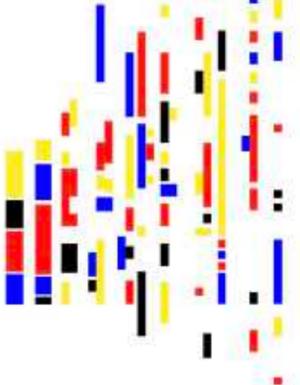


# The next 10 years:

## Rethinking Work, Revolutionising Education

International Forum for Visionaries & Leaders

**Steering Education:**  
From Imagination to Impact



Riga, June 3, 2022,  
Conference centre Teikums, Fantadroms

Gerd Leonhard, Futurist & CEO The Futures Agency



@gleonhard



gerdtube.com



futuristgerd.com



thegoodfuturefilm.com

The future is **no longer** an extension of the present

The future is not something that just happens to us – **it's something we CREATE!**



# As you see the future, so you act; as you act so you become!

Barbara Hubbard / Buckminster Fuller



GREAT EDUCATION enables us to

**SEE, HEAR and**

**CREATE THE**

**FUTURE**



**Your attitude contains your Future !**

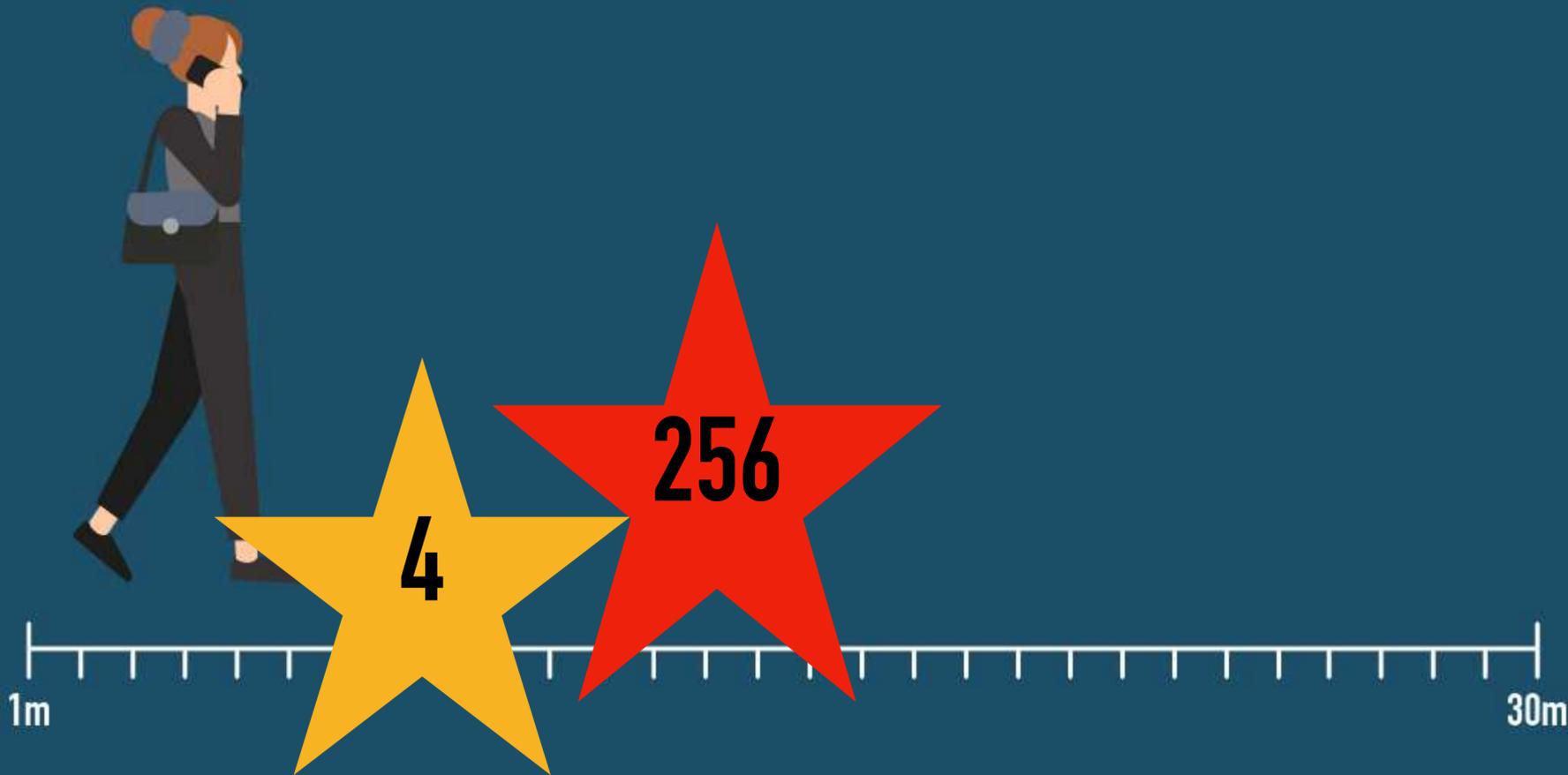
# We are **LEAPING** INTO THE FUTURE

30 LINEAR steps will take you  
30 meters from the starting point

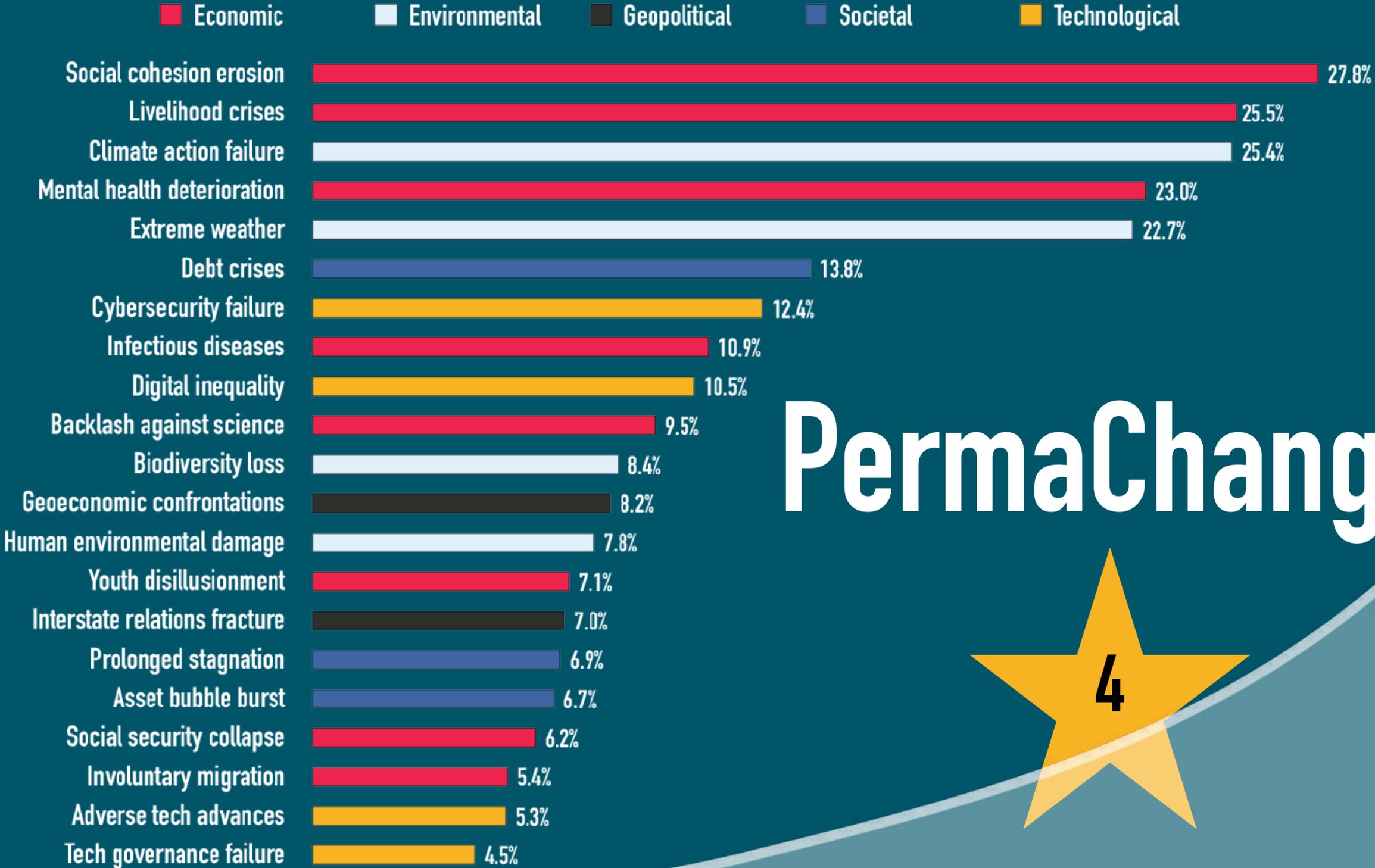
$$e^x$$

EXPONENTIAL

30 EXPONENTIAL steps will take you  
26 trips around the world!



# The next 10 years will bring more change than the previous 100 years

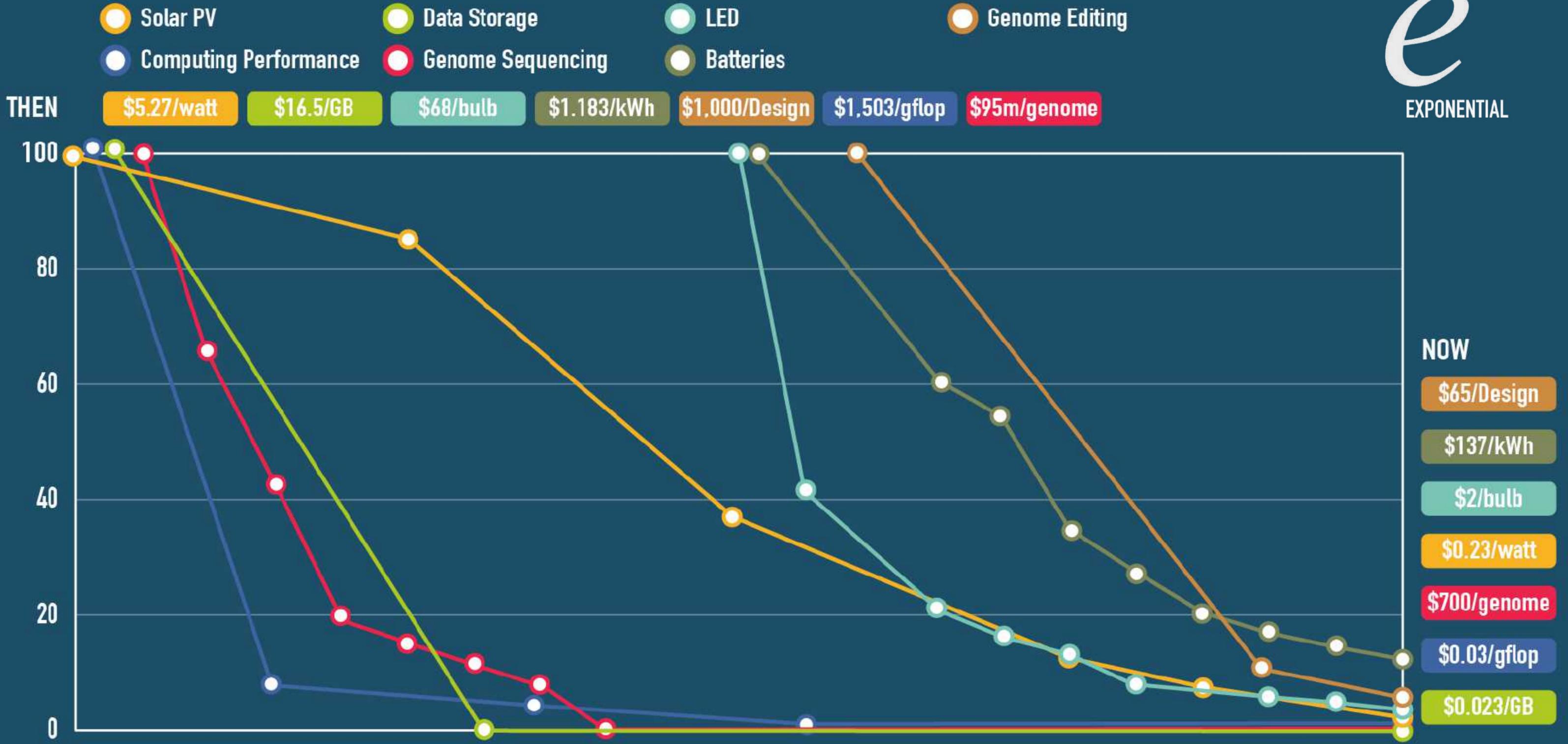


# PermaChange



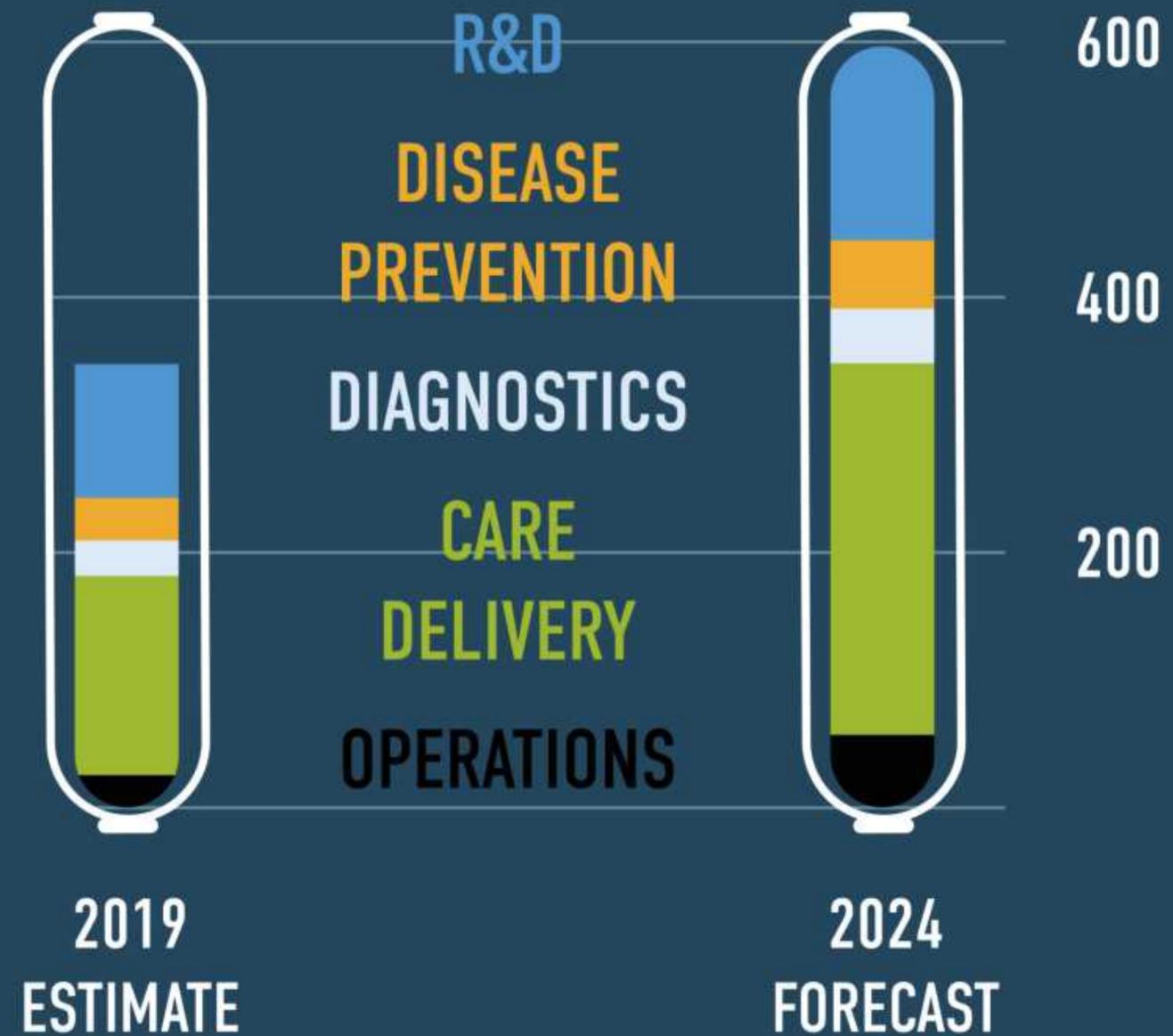
# EXPONENTIAL COST REDUCTION TREND

$e^x$   
EXPONENTIAL



Source: Balance Point Ventures

# GLOBAL DIGITAL HEALTHCARE MARKET SIZE BY \$ BILLION



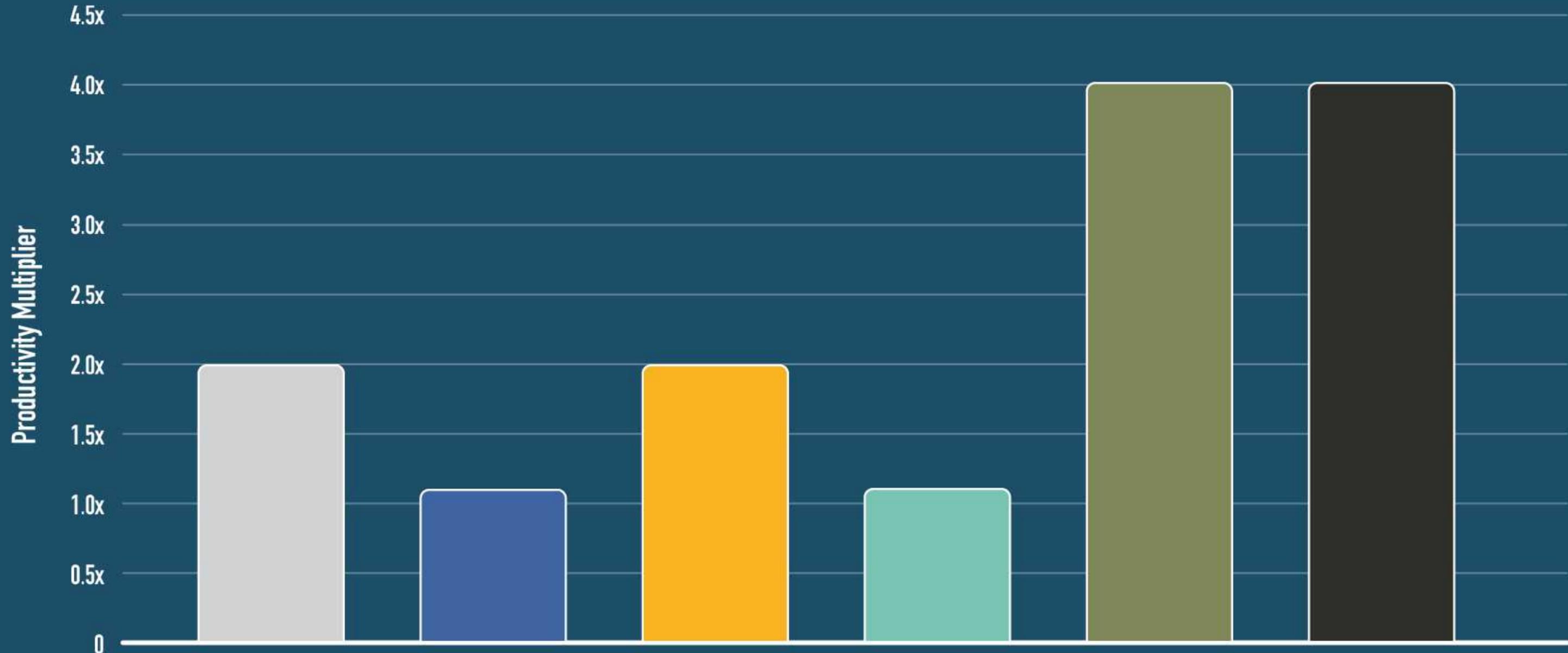
# OUTPUT OF AI-ASSISTED KNOWLEDGE WORKERS 2021 TO 2030

