www.futuristgerd.com www.gerdtube.com (Youtube)

FUNDAÇÃO DOM CABRAL



DESENVOLVIMENTO DE EXECUTIVOS E EMPRESAS

The key future issues impacting corporate innovation by 2020

@gleonhard on Twitter New book preview: TechvsHuman.com







FUUISH

100

TECHNOLOGY VS. HUMANITY The coming clash between man and machine

www.techvshuman.com

By Gerd Leonhard



Global Transformation to a digitally-native society



♥@gleonhard

Any company designed for success in the 20th century is doomed to failure in the 21st"

-David Rose -Author of the best selling book "Angel Investing"



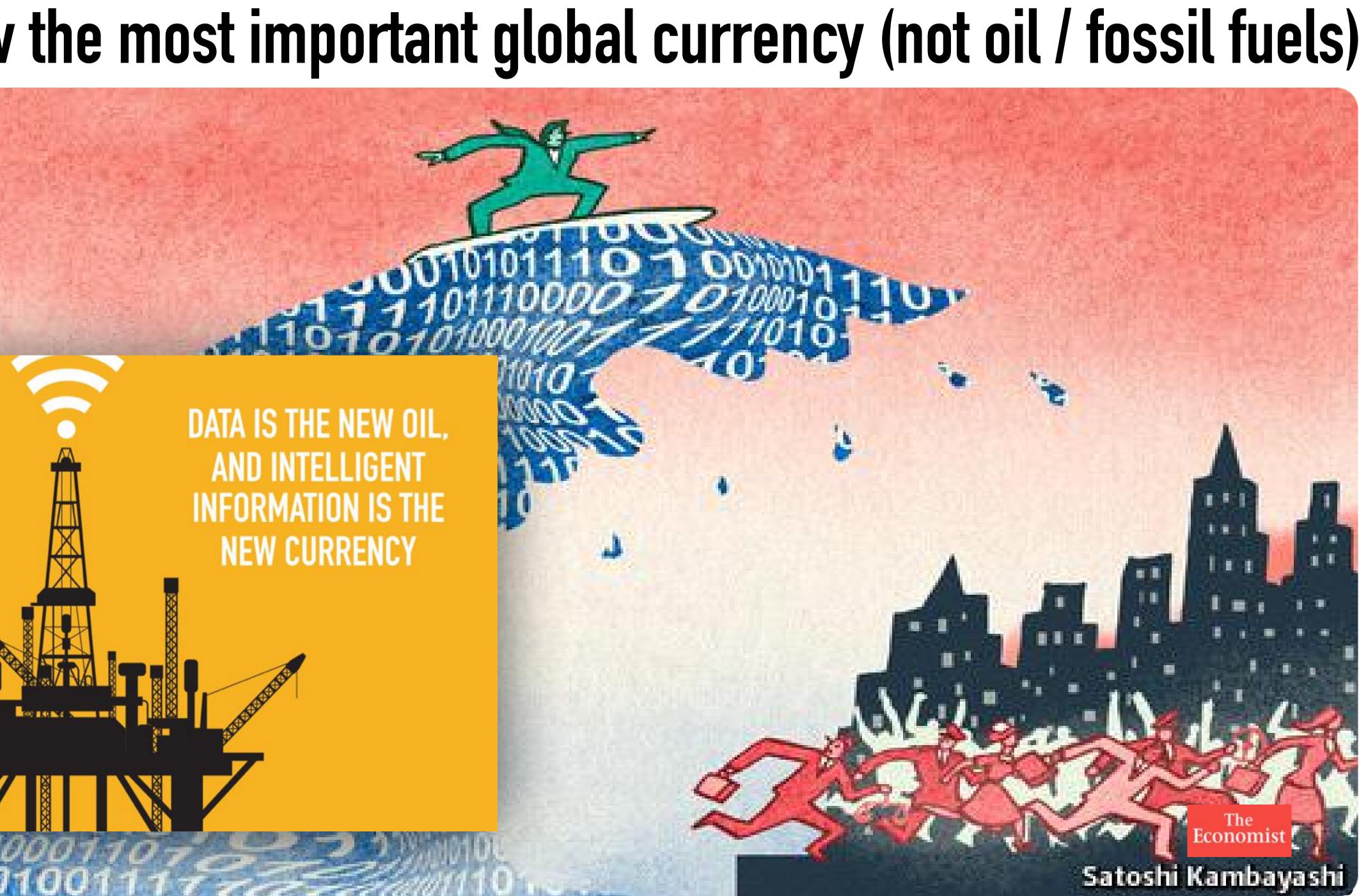








Data is now the most important global currency (not oil / fossil fuels)

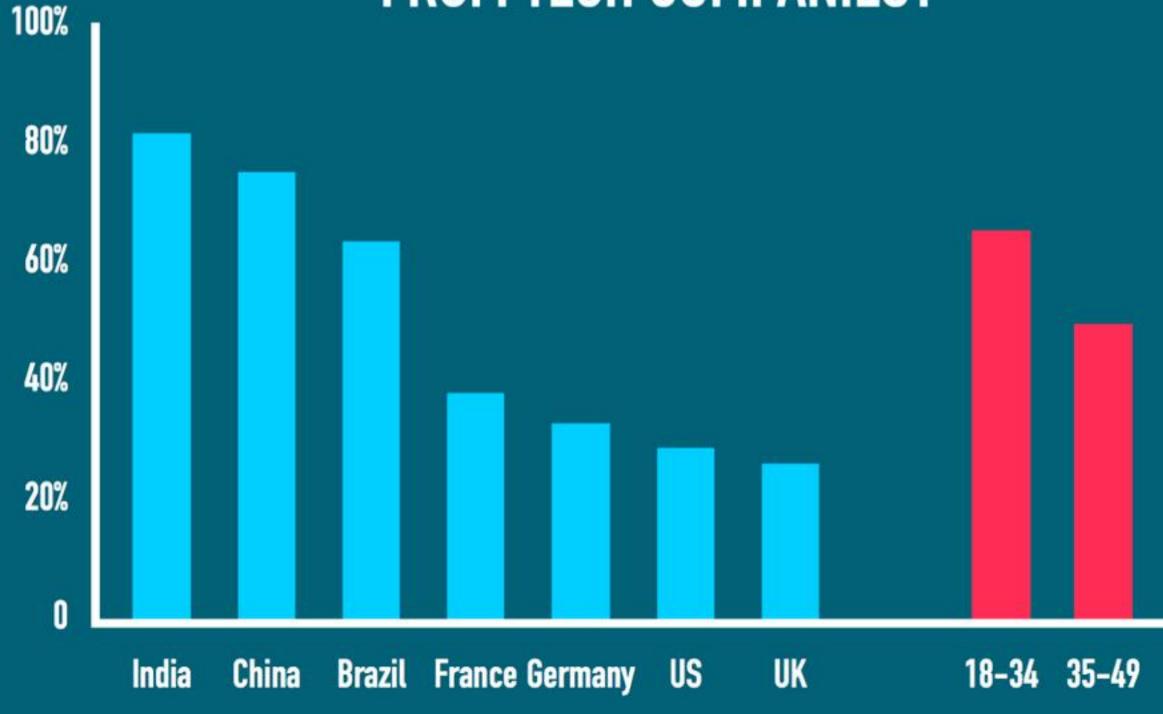


Innovation: the future is no longer just an extension of the past



Economist.com

WOULD CONSUMERS BE WILLING TO BUY CARS FROM TECH COMPANIES?



Base: 7,553 consumers from 7 countries planning to buy or lease a car in the next 12 months (June 2015) Source: Capgemini







1. Information / Content

2. Music, Media, Films & TV

3. Books / Print

4. Retail and Commerce

5. Banking / Financial Services6. Transportation, Mobility, Logistics

7. Pharma / Medical

- Babuba da Halan son

8. Energy / Utilities

9. Water / Food



Media **Money & Financial** Manufacturing Pharma & Health **Transportation & Mobility** Security & Military Government Energy

From physical to digital, exponentially...





Mark Andreessen founder of Netscape, renowned Venture Capitalist Andreessen-Horowitz

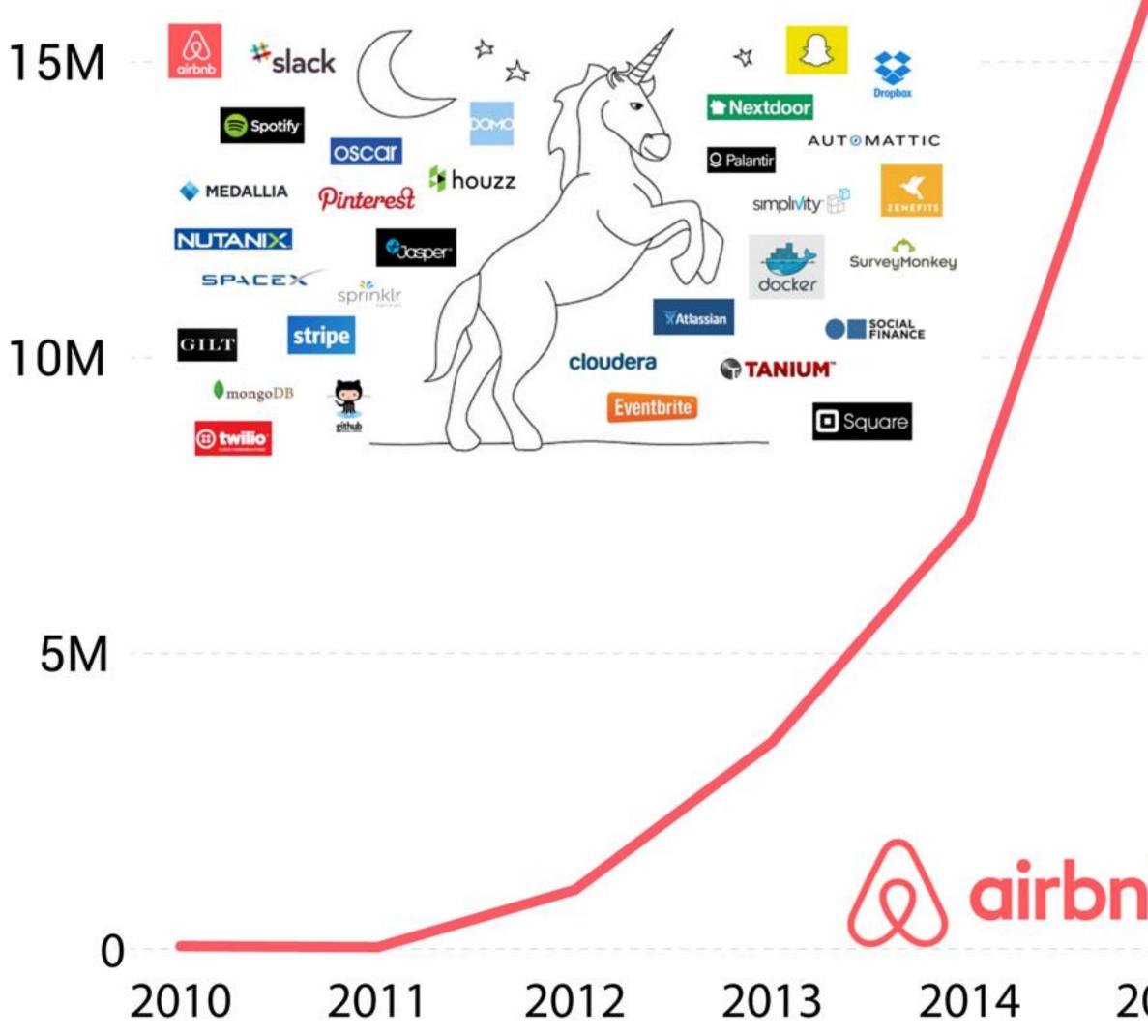
'Software is eating the world': Distributed manufacturing / 3D printing. Education in the Cloud. Self-driving cars. An Energy Intergrid. The IoT.

