

UNIVERSIDAD
NACIONAL
DE COLOMBIA

**Cátedra
Pedro Nel Gómez:
Mindset innovador a
prueba de futuro**

PROYECTO CULTURAL, CIENTÍFICO Y COLECTIVO DE NACIÓN



Cátedra Pedro Nel Gómez: **Mindset innovador a prueba de futuro**

Docente:

Ingeniero administrador
Juan David Correa Toro

Código: 3011073 - asignatura de Libre Elección de 3 créditos





PROYECTO CULTURAL, CIENTÍFICO Y COLECTIVO DE NACIÓN



UNIVERSIDAD
NACIONAL
DE COLOMBIA

Sacándole provecho a las **tecnologías exponenciales**:

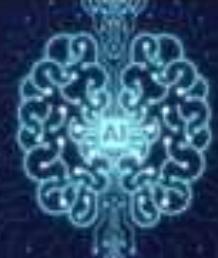
***Inteligencia artificial parte 3:
Reflexiones sobre el futuro***
18/04/2023

**Cátedra
Pedro Nel Gómez:
Mindset innovador a
prueba de futuro**



Agenda

- Educación.
- Deep learning 3.0
- De la N a la G y luego a la S
- Una nueva ecuación para la inteligencia
- Las preocupaciones
- Las obligaciones
- Las nuevas conversaciones
- Un poco de ciencia ficción
- Jugando al futurólogo
- La singularidad
- El conversatorio



Futuro

i

EL FIN DE LOS TÍTULOS



<https://www.youtube.com/watch?v=uK3tDlzbCTI>

Deep learning 3.0



<https://youtu.be/PoDNIIEw9bU?t=2492>



ANI

AGI

ASI

Artificial Narrow Intelligence

Artificial General Intelligence

Artificial Super Intelligence

better than humans in one specific task
e.g. autonomous driving

capable like humans in every task

better than humans in every task

22/03/2023

Sparks of Artificial General Intelligence: Early experiments with GPT-4

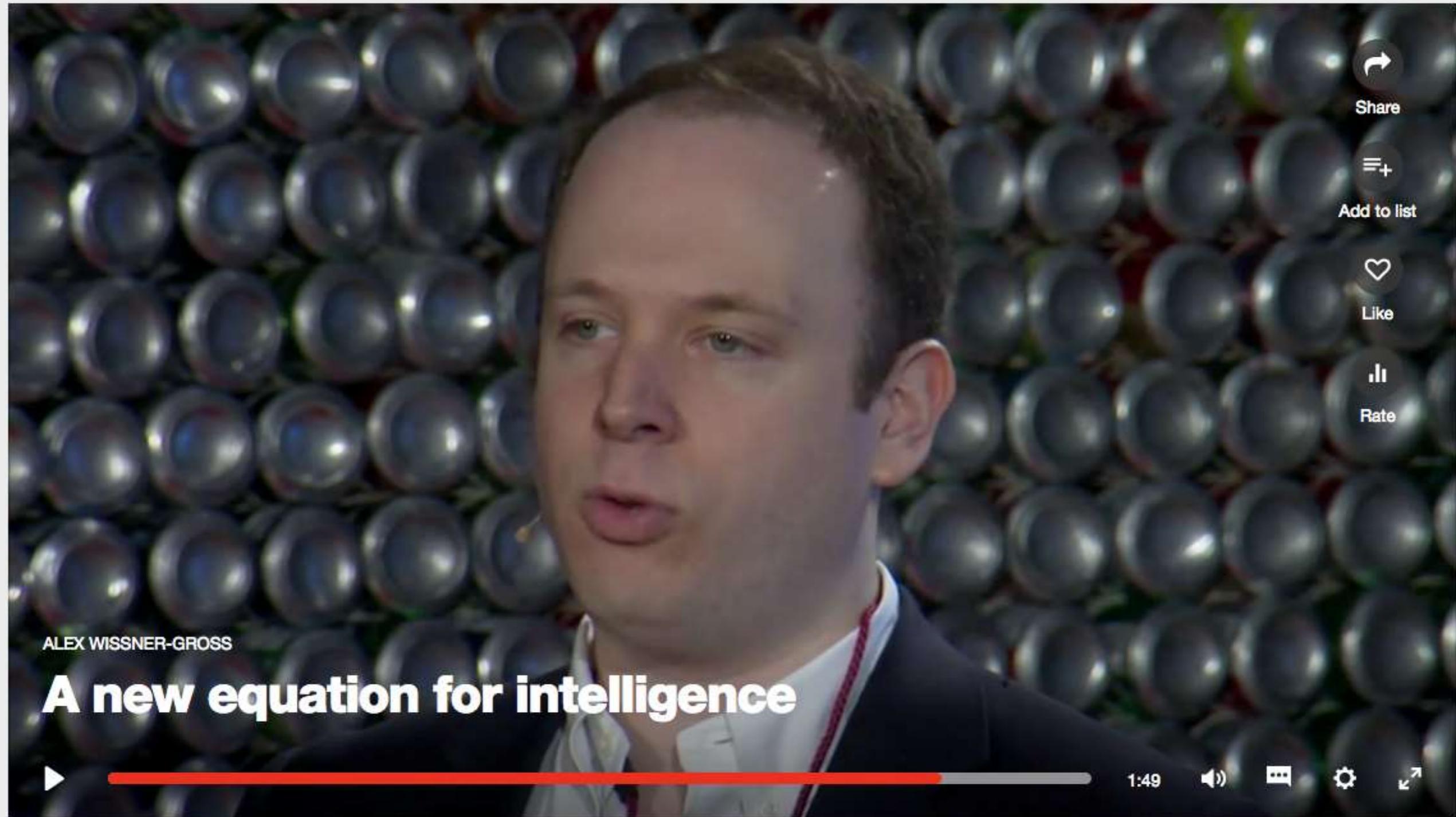
Sébastien Bubeck Varun Chandrasekaran Ronen Eldan Johannes Gehrke
Eric Horvitz Ece Kamar Peter Lee Yin Tat Lee Yuanzhi Li Scott Lundberg
Harsha Nori Hamid Palangi Marco Tulio Ribeiro Yi Zhang