BY 2030 AI WILL INCREASE THE OUTPUT OF KNOWLEDGE WORKERS BY 140%

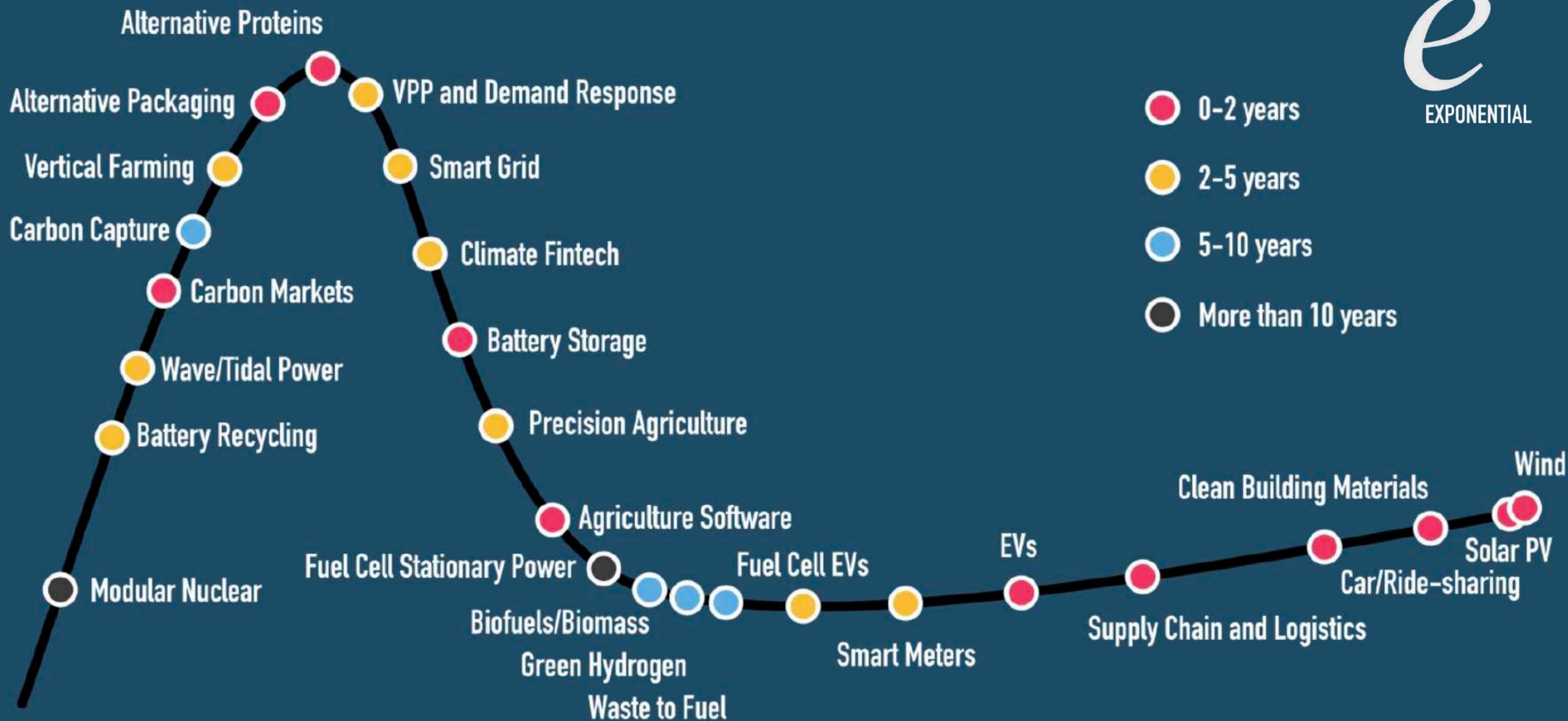
$e^x$

EXPONENTIAL

Software Developer Accountant Bookkeeper Lawyer Paralegal Office and Admin Support



$e^x$   
EXPONENTIAL



# Traditional Education is unfit for an Exponential / PermaChange World



**VOLATILITY**



**UNCERTAINTY**



**COMPLEXITY**



**AMBIGUITY**

# Traditional Education is unfit for an Exponential / PermaChange World



**VELOCITY**



**UNORTHODOXY**



**CO-CREATION**



**AWESOMENESS**

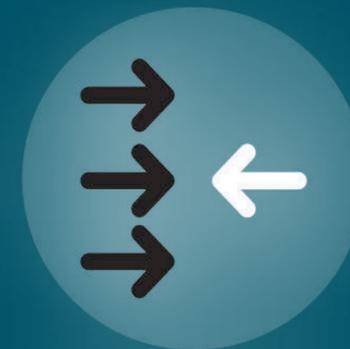
Futurist and Polymath Buckminster Fuller



“All children are born  
**GENUISES**, but  
9999 out every 10000 are  
swiftly and inadvertently  
**DEGENIUSED** by grownups”



