Exponential Technologies, Disruption and What to do about it.

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Michael Leadbetter

SAP Banking Summit, Cartagena **September 8-9 2017**

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Euromoney Institutional Investor Pearson Inc Kaplan Inc

/// Faculty/Advisor EXO Works The Princeton Review Singularity University



eloworks



- **Exponential Organizations Sprints**
- P&G, Ike Asistencia, Rassini, City of Medellin

Exonomics **Crypto Currencies** Adaptability Quotient

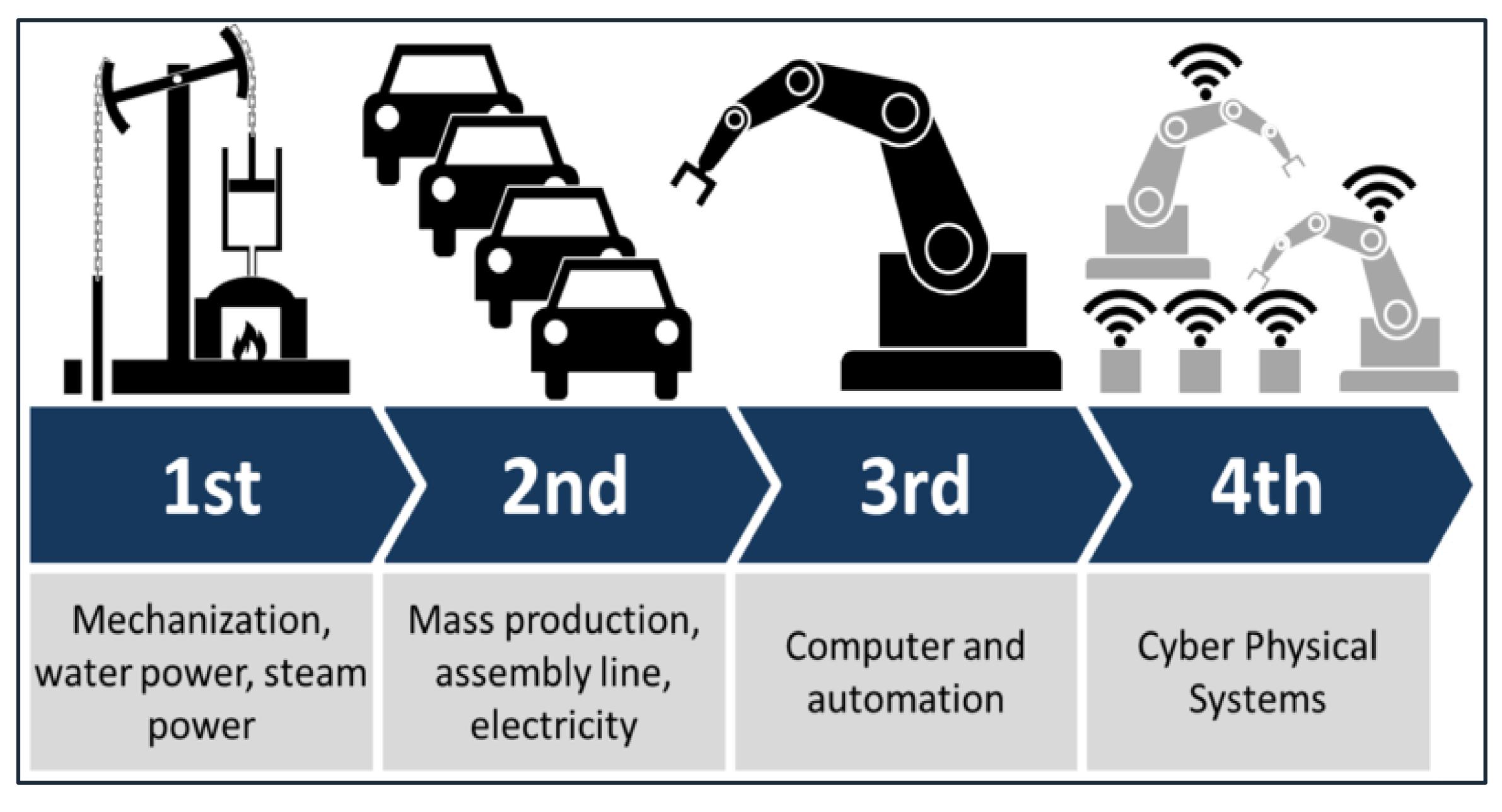


Exponential technologies Grand Global Challenges





Exponentially Developing Technologies



4th Industrial Revolution - Physical, Digital, Biological lines blurred

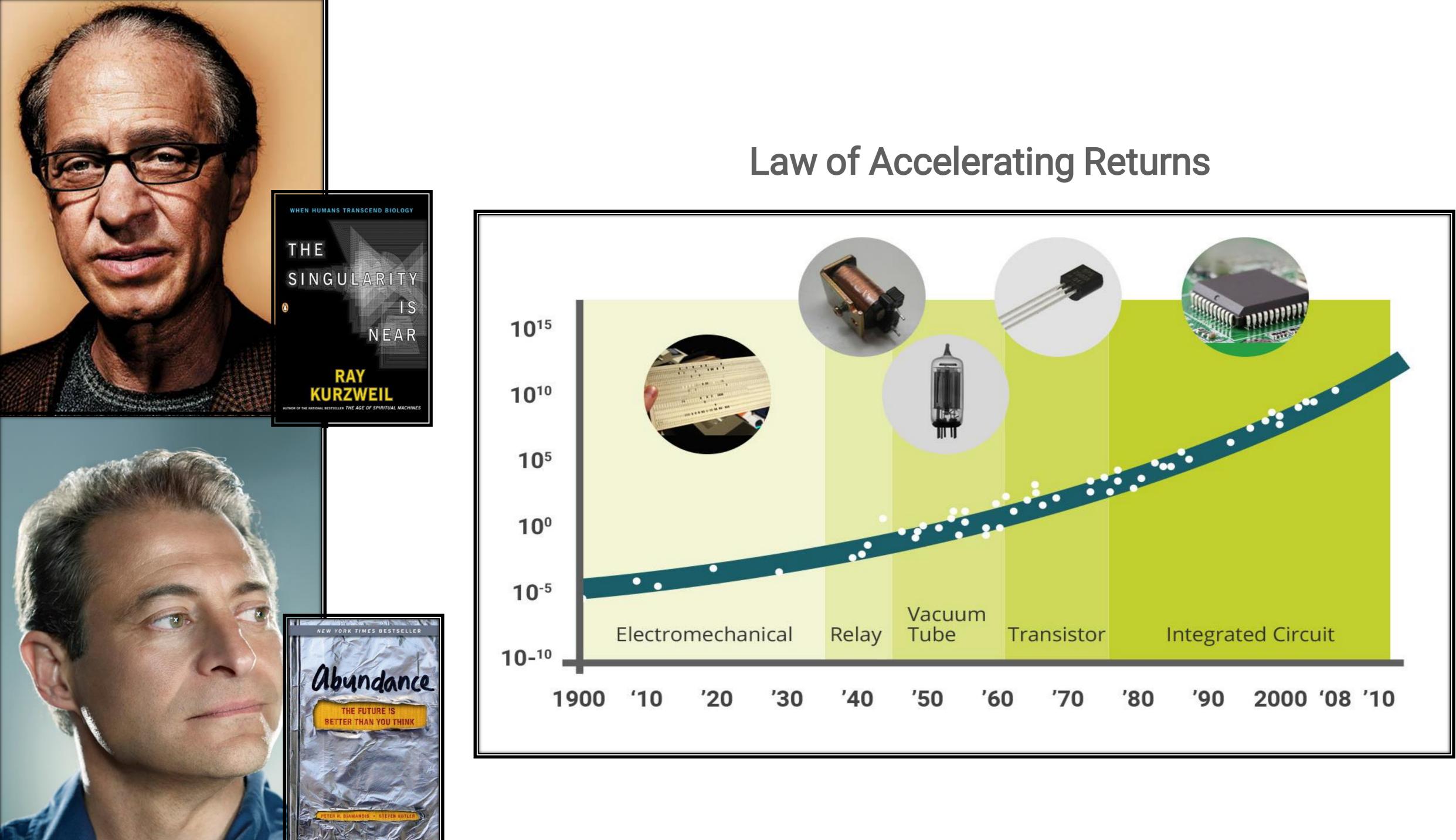
NASA Autodesk Genentech

SIGUERSITY

Google Cisco Nokia

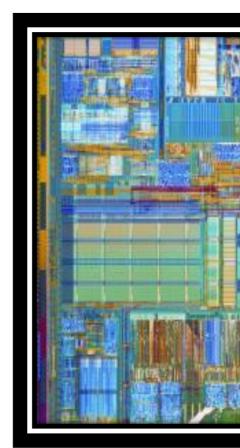