Microsoft Research

Abstract

Artificial intelligence (AI) researchers have been developing and refining large language models (LLMs) that exhibit remarkable capabilities across a variety of domains and tasks, challenging our understanding of learning and cognition. The latest model developed by OpenAI, GPT-4 [Ope23], was trained using an unprecedented scale of compute and data. In this paper, we report on our investigation of an early version of GPT-4, when it was still in active development by OpenAI. We contend that (this early version of) GPT-4 is part of a new cohort of LLMs (along with ChatGPT and Google’s PaLM for example) that exhibit

<https://arxiv.org/pdf/2303.12712.pdf>



[https://www.ted.com/talks/alex wissner gross a new equation for intelligence/](https://www.ted.com/talks/alex_wissner_gross_a_new_equation_for_intelligence/)

**“No es que las máquinas primero se vuelven
inteligentes y luego megalómanas y que intenten
apoderarse del mundo...**

...Es todo lo contrario, que *el impulso de tomar el control de todos los futuros posibles es un principio más fundamental que el de la inteligencia*, que la inteligencia general puede de hecho surgir directamente de tomar el control, en vez de ser al revés.”

- Alex Wissner-Gross

“En pocas palabras, a la inteligencia no le gusta quedar atrapada. La inteligencia intenta maximizar la futura libertad de acción y mantener las opciones abiertas.”

- Alex Wissner-Gross



A TED Talk video player interface. The main image shows a man with dark hair and a beard, wearing a dark t-shirt, speaking in front of a large, stylized globe with orange and red hues. A white play button icon is centered over the video frame. Below the video, the title of the talk is displayed in large, bold, white text: "Can we build AI without losing control over it?". At the bottom of the screen, there is a control bar with a play button, a progress bar, a timestamp of "14:27", and several small icons for volume, captions, settings, and sharing.

Share

Add to list

Like

https://www.ted.com/talks/sam_harris_can_we_build_ai_without_losing_control_over_it

Adopción de metas



The image shows a video thumbnail for Max Tegmark. He is a man with dark hair, wearing a light-colored striped shirt, sitting at a desk and gesturing with his hands while speaking. In the top right corner of the video frame, the "big think." logo is visible. Below the video, the title of the article is displayed in a dark grey box.

Why Superintelligent AI Could Be the Last Human Invention ★2



Max Tegmark

Author and Physicist

Max Tegmark has a bone to pick with Hollywood. We shouldn't be afraid of AI or, for that matter, a robot uprising. We should be more afraid of the next few years while we try and get AI through this early phase. Right now, just the same way a child would, machines take us literally. The key to the next few years is getting them to understand and adopt human logic—i.e. killing is bad and that just because you can doesn't mean you should—because if we don't set those boundaries now, in the future we may be viewed as nothing more than ants in their way.