**VELOCITY**



**UNORTHODOXY**

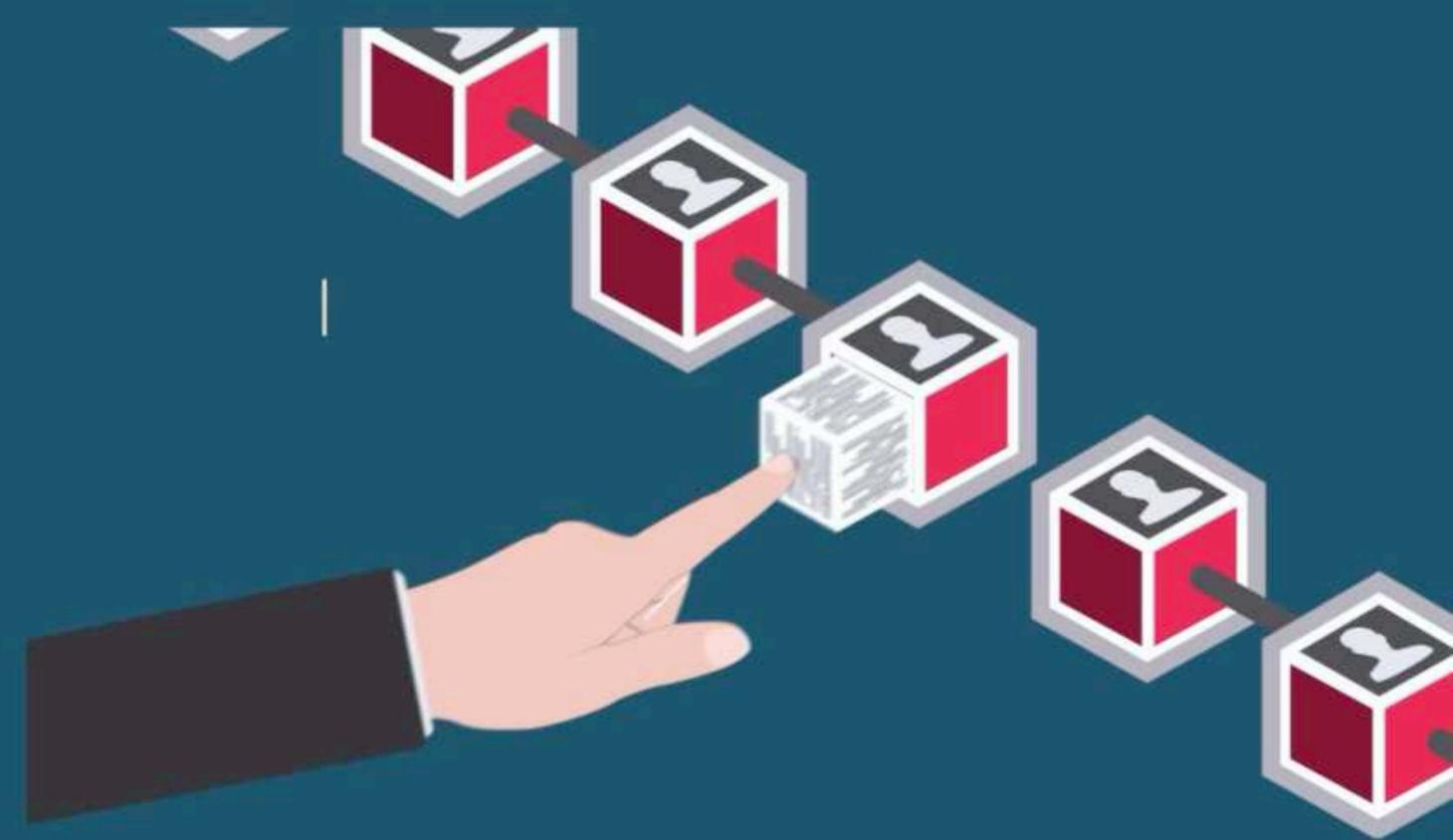


**CO-CREATION**



**AWESOMENESS**

# DIGITAL REVOLUTION

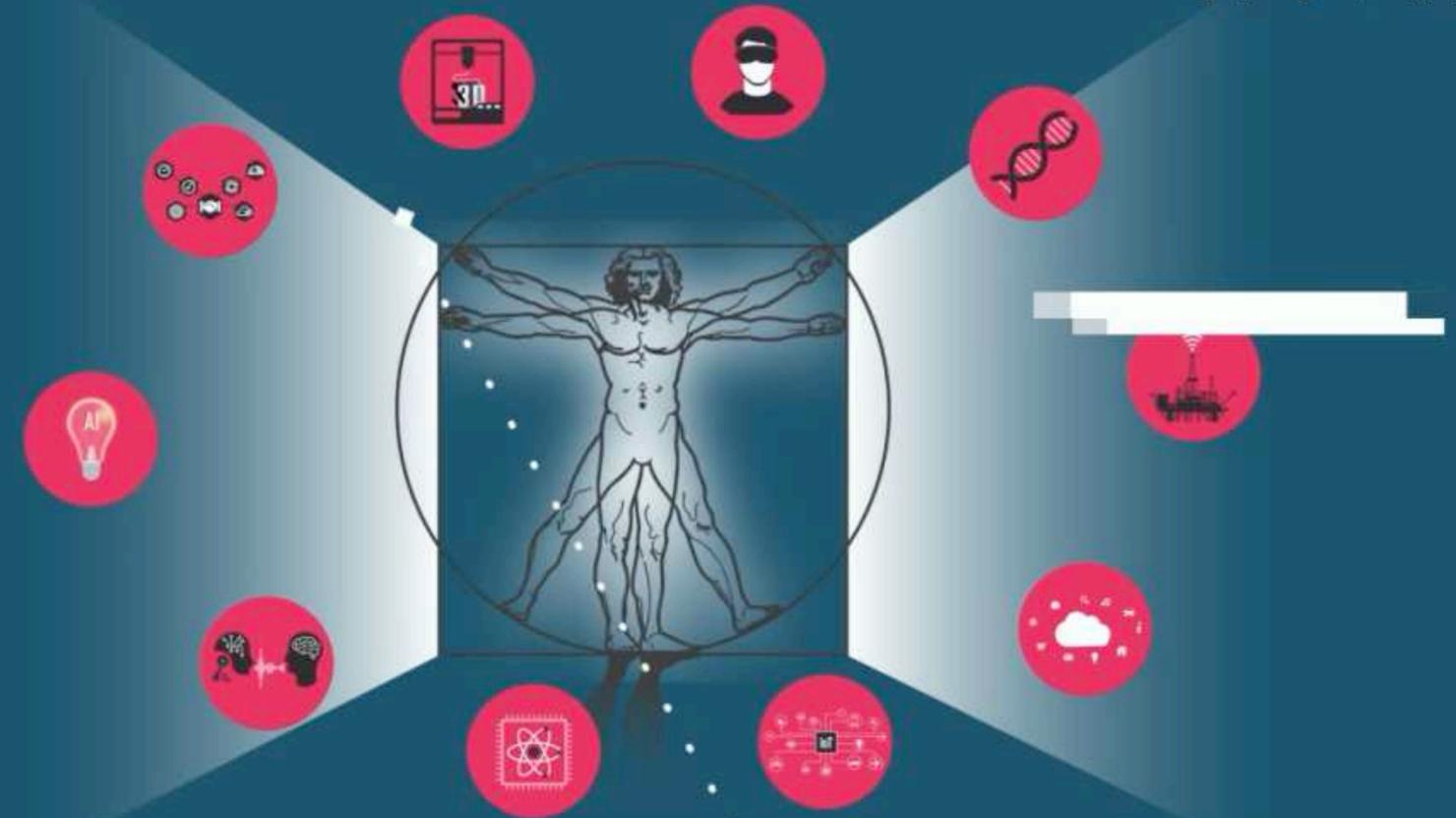


# SUSTAINABILITY REVOLUTION

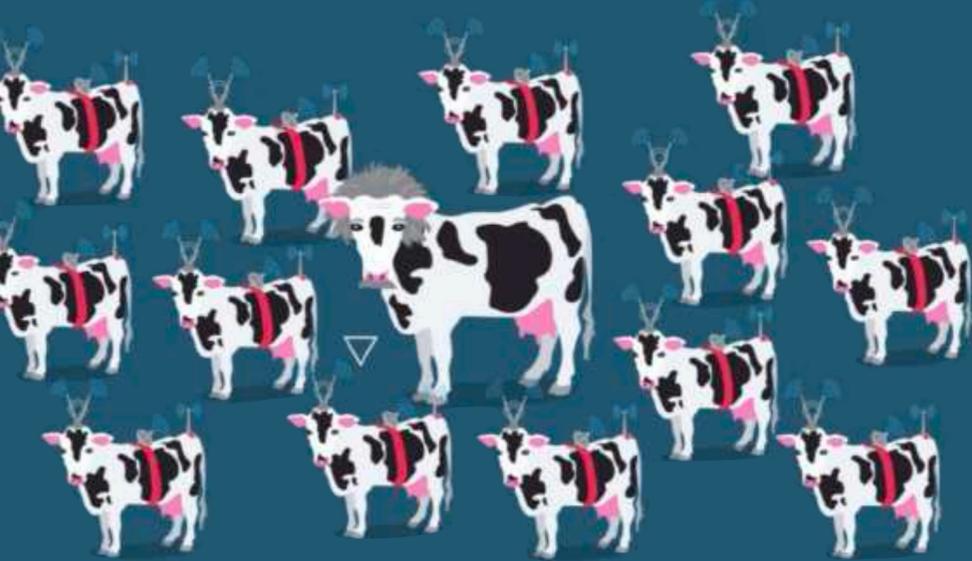




# THE HUMAN RENAISSANCE



DIGITAL  