Software is eating the world, in all sectors

In the future every company will become a software company



NUMBER OF GUESTS STAYING WITH AIRBNB HOSTS DURING THE SUMMER





Disruption through the **backdoors**

nb 2015

dadaviz.com



We're at the pivot point of exponential change





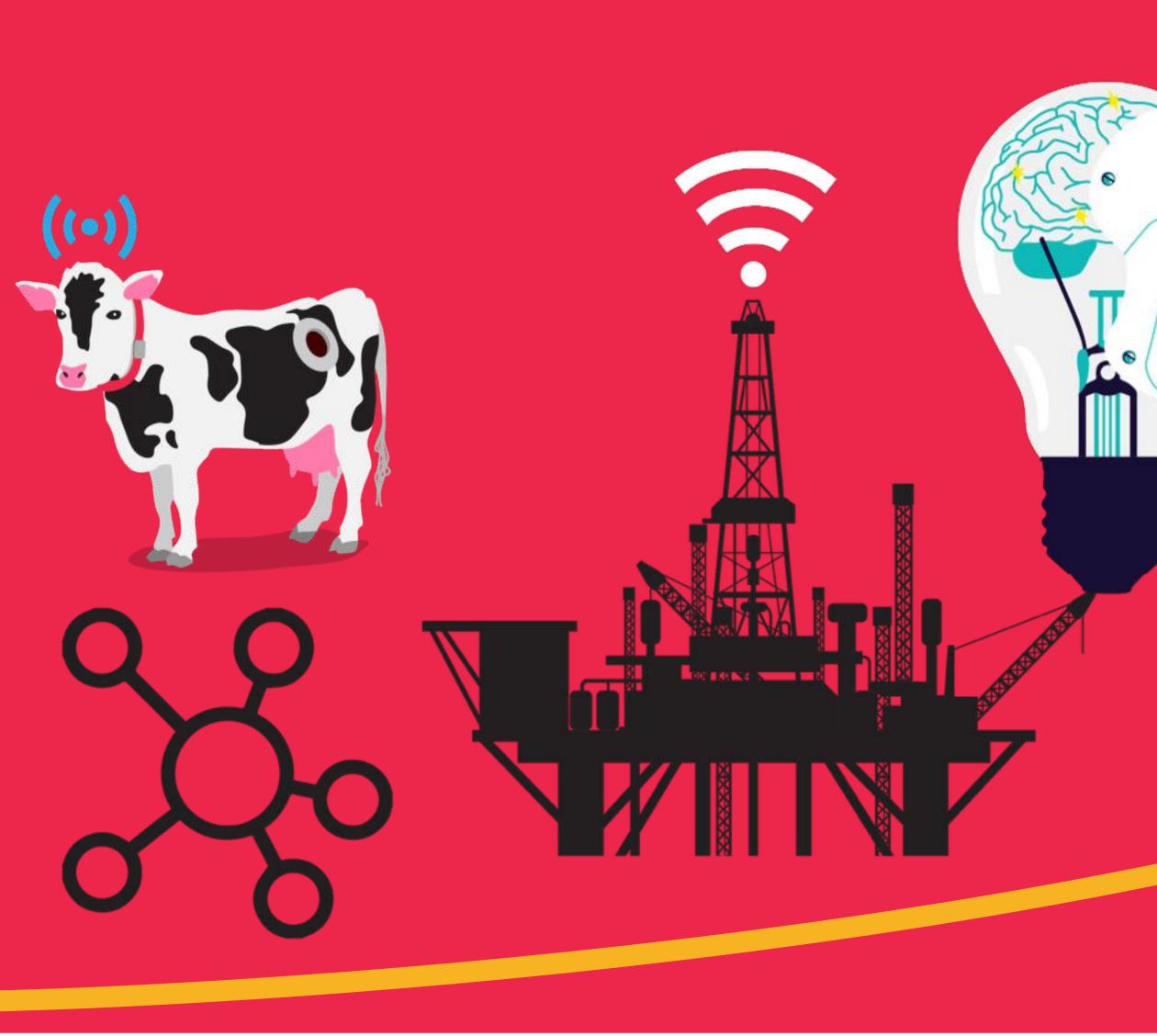
ARTIFICIAL NTELLGENCE



1248163264128



Exponential connectivity, data, intelligence, man-machine convergence

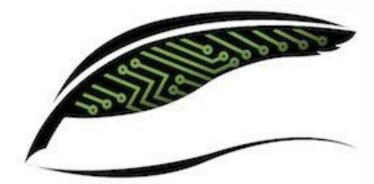




A Singularity University Book



Beyond innovation: total transformation of what we do!



Narrative Science

Our technology application generates news stories, industry reports, headlines and more at scale and without human authoring or editing



• Dubai >> Abu Dhabi in 15 minutes • London >> Paris in 15 minutes

Source: Peter Diamandis



L.A. >> San Francisco in 35 minutes • Montreal >> Toronto in 30 minutes • L.A. >> Vegas in 20 minutes





You can now ask Alexa to order millions of products on Amazon

KHARI JOHNSON JULY 1, 2016 4:35 PM TAGS: ALEXA, AMAZON, AMAZON CHOICE, TOP-STORIES

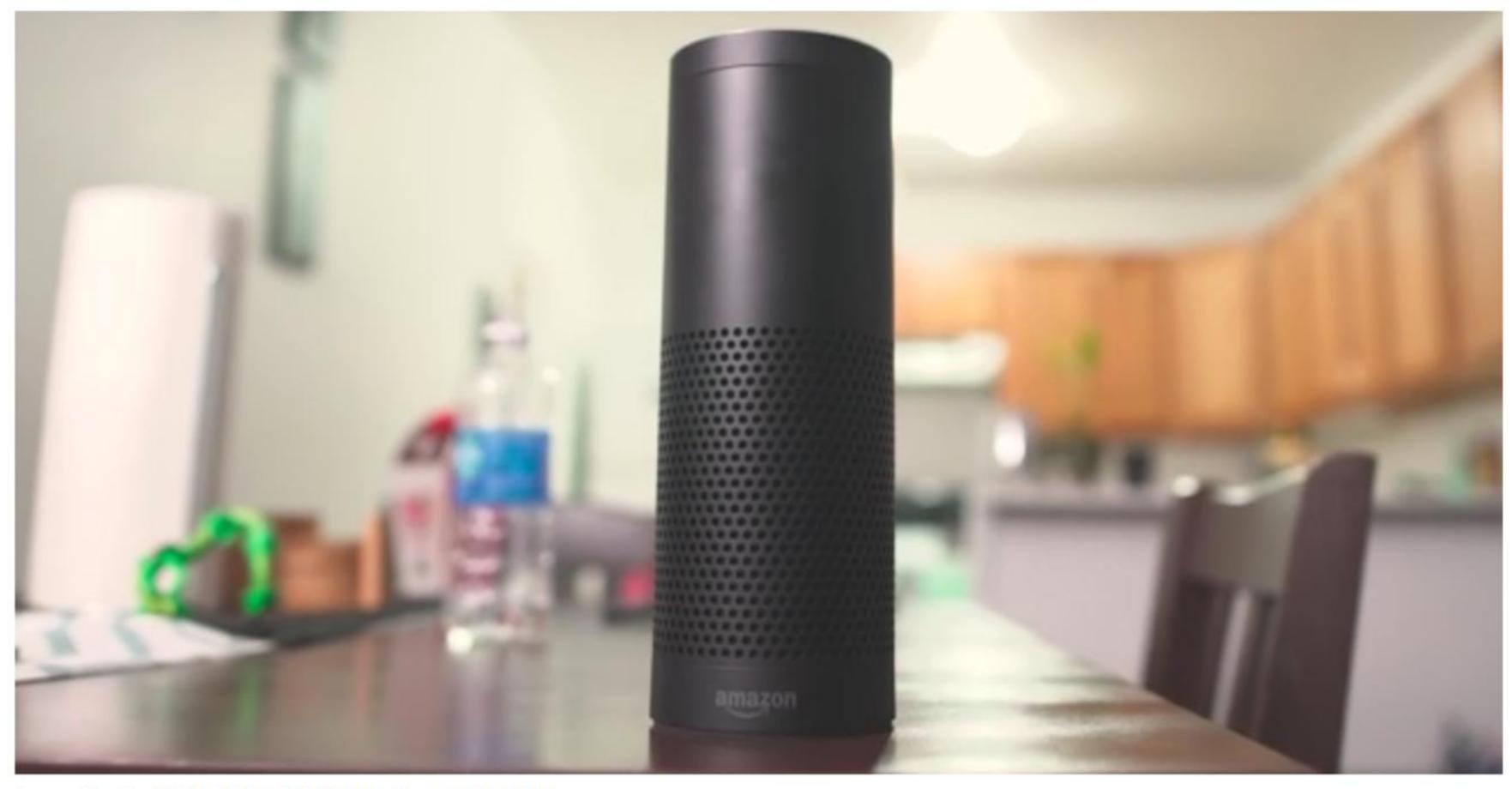


Image Credit: Carlos Delgado's Echo review on YouTube

We are at the pivot point

•



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

Food chain conflicts are inevitable – Hyper–Collaboration wins

Global Internet Market Leaders = Apple / Google / Amazon / Facebook / Tencent / Alibaba...Flush with Cash...Private Companies Well Represented

