

Gerd Leonhard

Author of Technology vs. Humanity

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28.56

techvshuman.com

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VELEN. VELEN.

with a little





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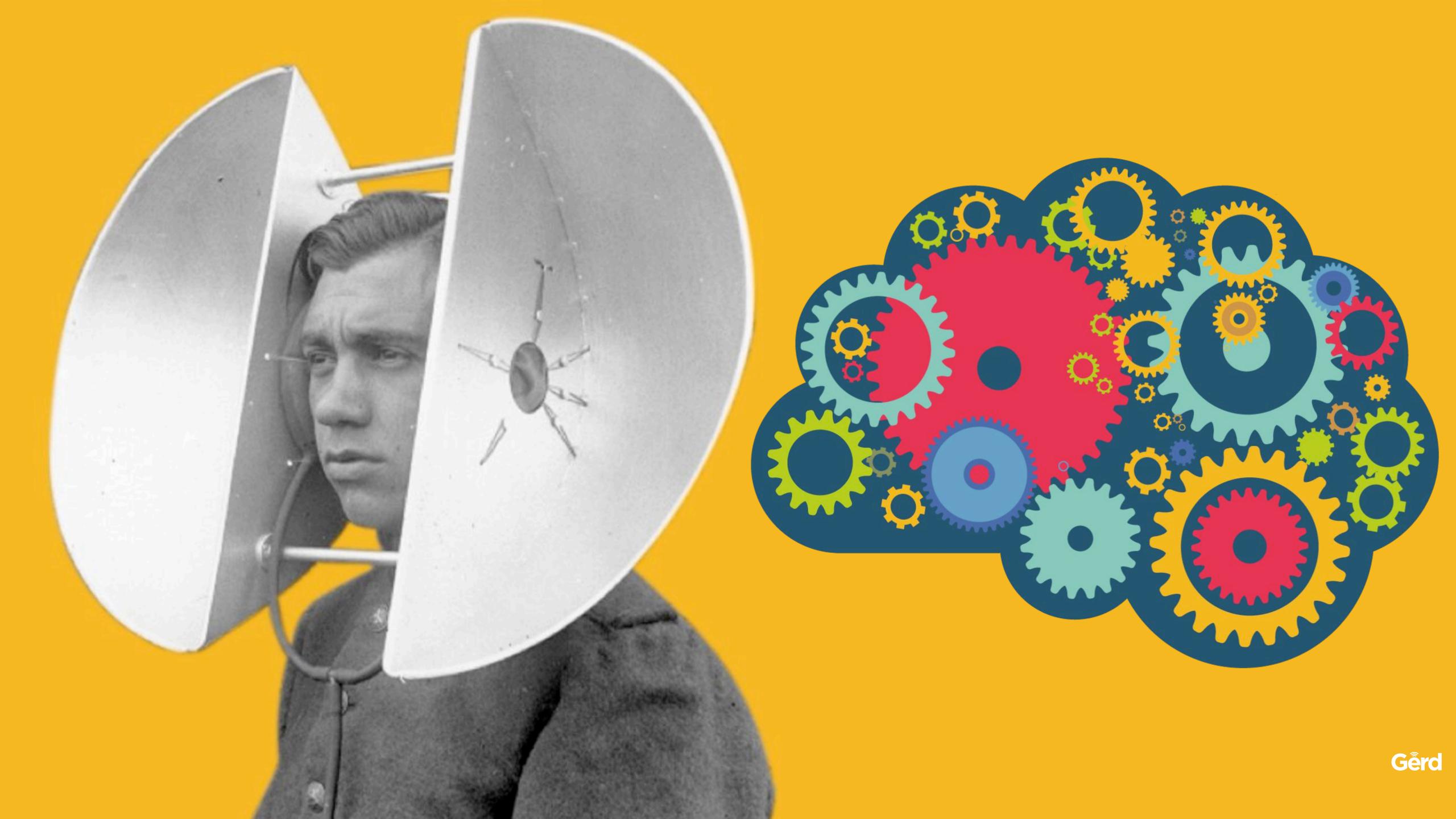
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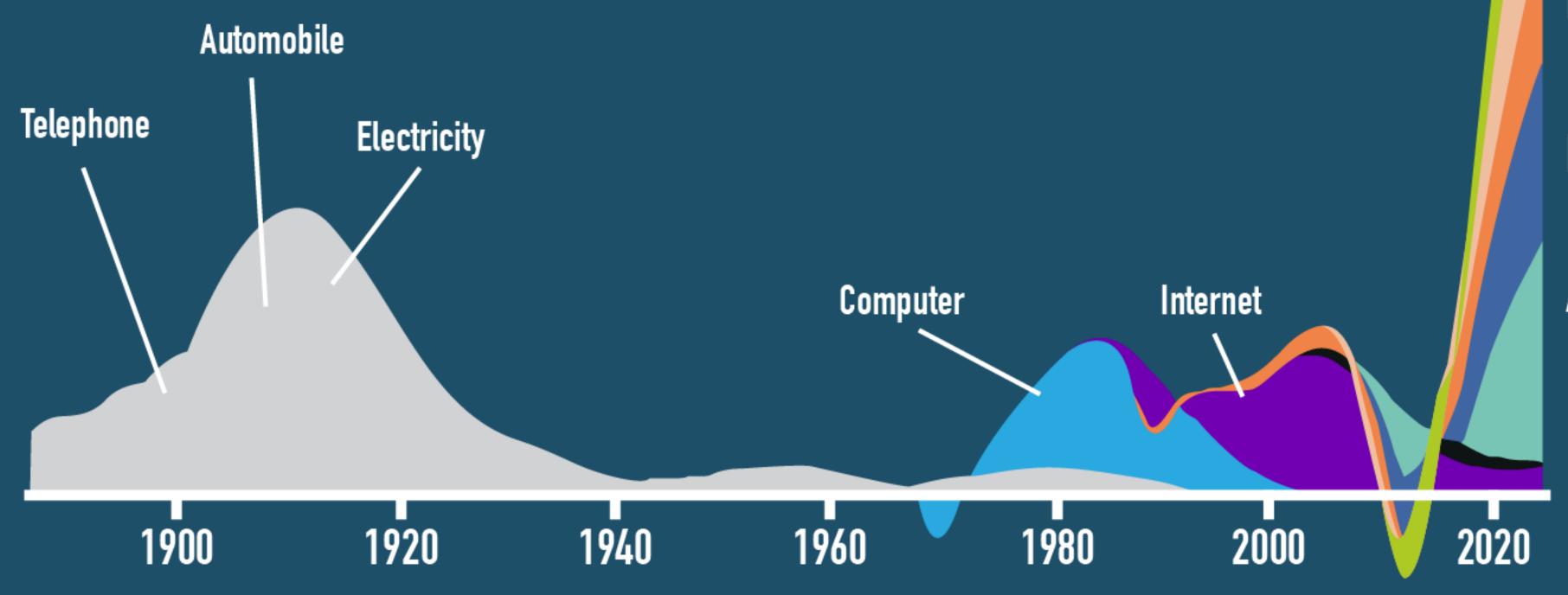
Our world is going to change more in the next 20 years than in the previous 300 years