REVOLUTION



# EDUCATION REVOLUTION

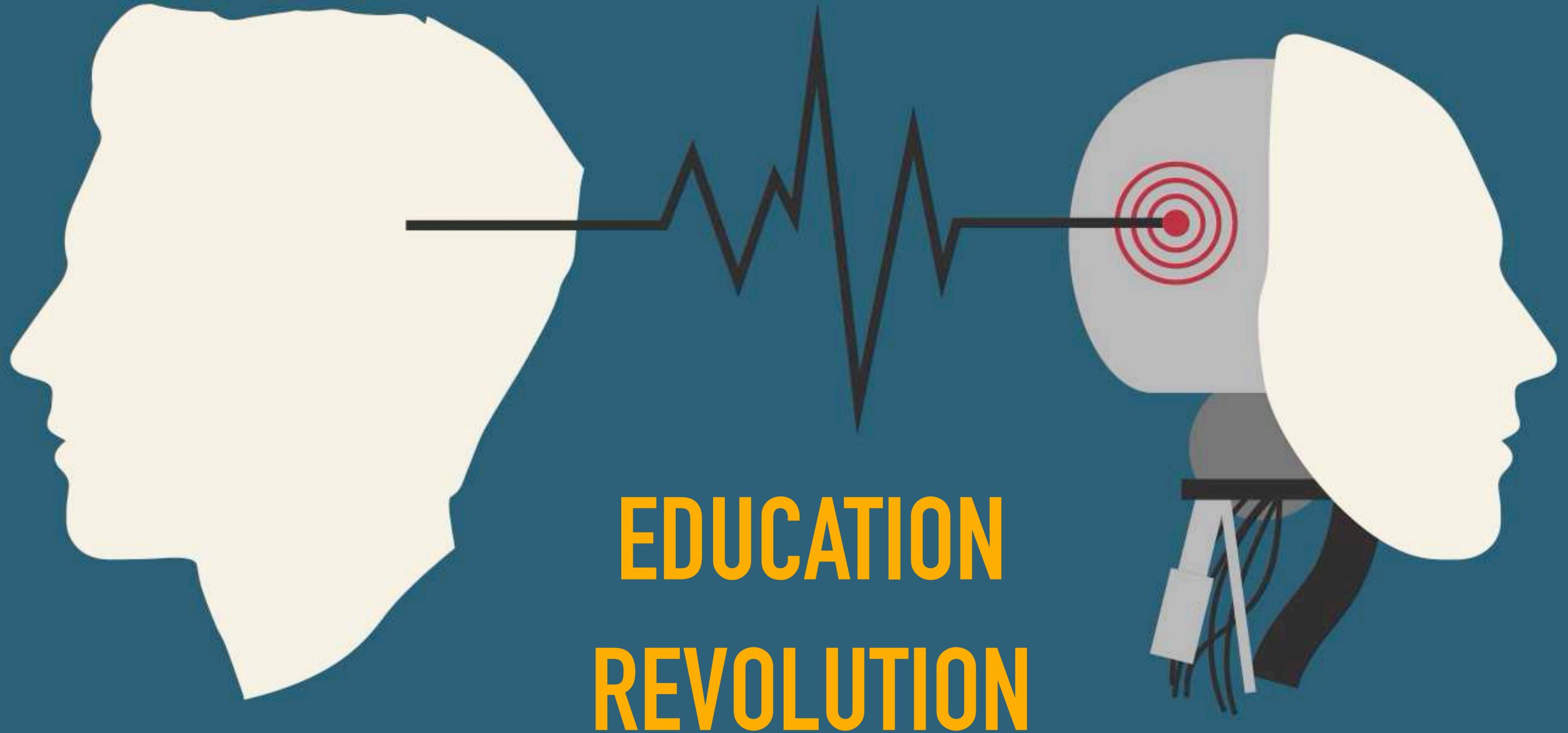


THE HUMAN  
RENAISSANCE

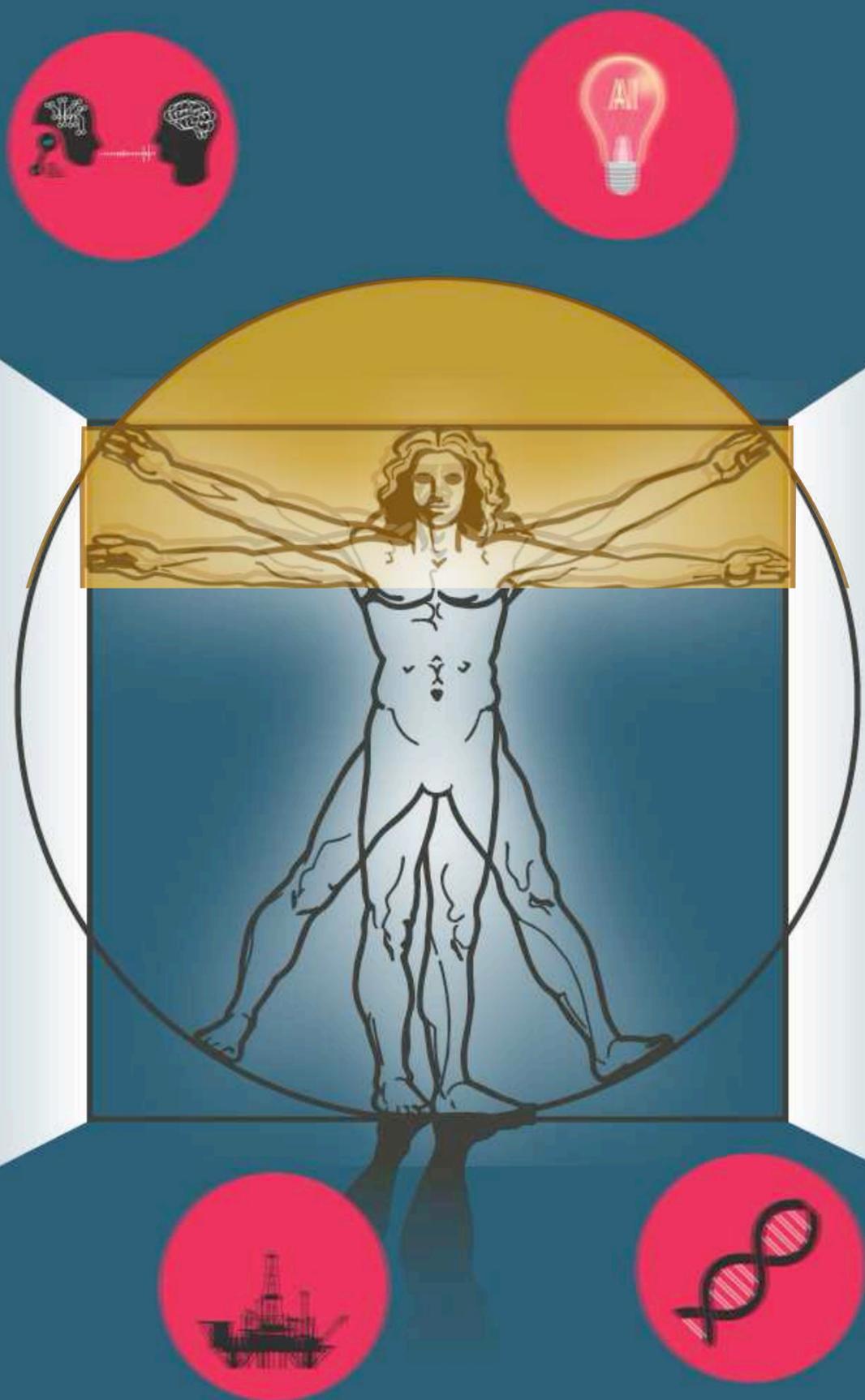
SUSTAINABILITY  
REVOLUTION



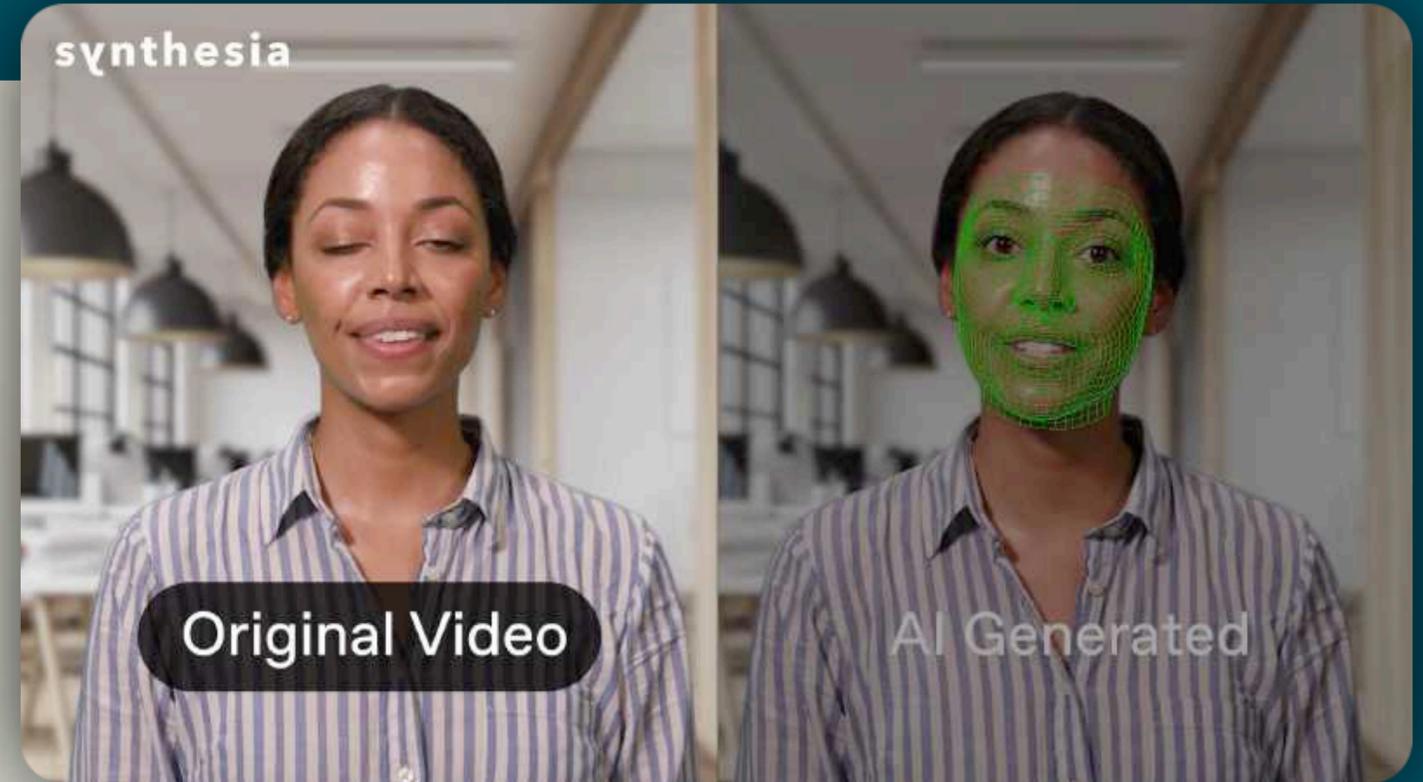
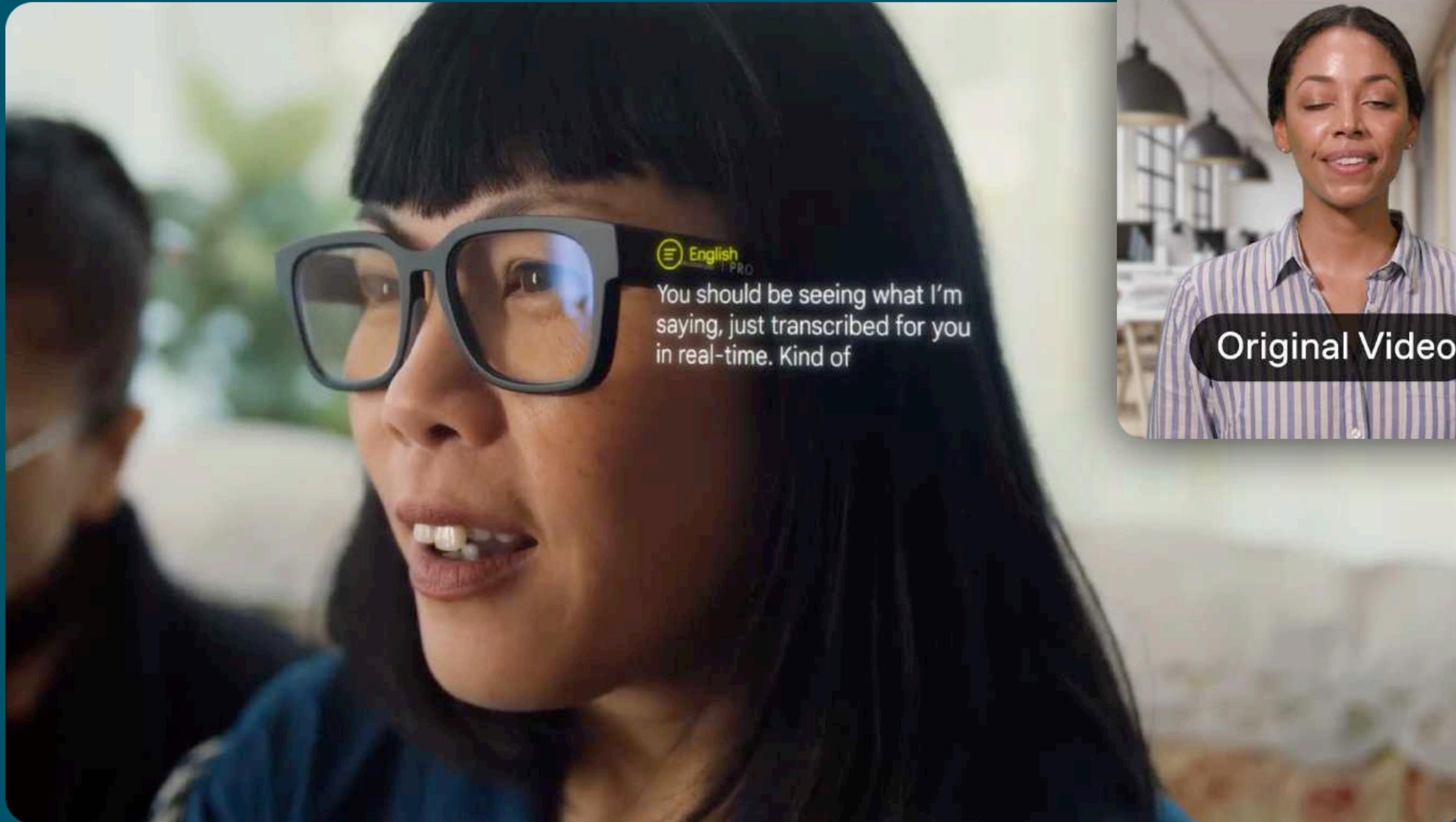
# Humans ☯ Machines (HI and AI)



