Amplify Human Talent With Smart Machines

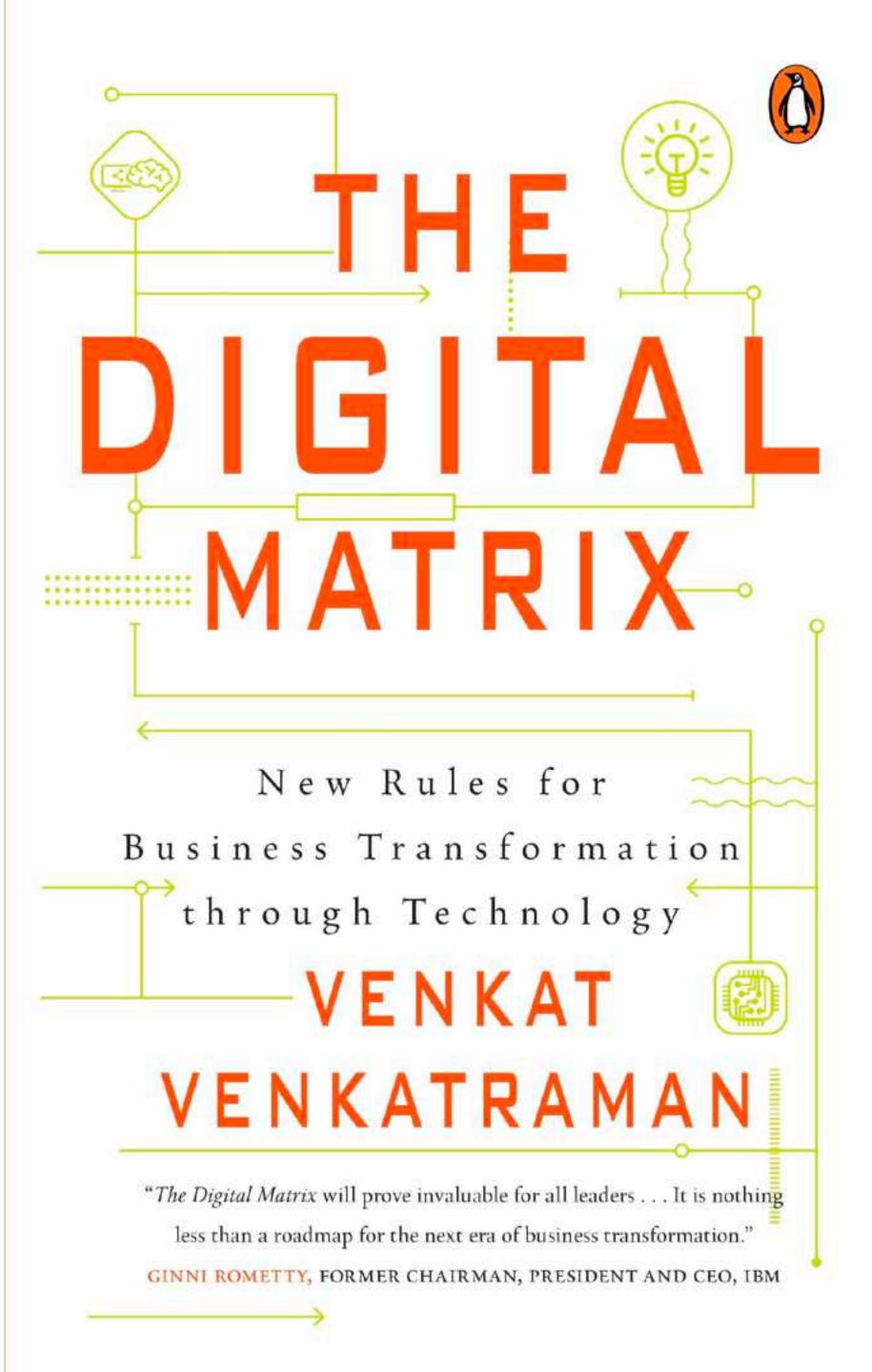






Professor N. Venkat Venkatraman Boston University Questrom School of Business

October 31, 2022



- O Every industry is accelerating towards its digital future—scale, scope and speed differ.
- O Every company will need to transform to effectively compete against born-digital companies.
- O There's no profitable pathway to growth without digital as innovation catalyst.
- O Digital transformation is a leadership (strategy & organization) challenge.



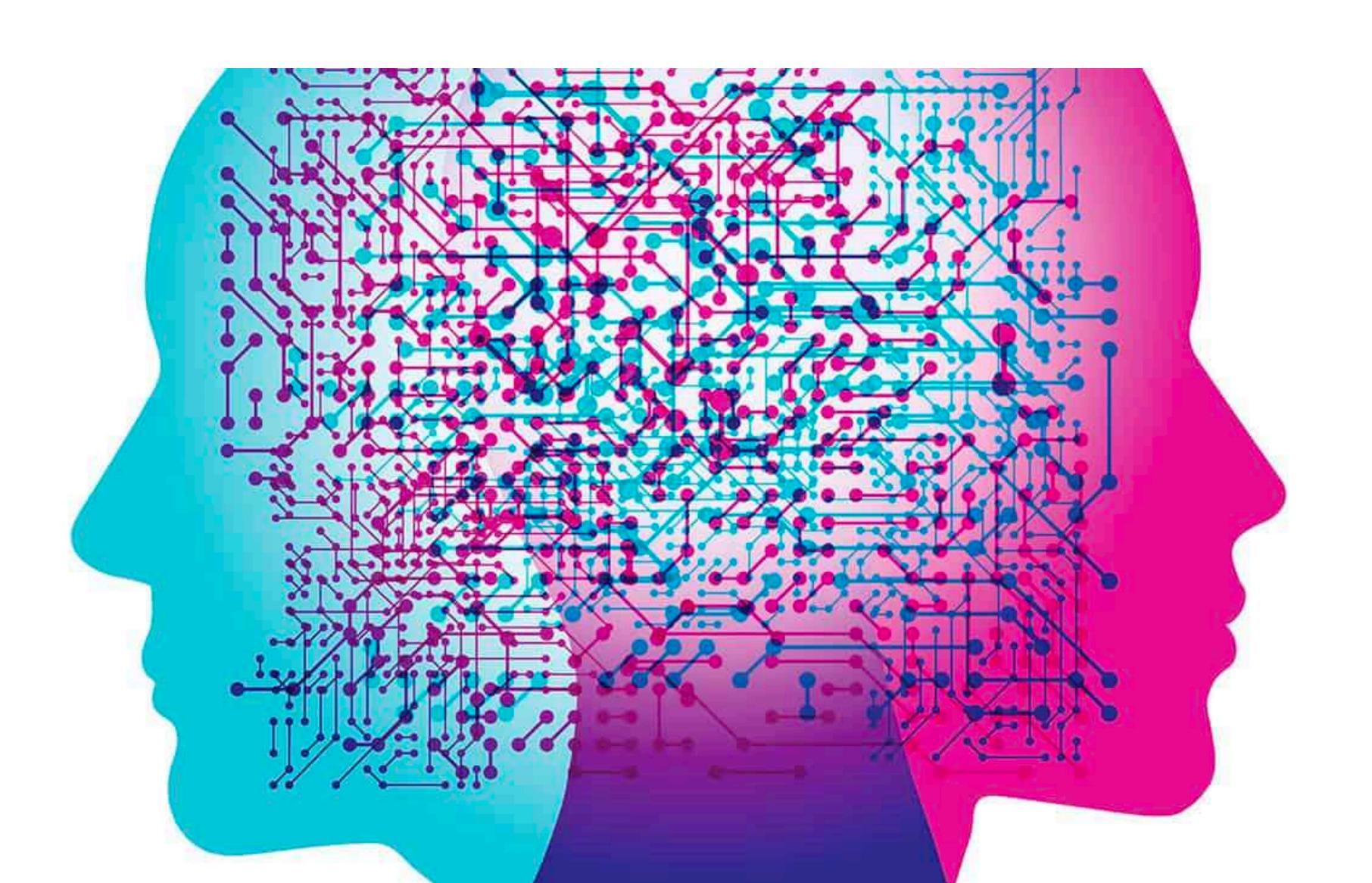
Canincumbents transform before the digital giants attack with their scale and scope?



