Humanification

Next Generation Testing

IN THE EARLY DAYS CHANGE HAPPEND LOCAL AND SLOW

Image courtesy: Home

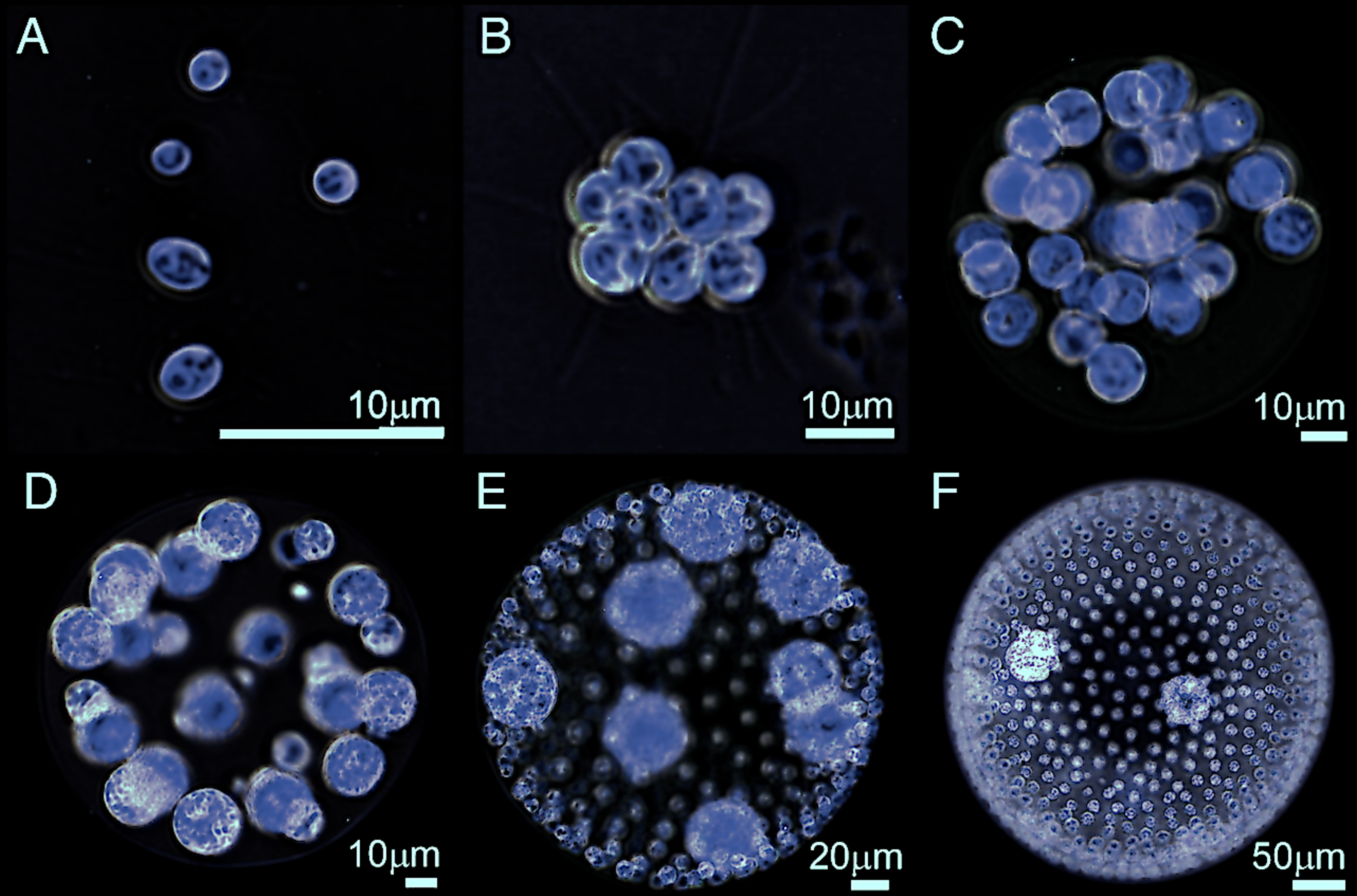

TODAY CHANGE HAPPENS GLOBAL AND EXPONENTIALLY FAST


CHANGE COMES IN WAVES

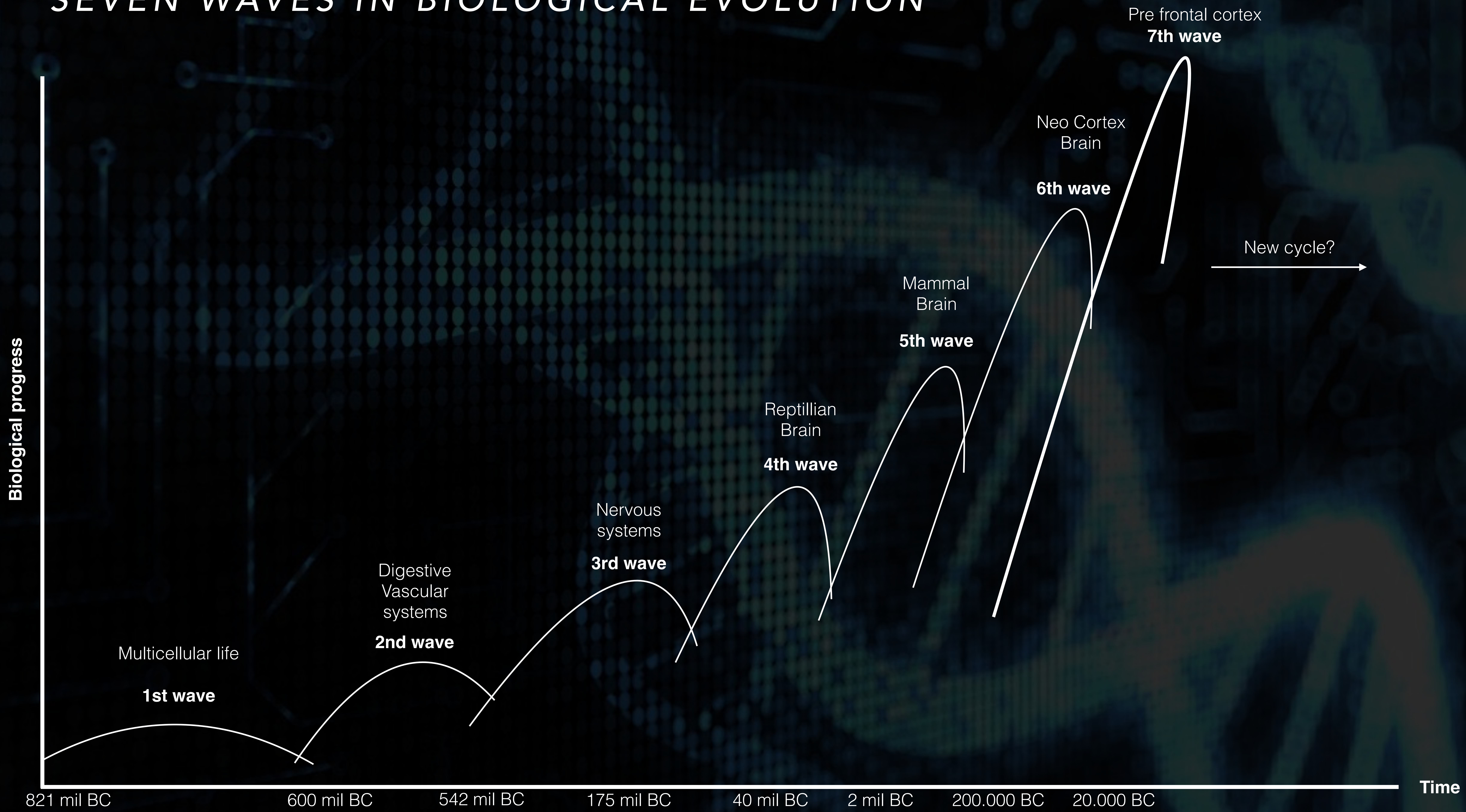
OUR FUTURE IS GROUNDED IN THE TENETS OF BIOLOGY