**EDUCATION  
REVOLUTION**



# Technology is no longer 'stupid' (but neither is it 'LIKE HUMANS')

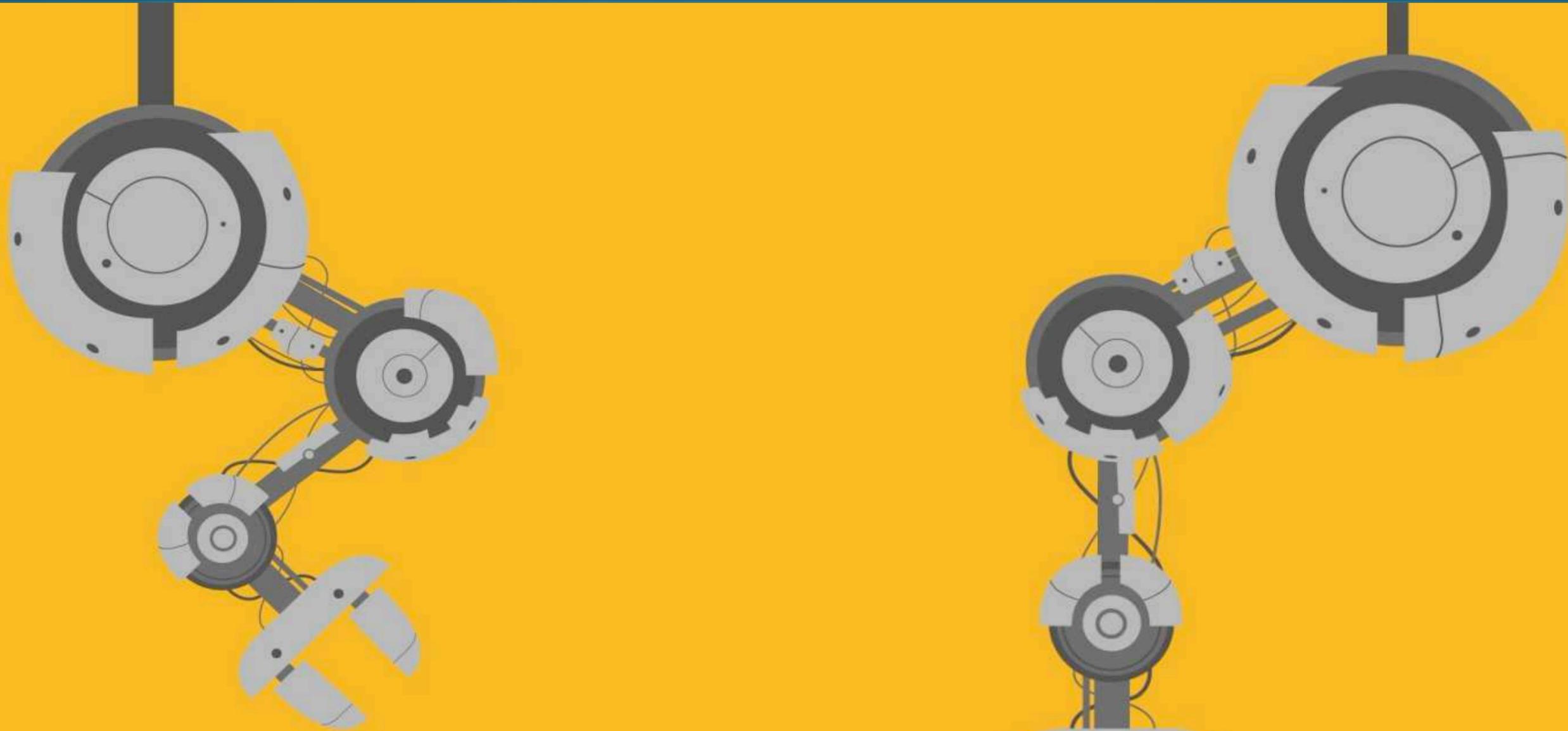


Anything that **can be** digitized, automated or virtualised, will be: The END OF ROUTINE\*



R O U T I N E

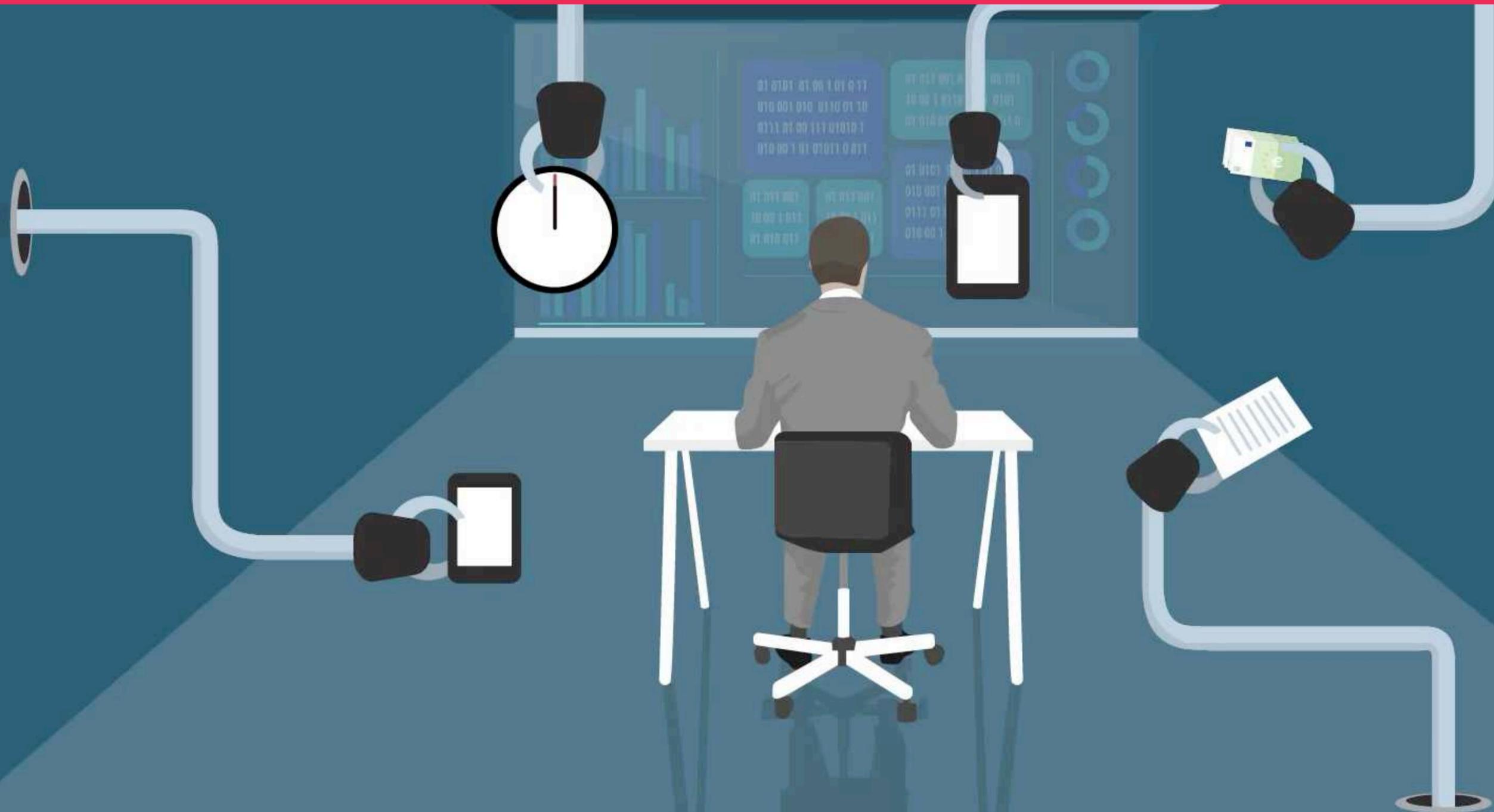
**DATA, INFORMATION, LOGIC and EXPLICIT KNOWLEDGE will become abundant**