NASA Research Park, California





First Circuit Board 2 transistors

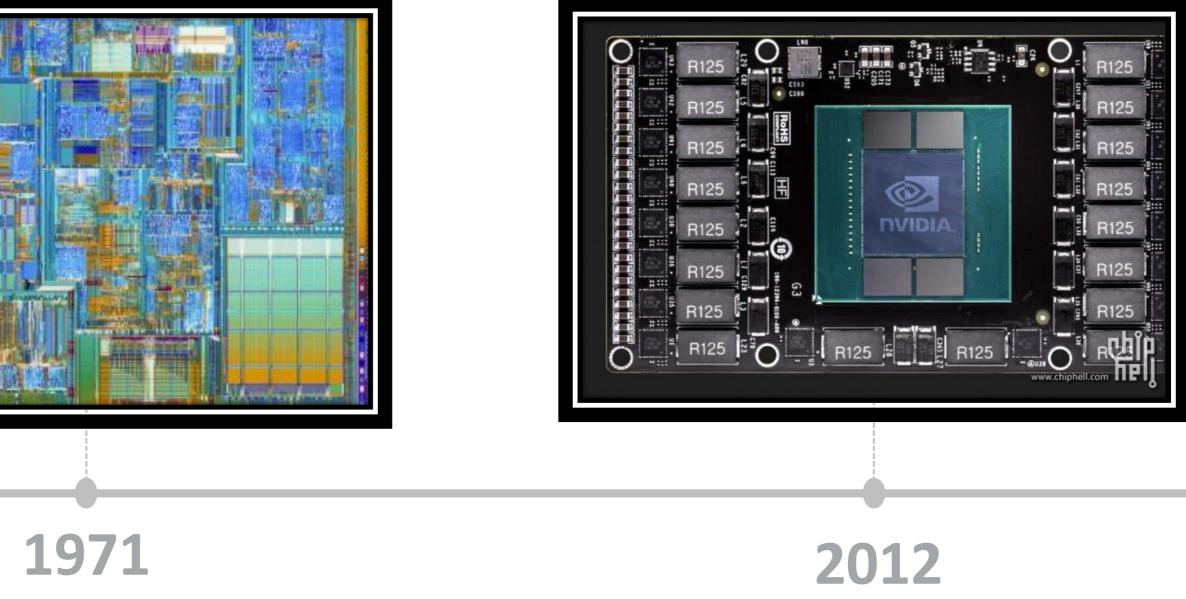
1958



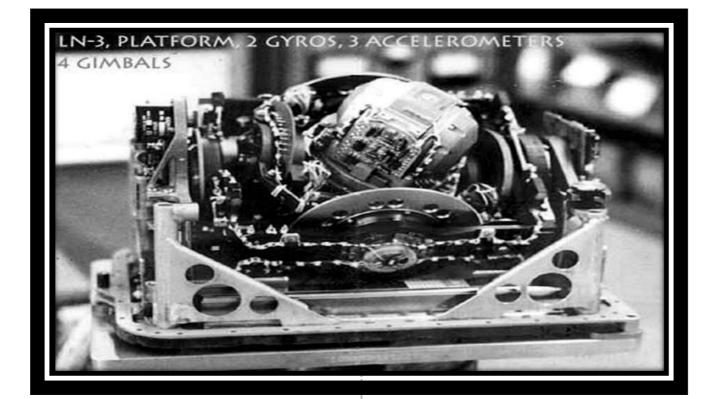
1958

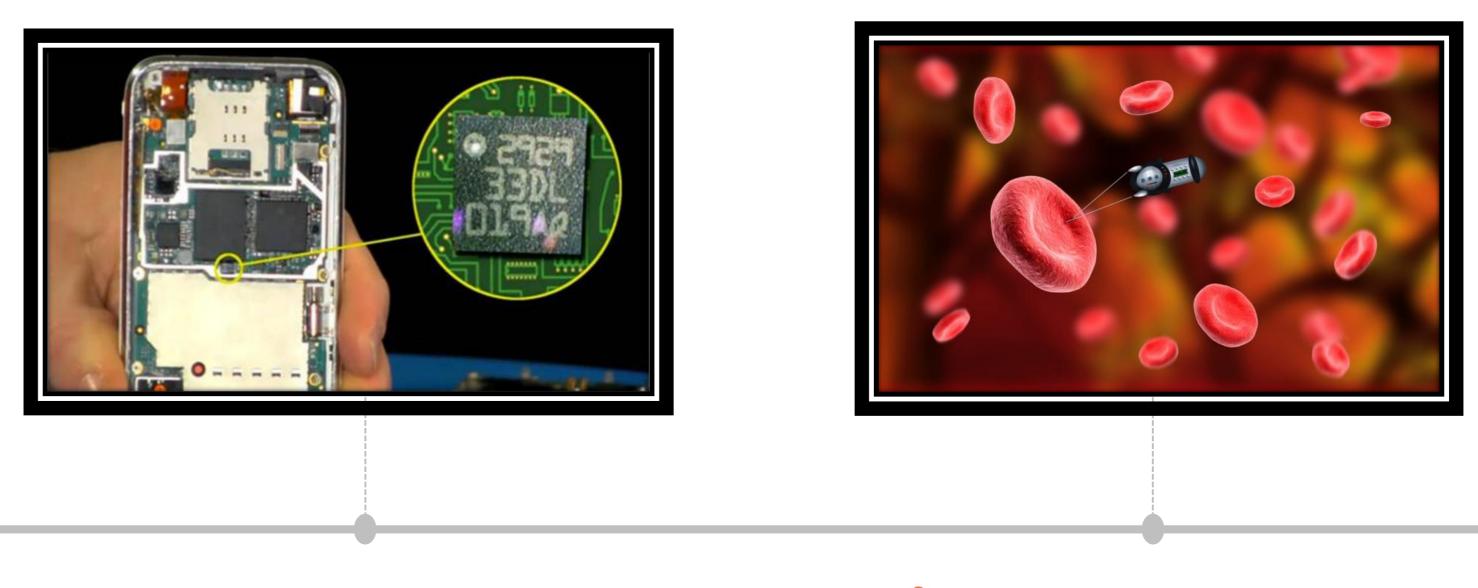
Intel 4004 2,300 transistors

Nvidia's GPU 7.1 billion transistors



Intertial Measurement Unit





Today

Smart Sensors

• Scripps

3D Printing **Artificial Intelligence Computers & Networks Digital Medicine** Nanotechnology **Robotics** Synthetic Biology





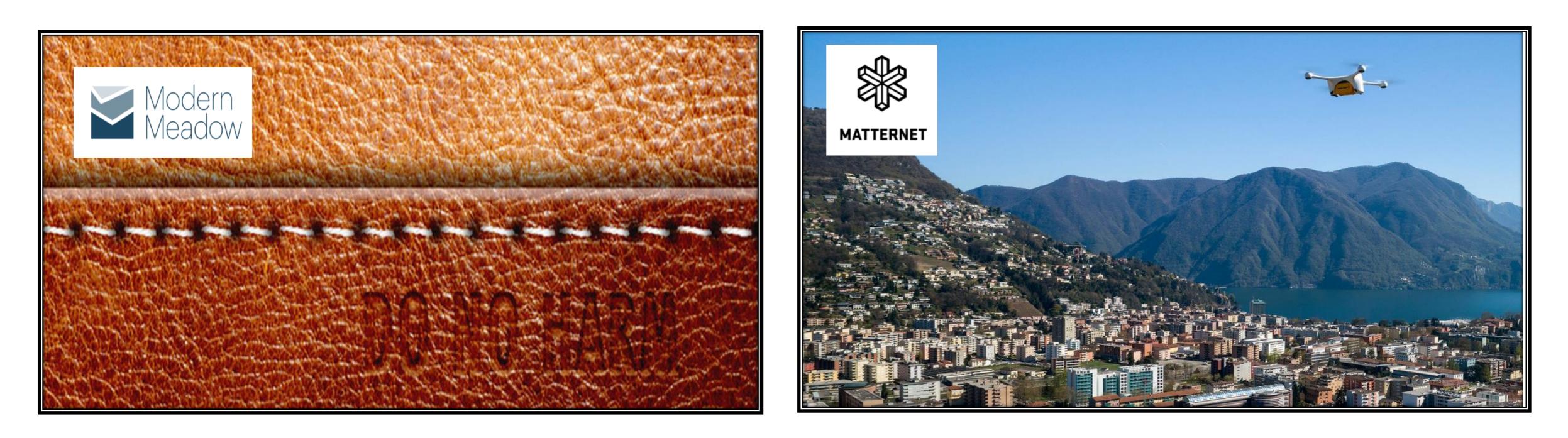














Be My Eyes

Lend your eyes to the blind



Before

75% little to zero awareness of breakthroughs





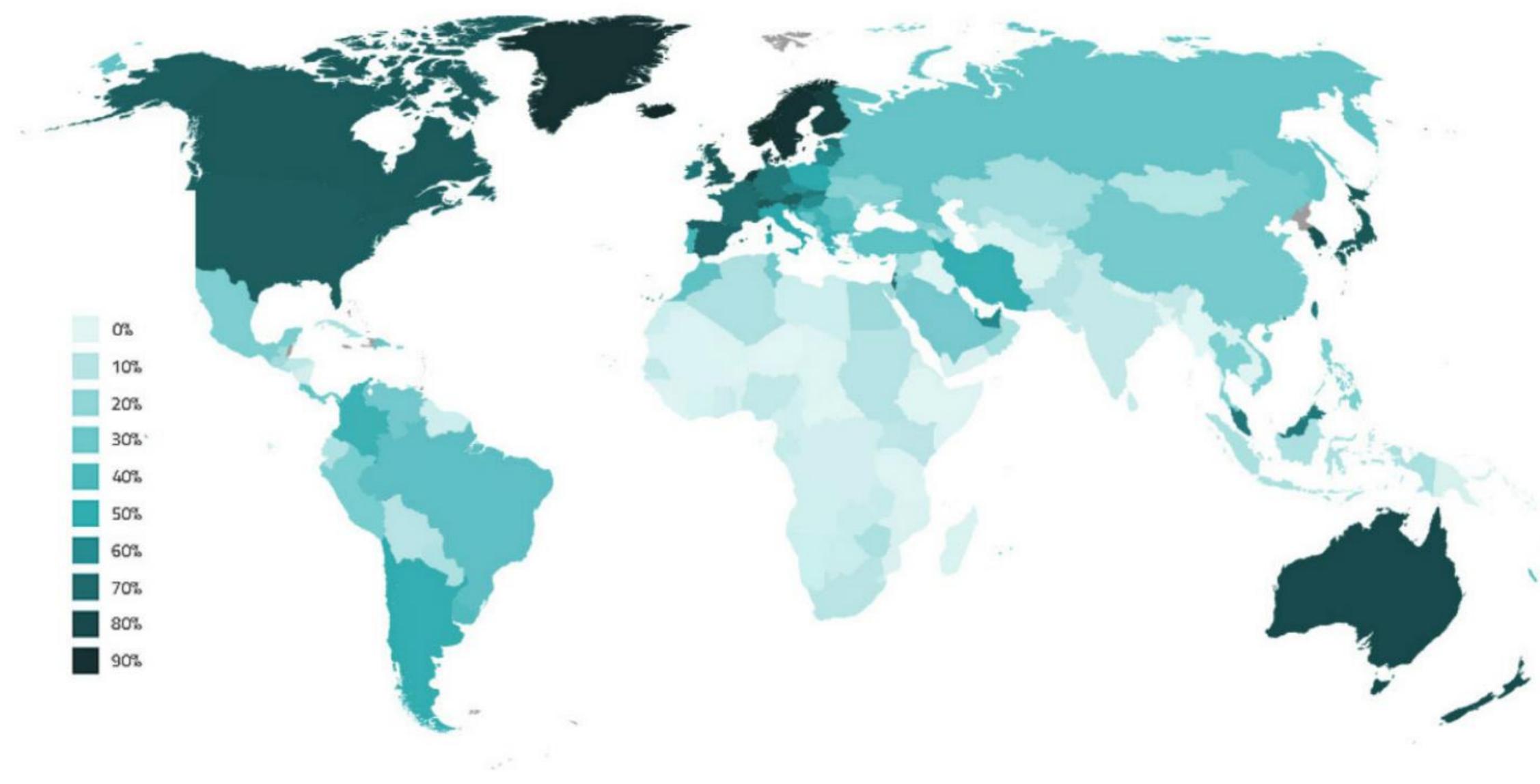
After

80% expect game changers in 2 years 100% in 5 years

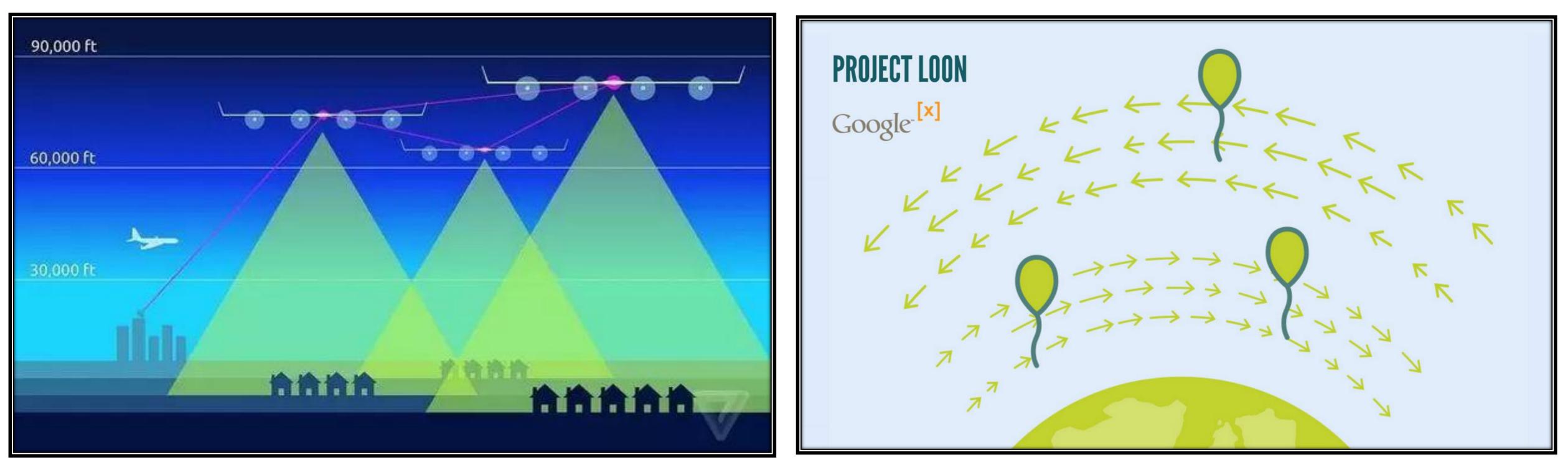




Worldwide Internet Penetration







Acquila

- Solar aircraft and lasers
- Radio internet coverage

Google^[X]