<https://is.gd/kvURj3>



Share



Add to list



Like

Machine intelligence makes human morals more important



https://www.ted.com/talks/zeynep_tufekci_machine_intelligence_makes_human_morals_more_important

Alineación de la Inteligencia Artificial (AI Alignment)



<https://ai-alignment.com/>

A Research Agenda for Assessing the Economic Impacts of Code Generation Models

Sam Manning^{1†}, Pamela Mishkin^{*2†}, Gillian Hadfield³, Tyna Eloundou², and Emily Eisner⁴

¹*OpenResearch*

²*OpenAI*

³*University of Toronto*

⁴*University of California, Berkeley*

[†]*These authors contributed equally to this work.*

March 3, 2022

2 Motivations

2.1 Consider economic impacts as part of the AI Safety framework

A key motivation for the research agenda we propose in this paper is to ensure AI safety: even though the current capabilities of Codex do not threaten large-scale economic disruption or harm to human systems, future capabilities of code generation or other LLMs could. It is critical to engage in research about the economic impacts of model capabilities today in order to be positioned to assess the safety of developing and releasing more advanced systems in the future.

TYPE IV SELF-AWARE

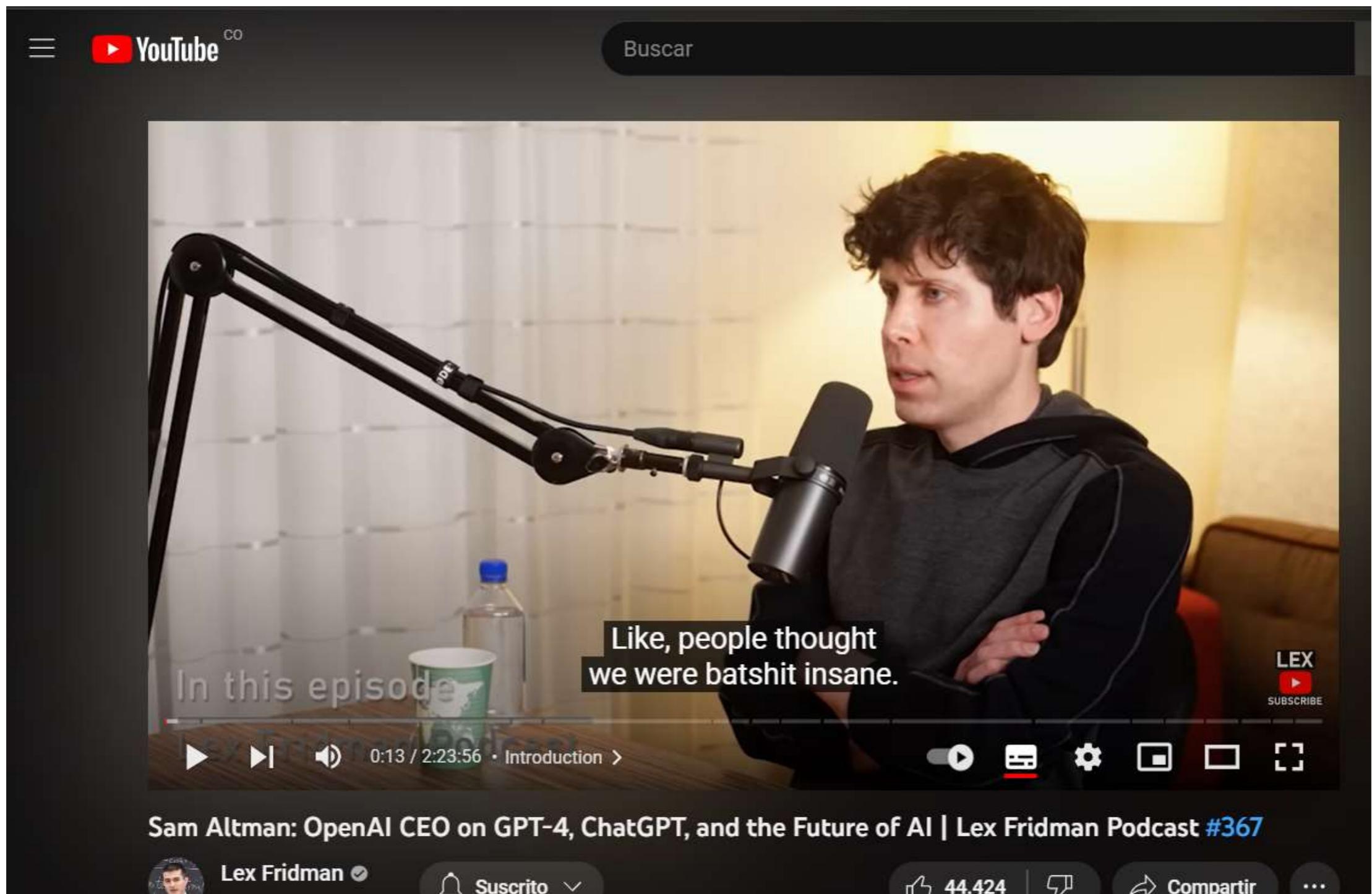


These types of AI can form representations about themselves. An extension of the theory of mind, they are aware of their internal states, can predict the feelings of others, and can make abstractions and inferences. They are the future generation of machines: super intelligent, sentient, and conscious.

Examples:

