



The next 7 years in technology, business and society



techvshuman.com



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



gerdtube.com

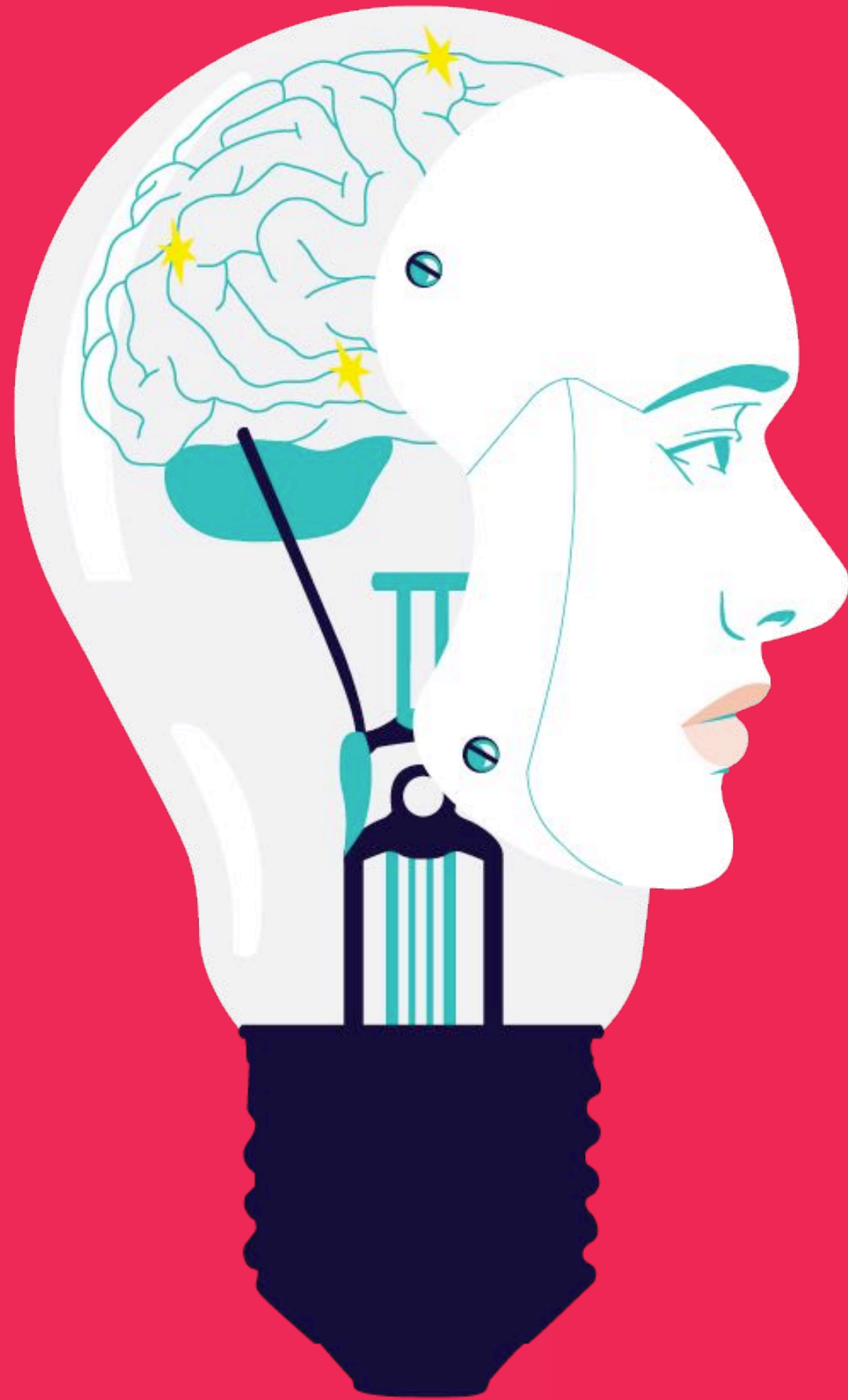


gerdcloud.com

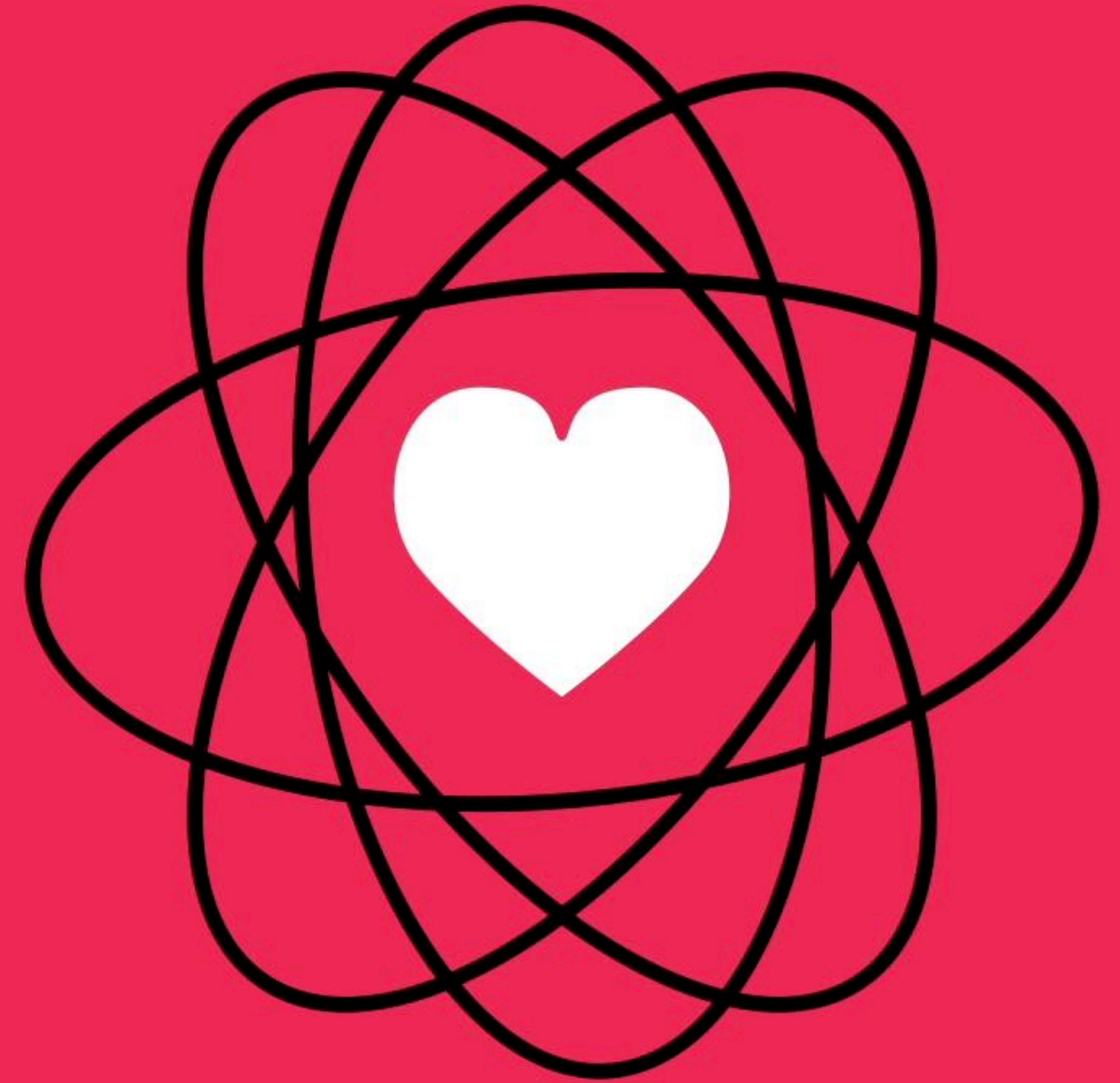


futuristgerd.com

Technology



Humanity



#digitaletics

Artificial intelligence predicts outcome of trials



An international research group has developed a computer program with artificial intelligence that uses machine learning to predict the outcome of trials at the European court of human rights with an accuracy of 79%. The program uses machine learning algorithms to analyse the legal evidence. According to the researchers, the aim is not to replace judges but to analyse evidence to find out in advance which cases are likely to be violations of the European convention on human rights.

**‘Business
as usual’
is ending**



Contract Review Automation

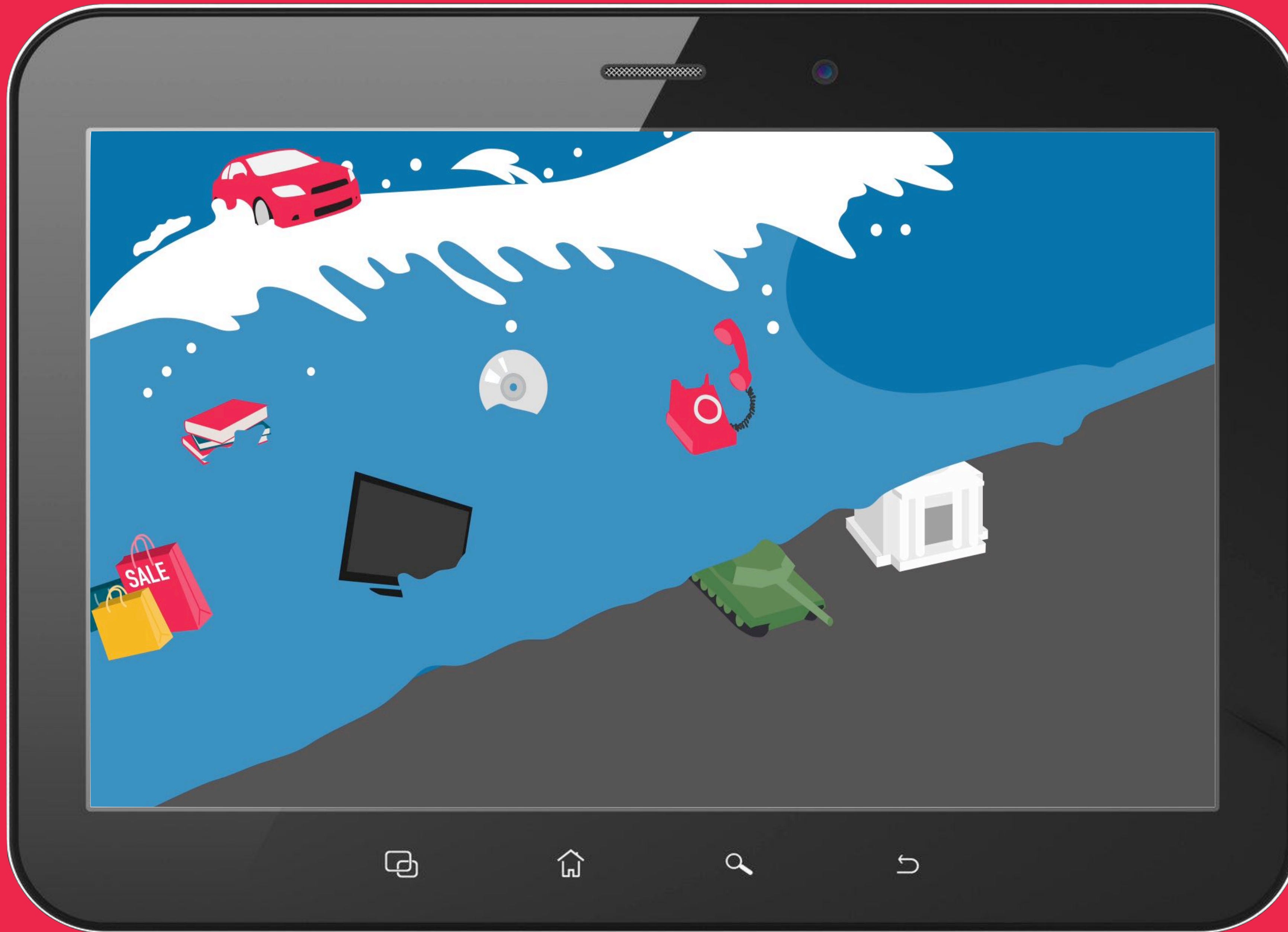
The quickest and easiest way for businesses to review and approve incoming contracts

FIND OUT MORE

REQUEST A DEMO

GREAT COMPANIES RELY ON LAWGEEX

**'Business
as usual'
is ending**



**'Business
as usual'
is ending**

ROSS

Your Brand New Artificially Intelligent Lawyer



Every minute you spend
on legal research is time
you can't bill for.

ROSS is an A.I. lawyer that helps human lawyers
research faster and focus on advising clients.