RELAX VS STRESS

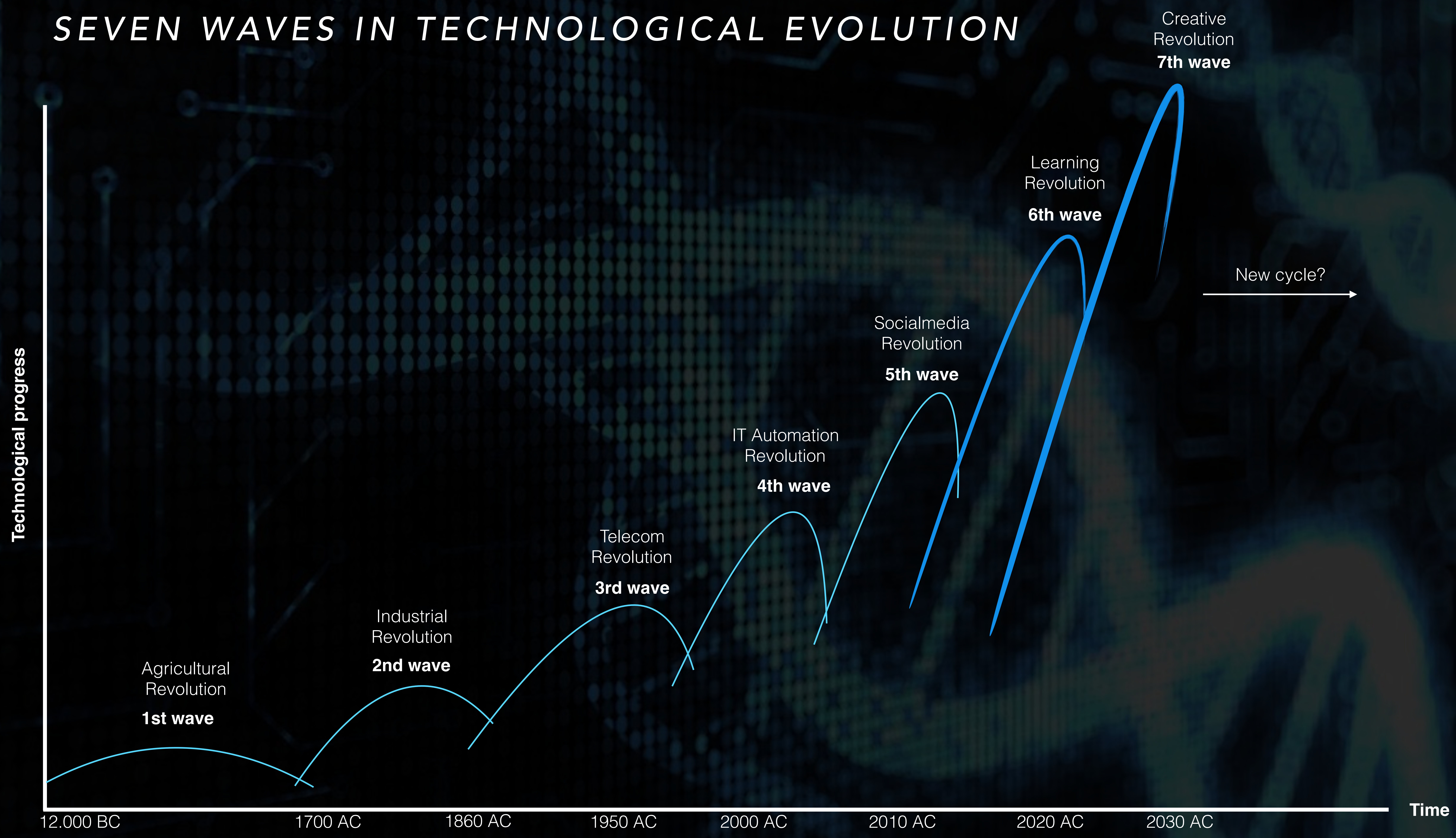
CELLS COMMUNICATE, SOCIALISE, MULTIPLY AND START COMMUNITIES



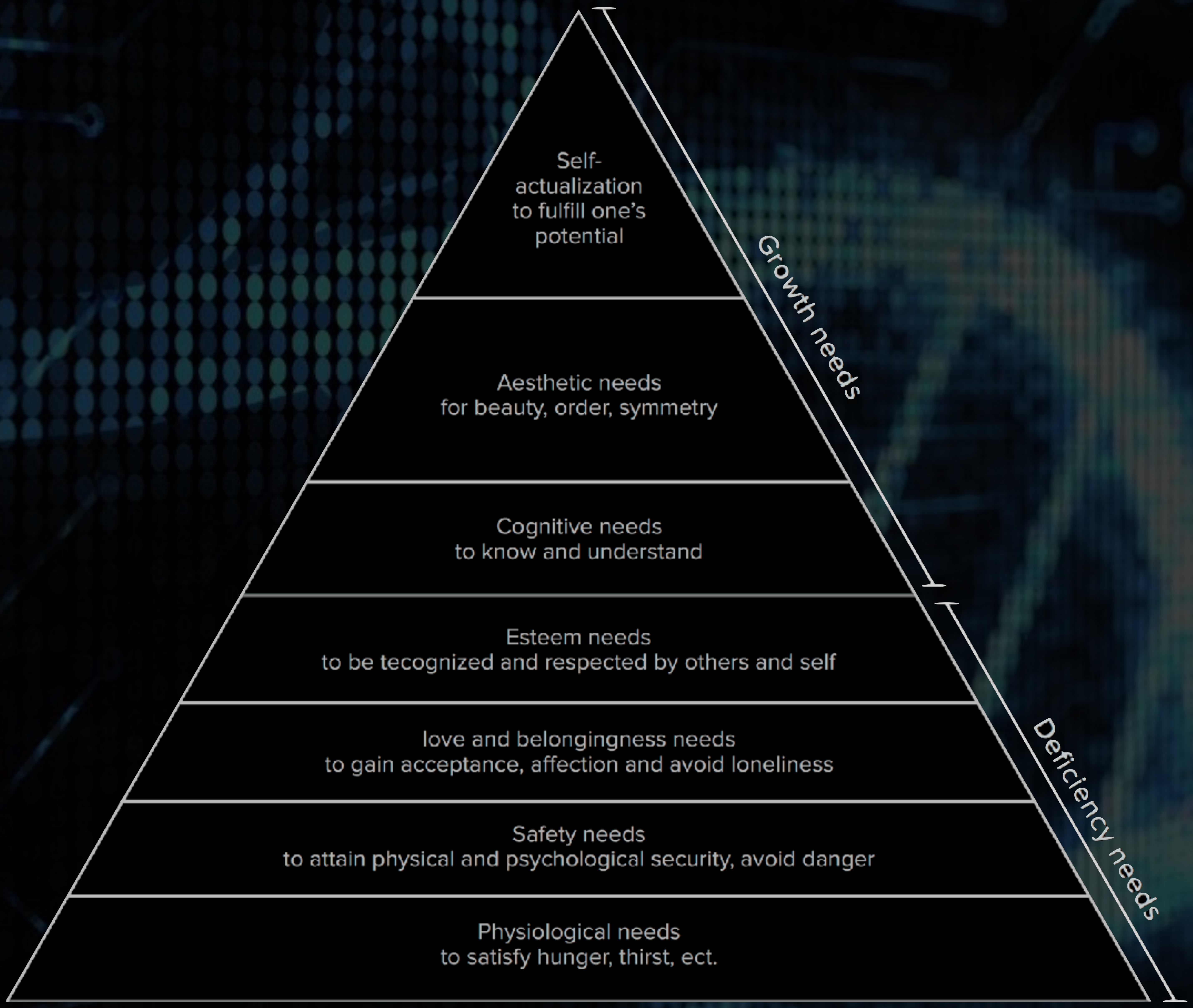
SEVEN WAVES IN BIOLOGICAL EVOLUTION



SEVEN WAVES IN TECHNOLOGICAL EVOLUTION



ORIGINAL 7 LAYER MASLOW PYRAMID OF HUMAN NEEDS



LIKE THE FIRST CELLS, HUMANS STARTED IN SMALL COMMUNITIES

Image courtesy: Yann Arthus Bertrand

AS WE GROW IN NUMBERS WE BECAME MORE SOCIAL BEINGS

Image courtesy: Yann Arthus Bertrand

LIVING IN COMMUNITIES HELPED US TO SURVIVE

Image courtesy: Yann Arthus Bertrand

WAVE 1.0: AGRICULTURAL WAVE (SURVIVAL)

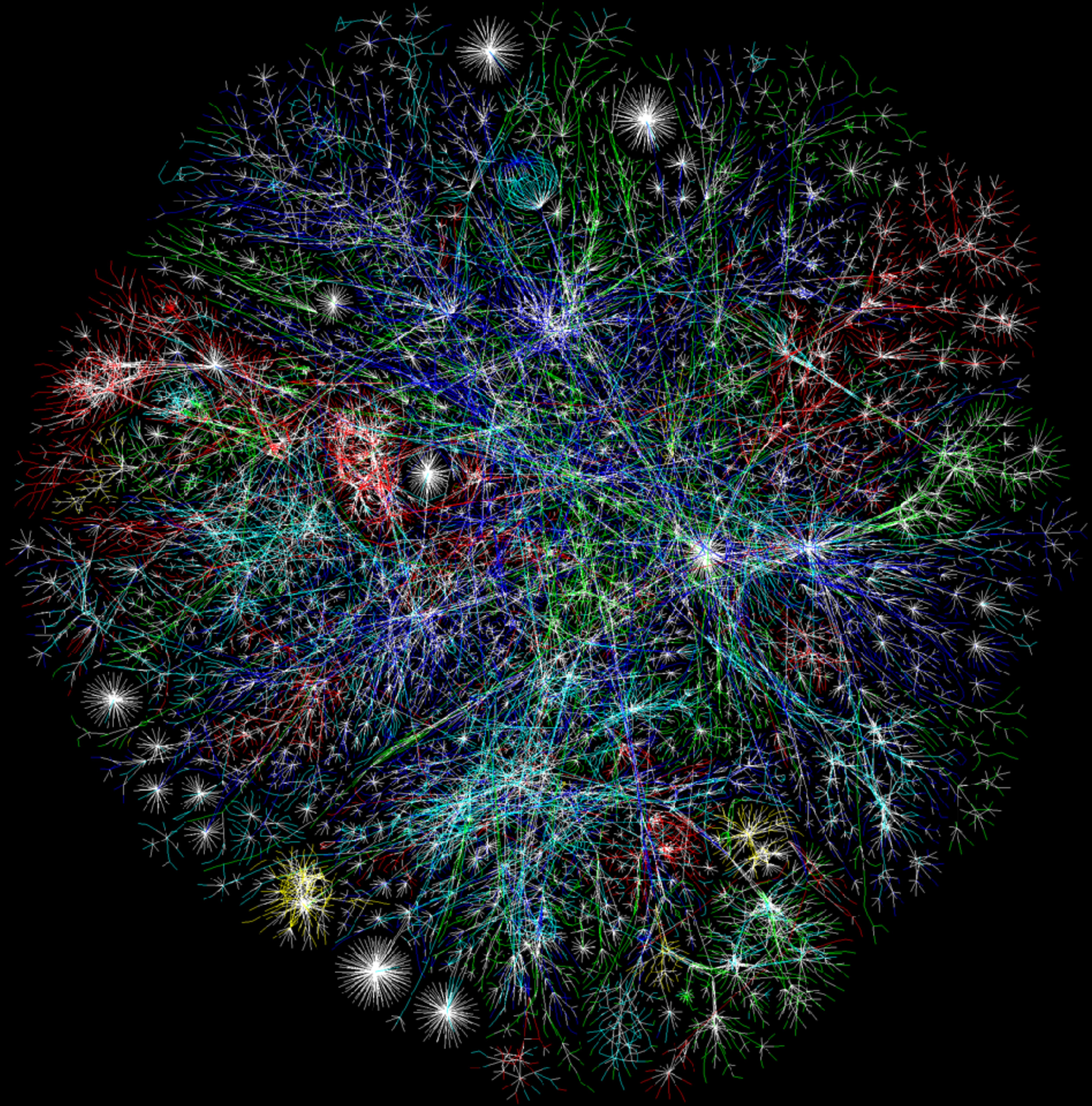
More complex multicellular lifeforms

Image courtesy: Yann Arthus Bertrand

WAVE 2.0: INDUSTRIAL REVOLUTION (SAFETY)

WAVE 3.0: TELECOM REVOLUTION (CONNECTION)

WAVE 4.0: IT AUTOMATION REVOLUTION (AUTONOMY)



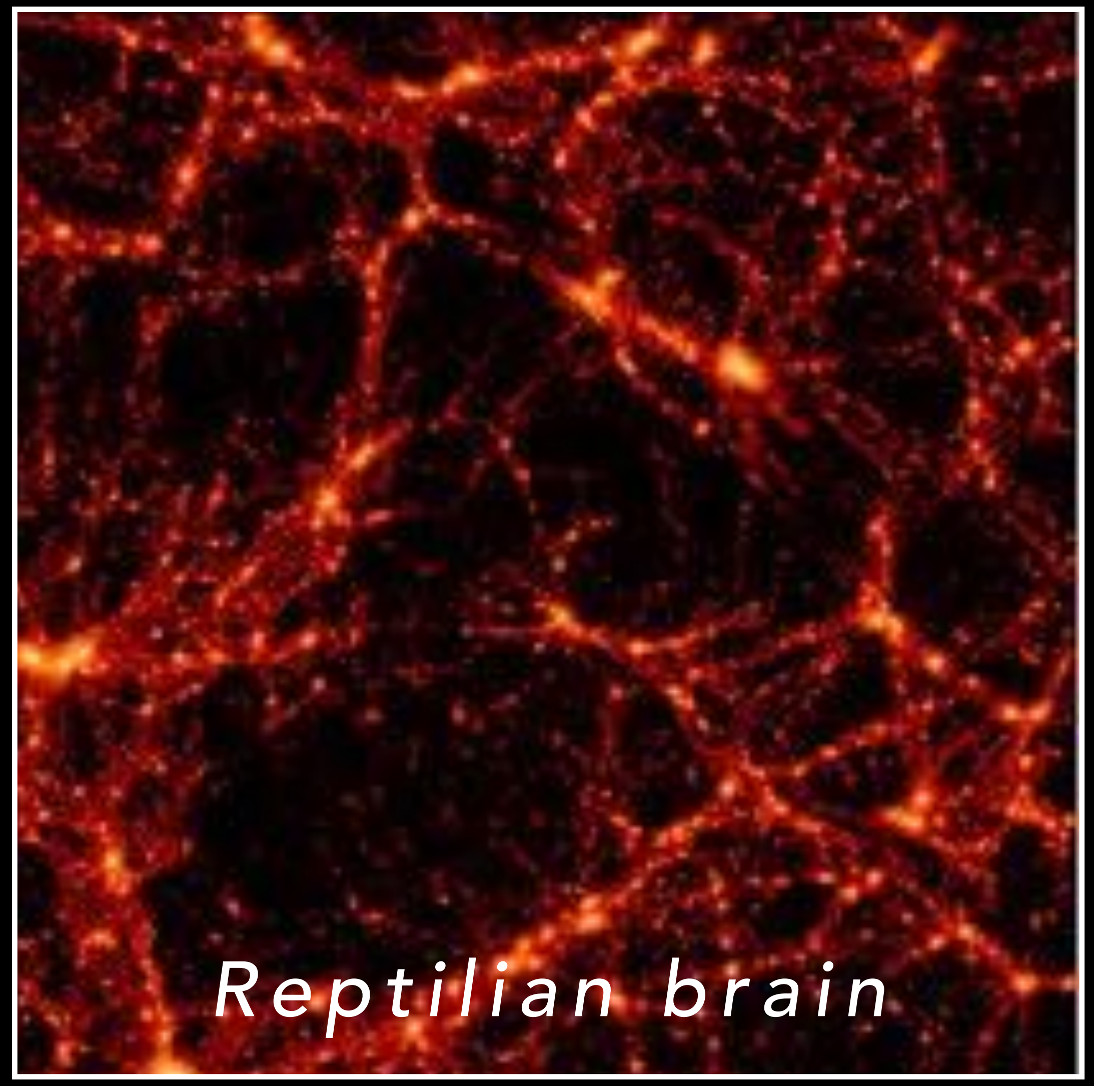


Image courtesy: Visualzation of the Internet

WAVE 5.0: SOCIAL MEDIA REVOLUTION (COGNITION)