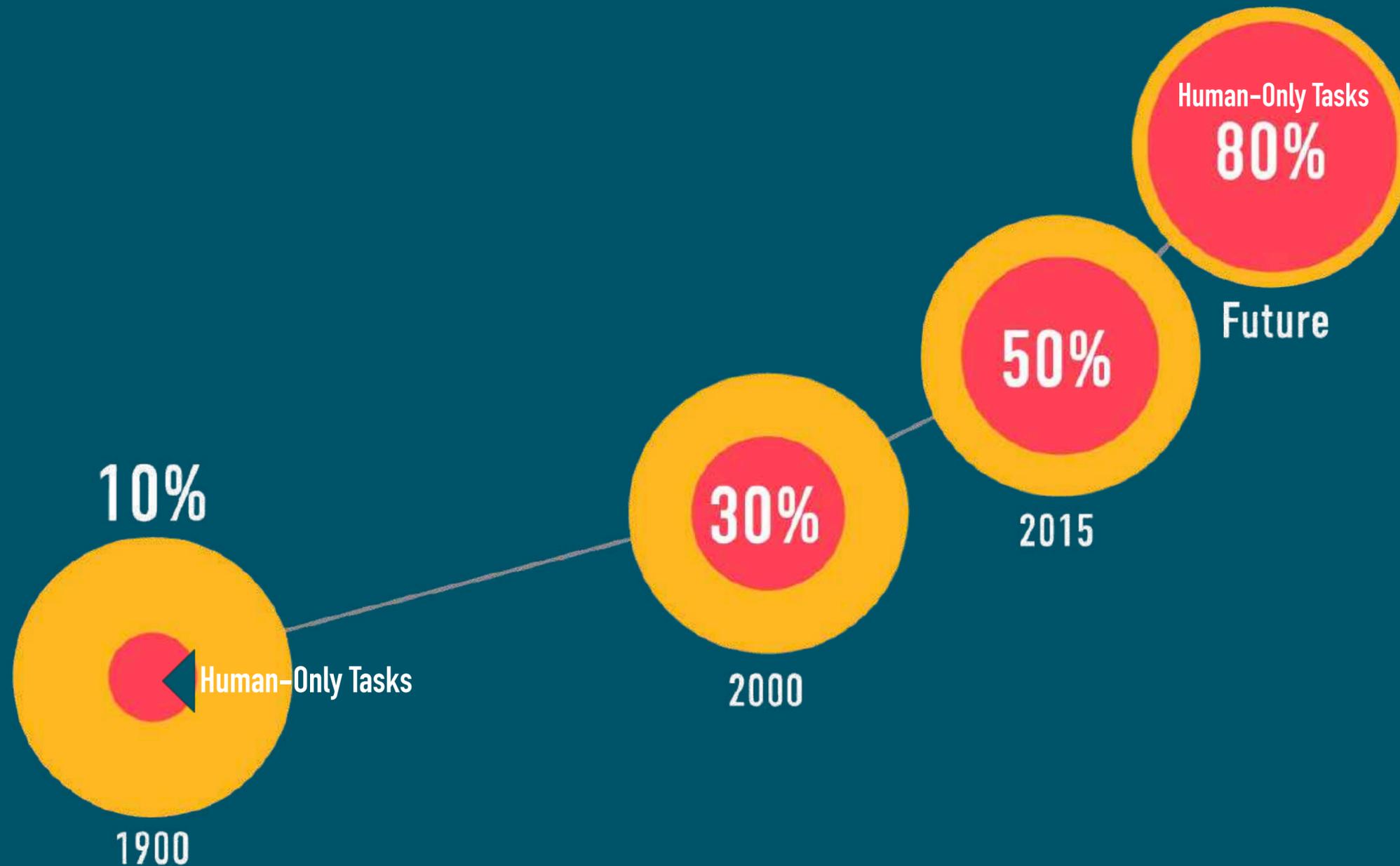
**ABUNDANCE**

# If you work like a robot, a robot will take your job!

## And if you LEARN like a robot, you will end up working for THEM



# As machines become more 'intelligent' and take over most routines, HUMAN-ONLY attributes will become invaluable \*



- ▶ Societal Risk Manager
- ▶ Ethics Officer
- ▶ Data Quality Supervisor
- ▶ Nature Deficit Therapist
- ▶ Job & Training Inventor
- ▶ HI / AI Interface Manager
- ▶ Climate Change Actionist
- ▶ Rewilderer / Nature Agent
- ▶ Long-Term Thinker

An estimated 70% of all new jobs in 2030 haven't even been invented yet  
(and neither have the degrees and certifications we may need for them)

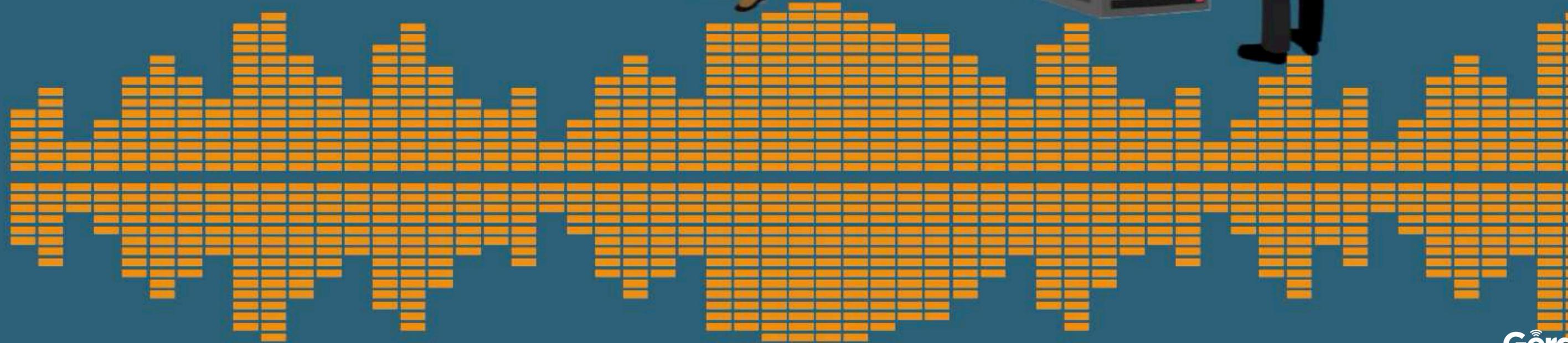
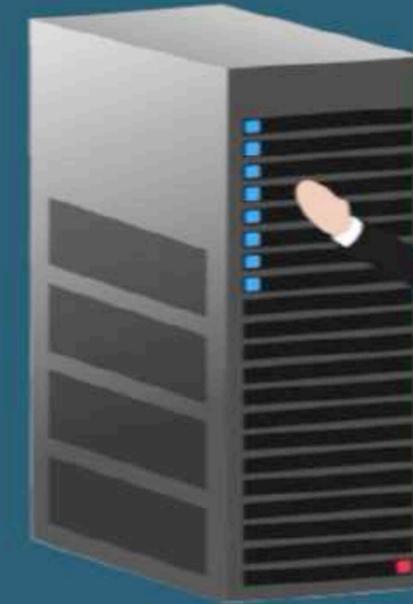
PLAYLIST SCIENTIST