Can incumbents speed up before the startups scale-



Amplified Intelligence Smart Humans • Powerful Machines





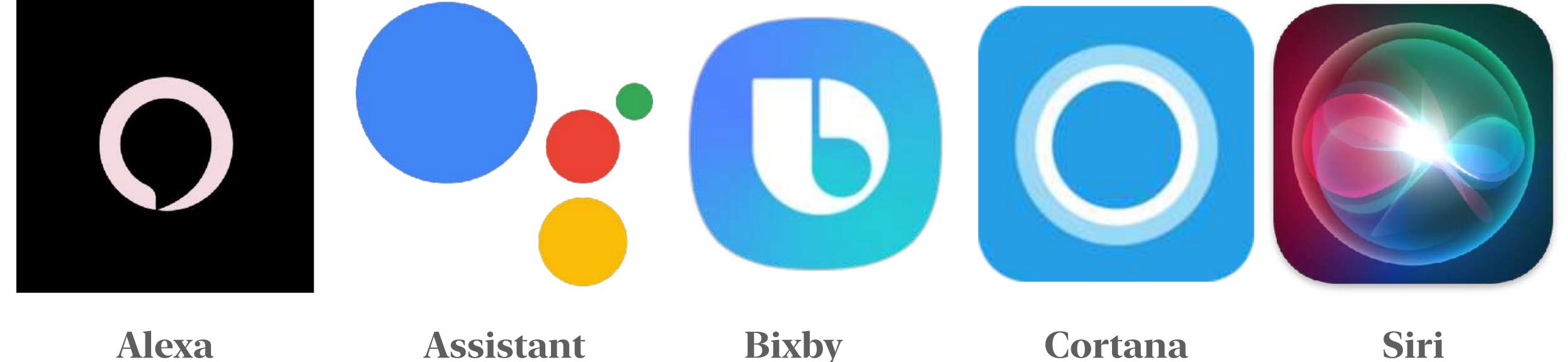




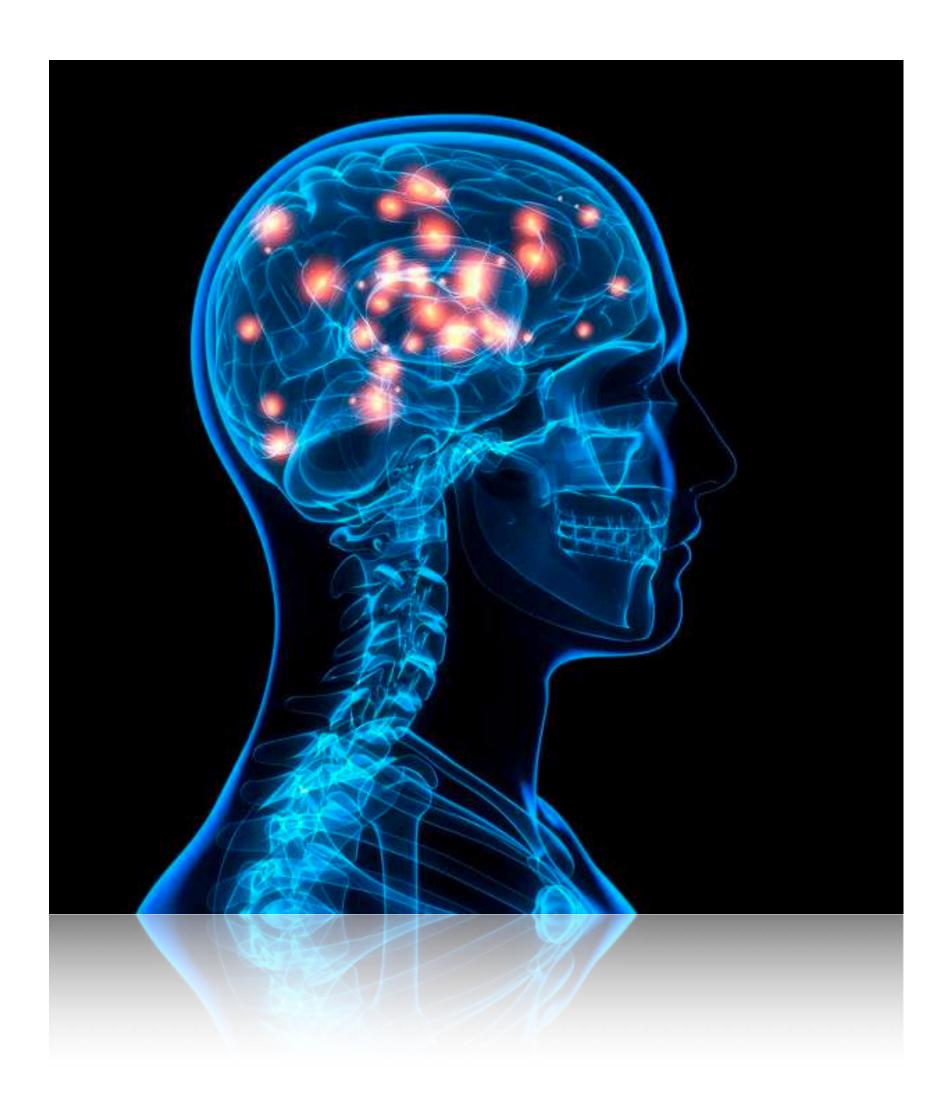








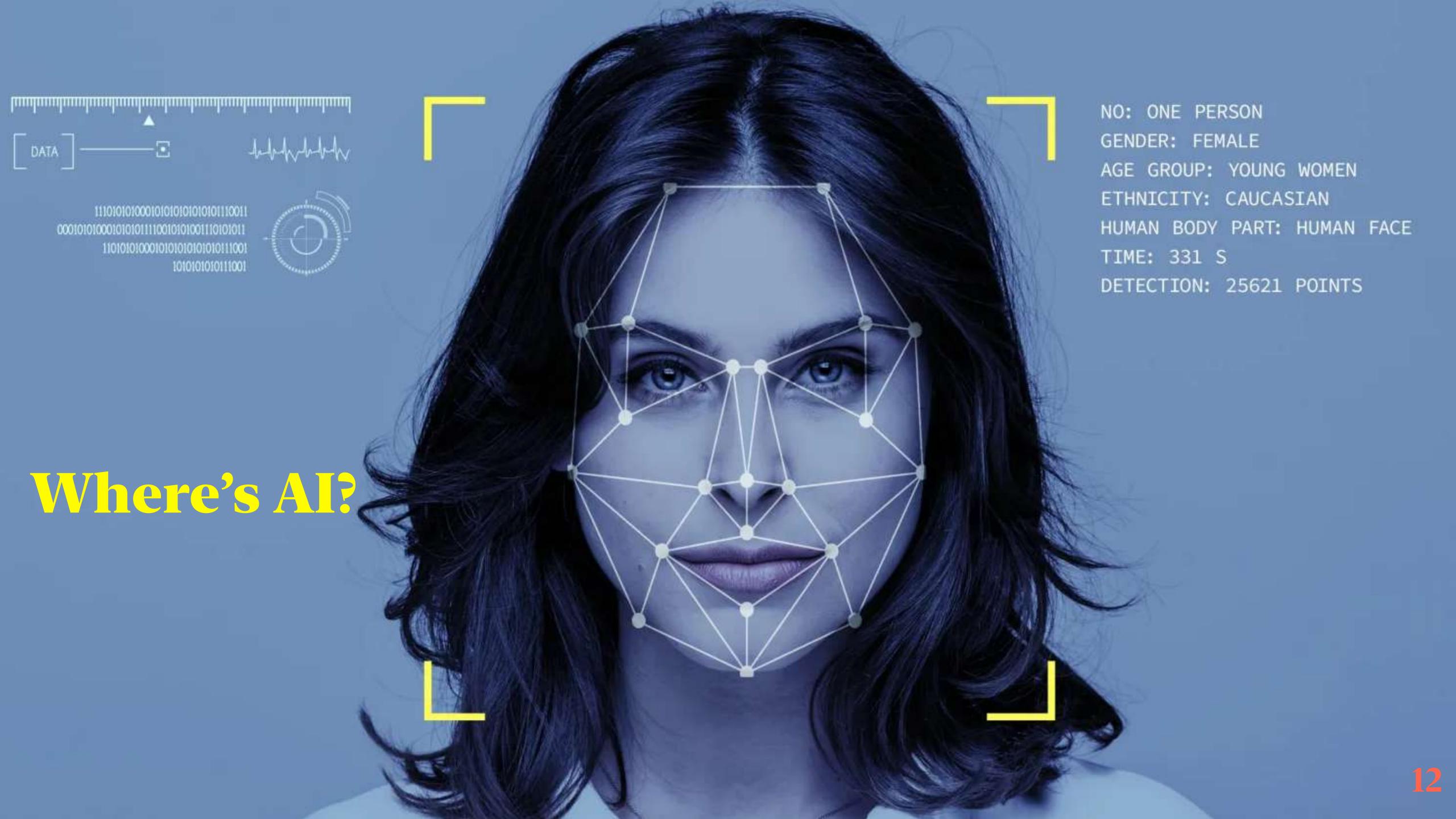




