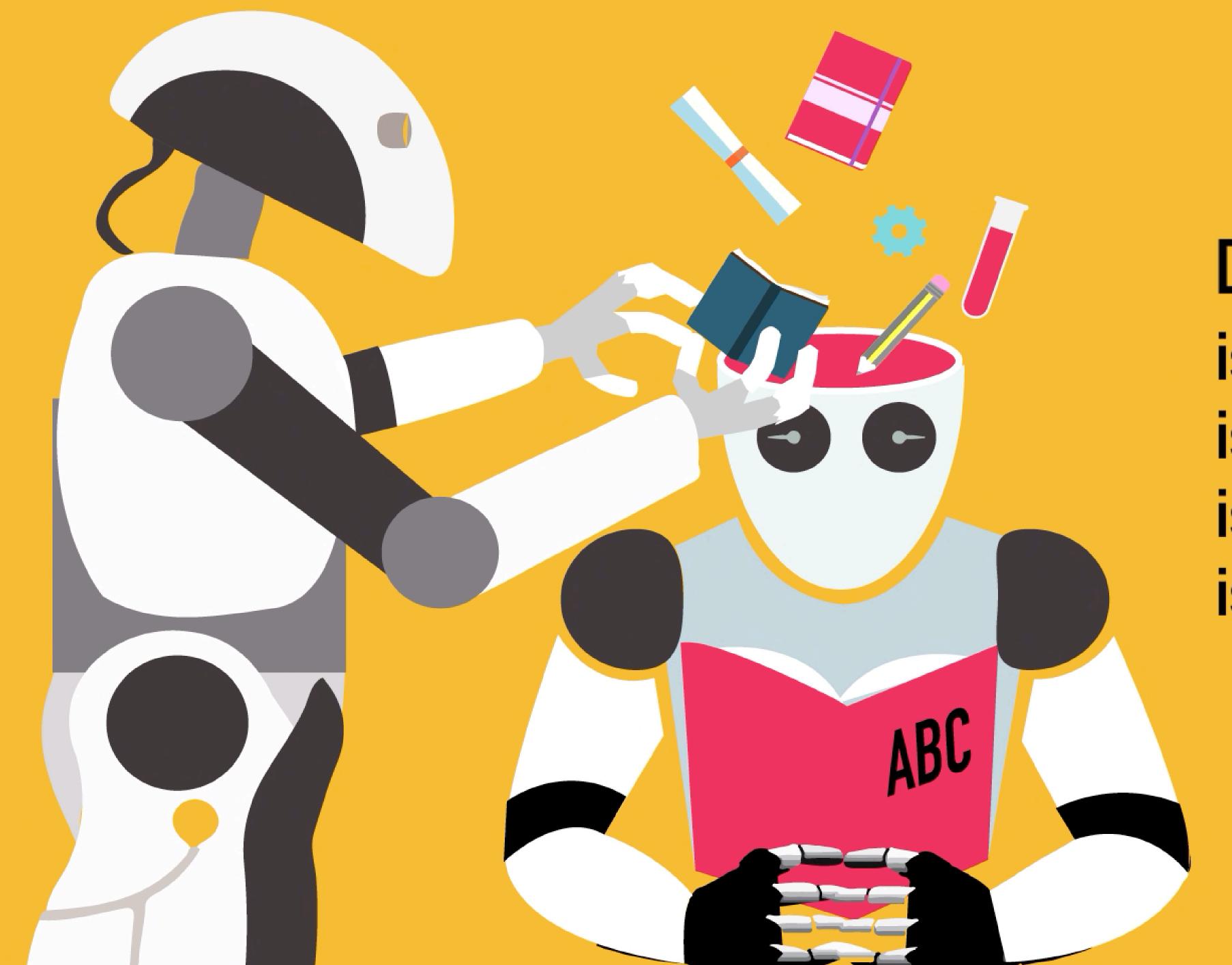












DATA AND INFORMATION

is not Knowledge*
is not Understanding
is not Wisdom
is not Purpose





The Future Of A.I.

Forecasted cumulative global artificial intelligence revenue 2016-2025, by use case (U.S. dollars)

Static image recognition, classification, and tagging	\$8,097.9m
Algorithmic trading strategy performance improvement	\$7,540.5m
Efficient, scalable processing of patient data	\$7,366.4m
Predictive maintenance	\$4,680.3m
Object identification, detection, classification, tracking*	\$4,201.0m
Text query of images	\$3,714.1m
Automated geophysical feature detection	\$3,655.5m
Content distribution on social media	\$3,566.6m
Object detection and classification - avoidance, navigation	\$3,169.8m
Prevention against cybersecurity threats	\$2,472.6m



^{*} From geospatial images

@StatistaCharts Source: Tractica



In world that's powered by technology we can (and must) become MORE human not less!