Rank	Company	Region	Current Market Value (\$B)	Q1:16 Cash (\$B)	2015 Revenue (\$B)
1	Apple	USA	\$547	\$233	\$235
2	Google / Alphabet	USA	510	79	75
3	Amazon	USA	341	16	107
4	Facebook	USA	340	21	18
5	Tencent	China	206	14	16
6	Alibaba	China	205	18	15
7	Priceline	USA	63	11	9
8	Uber	USA	63		
9	Baidu	China	62	11	10
10	Ant Financial	China	60		
11	Salesforce.com	USA	57	4	7
12	Xiaomi	China	46		
13	Paypal	USA	46	6	9
14	Netflix	USA	44	2	7
15	Yahoo!	USA	36	10	5
16	JD.com	China	34	5	28
17	eBay	USA	28	11	9
18	Airbnb	USA	26		
19	Yahoo! Japan	Japan	26	5	5
20	Didi Kuaidi	China	25		
Total			\$2,752	\$447*	\$554*

@KPCB

Source: CapIQ, CB Insights, Wall Street Journal, media reports. Market value data as of 5/31/16. * Includes only public companies. Note: For sublic companies, colors denote current market value elative to Y/Y market value. Green = higher. Red = lower. Purple = newly public within last 12 months (applied here to both eBay and Paypal given Paypal spinoff on 7/20/15). Yellow = private companies, where market value represents latest publicly announced valuation. Ant Financial and Did Kuaid valuation per latest media reports as of 5/2016. Ant Financial treated separately from Albaba retains no control of Ant and will receive a capped lump sum payment in the event of an Ant liquidity event. Cash includes cash and equivalents and short-term marketable securities plus long-term marketable securities where deemed liquid.





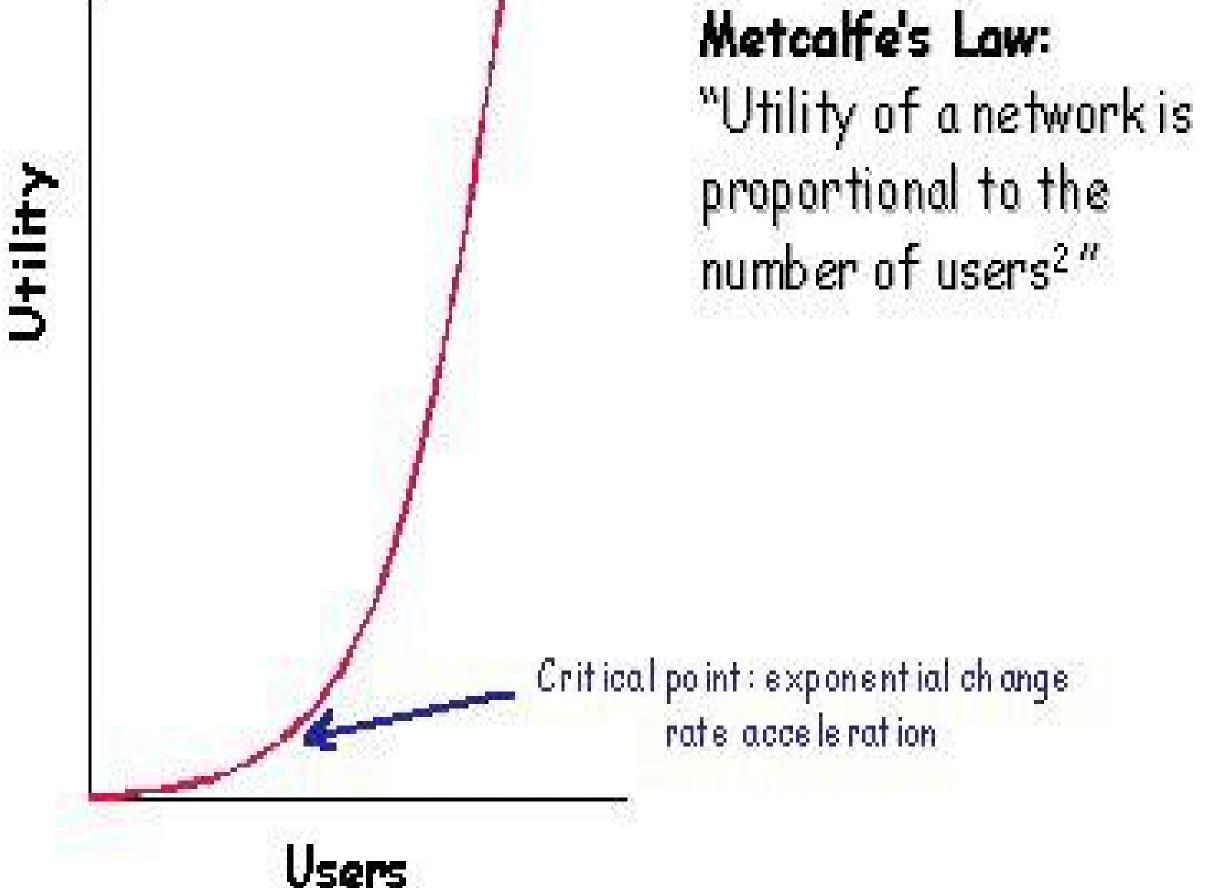
KPCB INTERNET TRENDS 2016 | PAGE 187



2 key realisations about future economic logic Importance of scale and network effects

Inevitable interdependence



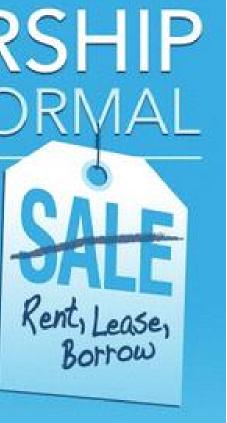




At the dawn of 4 new 'economies' 1. Maker-Economy: distributed manufacturing and 3D printing 2. On-Demand / Sharing Economy: own less, access more; even... disownership? 3. Circular Economy: people, planet, profit and a kind of sustainable capitalism ? 4. Experience Economy: immersive, embodied, focus on lifetime memories instead of purchases