Smart Vacuum Cleaner







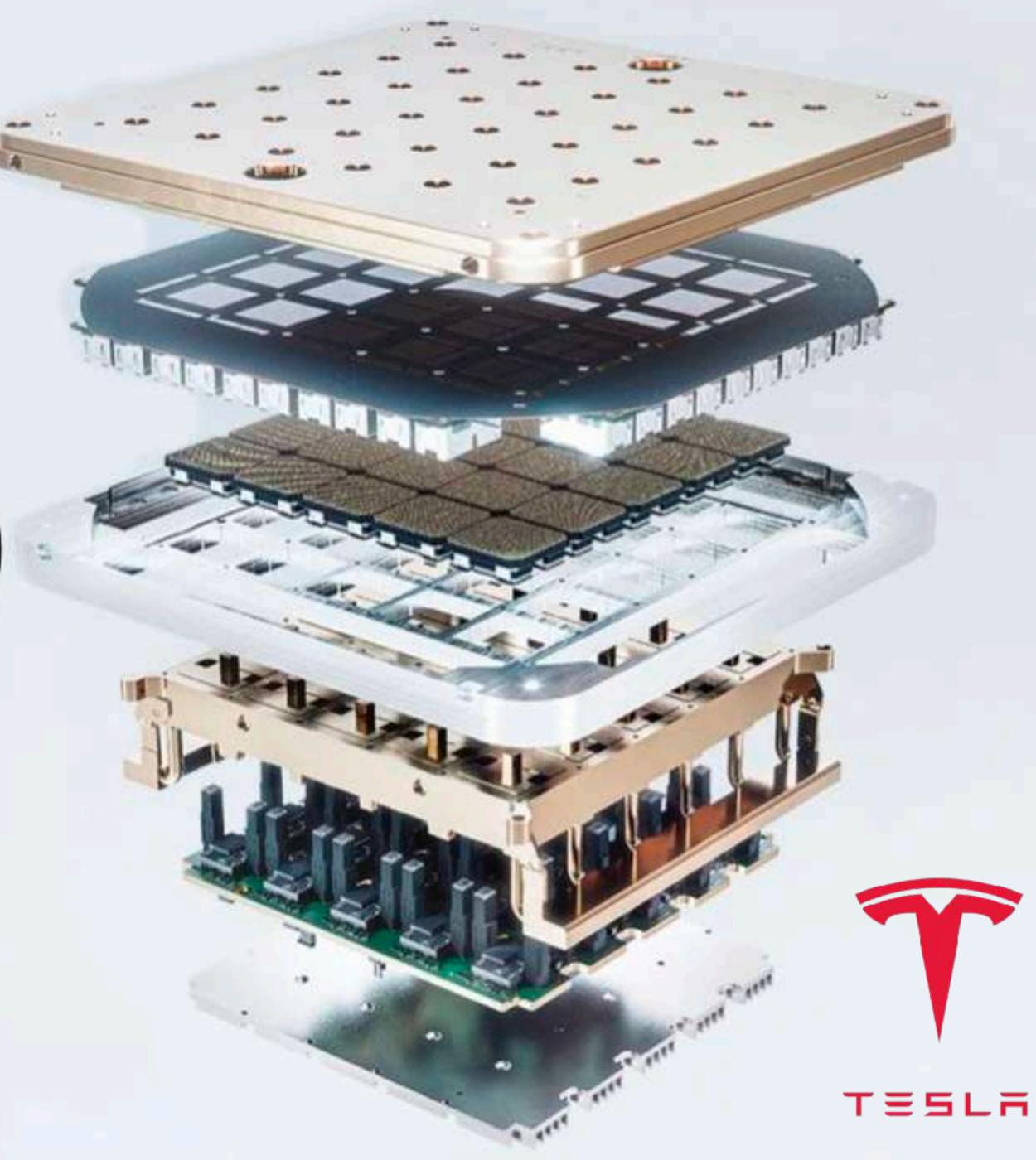




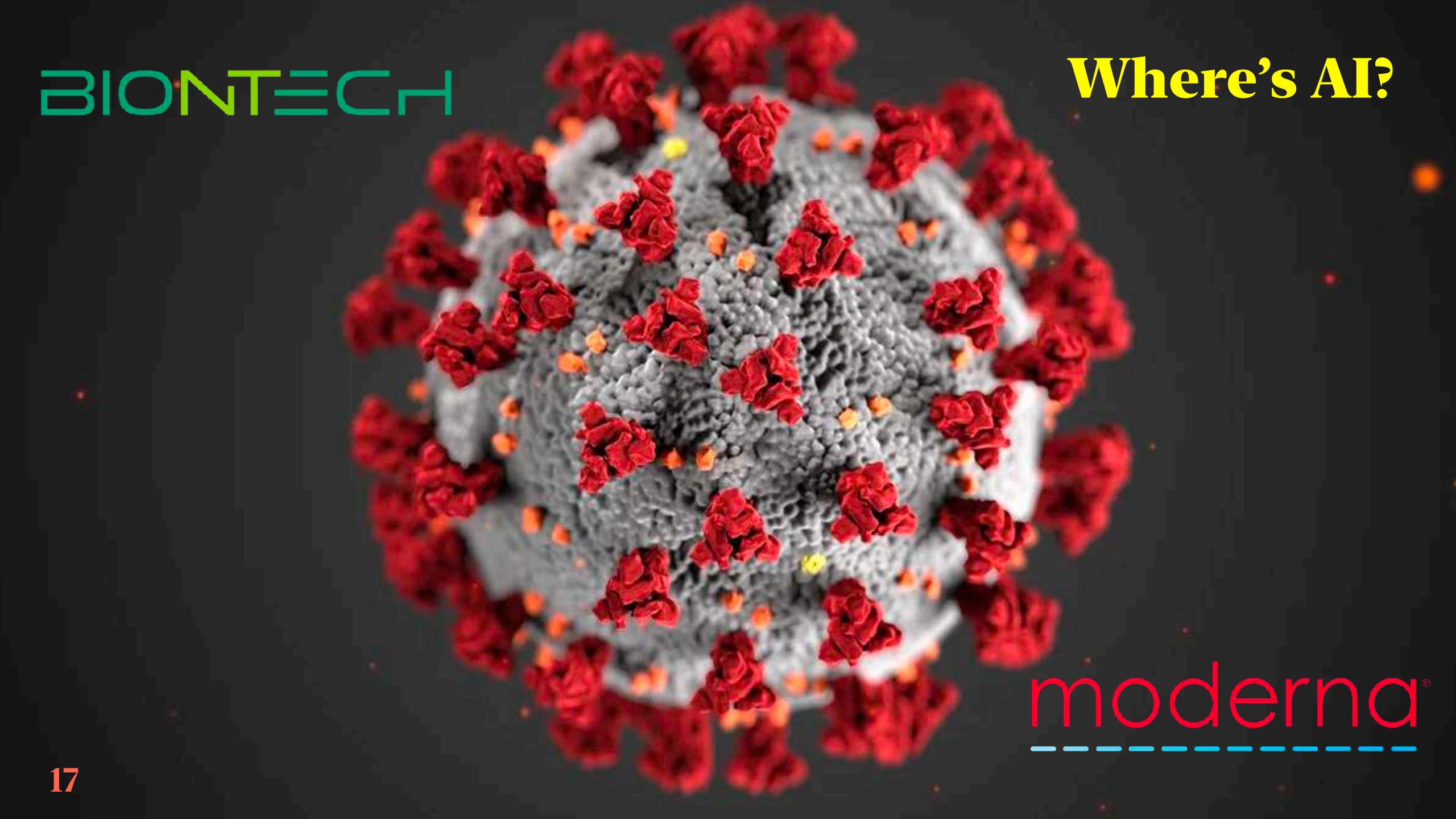


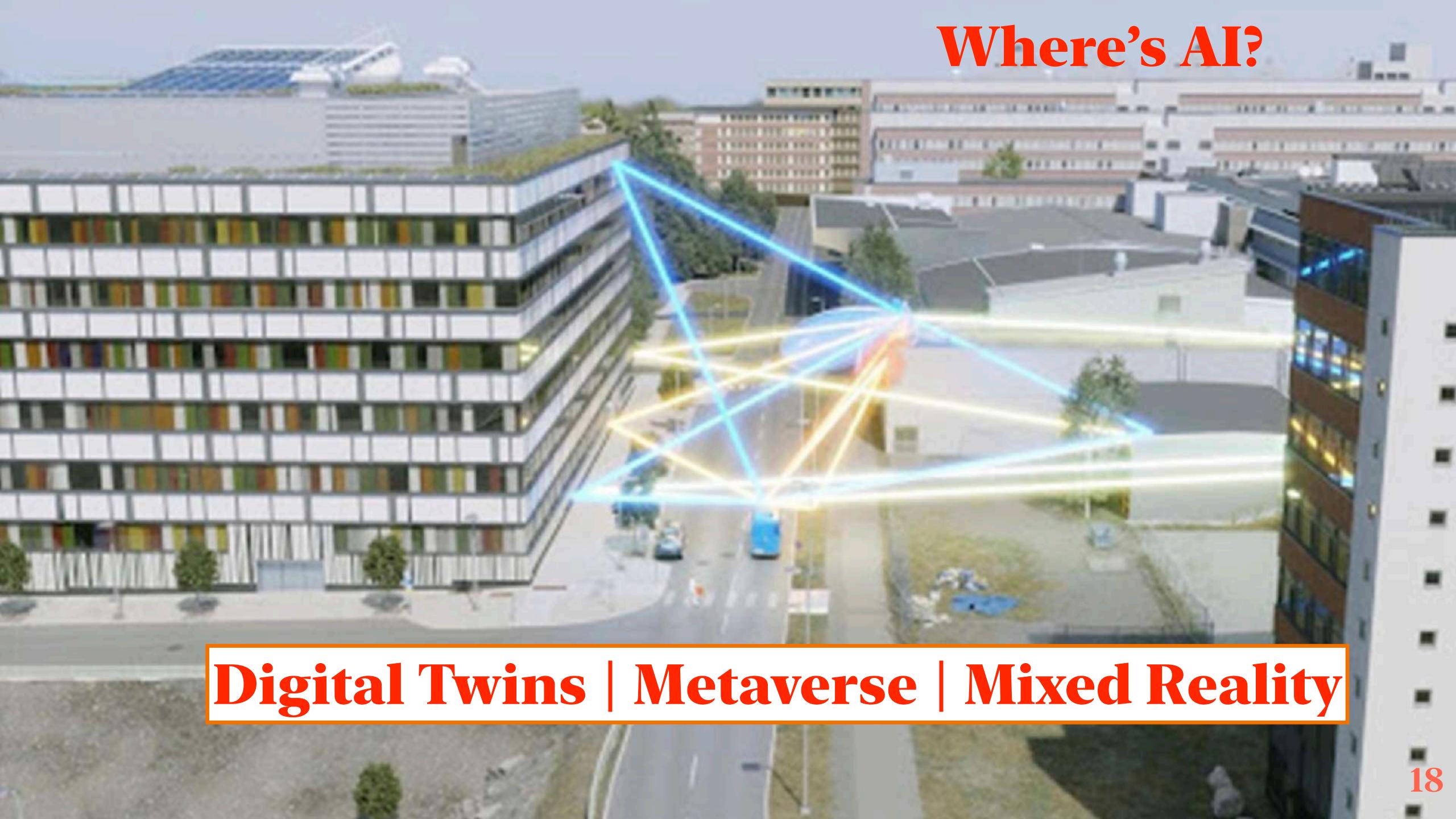


TESLA DOJO

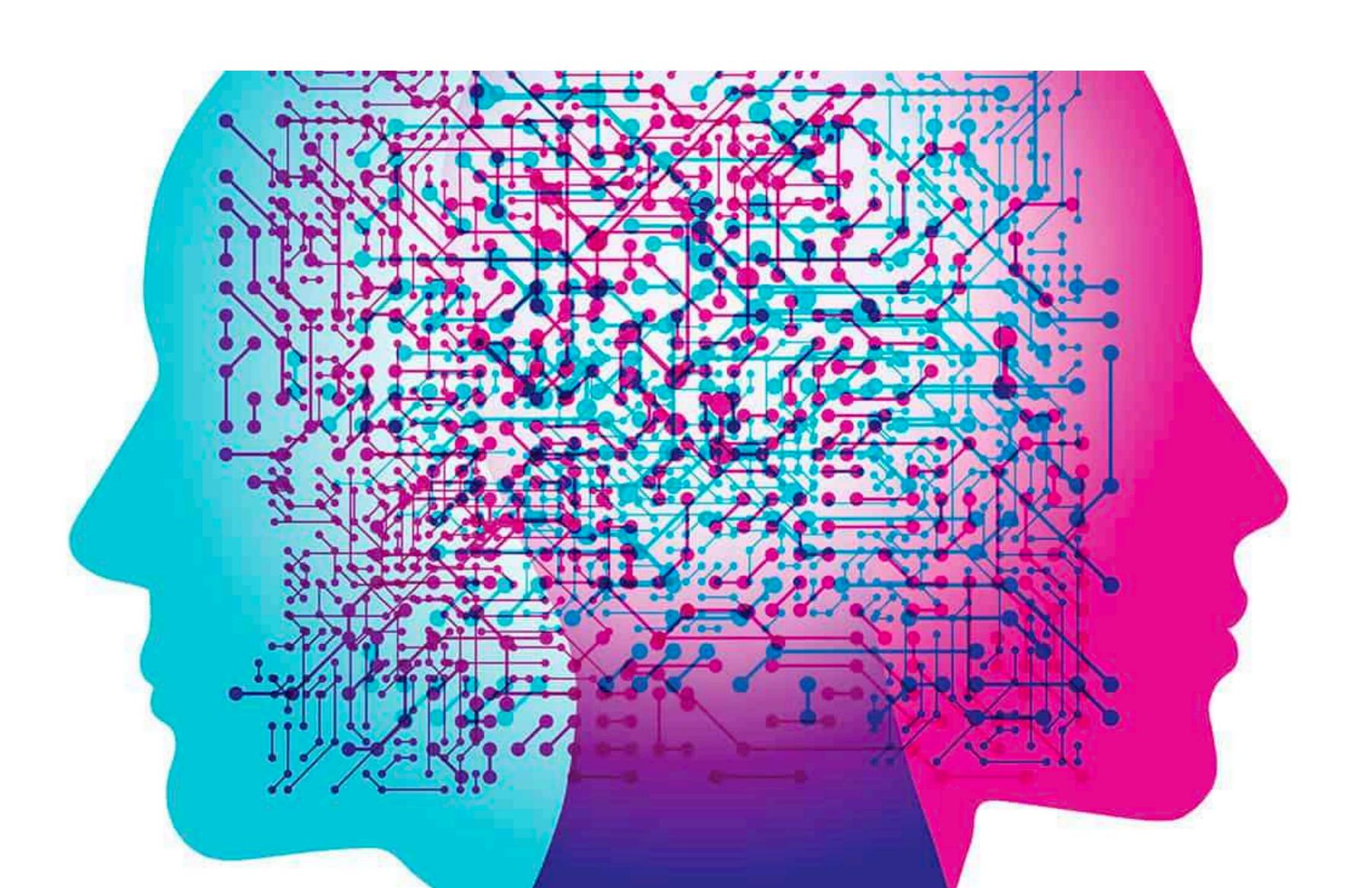


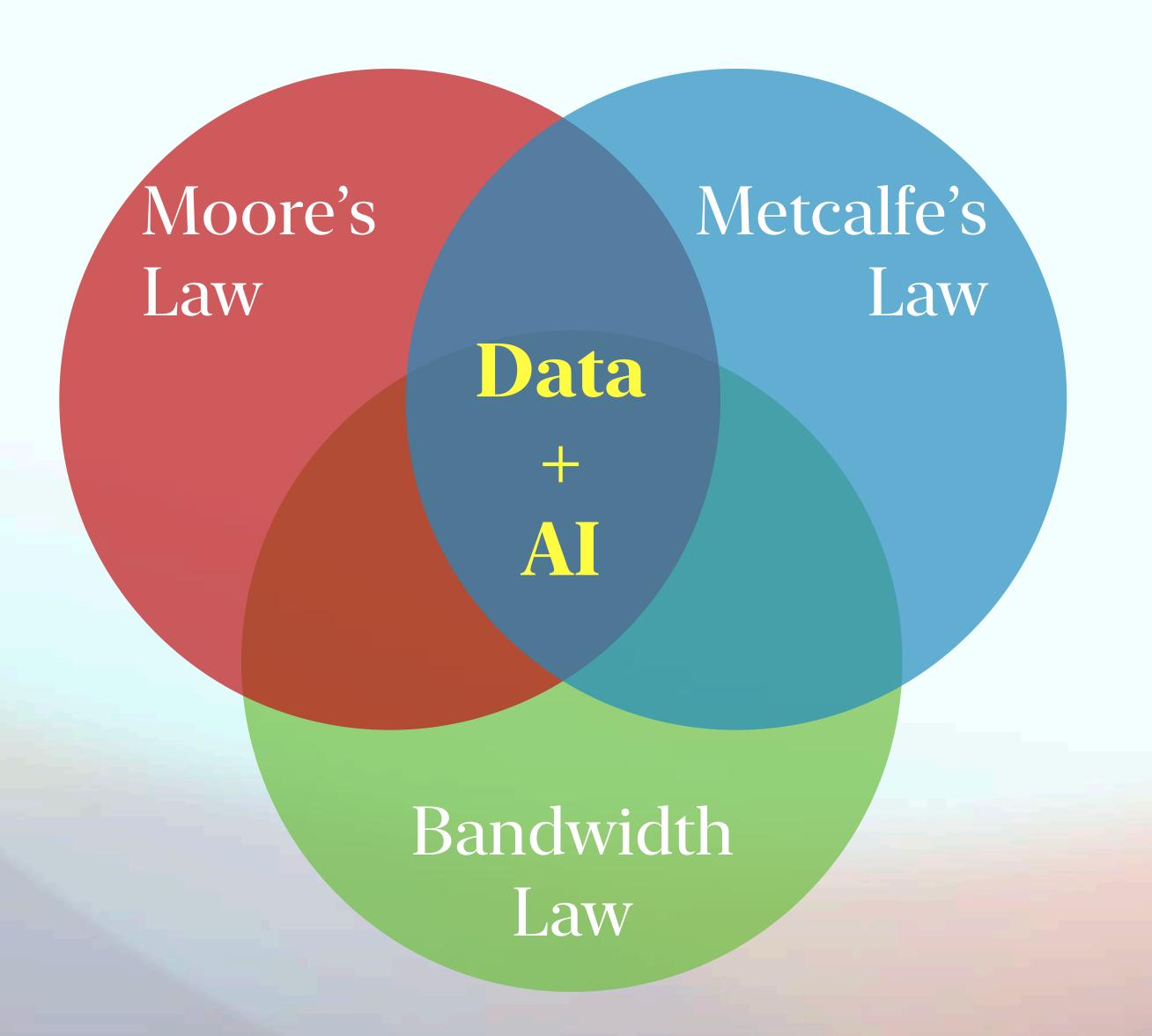