Mammal brain

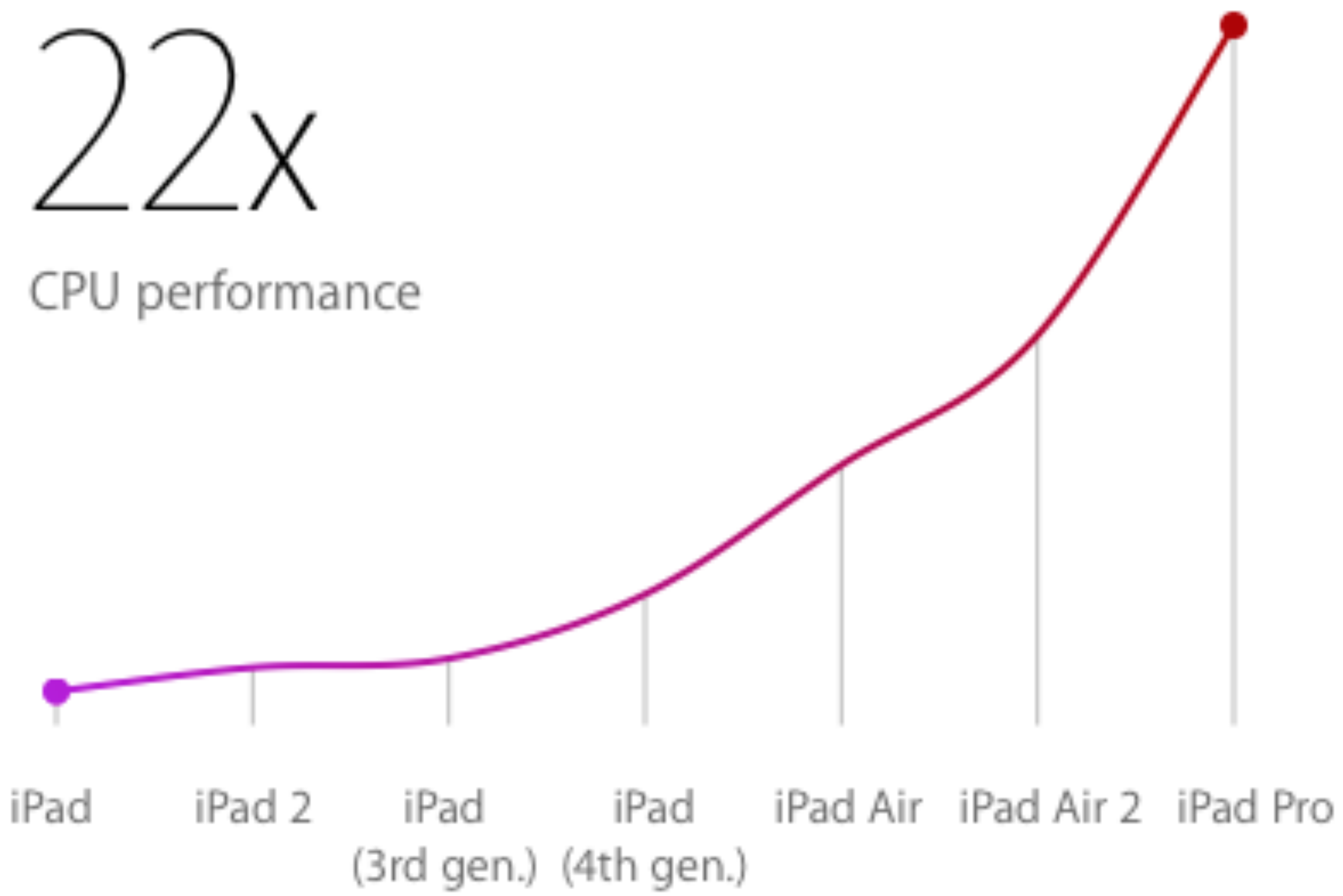
WAVE 6.0: LEARNING REVOLUTION (AESTHETICS)

Neo cortex brain

OUR SOCIETY IS POWERED BY INFORMATION TECHNOLOGY

Image courtesy: Apple

INFORMATION TECHNOLOGY DRIVEN BY MOORE'S LAW



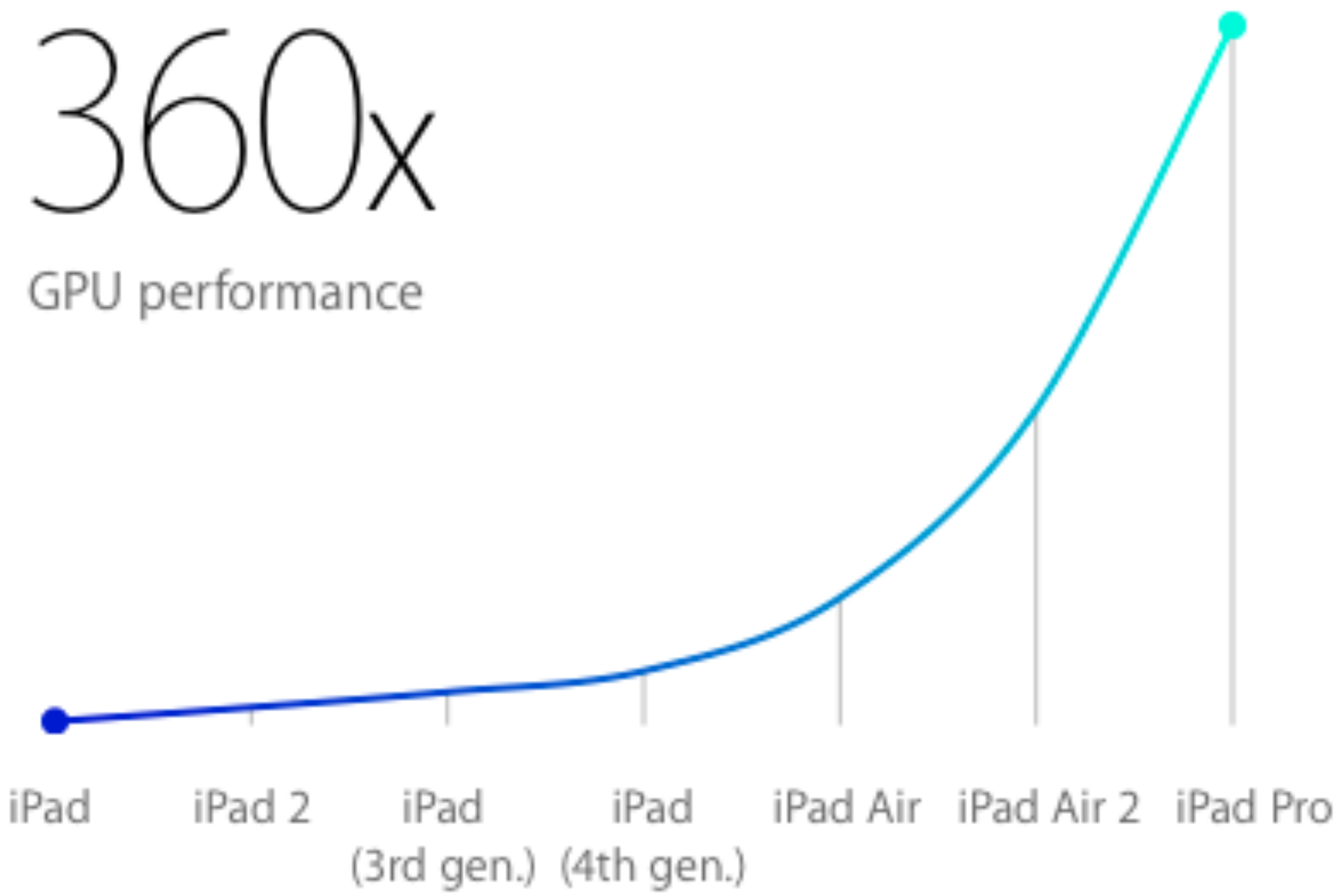


Image courtesy: Apple

THE LAW OF ACCELERATING RETURNS

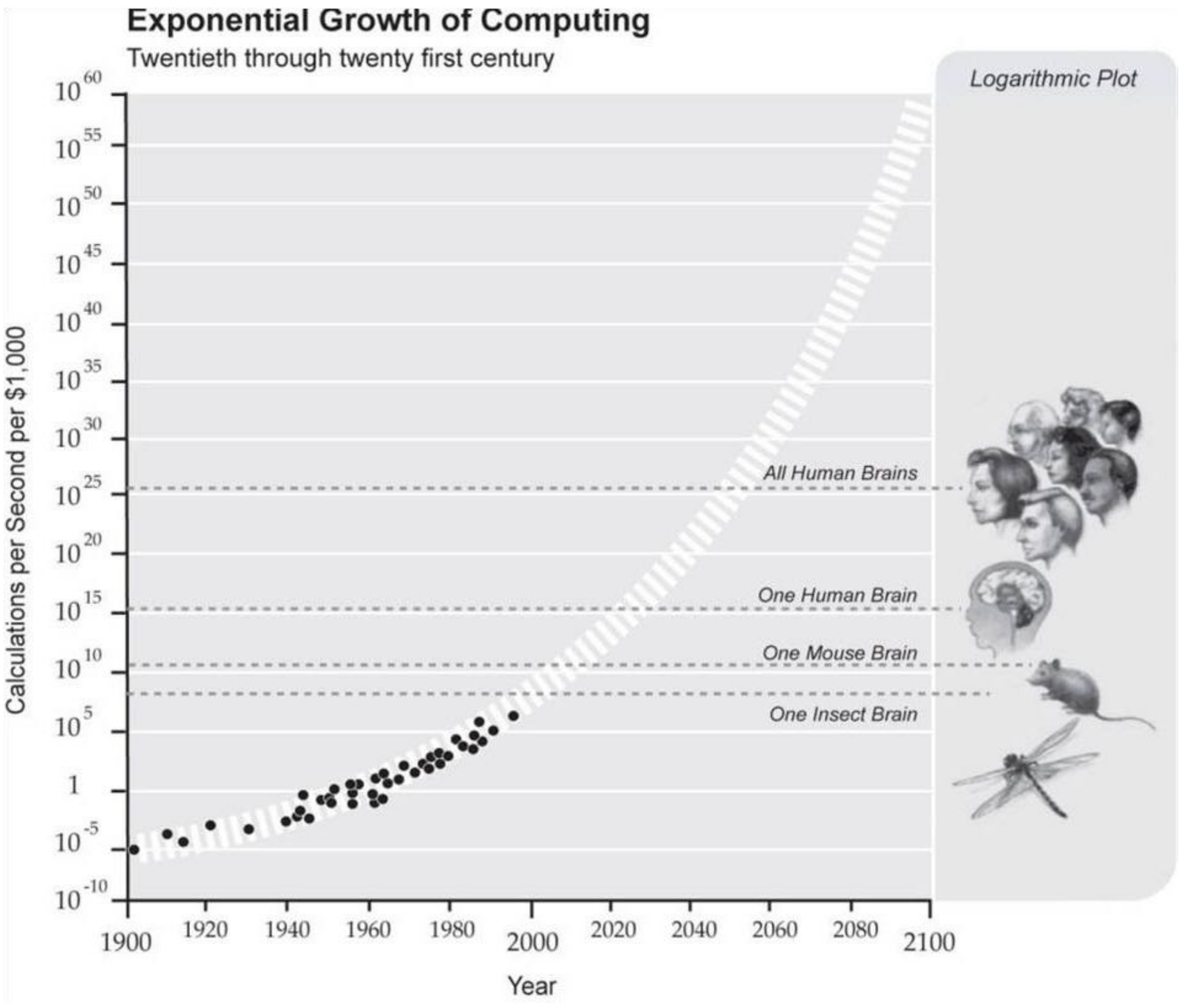
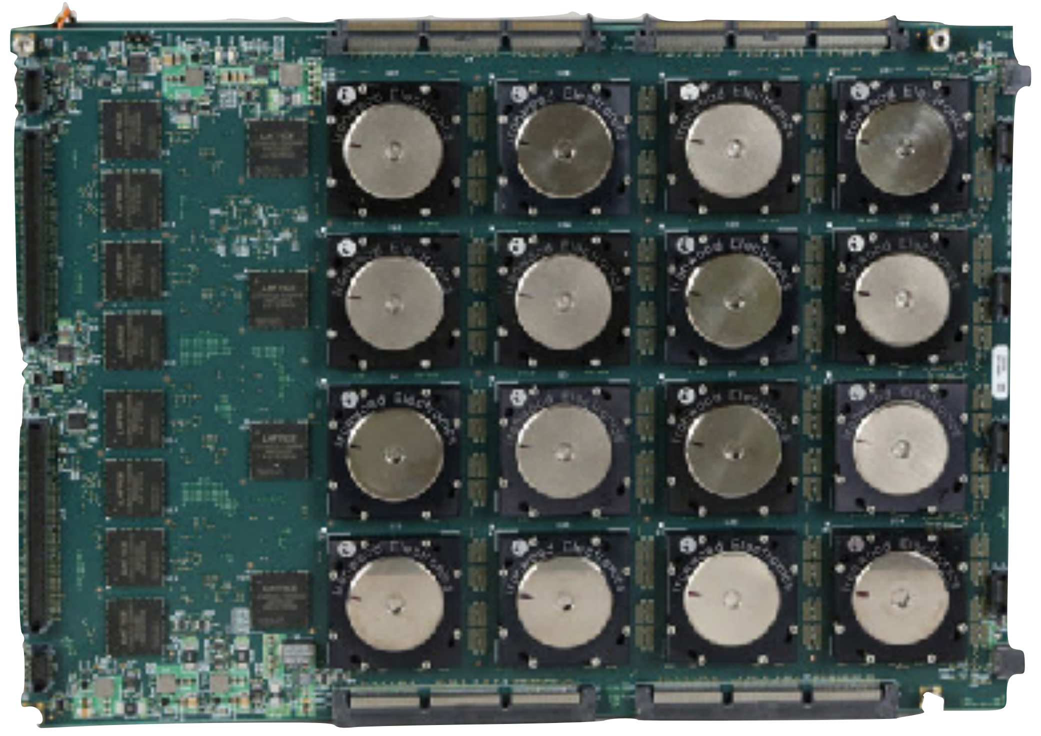