Project Loon

- Network of balloons
- Navigates on jet streams











proteus® DIGITAL HEALTH

.) · Scripps



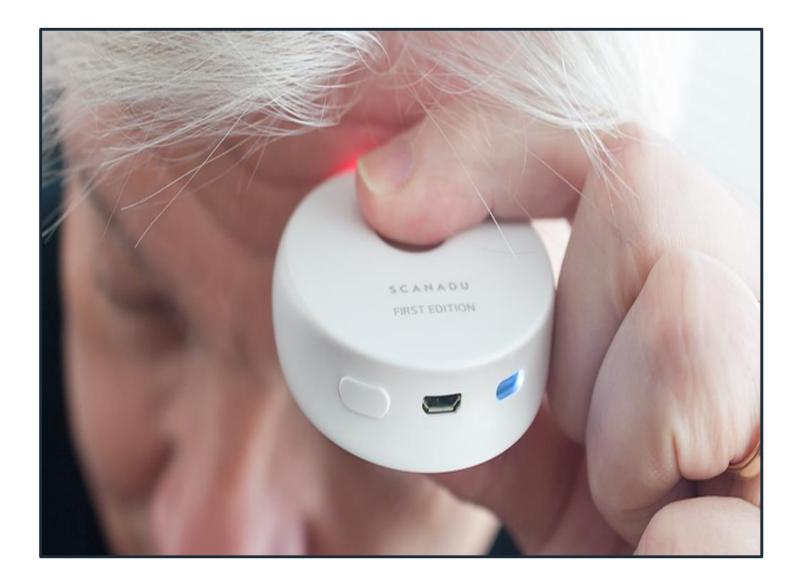




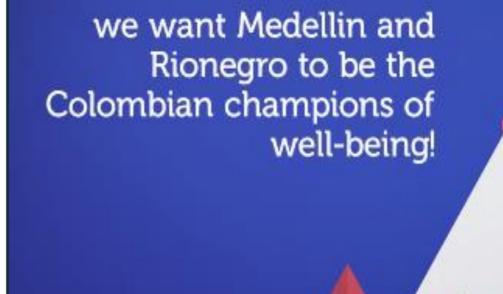














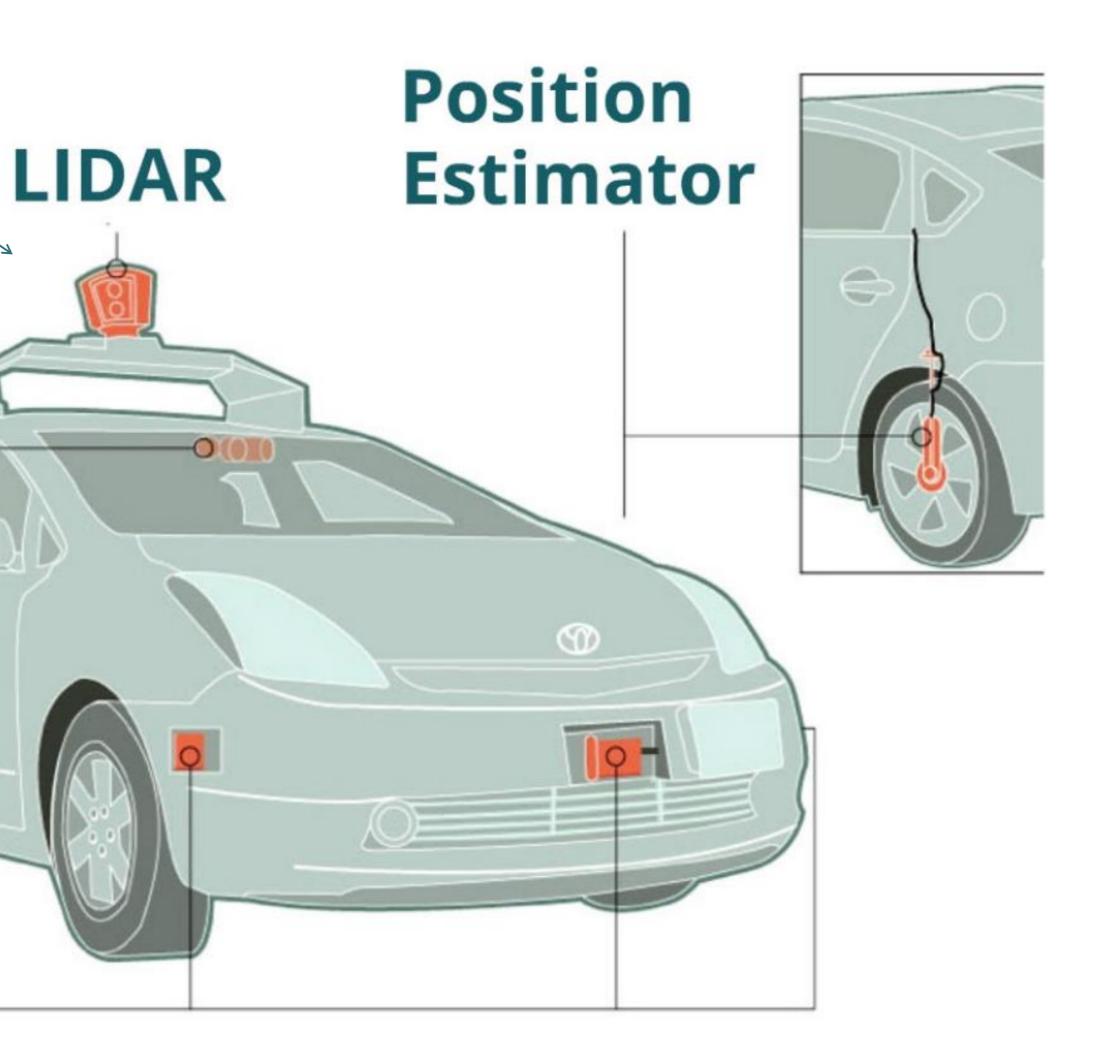




LIDAR price \$75,000 - >\$1,000

Video Camera

Distance Sensors



300,000 robotaxis are needed in Singapore



780,000 cars currently used in Singapore



VS









Disruption

PHASES OF DISRUPTION



Deceptive



Digitized





Disruptive

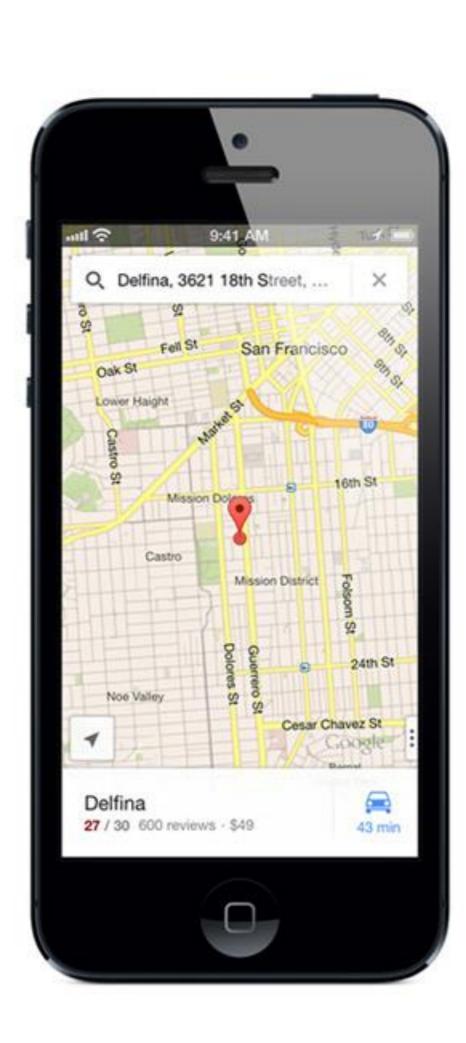


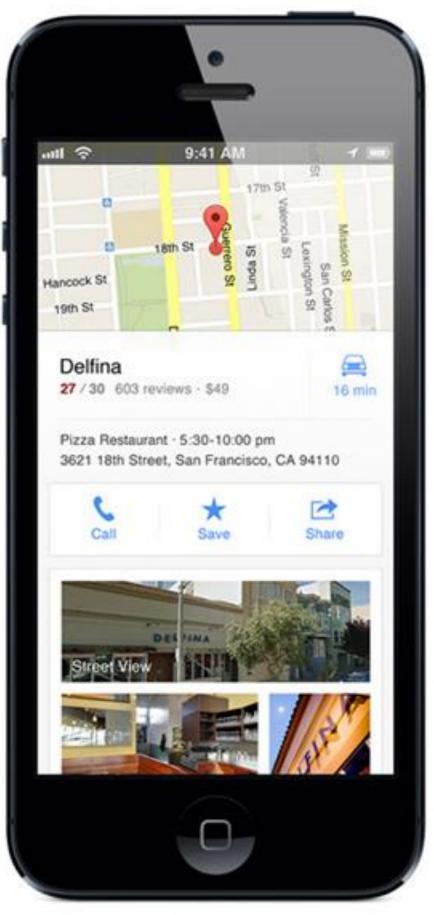


Dematerialized Demonetized Democratized



DIGITIZED





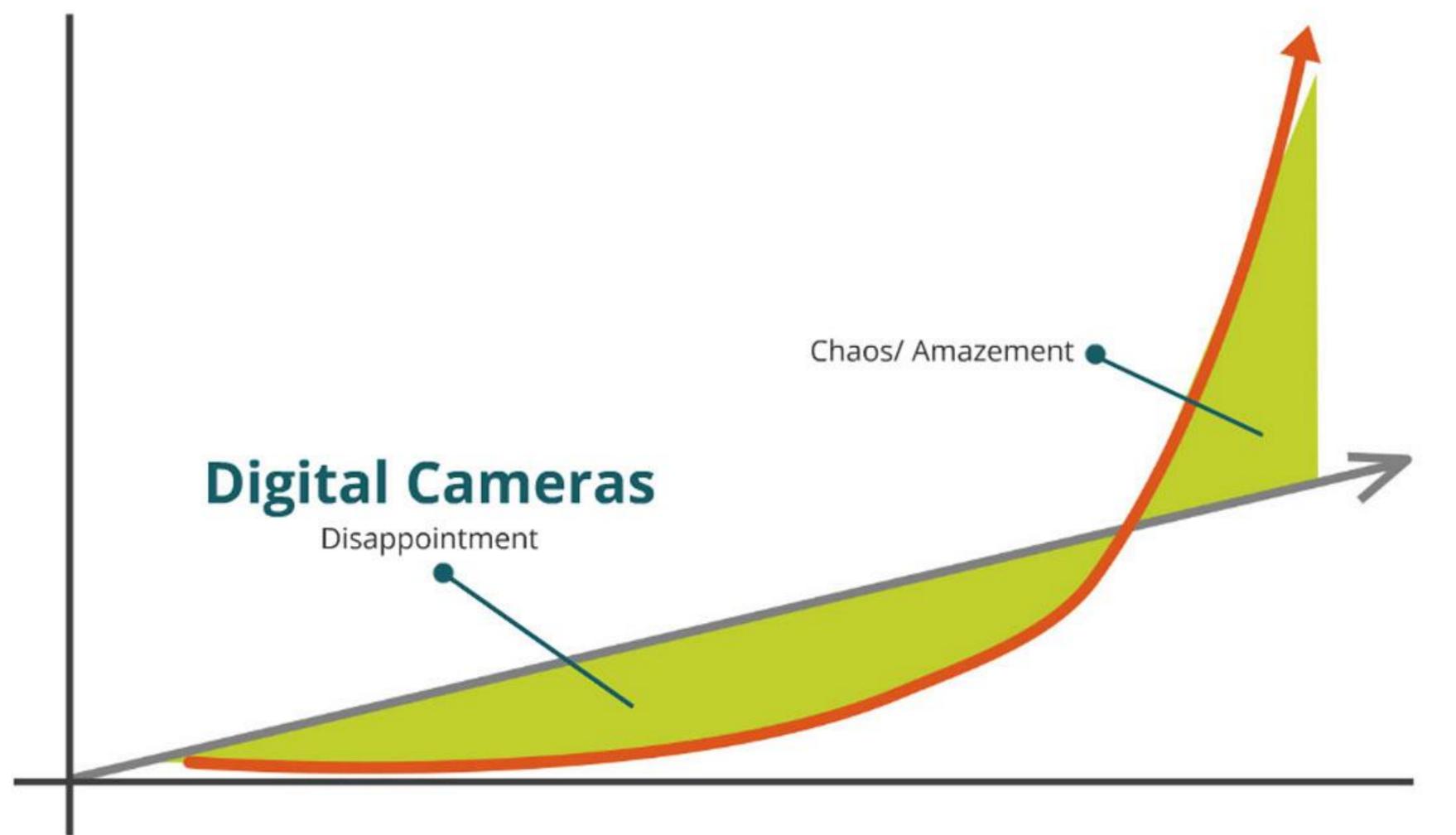


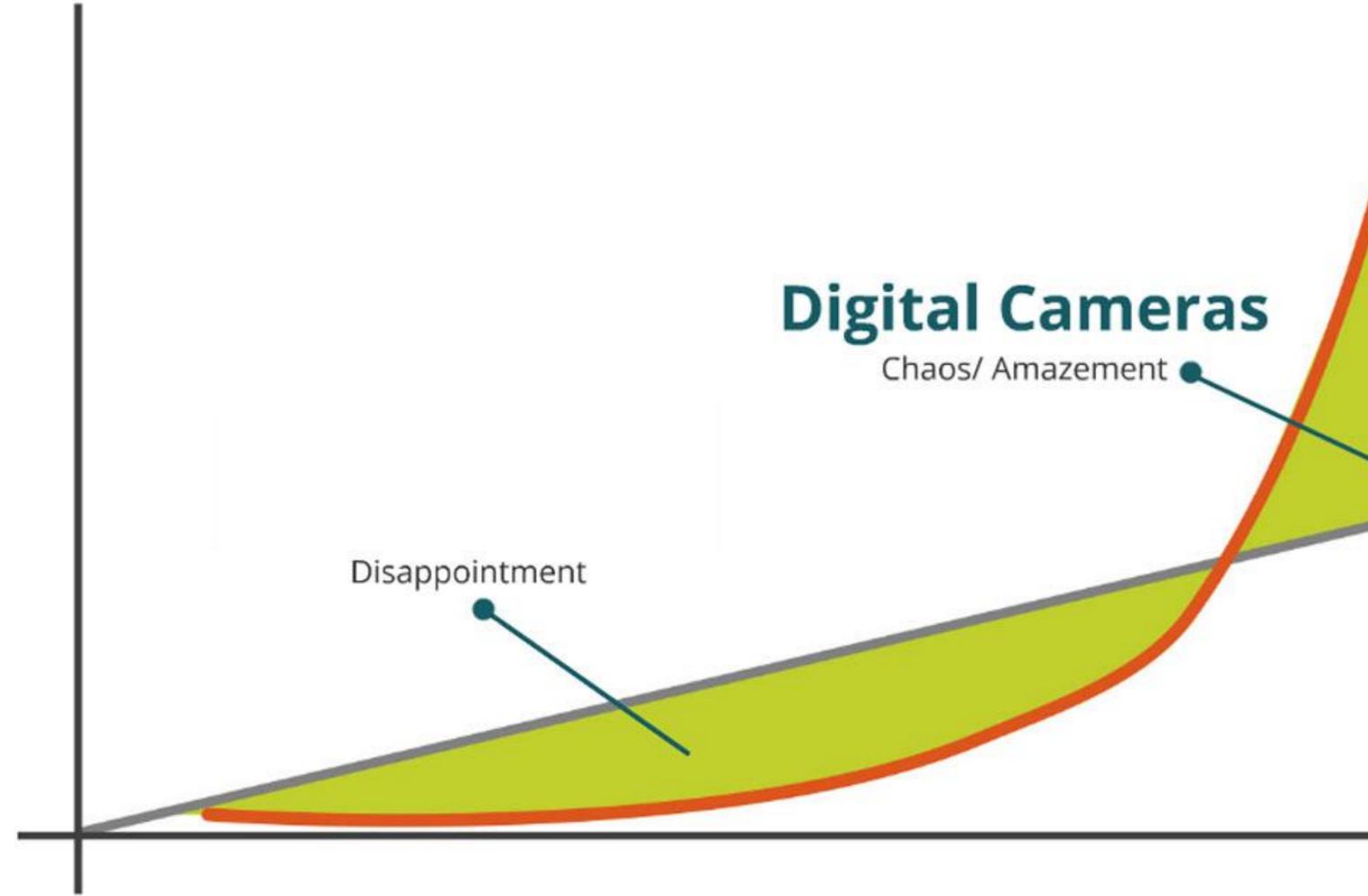


Digital Cameras

Disappointment

DECEPTIVE







Digital Cameras Chaos/ Amazement

DISRUPTIVE