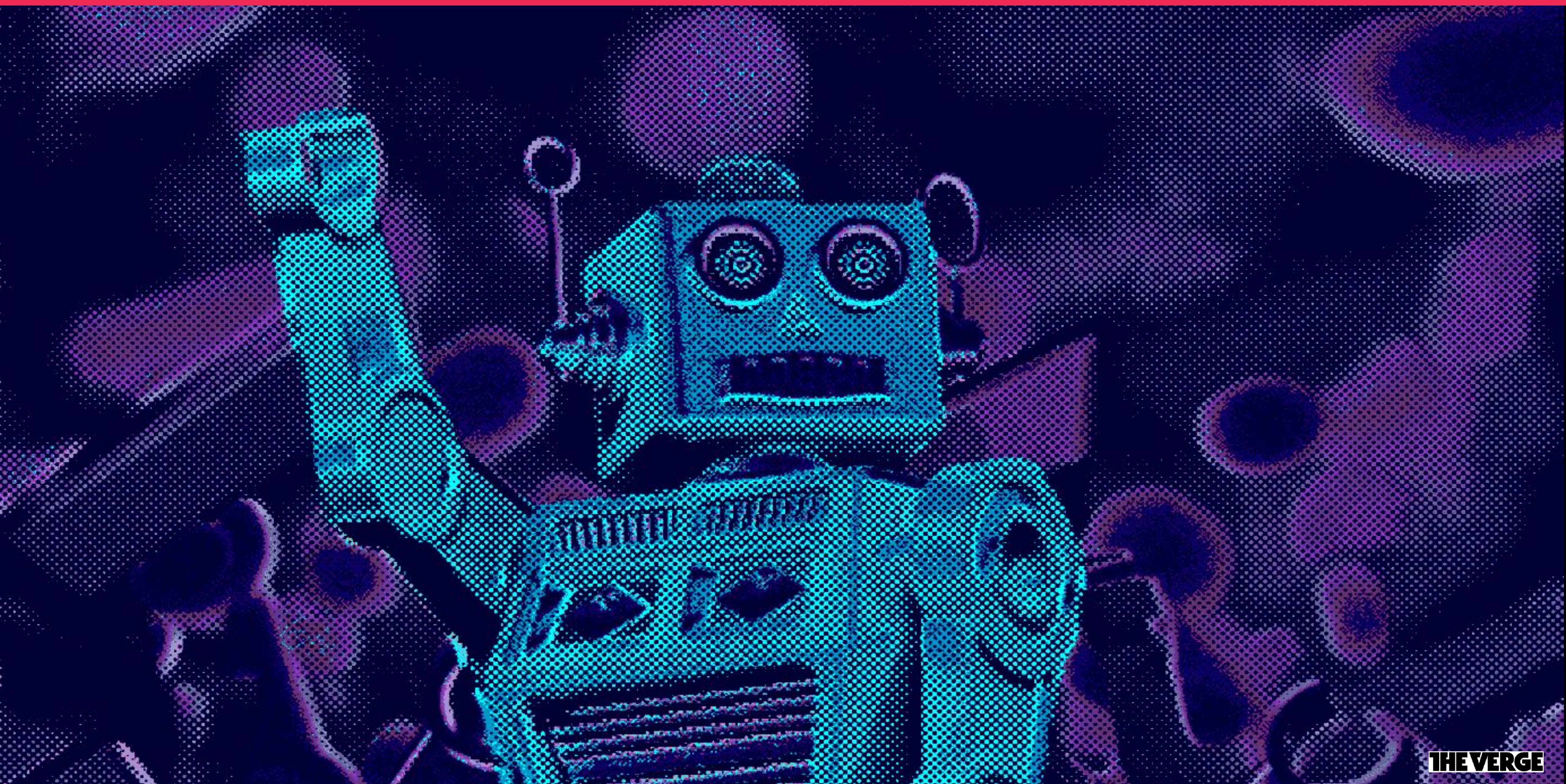
**'Business
as usual'
is ending**





**‘Business
as usual’
is ending**

Humans and machines: new possibilities, new relationships



What can I help you with?

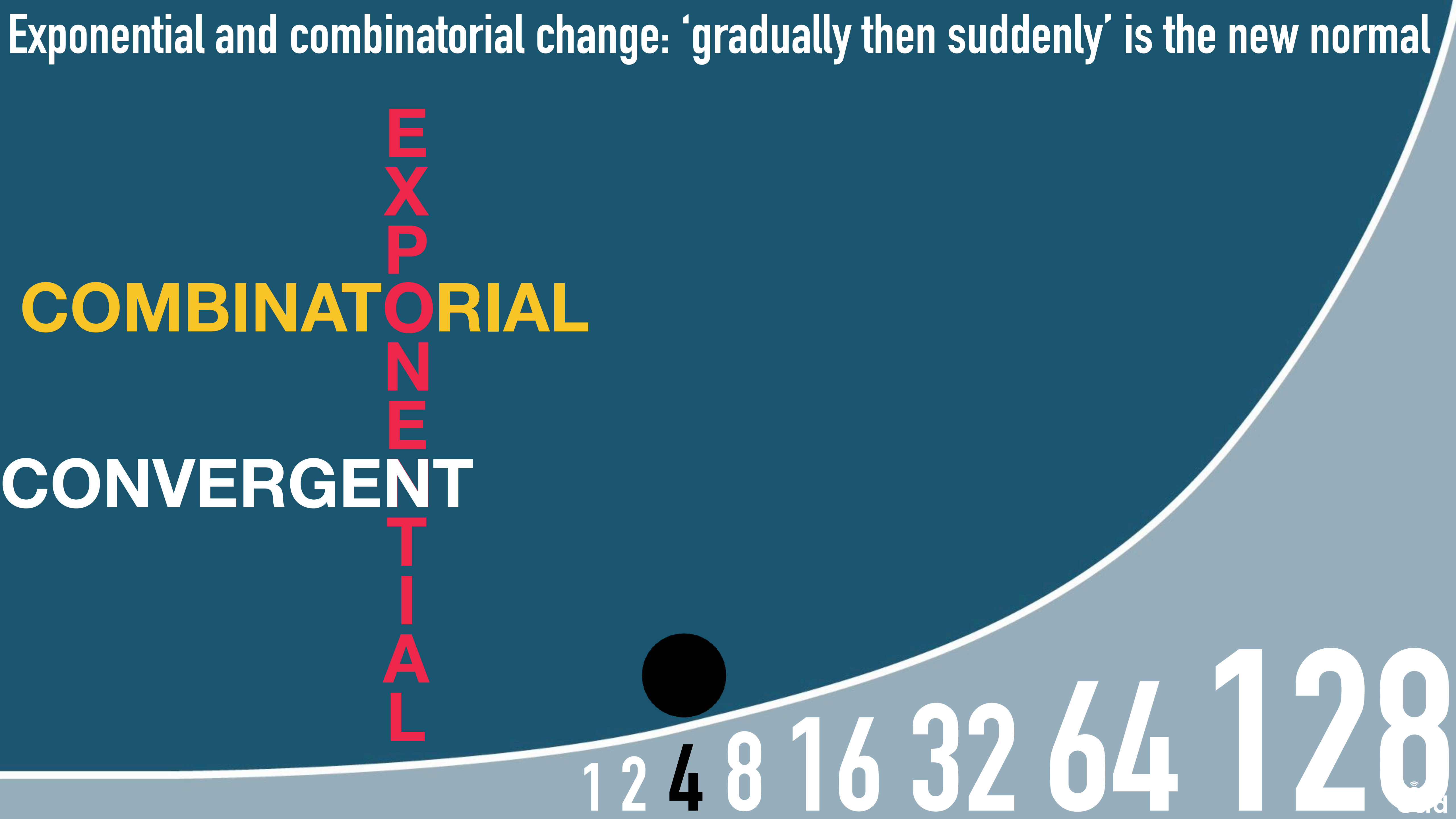


Humans and machines: new possibilities, new relationships



Humans and machines: new possibilities, new relationships



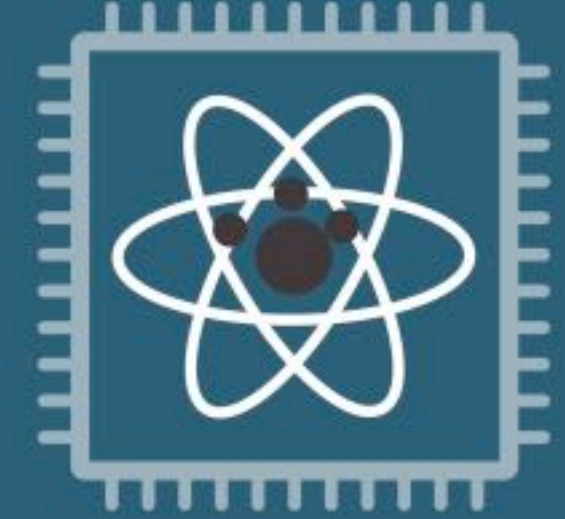


**Humanity will change
more in the next 20
years than in the
previous 300 years**

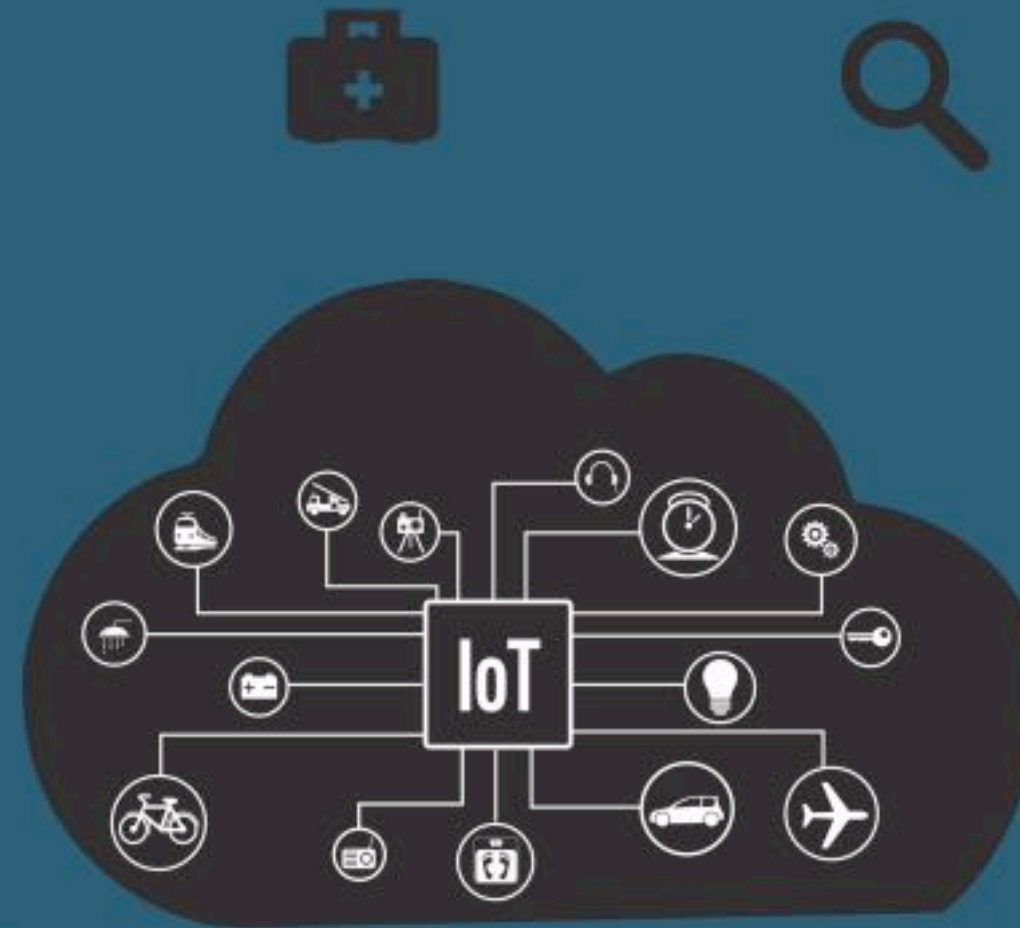


Game-changers

COMPUTE EVERYTHING 



NETWORKED EVERYTHING
CLOUD EVERYTHING



SMART EVERYTHING



DATA EVERYTHING



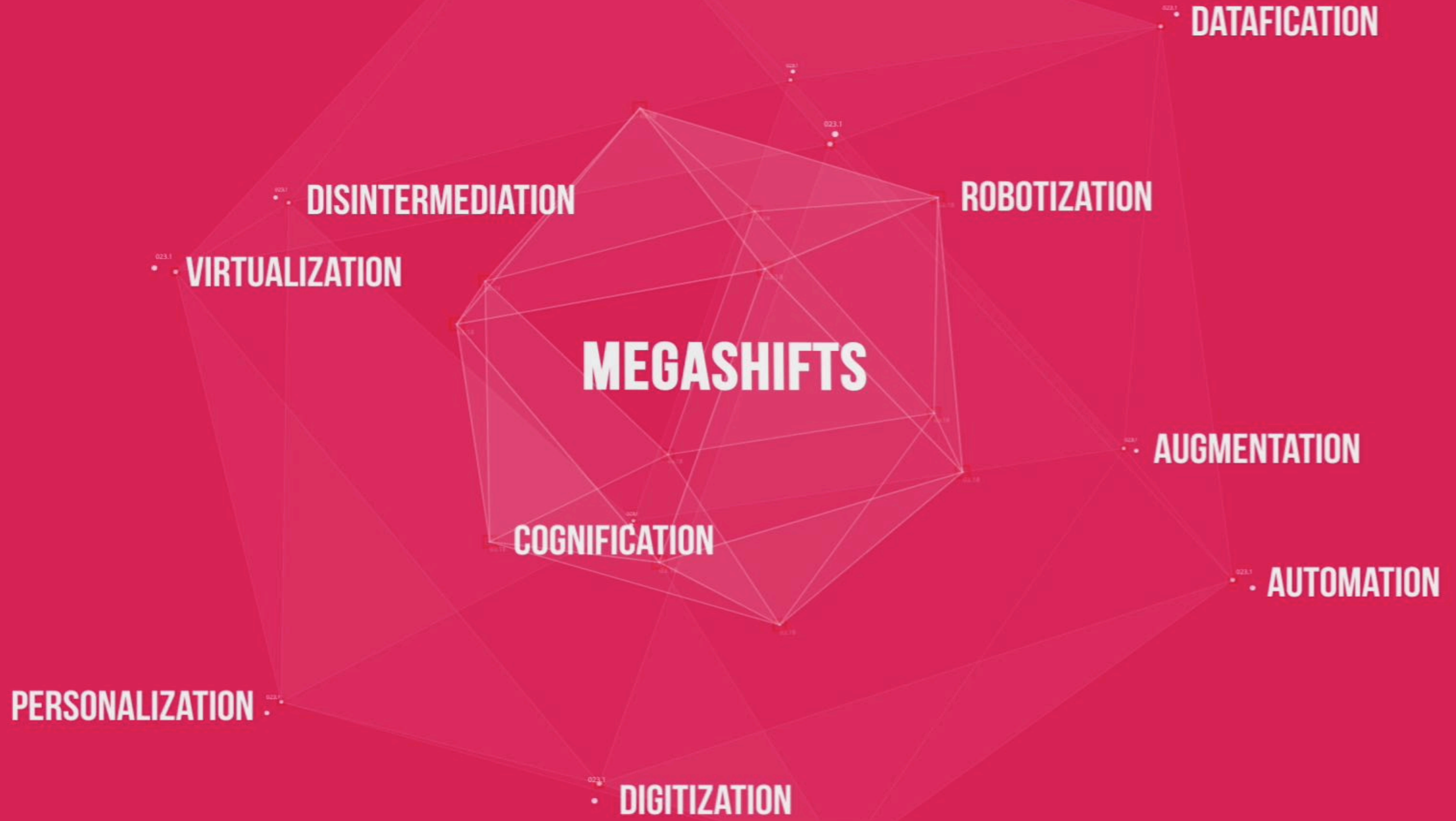


Are humans the
horses of the
digital
era?

