

LOS 60+ EN EL SIGLO XXI:

TODOS LOS FUTUROS POSIBLES

GABRIEL GUROVICH



¿Quién sabe lo que está sonando?

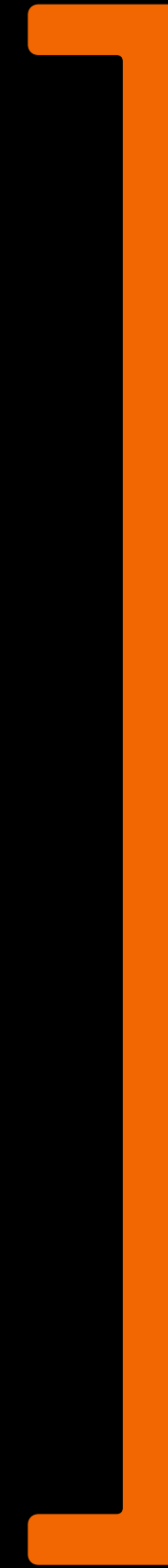
una pista: $2^{(x-1)}$

En la casilla 30 ya son:

1,073,741,824 granos de arroz!



1950



2013



Ray Kurzweil: Ley de los Retornos Acelerados

El cambio tecnológico es exponencial, contrario al sentido común y la “intuición” lineal

Las tecnologías de la información (de todo tipo)

DOBLAN SU PODER

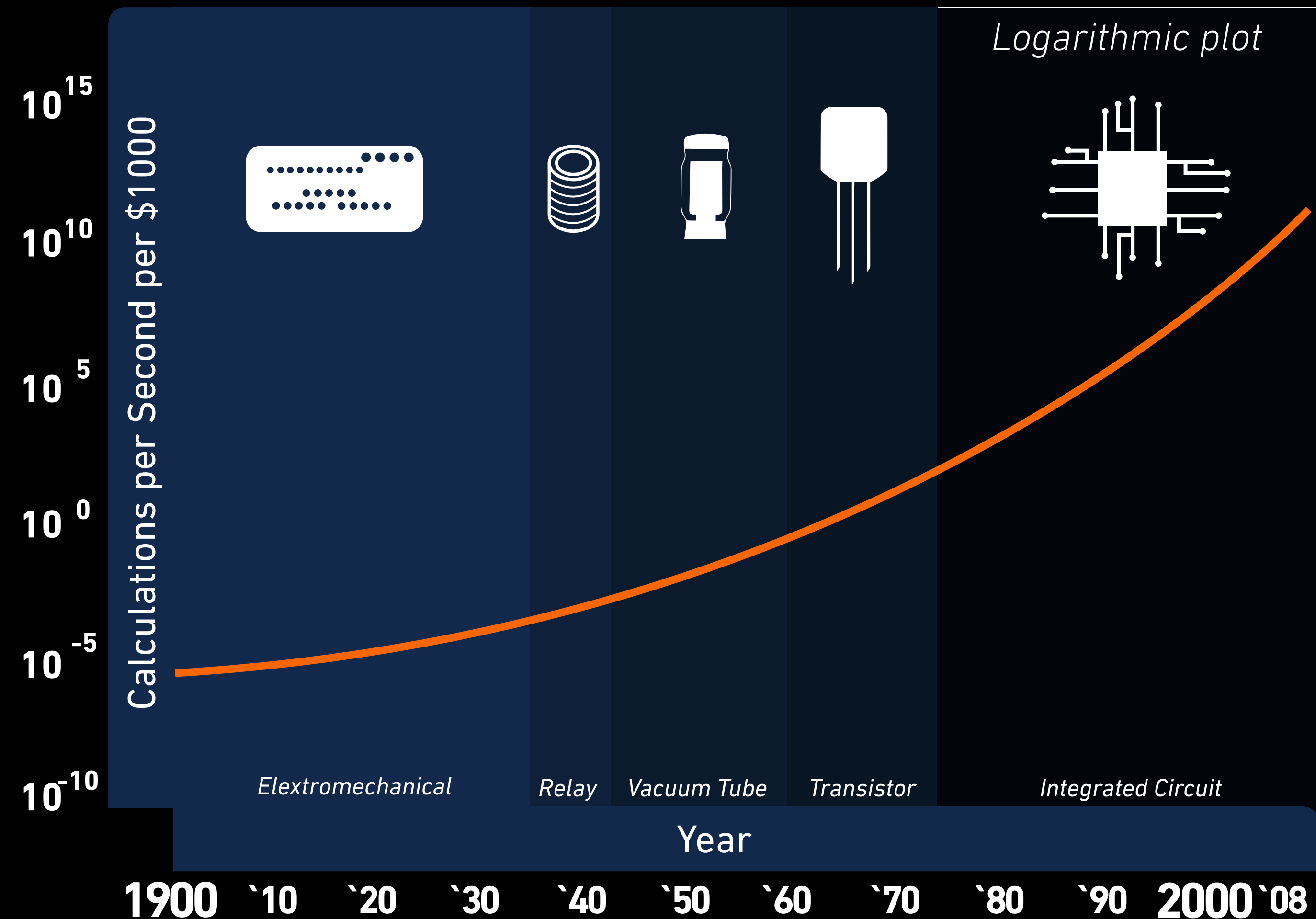
(precio/performance, capacidad, ancho de banda, etc.)