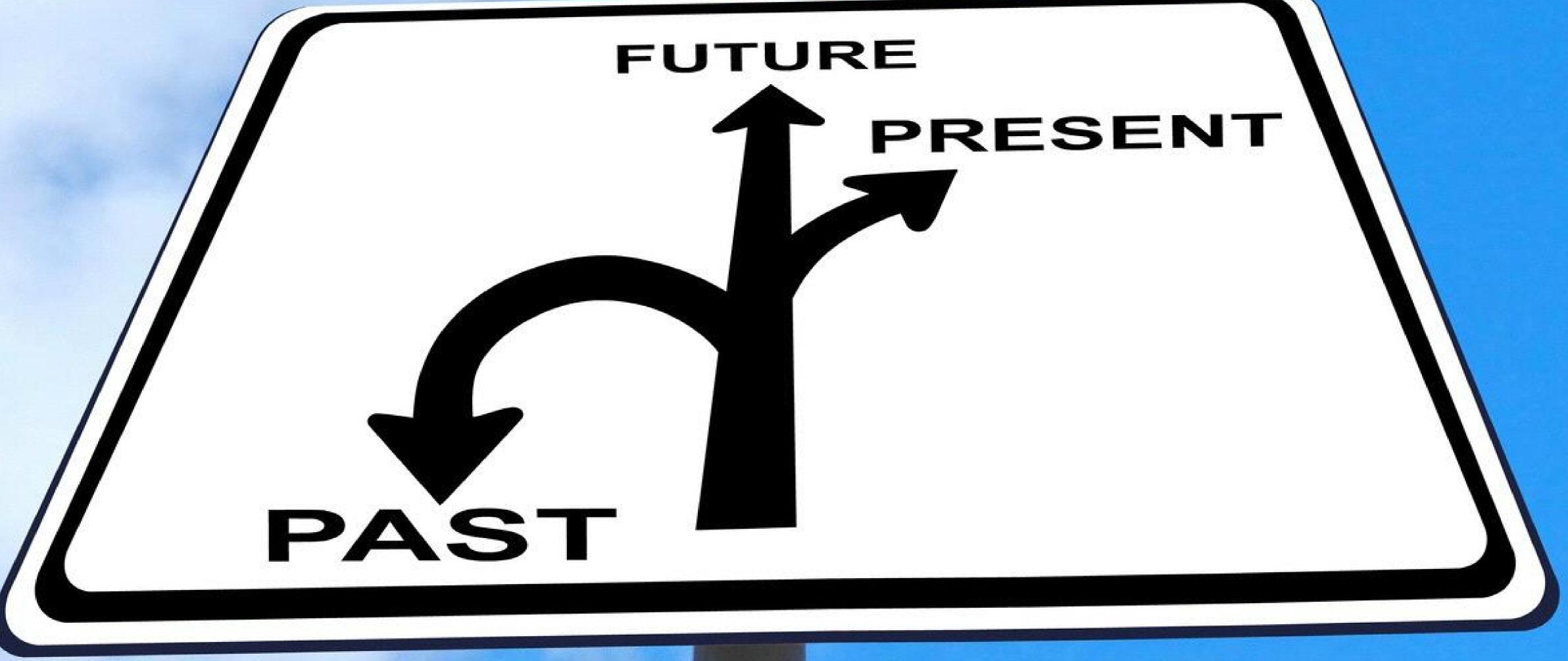
WNERSHIP IS THE NEW NORMAL







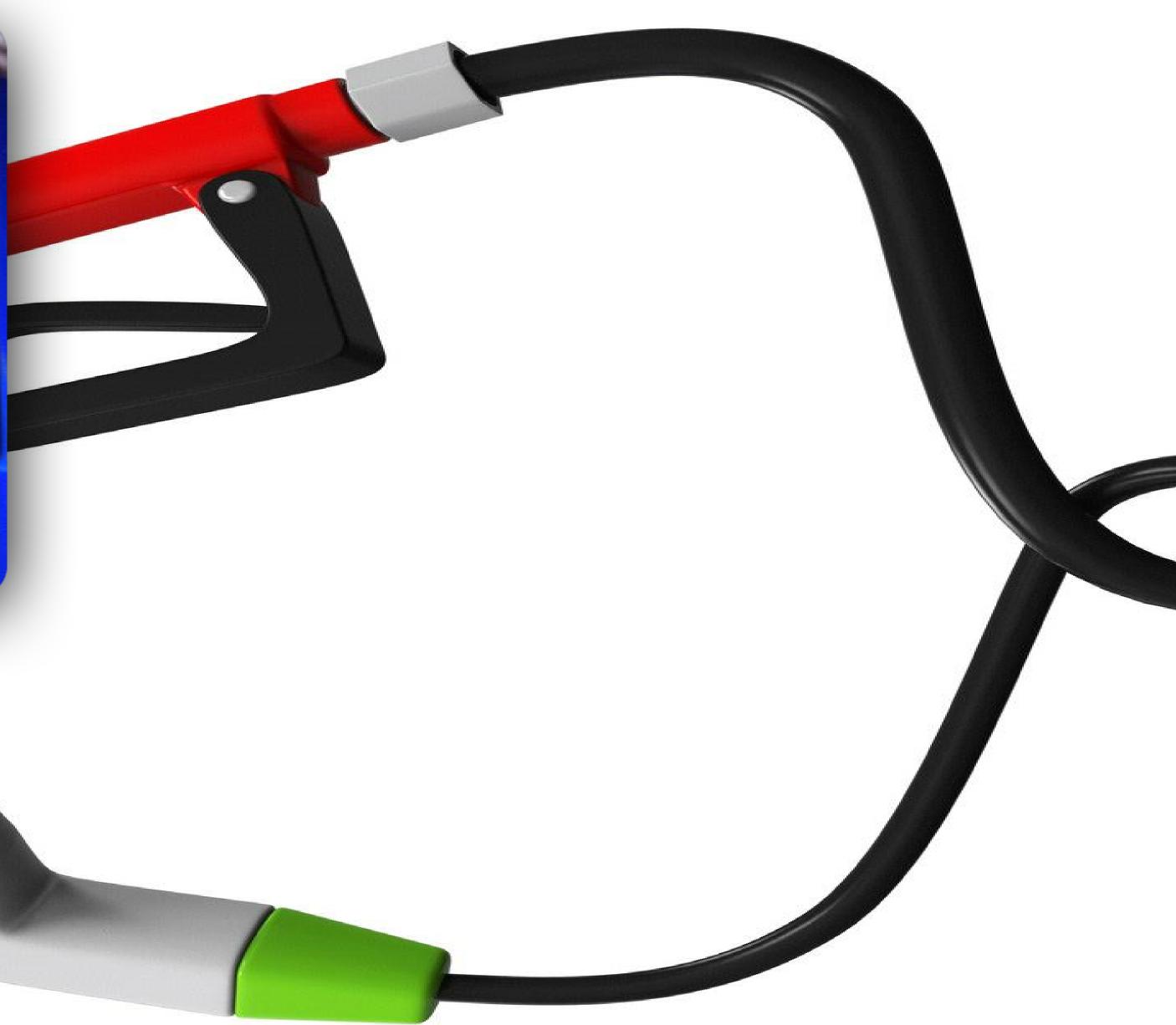
The future is no longer just an extension of the past or present





The hybrid default: thinking about what is, and what might be

"The single biggest reason companies fail is they overinvest in what is, as opposed to what might be."



Gary Hamel Big-time Business Thinker

ce | http://www.flickr.com/photos/hsm-mexico/4130841







Digitization -Mobilisation Screenification Disintermediation Automation Intelligization Personalisation Anticipation Virtualization Robotization

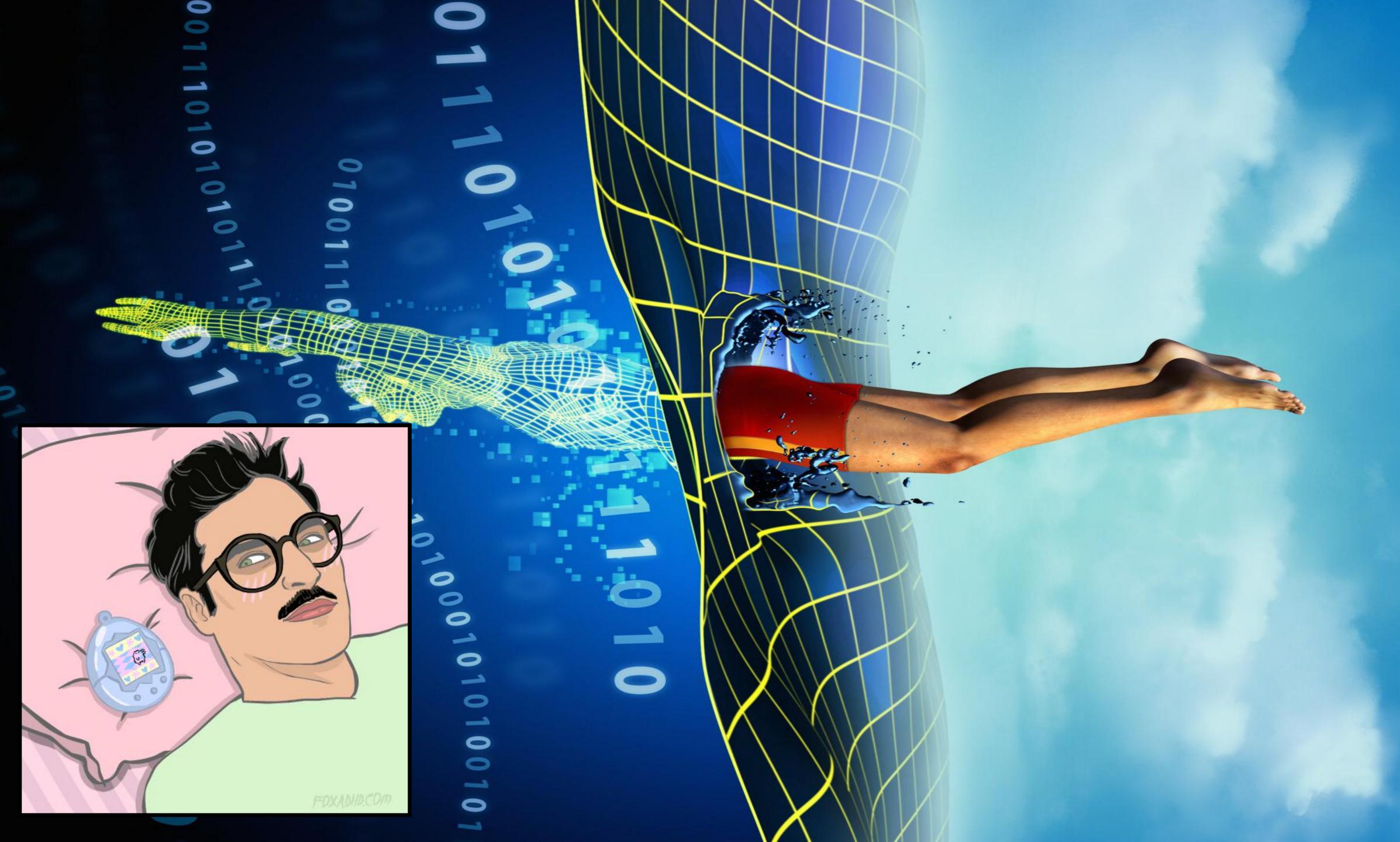
These 10 mega-shifts are driving corporate innovation and transformation