McKinsey estimates that 23 percent of a lawyer's job can be automated



A tidal wave of transformative shifts, impacting professional series



Digitization

Datafication

Cognification

Disintermediation

Personalization

Automation

Augmentation



Digitization

Datafication

Cognification

Disintermediation

Personalization

Automation

Augmentation



Amelia

The Most Human AI

Amelia is the most comprehensive AI platform on the market. She can increase the effectiveness of your operations by getting work completed more efficiently than ever before.

Digitization

Datafication

Cognification

Disintermediation

Personalization

Automation

Augmentation



Artificial Intelligence

The Verdict Is In: AI Outperforms
Human Lawyers in Reviewing
Legal Documents

DIGITIZATION

Digitization

Datafication

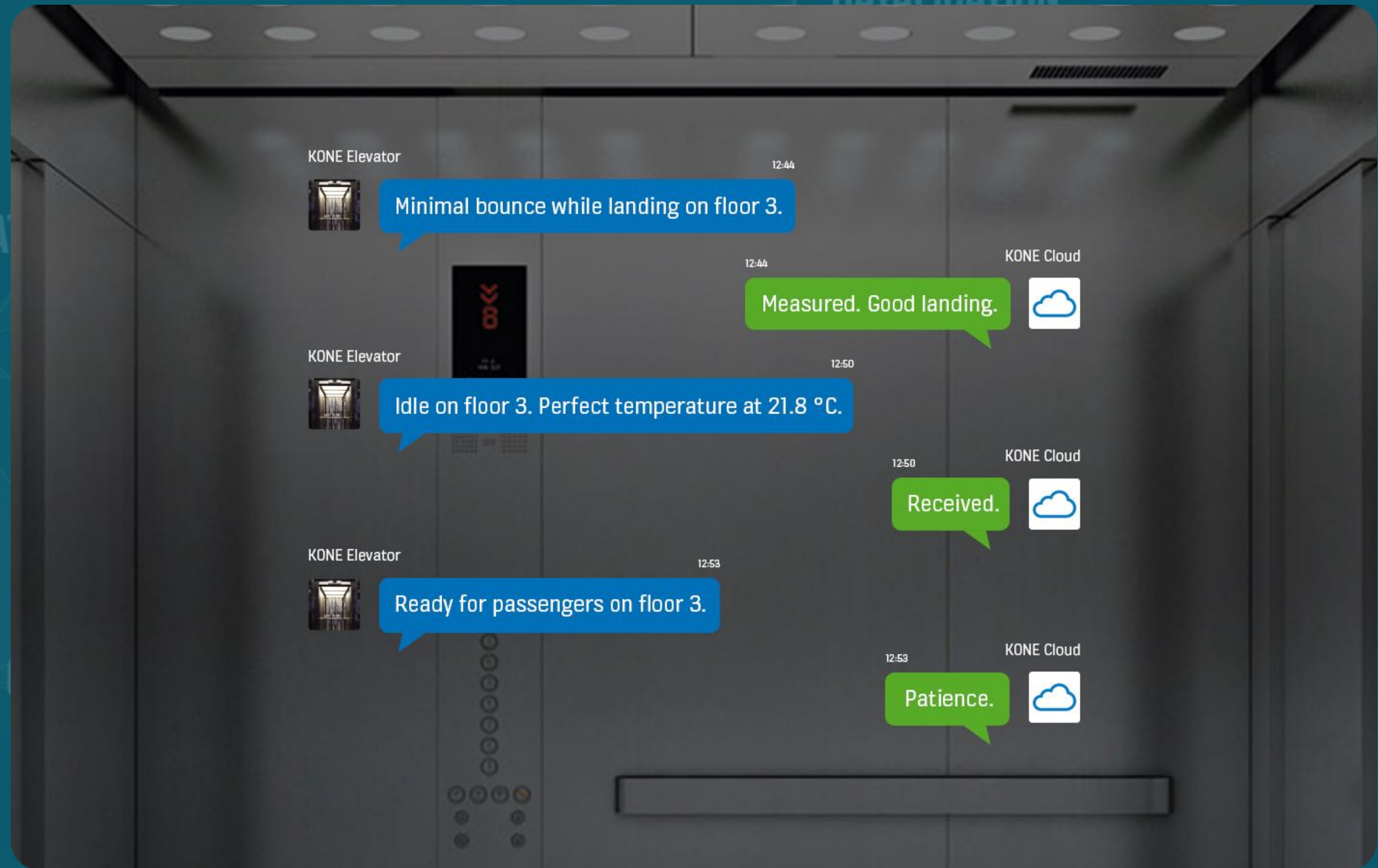
Cognification

Disintermediation

Personalization

Automation

Augmentation



Digitization

Datafication

Cognification

Disintermediation

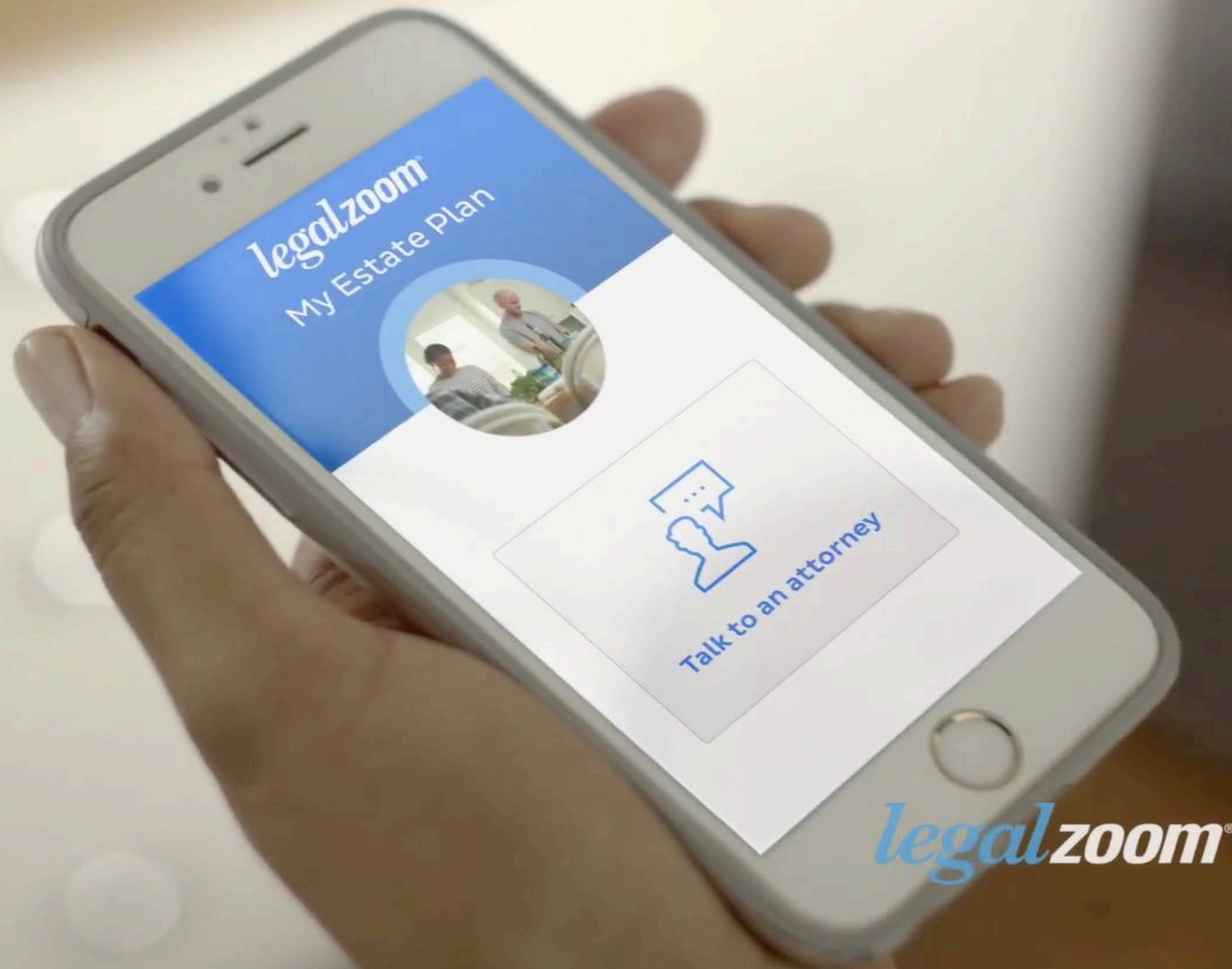
Personalization

Automation

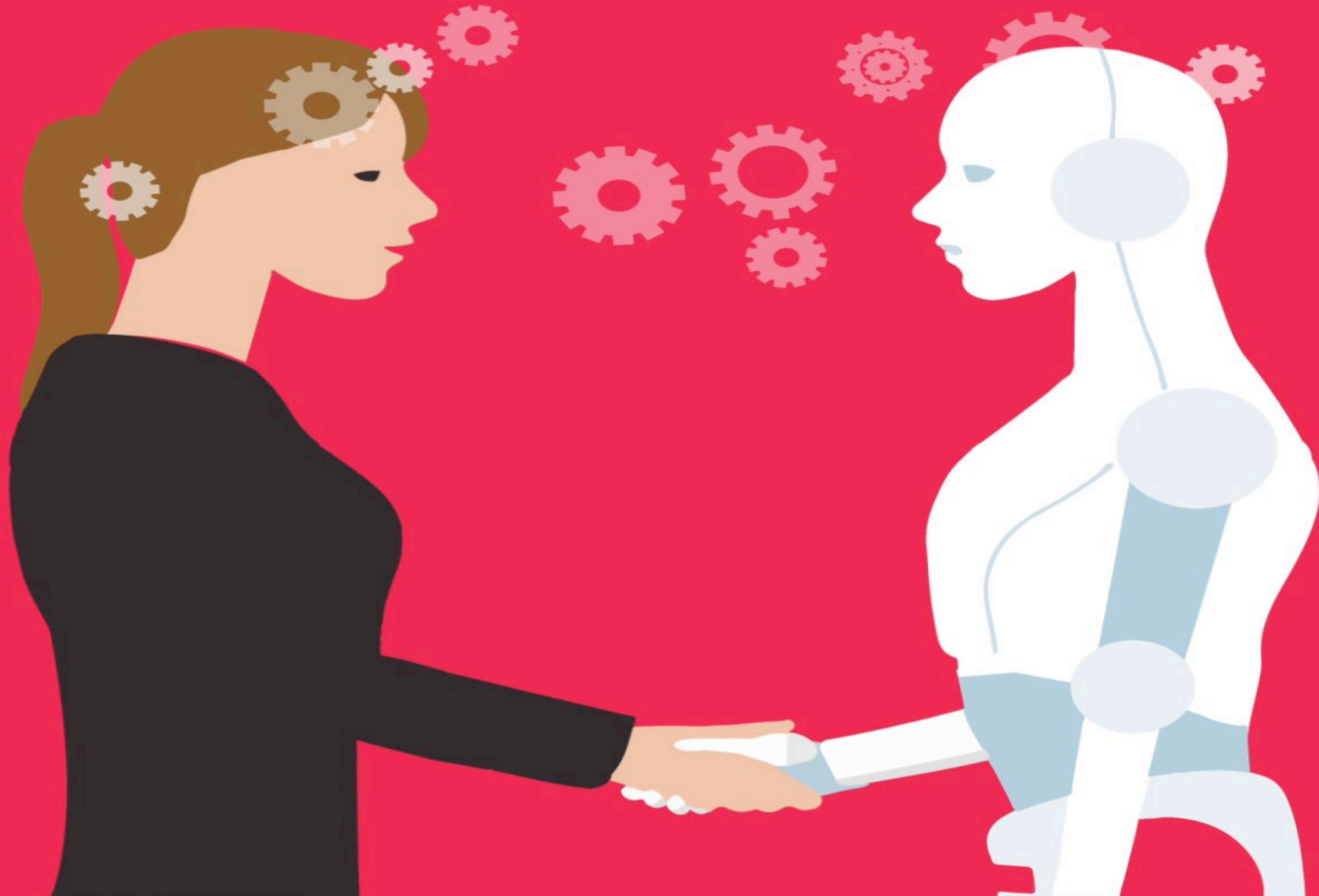
Augmentation



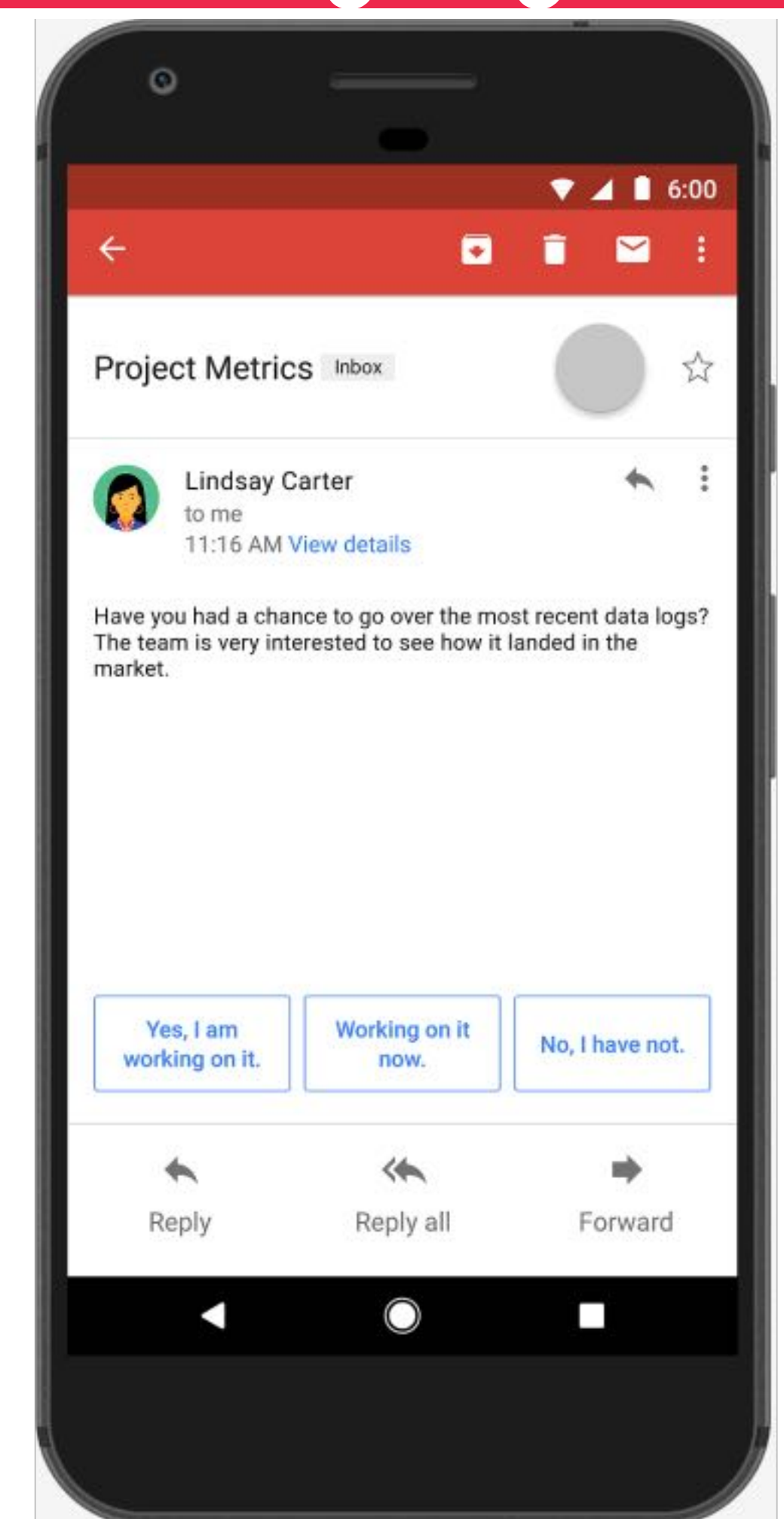
Digitization | Automation | Virtualisation | Mobilisation... LegalZoom example