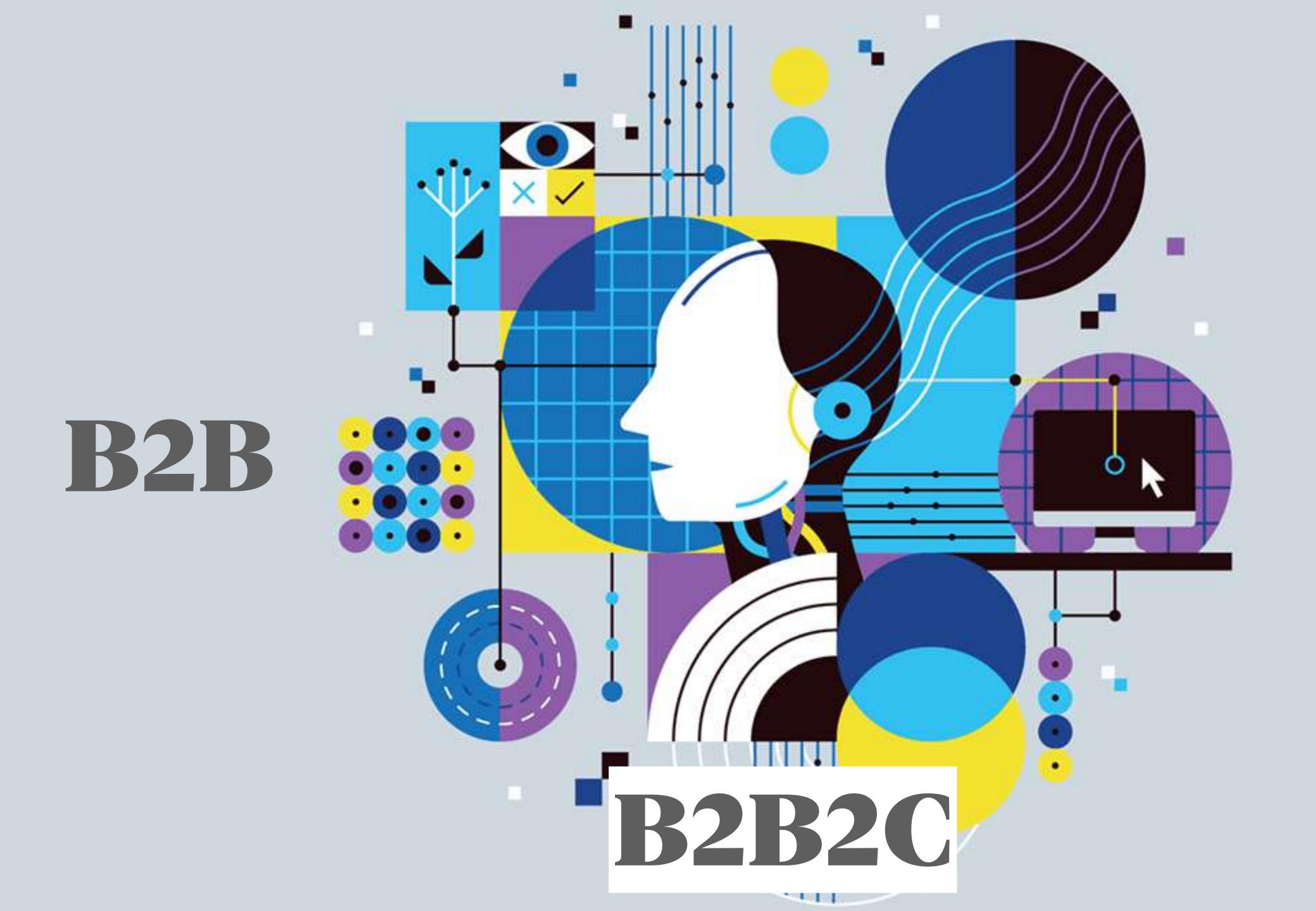


Amplified Intelligence Smart Humans • Powerful Machines



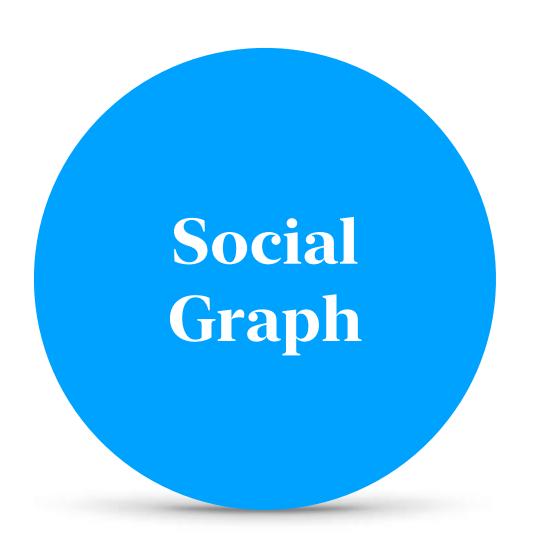


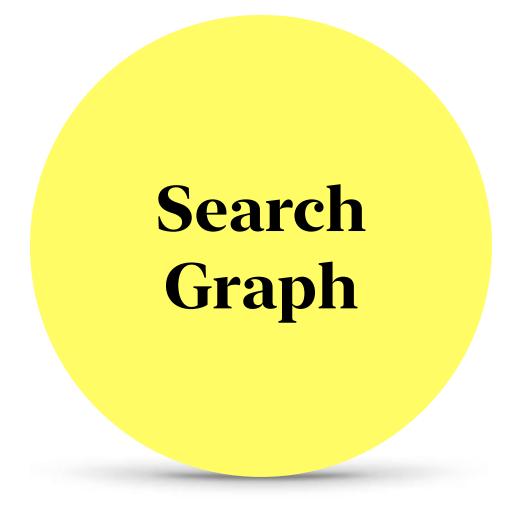
- **O Products**
- **O Processes**
- O Services
- O Business Models
- O Organizing Logic