CADA AÑO



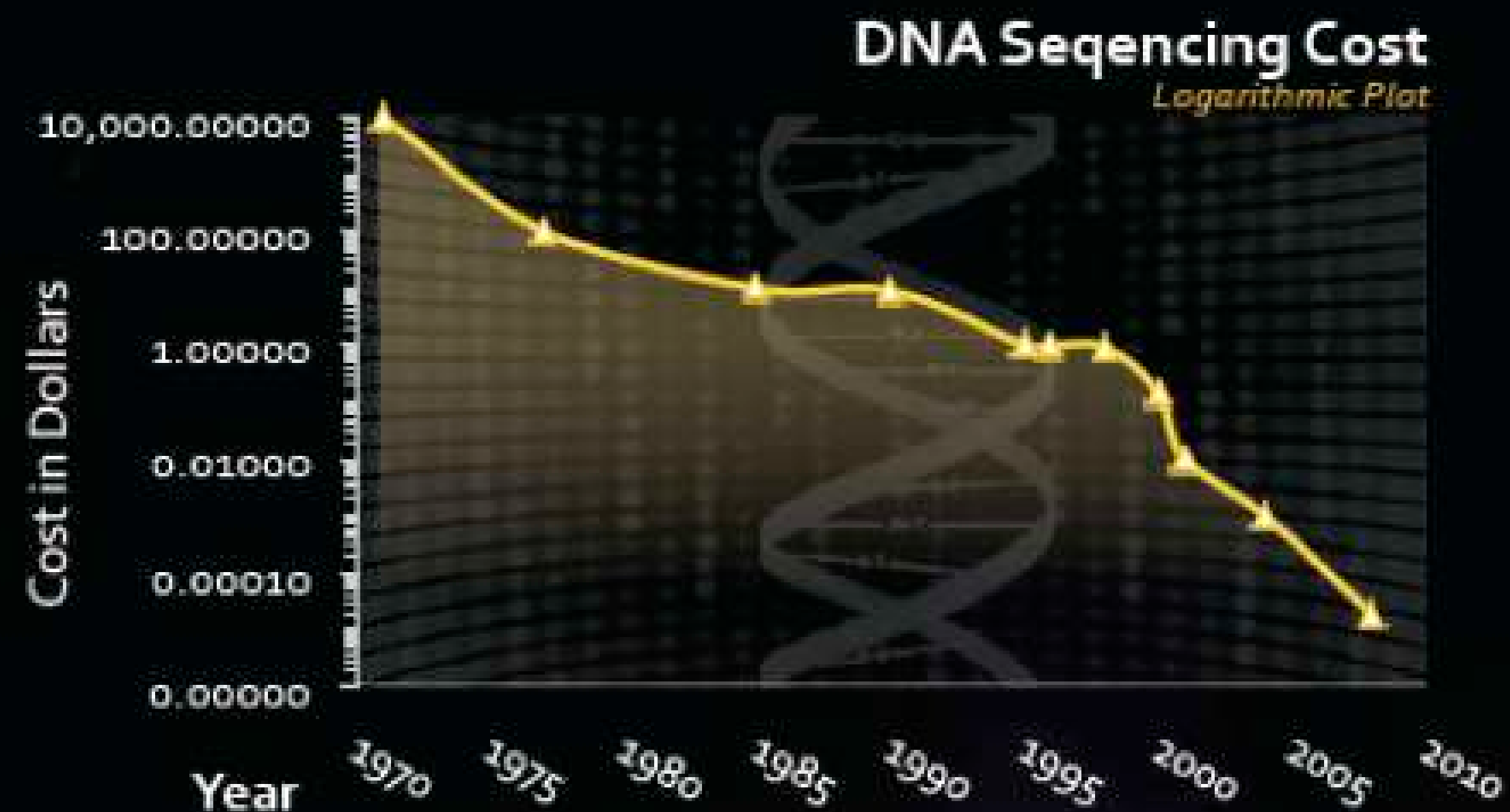
*La ley
de Moore
es sólo
un ejemplo!*

Exponential growth of computing for 110 years

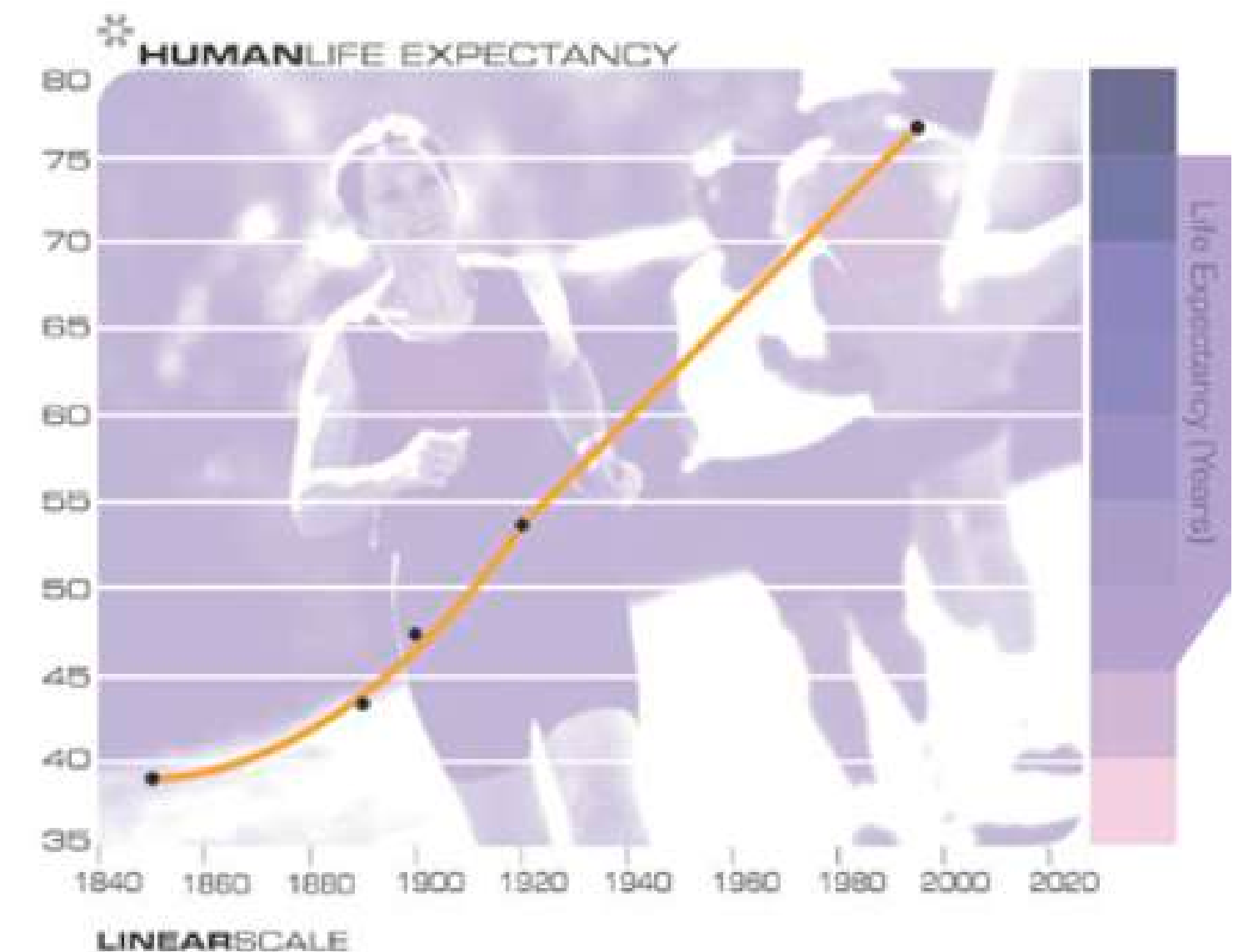


y se verifica en otras áreas

DNA Sequencing Cost

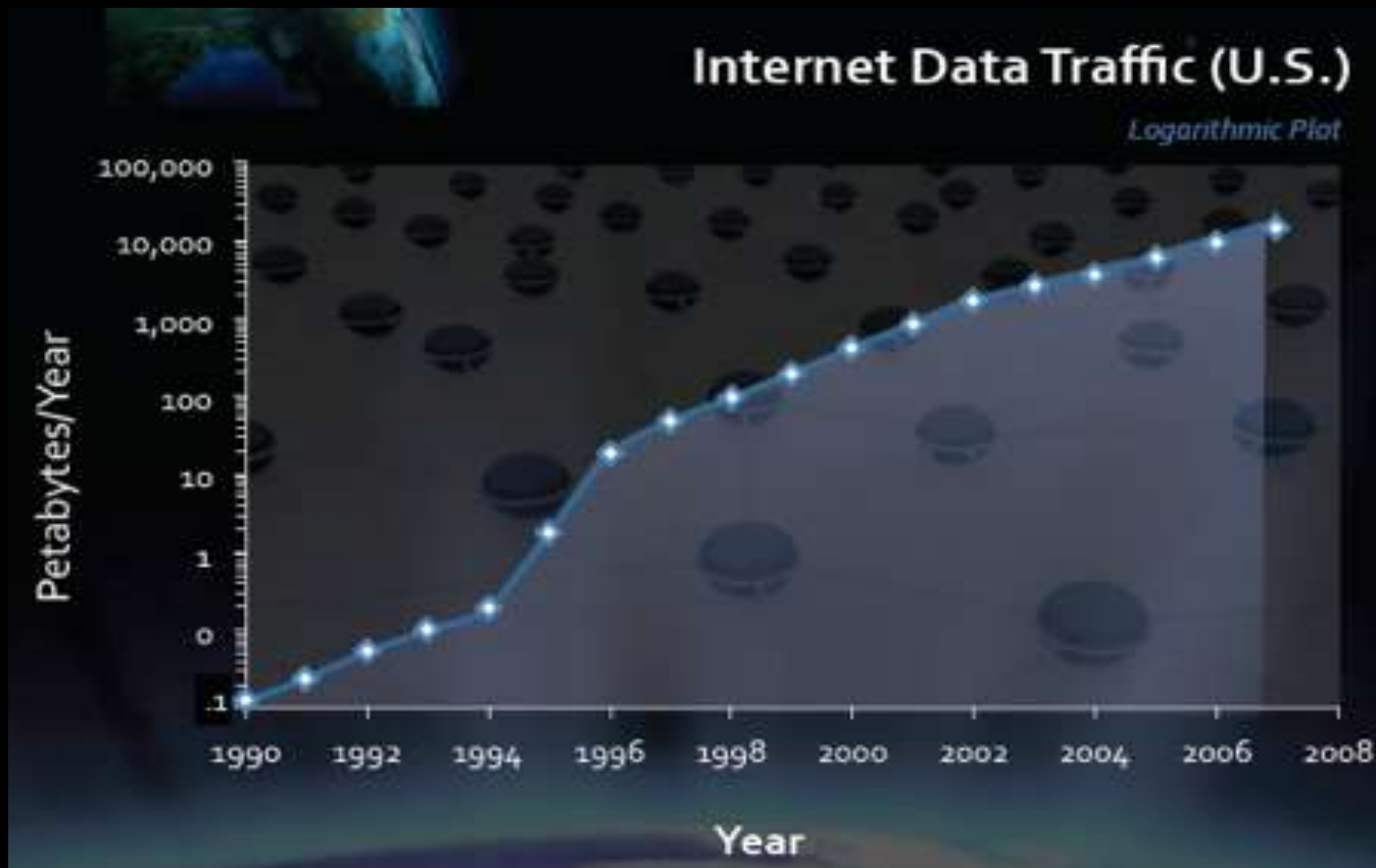


Expectativa de Vida

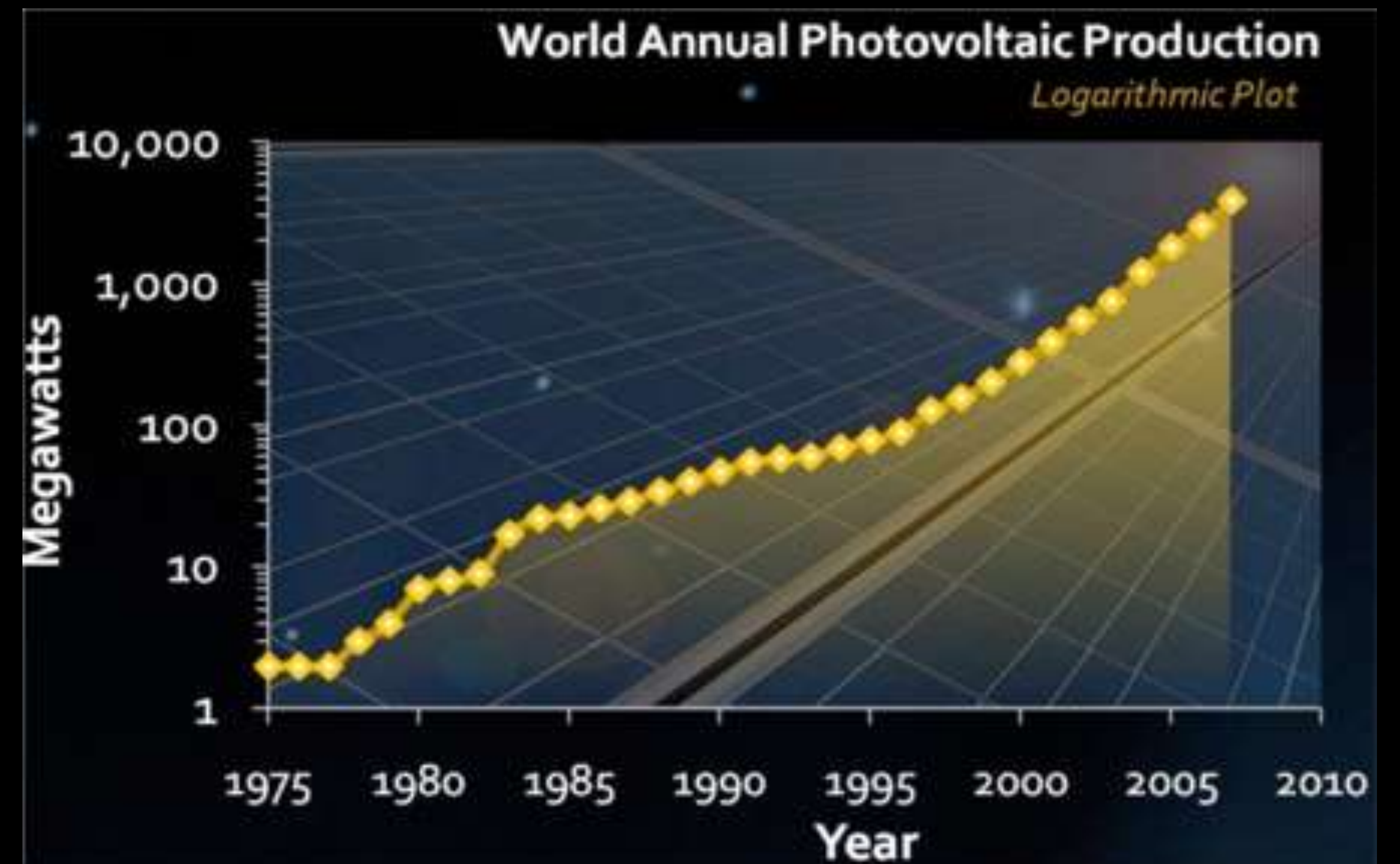


y se verifica en otras áreas

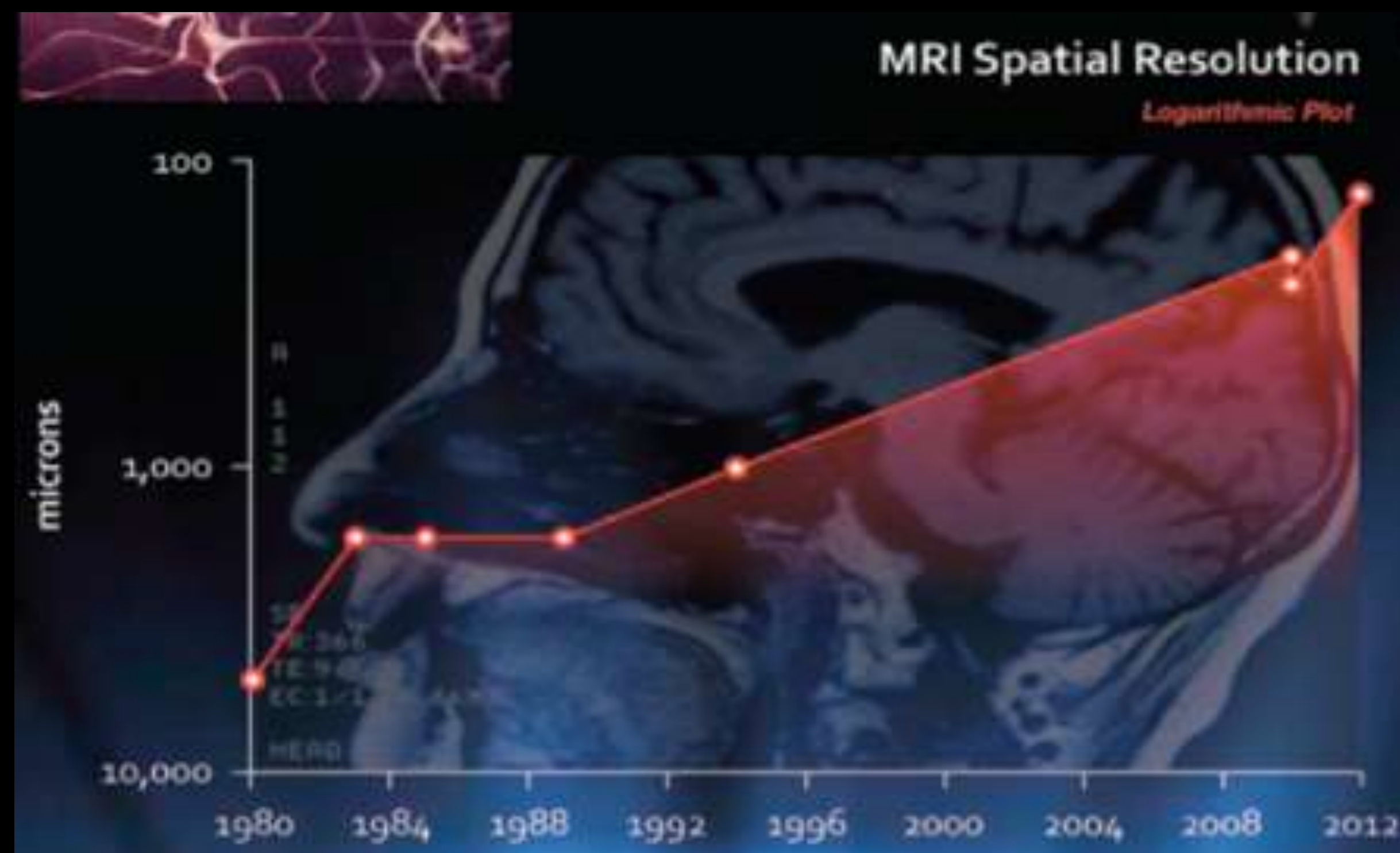
Internet Data Traffic (US)