The rise of smart software and 'intelligent' machines represents a tidal shift in our society

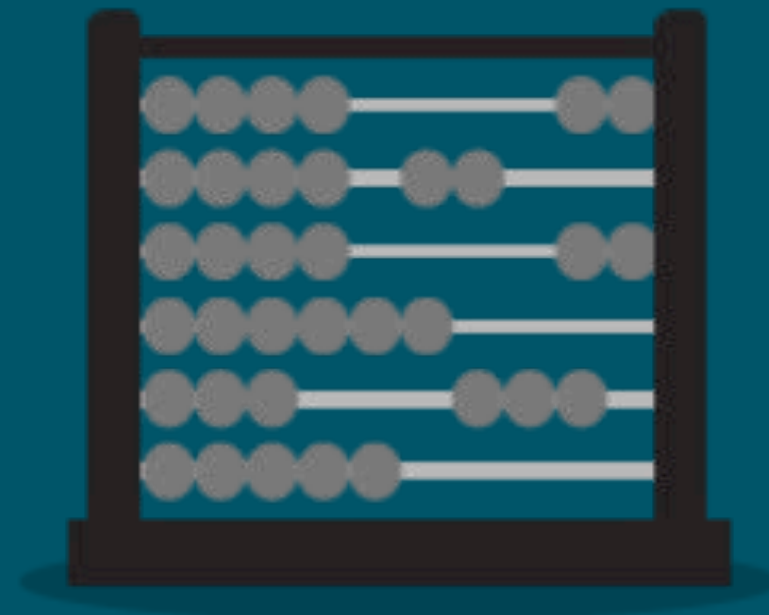


Artificial Intelligence: “Computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages”



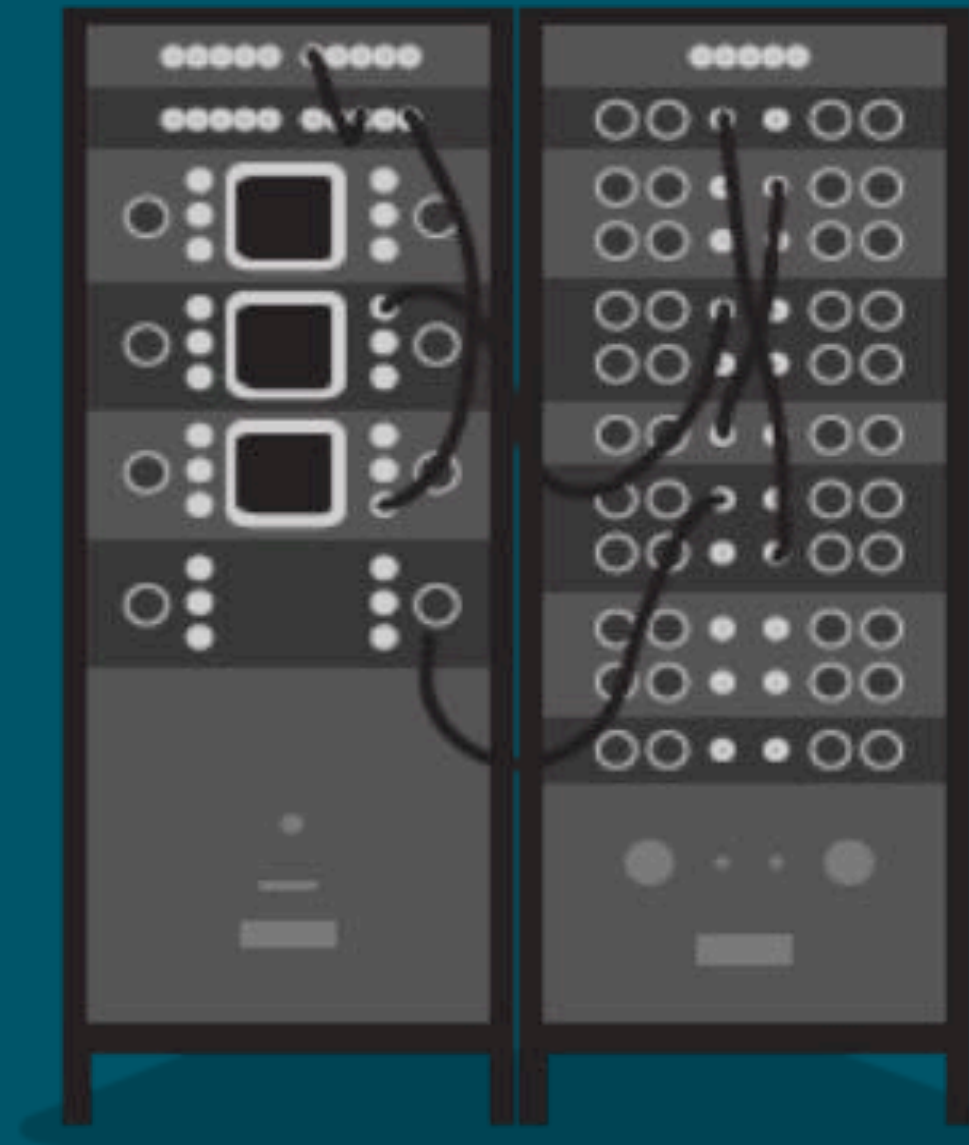
Artificial Intelligence: Computer systems that turn information and data into KNOWLEDGE

(Demis Hassabis @ DeepMind)



*Tabulating
Systems Era*

1900



*Programmable
Systems Era*

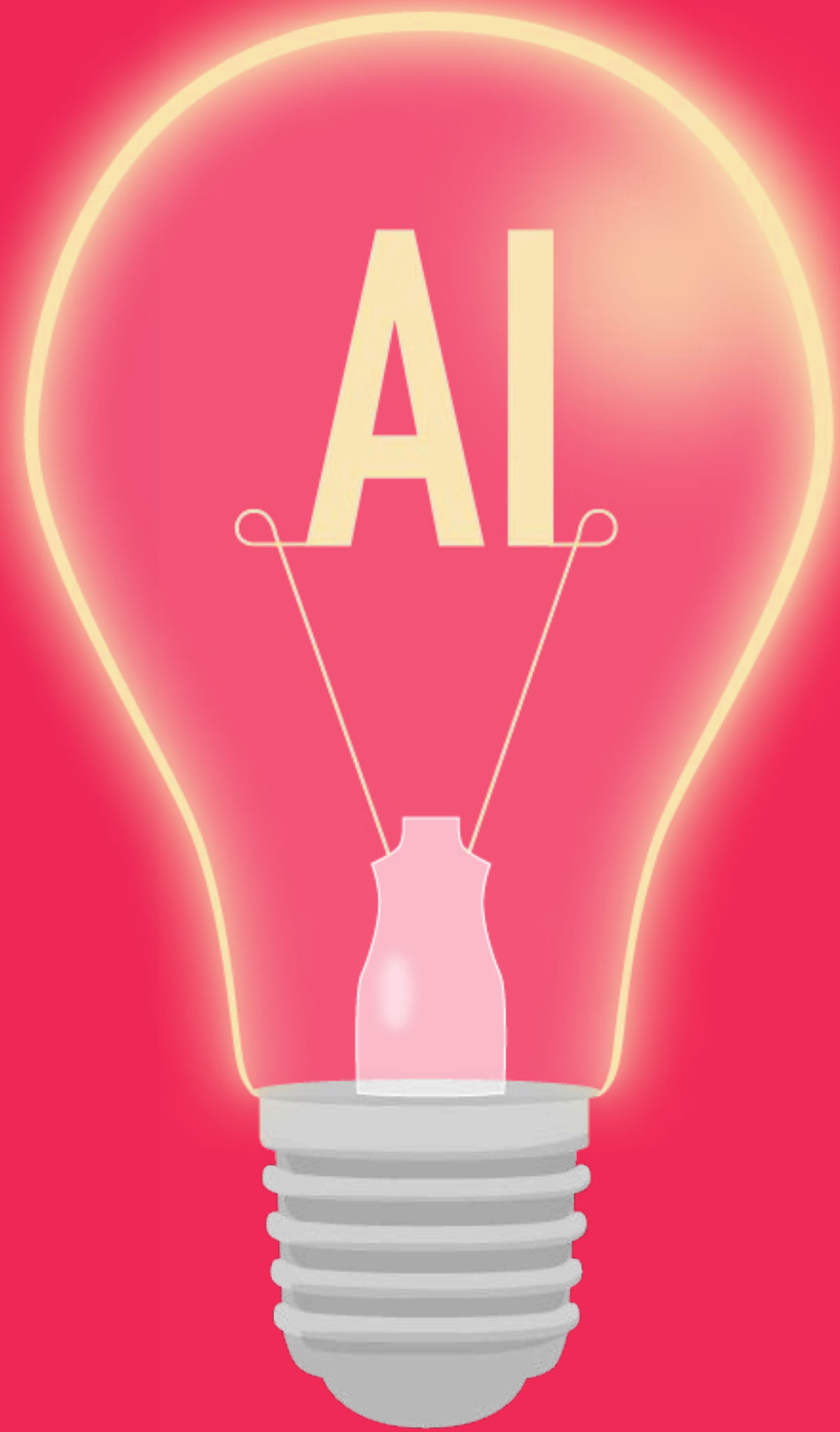
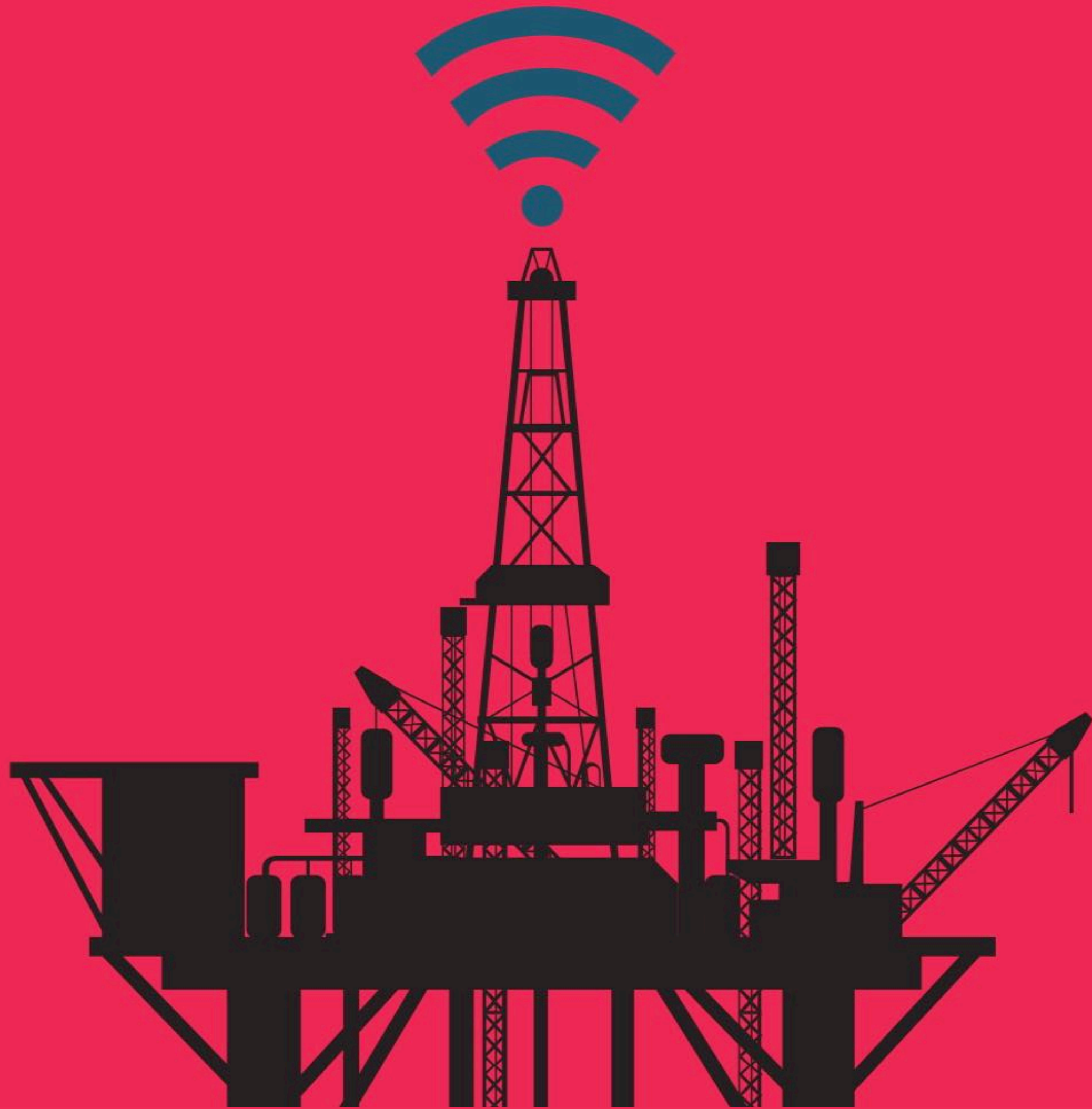
1950