Image courtesy: Ray Kurweil

NEXT GENERATION TECH IS ABOUT DEEP NEURAL NETWORKS

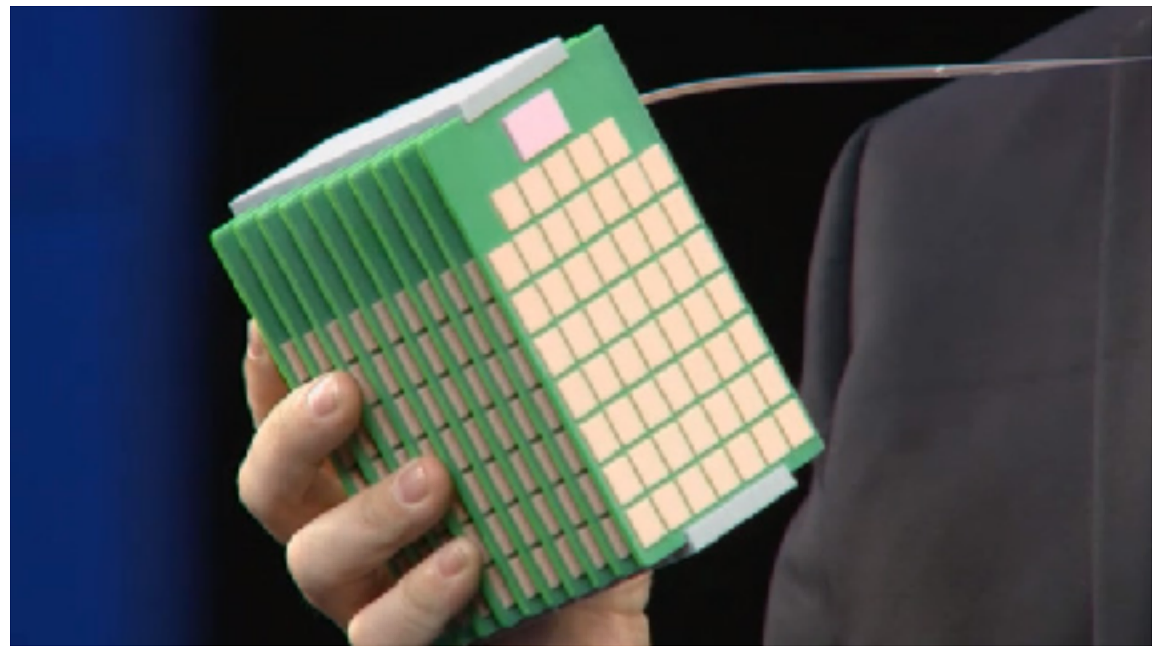
IBM Neurosynaptic chip

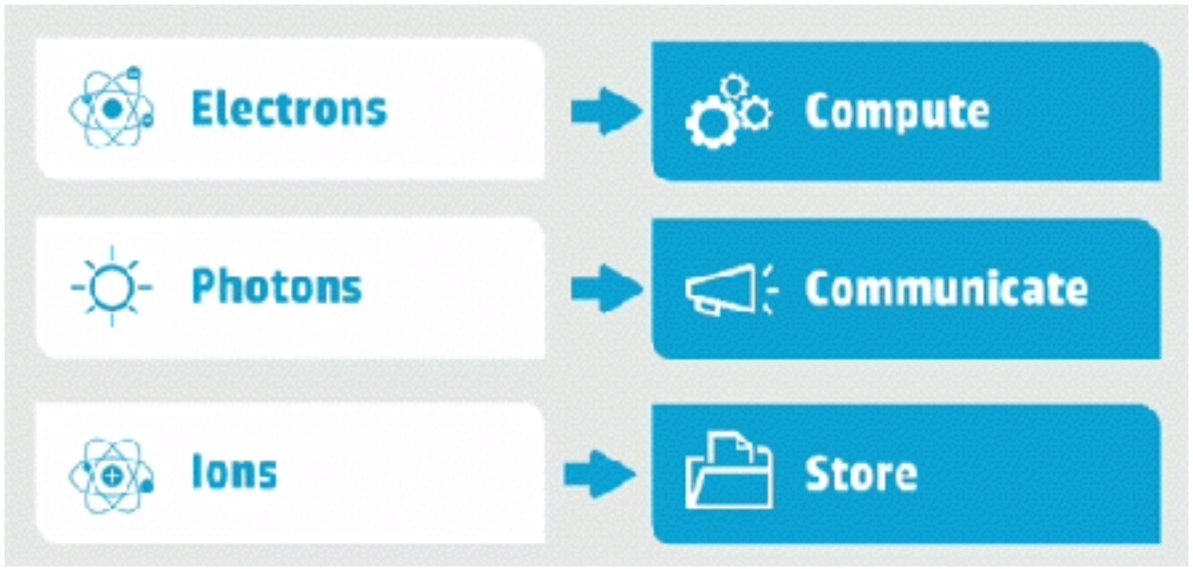


	2011	2014
Programmable neurons	256	1 million
Programmable synapses	262,144	256 million
Neurosynaptic cores	1	4,096

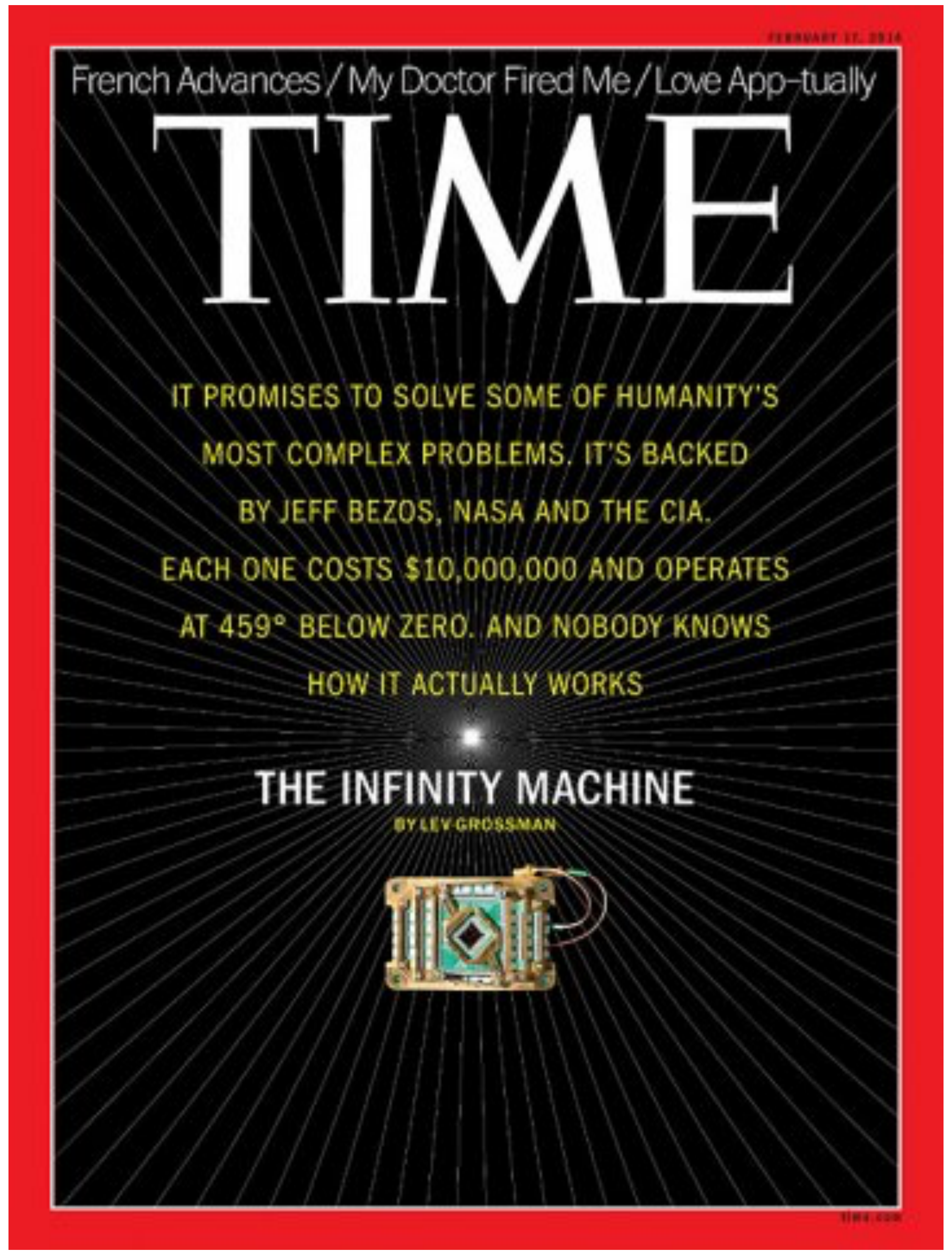
1/10th of a Watt powers the neurosynaptic chip's 256 million synapses ..with the goal to simulate 1 trillion synapses using only 4kW of energy