THE BIGGEST TECHNOLOGICAL TRANSFORMATION IN HUMAN HISTORY



Blockchain Technology

Genome Sequencing

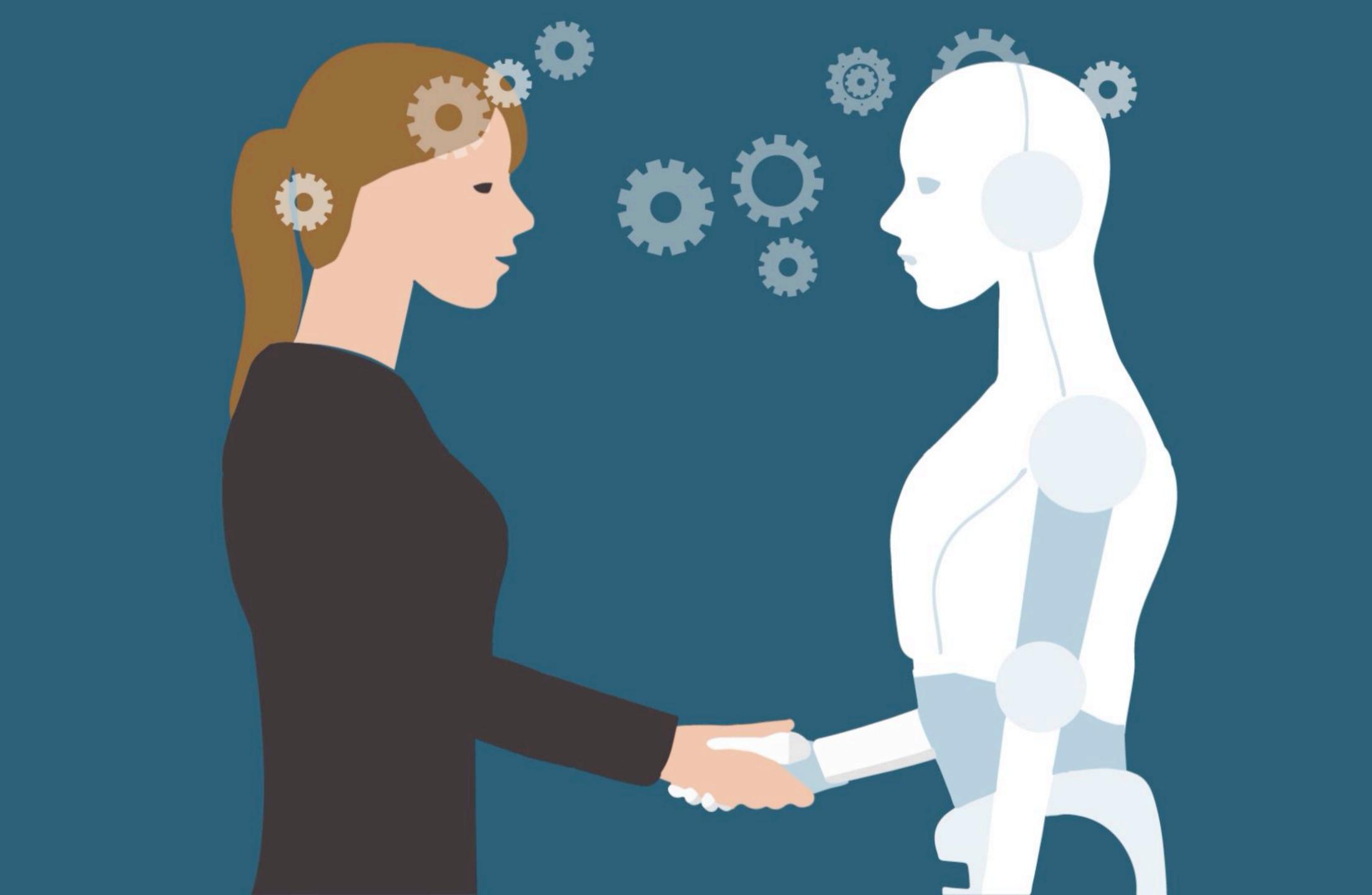
Robotics

Energy Storage

Artificial Intelligence



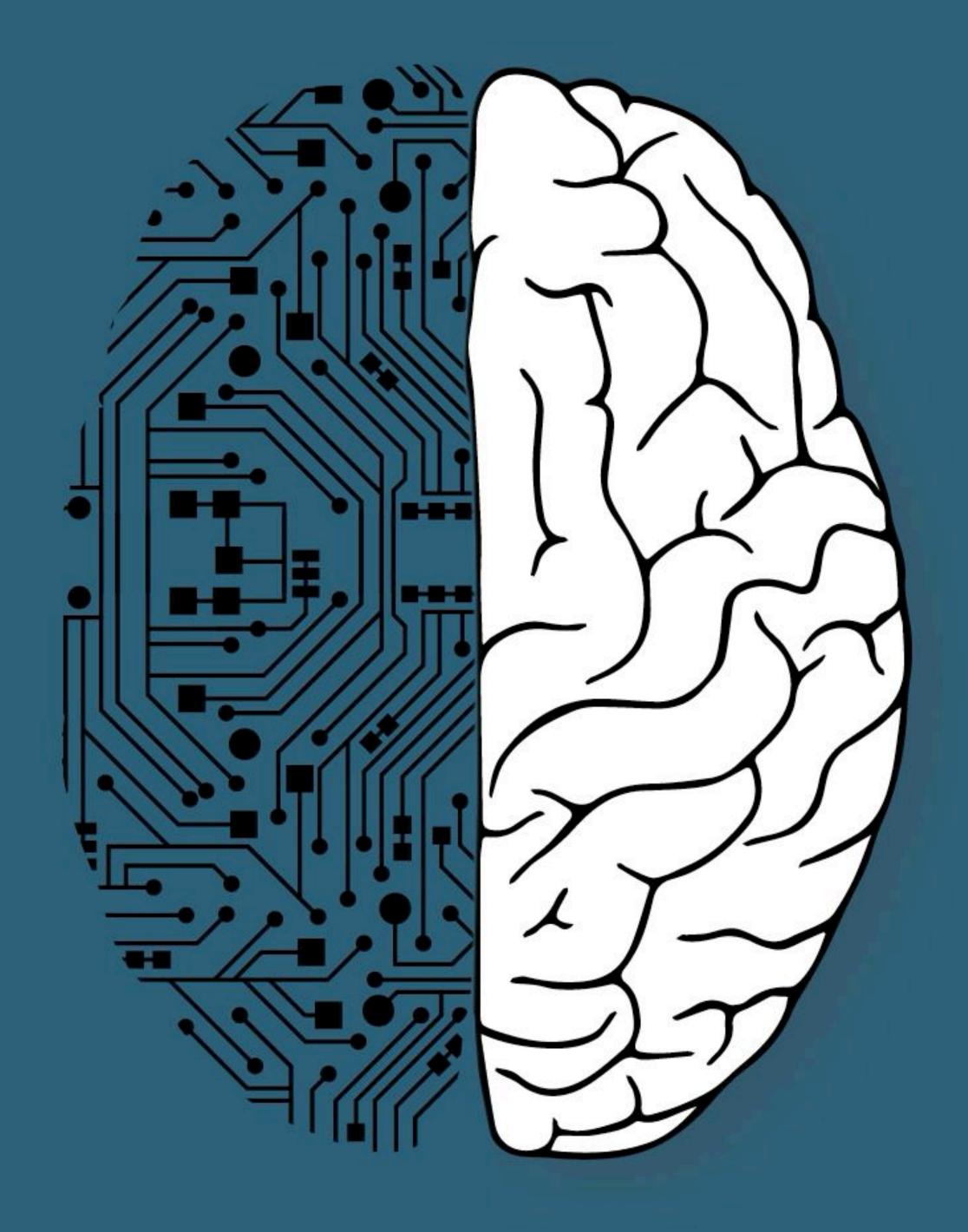
Gěrd

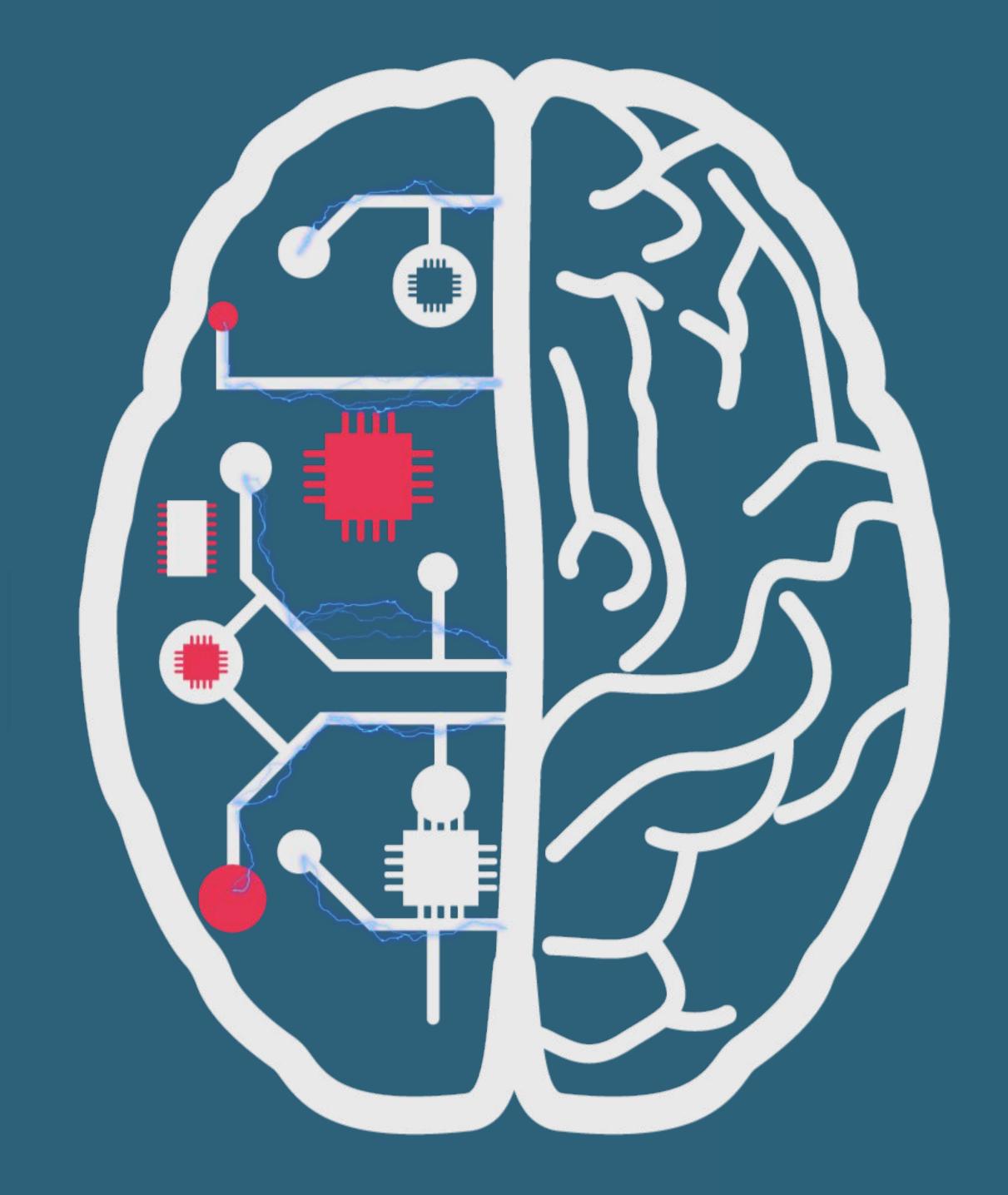




This is a horse.









ELON MUSK BELIEVES HE CAN

MERGERGURMINDS

Futurism

WITHMACHINES

8585.0333405 9920



His new venture, Neuralink, is a thin mesh device



THAT WILL BE **INSERTED INTO HUMAN SKULLS** TO CREATE AN INTERFACE WITH THE BRAIN

Futurism





How far would YOU take this?

))



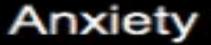
We think with the body not just with the brain! (Seligman, Feldenkrais et al)