World Annual Photovoltaic Production



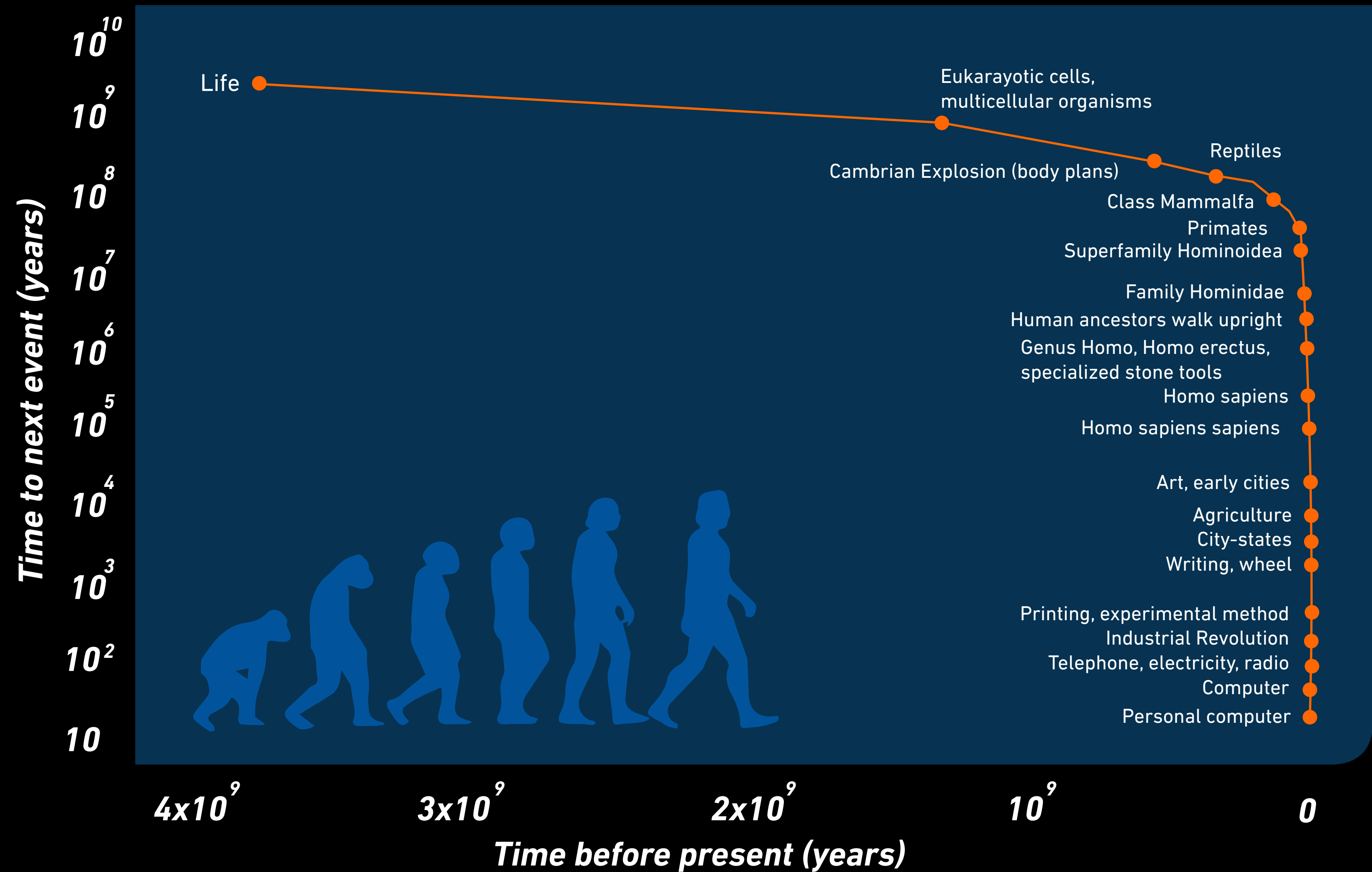
y se verifica en otras áreas



*También en la
evolución de vida
inteligente...*

Countdown to *singularity*

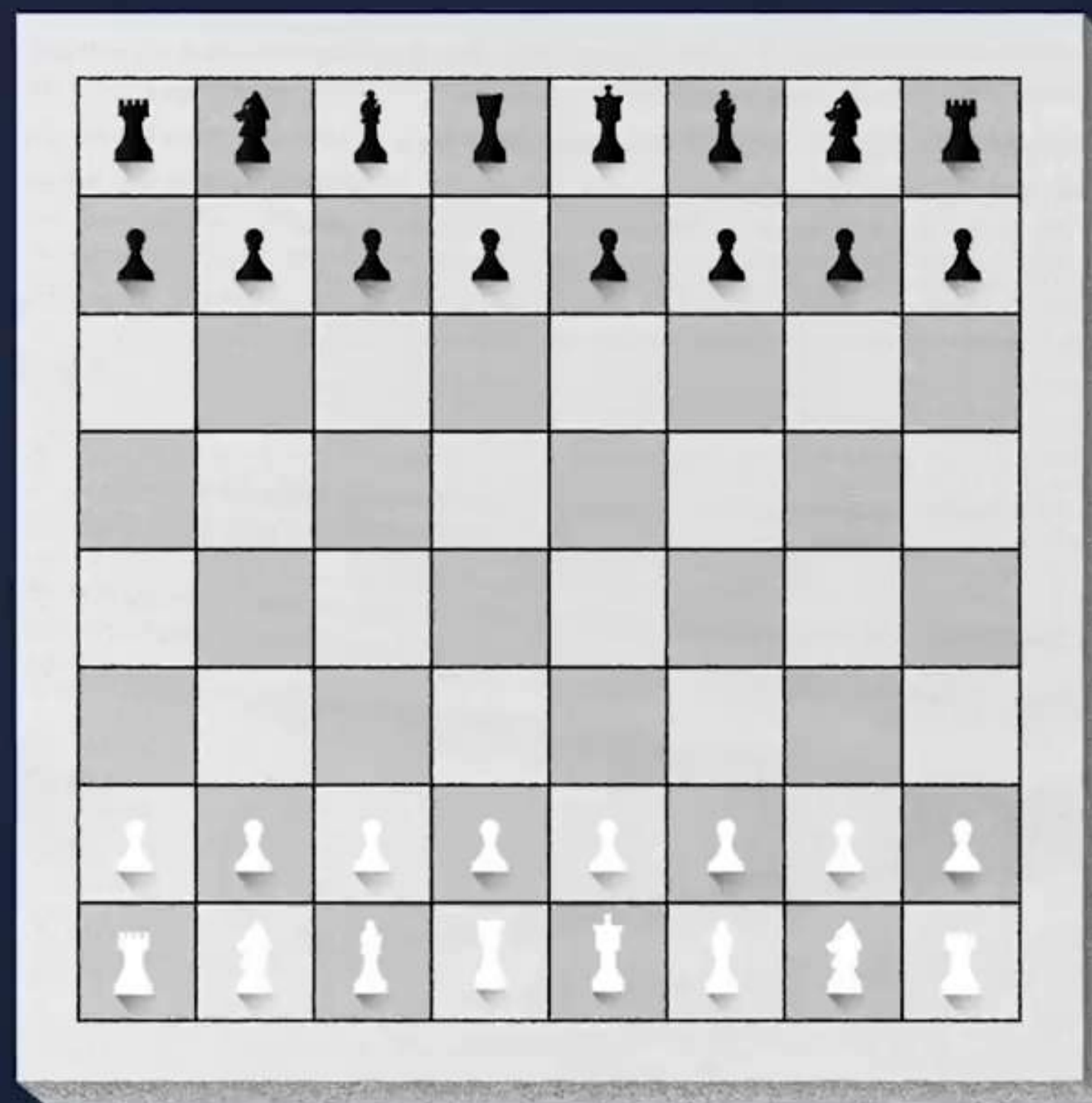
Linear Plot



Hoy: AlphaGo gana 4-1 a Lee Sedol



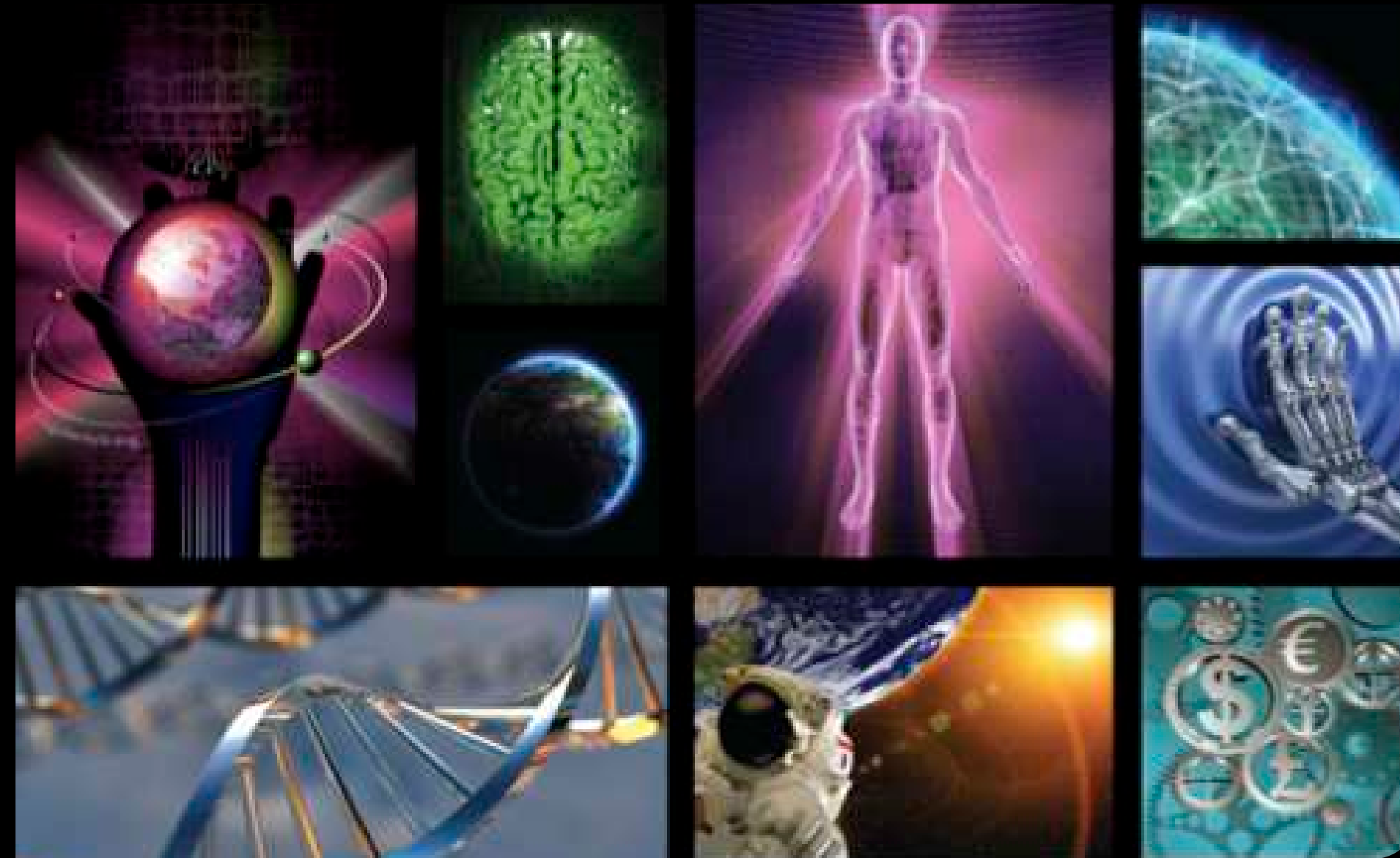
...Reconociendo patrones y no por fuerza bruta!



Para dónde vamos entonces?

El “Takeover” Tecnológico...
TECNOLOGÍAS EXPONENCIALES

Inteligencia Artificial
Robótica
Nanotecnología
Medicina
Neurociencia
Energía
Computación



RUPTURA
Social
Política
Financiera

ABUNDANCIA

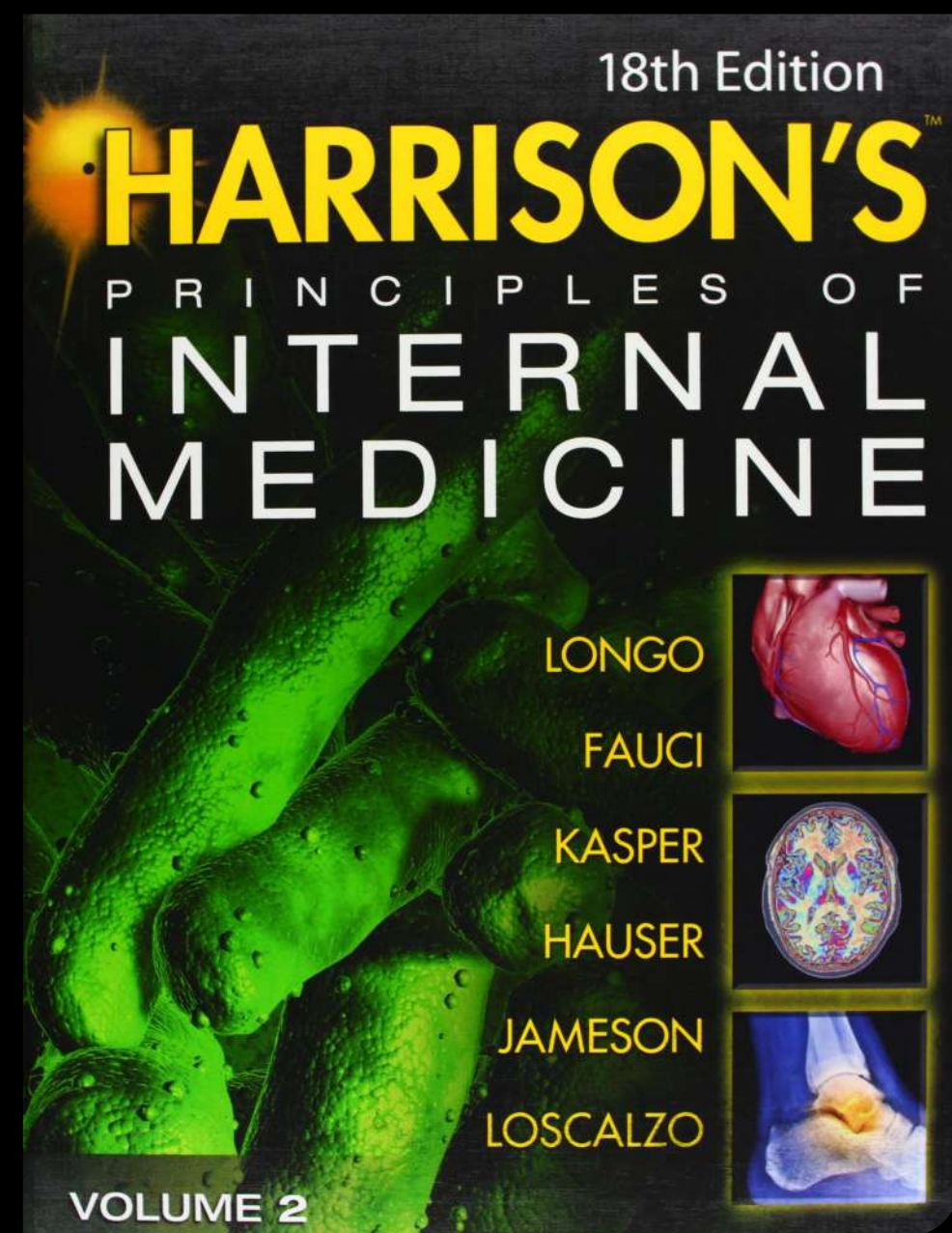
...Produciendo **progreso** en todas las áreas del conocimiento

Noticias recientes...





Abundancia_Salud



+

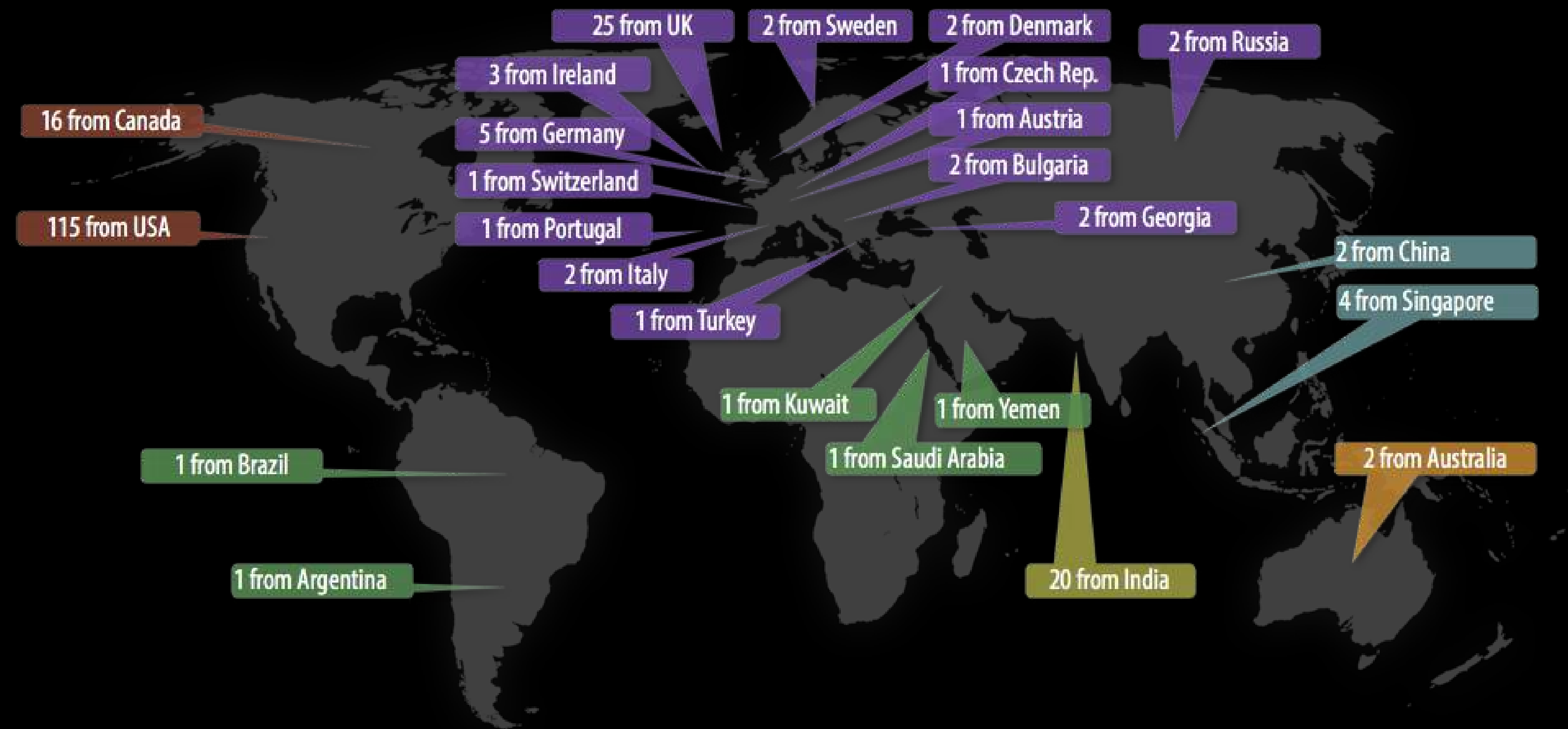


=



QUALCOMM TRICORDER XPRIZE

Distribution





XPRIZE

GET UPDATES

Email Address

GO



QUALCOMM
TRICORDER

XPRIZE®

ABOUT

NEWS

TEAMS



TOP TWO TEAMS ADVANCE TO FINAL ROUND

Winner to be announced in Q2, 2017.