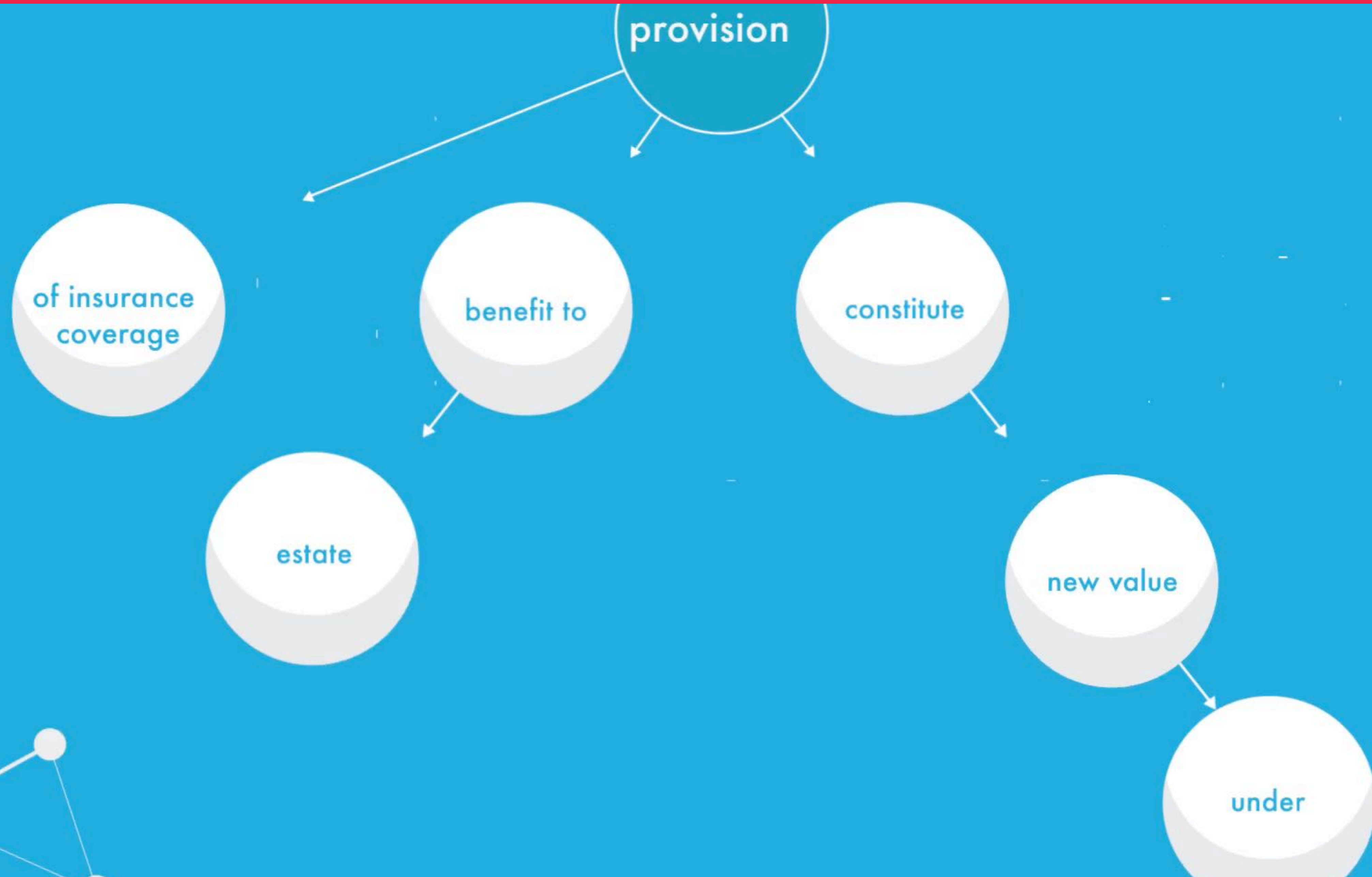
*Cognitive
Systems Era*

2020

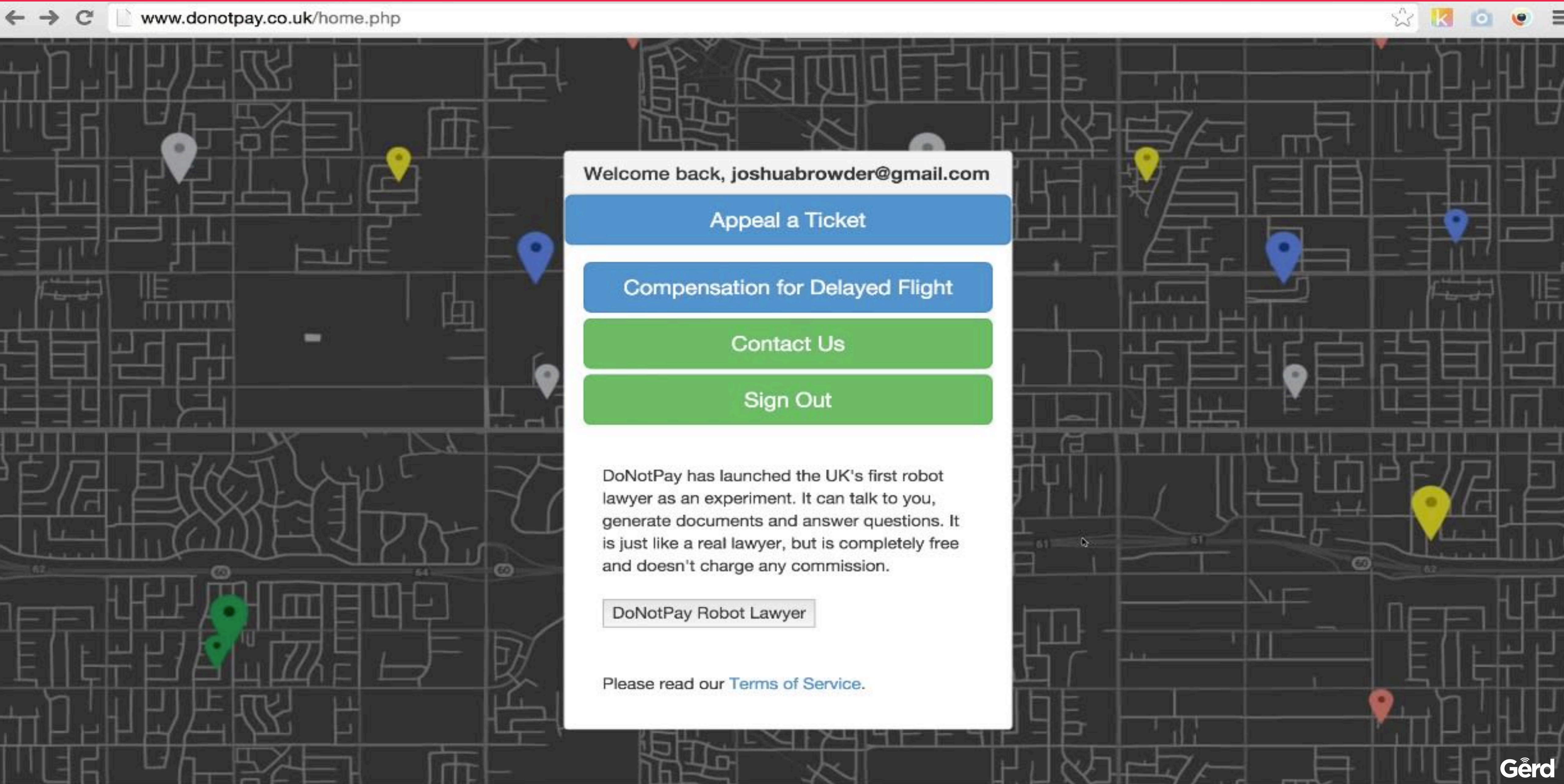
Data is the new oil, and AI is the new electricity



“We will move from ‘mobile first’ to an AI-first world” (Sundar @ Google)

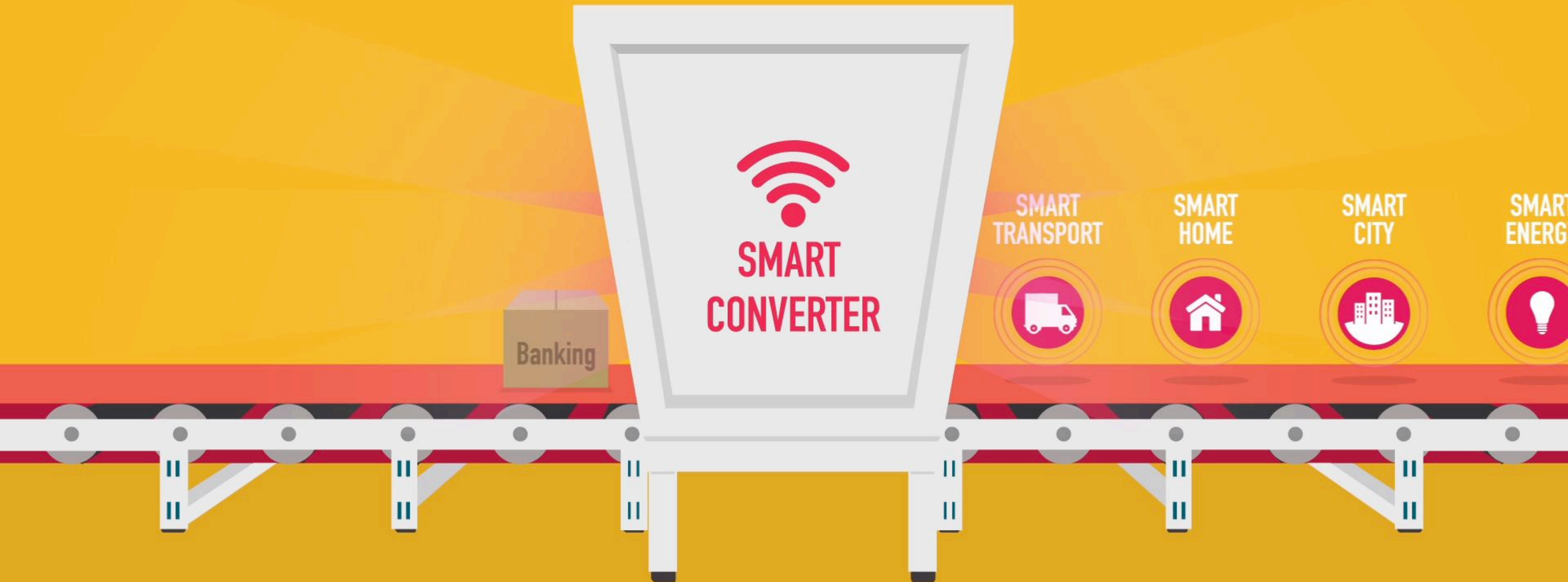


“We will move from ‘mobile first’ to an AI-first world” (Sundar @ Google)



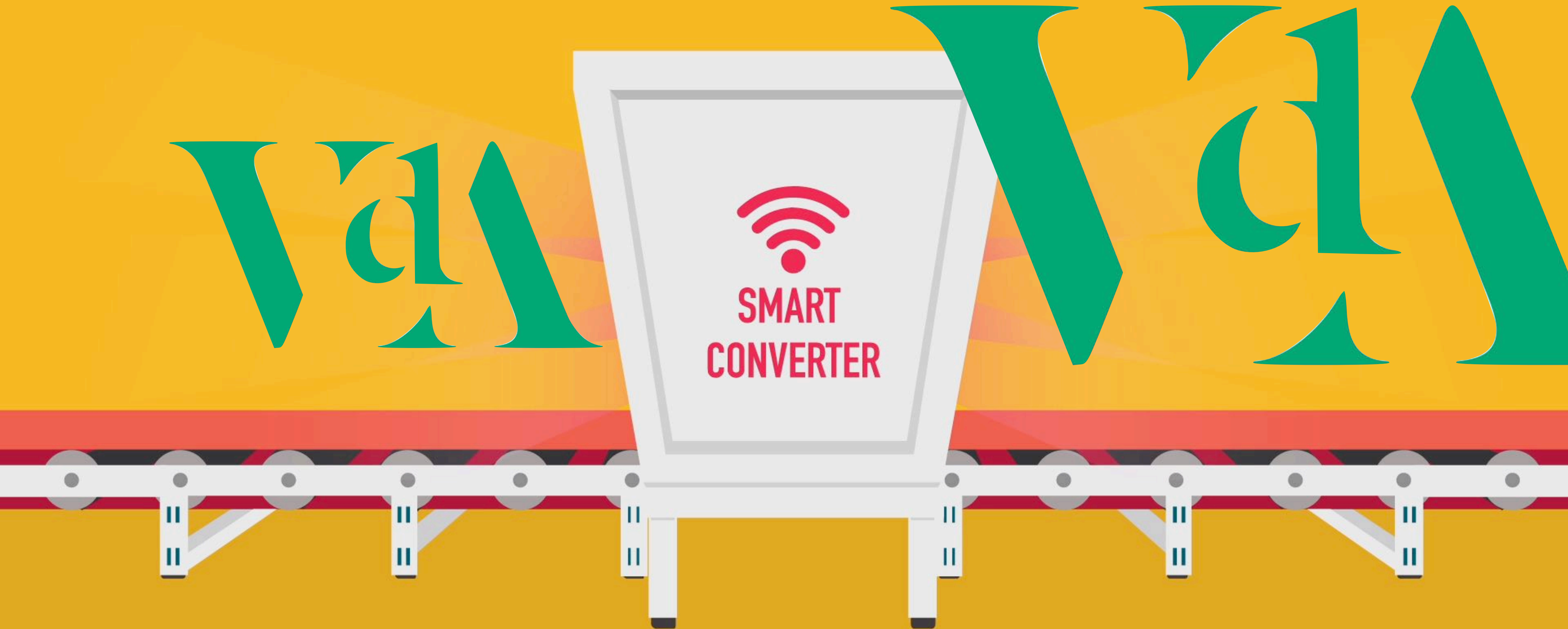
First we electrified, then we digitised, now we cognify

(riffing off Kevin Kelly)



First we electrified, then we digitised, now we cognify

(riffing off Kevin Kelly)



Speaking to machines 'like speaking to a friend'



The Future Of A.I.