Anger

Fear

Disgust

Happiness



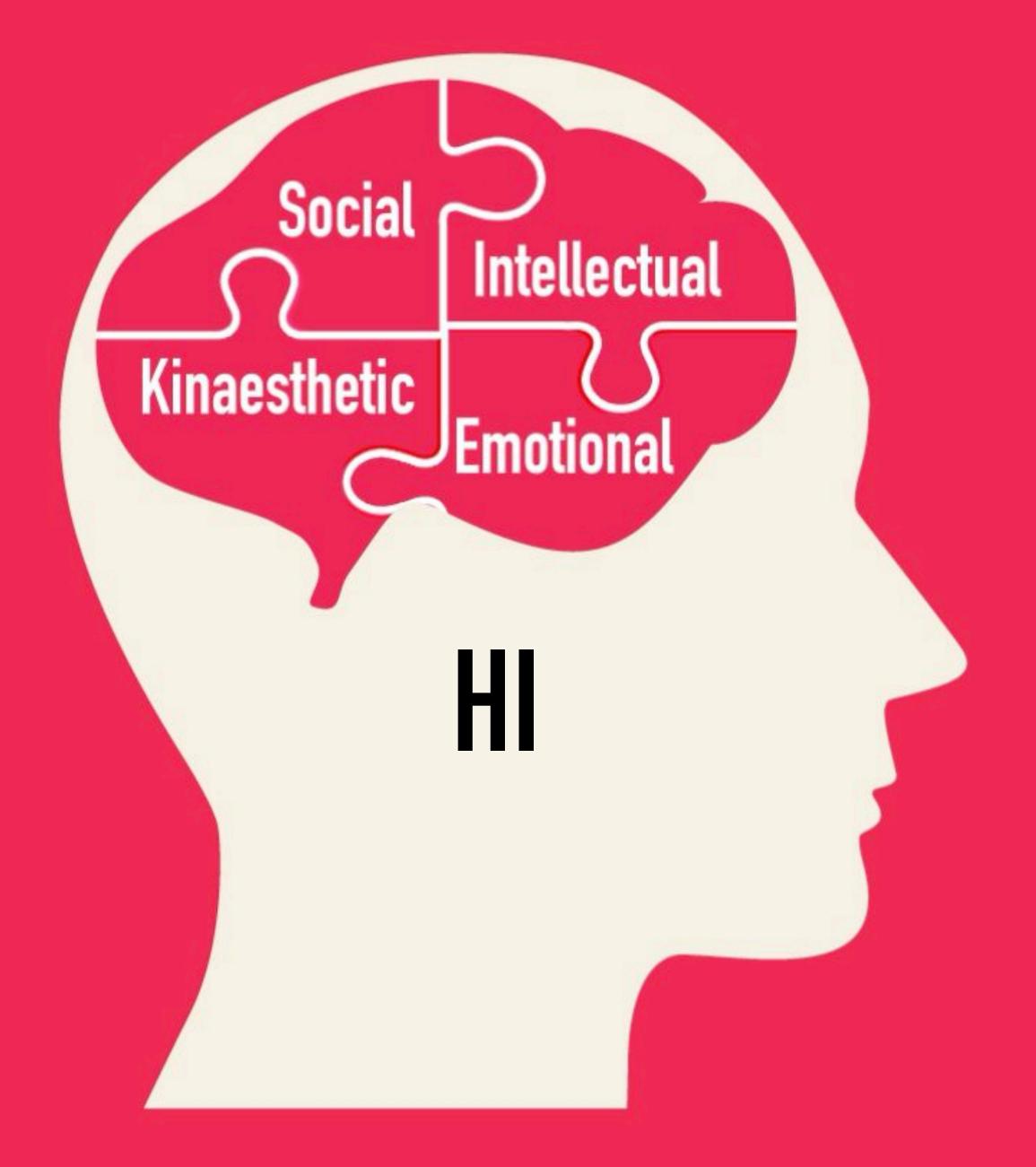
Love

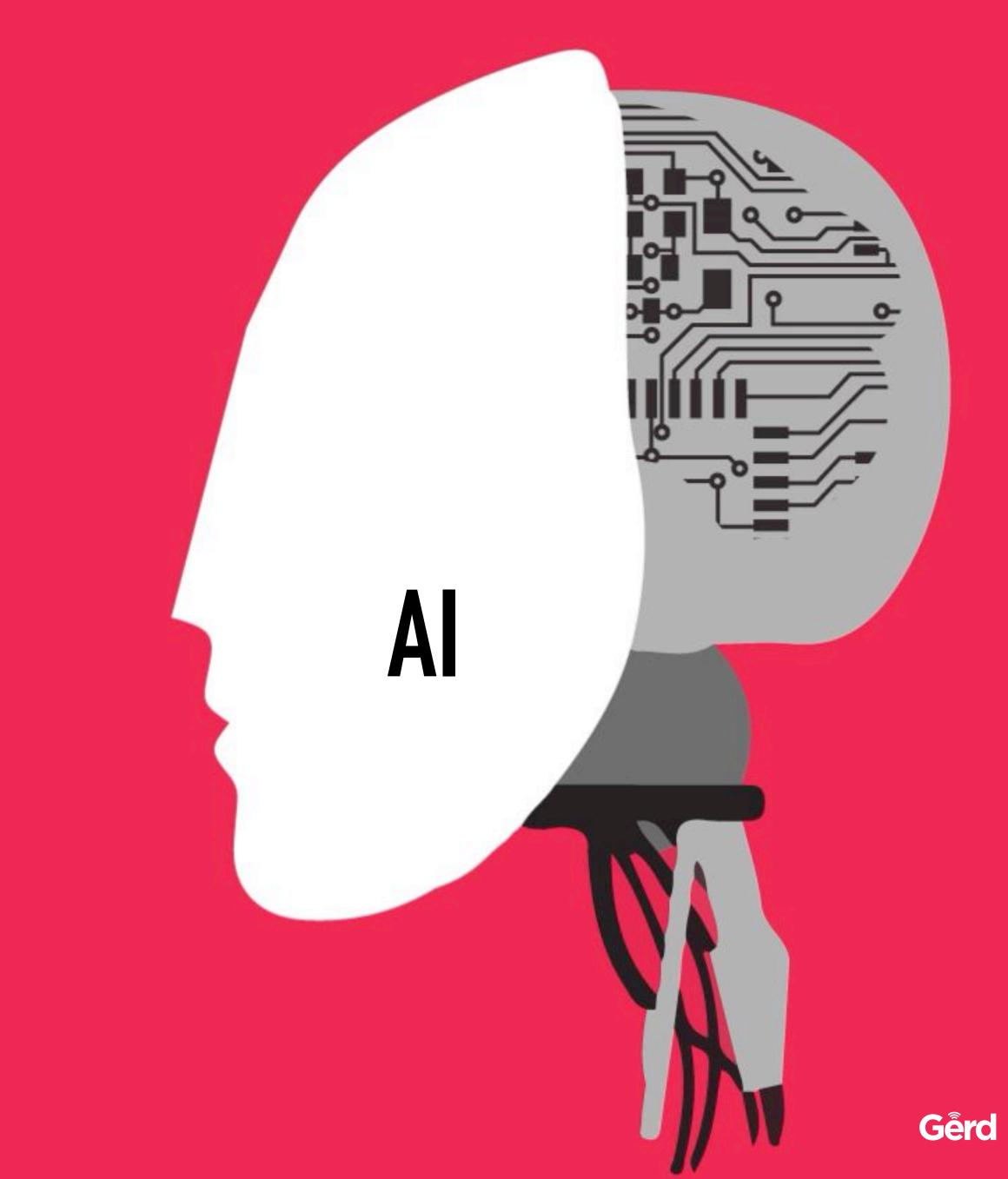
Depression Contempt











Algorithms can outperform human intelligence when it is NOT about understanding emotions, intentions, interpretations, consciousness, self-awareness aka #androrithms





Machines don't do relationships!



Today, the biggest danger is not that machines will eliminate us but that we become too much like them!





The Game Changers



"Gradually, then suddenly" is the new normal

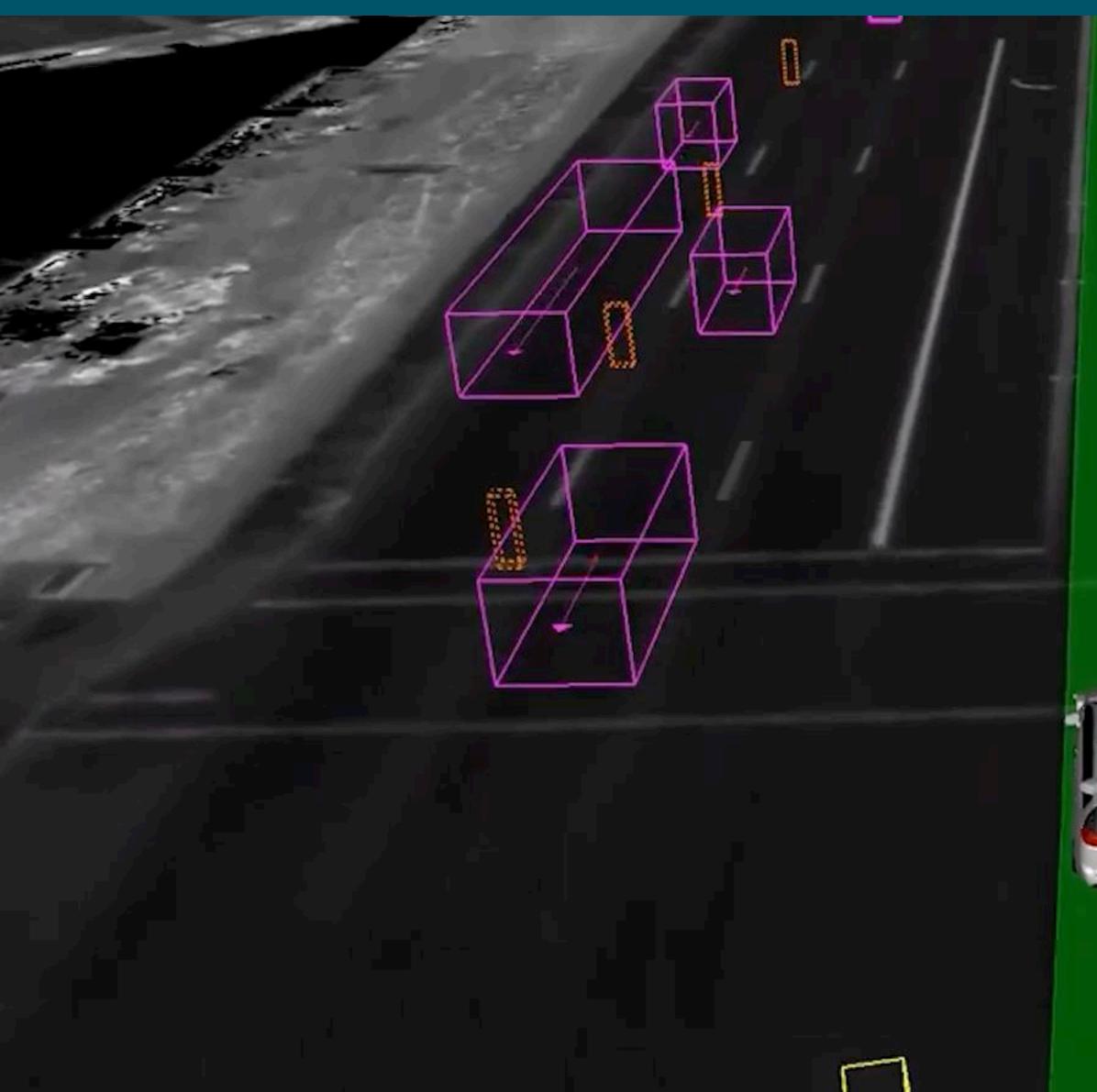


• 1 2 4 8 16 32 64 1 28 2 56 5 1 2

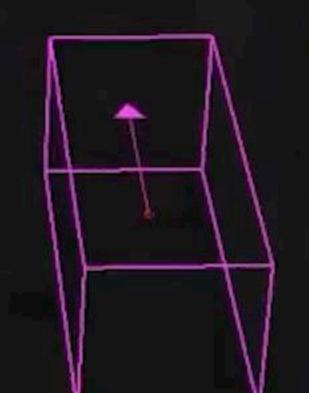
CONVERGENT



Science Fiction is becoming Science Fact WAYMO ONE IS ROLLING OUT PHOENIX - ARIZONA