LEARN MORE >



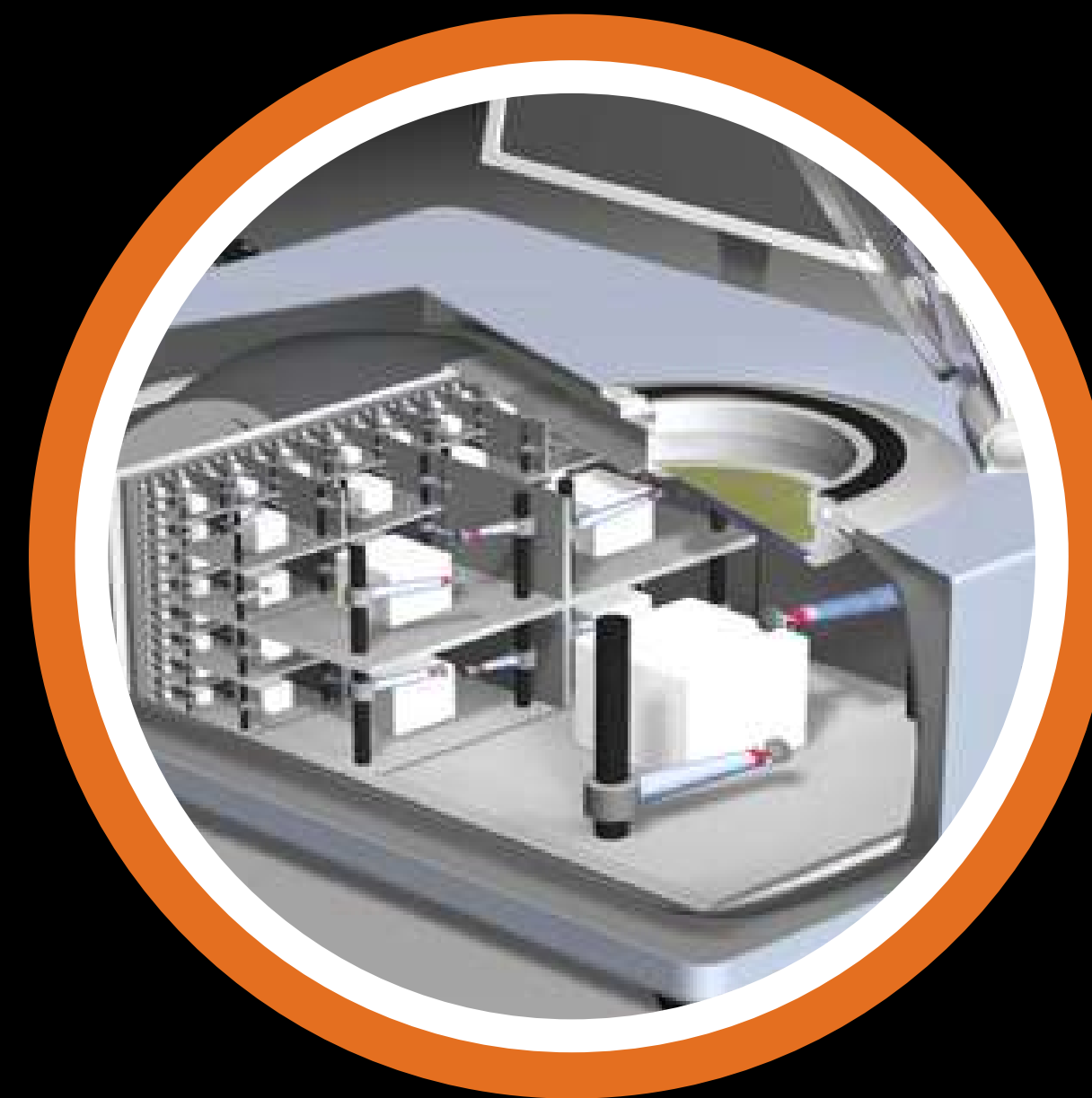
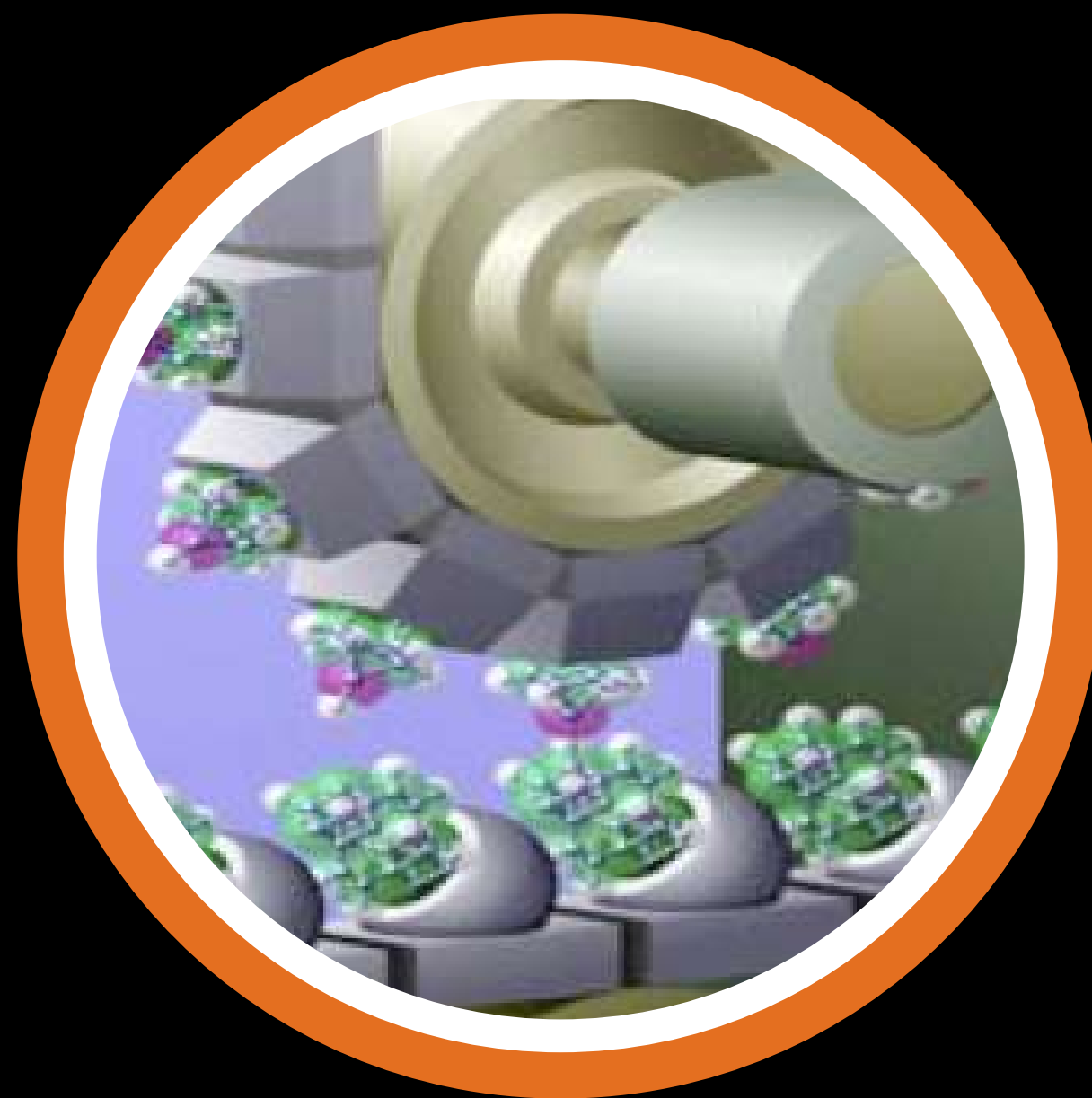
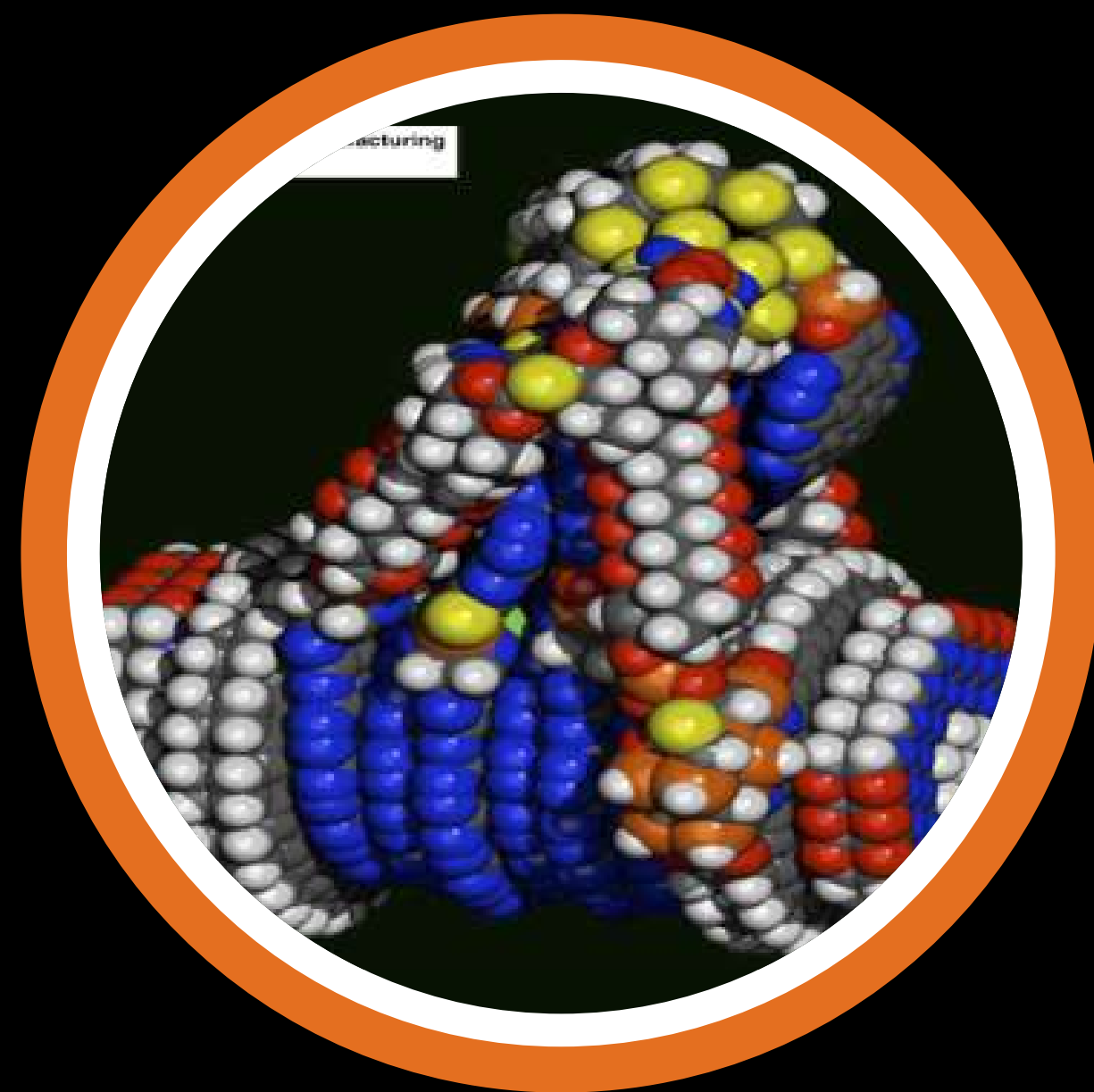
CONGRATULATIONS TO OUR WINNERS!

Final Frontier Medical Devices' DxtER
dubbed first "real-life" Tricorder
prototype

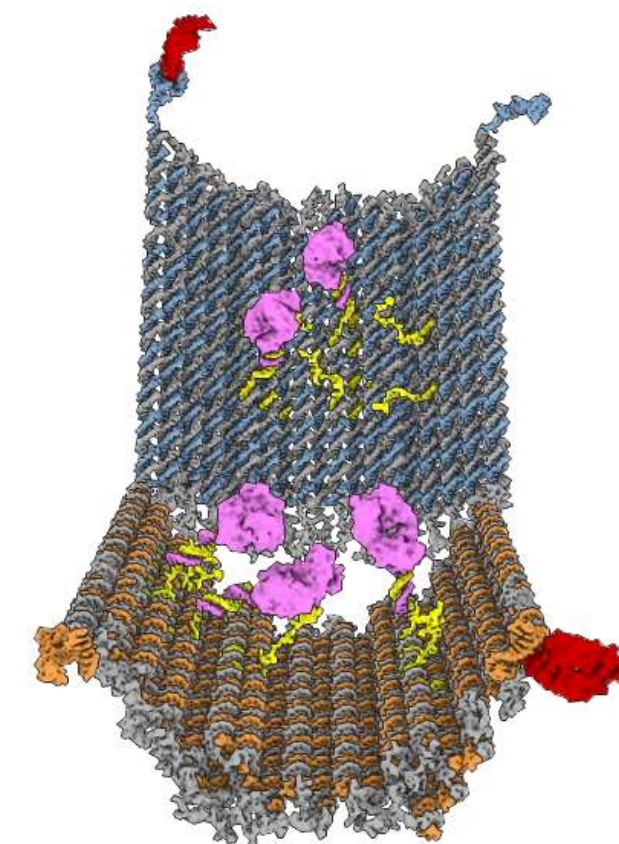
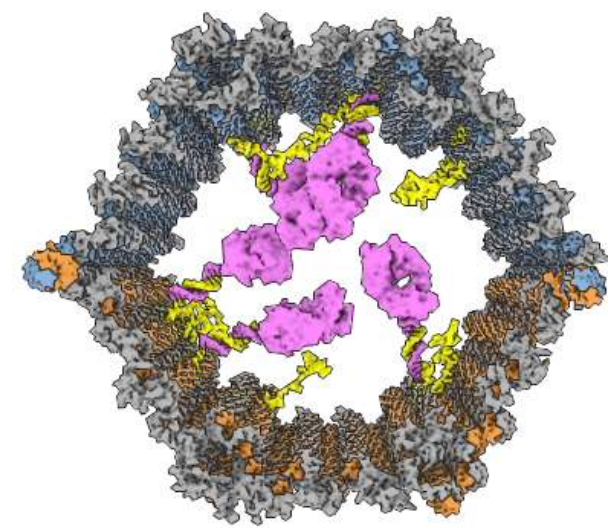
[LEARN MORE >](#)