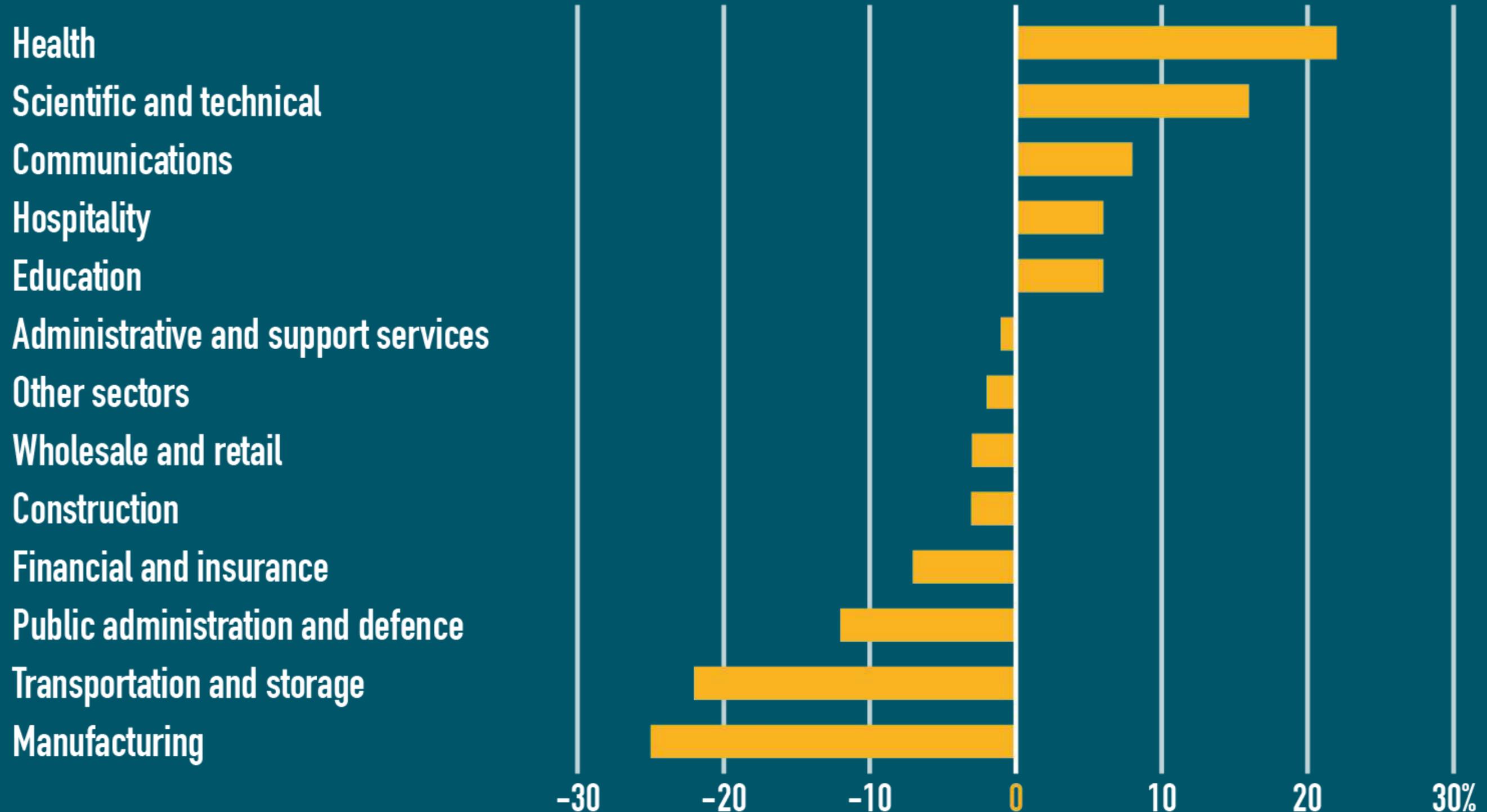
MEME  
MAKER



DIGITAL AMPLIFIER



# Machines are for answers, humans are for questions!



**Human  
Turf aka  
'Meatspace'**



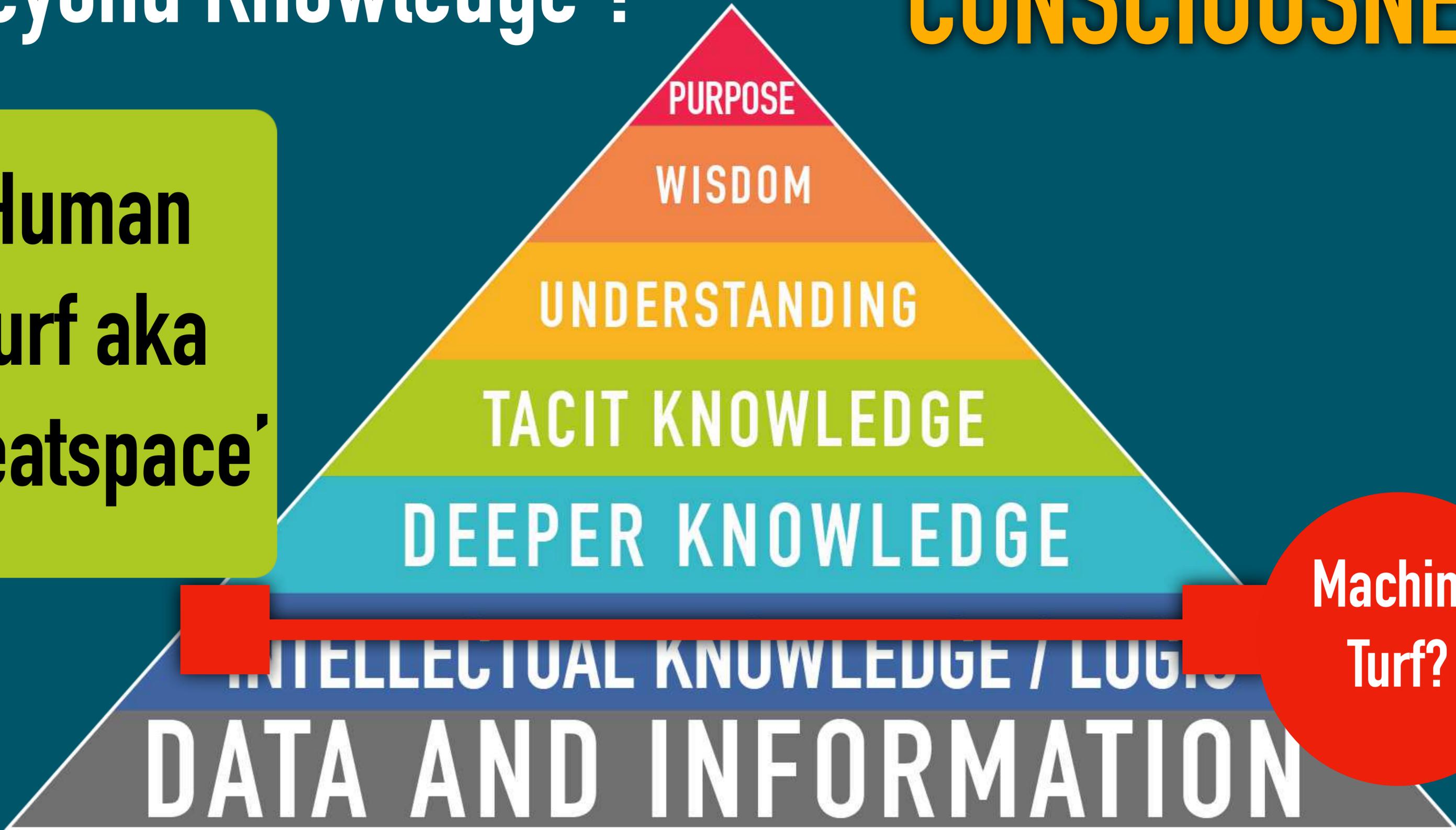
**INTELLECTUAL KNOWLEDGE / LOGIC  
DATA AND INFORMATION**

**Machine  
Turf?**

**'Beyond Knowledge'?**

**CONSCIOUSNESS**

**Human  
Turf aka  
'Meatspace'**



**Machine  
Turf?**

**STEM**

**PROBLEM-BASED LEARNING**



**HREI**

**S**cience  
**T**echnology  
**E**ngineering  
**M**athematics



**H**umanity  
**E**thics  
**C**reativity  
**I**magination

# Unlock Skills **AND** Unlock MINDS + BODIES

EMOTIONS

INTUITION

CREATIVITY

COMPASSION

IMAGINATION

MYSTERY

ETHICS

VALUES

EMPATHY

CONSCIOUSNESS



From a focus on **EFFICIENCY** and **PERFORMANCE** towards . . .

**Human Agency**

**Consciousness**

**Imagination**

**Intuition**

**Compassion**

**Empowerment**

**Resilience & Agility**

**Unorthodoxy**

**Creativity**

**Entrepreneurship**

**Courage**



# Nature Deficit Disorder



NATIONAL BESTSELLER

## Last Child in the Woods

The Book That Launched an International Movement

Saving Our Children from Nature-Deficit Disorder

"An absolute must-read for parents."  
—THE BOSTON GLOBE

**RICHARD LOUV**  
RECIPIENT OF THE AUDUBON MEDAL

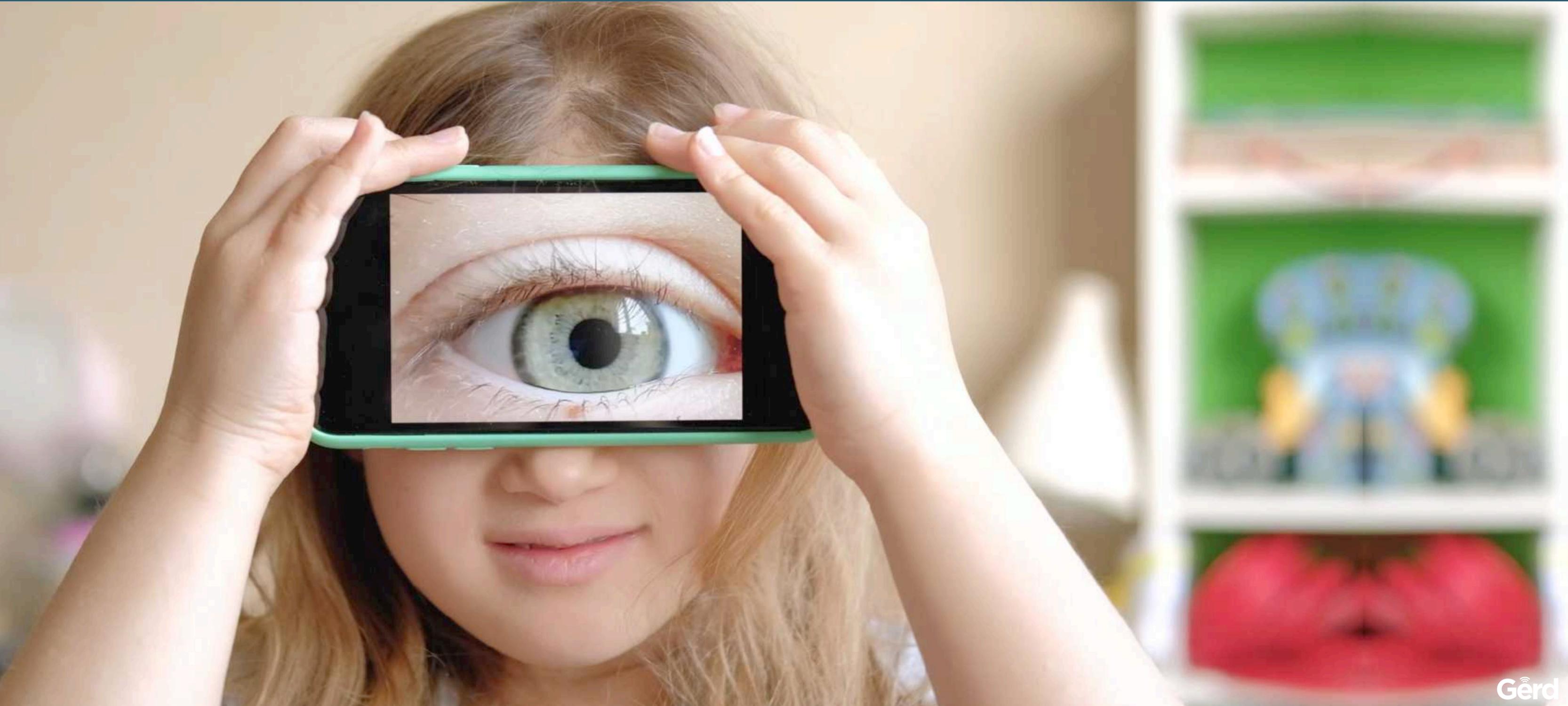


**“It’s about a time when immersive digital worlds become the primary way we live our lives”**





**It's about living our ACTUAL lives to the fullest extent possible and supporting this effort with amazing tools i.e. technologies (Gerd)**



# Education Technology by 2030

**Flexible Delivery (IRL/Virtual hybrid), globally and instantly**  
**Language translation tools / NLP finally becoming useful**  
**Boom of technology-assisted educational programs (AI, VR)**  
**Personalised offerings and fully customised programs**  
**THE NEXT GOOGLE IS IN EDUCATION**

# One hug is worth a thousand zoom calls



# What kind of future do you want for your children?



# Pessimism of the intellect, optimism of the will\* (Antonio Gramsci)



**VELOCITY**



**UNORTHODOXY**



**CO-CREATION**



**AWESOMENESS**

**THE FUTURE IS BETTER  
THAN WE THINK**

# From Instruction to DISCOVERY and CREATION



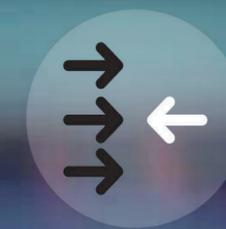
Marshall McLuhan

**“Education must shift from instruction, from the imposing of stencils on brain pens, as it were, to discovery — to probing and exploring and to the recognition of the language of forms.”**

💬 192 ↻ 456 ❤️ 709



VELOCITY



UNORTHODOXY



CO-CREATION



AWESOMENESS

# IMAGINATION



“Imagining the future may be more important than analyzing the past. Companies today are no longer resource-bound, **they are IMAGINATION-BOUND**”

C.K. Prahalad



**Prioritise imagination, intuition and human agency, go beyond efficiency and functioning**



**End the artificial separation of school and life, learning and working, young and old**



**Cultivate character, personality and mindset, not just logic, mental capabilities and IQ**



**Bring degrees and experiences onto the same level, expand vocational trainings**



**Teach less in 'subjects' and more as 'LIFE' – work with problems and projects**



**Pursue FLOW, not download. Not 'just in case' but 'just in time'. Engage don't memorize**



**The key to the Future: AWESOME HUMANS ON-TOP OF AMAZING SCIENCE AND TECHNOLOGY**

**“We are to be architects of the future, not its victims” (Buckminster Fuller)**



**AWESOME HUMANS ON-TOP OF AMAZING SCIENCE AND TECHNOLOGY**