FOOTAGE 3X SPEED





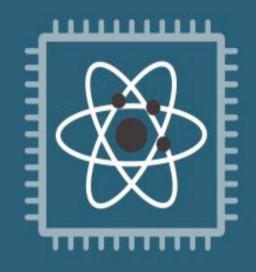


















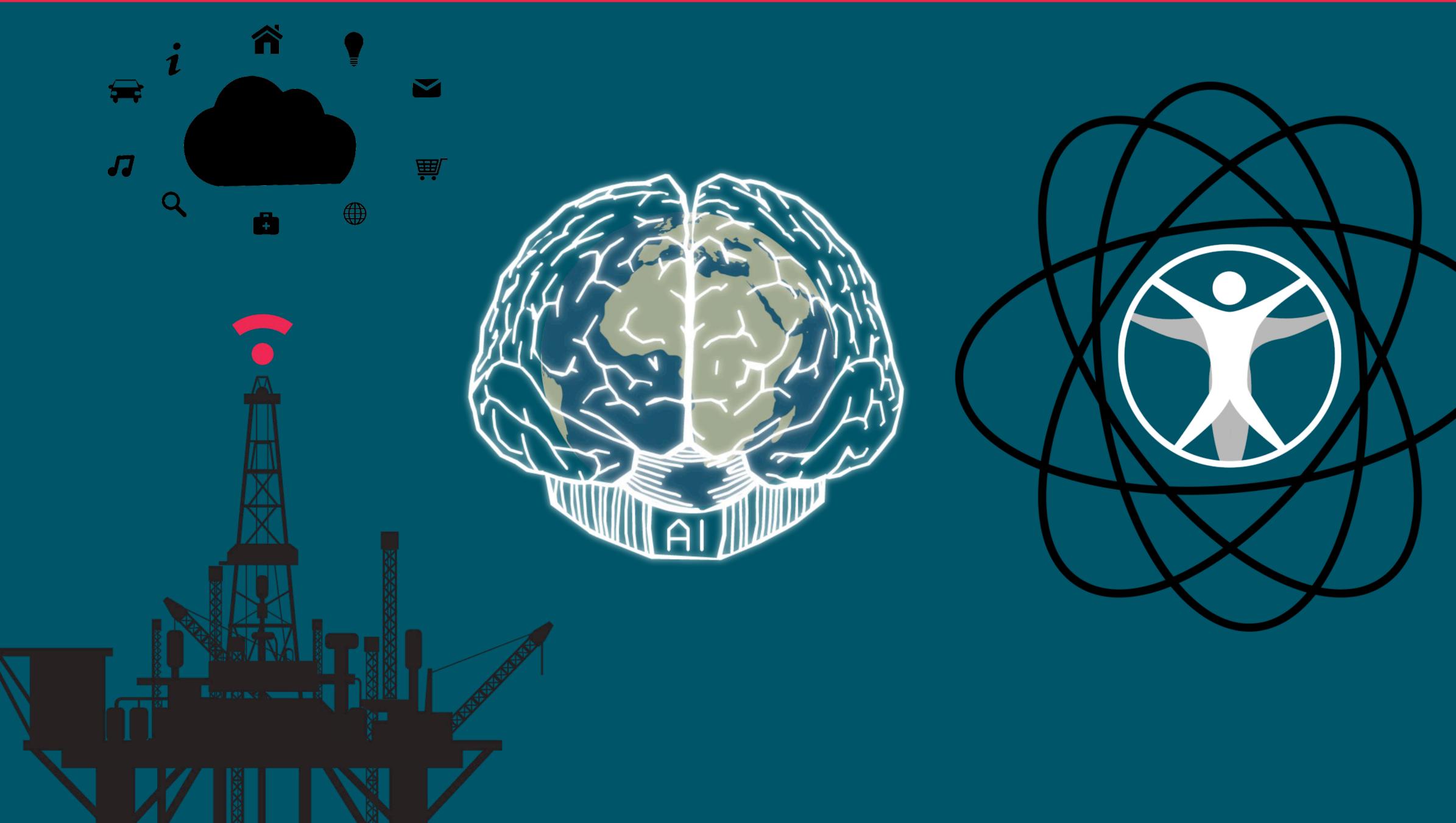
DATA EVERYTHING **CONNECTED EVERYTHING CLOUD EVERYTHING COMPUTE ANYTHING SMART EVERYTHING** TRANSACT ANYTHING SEE EVERYTHING

MAKE (BE) ANYTHING





DATA is the new oil. The CLOUD is where we store it. All is how we make sense of it. But: HUMAN BENEFIT must remain at the core.





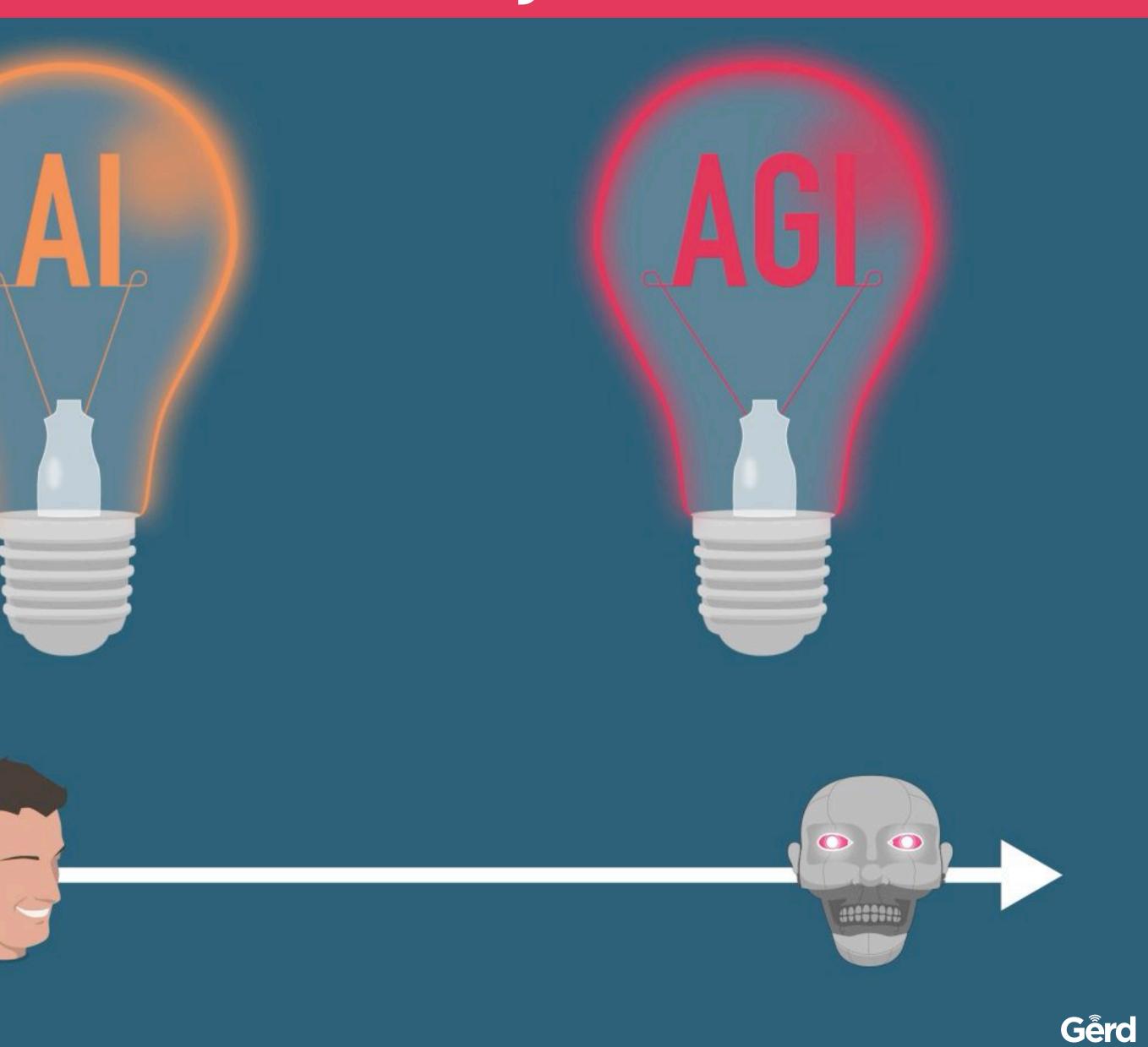




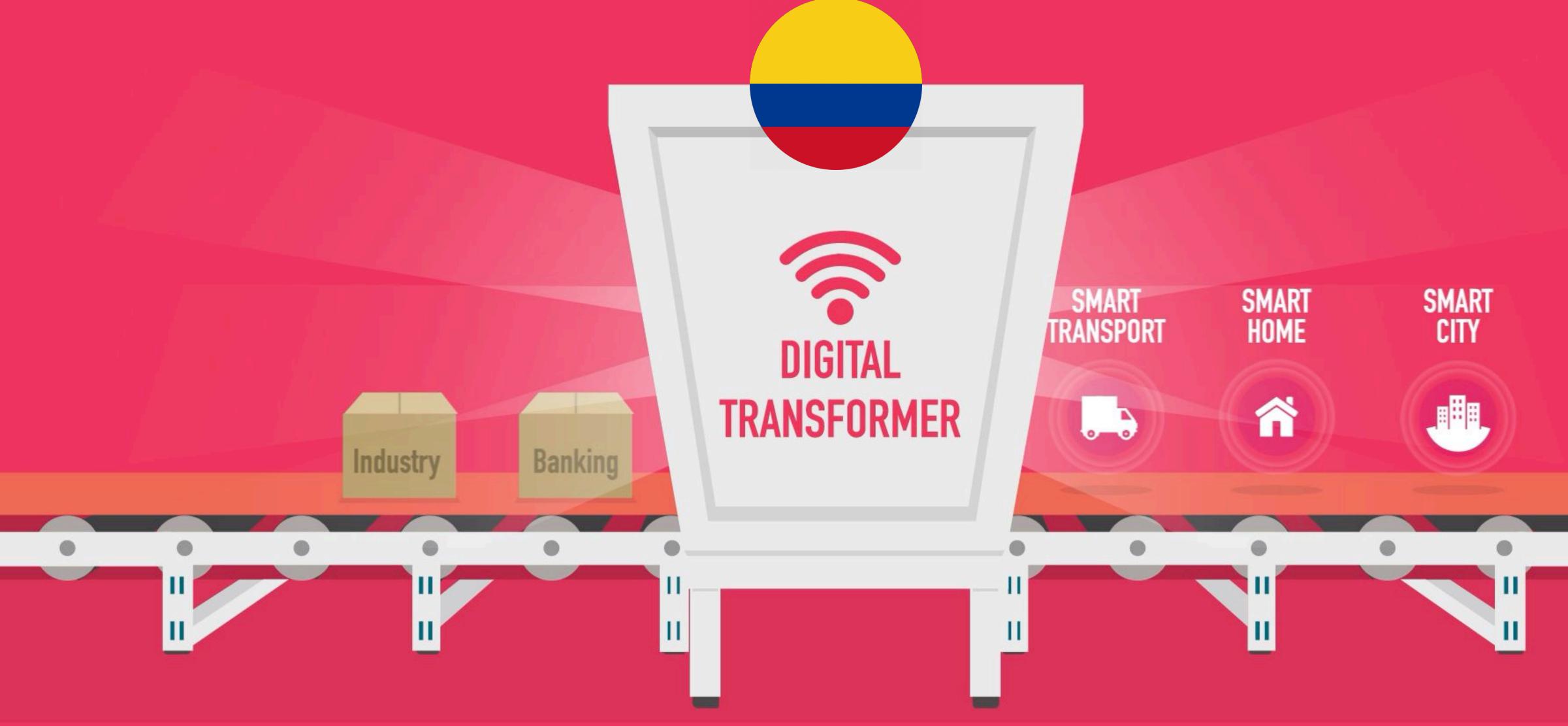


Thinking machines: Be careful what you wish for!