DEMATERIALIZED



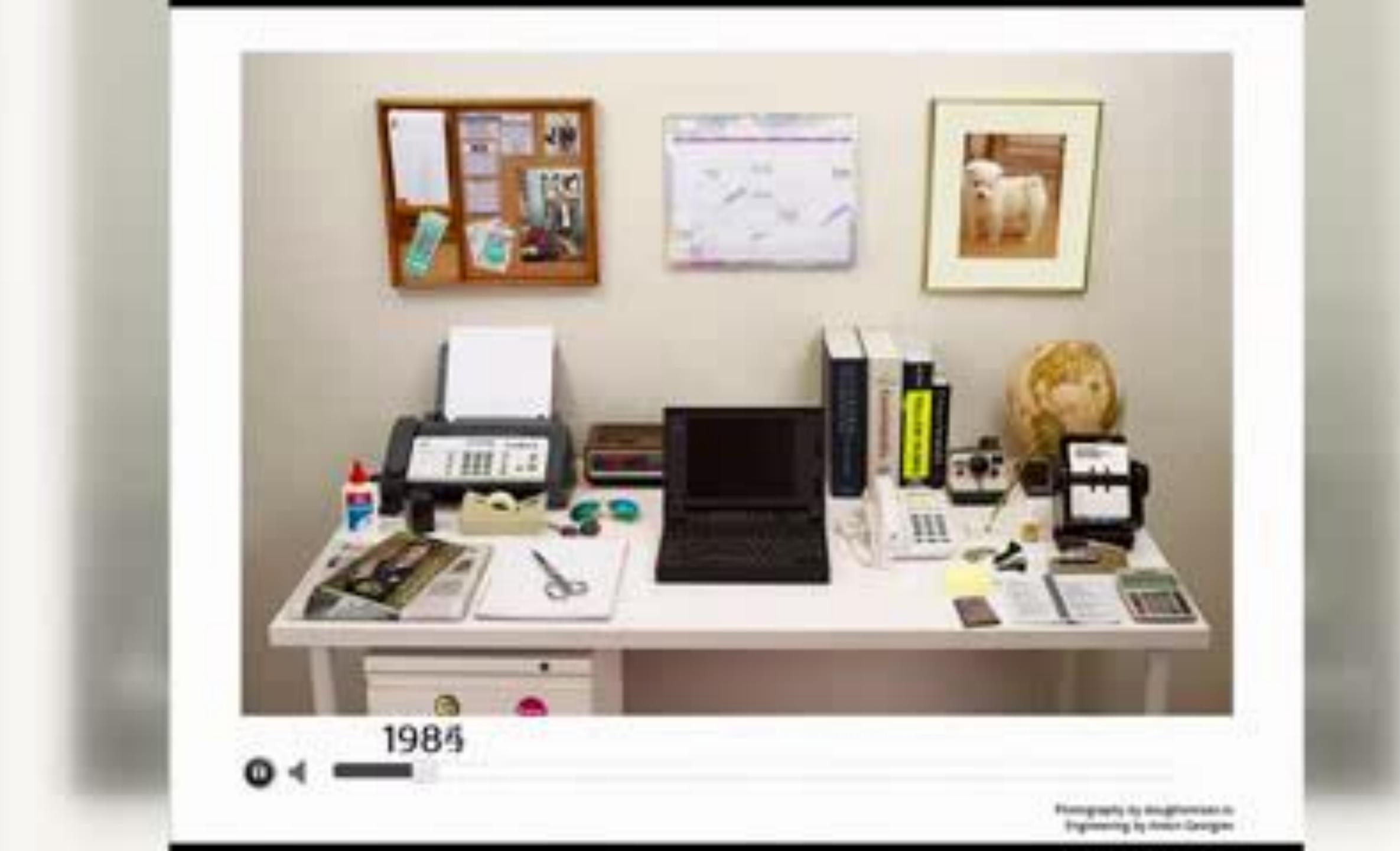




GiTunes















craigslist





DEMOCRATIZED







BOB'S PHOTO



1970's

Digital cameras in development

- Scarcity of camera ownership
- Scarcity of photo's per person
- Deceptive



"Thousands more photographs being taken, I only need 1% to be printed."

"More *perfect* shots that must be printed".

"I provide more services."

"Revenues almost back to pre-digital camera levels."

Digital cameras in abundance

- Abundance of device ownership
- Abundance of photos per person
- Everyone a photographer
- Online sharing
- Shift in problem set, (scarcity to abundance)
- Digitized, disruptive, dematerialized, demonitized, democratized





Digital is the main reason just over half of the companies on the Fortune 500 have disappeared since the year 2000