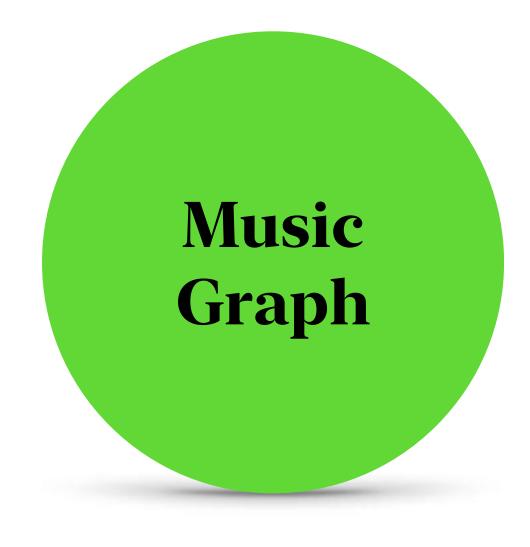


B2C

Datagraphs Emerge as New Driver of Competitive Advantage





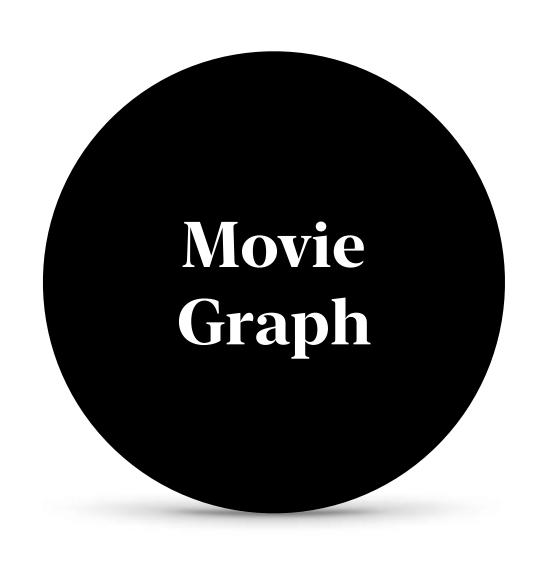




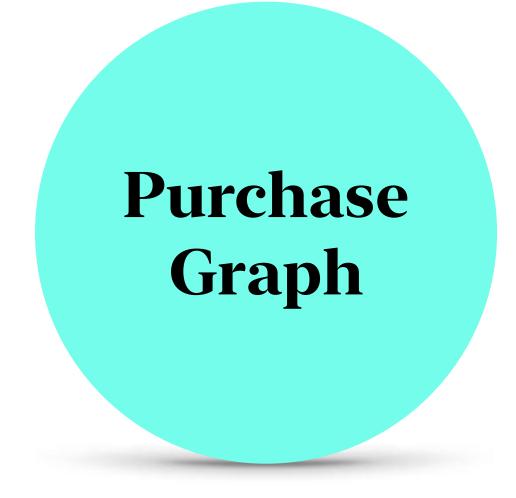




Datagraphs Emerge as New Driver of Competitive Advantage



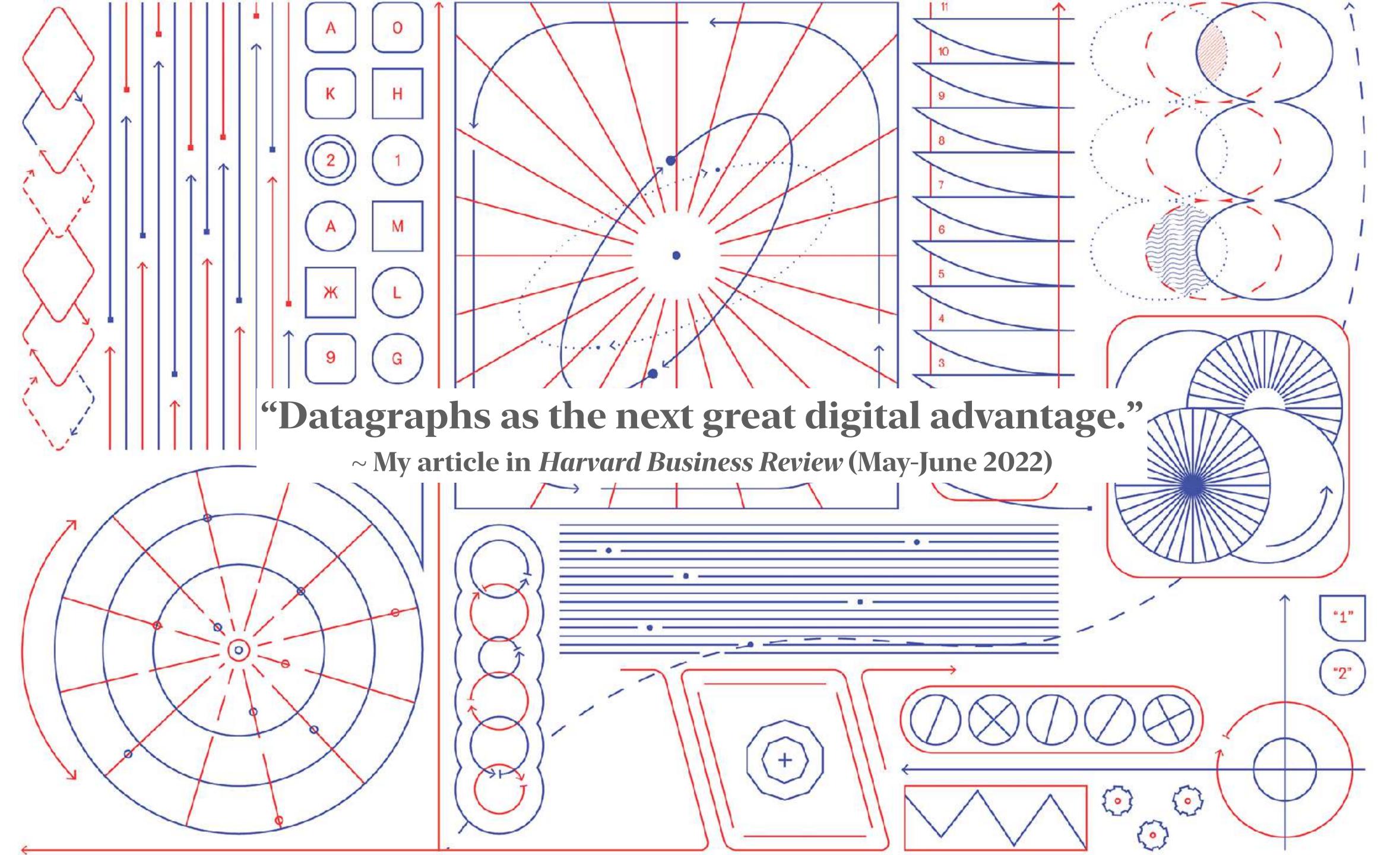




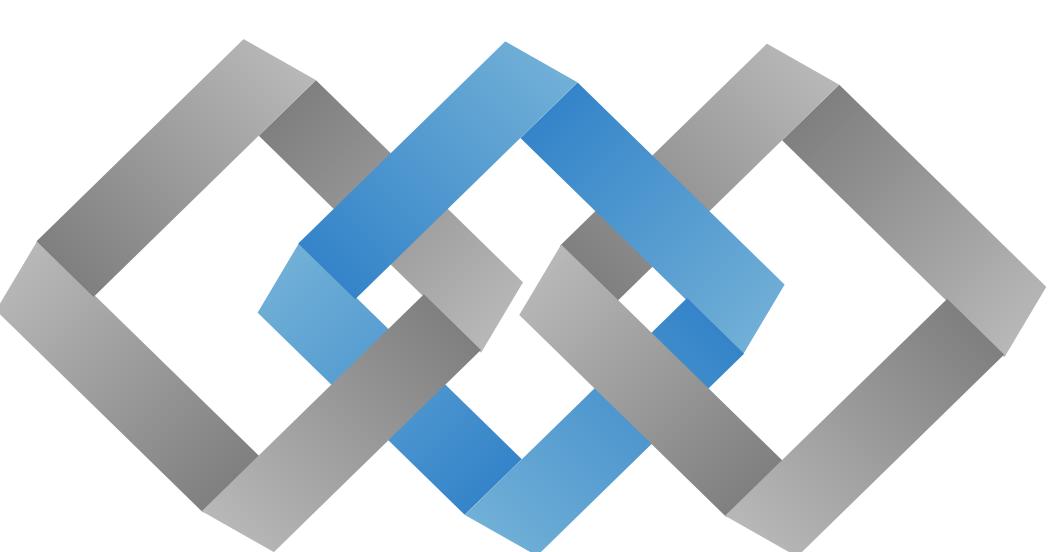






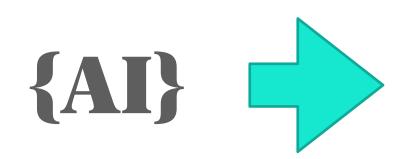






Indirect
Network
Effects

"Value increases with the number of complements"

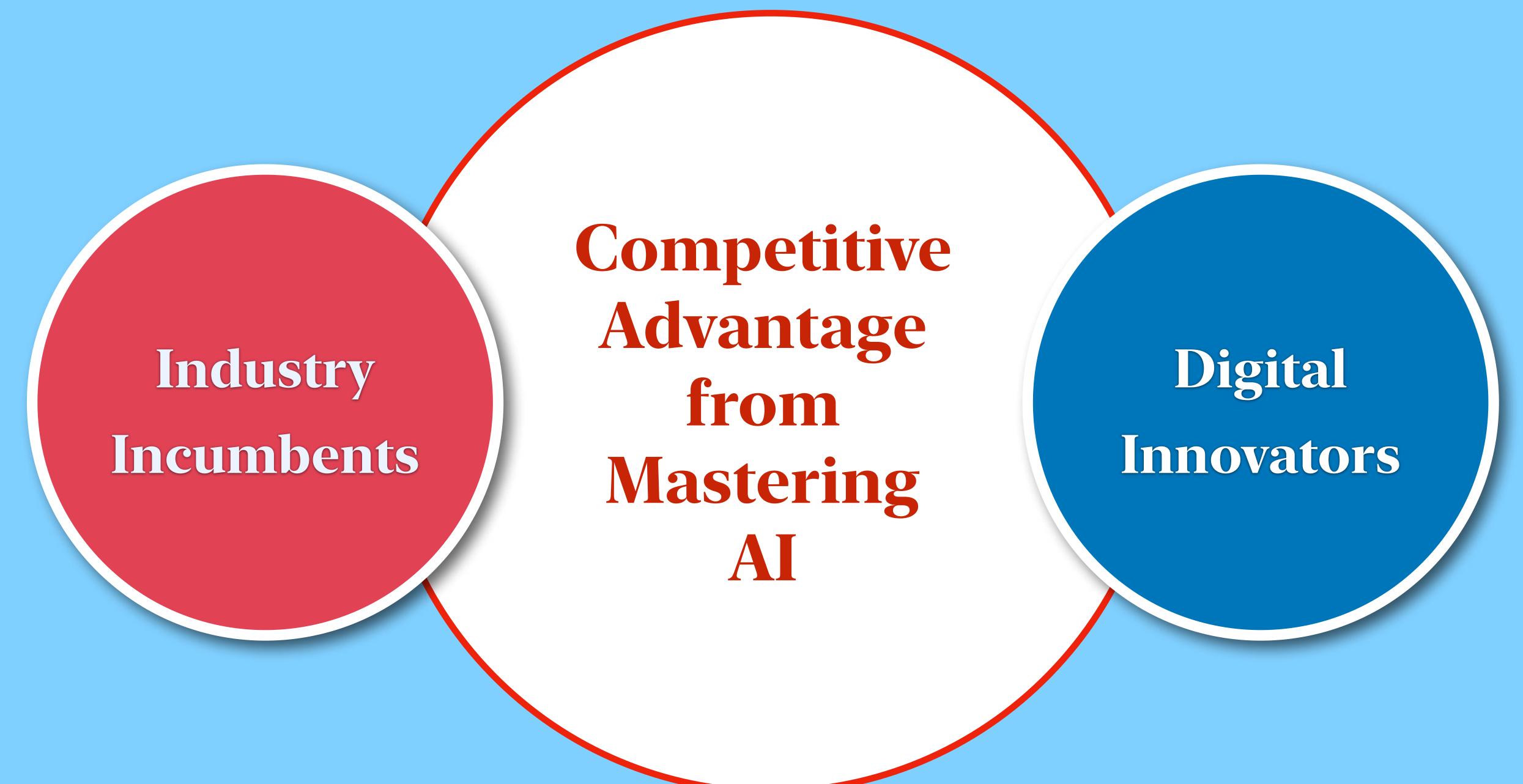


Data
Network
Effects



{AI}

"Value increases with data on product use over time"



How did we get here?

Lessons From Games that Machines Play



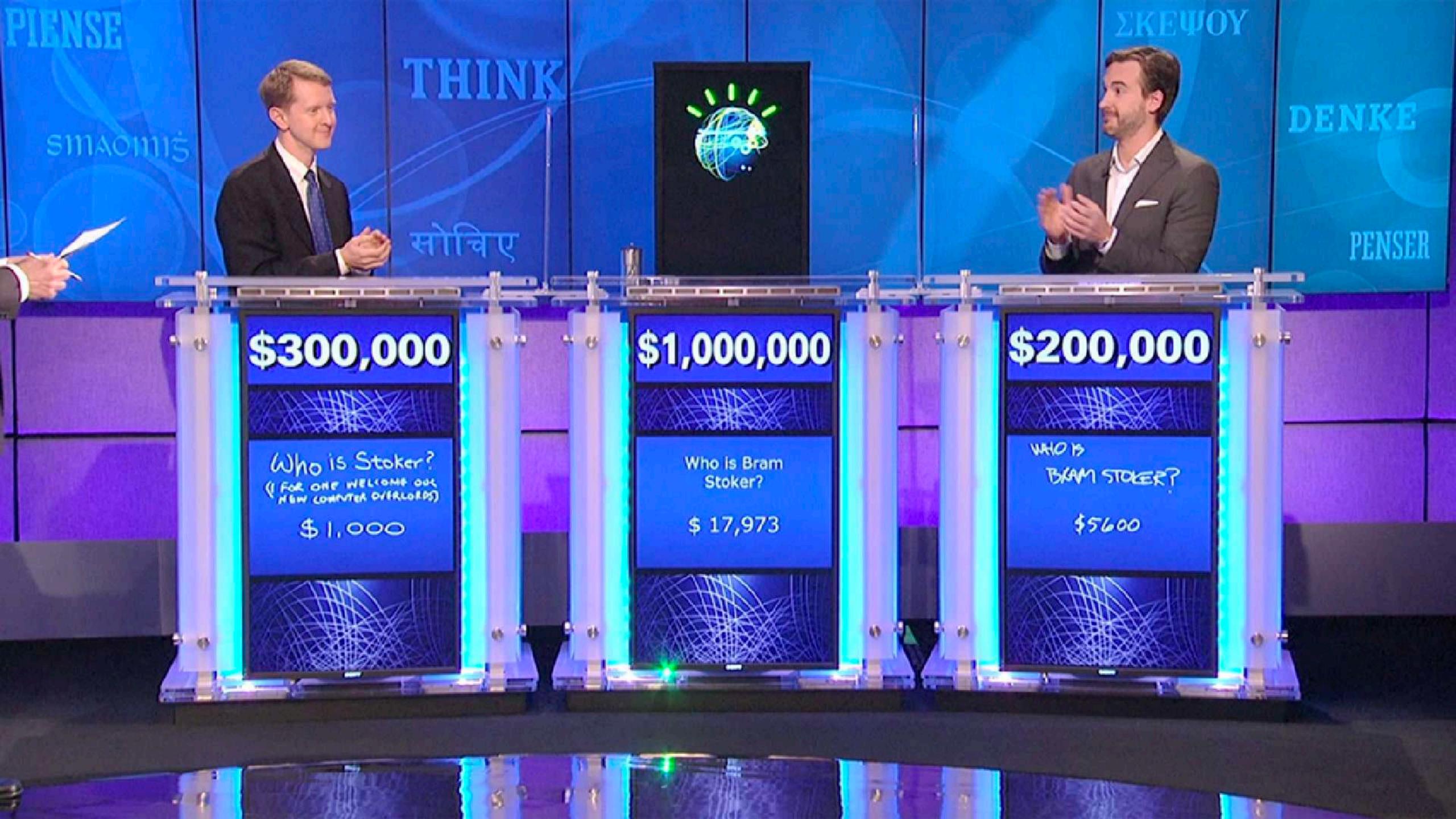






I make it clear... that my loss to Deep Blue was also a victory for humans — its creators and everyone who benefits from our technological leaps. This is always the case in the big picture, and why [I] reject the 'man vs machine' competition storyline. The machines work for us, after all. The last third of the book is about the bright future of our lives with intelligent machines, if we are ambitious enough to embrace it. I hope my optimism is contagious."