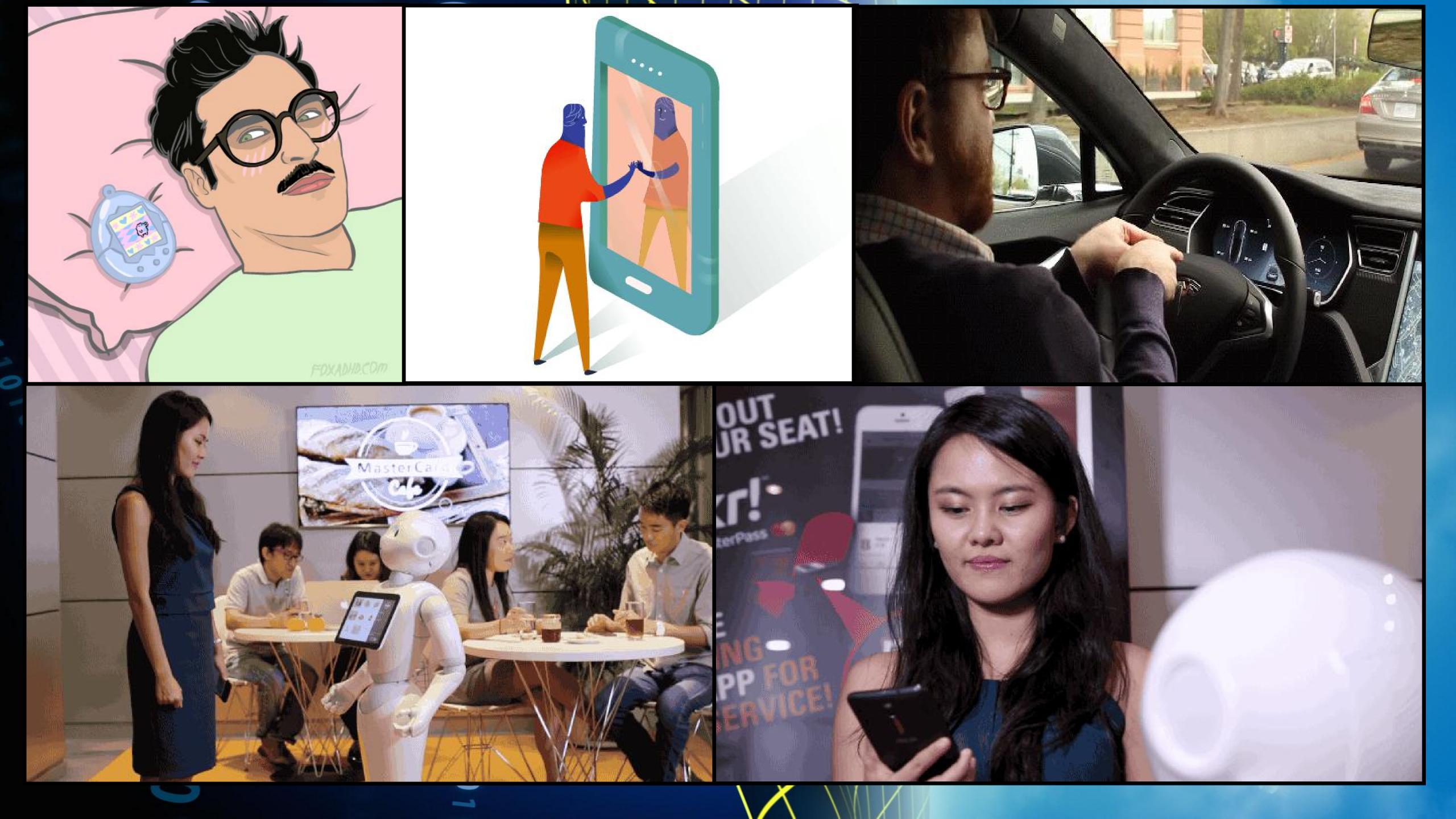


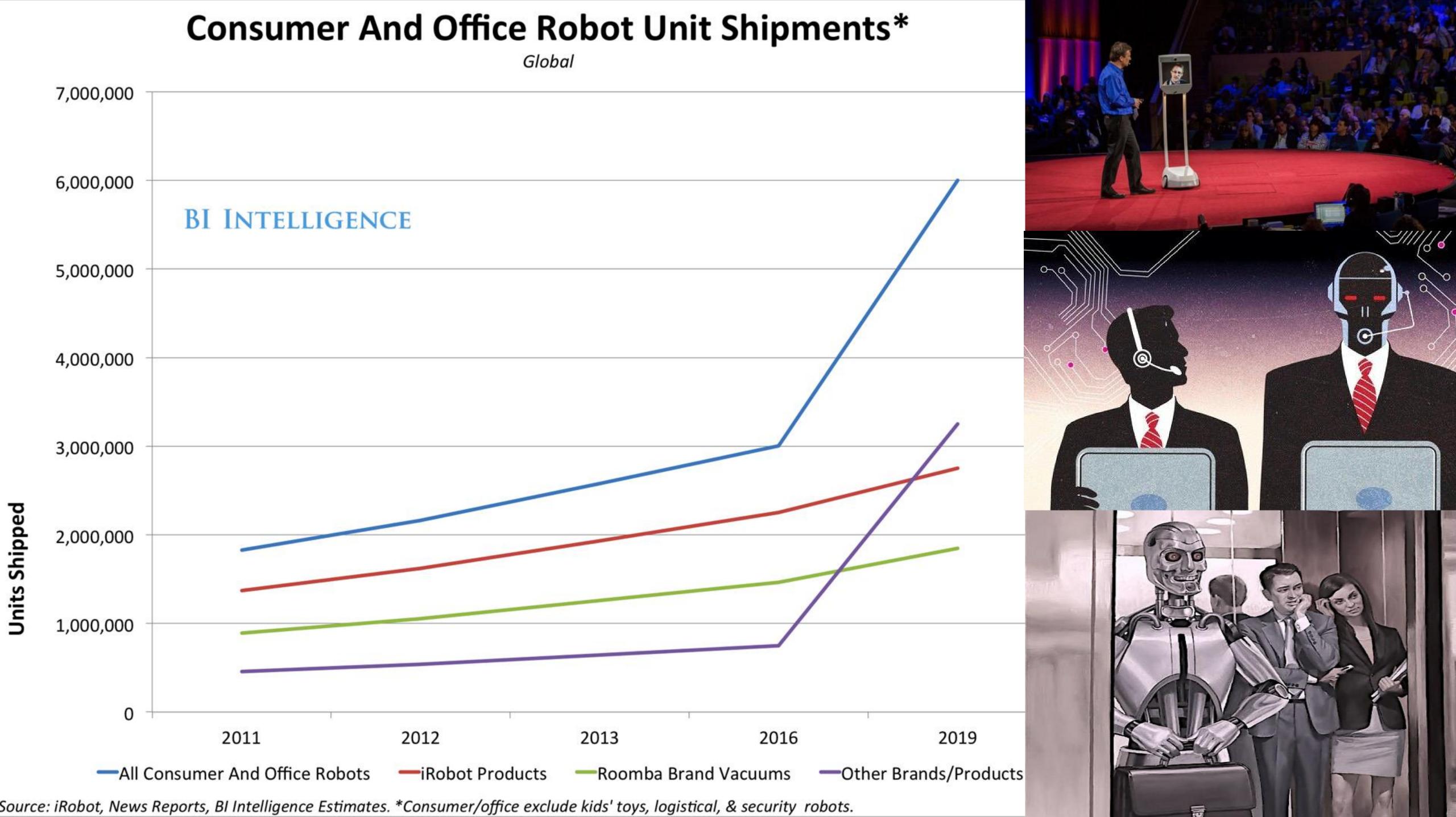
10% challenge ... and growing!

90% opportunity!









Units Shipped

Robotic cars, ships, planes, pets...friends...?





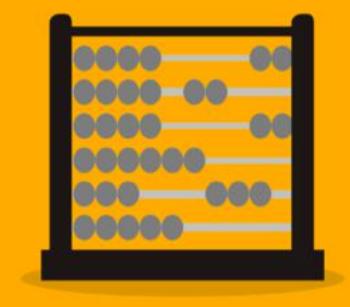


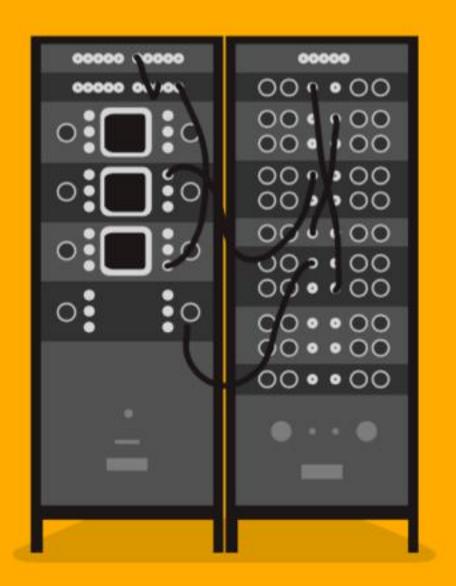


container ship, reimagined Nick Kaloterakis



COMPUTING IS GOING FROM TABULATING TO PROGRAMMING TO COGNITIVE





Tabulating Systems Era

1900

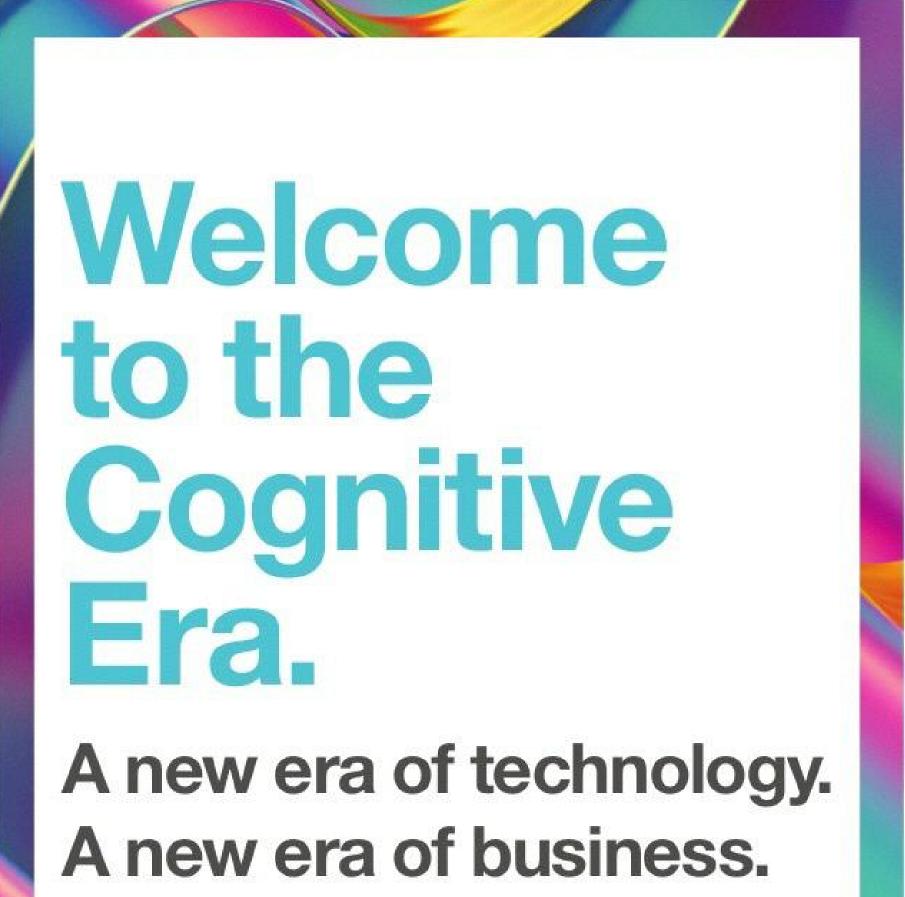
Programmable Systems Era





2011

BM Watson



A new era of thinking.

Machines that can. . . think?