Smart Everything: Industry, Cities, Agriculture, Banking, Energy, Government, Transportation*



SMART ENERG



Smart AND Trusted & Human

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Slibra

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Slibra

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IN ZUOR

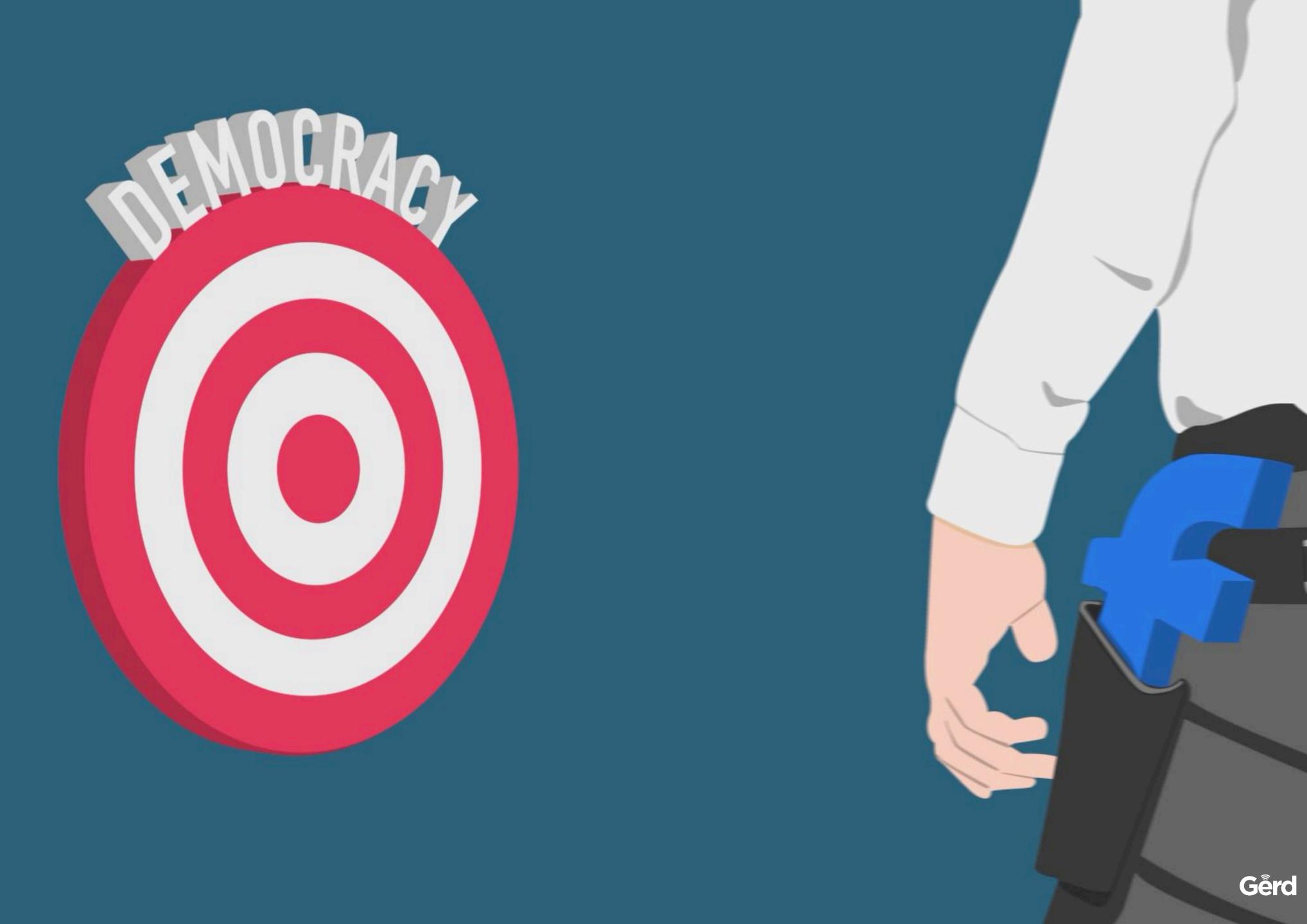
NETRUST

Slibra

ZUCK

FRUST





Responsibility | Accountability | Ethics: TRUST

<section-header>

CAN





Salesforce bans companies that sell certain types of guns from using its software

Lauren Feiner • Published Thu, May 30 2019 12:26 PM EDT



Salesforce has updated its policy to turn away customers that sell a wide r of firearms to private citizens online, including a small number of existing clients.

Protesters call on Salesforce to end contract with border patrol agency

'They are profiting off the suffering of immigrants,' or protester said

Salesforce hires its first chief ethical and humane use officer following **Benioff's criticism of Facebook**

Lauren Feiner

Published Mon, Dec 10 2018 1:11 PM EST Updated Mon, Dec 24 2018 3:31 PM EST

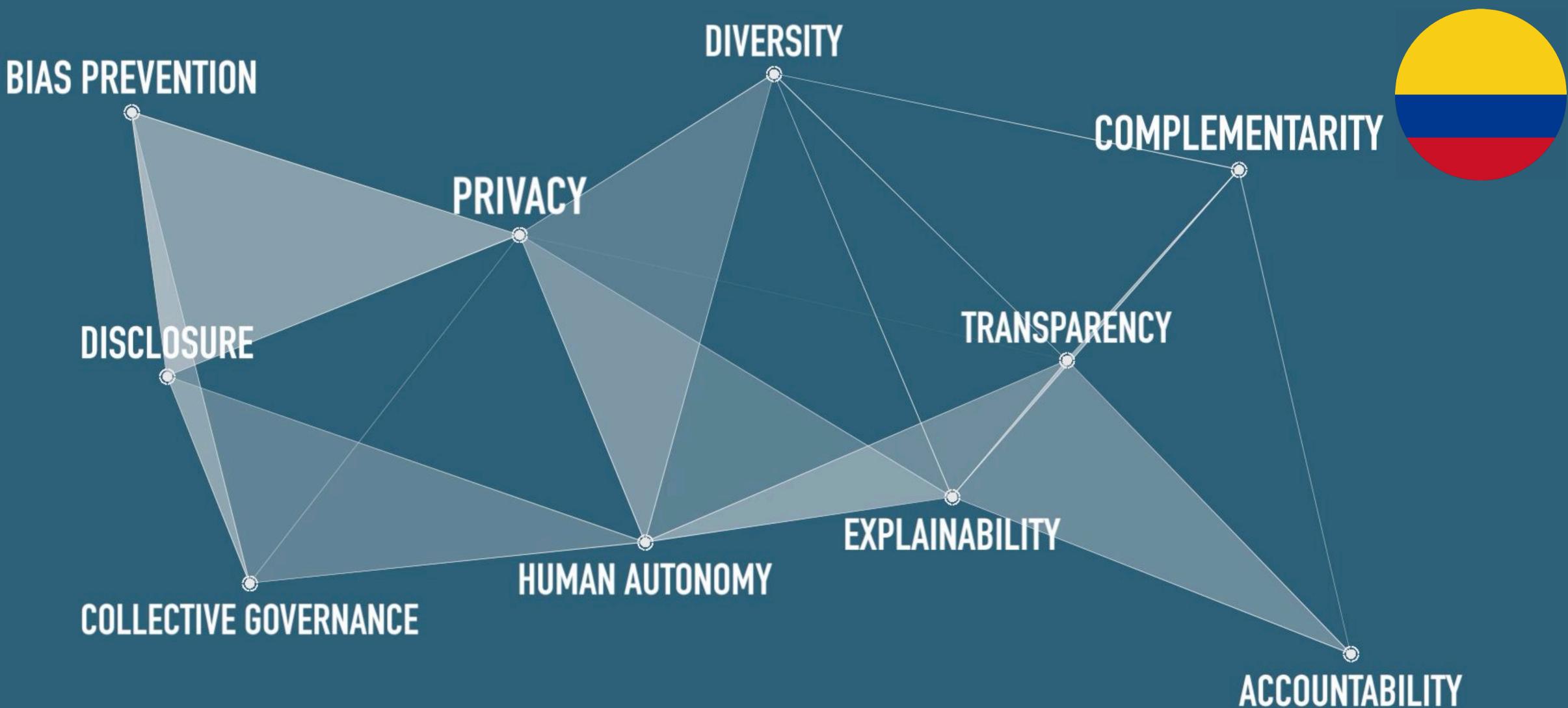


Marc Benioff, CEO of SalesForce at DreamForce in San Francisco on Sept. 25th, 2018. CNBC



Sec. 11

Every leading organisation will hire a Chief Ethics Officer within the next 3 years