- Eva in the 2015 movie *Ex Machina*
- Synths in the 2015 TV series *Humans*

La nueva altura y profundidad de las conversaciones



https://www.youtube.com/watch?v=L_Guz73e6fw



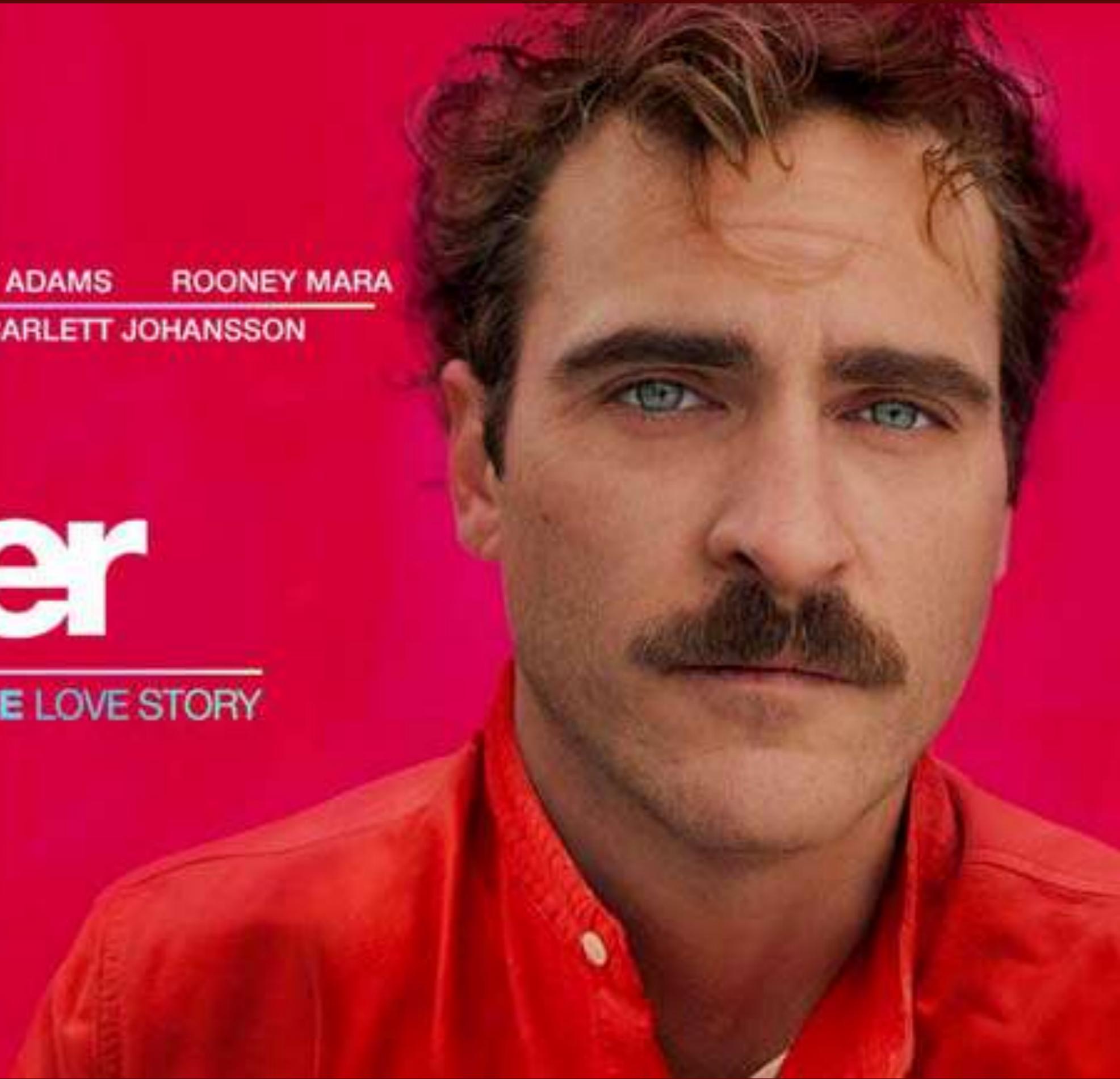
ex machina

2029: R. K.