HP The Machine - Memcomputing





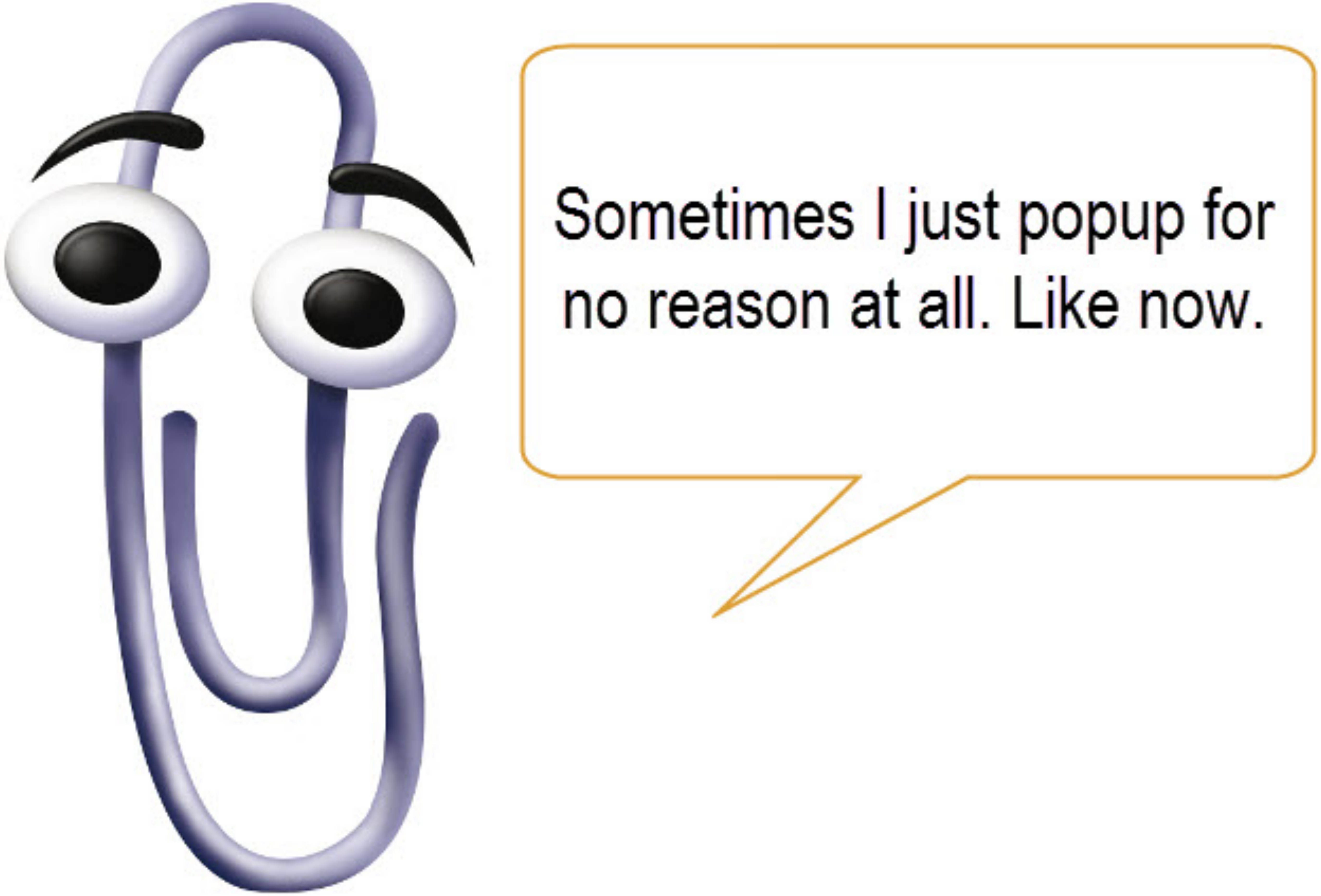
Quantum computers



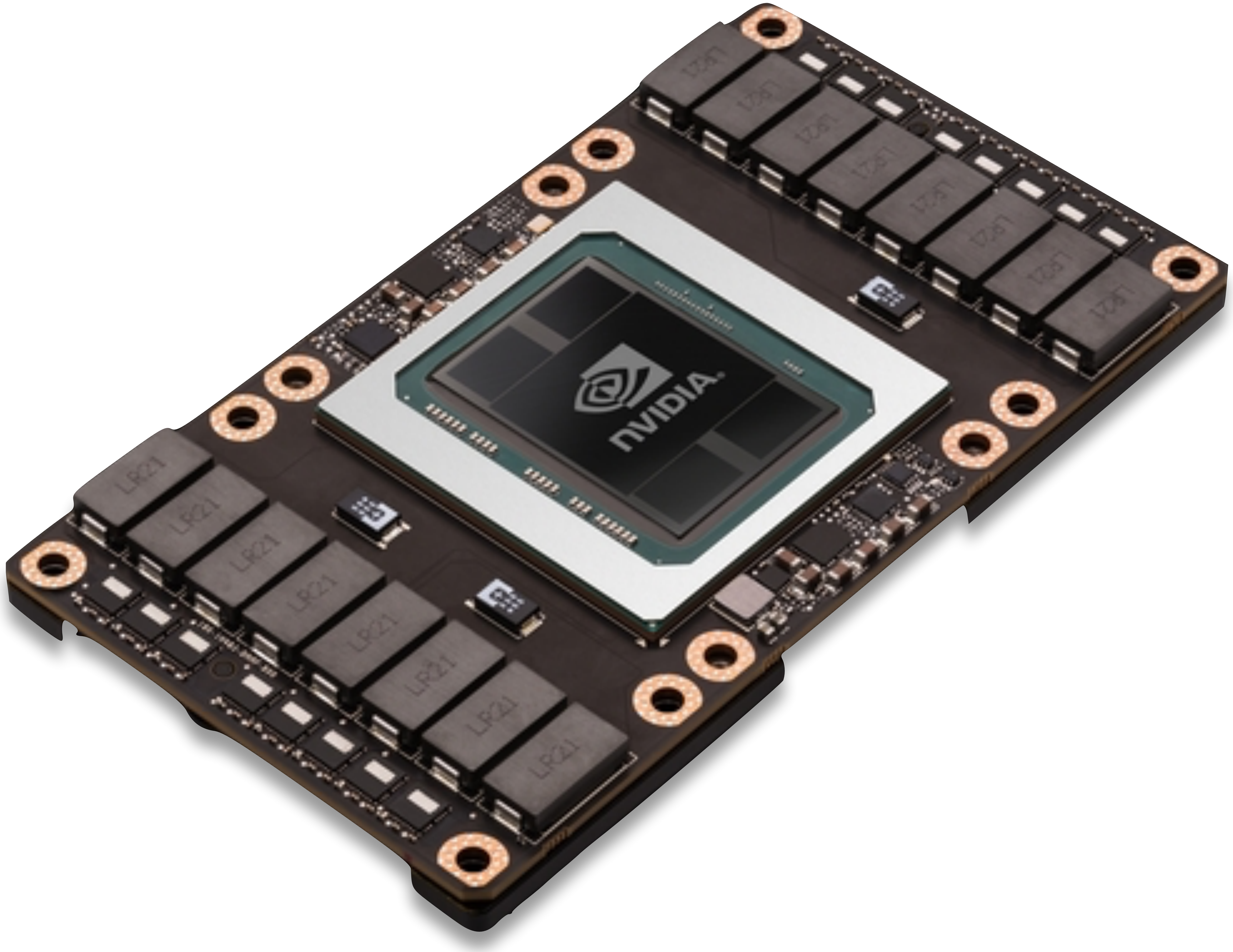
MACHINES THAT MIMIC HUMAN COGNITIVE FUNCTIONS

- Learning
- Problem Solving
- Language Processing
- Decision Making
- Image Recognition