Pierre Nanterme CEO of Accenture

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

David Rose



Improving Internal Functions



\$1Bn budget for technology improvements



Automate 80% of functions Reduce 10,000 jobs by 2020

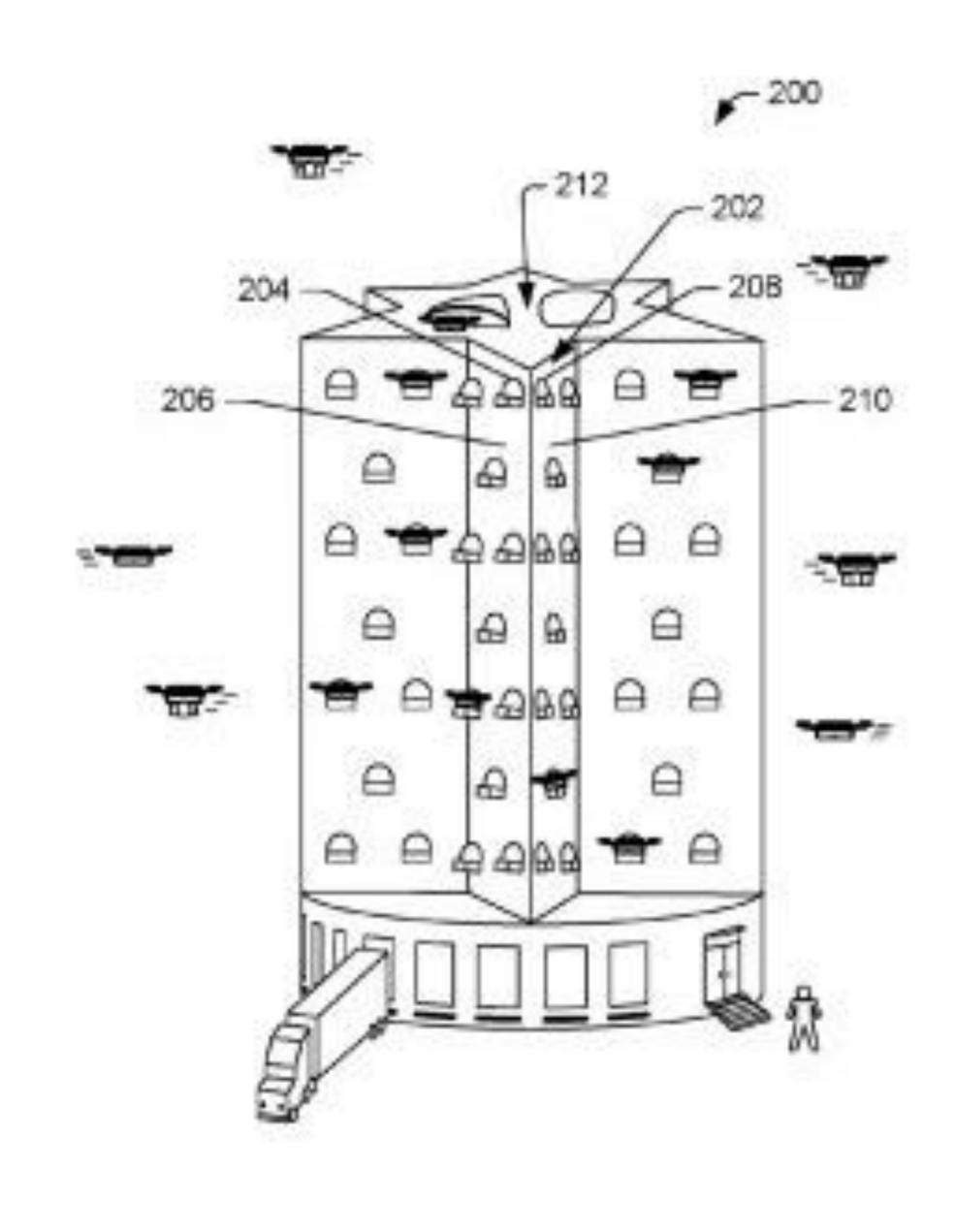


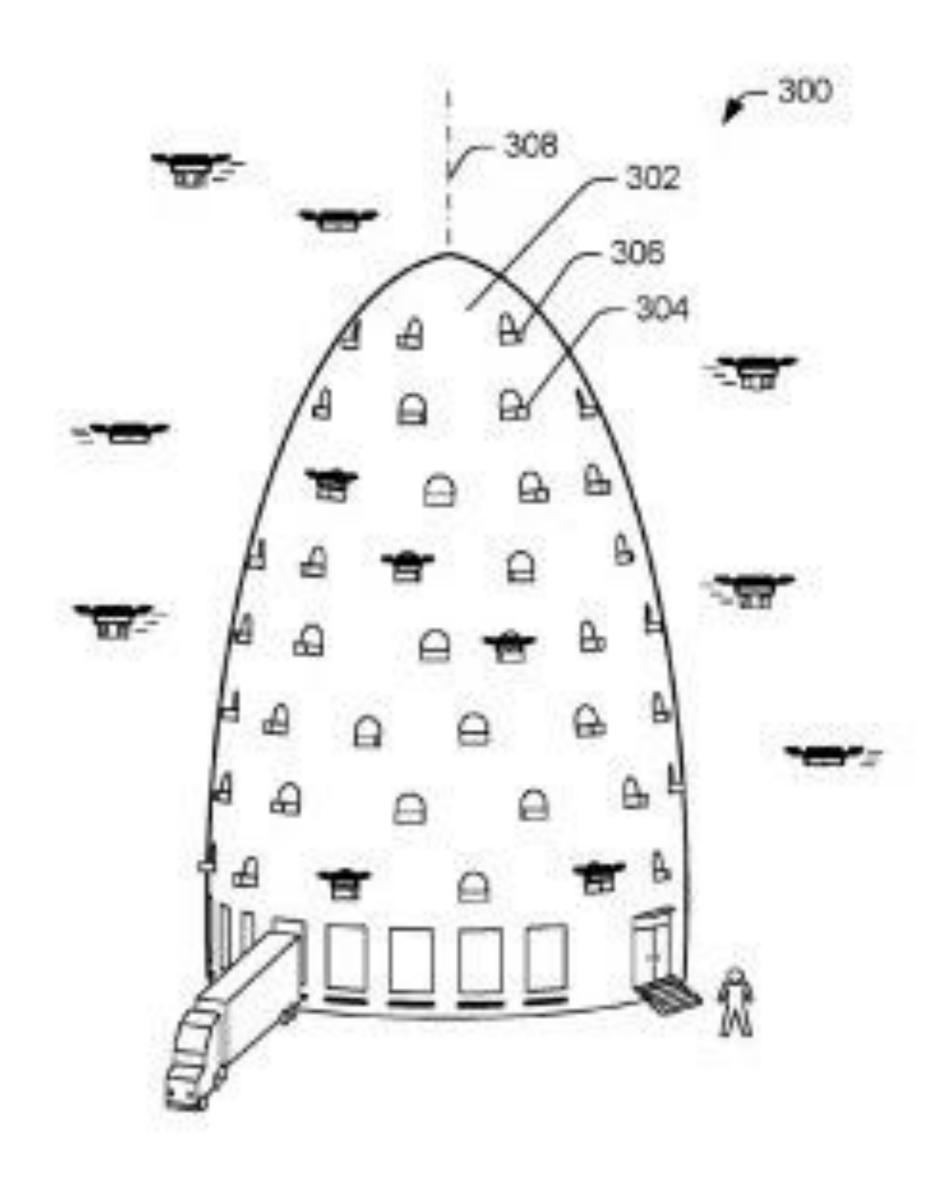
Machine learning in recruitment 240,000 applications for 1,400 roles