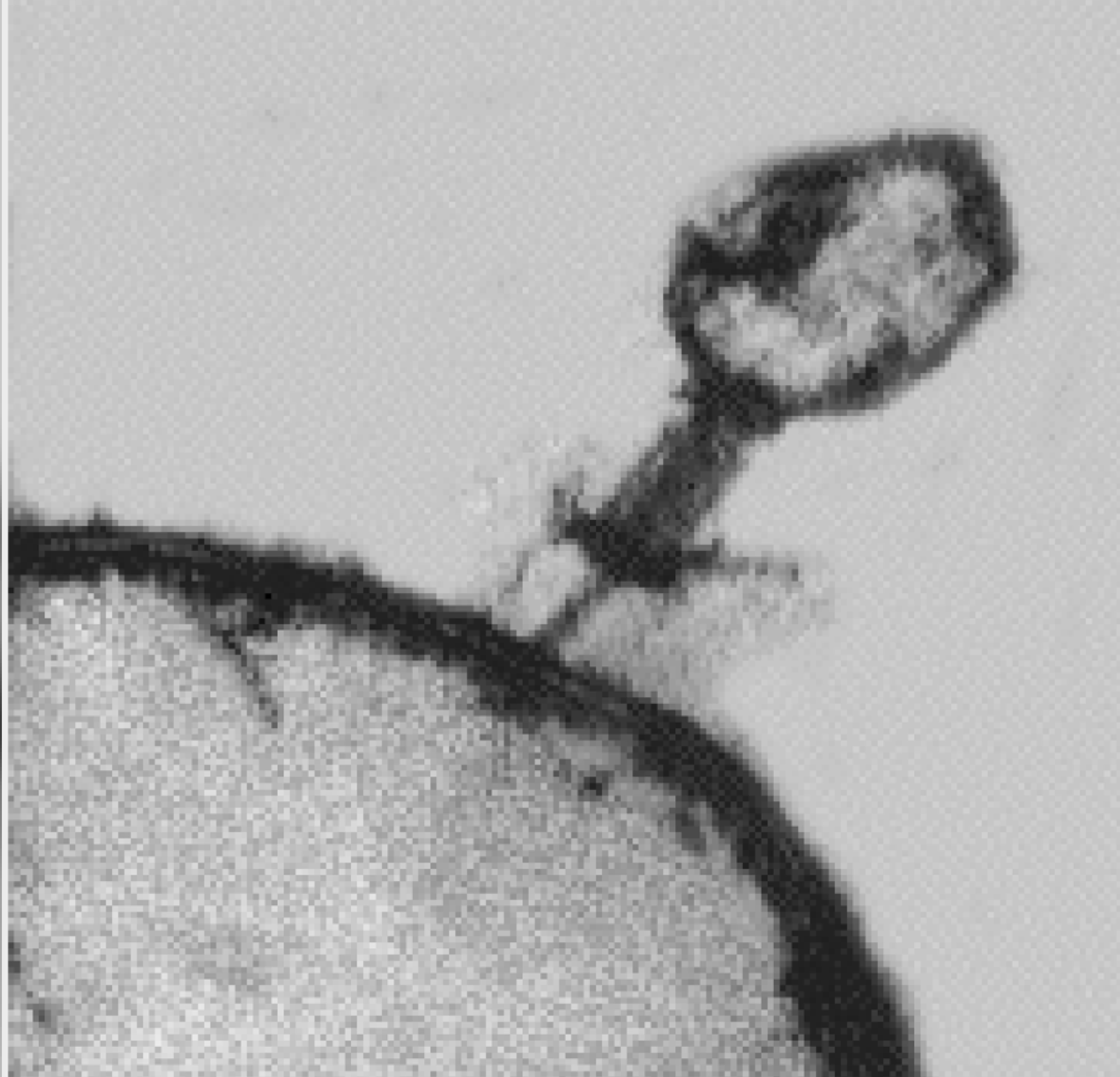
Nanotecnología

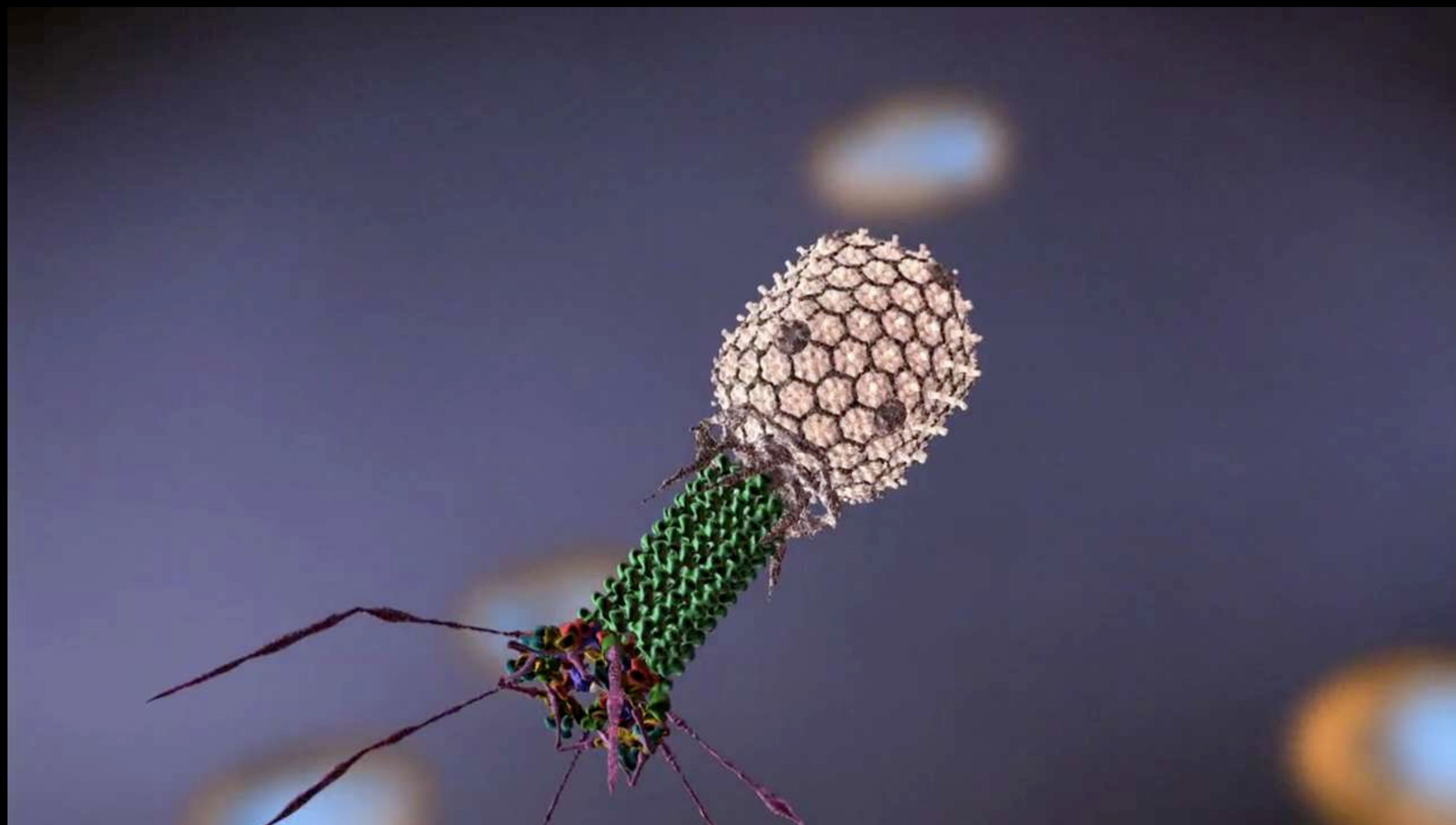


Virología_Sintética



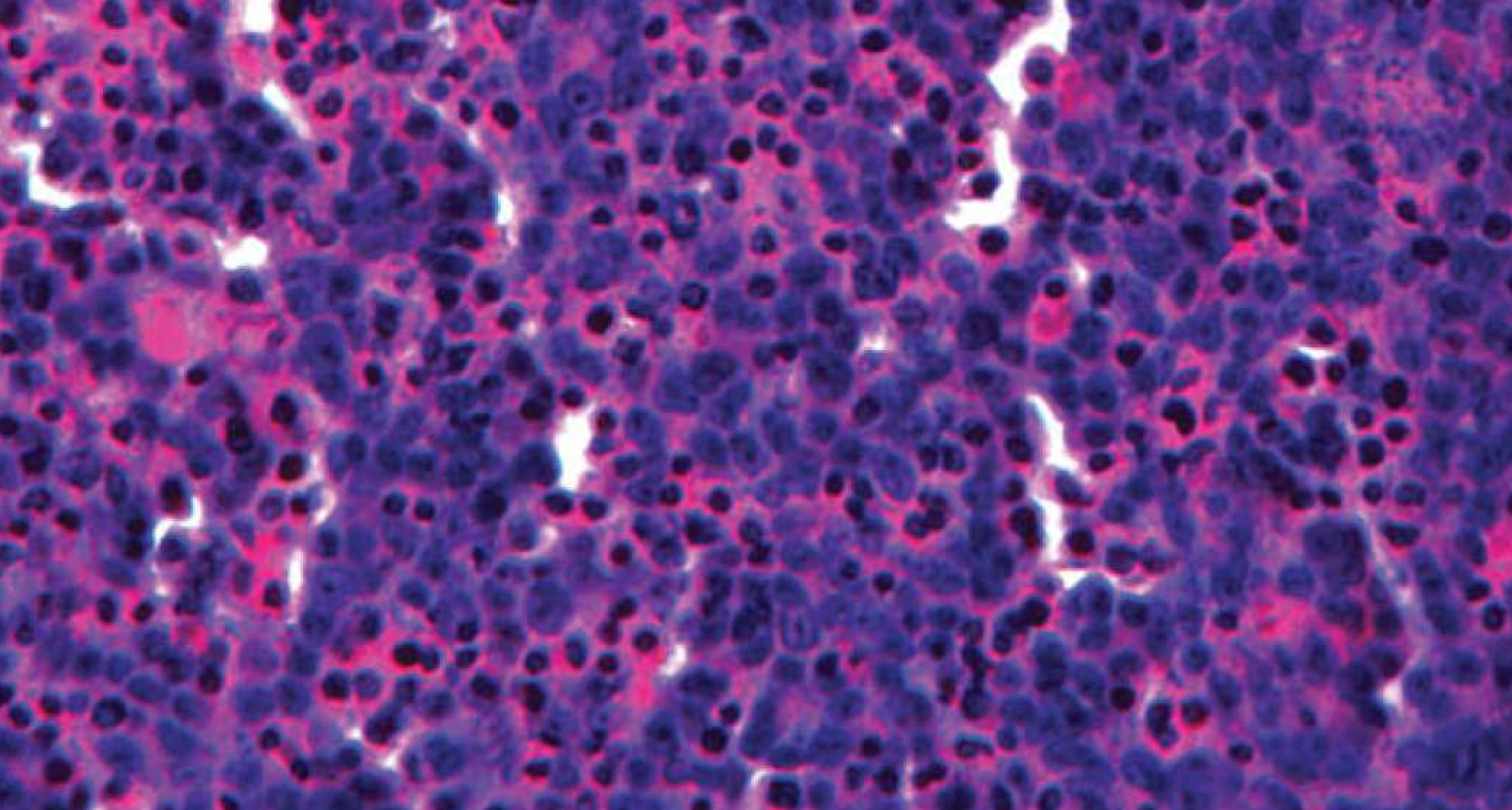
Shawn M. Douglas, Ido Bachelet,
George M. Church, A Logic-Gated
Nanorobot for Targeted Transport of
Molecular Pavloads, Science 2012

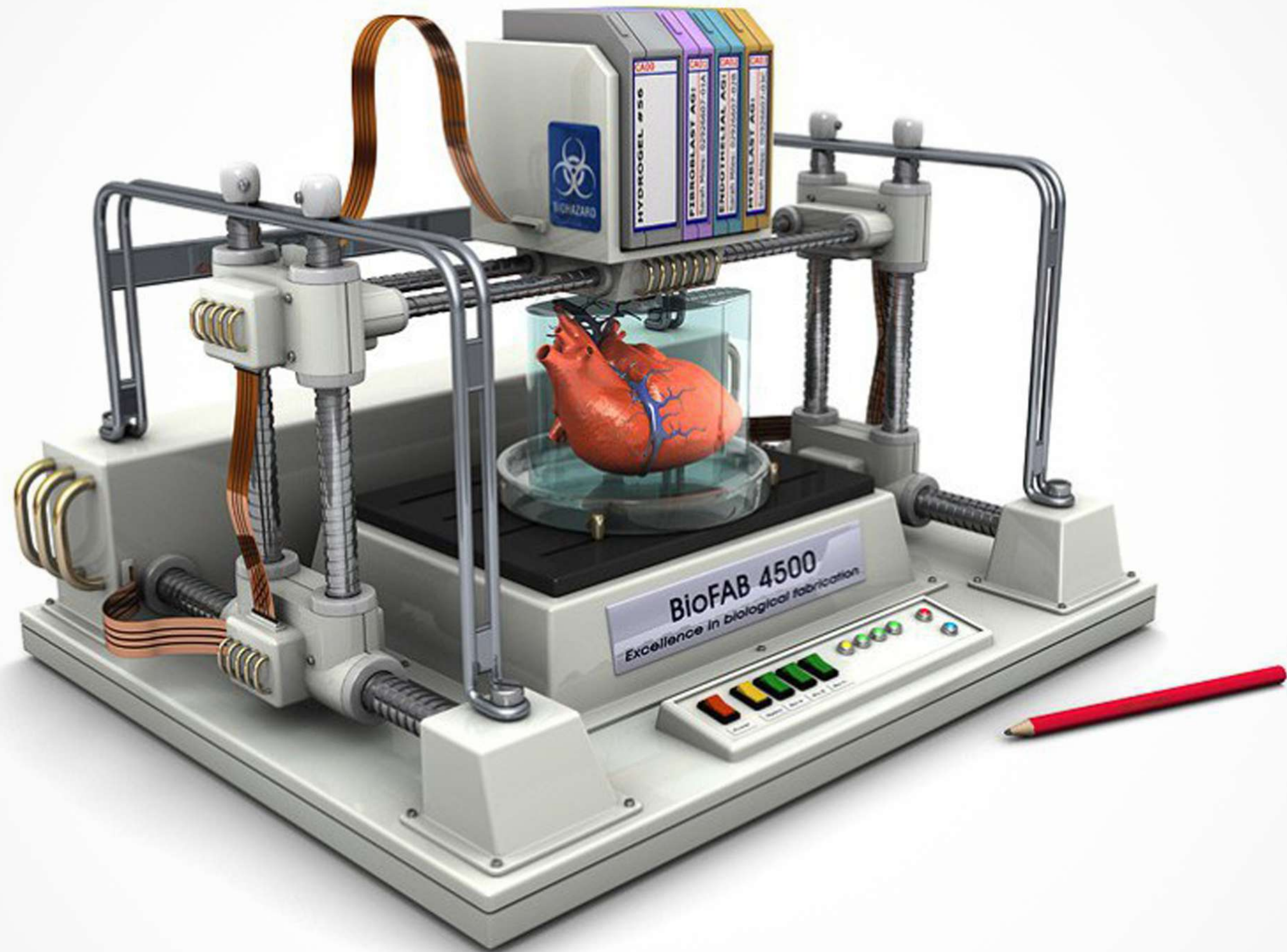


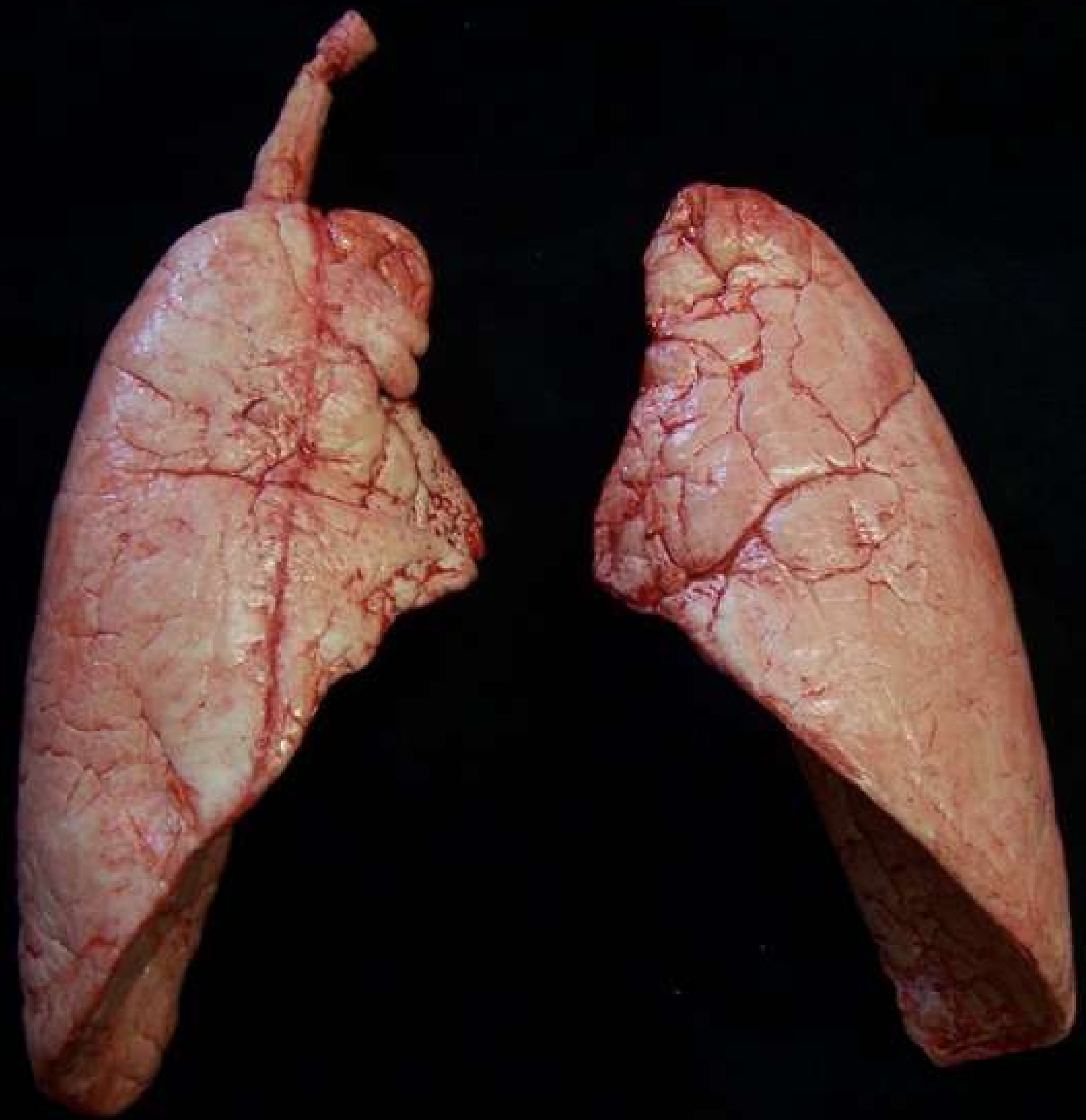












no-vivo

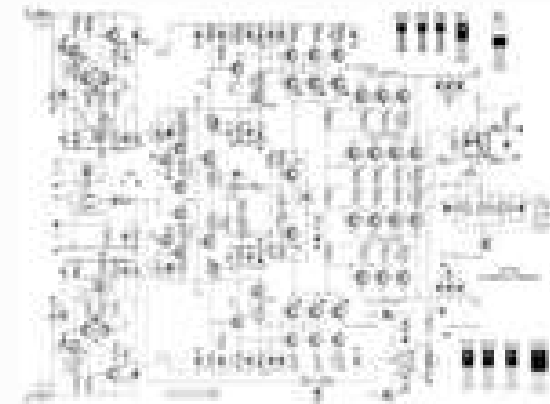
011101001010100101010110101010101001010101010101111101010100001010101010010101001010010010101010100101010100101010100110101

micro

partes



circuitos



procesadores

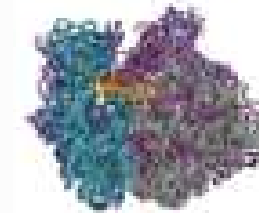


redes



redes de
redes

macro



vivo

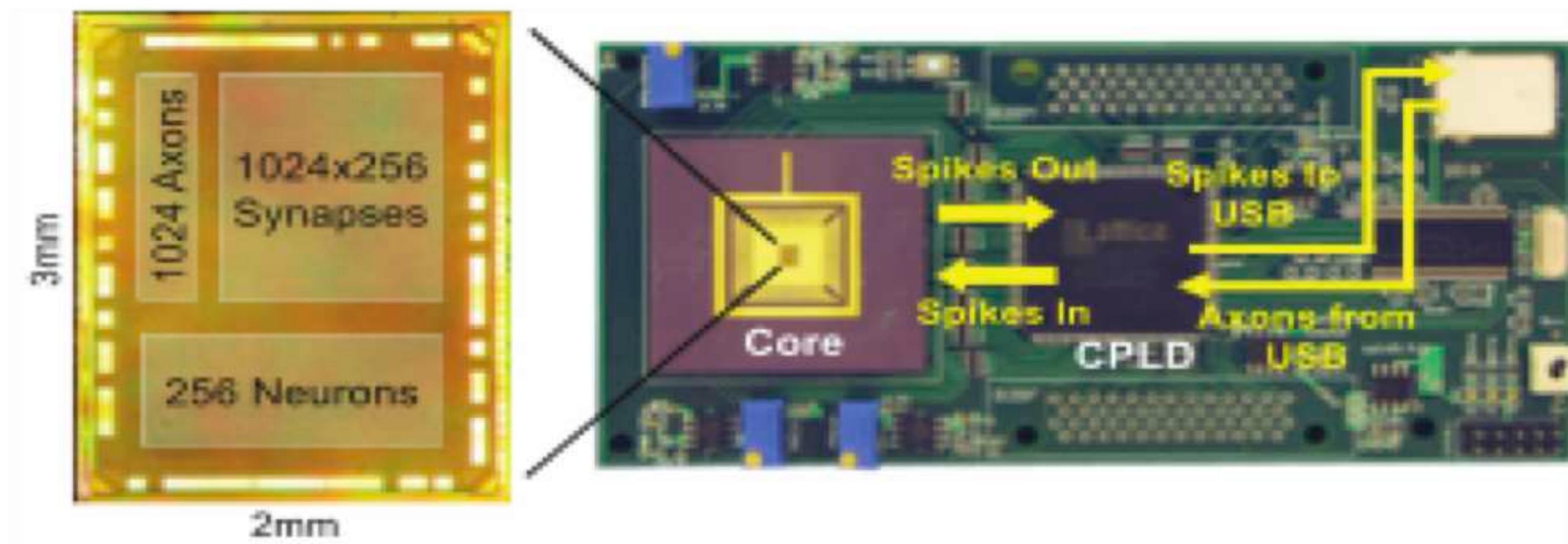
atgttgatgcgctagcacgtcctagtcagcagtcacgatctctatatcgacagcatgcgccgatctacaattacgtcatctcgtcgagctctcgccctattttgctgggaggctatcatatctaggtcatgctagcagtaaagcatacagta