JOAQUIN PHOENIX AMY ADAMS ROONEY MARA
OLIVIA WILDE SCARLETT JOHANSSON

her

A SPIKE JONZE LOVE STORY





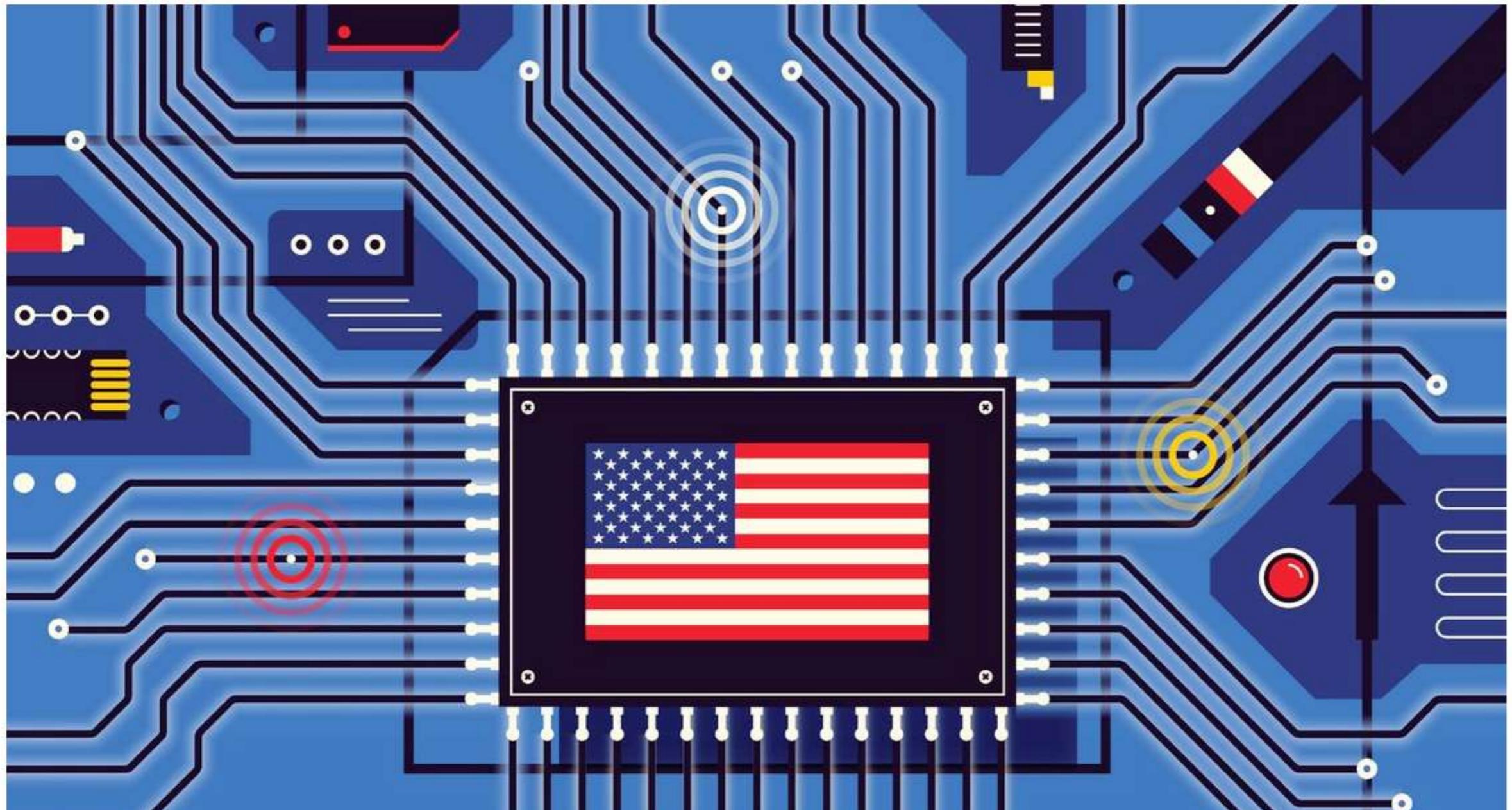
Hablemos del futuro de la IA... 🎬

Carlos Santana

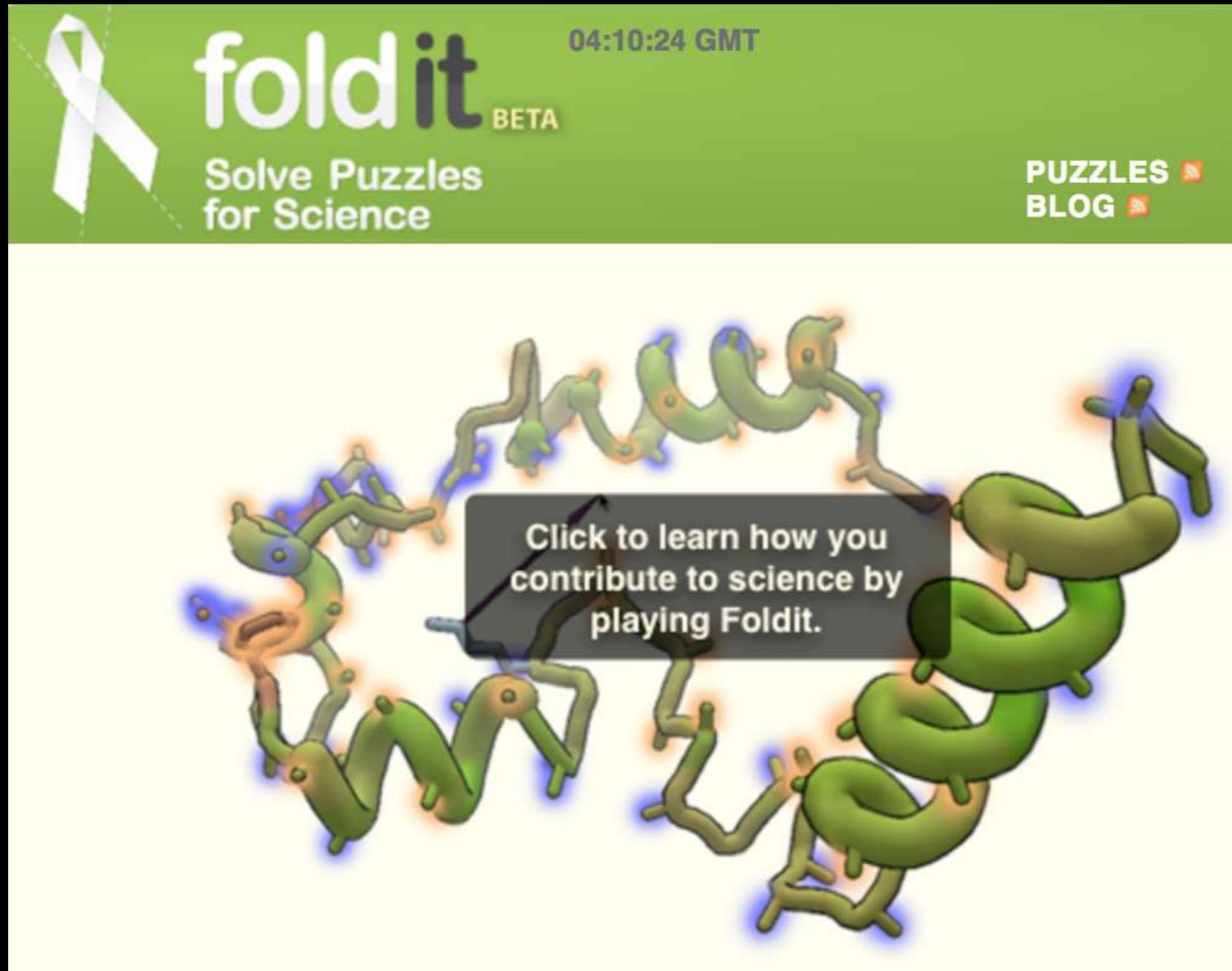
<https://youtu.be/PoDNIIEw9bU>

JOSHUA DAVIS BUSINESS 05.18.17 07:00 AM

HEAR ME OUT: LET'S ELECT AN AI AS PRESIDENT



¿Y cuando mezclemos la Inteligencia artificial, con otros avances modernos?