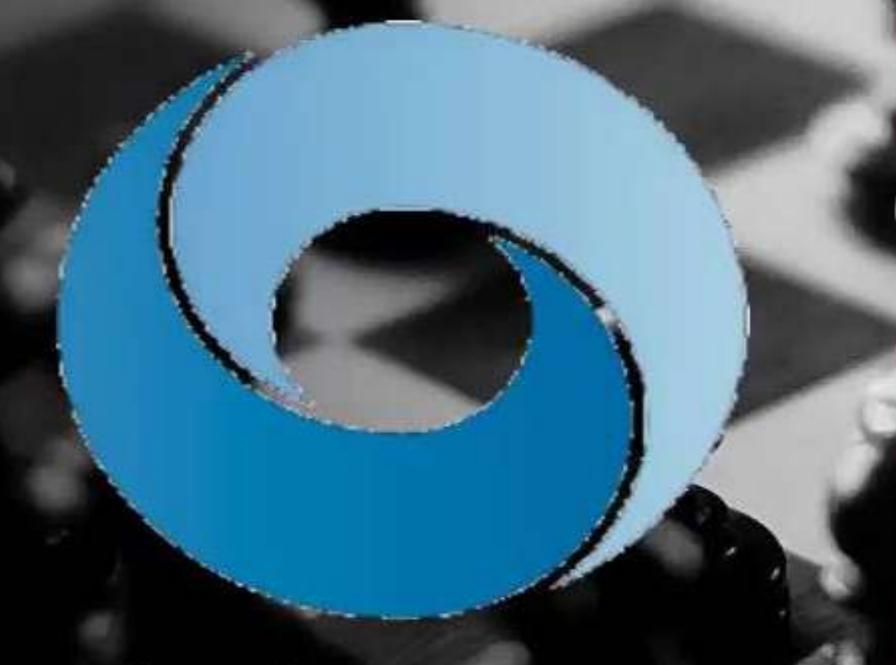








December 6, 2017



Alpha Zero



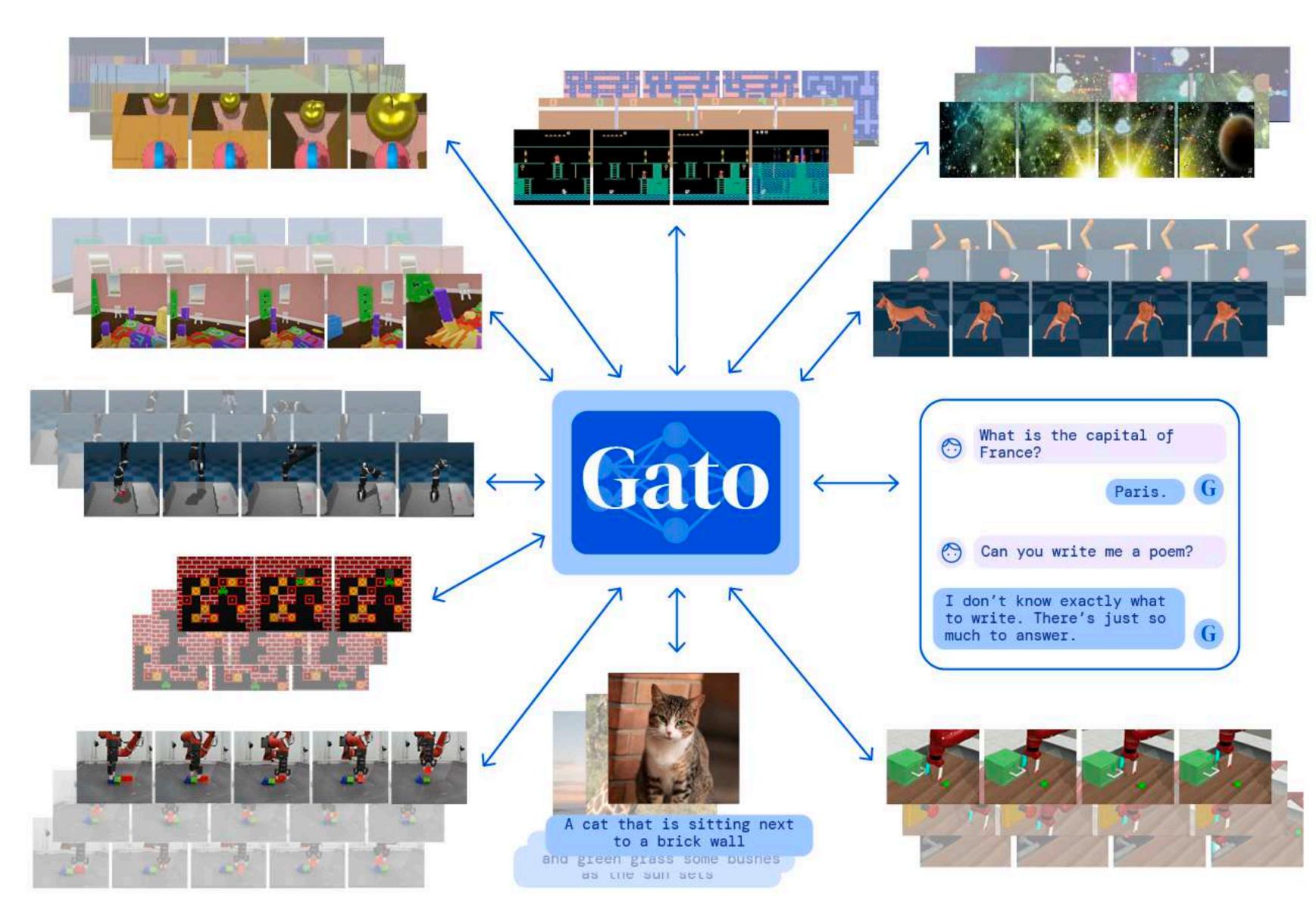
Alpha Zero vs Stockfish



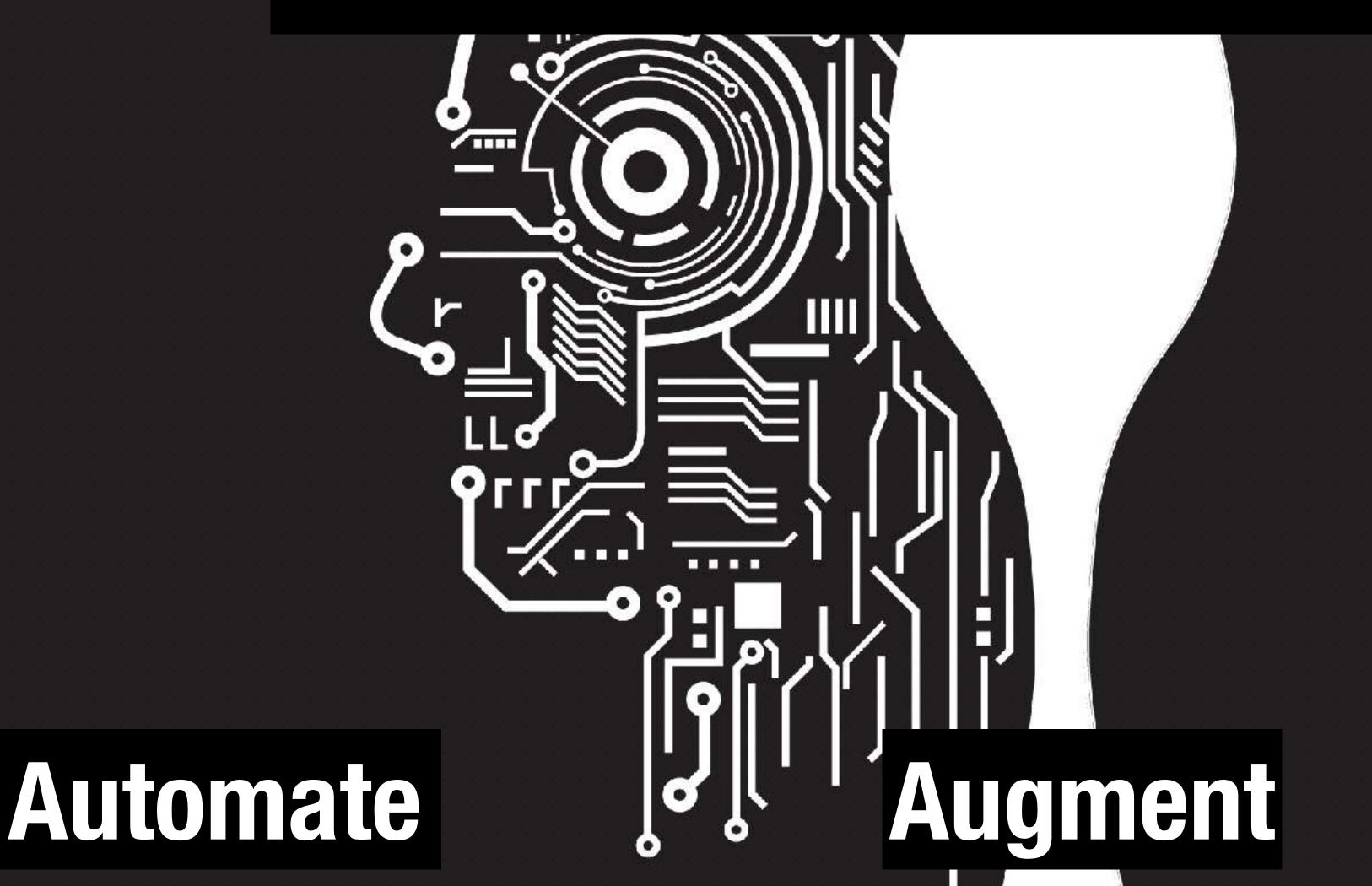
Google's DeepMind







Humans + Machines

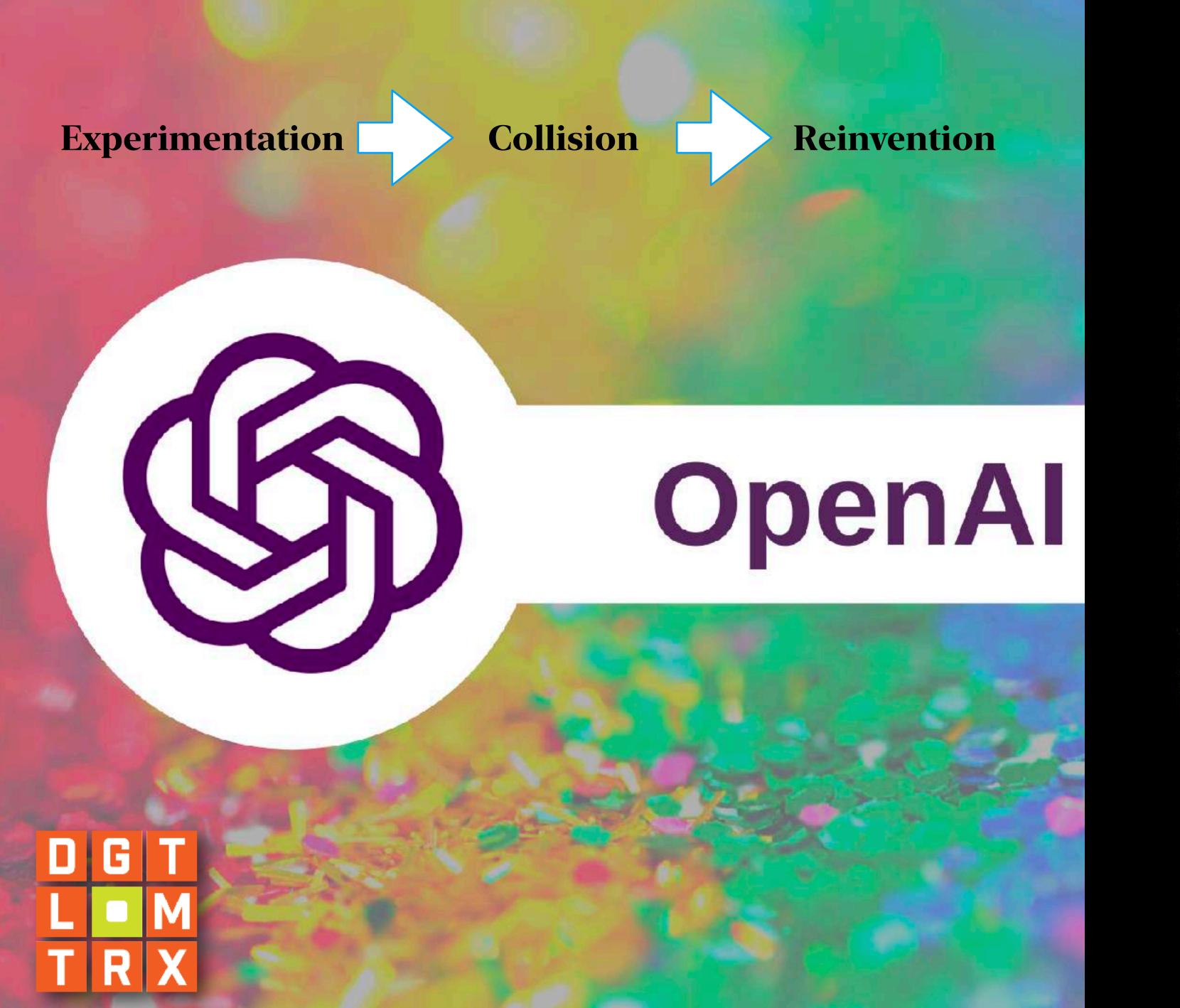


Amplify

Where do we go from here?

"Skills that are easy for humans are hard for computers... and vice versa TRUEL

"reasoning requires very little computation, but sensorimotor and perception skills require enormous computational resources."



