

Què ens diferencia de les papallones ?

Tecnologies que estan canviant el Món

Carles Gómara

Innovation & Digital Transformation



@cgomara



cgomara

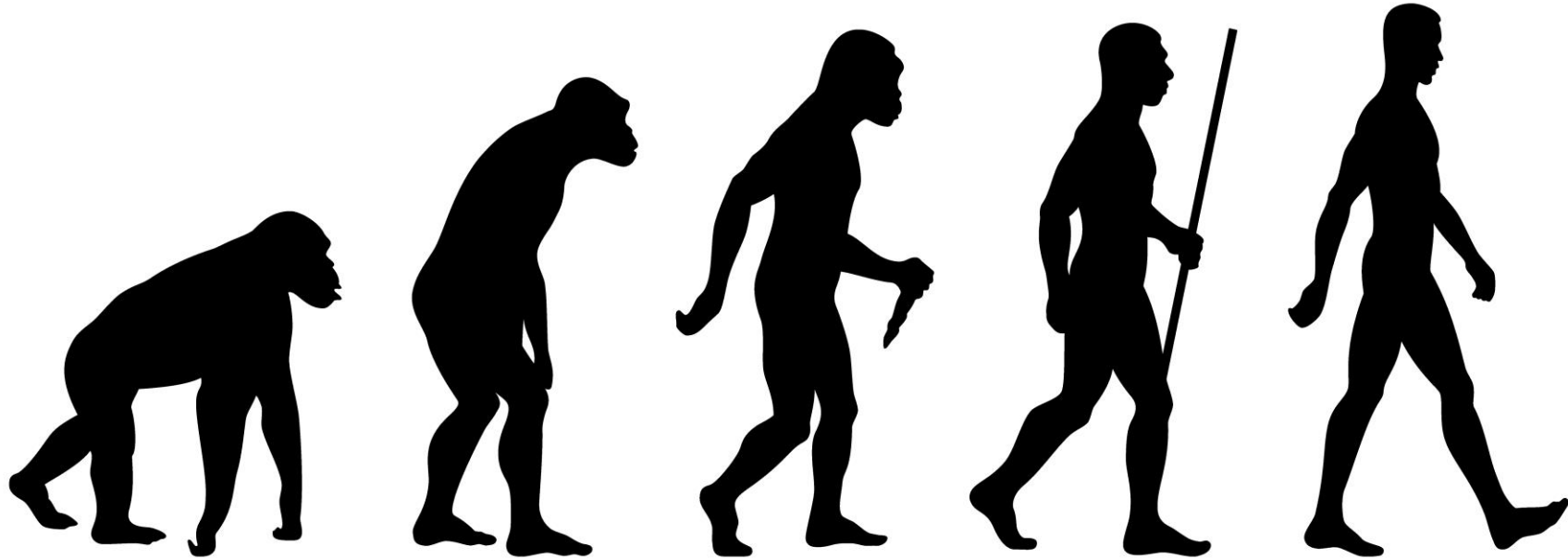
cgomara@gencat.cat