Artificial intelligence in customer service Recognizes human emotion

Internal operations and customer ease of use

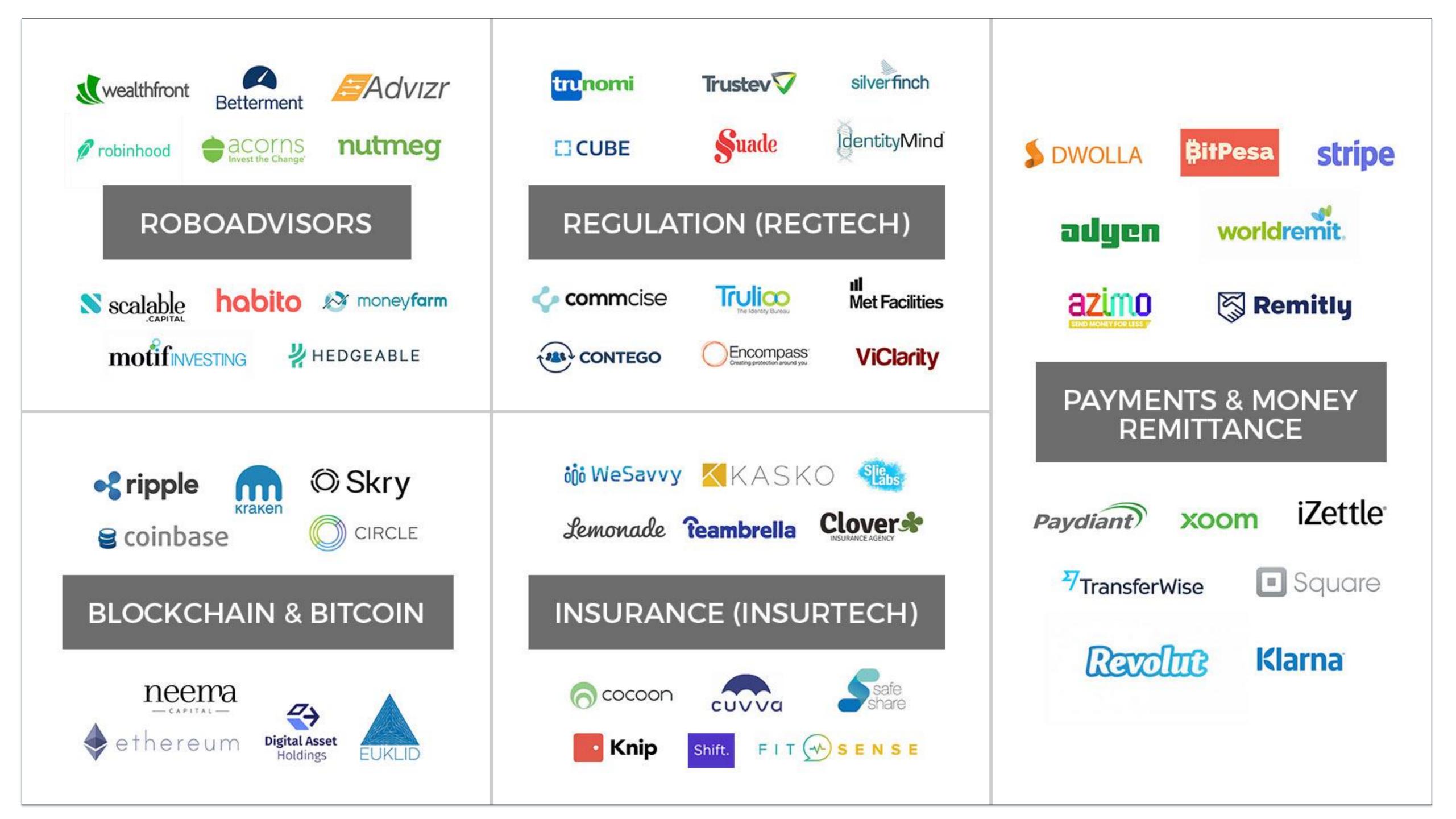


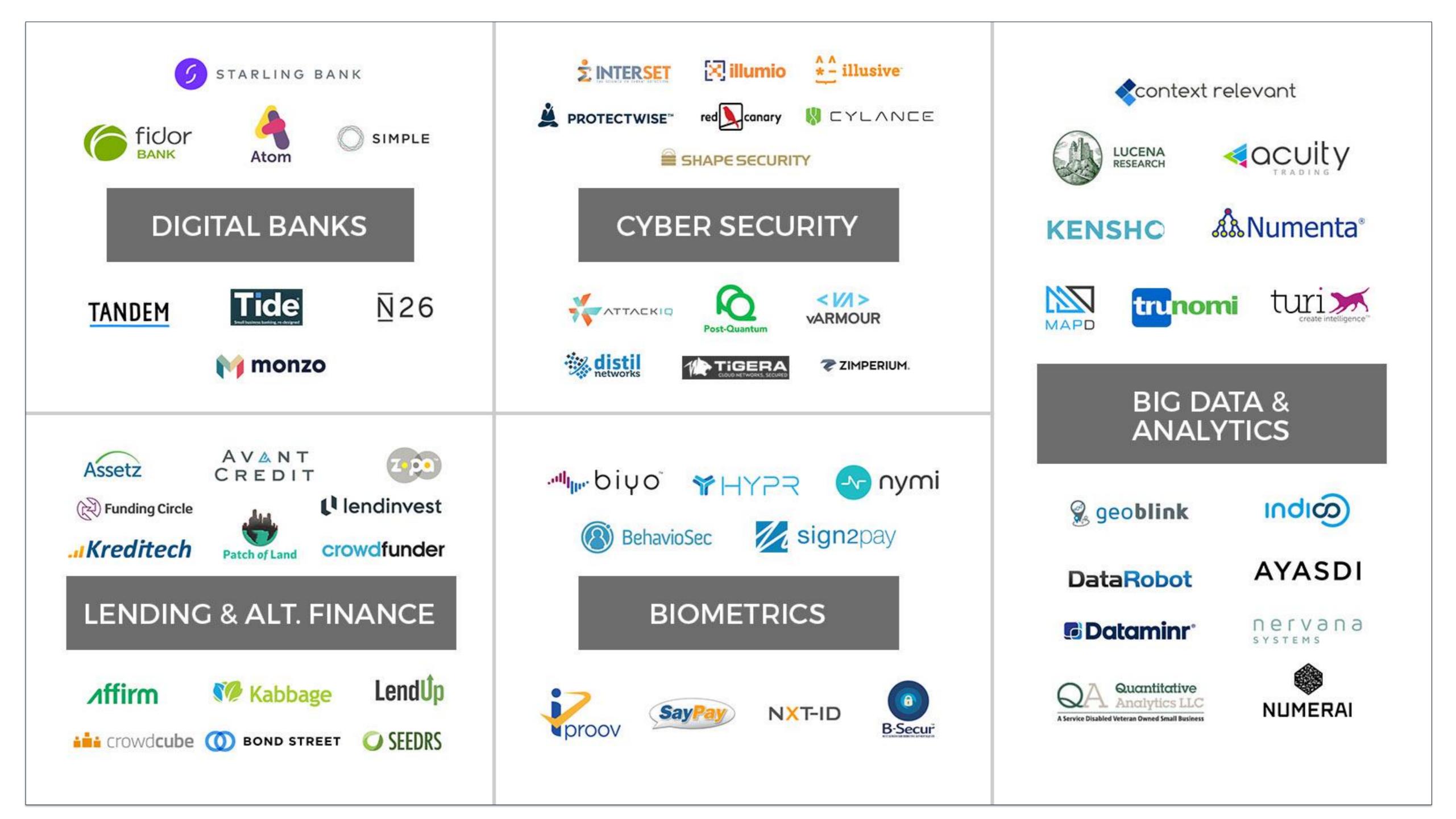


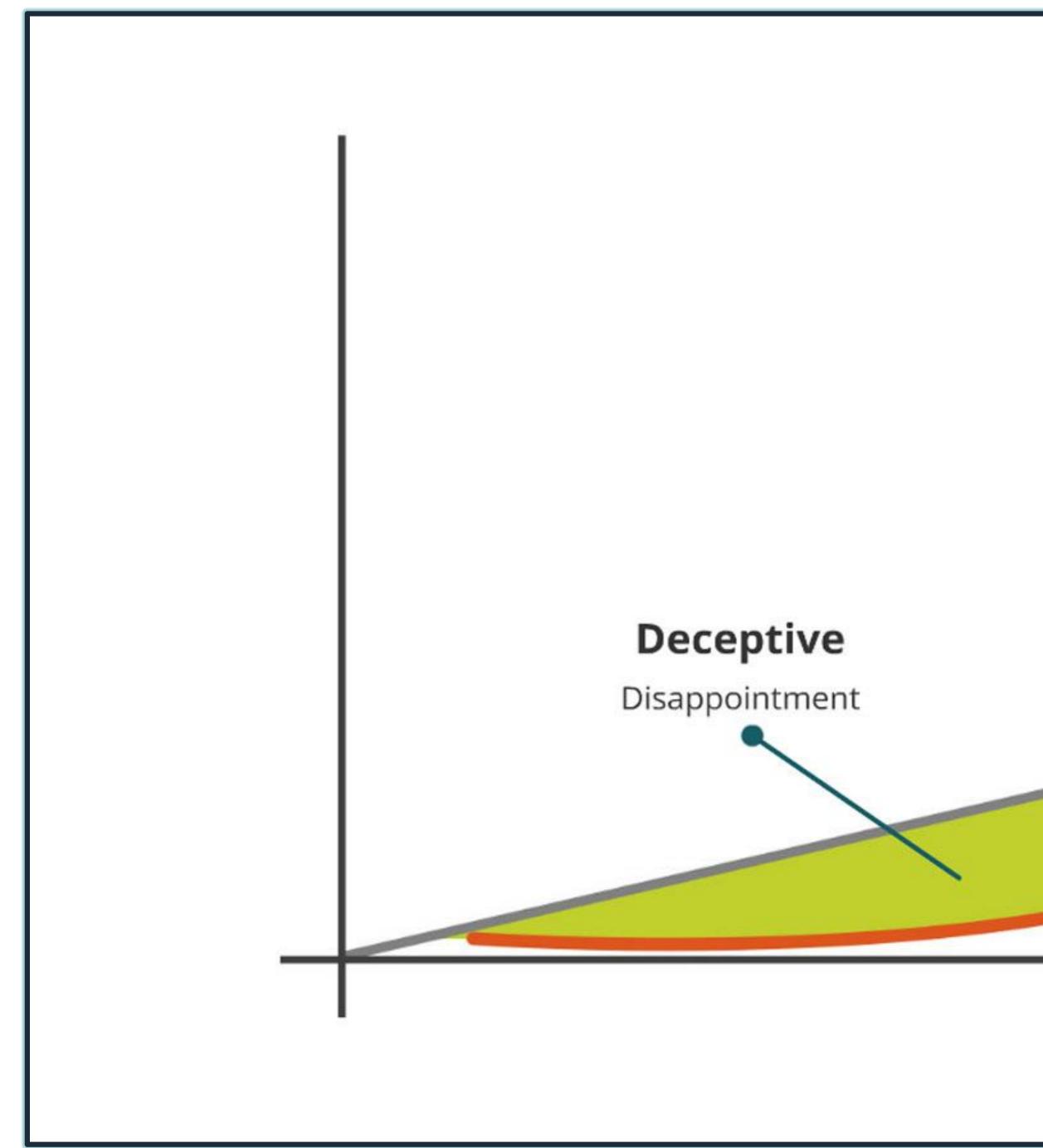


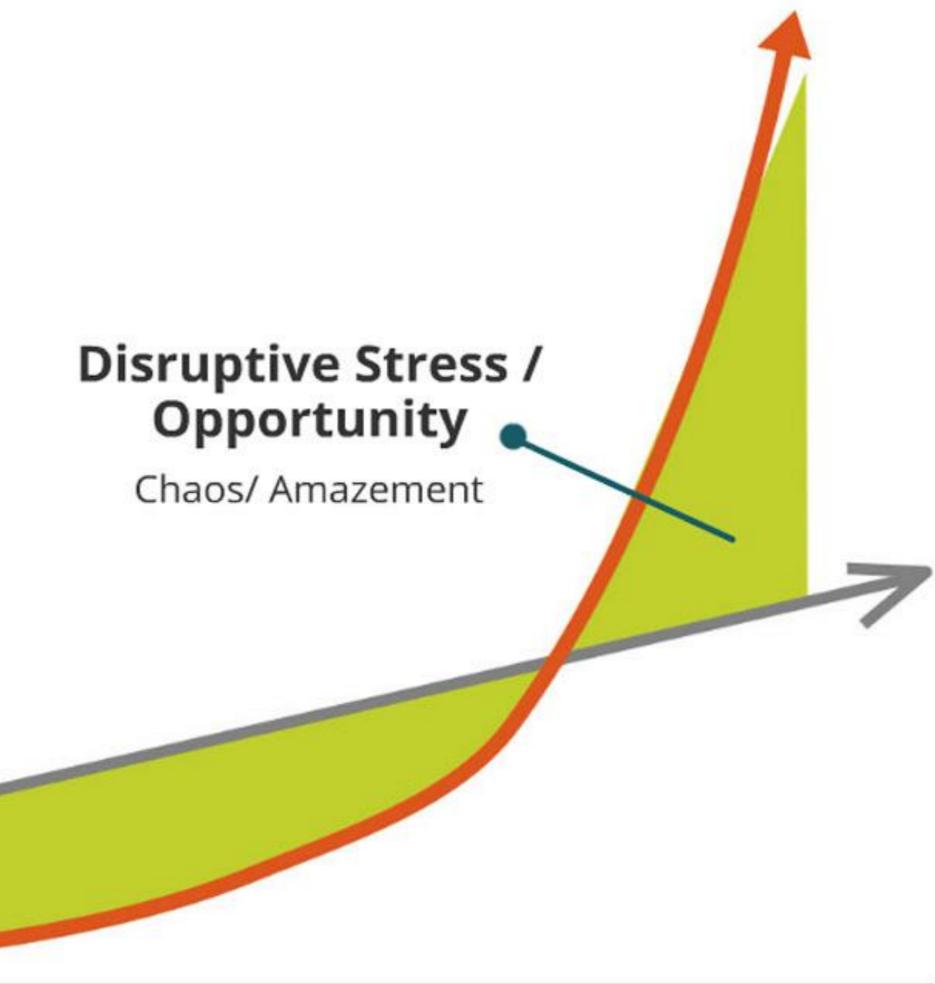


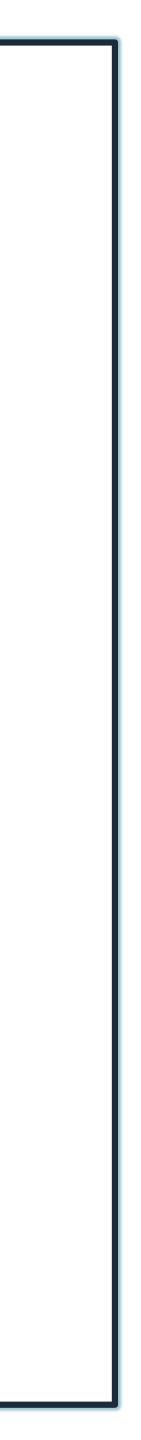