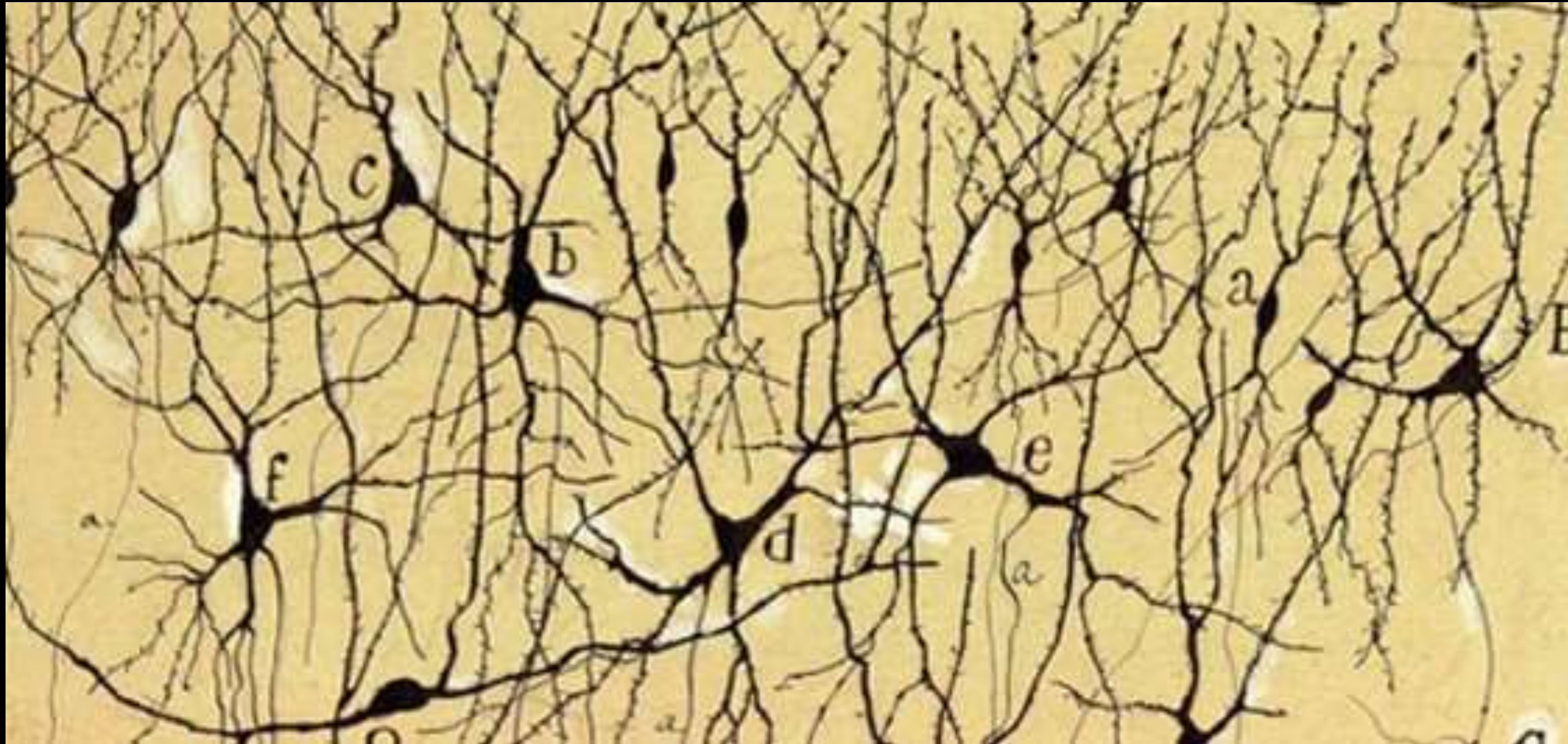
Abundancia_Información, IA, Robots

*_1.37x10
sinápsis*

*_530 billones
de neuronas*



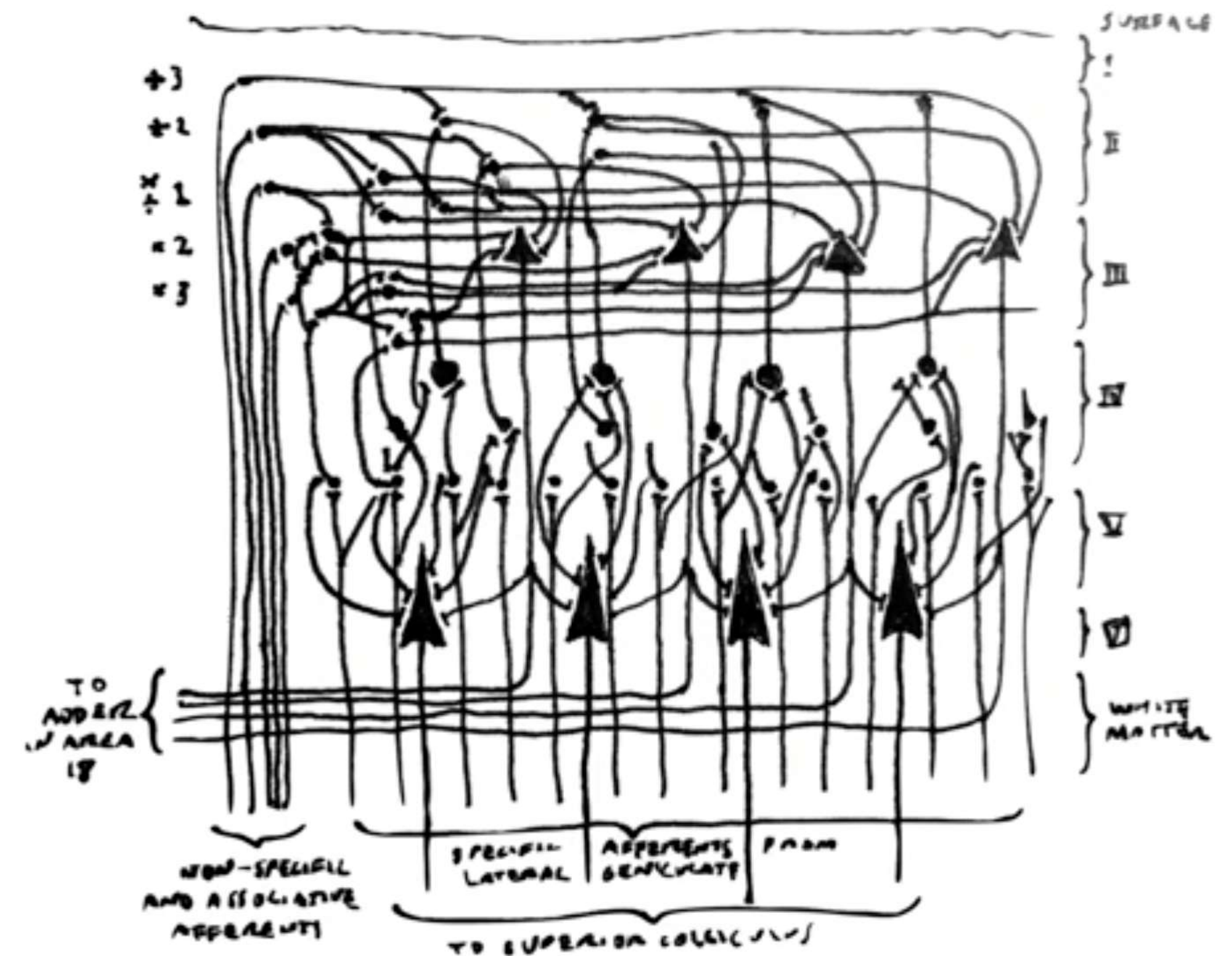
Santiago Ramón y Cajal, 1852-1934





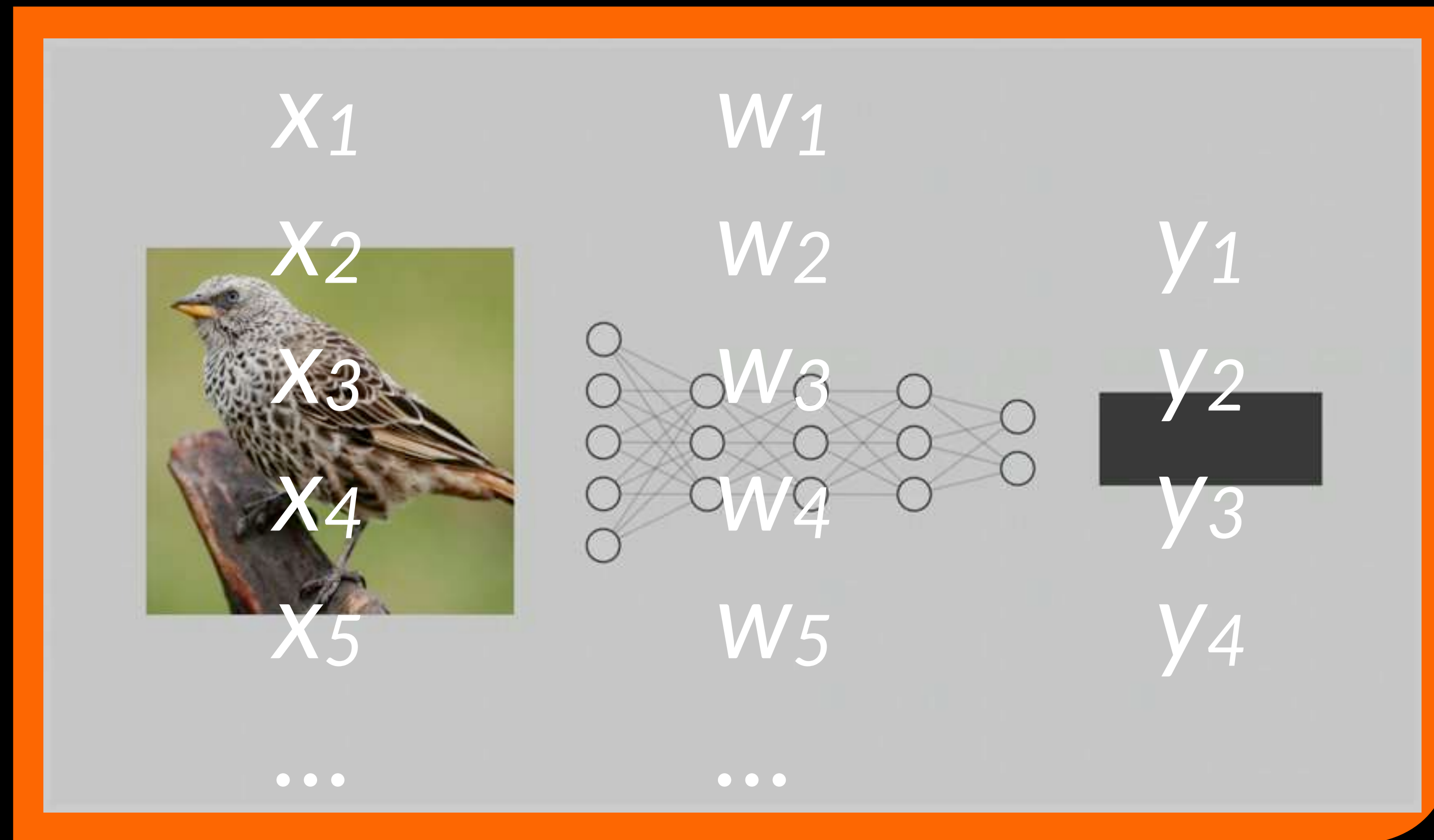


Ramón y Cajal, 1900



McCulloch & Pitts, 1947

Percepción



Percepción

X “x” W = Y

Percepción

X “ x ” $\neq Y$

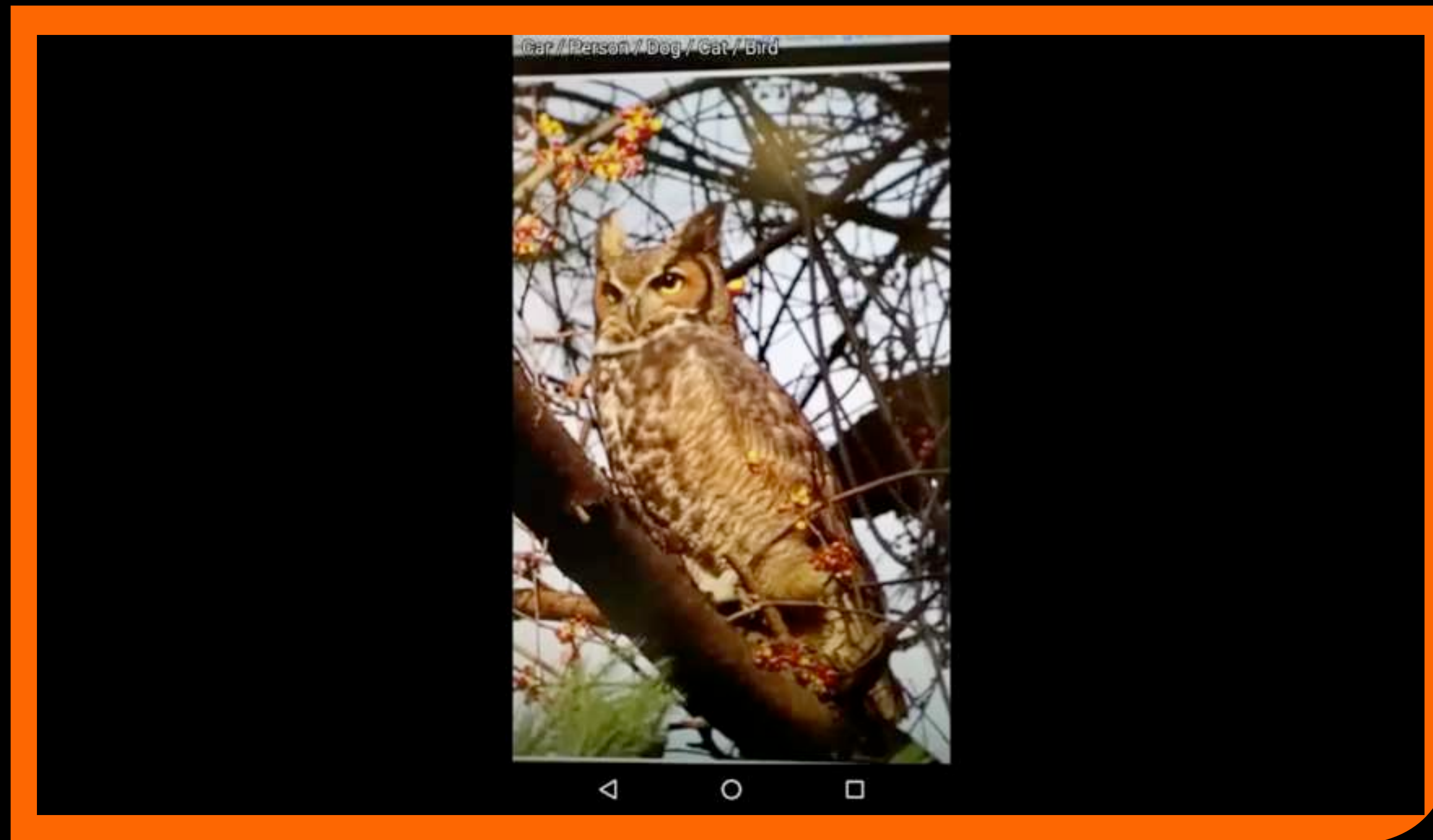
Percepción

$O = X \text{ “x” } W - Y$

Percepción

$$\text{Error} = |X \text{ “x” } W - Y|$$

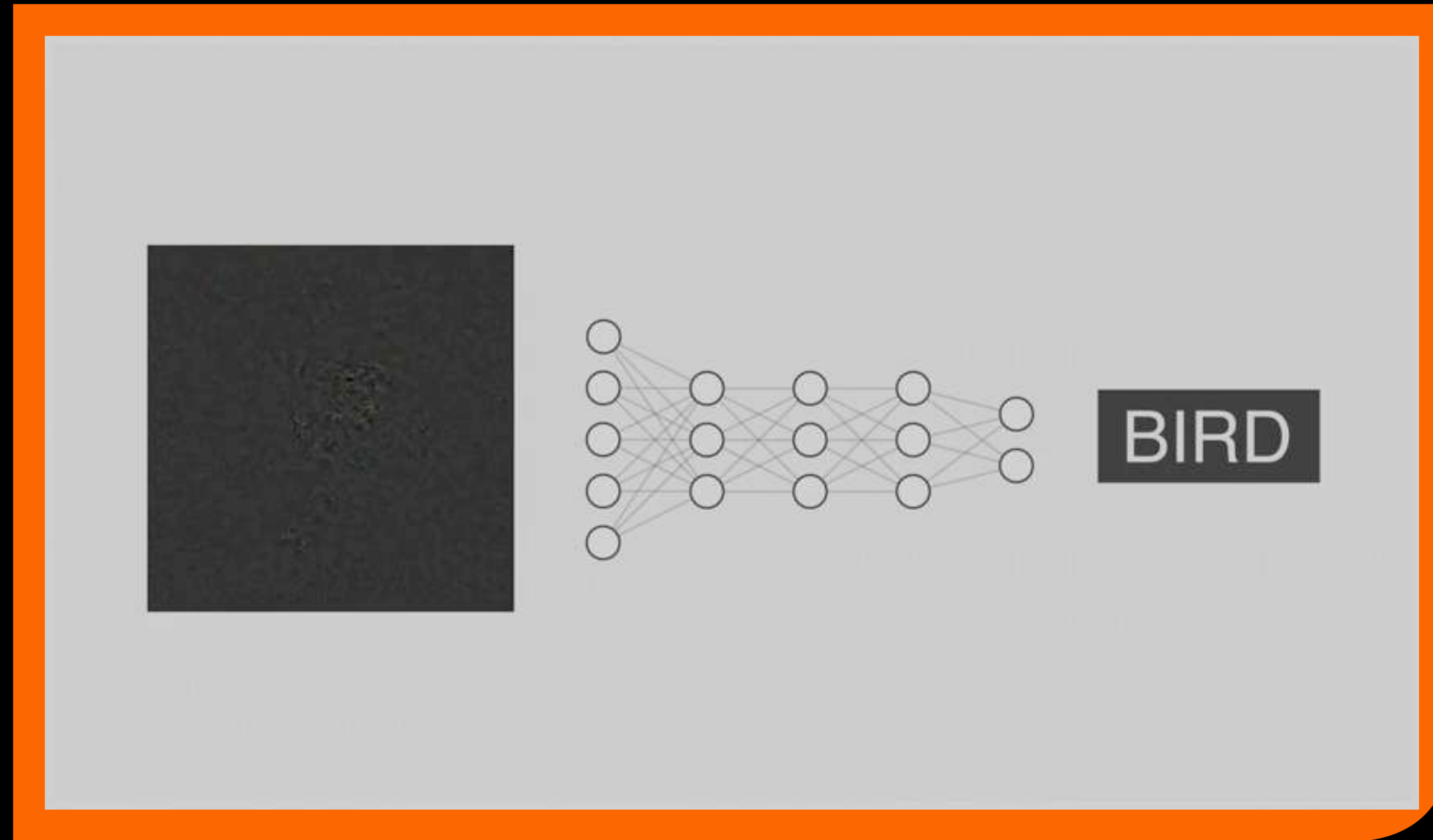
El proceso de aprendizaje... ¿suena conocido?