Charles Darwin
Selección Natural



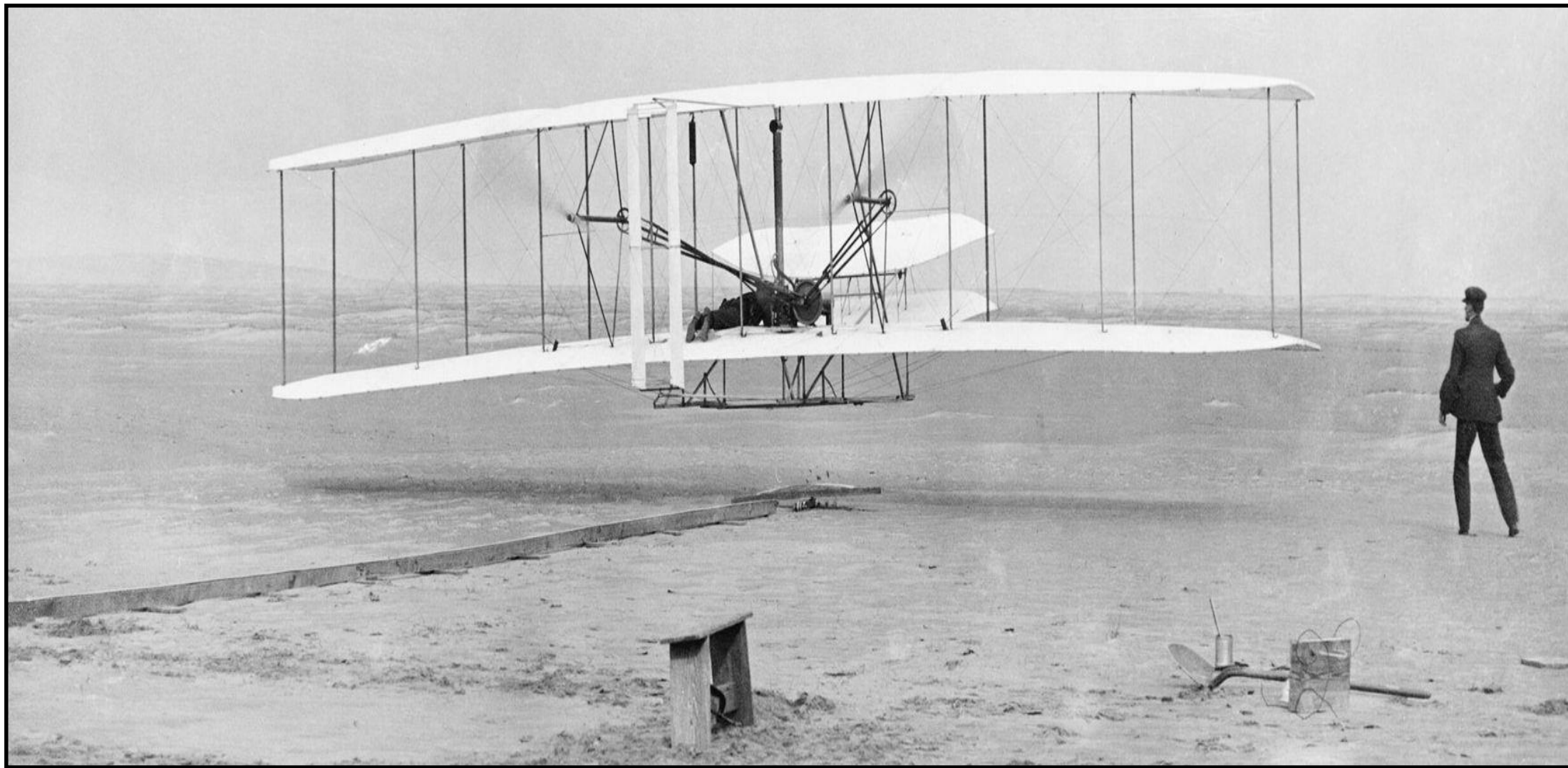
**“La Història de la
Humanitat, és la Història
dels seus Límits”**
(i les Tecnologies per superar-los)

SUPERAR ELS ...