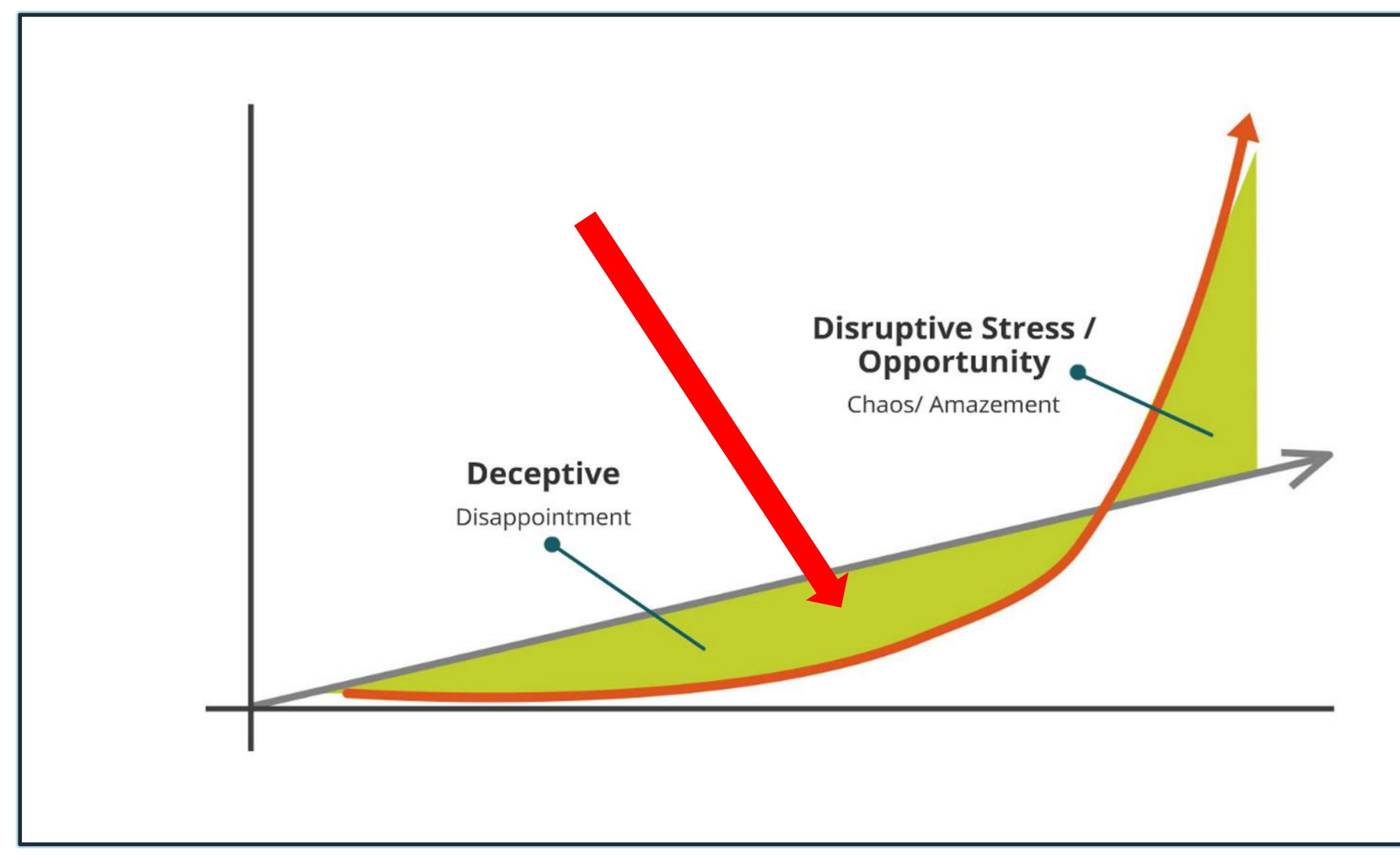


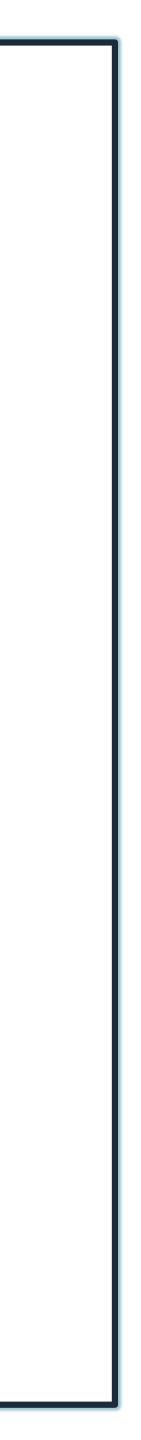




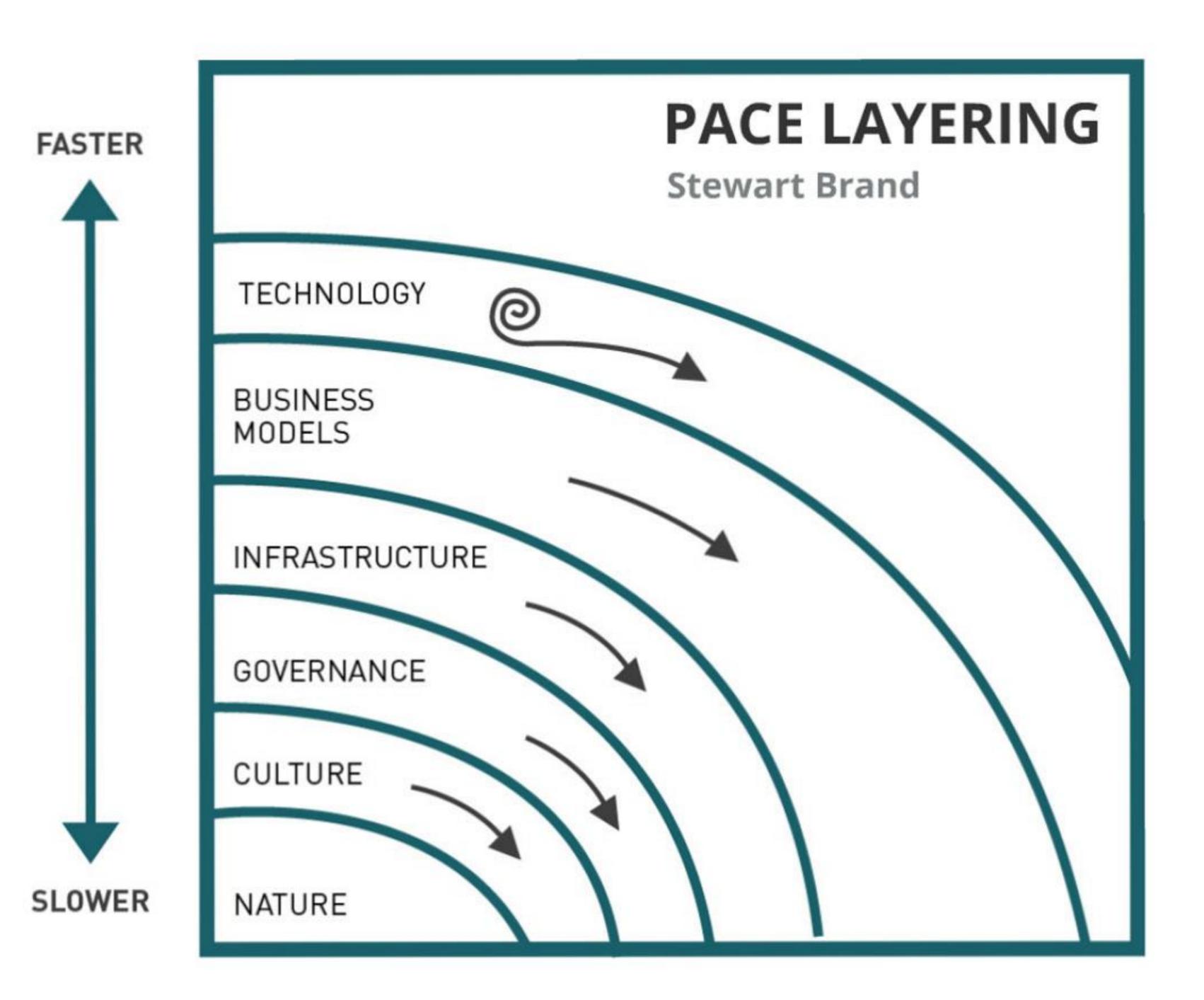








Social Change & Discomfort





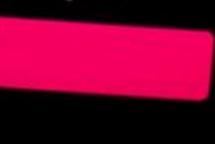




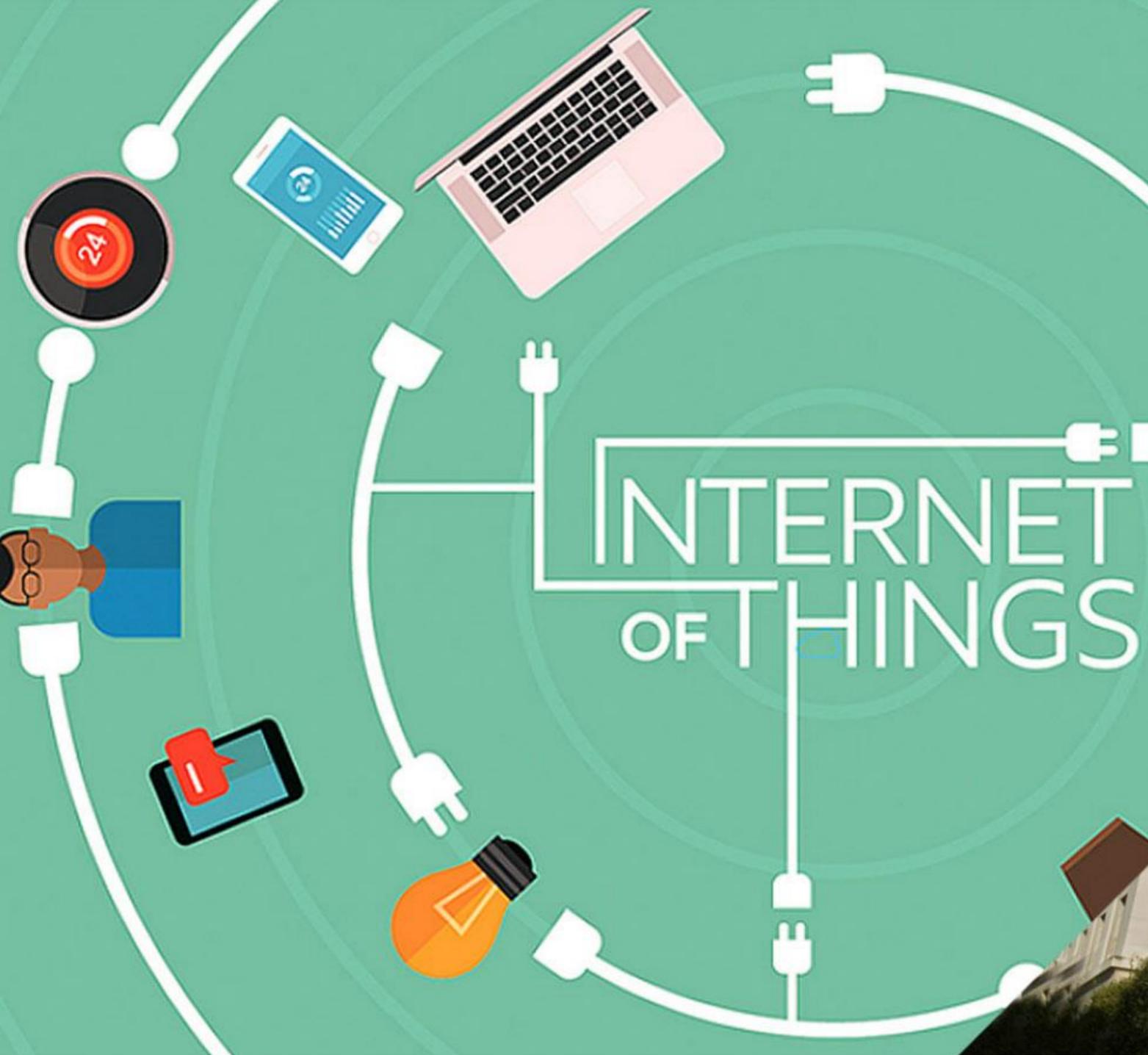


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U.S. Department of Transportation