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



@StatistaCharts

* From geospatial images

Source: Tractica

statista

The
immediate
opportunity:
Intelligent
Assistance
(IA – not AI)

Gerd

AI

The idea of a computer system that, by reproducing human cognition, allows that system to function autonomously and effectively in a given domain. An AI system demonstrates a kind of intentionality—it initiates action in its environment and pursues goals.

Source: Wikipedia: An Intelligence Augmentation tool

@constant_garden #AugmentInt

The idea that a computer system supplements and supports human thinking, analysis, and planning, leaving the intentionality of a human actor at the heart of the human-computer interaction. Focusing on the interaction of humans and computers, rather than on computers alone.

IA

Source: Wikipedia: An Intelligence Augmentation tool

@constant_garden #AugmentInt

Forget AI. The real revolution could be IA



'Combining machine learning with the existing power of the human brain means we get the best of both worlds'

Image: REUTERS/Thomas Peter

The idea that a computer system supplements and supports human thinking, analysis, and planning, leaving the intentionality of a human actor at the heart of the human-computer interaction. Focusing on the interaction of humans and computers, rather than on computers alone.

IA

“Algorithms outperform human intelligence when it is NOT about understanding emotional states, intentions, interpretations, deep semantic skills, consciousness, self-awareness and flexible intelligence*” (Luciano Floridi)



As machines are starting to acquire knowledge, humans can – and must – move up the food-chain towards understanding, imagination, wisdom...



... move up the food-chain towards understanding, imagination, wisdom...



POSITIVITY



ENGAGEMENT



RELATIONSHIPS



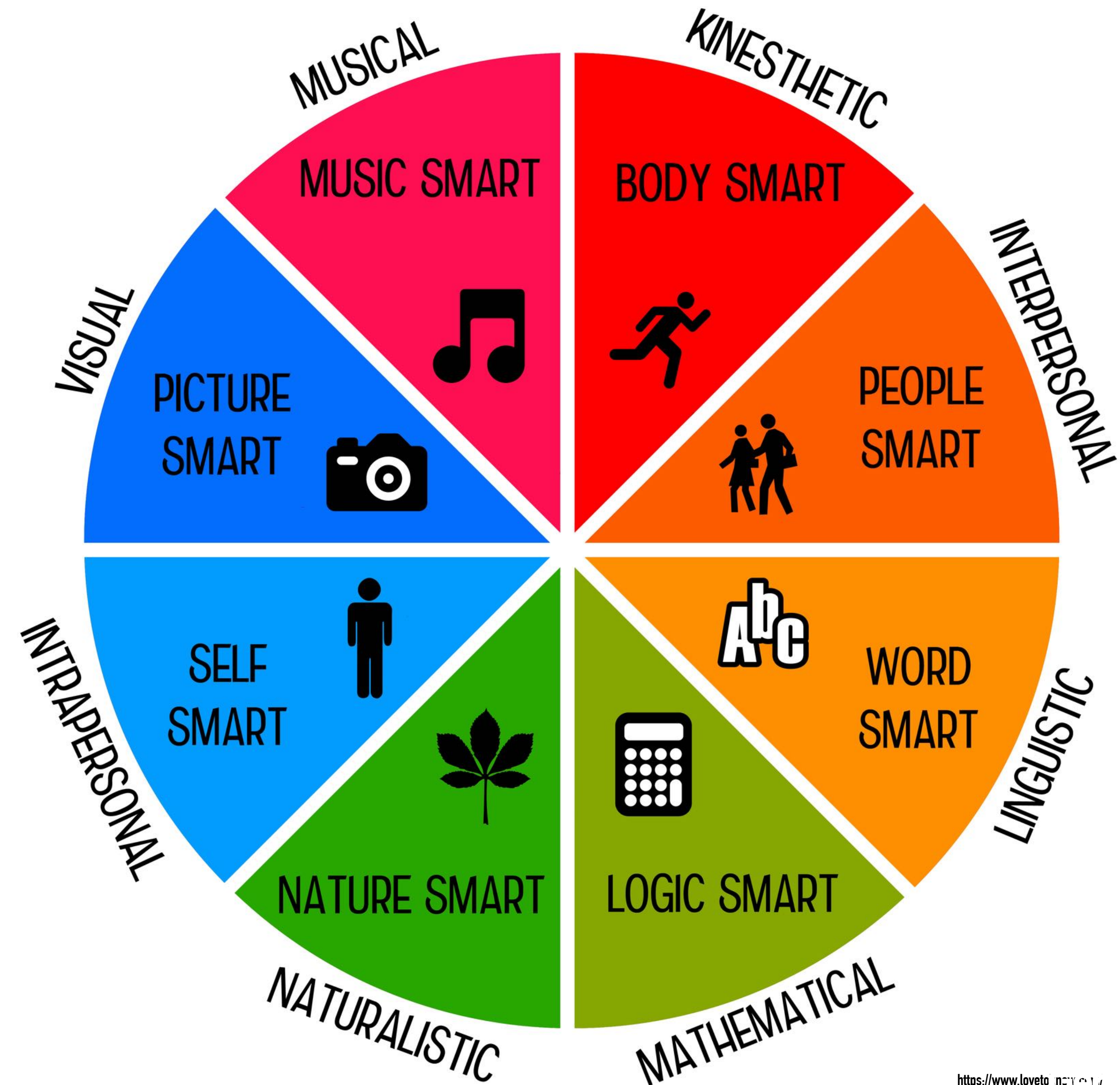
MEANING



ACCOMPLISHMENT

Human intelligence
is not defined by a
single dimension –
“smarter than
humans”
is not a very
useful concept

MULTIPLE INTELLIGENCES



“Never mistake a
clear view for a
short distance”

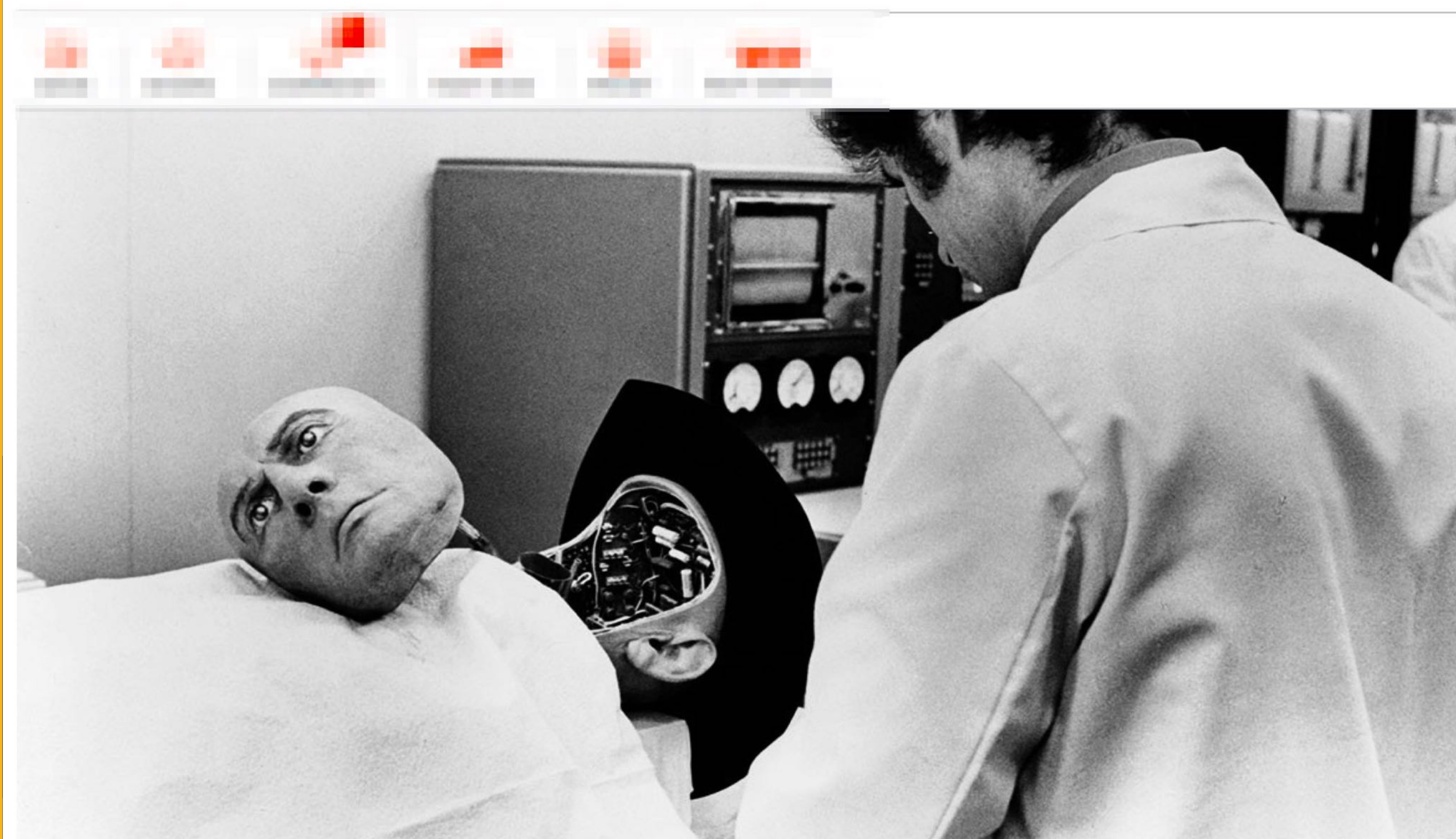
Paul Saffo

INFORMATION & TECHNOLOGY

Technology Will Replace Many Doctors, Lawyers, and Other Professionals

by Richard Susskind and Daniel Susskind

OCTOBER 11, 2016



*-Frey and Osborne
Oxford University*

Gerd



**Machines
don't do
relationships!**

Passion, persuasion, imagination and storytelling will remain key to your future success

CULTURE

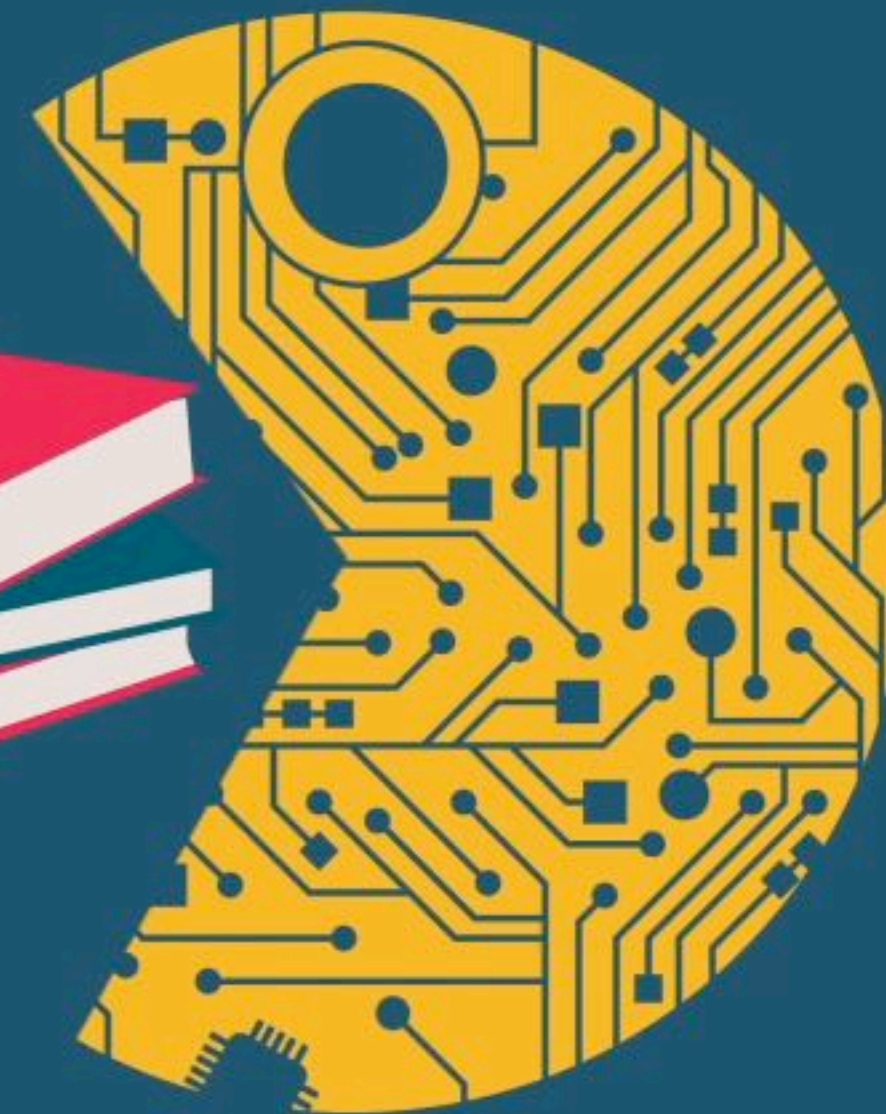
Thought-Leadership in the “Ethics of Technology” (Digital Ethics) is crucial



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

SOFTWARE IS EATING THE WORLD

(Marc Andreessen)



Legal Tech Startups










\$4.7M AVERAGE VALUATION



657 COMPANIES

573 INVESTORS

246 JOBS

Company	Joined	Followers	Signal
 Lewis Wayne Holley Raleigh, NC Lewis Wayne Holley Raleigh, NC Raleigh • Legal Tech	Oct '17	1	-----
 Cotobox Online trademark service Tokyo • Intellectual Property	Oct '17	0	-----
 Legal Creatives Building an innovative legal career a... Dover • Events	Oct '17	1	-----
 NEXAW Coming Soon NEXAW™ The Start ... London • Legal	Sep '17	1	-----
 BDM-Corporate Sales & Alliances Online legal service platform Gurgaon • Legal Tech	Sep '17	1	-----
 LegitQuest AI for making Legal Search Engine New Delhi • Information Services	Sep '17	1	-----
 Crowdjury Buenos Aires Province • Blockchains	Sep '17	1	-----
 Early Neutral Appraisals (ENAp) Predicting Litigation Outcomes Charlotte • Legal	Sep '17	1	-----
 Lawply.com Fast and Easy Compliance due dilig... Bengaluru • Legal Tech	Sep '17	1	-----

Software is eating the law?