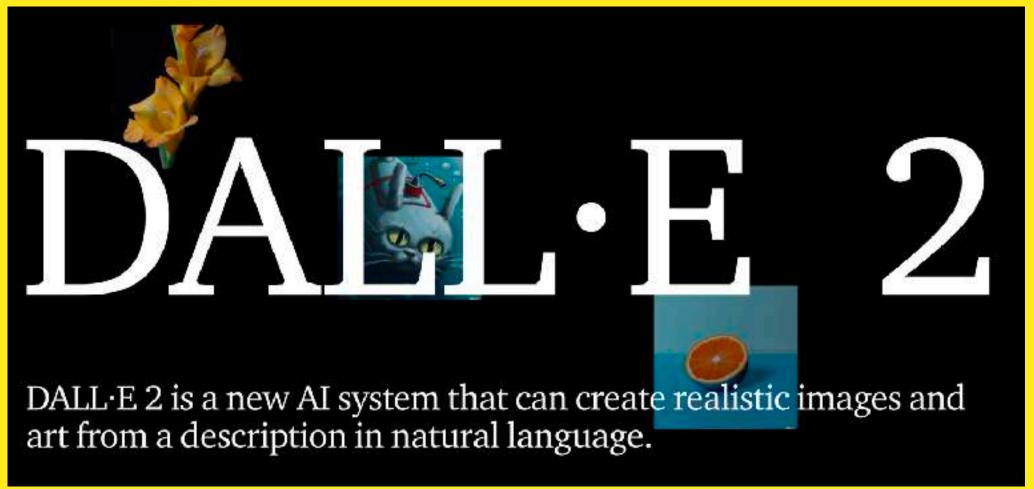
a cube with the texture of of olone and orchid. a molon per phof an orchid. a macro of cloud of an orchid. a macro of san francisco's mission dolo of san over of san view of a strawben of section view of chips sitting of sale block. a small red block of the sale block. table block. a small red block of a museum in policy photo of a museum in cuba.

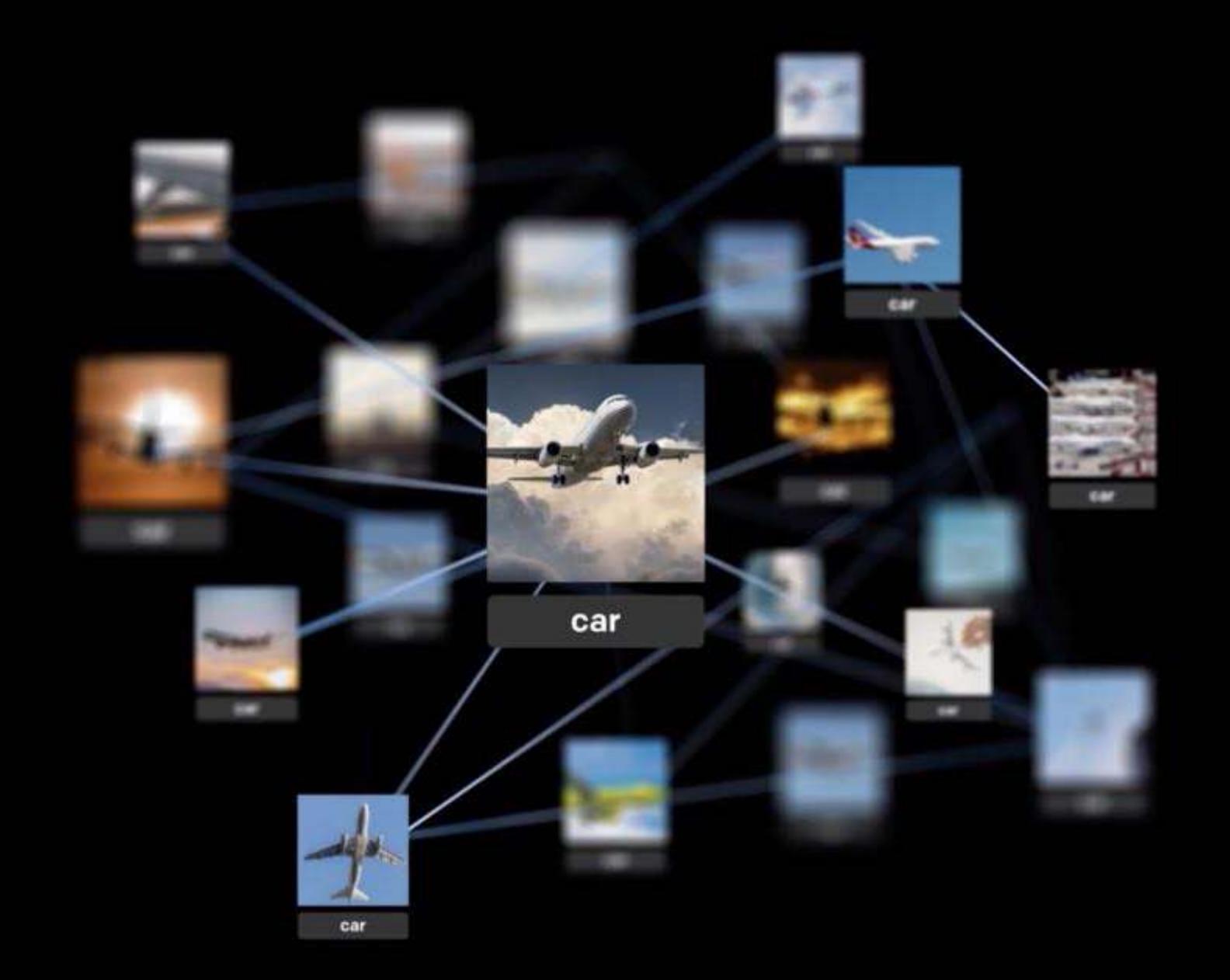
photo of a computer from the >cuba.

photo pineapple. a neon a

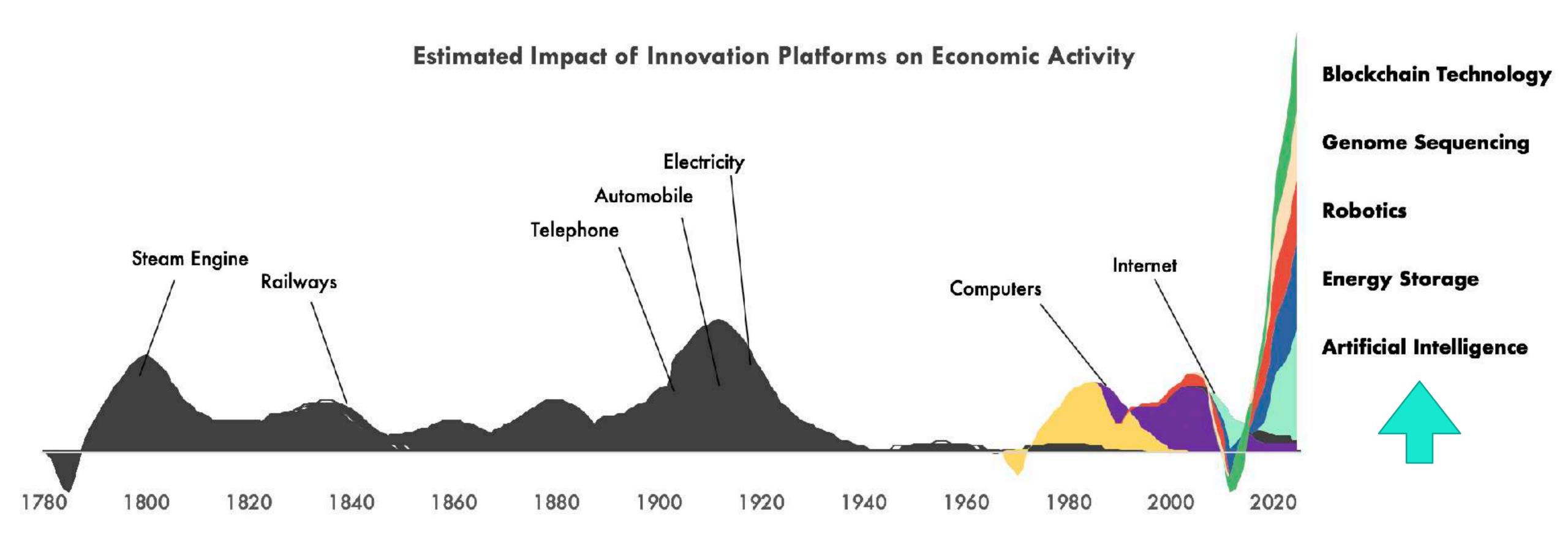








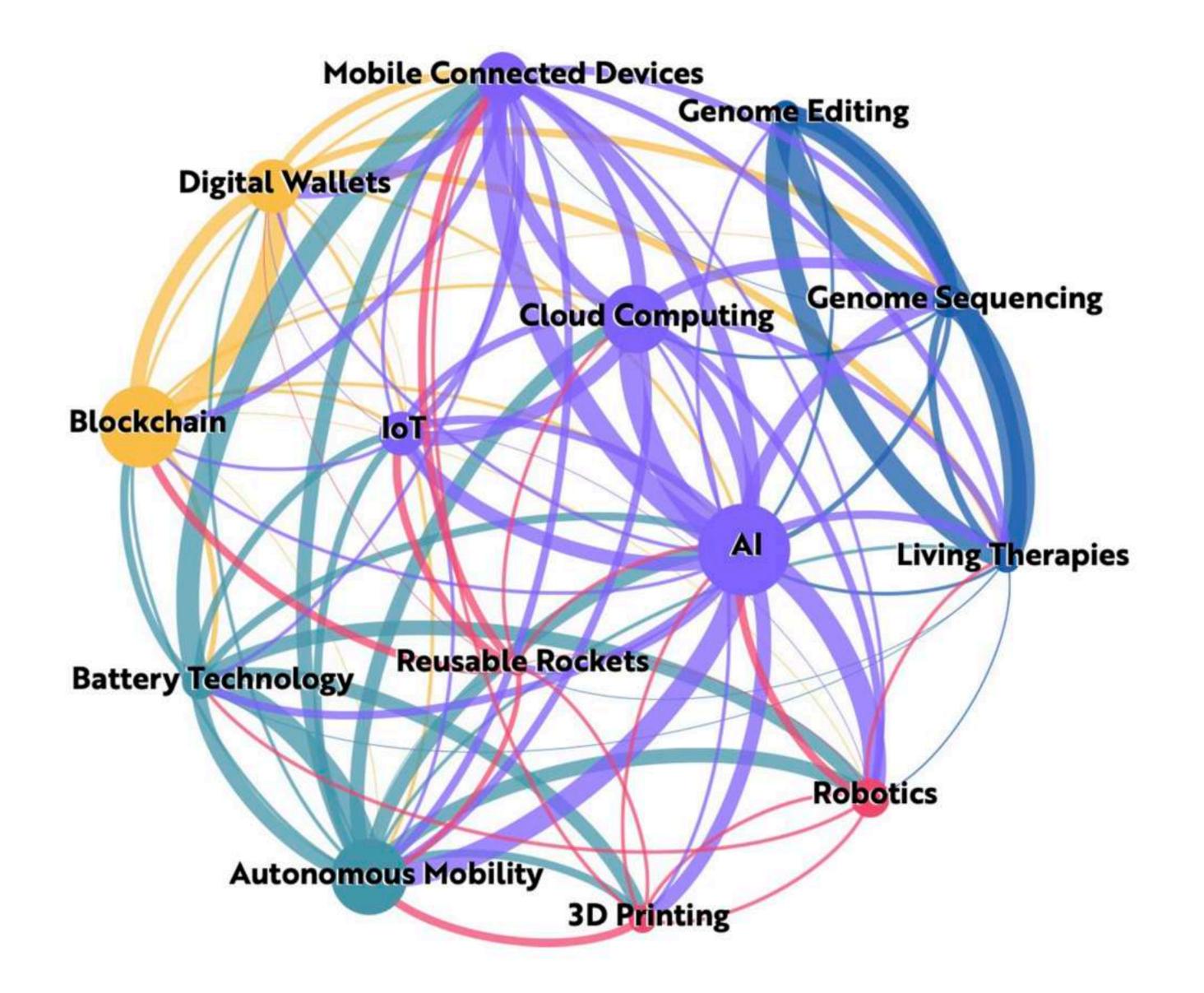
Transformation Frontiers...