ARTIFICIAL INTELLIGENCE

THE GLOBAL BRAIN

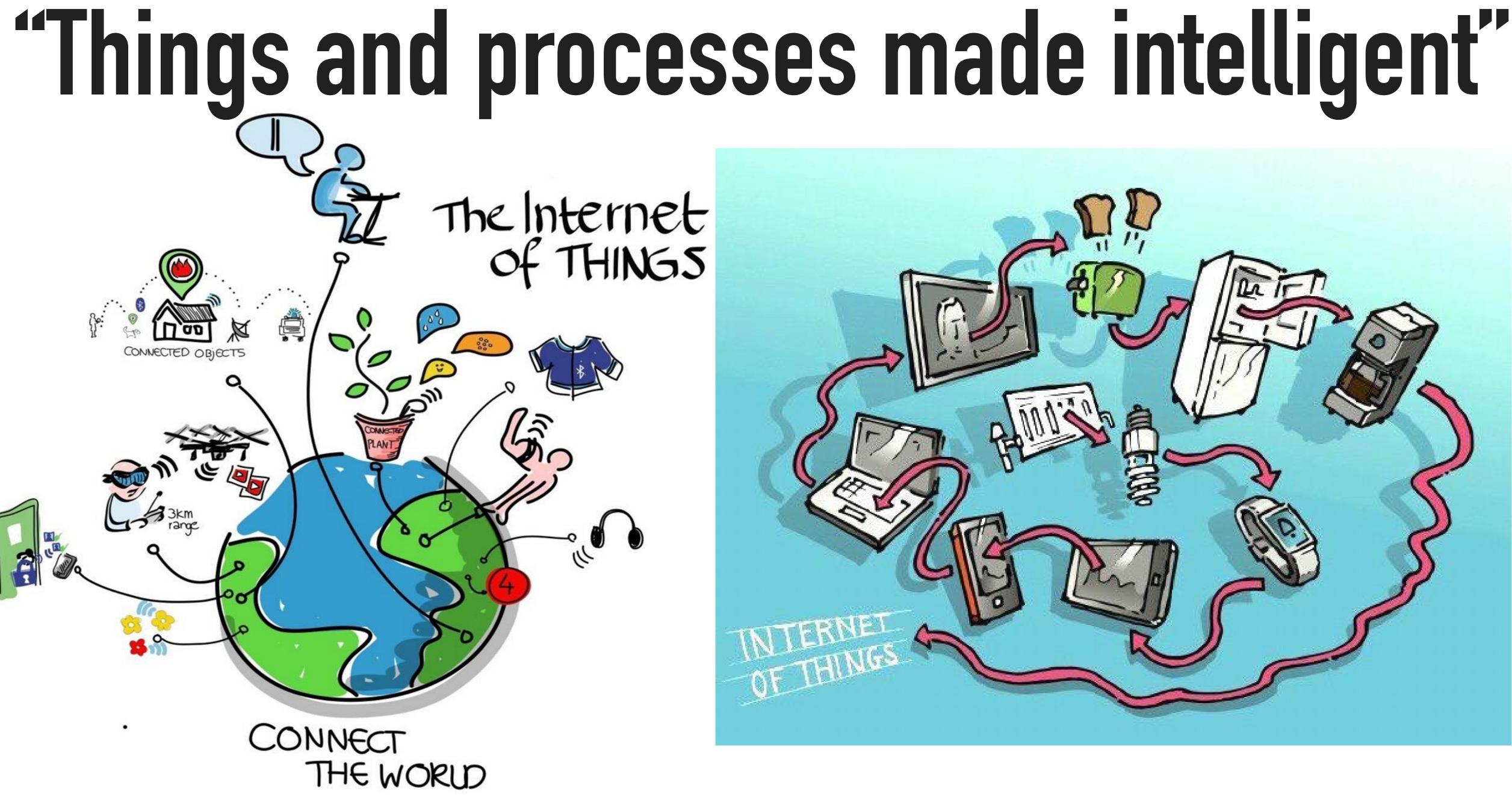
Viv radically simplifies the world by providing an intelligent interface to everything.



ARTIFICIAL INTELLIGENCE

INTELLIGENCE BECOMES A UTILITY





Digitization Disintermediation Mobilisation / Screenification Intelligization (AI/IA) Automation Virtualization / Cloud Anticipation / Prediction Augmentation / VR Robotization (Re)-Humanization



Imagine what this will do to (for) your business





Ambient Computing – Predictive Analytics – Business 'Super Intelligence'

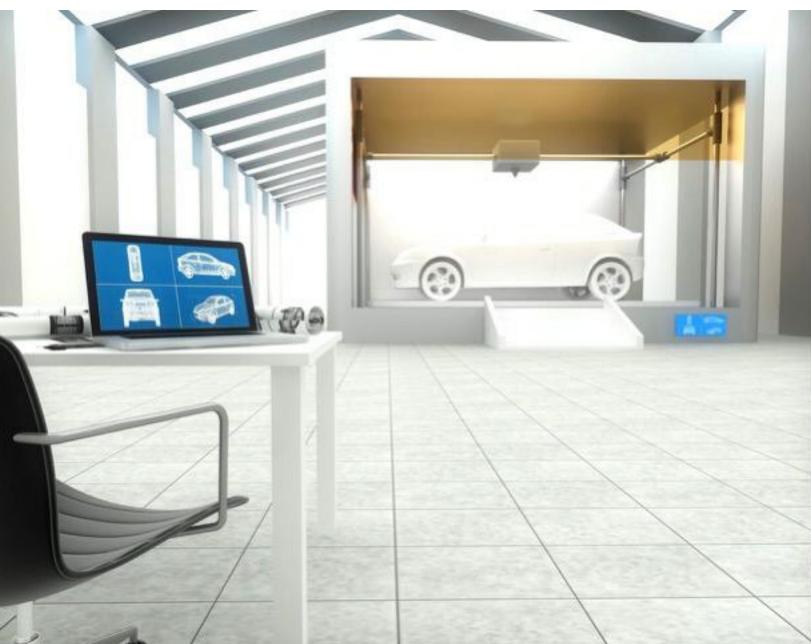


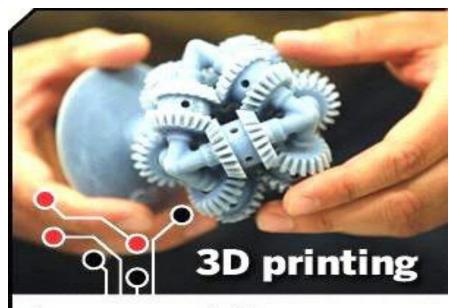


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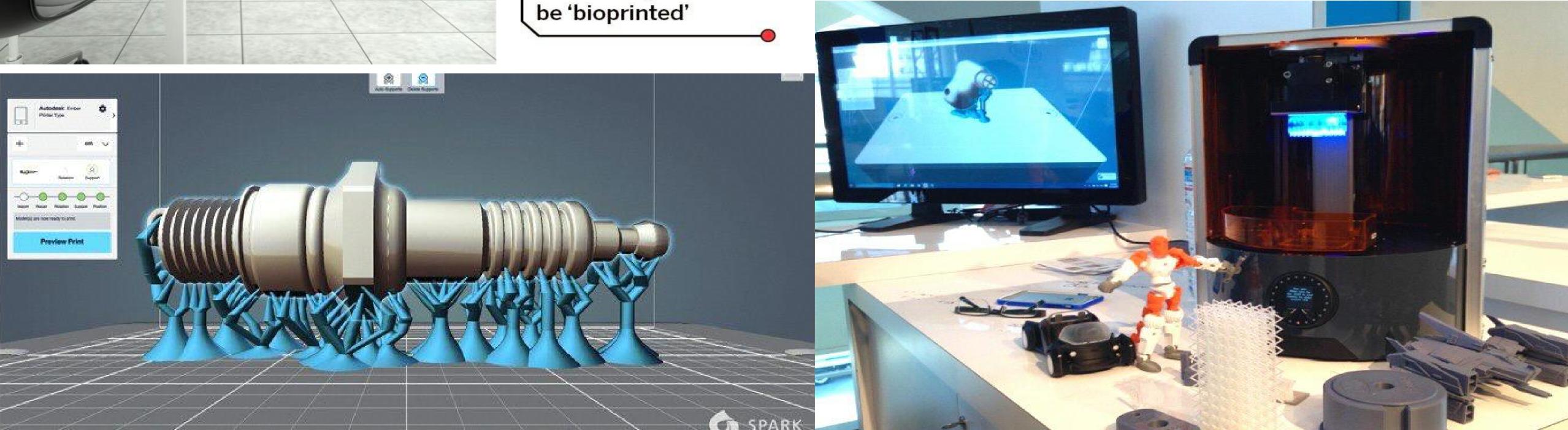
MAEREK

An imminent paradigm shift: distributed manufacturing / 3D printing





Items could be printed on demand - from spare parts in factories to shoes on the high street. Human organs could be 'bioprinted'