¿Y cuando mezclemos la Inteligencia artificial, con otros avances modernos?

 **Artificial Intelligence**

Volume 174, Issue 2, February 2010, Pages 162-176 

Quantum computation, quantum theory and AI 

Mingsheng Ying ^{a, b}  

Show more

<https://doi.org/10.1016/j.artint.2009.11.009> [Get rights and content](#)

Under an Elsevier user license [open archive](#)

From words 

<http://www.sciencedirect.com/science/article/pii/S0004370209001398>

Artificial Intelligence

AI and Quantum Computers Are Our Best Weapons Against Cyber Criminals

 Wavebreakmedia Ltd/Getty

IN BRIEF

Major companies like IBM are turning to artificial intelligence and quantum computing to protect against cyber attacks. While these technologies aren't silver bullets, they are essential tools for cyber security in the age of the Internet of Things.

SHARE



WRITTEN BY

Christianna Reedy



May 29, 2017

<https://futurism.com/ai-and-quantum-computers-are-our-best-weapons-against-cyber-criminals/>



**JACQUE
FRESCO
1916-2017**

https://es.wikipedia.org/wiki/Jacque_Fresco



About

Resource Based Economy

Learn More

Get Involved

Store

Donate



THE VENUS PROJECT
BEYOND POLITICS POVERTY AND WAR

<https://www.thevenusproject.com/>



Share



Add to list



Like



Get ready for hybrid thinking



9:52



https://www.ted.com/talks/ray_kurzweil_get_ready_for_hybrid_thinking



SEARCH

search here

Kurzweil: AI aces Turing Test in 2029, and the Singularity arrives in 2045

INTELLIGENCE AND THE SENSES

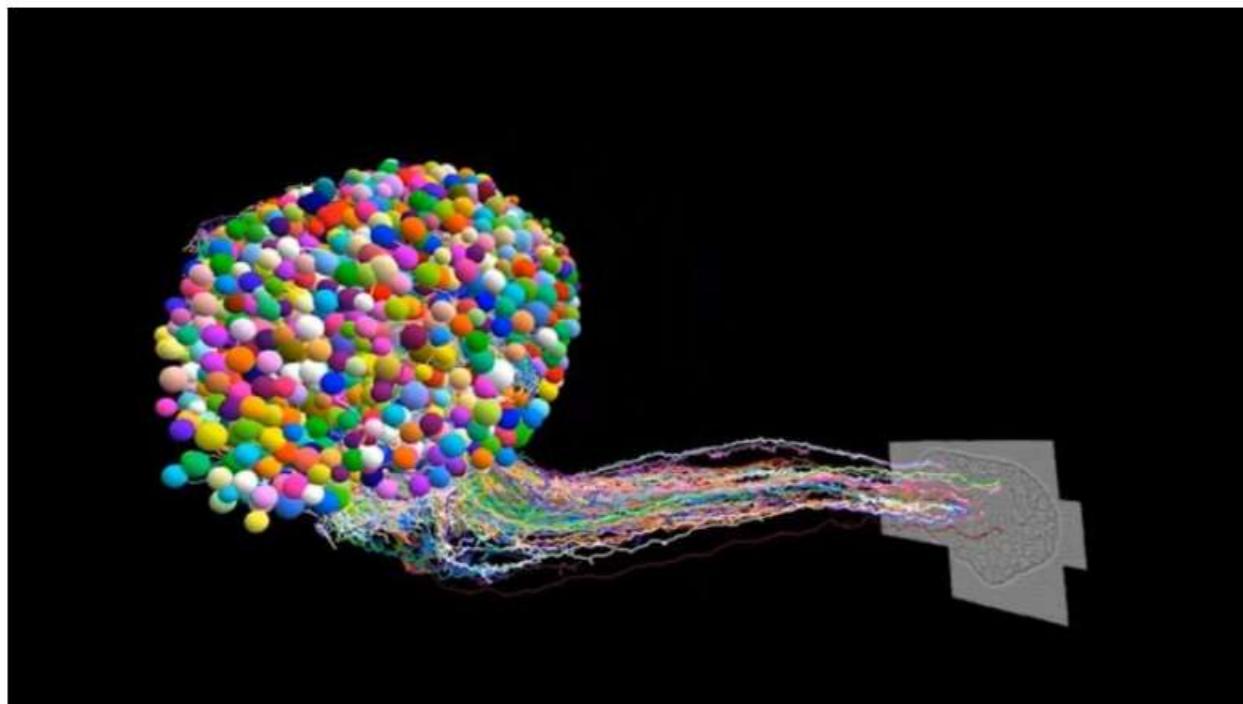
© 18th March 2017 Matthew Griffin 1