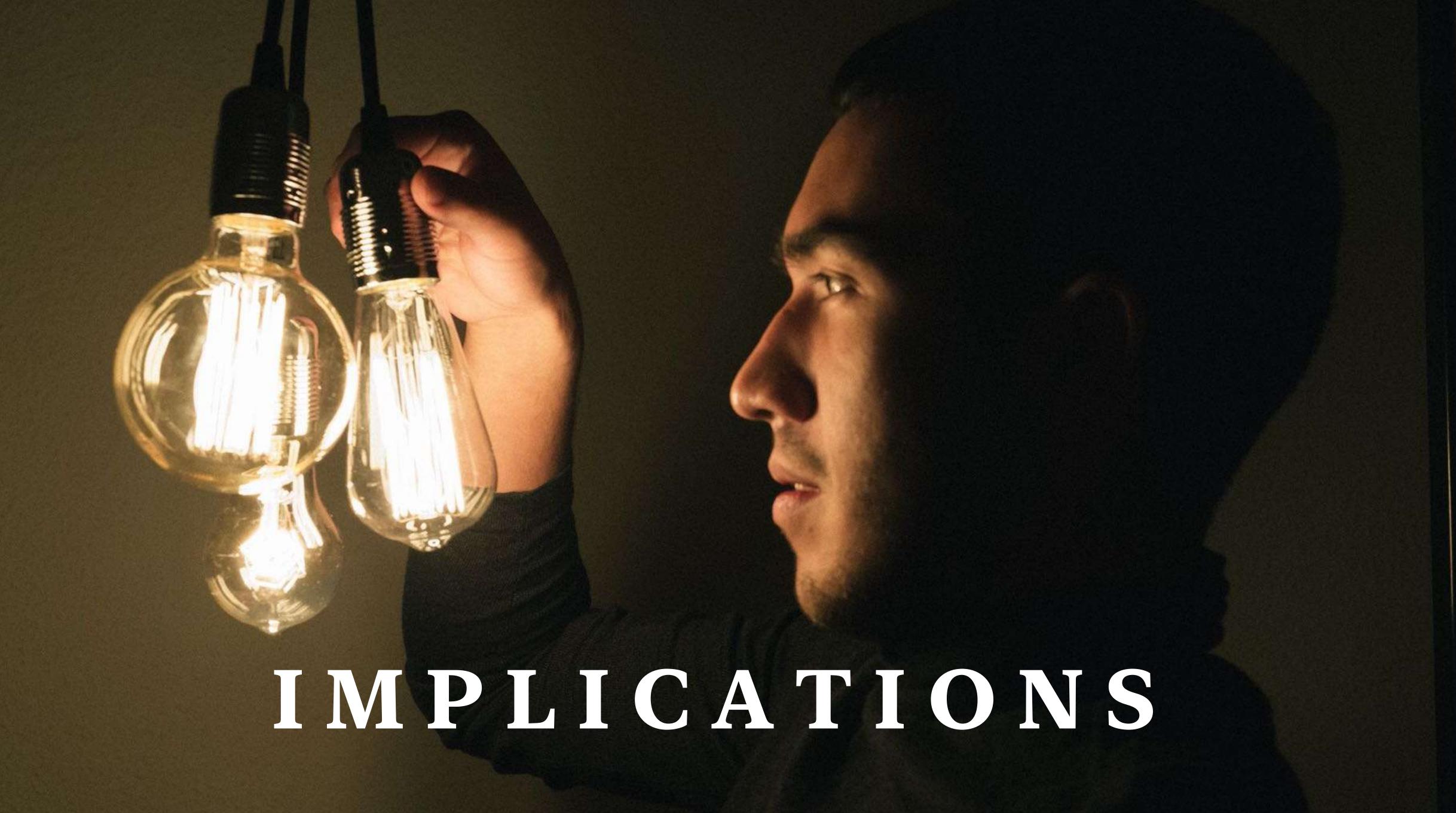


Source: ARK Investment Management LLC, 2018 | Forecasts are inherently limited and cannot be relied upon.

What's the likely view from 2030 looking back?

Amplified Intelligence is the connective thread across multiple converging technologies.





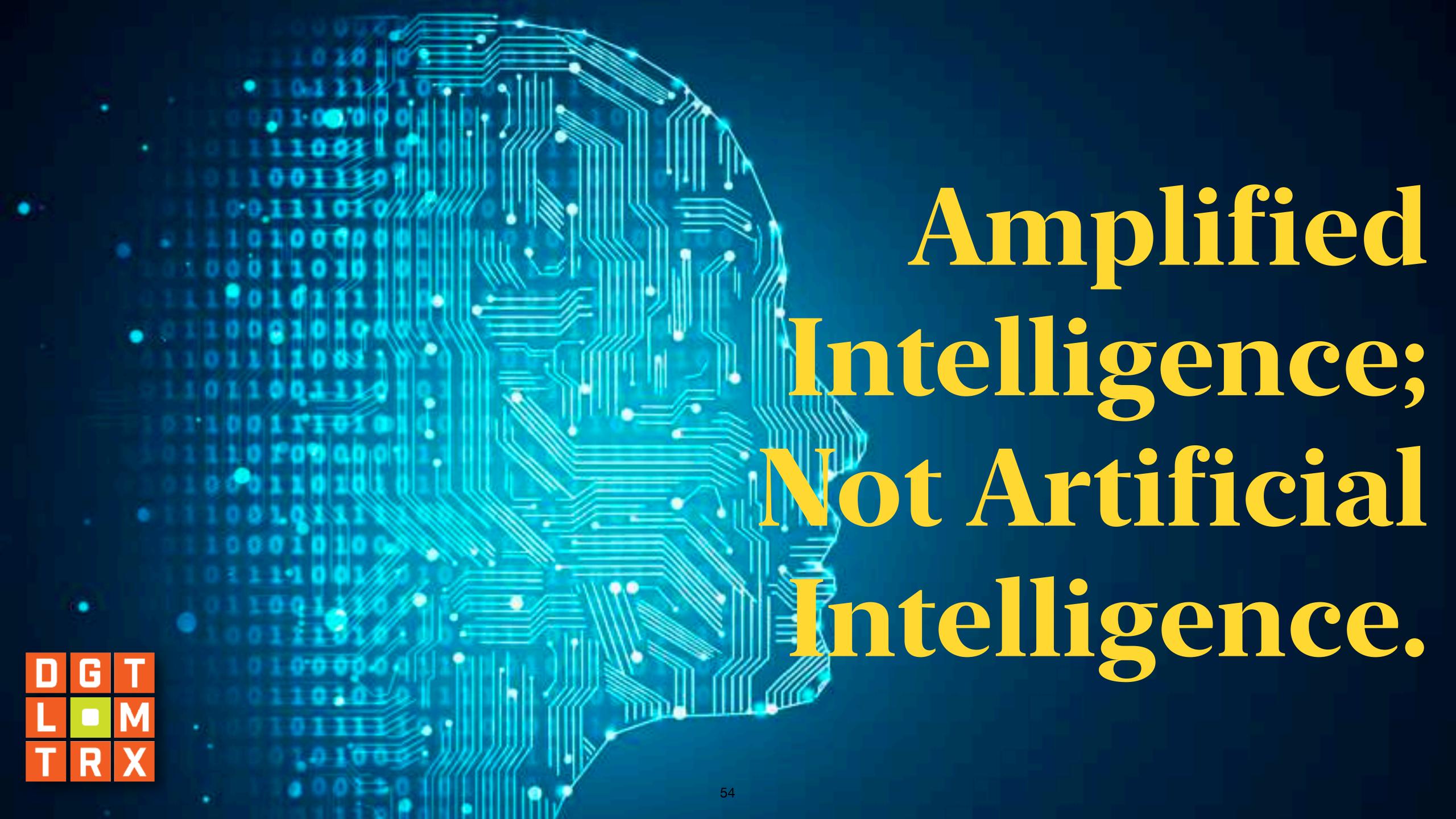
We are at the Third Inflection Point in Digital Transformation

Web-Centric

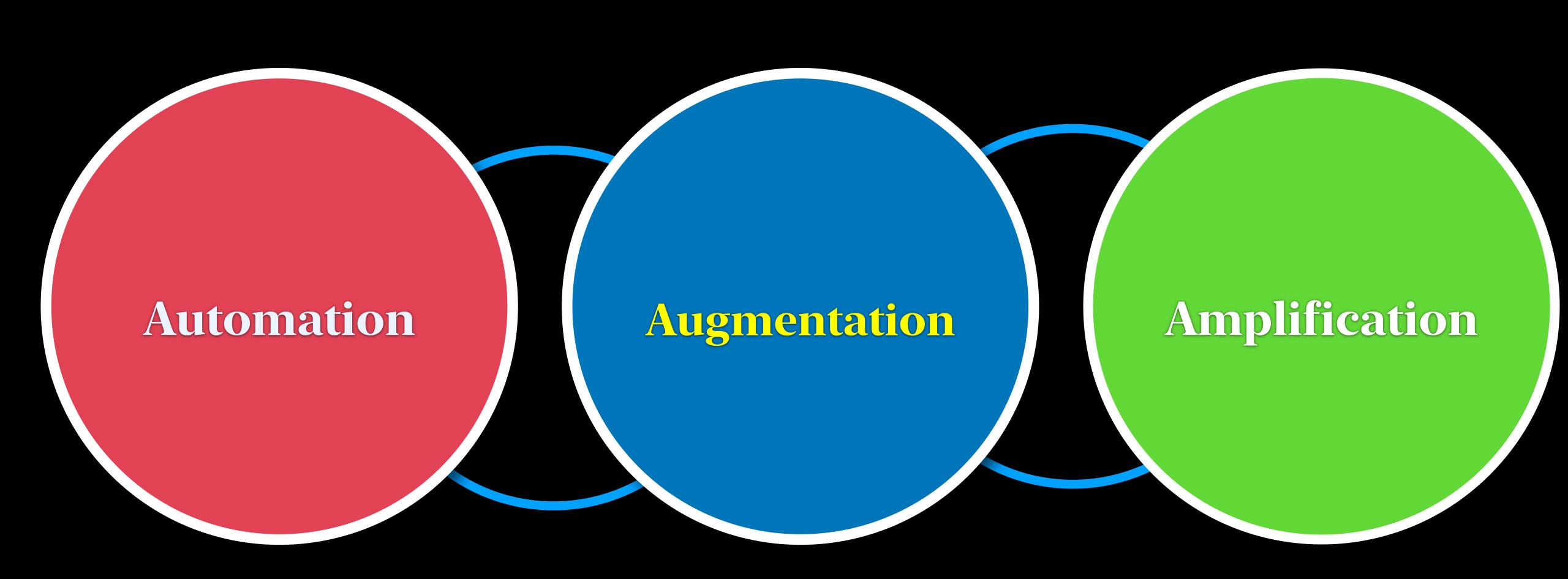
Mobile-Centric

AI-Centric

First Decade Second Decade Third Decade



Humans • Machines







Identify & Overcome Transformation Traps Inside Your Firm.





Does your transformation roadmap reflect the potential impacts of AI?



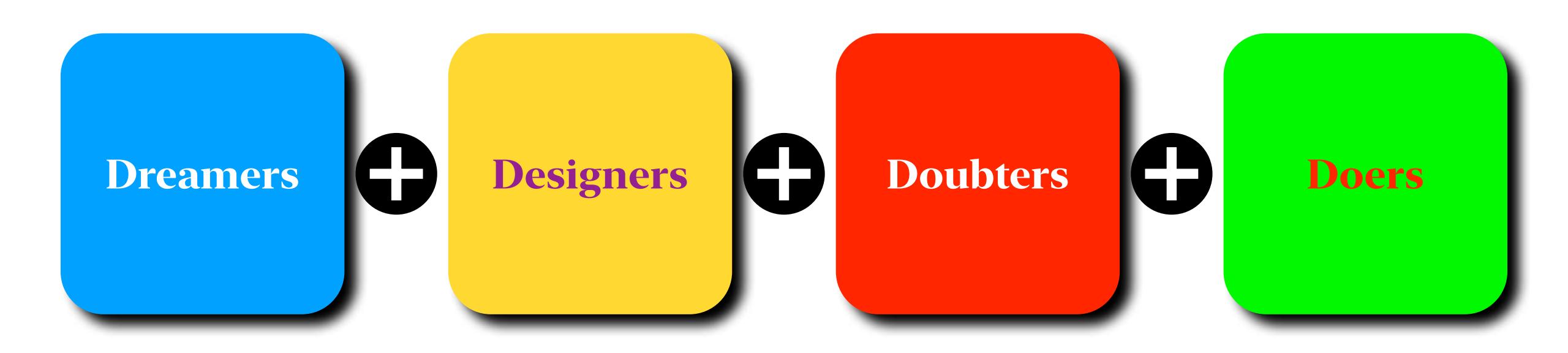








Constitute Your Best Transformation Team.











"The difficulty lies, not in new ideas, but in escaping from the old ones..."

"The secret of change is to focus all of your energy, not on fighting the old, but on building the new."

Thanks Very Much.