"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







Gerd

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

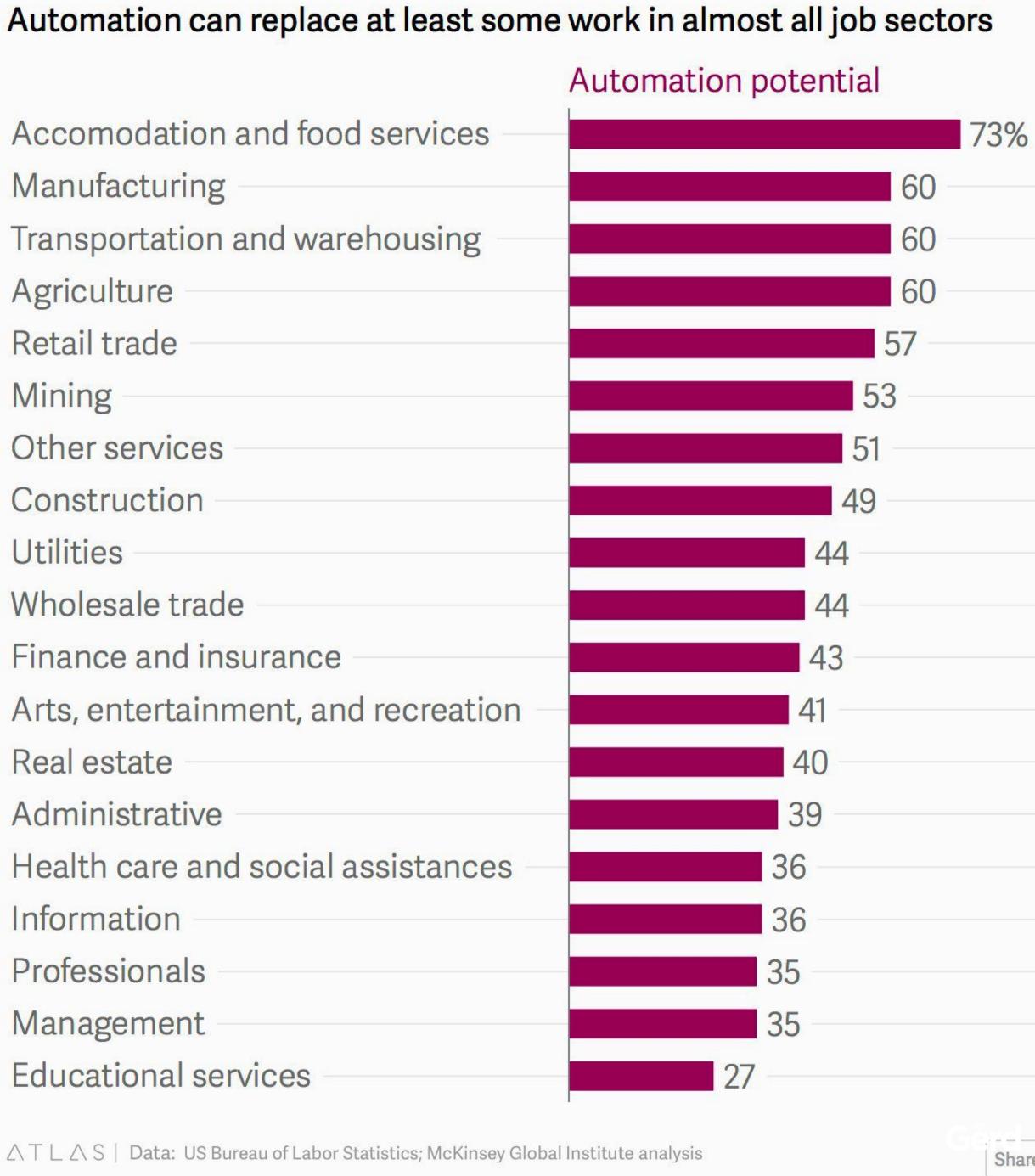
USELESS HUMANS





Gerd



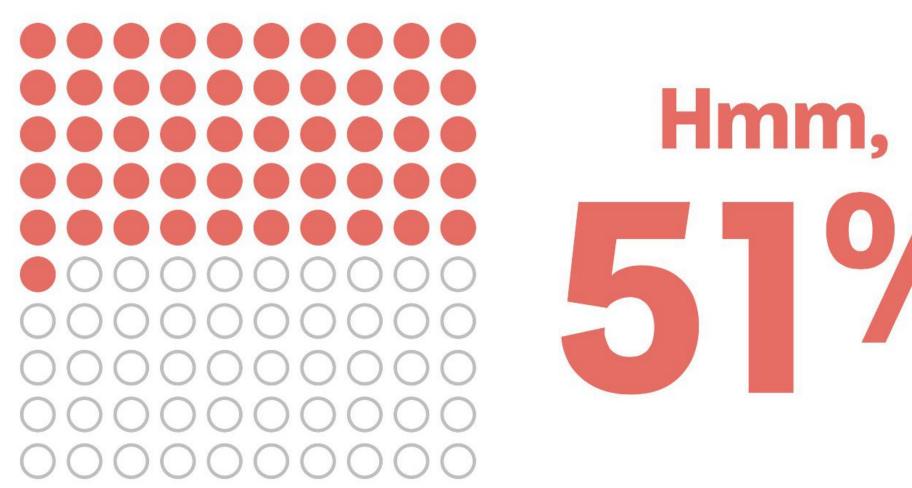




Public Speaker

Public Speaker

Arts Professionals



of your job is more susceptible to automation.

Some of your tasks that are easier to automate are...

- Review art or design materials.
- Study details of musical compositions.
- Review production information to determine costume or makeup requirements.
- Read work orders or other instructions to determine product specifications or materials requirements.









But anything that CANNOT be digitised or automated, becomes extremely valuable



COMPASSION

MYSTERY

VALUES

EMOTIONS

CREATIVITY

IMAGINATION

ETHICS

EMPATHY



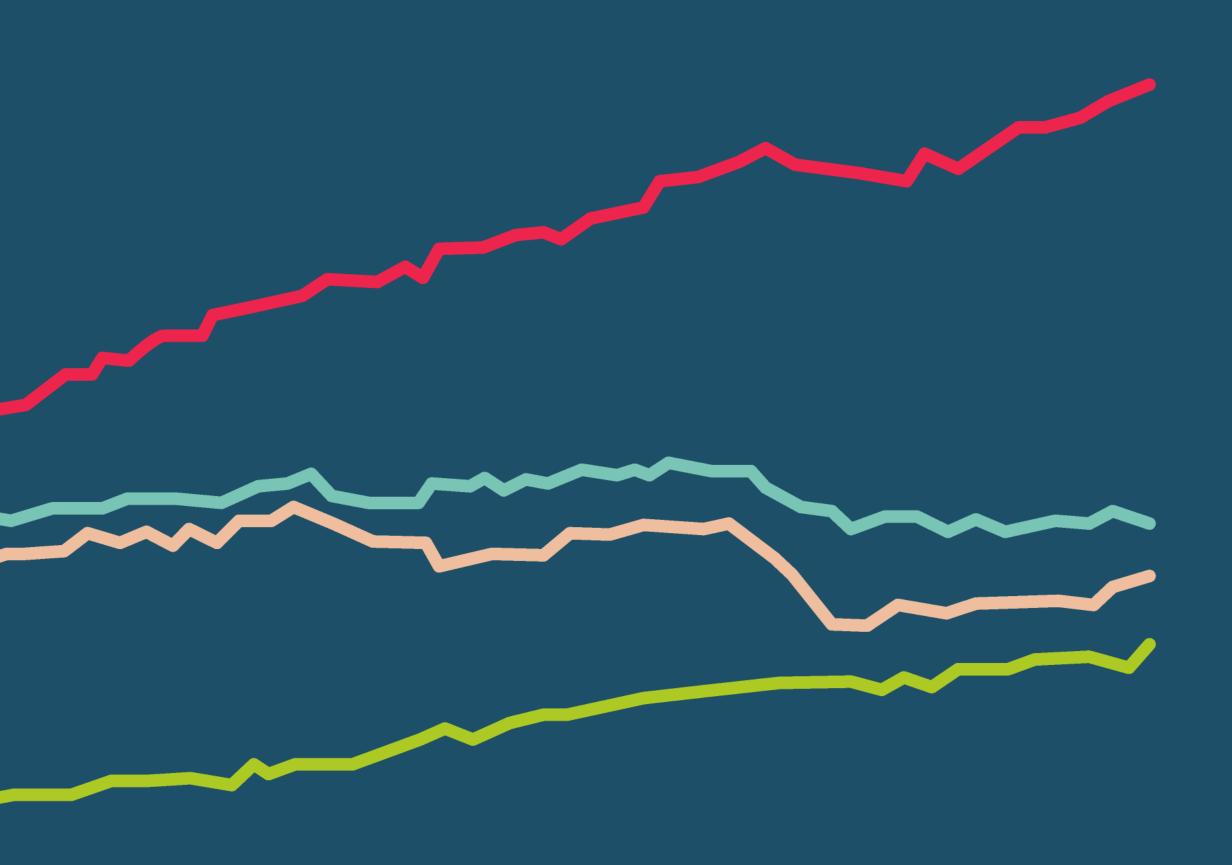




NON-ROUTINE WORK IS THE FUTURE!

60m 50m 40m 30m 20m

Non-routine cognitive **Routine cognitive Routine manual** Non-routine manual 10m 1983 1990









2017



PASSION

IMAGINATION



PURPOSE

CURIOSITY

FORESIGHT

CRITICAL THINKING





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**





Science echnology Engineering athematics

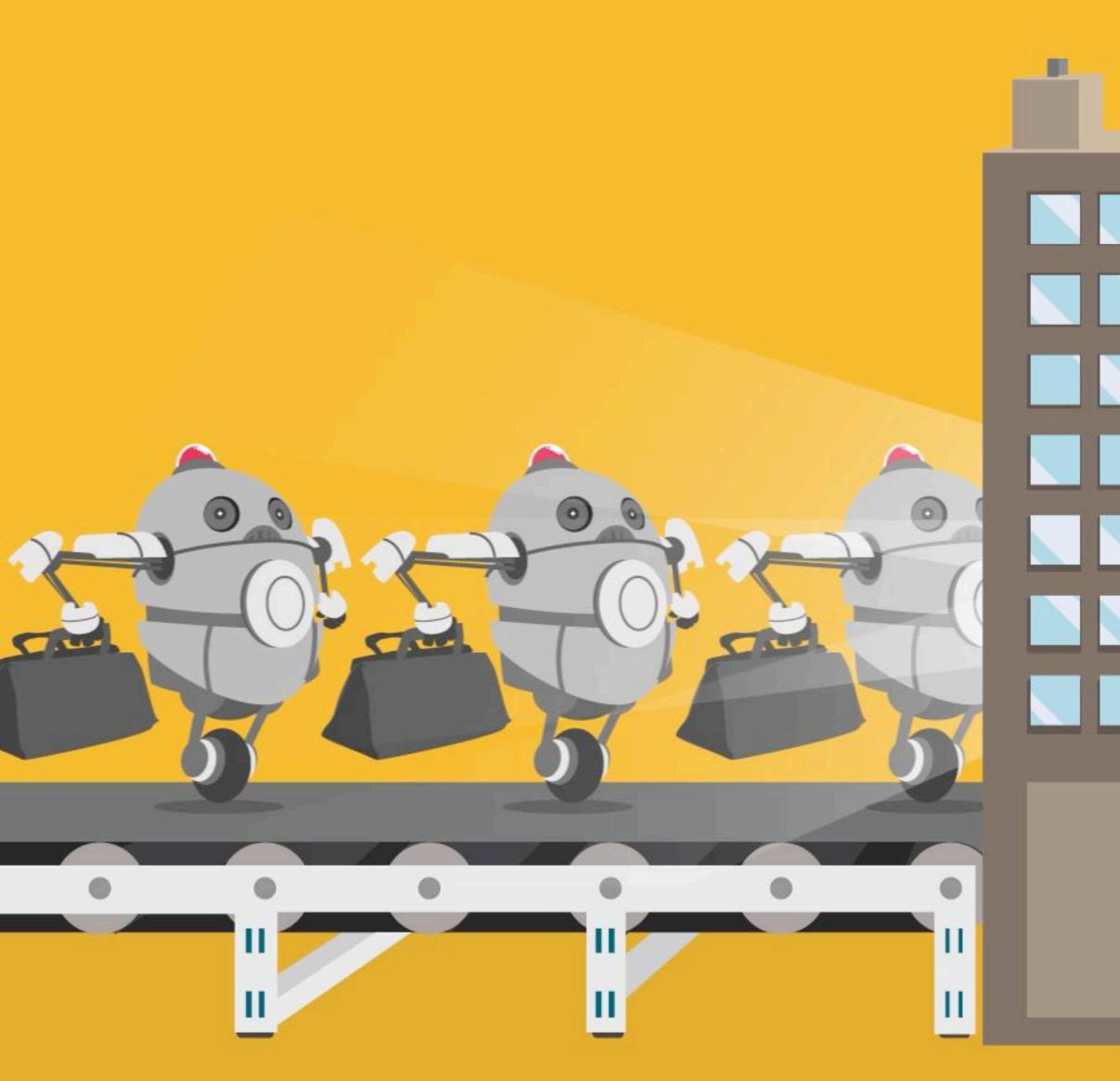
umanity **Ethics** Creativity magination