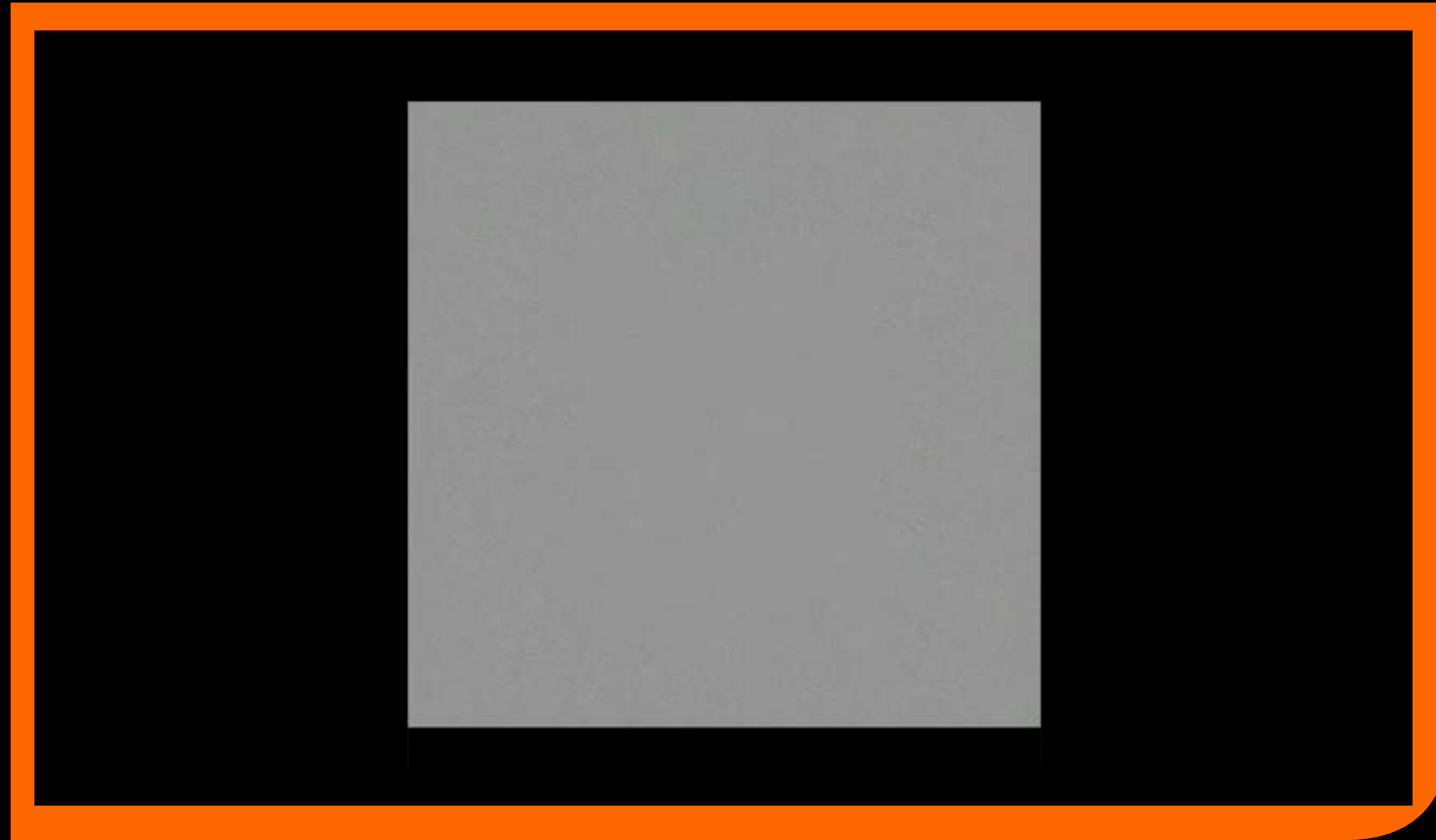
Creatividad Artificial (AC)

? “X” $W=Y$

Creatividad Artificial (AC)



Creatividad Artificial (AC)



AC: Asociación Libre



¿Qué significa todo esto?

SIXTY+ME

START ▾ NEWS GAMES QUIZZES HEALTH ▾ TRAVEL ▾ MONEY ▾ LIFE ▾ MINDSET ▾



60 CREATIVE WAYS TO MAKE MONEY IN RETIREMENT

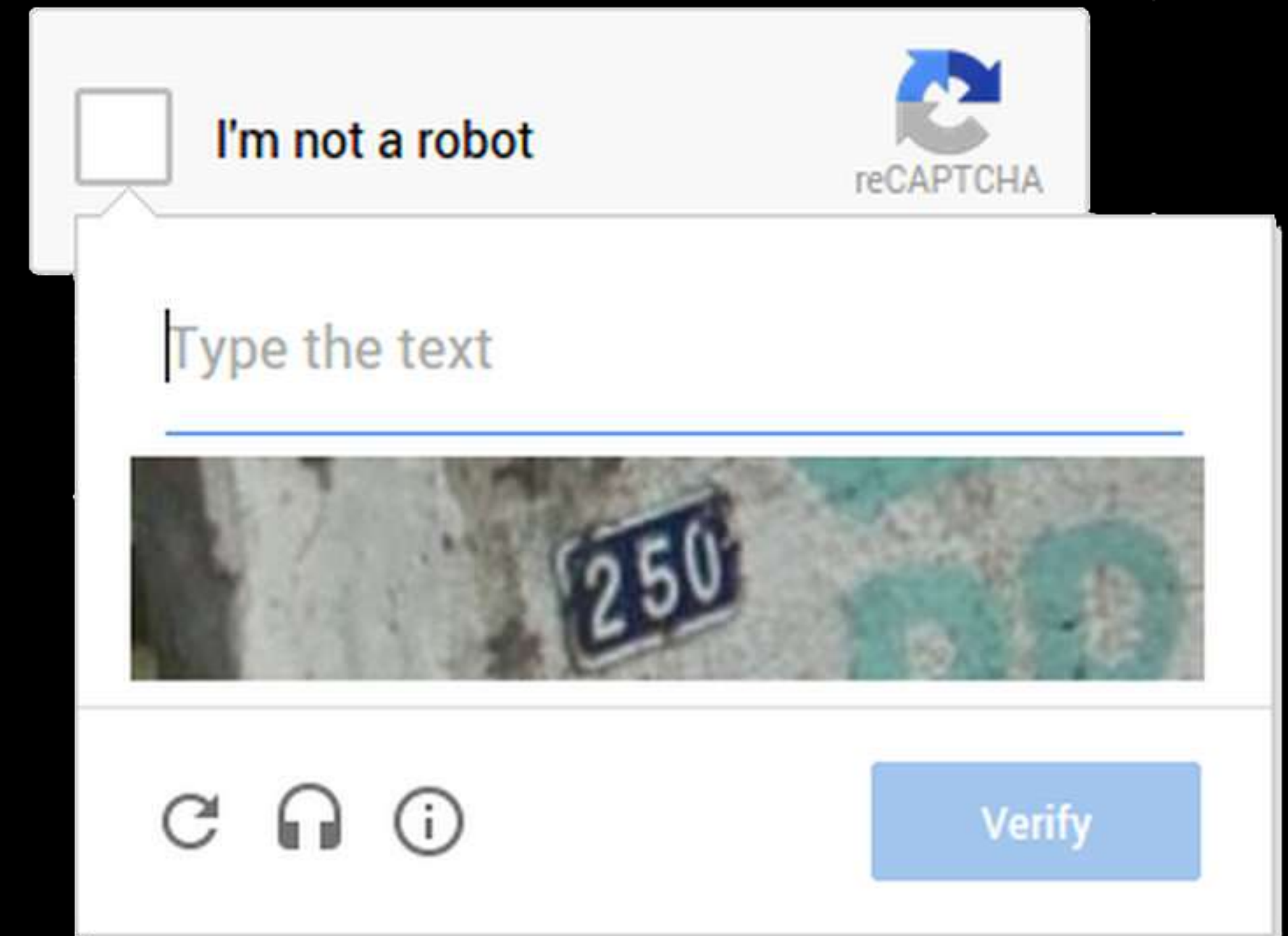
BY MARGARET MANNING • 2 YEARS AGO • MAKING MONEY

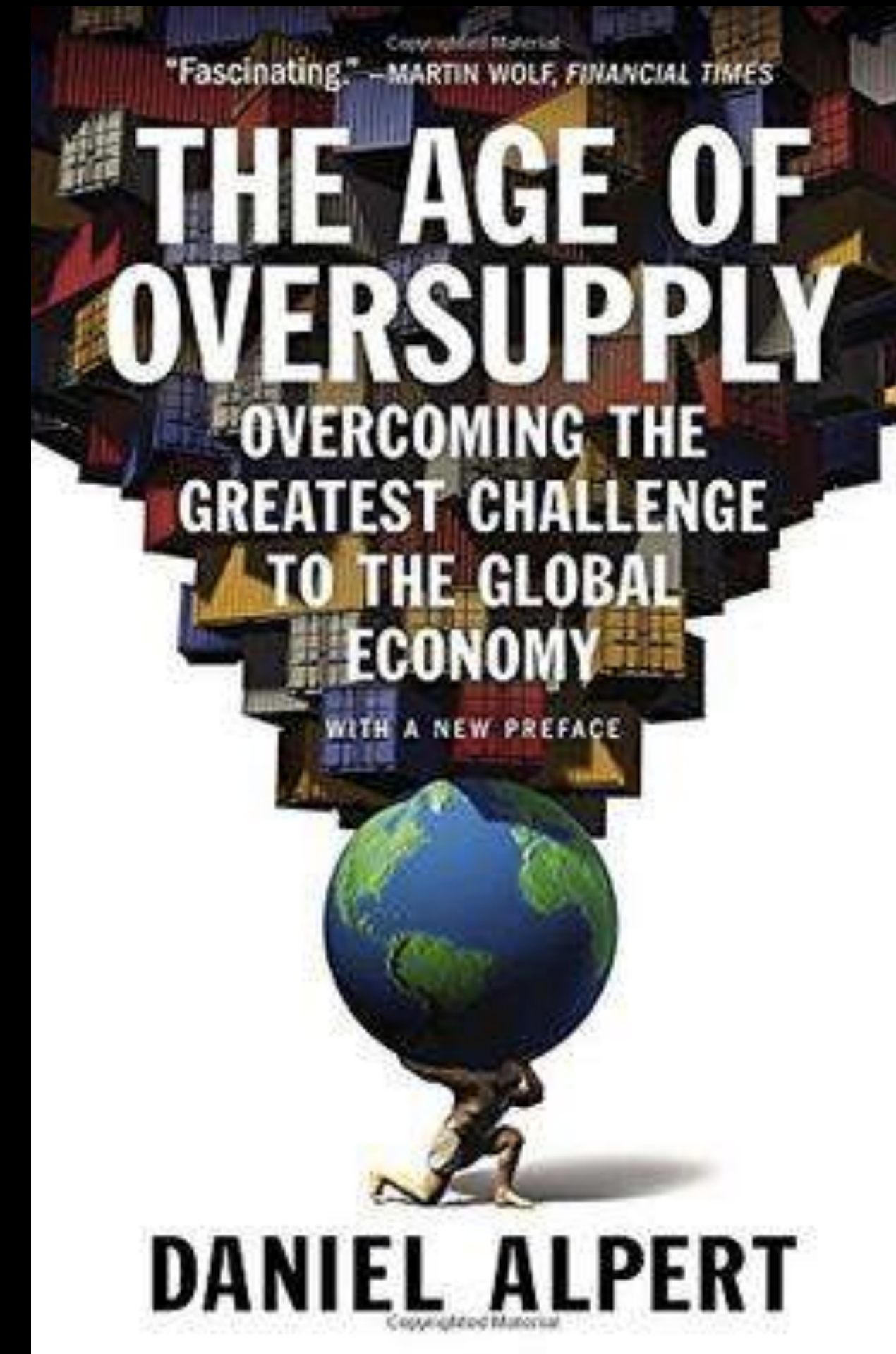
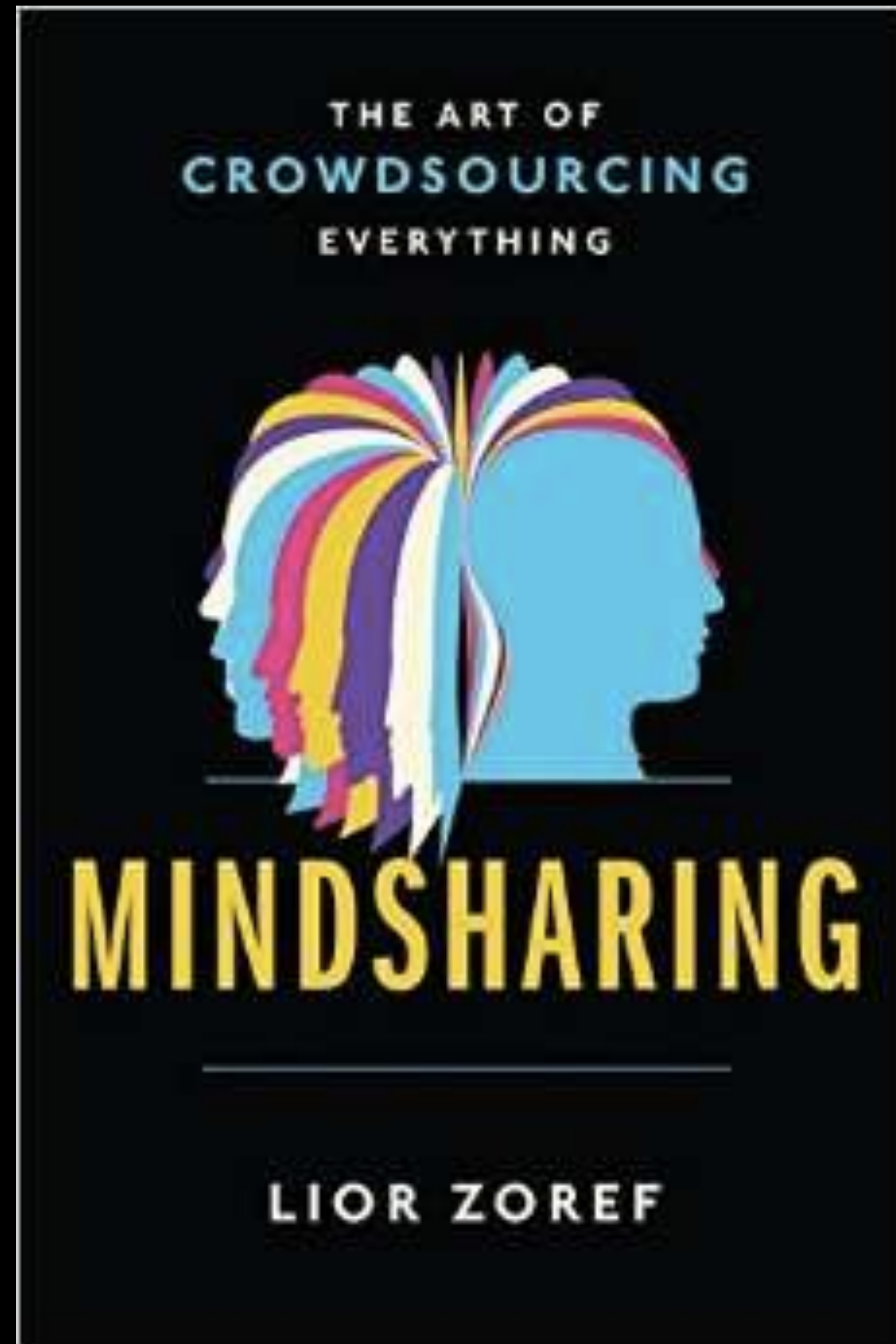
Abundancia_El CROWD



280MM de reCAPTCHAS al día, que equivalen a

233,332 HH's dedicadas a digitalizar el mundo CADA día







Crowdfunding

Financial contributions from online investors, sponsors or donors to fund for-profit or non-profit initiatives or enterprises.