Machines are for answers - Humans are for questions. Efficiency is for robots!







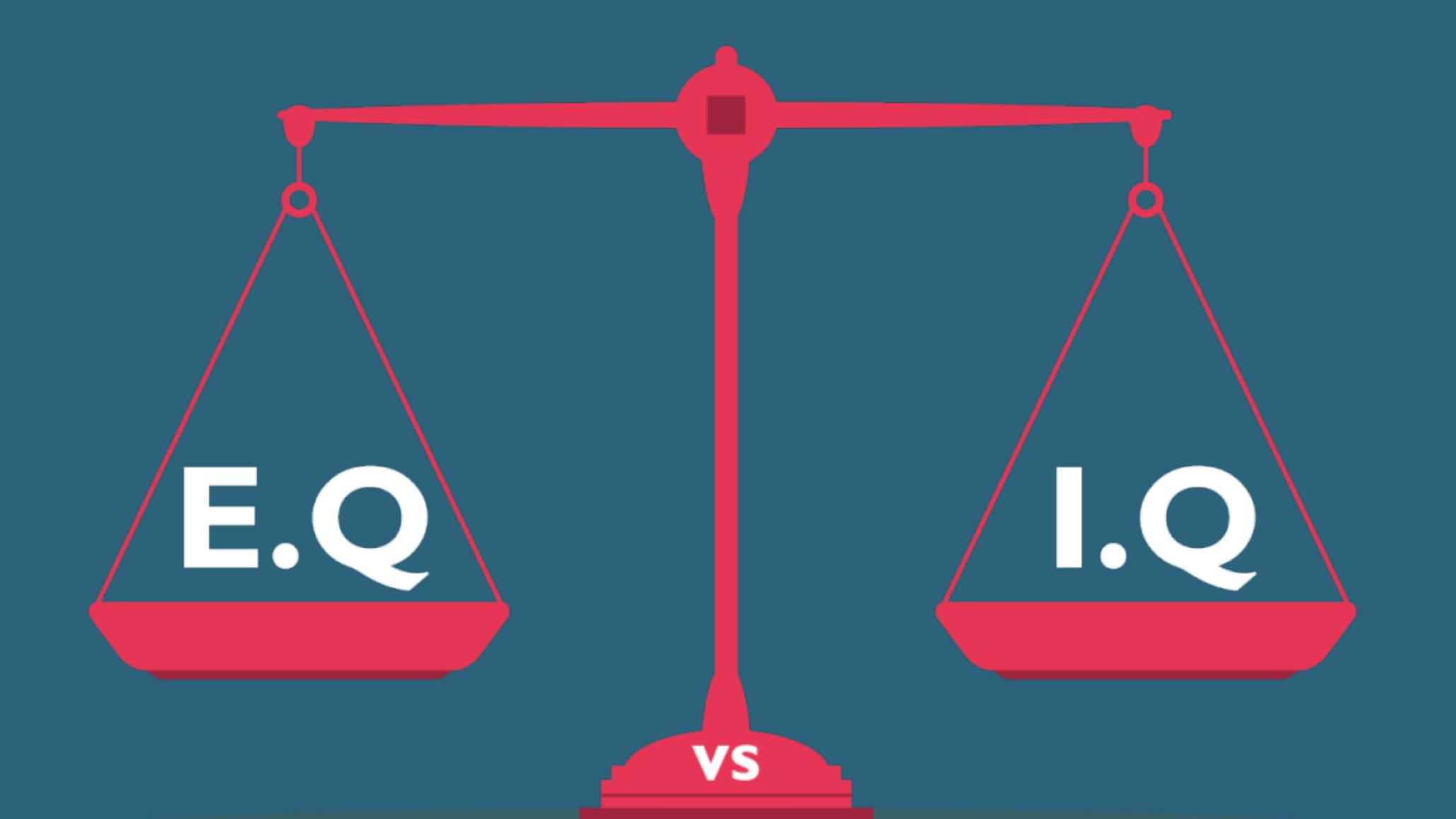


2020

- 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



Lumanity Ethics Creativity magination



Science Technology Engineering Mathematics

The future: Awesome humans on top of amazing technology!