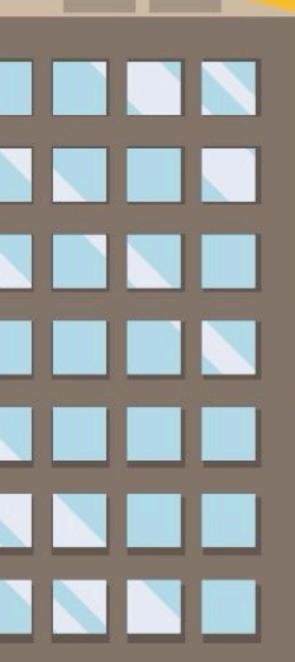


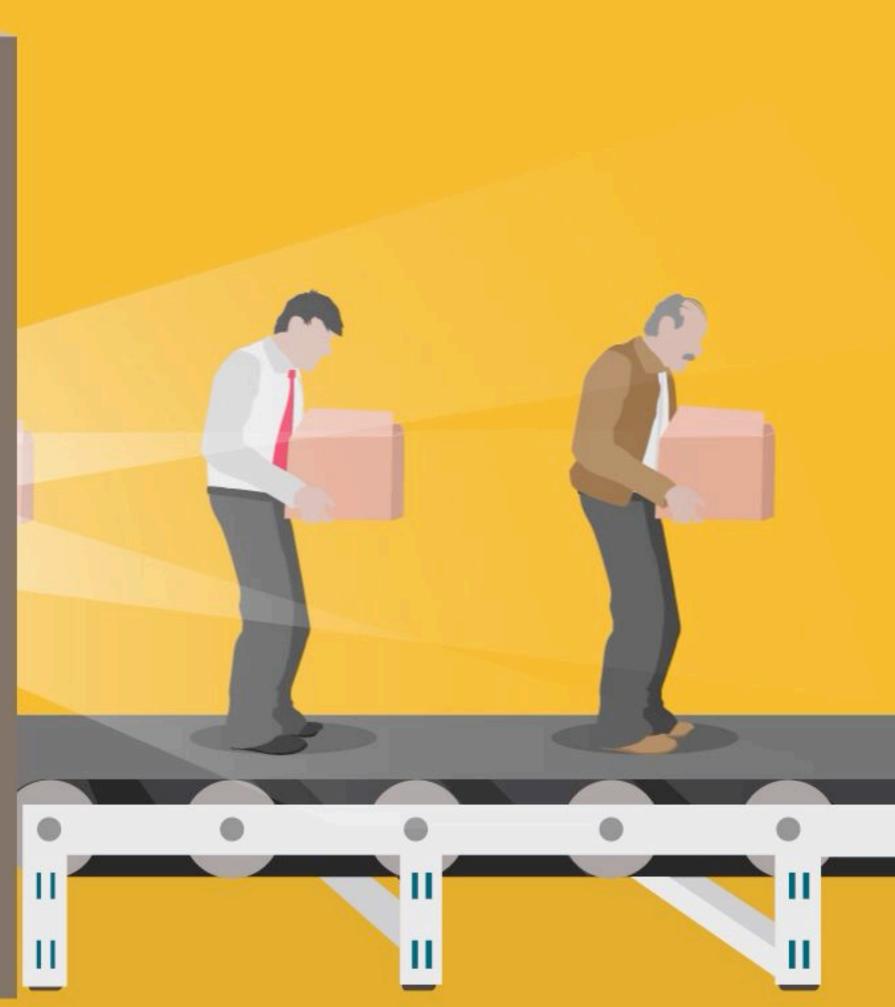




Automation will have vastly more impact than globalisation: Time to prepare!













"Automation is good for growth and bad for equality" (Christine Lagarde, the IMF)





Hyper-collaborate don't hyper-compete. Grow TOGETHER.

EGO



ECO

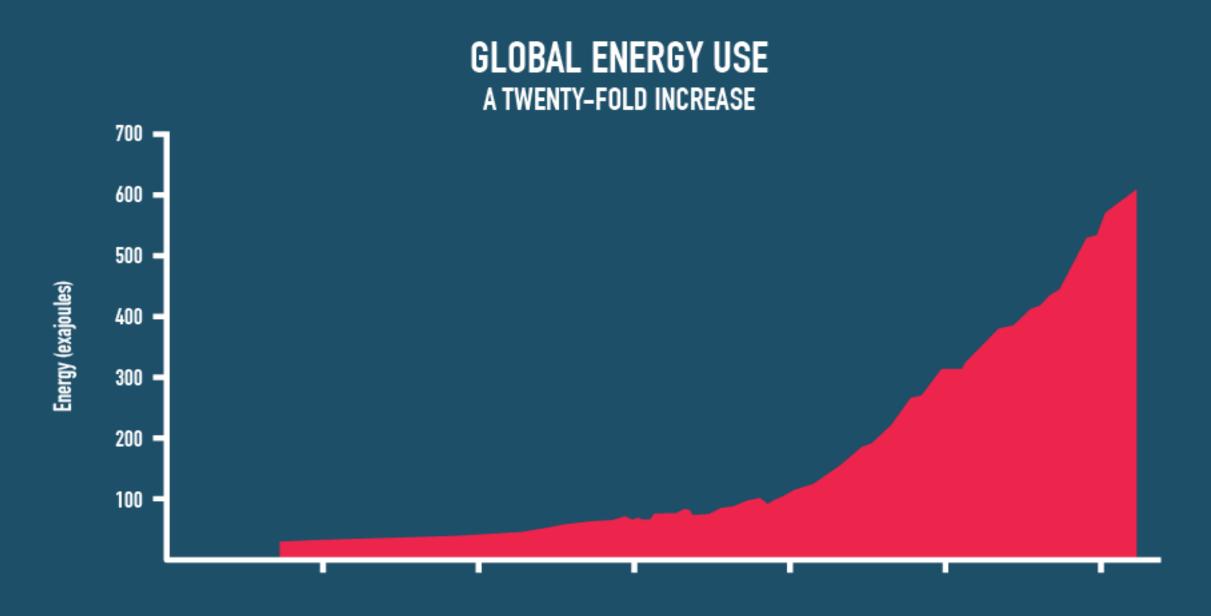


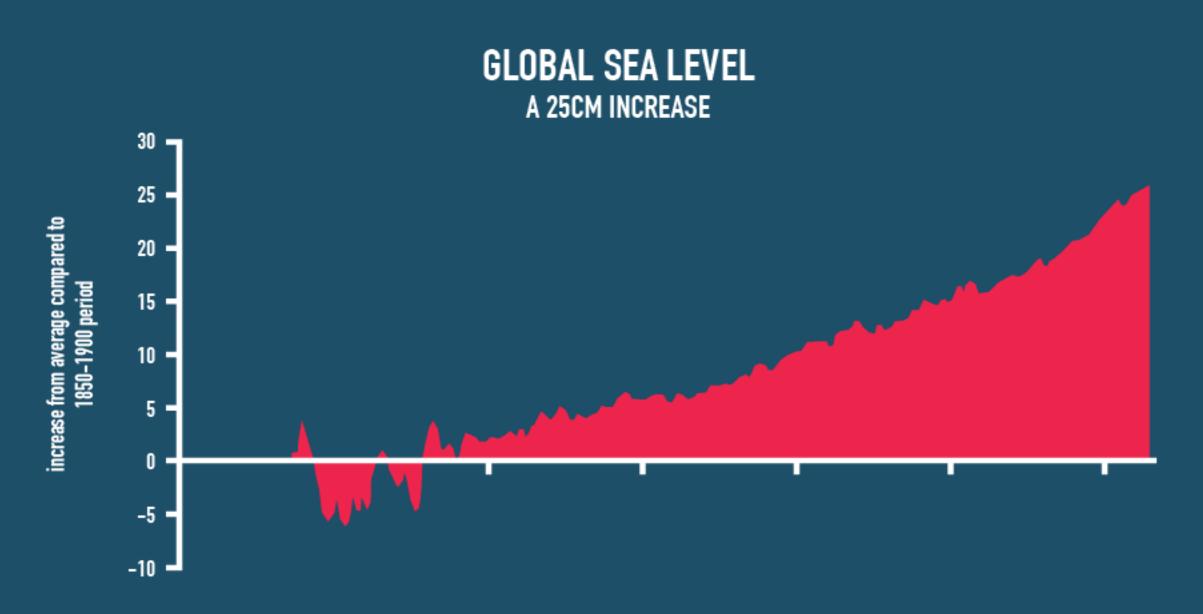
2 major 'environmental' challenges





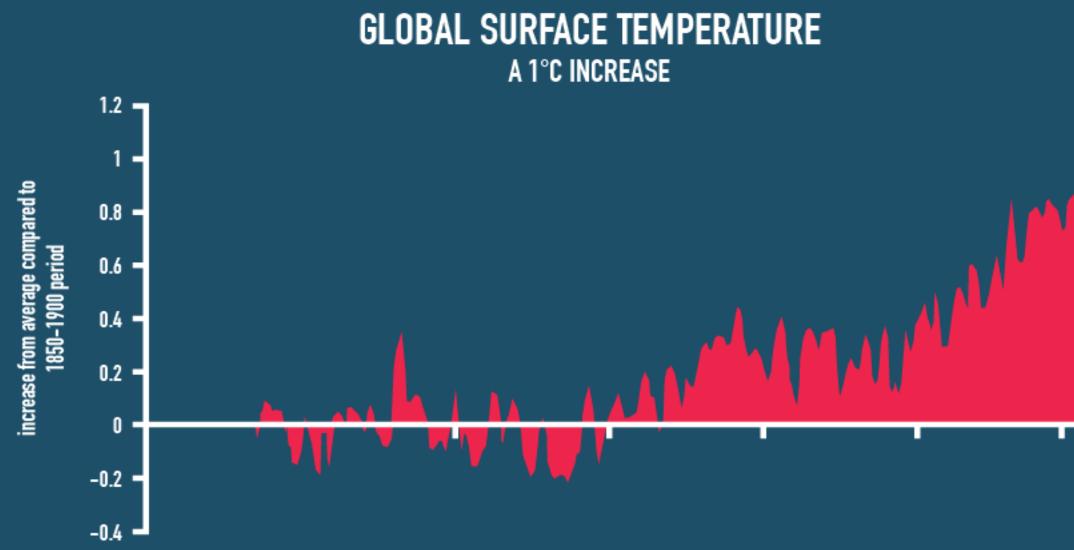
Unsustainable and outmoded 'industrial society' logic is destroying our environment















Unrestrained 'technology & information society' – logic will destroy our societal fabric





Gerd

Too much of a good thing can be a very bad thing (surveillance & platform capitalism)

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GOVERNMENT must monitor, supervise and regulate.



INDUSTRY LEADERS must be accountable. USERS must make informed choices.