CURRENT STATUS OF ARTIFICIAL INTELLIGENCE



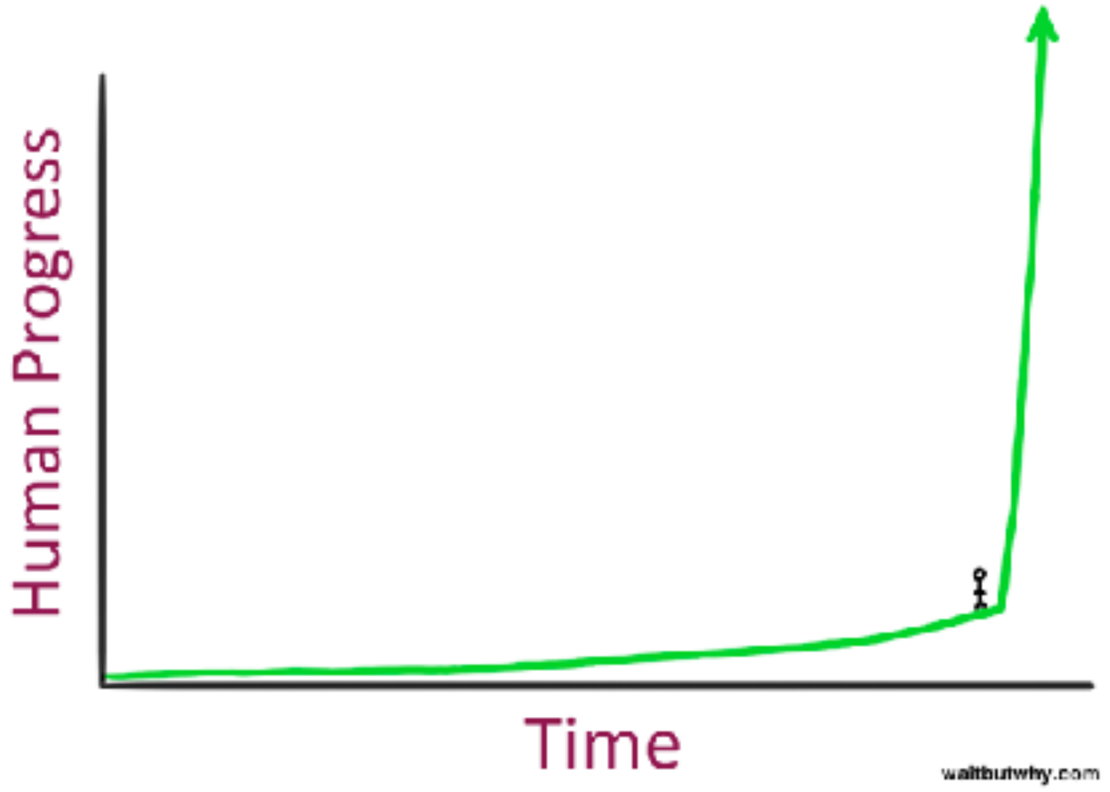
ALL THE 'NUTS AND BOLTS' ARE IN PLACE



- Computing Power
- Smart Algoritms
- Applications
- Capital
- Tallent
- Data

LEVELS OF ARTIFICIAL INTELLIGENCE

ASSISTANT

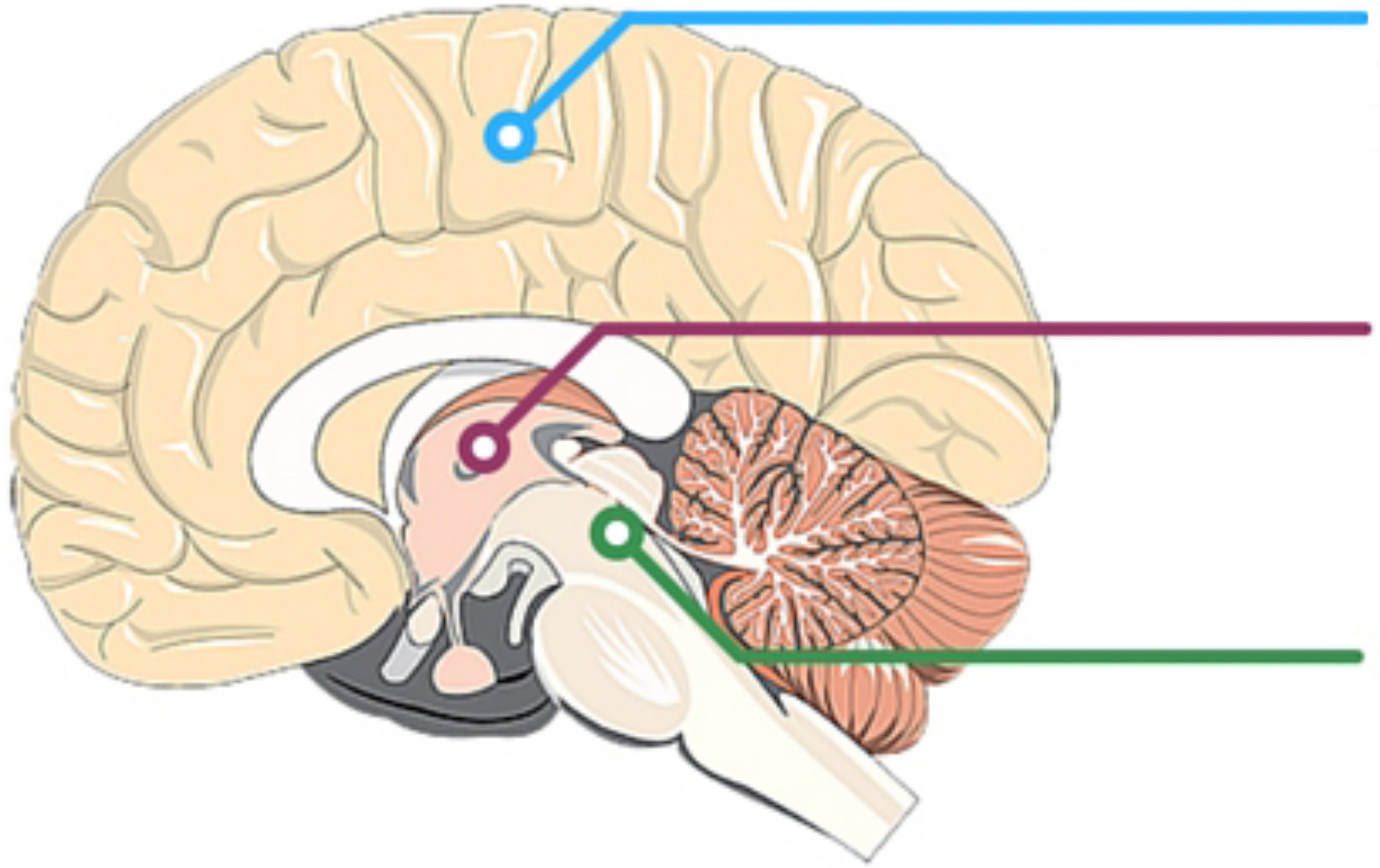


Narrow Intelligence

General Intelligence

Super Intelligence

UNDERSTANDING OUR BRAIN



Google DeepMind

IBM Watson

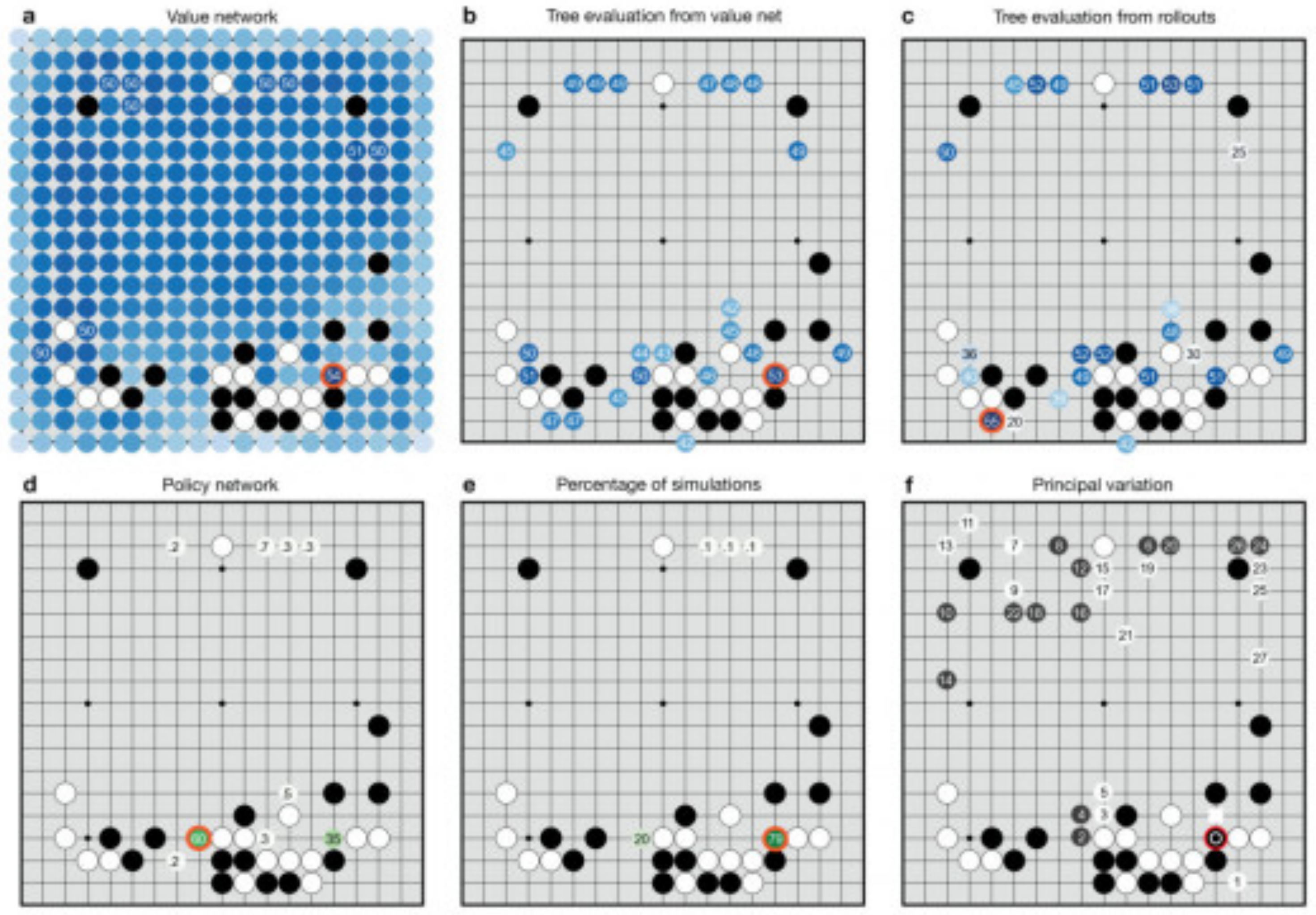
facebook

YouTube

Microsoft

Mac OS

GOOGLE'S AI PLATFORM CAN NOW LEARN WITHOUT HUMAN INPUT



AlphaGo

A Decade Before It's Time

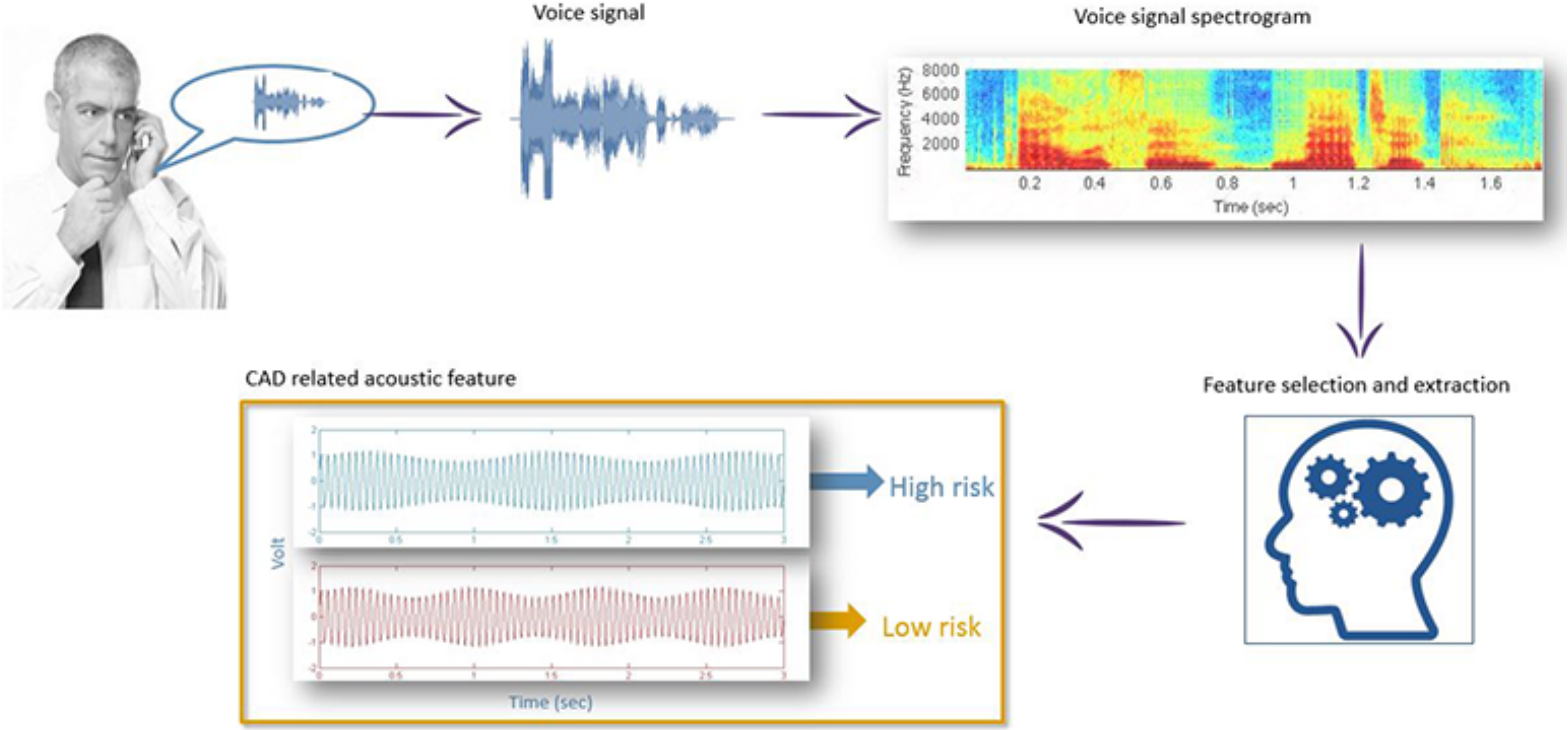
Google DeepMind

Reinforced Learning

GOOGLE TRANSLATE JUST GOT 60% BETTER

SCANADU MEASURES 13 BODY VITALS IN ONE CLICK

BEYOND VERBAL USES VOICE AS DIAGNOSTIC BIOMARKER FOR CORONARY ARTERY DISEASE



GOOGLE'S A.I. IS TRAINING ITSELF TO COUNT CALORIES IN FOOD PHOTOS

Image courtesy: Google

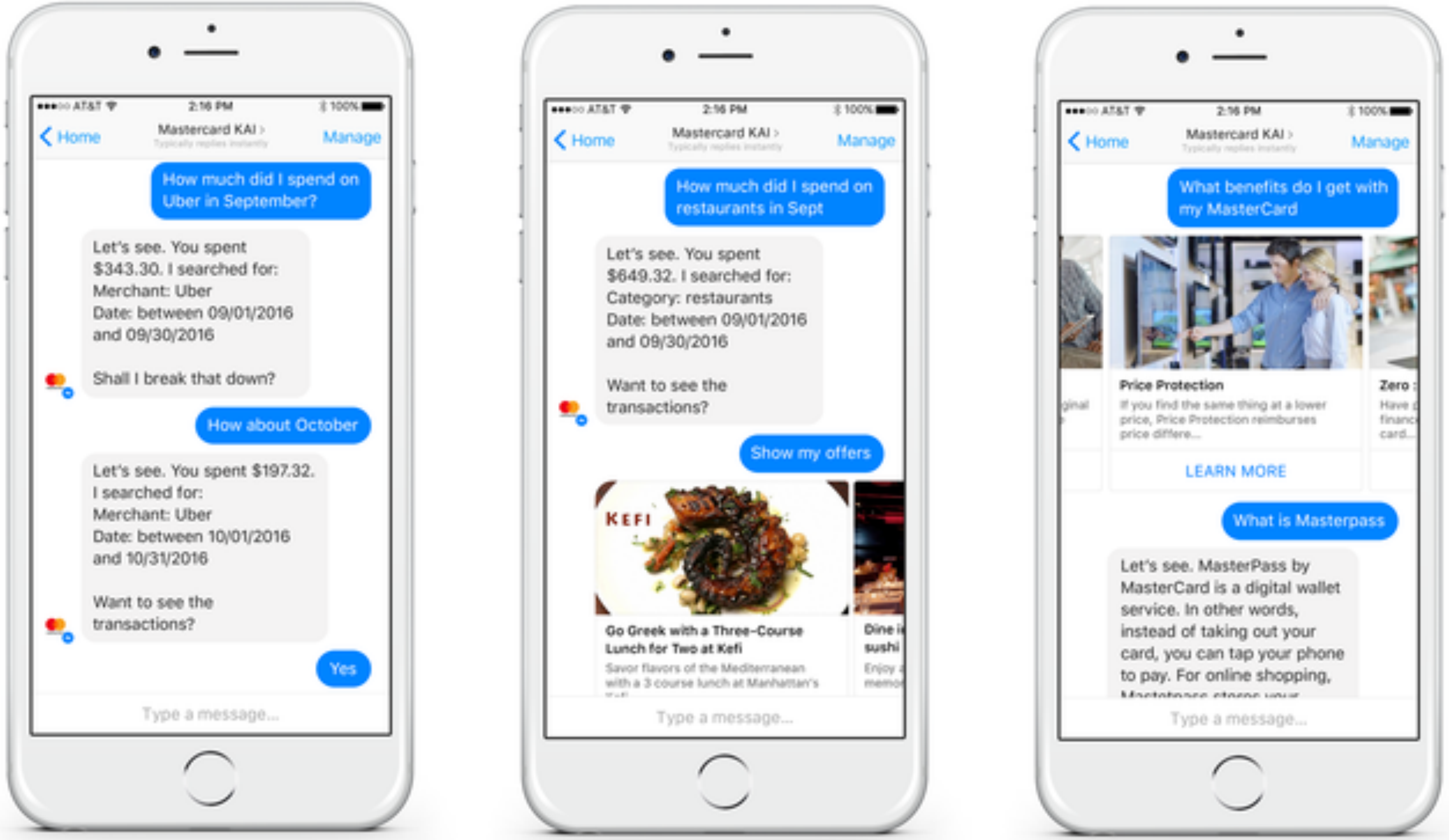

AI WILL AUTOMATE ALL KIND OF ADMINISTRATIVE TASKS
JUST
WALK
OUT
SHOPPING

GOOGLE PROVED THAT AI CAN RESHAPE MEDICINE

EVERY INDUSTRY WILL BE DISRUPTED, ALSO NON DIGITAL…

MASTERCARD USERS WILL HAVE THEIR OWN VIRTUAL PRIVATE BANKER

mastercard



POWERED BY

kasisto

SMART ASSISTANTS IN YOUR HOME MAKE TRANSACTIONS