The Legal Tech Market Map

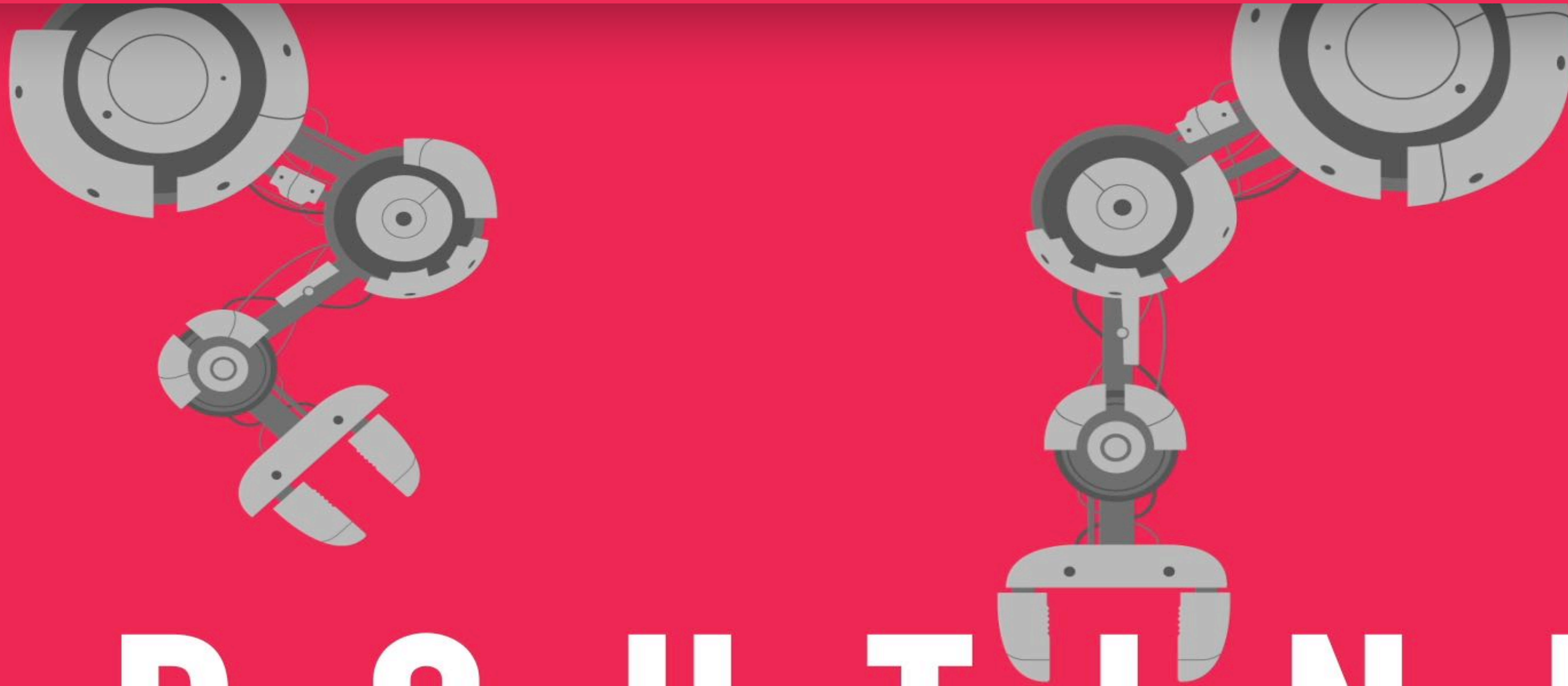


Anything that can be digitized or automated, will be...



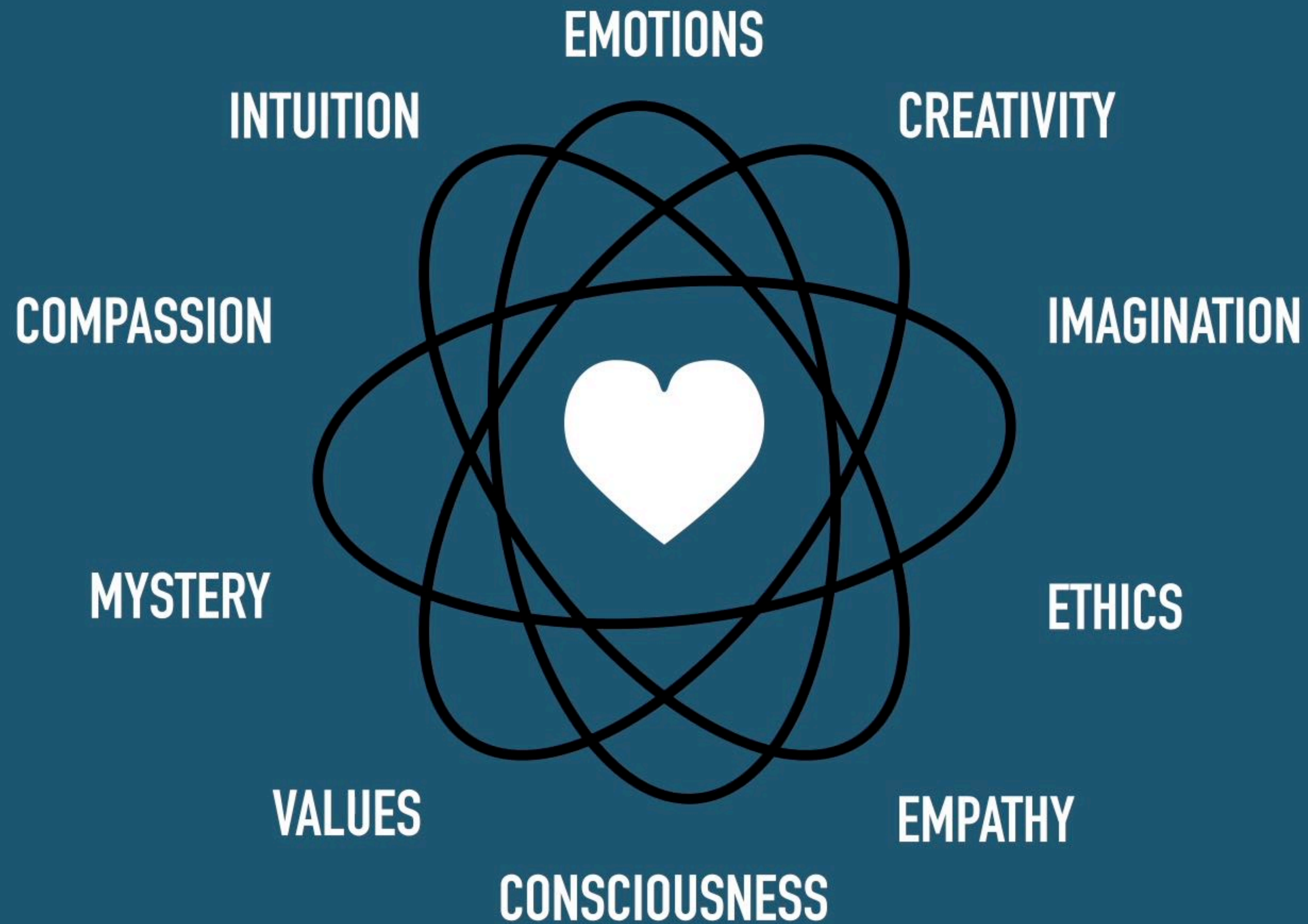
... and the End of Routine is coming

But the end of routine tasks does not mean the end of human work

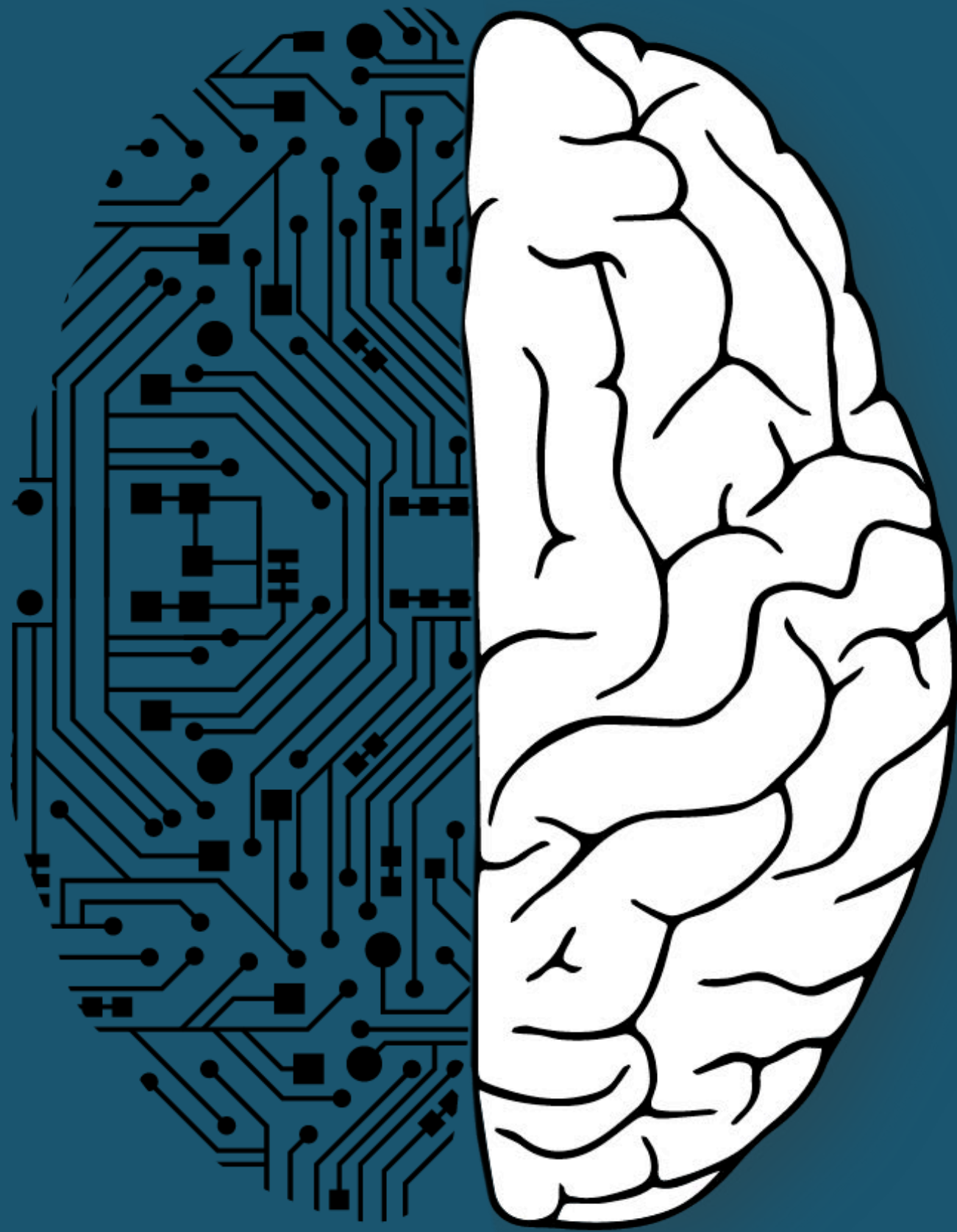


ROUTINE

Anything that cannot be digitized or automated will become much more valuable



New skills, talents and mindsets that every legal professional needs to embrace



2020

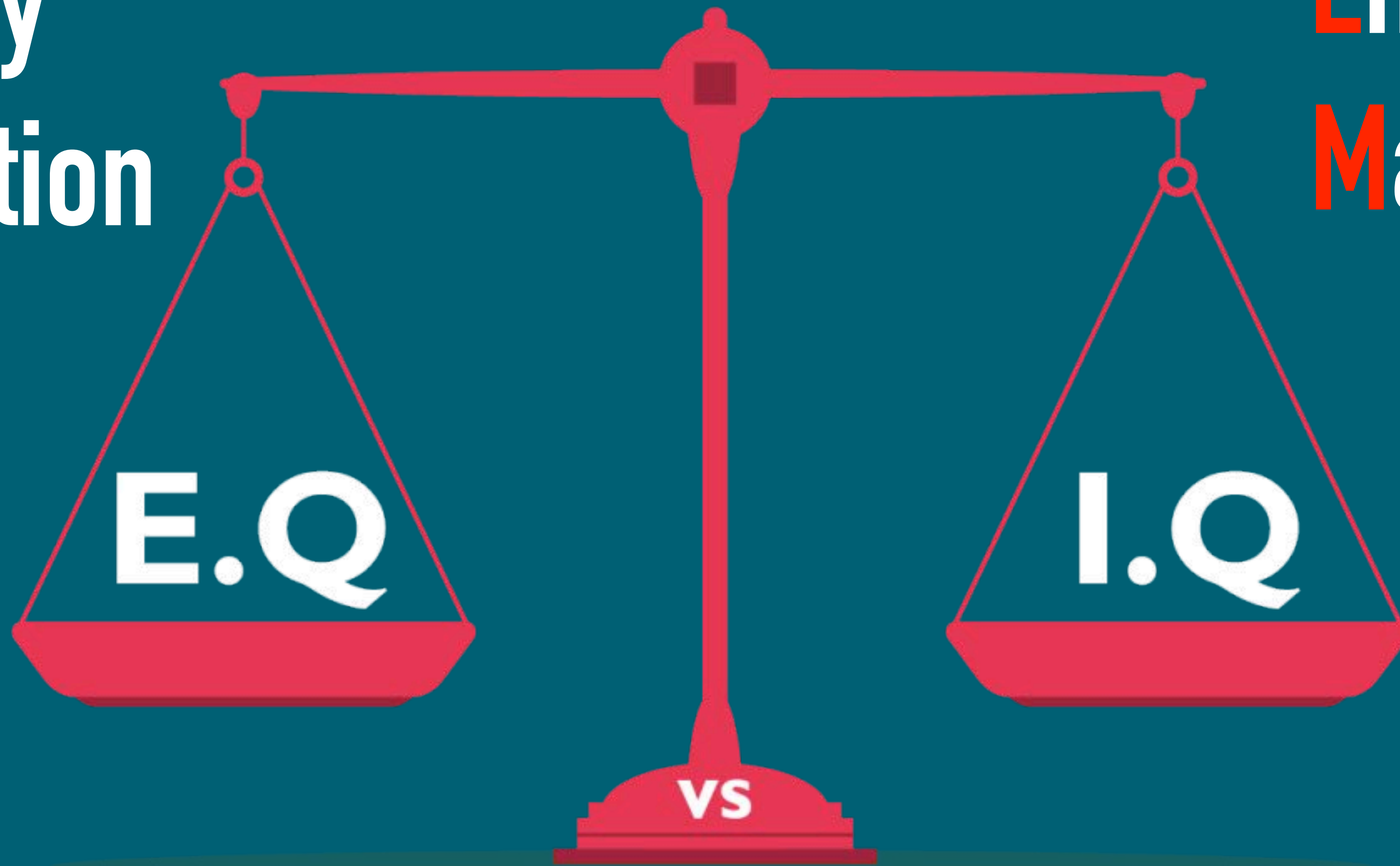
- 1 Complex Problem Solving
- 2 **Critical Thinking**
- 3 **Creativity**
- 4 People Management
- 5 Coordinating with Others
- 6 **Emotional Intelligence**
- 7 Judgement and Decision Making
- 8 Service Orientation
- 9 Negotiation
- 10 **Cognitive Flexibility**