Gerd

Sustainable Capitalism PLANET

PEOPLE





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PURPOSE



"GNP (GDP) measures everything except that which makes life worthwhile" **Senator Robert F. Kennedy**

March 18 1968

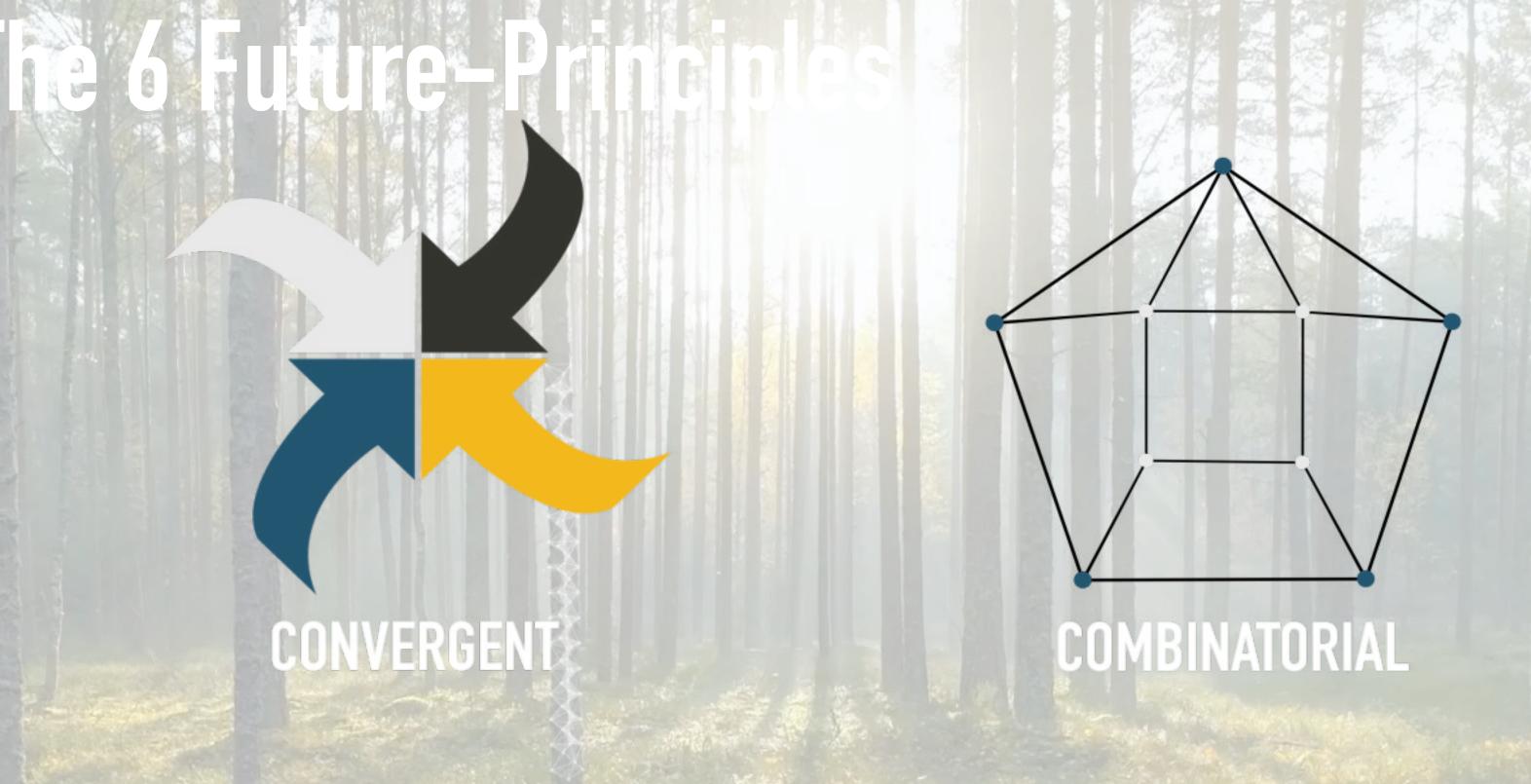


Gêrd

EXPONENTIAL . . TOMORROW

JAI . . .

HOLISTIC



CIRCULAR



HUMAN



The future is better than we think – we just need to GOVERN PROGRESS WISELY!





The future is a MINDSET, not a time-frame! Observe | Understand | Imagine | CREATE



FUTURE







IMAGINATION

PASSION

CRITICAL THINKING



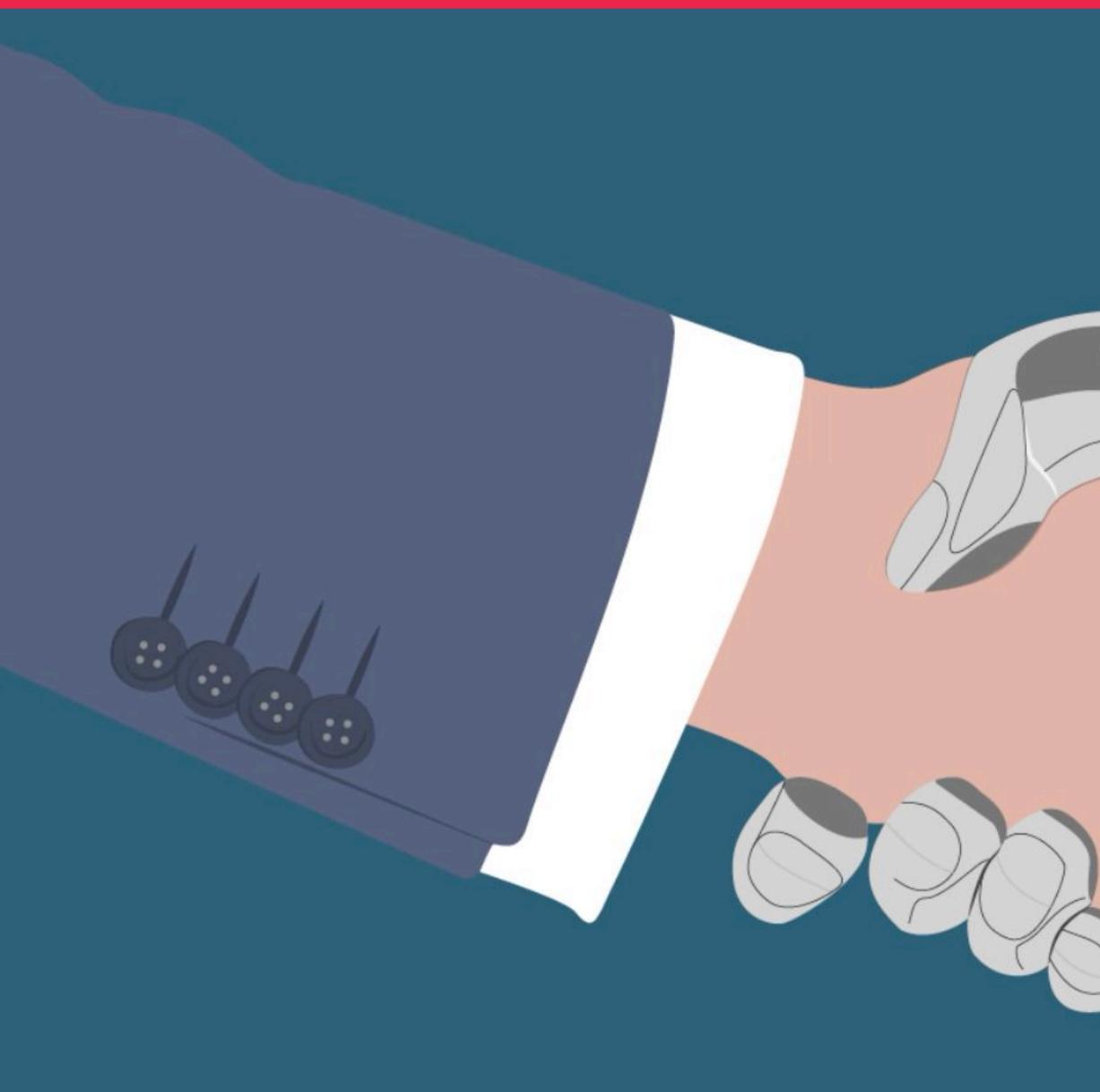


CURIOSITY

FORESIGHT

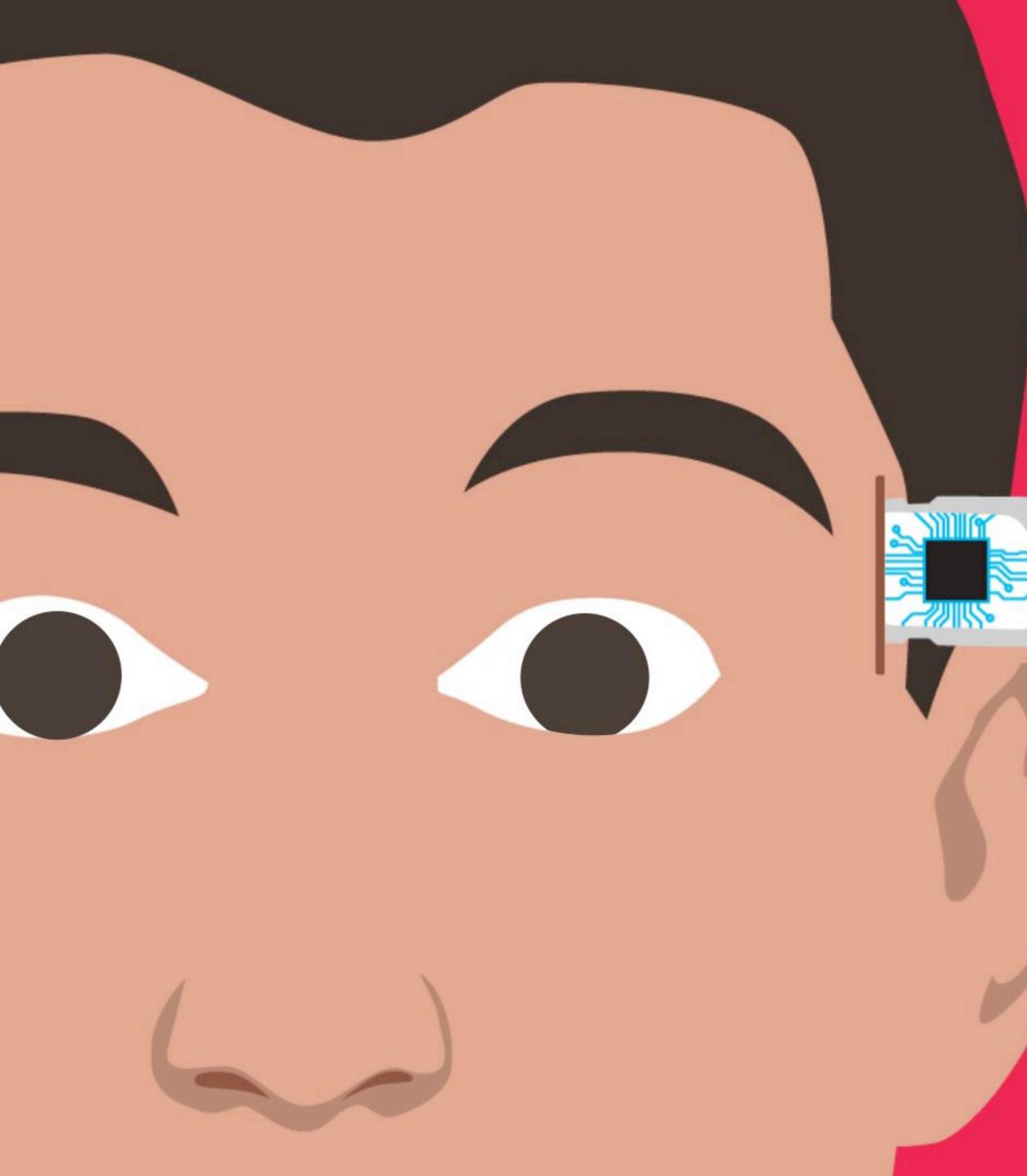


Future success is all about finding the right balance





Gerd



Embrace technology - but don't become it!



Gêrd