Collective Knowledge

Development of knowledge assets or information resources from a distributed pool of contributors.



Tools

Applications, platforms and tools that support collaboration, communication and sharing among distributed groups of people.



Collective Creativity

Tapping of creative talent pools to design and develop original art, media or content.



Cloud Labor

Leveraging of a distributed virtual labor pool, available on-demand to fulfill a range of tasks from simple to complex.



Community Building

Development of communities through active engagement of individuals who share common passions, beliefs or interests.



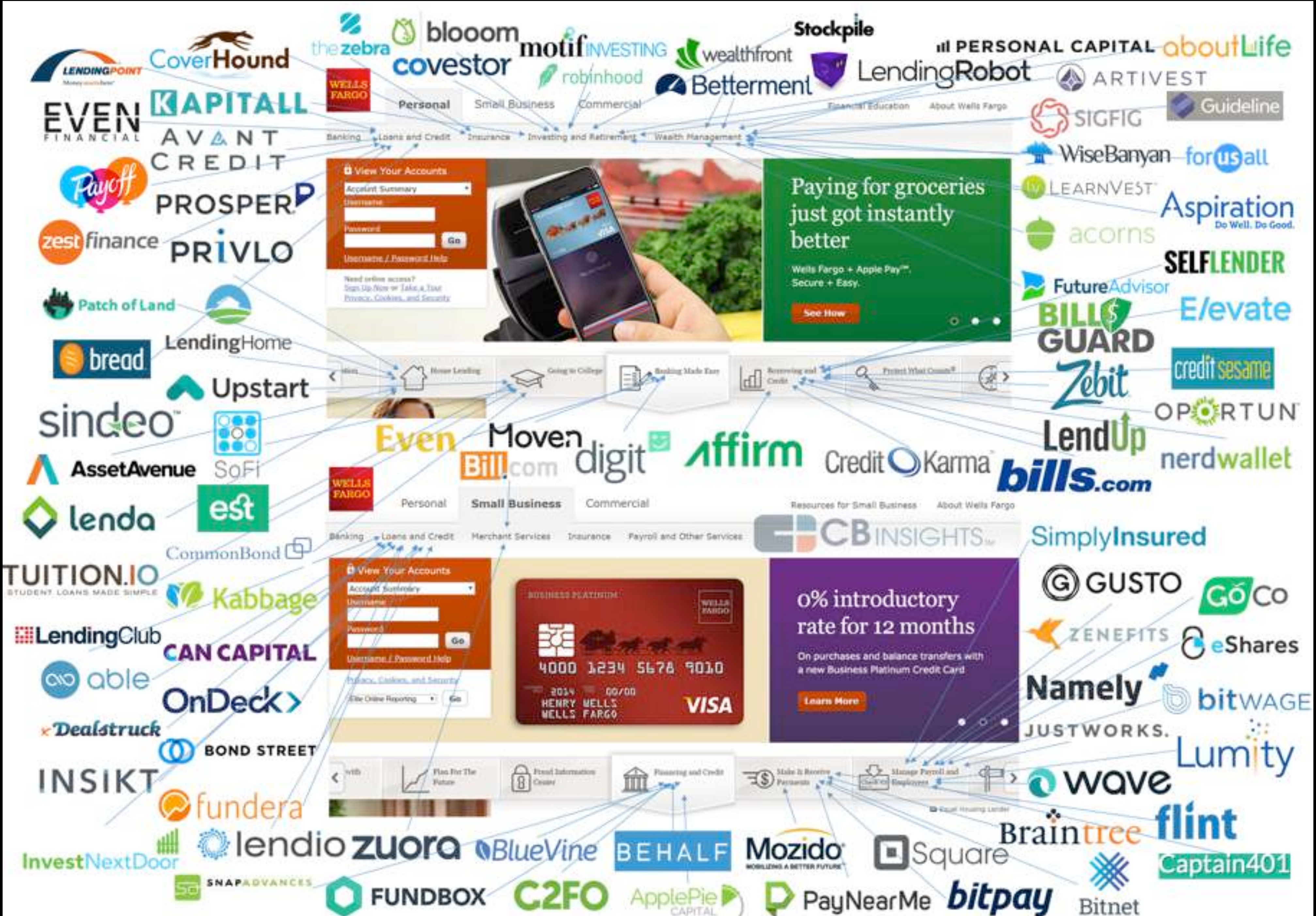
Civic Engagement

Collective actions that address issues of public concern.



Open Innovation

Use of sources outside of the entity or group to generate, develop and implement ideas.



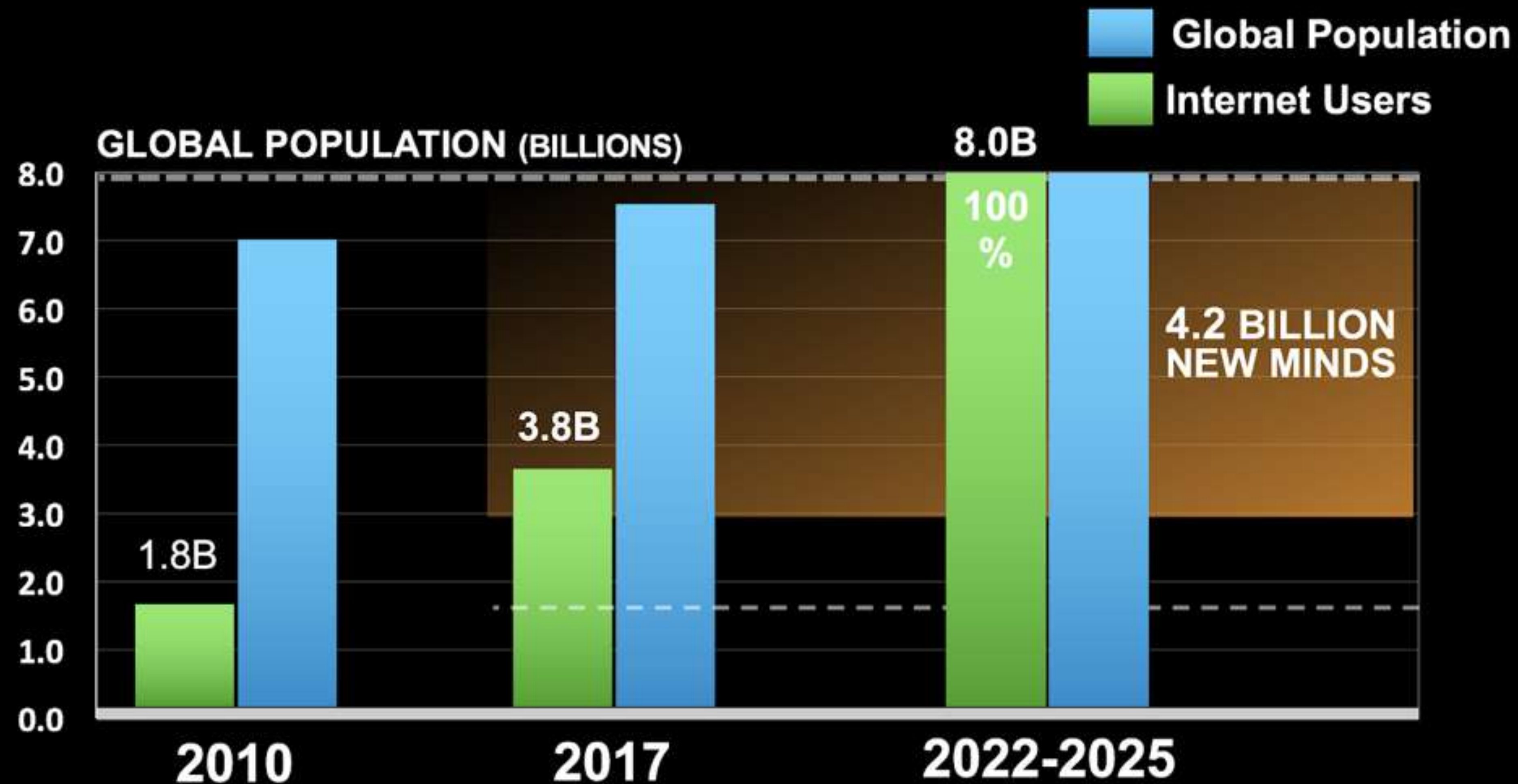
Colaboración v/s Coordinación



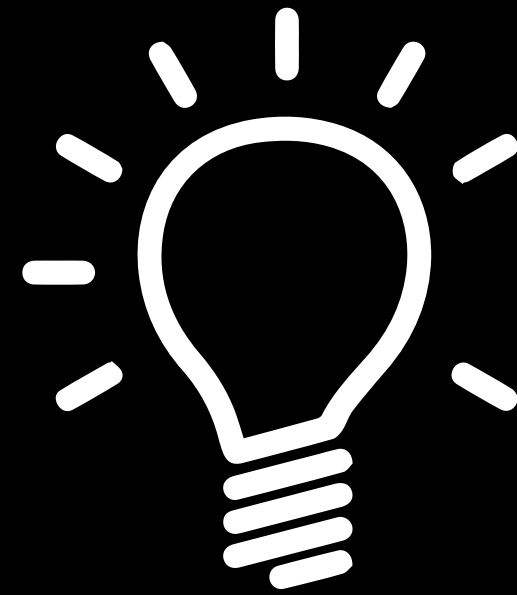
Colaboración v/s Coordinación



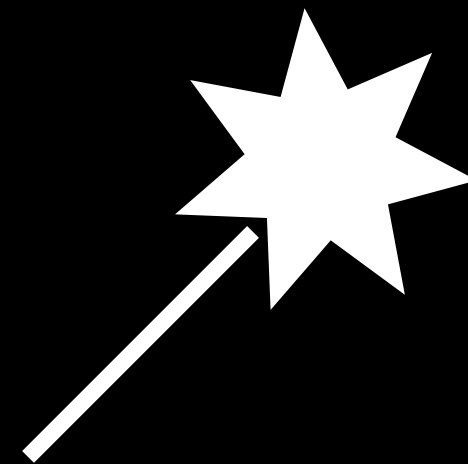
Reflexión Final_Los nuevos billones



4.2 billones de nuevas mentes van a_



Crear



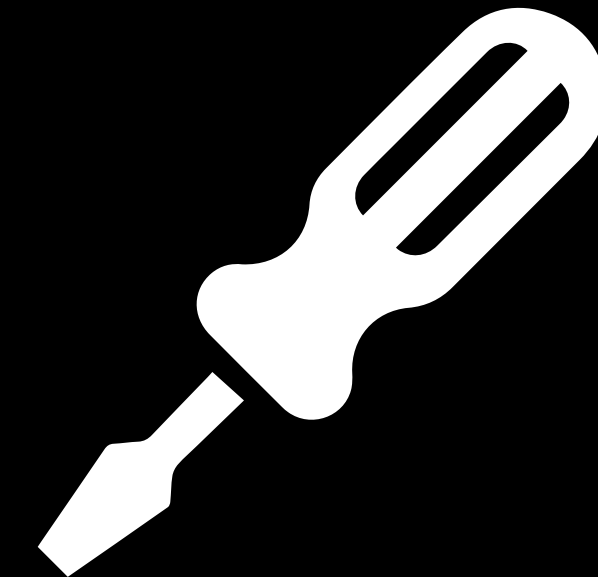
Desear



Consumir

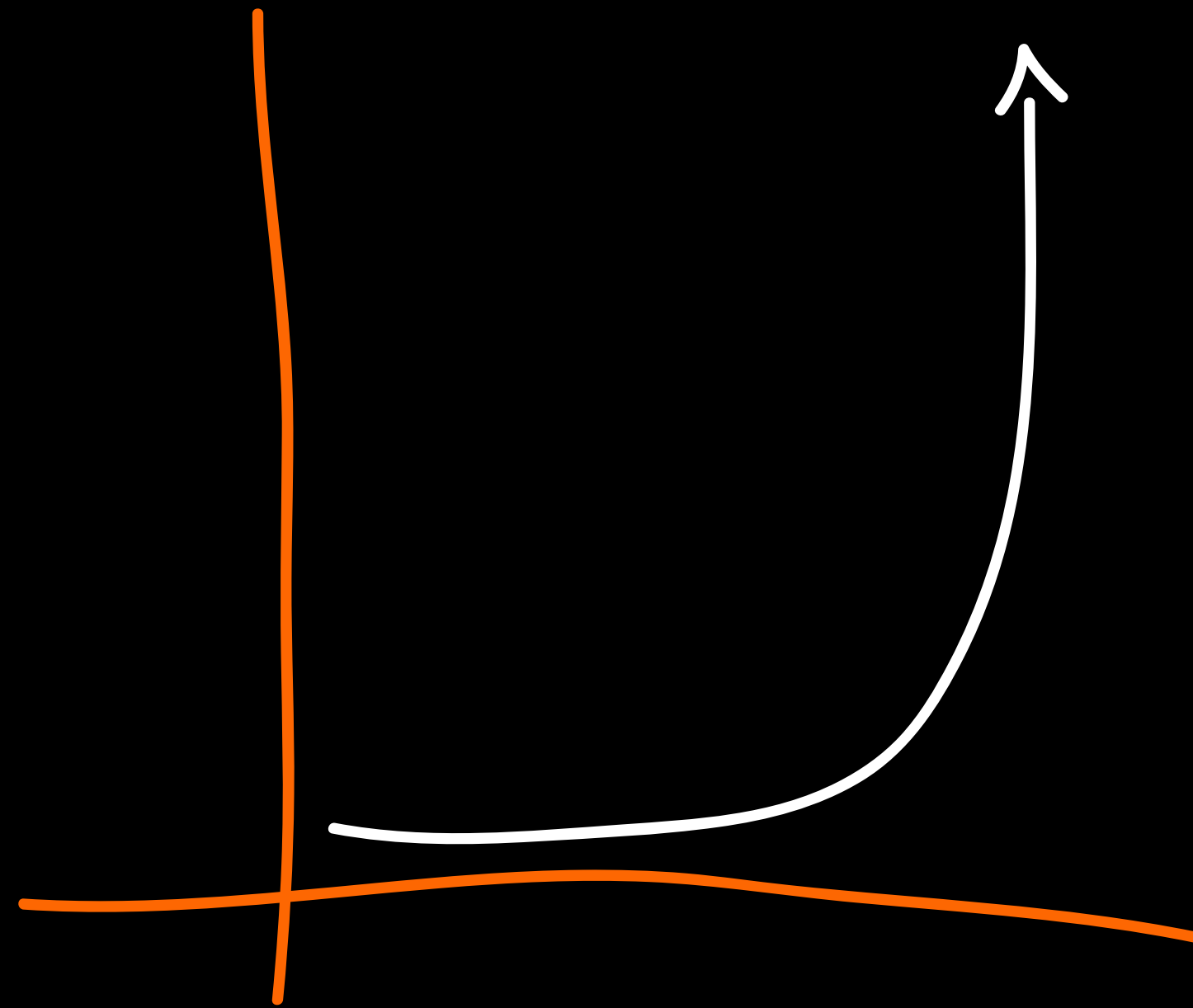


Descubrir



Inventar

El mejor período para la Innovación... ¡hasta ahora!



Cuando vean esta curva_

MUCHAS GRACIAS

GABRIEL@GUROVICH.COM

TRAVESTA
100