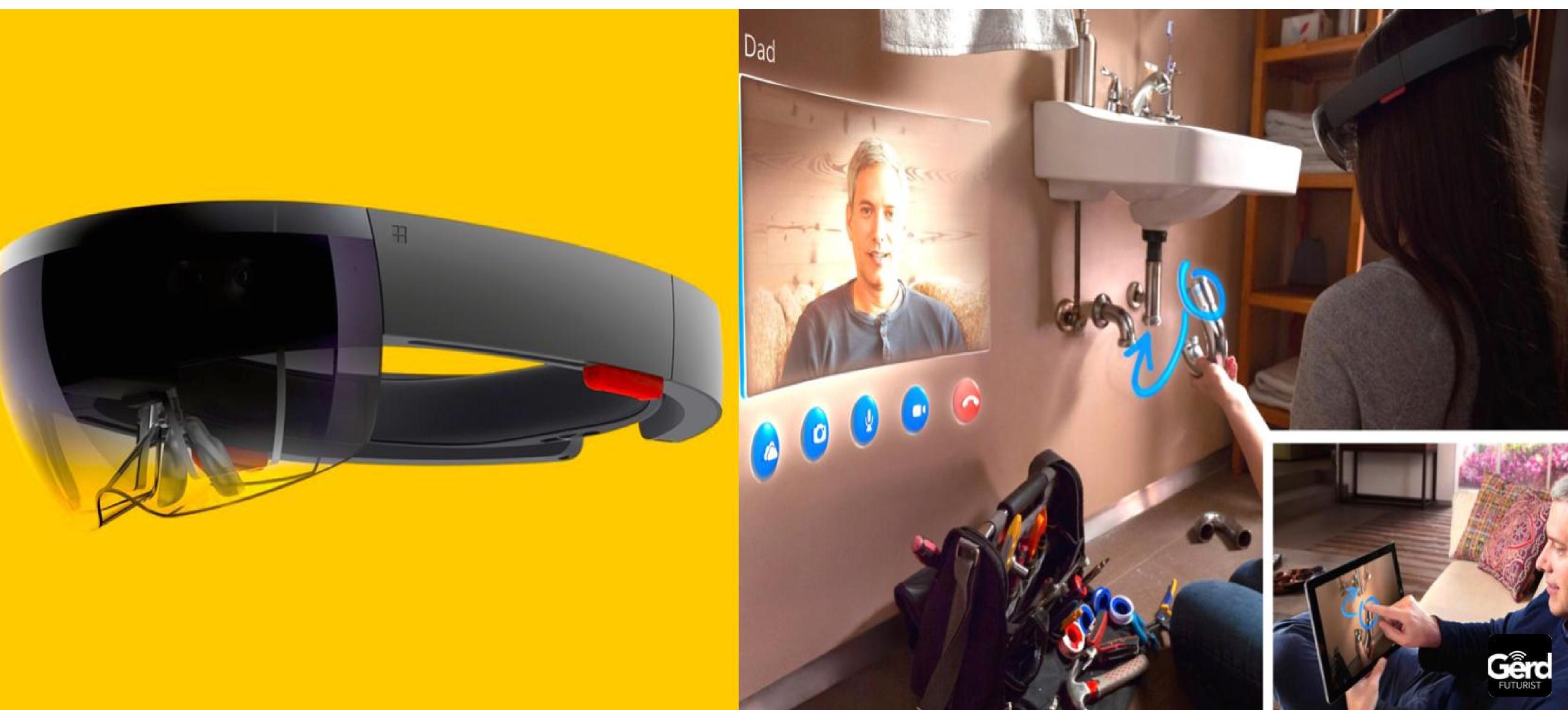
maker movement/ DIY (DIYbio, DIYdrone)





The way we will see the world is about to change, as well

Microsoft Hololens

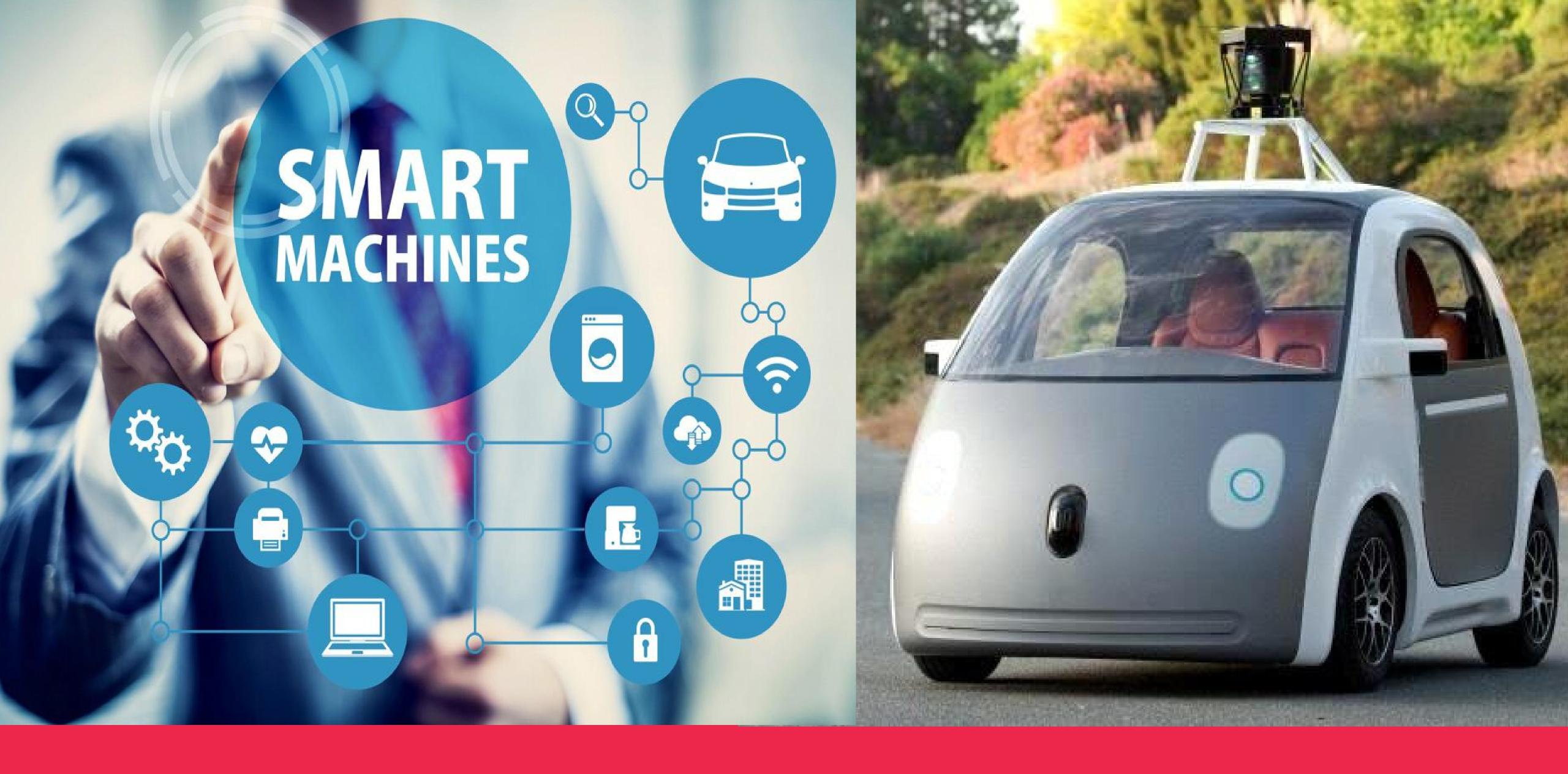




Purpose Services - Experiences - Platforms

Abundant products, infrastructure - and technology





Anything that can be digitised + automated, will be . . .



... but anything that cannot be digitized or automated will dramatically increase in value



Future skills required: technology and humanity in 2020 in 2015

- **Complex Problem Solving**
- Critical Thinking
 - Creativity

1.

2.

З.

4.

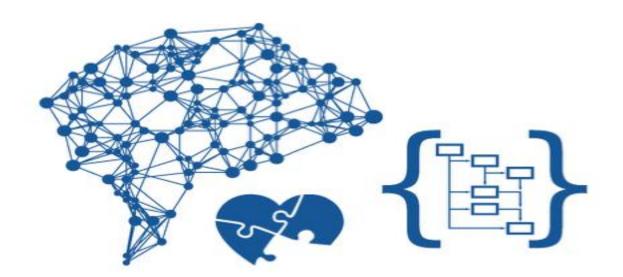
5.

6.

7.

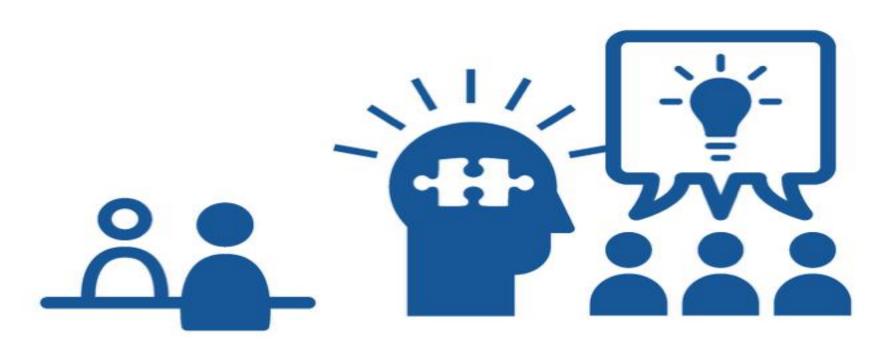
8.

- **People Management**
- **Coordinating with Others**
- **Emotional Intelligence**
- **Judgment and Decision Making**
- Service Orientation
- 9. Negotiation
- 10. **Cognitive Flexibility**



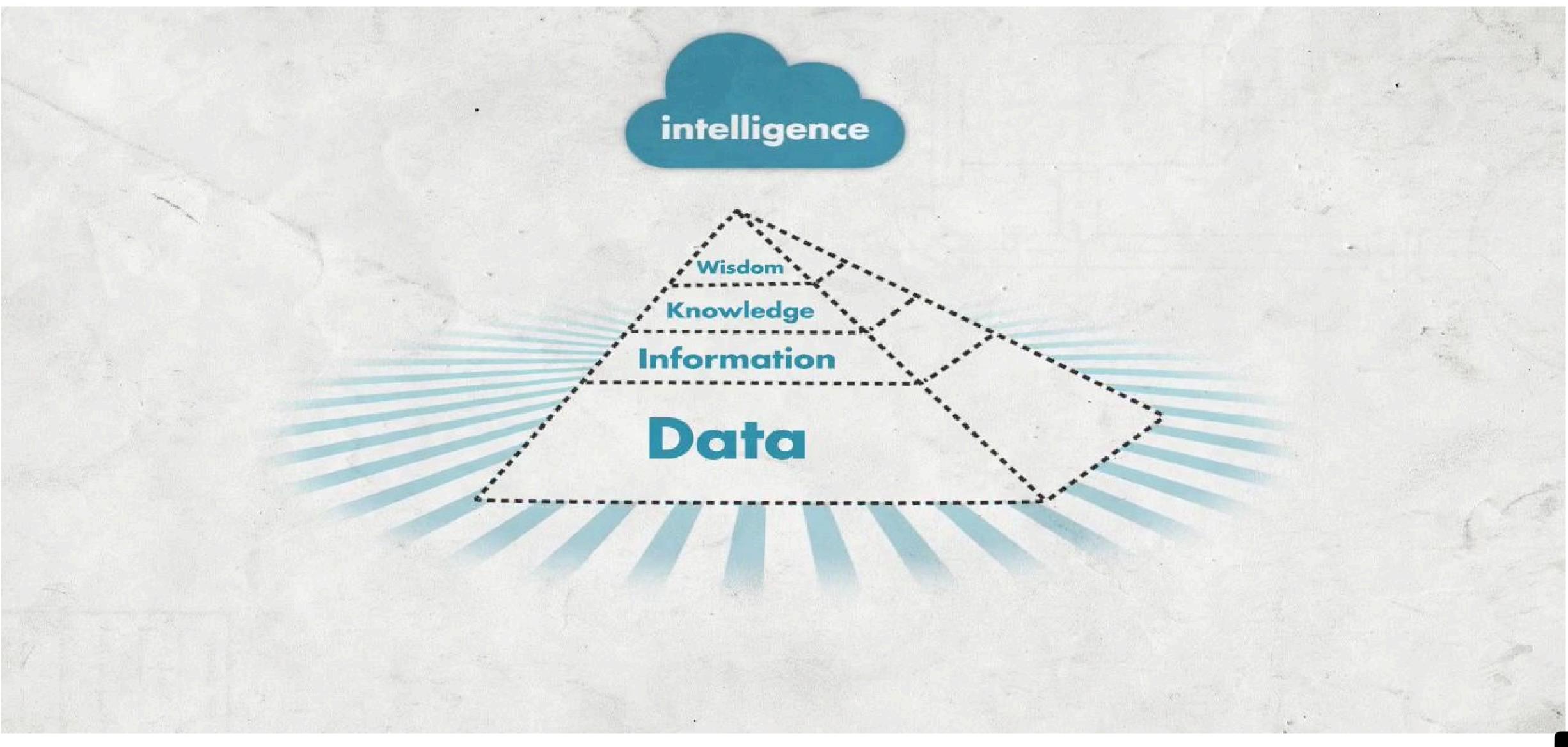
Source: Future of Jobs Report, World Economic Forum