IBM WATSON AI ALREADY OUTPERFORMS A TEAM OF DOCTORS

WIRED.CO.UK FOLLOW

NEWS Topics / TECHNOLOGY IBM WATSON AI SUPERCOMPUTERS MEDICAL SCIENCE MEDICINE more

IBM's Watson is better at diagnosing cancer than human doctors

...NOLOGY / 11 FEBRUARY 13 / by IAN STEADMAN

...Watson -- the language-fluent computer that beat the ...man champions at a game of the US TV ...pardy! -- is being turned into a tool for medical ... Its ability to absorb and analyse vast quantities of ...BM claims, better than that of human doctors, and ...yment through the cloud could also reduce ...re costs.

Watson's successful diagnosis rate for lung cancer is 90 percent, compared to 50 percent for human doctors.

The Great Unknown

80% of health data is invisible to current systems because it's unstructured. Watson Health can see it.

Image courtesy: Wired

ARTIFICIAL INTELLIGENCE WILL MAKE TECHNOLOGY MORE HUMAN

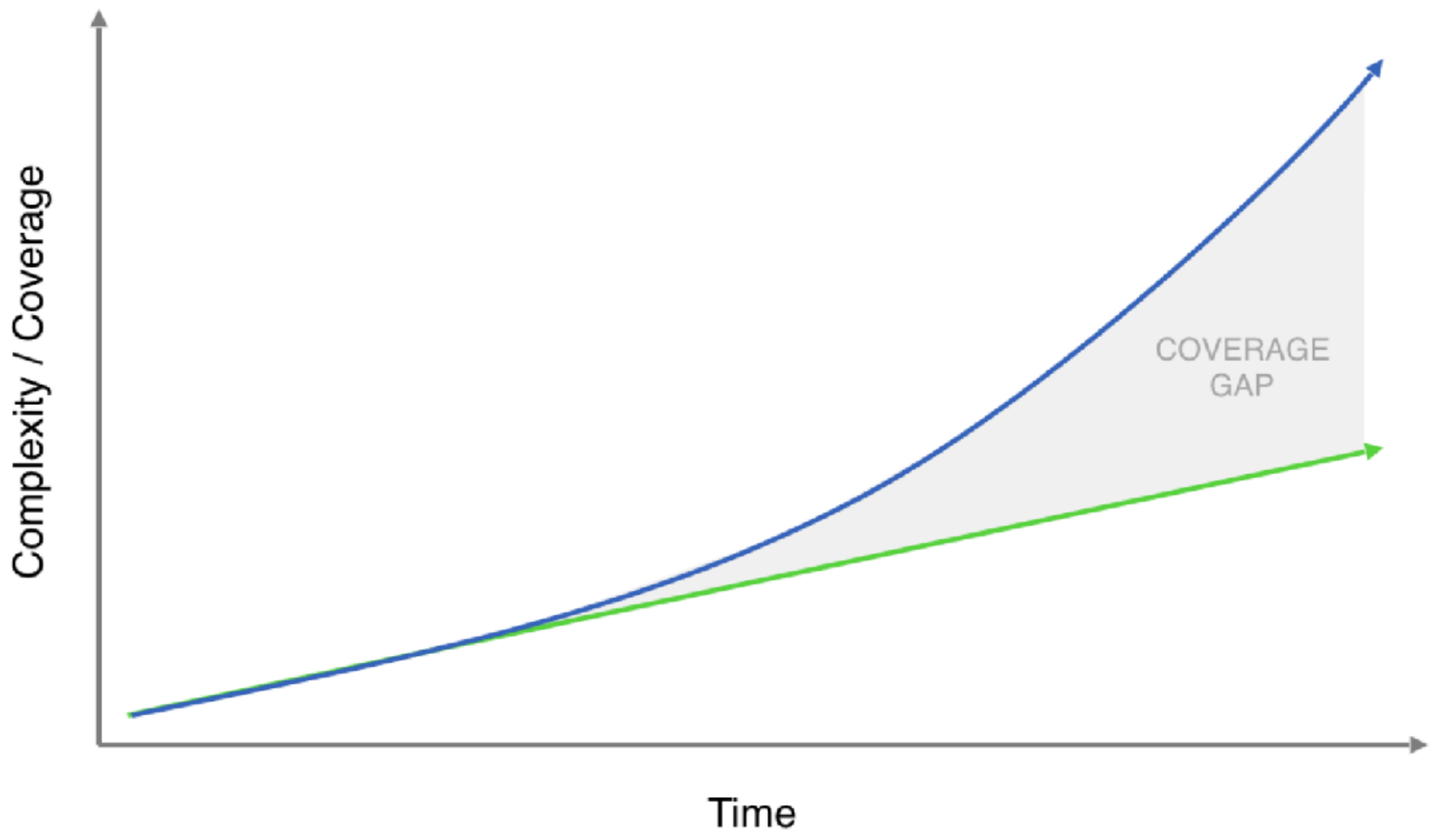
THESE SYSTEMS BEHAVE LIKE BLACK BOXES

200.000.000 >  = X

HOW DO HUMANS MAKE DECISIONS?

ARE PSYCHOLOGISTS THE TESTERS OF THE FUTURE?

TESTERS WILL NEED THE HELP OF ARTIFICIAL INTELLIGENCE



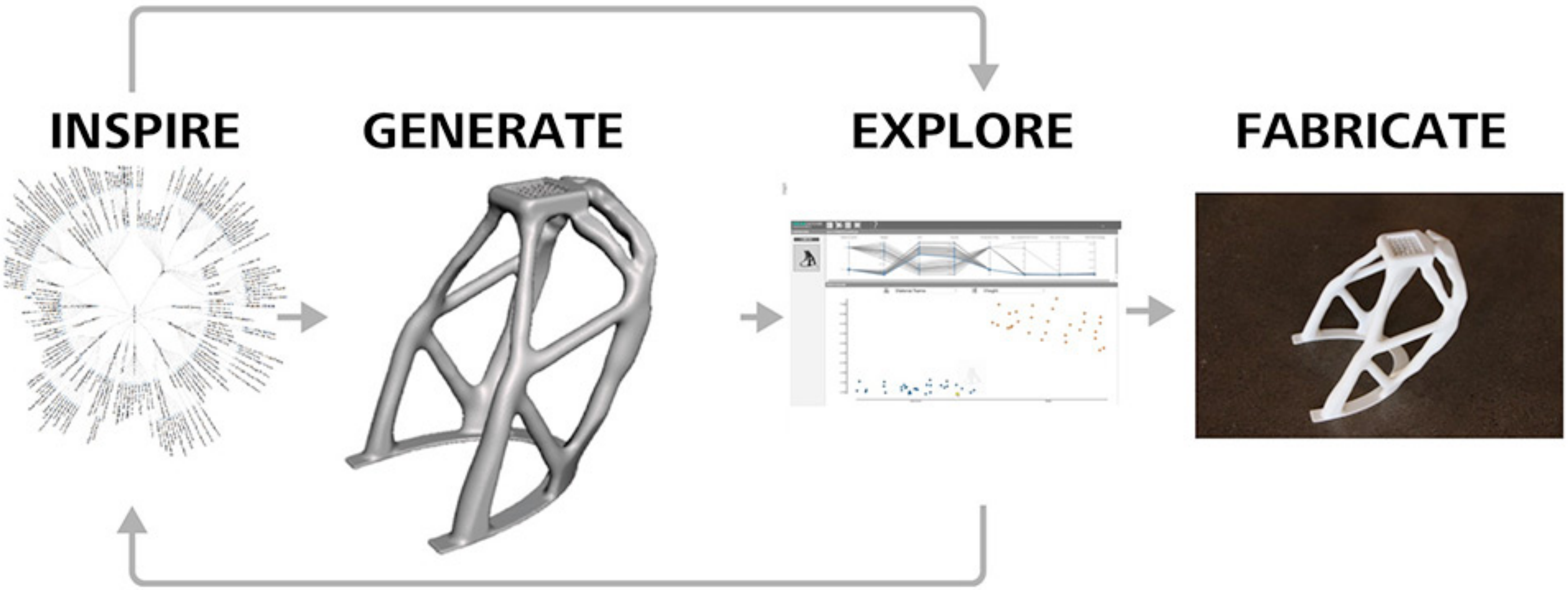
Features

Complexity increases exponentially as new features and states interact with existing features