Humanity

Ethics

Creativity

Imagination



Science

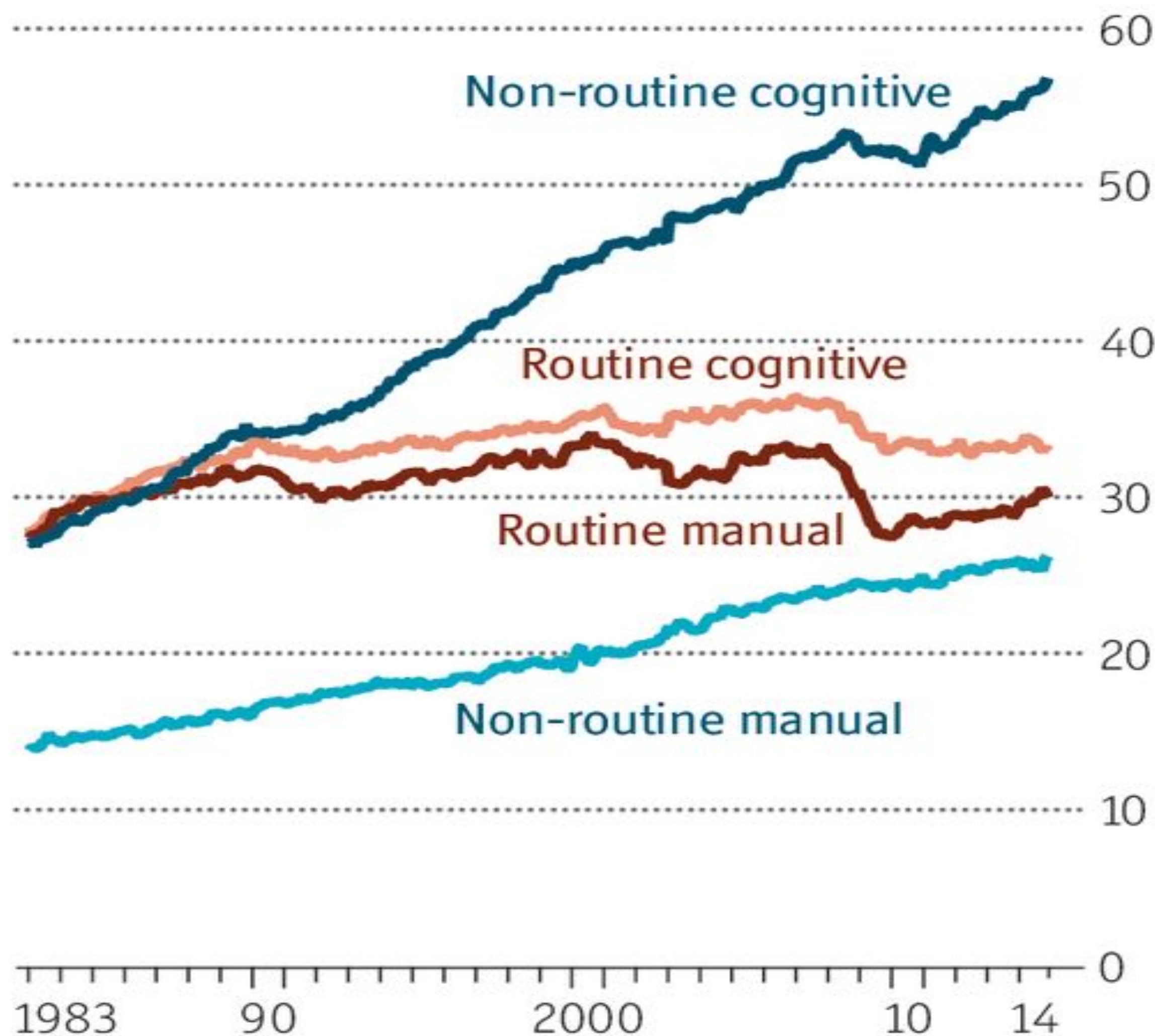
Technology

Engineering

Mathematics

Think

United States employment, by type of work, m



Sources: US Population Survey; Federal Reserve Bank of St. Louis

“For the time being, experience like mine is something people are willing to pay for.

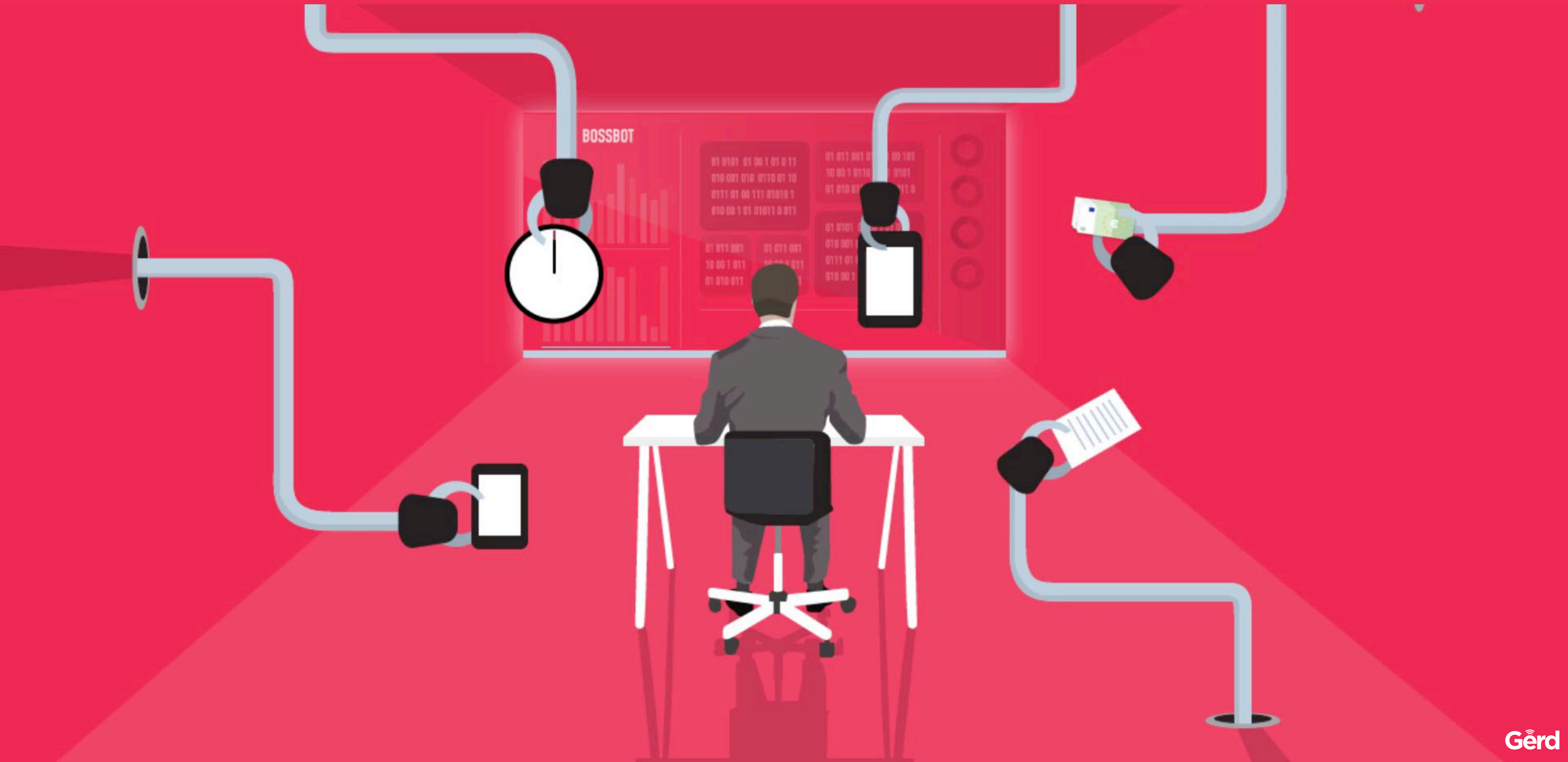
What clients don’t want to pay for is any routine work.

But the trouble is that technology makes more and more work routine”

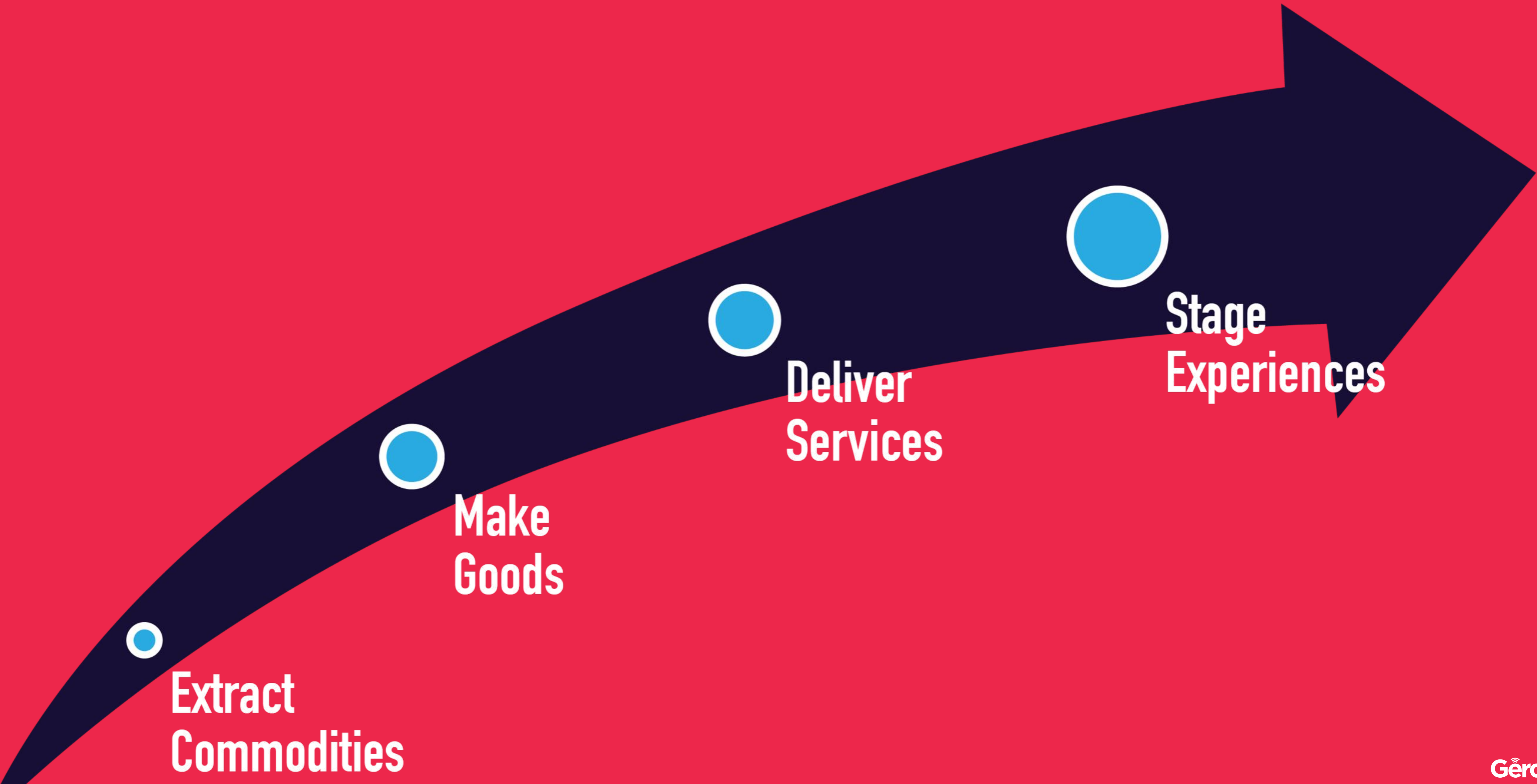


As everything moves into the cloud,
VALUE will be determined by
relevance, purpose, relationship,
meaning and experience

'Working like a robot' is not our future



Provide indispensable EXPERIENCES, transform your clients



Transformations

↑ Guide

Experiences

↑ Stage

Services

↑ Deliver

Goods

↑ Make

Commodities

Extract



Don't use technology just to make things more efficient – use it to **MAKE NEW THINGS**



Imagine

#FutureMindset

Create



The future is no longer a timeframe, it's a mindset!

Understand

Observe

Thought-leadership increasingly translates to MARKET LEADERSHIP







**“The future belongs
to those that
can hear it coming”
David Bowie**



Thanks for your time
and attention!



techvshuman.com



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