Google

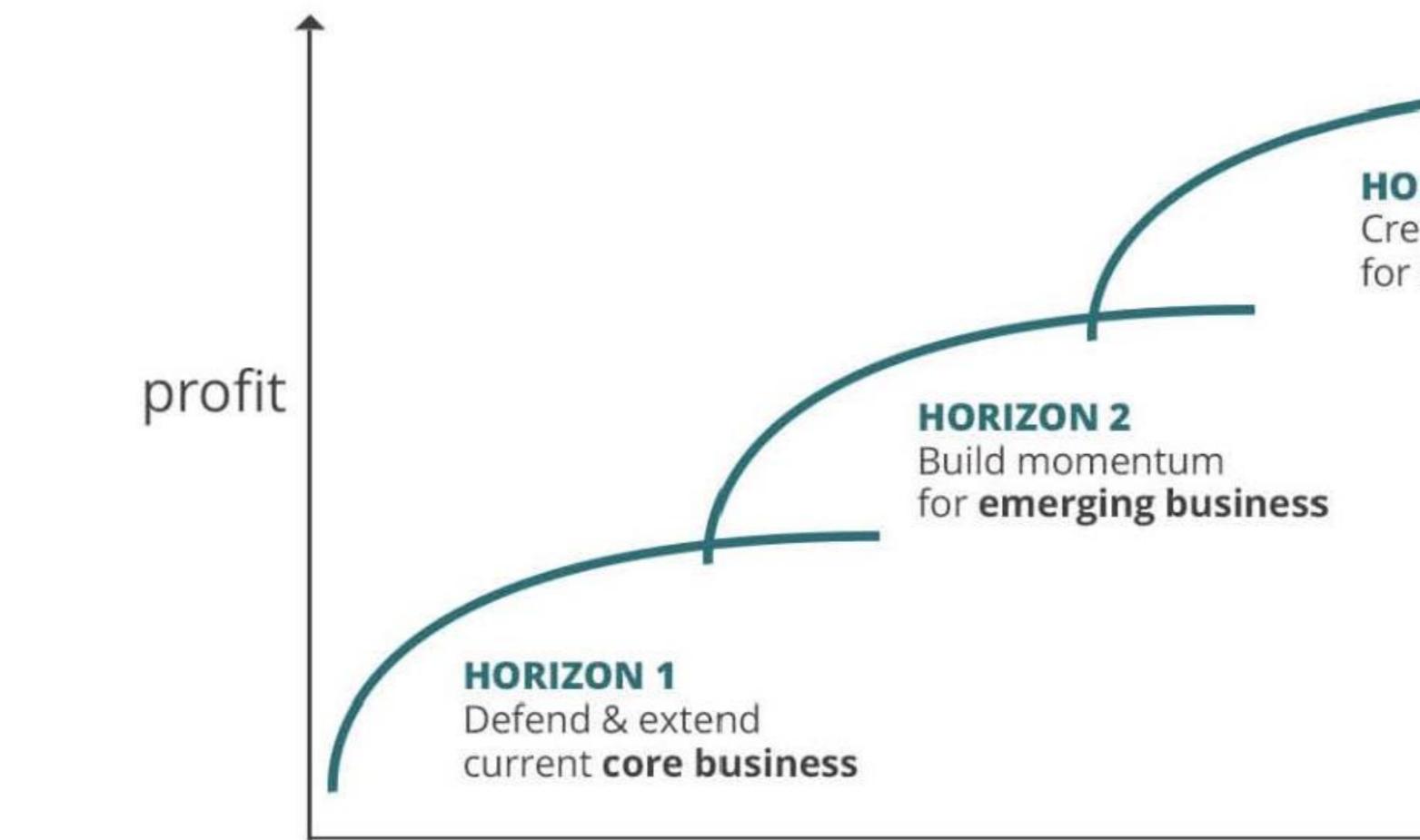




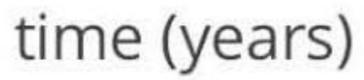


What To Do About It

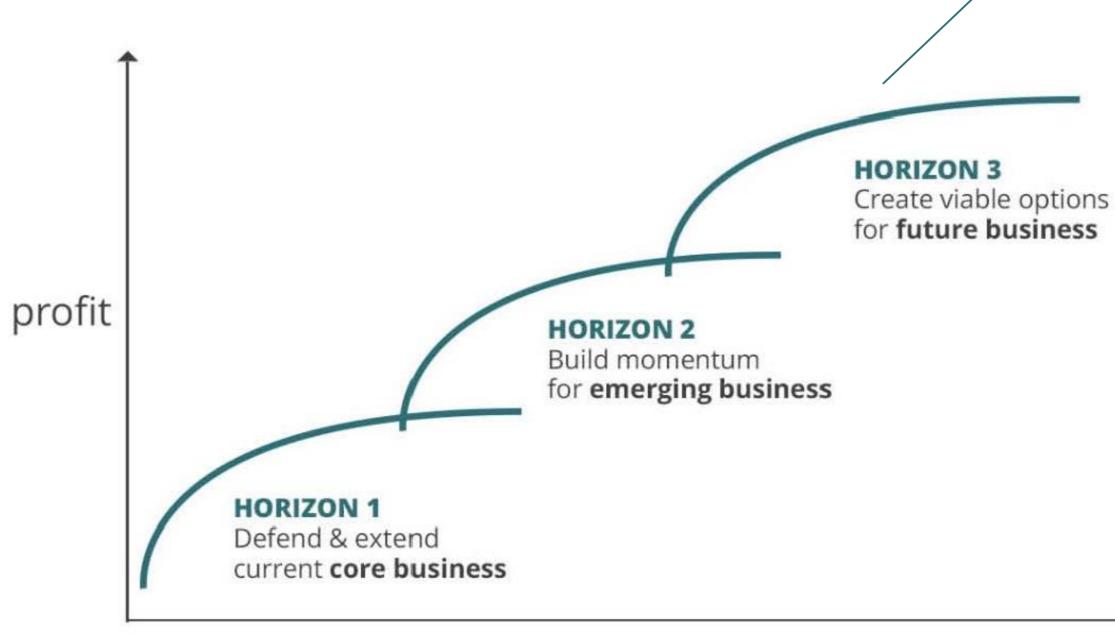
THREE HORIZONS OF GROWTH

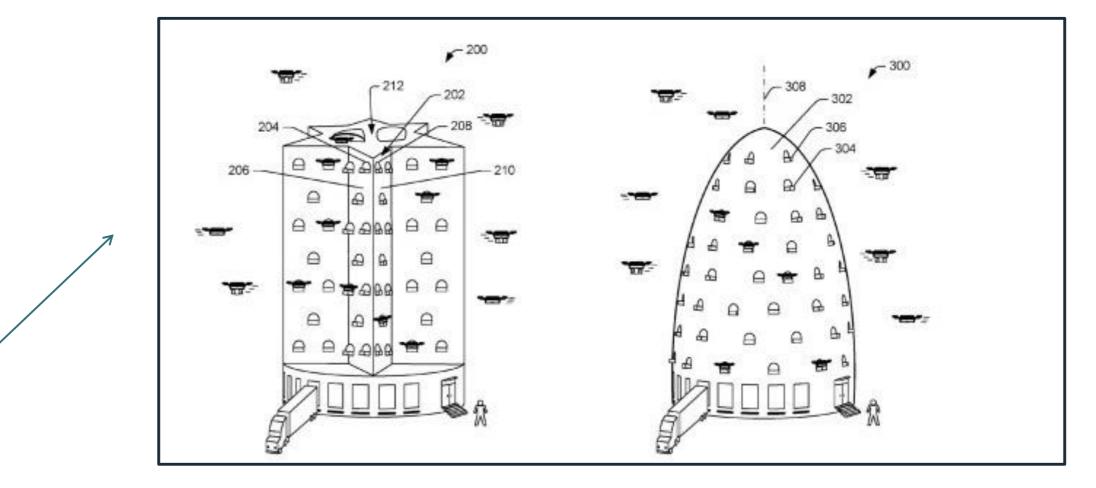


HORIZON 3 Create viable options for future business



THREE HORIZONS OF GROWTH







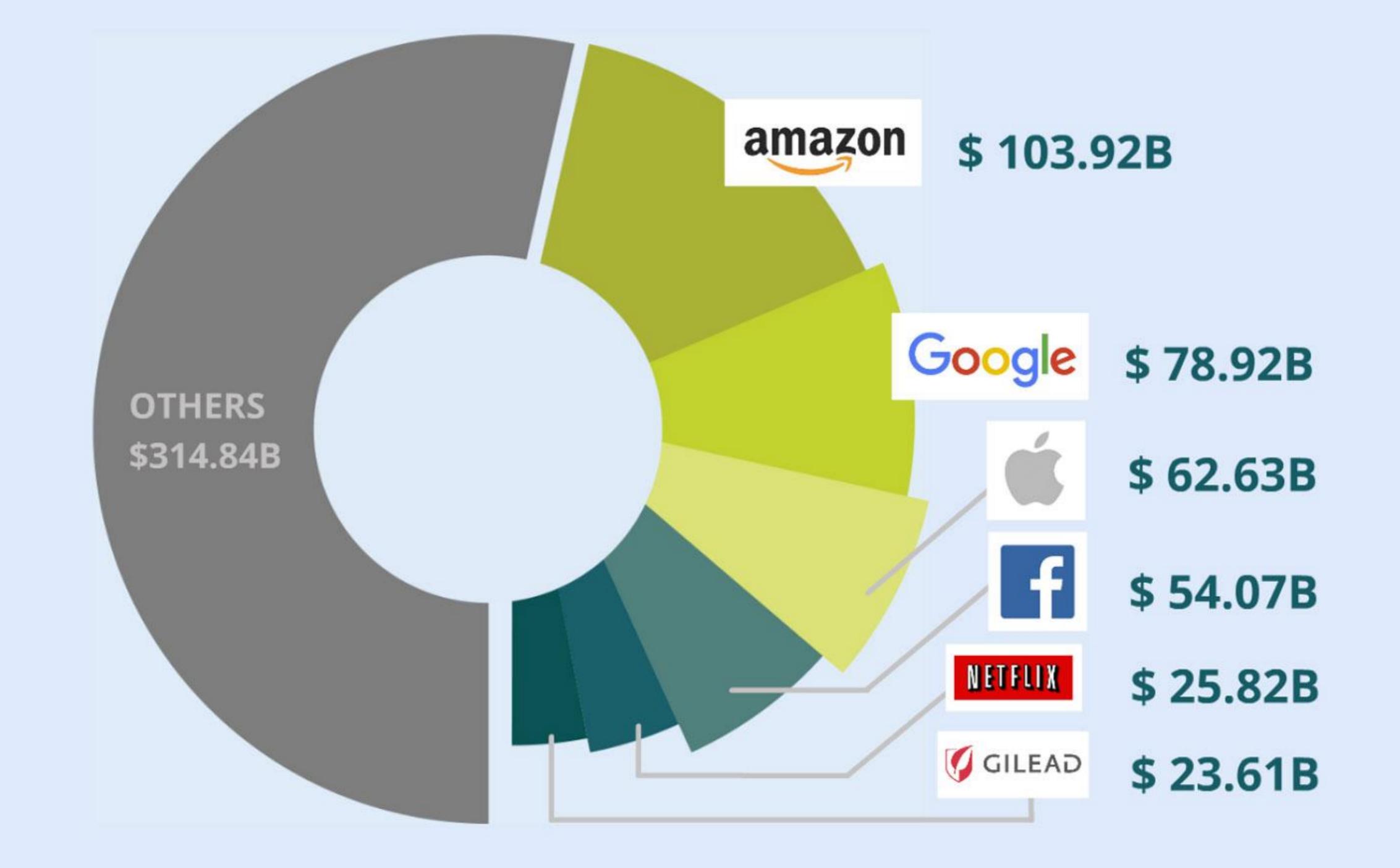


EXPONENTIAL Organizations

Why new organizations are ten times better, faster, and cheaper than yours (and what to do about it)

SALIM ISMAIL with MICHAEL S. MALONE and YURI VAN GEEST FOREWORD and AFTERWORD by PETER H. DIAMANDIS















Employee automony 7 x more customers per employee 4 x more customer deposits per employee

Crowd engagement Global media company in 5 years

Exprimentation The Institutional Yes!

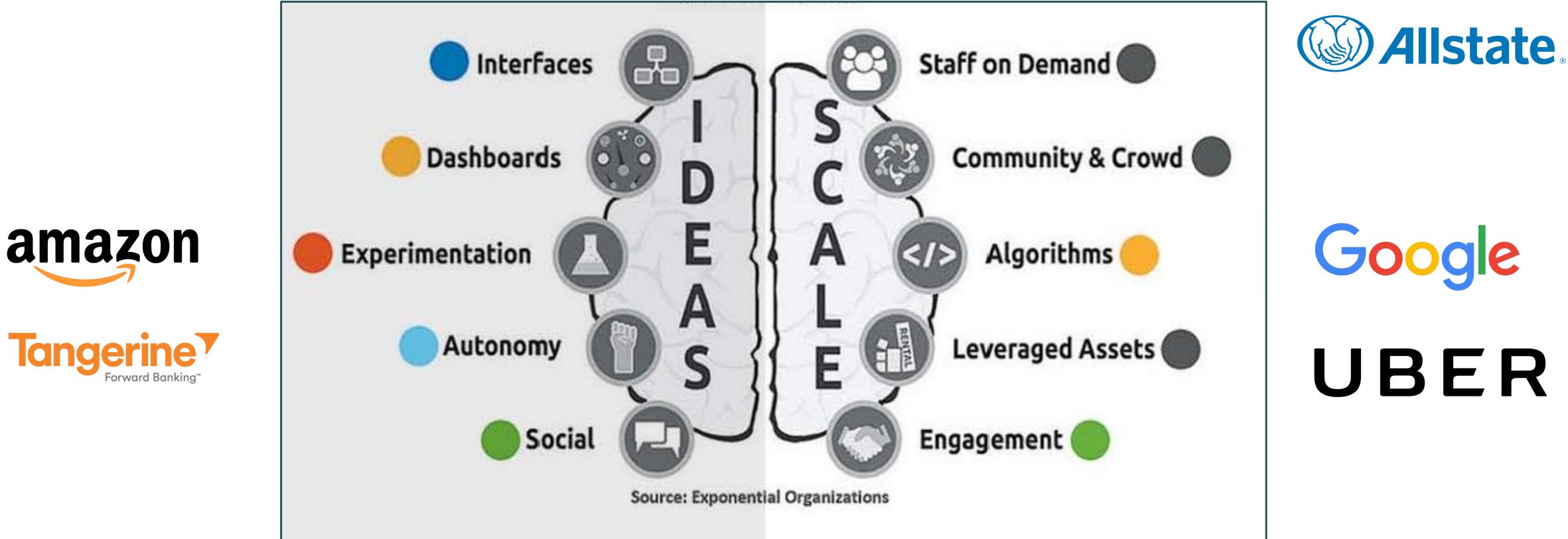
Massive Transformative Purpose (MTP)

"Positively impact one billion people" "Ideas worth spreading" "Organize the worlds information" "Solving the workforce STEM gap"



Unique Aspirational Broad Sincere

4 or more attributes = exponential organization



Ranking of Fortune 100 by Exponential Score

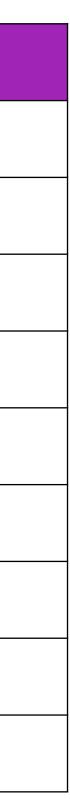
Average S&P +9.9%

Fortune 100 Company	ExQ
Google	72.9
Amazon	66.2
Apple	62.6
International Business Machines (IBM)	61.0
Verizon Communications	58.8
General Electric	56.6
Microsoft	55.9
Cisco Systems, Inc.	55.8
The Walt Disney Company	54.8

Top 10: + 26.7%

Fortune 100 Company	ExQ
Costco Wholesale	32.0
Phillip Morris International Inc.	31.6
Hess Corporation	31.3
HCA Holdings, Inc.	31.0
Phillips 66	30.7
Tesoro Corporation	30.0
Valero Energy	29.8
Plains GP Holdings, L.P.	27.5
Energy Transfer Equity, L.P.	26.5

Bottom: 10 -1.7%



Crowd on Demand Attribute







Paid \$10,000 for Kaggle competition 271% improvement in 2 weeks

50% of IT staff consultants Not just helpful, mandatory

Need to know where products are in Walmart Uses Gigwalk app.



- Transform mindsets and implement diversity
- Exponential organizations at the edge
- Hire a black ops team
- Partner with / acquire an exponential organization

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- Transform mindsets and implement diversity
- Exponential organizations at the edge
- Hire a black ops team
- Partner with, invest in, acquire an exponential organization



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Parting Thoughts

- Solving today's problems / iterating is not enough
- Finance (banking) is not safe from outside parties/disruption
- Fundamental shift in your business model will most likely required

ng is not enough n outside parties/disruption ss model will most likely required

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