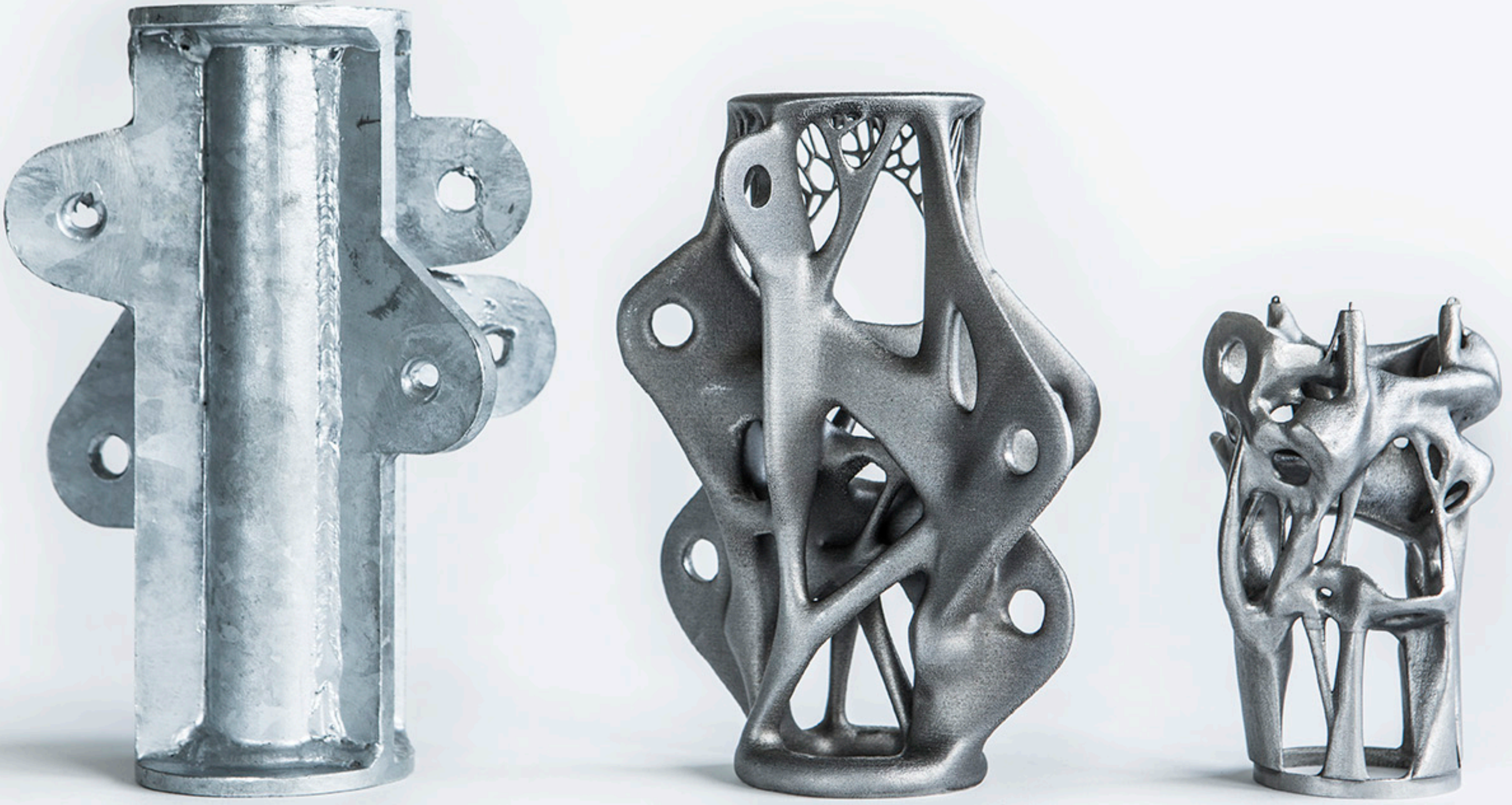
Tests

Test coverage grows linearly because they can only be added one at a time

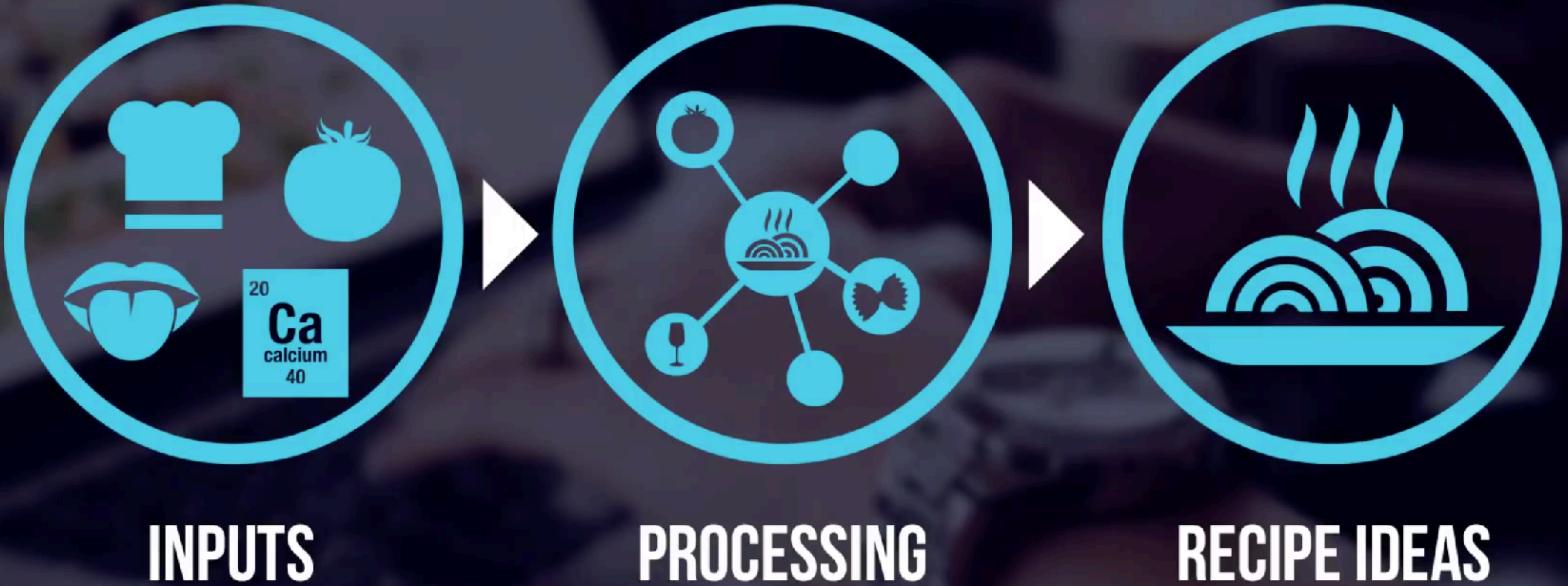
FUNDAMENTAL CHANGE IN SOFTWARE DEVELOPMENT WORKFLOW



MACHINE LEARNING RESULT WILL CHALLENGE YOUR THINKING

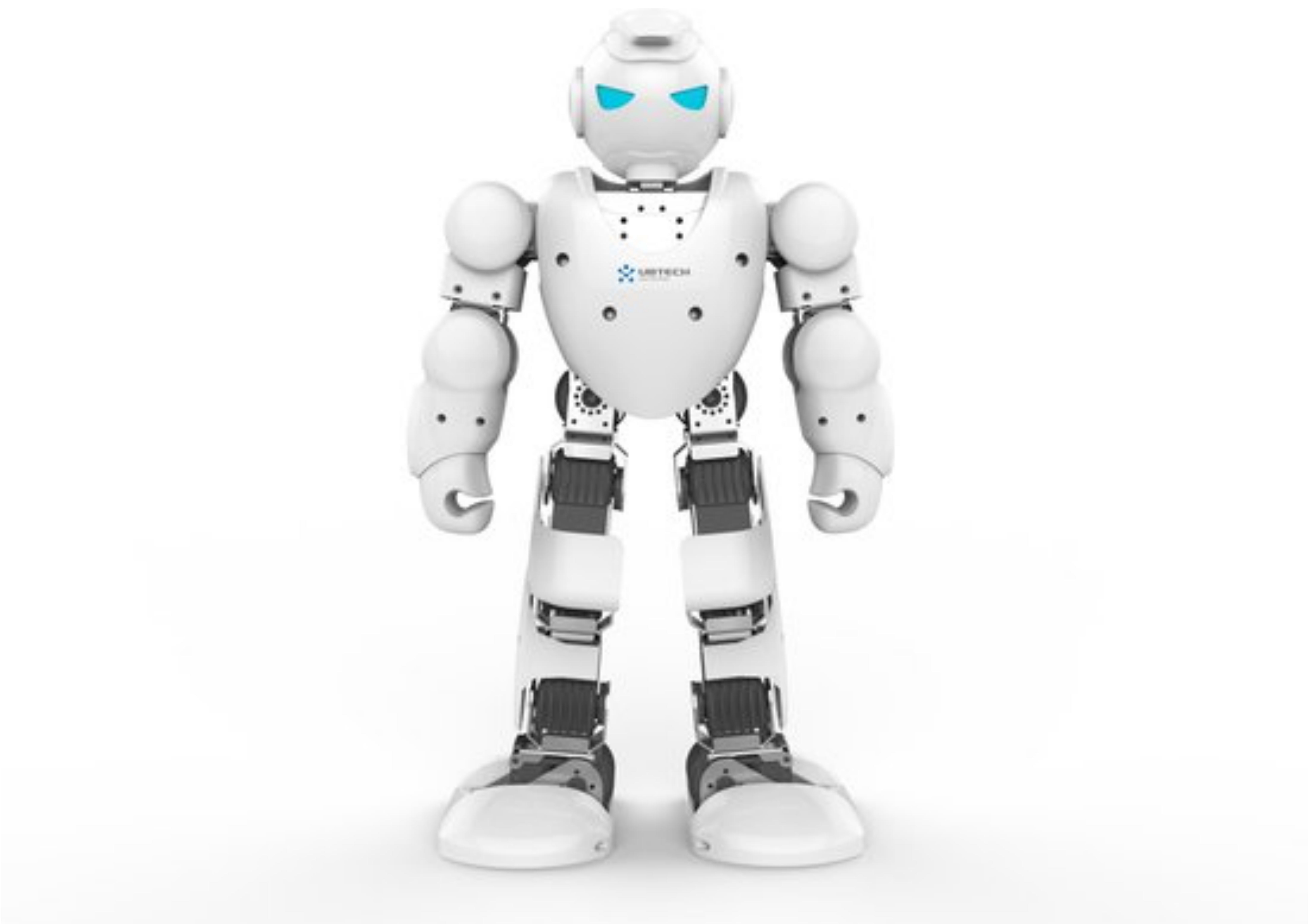


IBM WATSON CHEF: VIRTUAL CHEF COOK

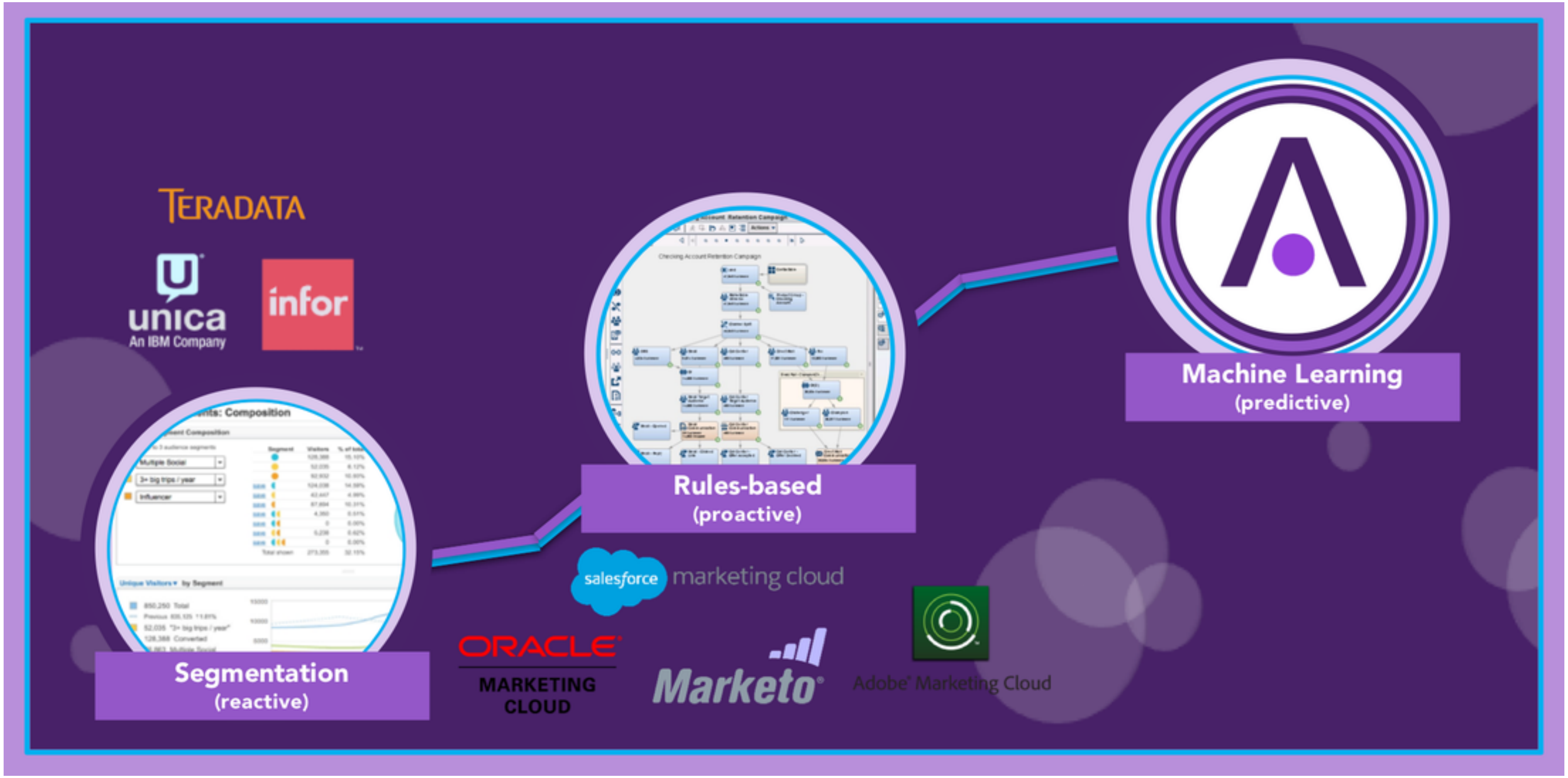


DEEPCODER BY UNIVERSITY OF CAMBRIDGE & MICROSOFT

AI POWERED TESTBOTS



TESTING ON DIFFERENT LEVEL > AI POWERED A/B TESTING



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