- Complex Problem Solving 1.
- 2. Coordinating with Others
- **People Management** 3.
- Critical Thinking 4.
- Negotiation 5.
- **Quality Control** 6.
- Service Orientation 7.
- Judgment and Decision Making 8.
- Active Listening 9.
- 10. Creativity





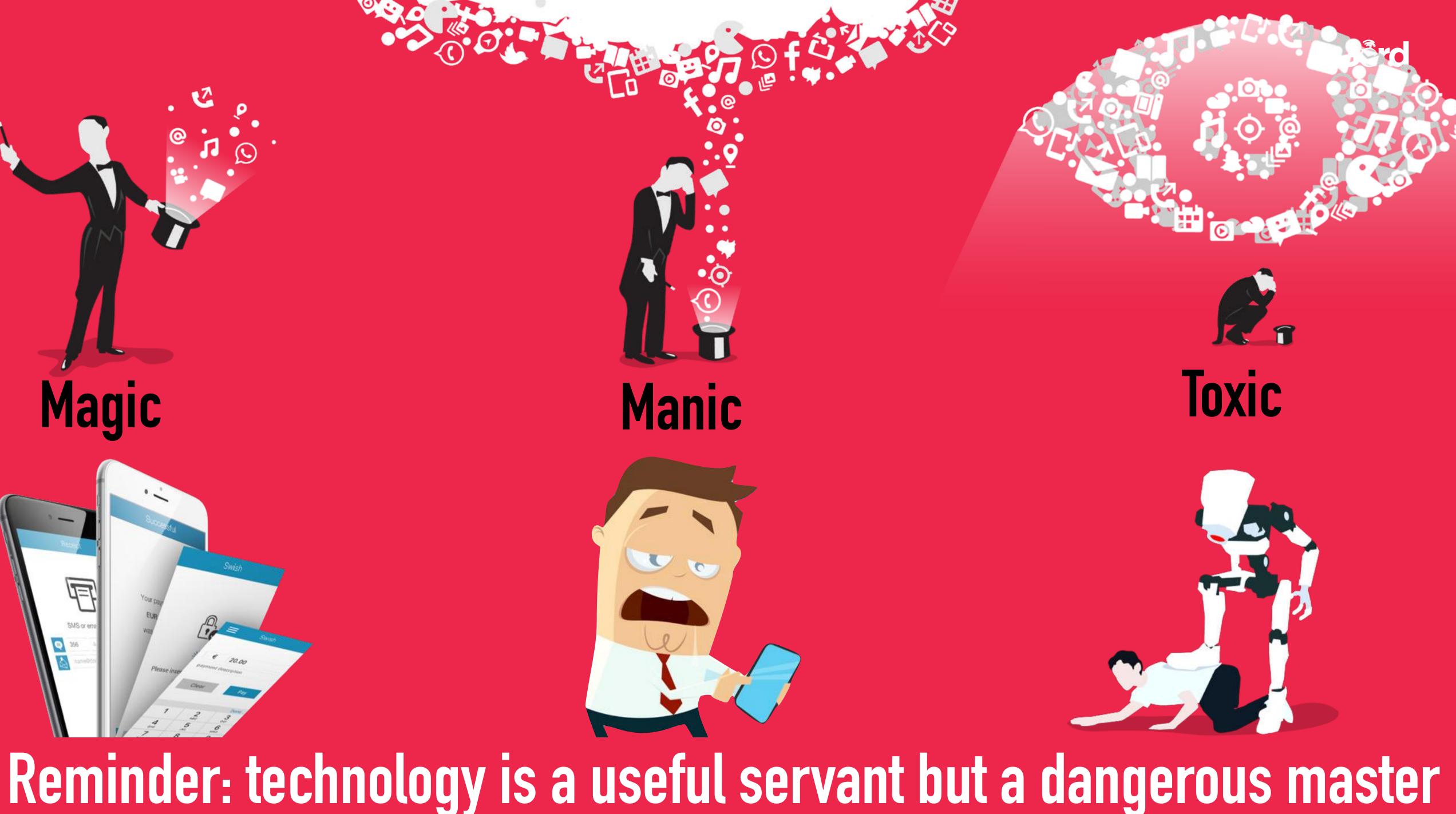
Wisdom in leadership: knowledge + social + emotional intelligence











Technology and humanity are increasingly overlapping: digital ethics become essential





'Sustainable' will become the new 'Profitable'

People

Sustainability

Viable

Planet

Bearable

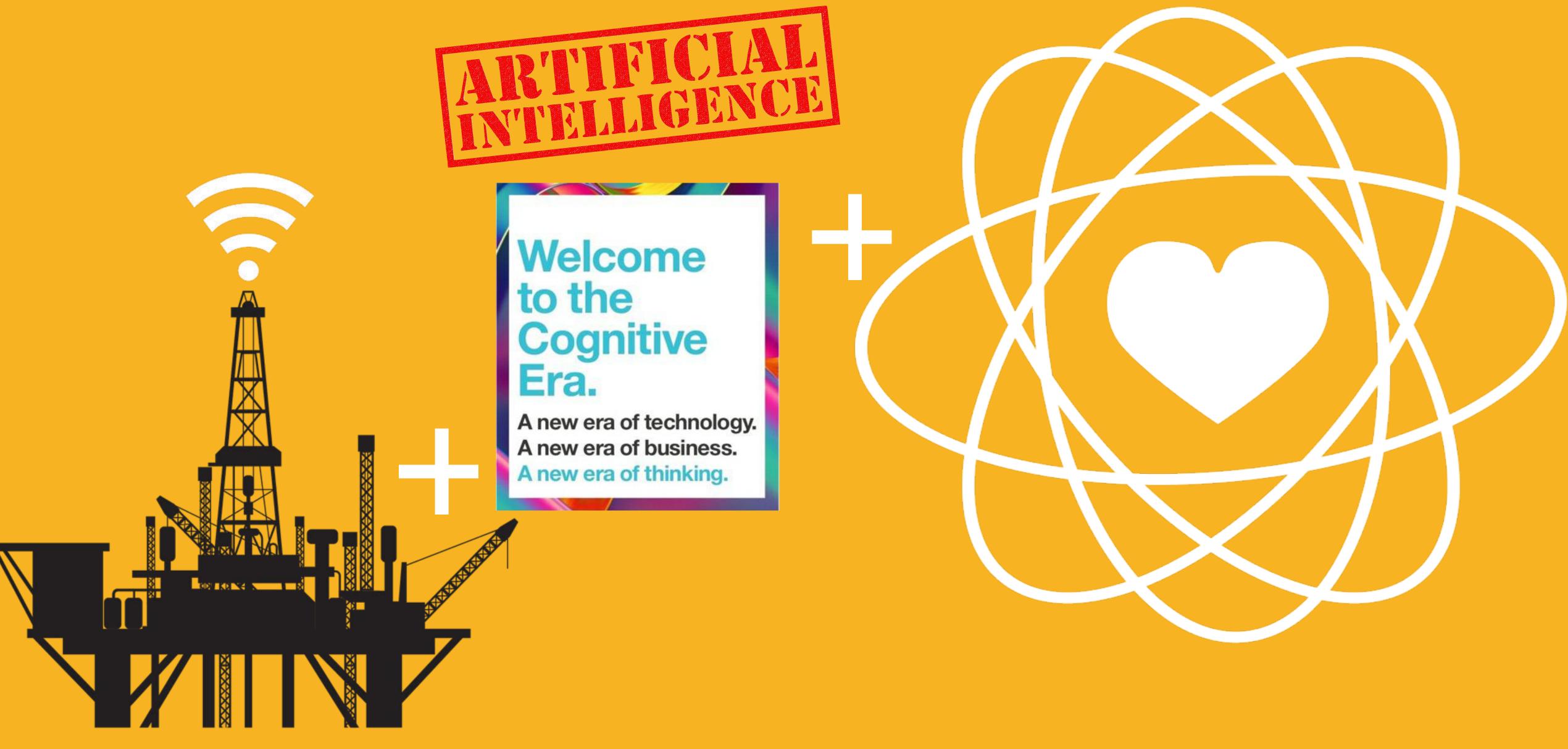
Equitable

Profit





The most successful brands will be on 'Team Human'





Tomorrow belongs to those who can hear it **coming**" David Bowie





Bowie's VIRTUAL Receive special Get a free CD with WORLD! offers through the **BowieNet E-MAIL** LIST!

BOWIE RADIO is here!!! NEW -David DJs on Channel 2!









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DESENVOLVIMENTO DE EXECUTIVOS E EMPRESAS

Thanks for your time and attention!



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