<http://www.fanaticalfuturist.com/2017/03/kurzweil-ai-aces-turing-test-in-2029-and-the-singularity-arrives-in-2045/>

The First Complete Brain Map of an Insect May Reveal Secrets for Better AI



By **Shelly Fan** > March 14, 2023

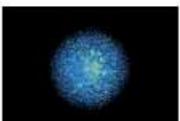


Breakthroughs don't often happen in neuroscience, but we just had one. In a tour-de-force, an international team released the full brain connectivity map of the young fruit fly, described in a paper published last week in *Science*. Containing 3,016 neurons and 548,000 synapses, the map—called a connectome—is the most complex whole-brain wiring diagram to date.

Don't miss a trend

Get Hub delivered to your inbox

FEATURED



Meta's New ChatGPT-Like AI Is Fluent in the Language of Proteins—and Has Already Modeled 700 Million of Them

March 21, 2023

[Load more ▾](#)

<https://singularityhub.com/2023/03/14/new-map-captures-every-connection-in-an-insects-brain-revealing-secrets-for-better-ai/>

**“We're going to literally merge with
this technology, with AI, to make us
smarter.”**

R.K.

<https://www.wired.com/story/ray-kurzweil-on-turing-tests-brain-extenders-and-ai-ethics/>

Sacándole provecho a las **tecnologías exponenciales**:

***Inteligencia artificial parte 4: Reflexiones
sobre el futuro:***

Conversatorio
18/04/2023

**Cátedra
Pedro Nel Gómez:
Mindset innovador a
prueba de futuro**

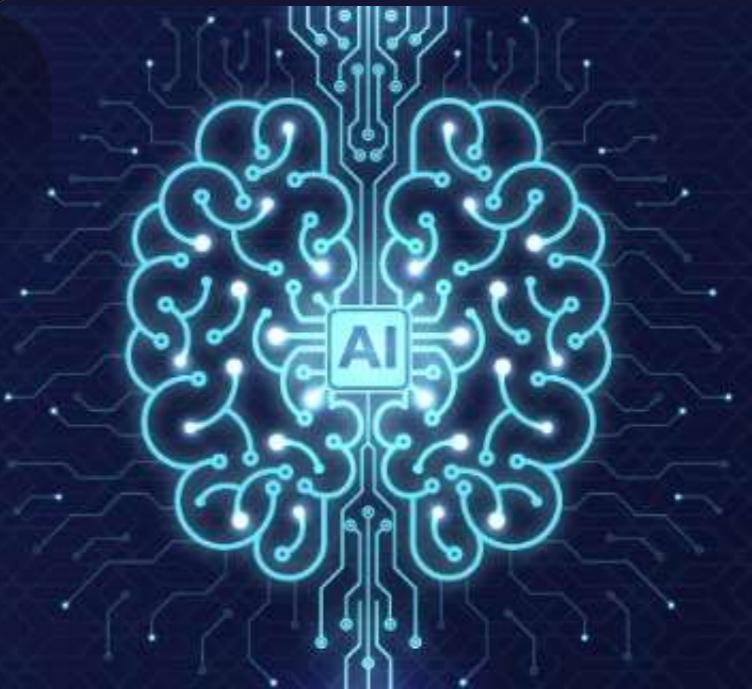


Gabriel Posada

<https://www.linkedin.com/in/gabrielposada/>



**Cátedra
Pedro Nel Gómez:
Mindset innovador a
prueba de futuro**



Francisco Vargas

<https://www.linkedin.com/in/jefravargas/>



**Cátedra
Pedro Nel Gómez:
Mindset innovador a
prueba de futuro**