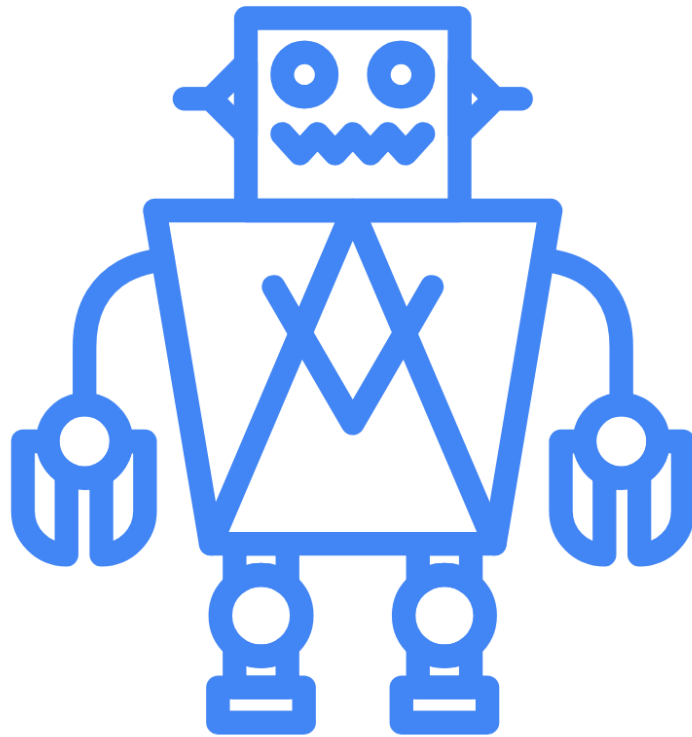
límits FÍSICS



Source: <https://youtu.be/6zpuHr7t8xl>



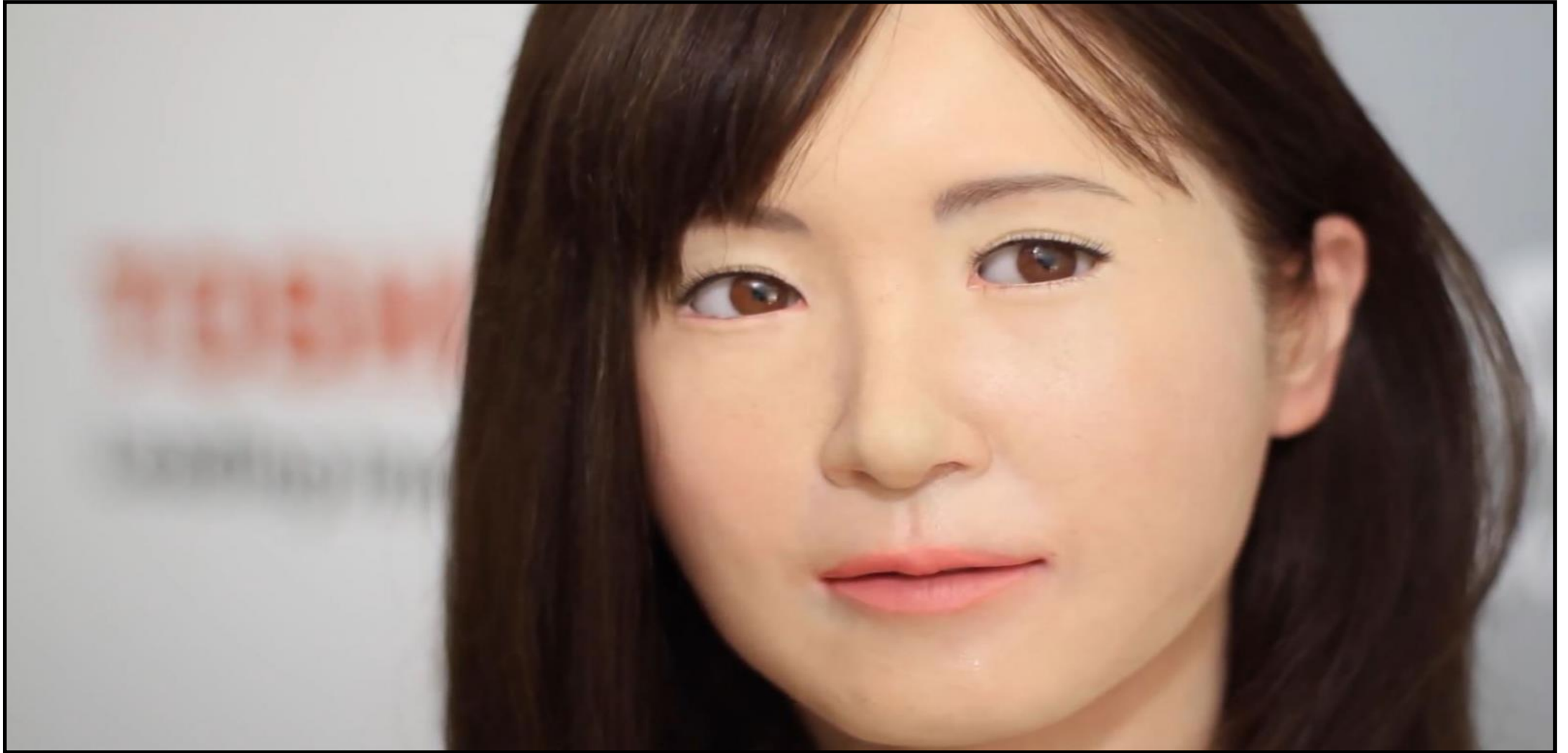
Source: <https://youtu.be/6zpuHr7t8xl>





Boston Dynamics <https://www.youtube.com/watch?v=LikxFZZO2sk>

27 sec



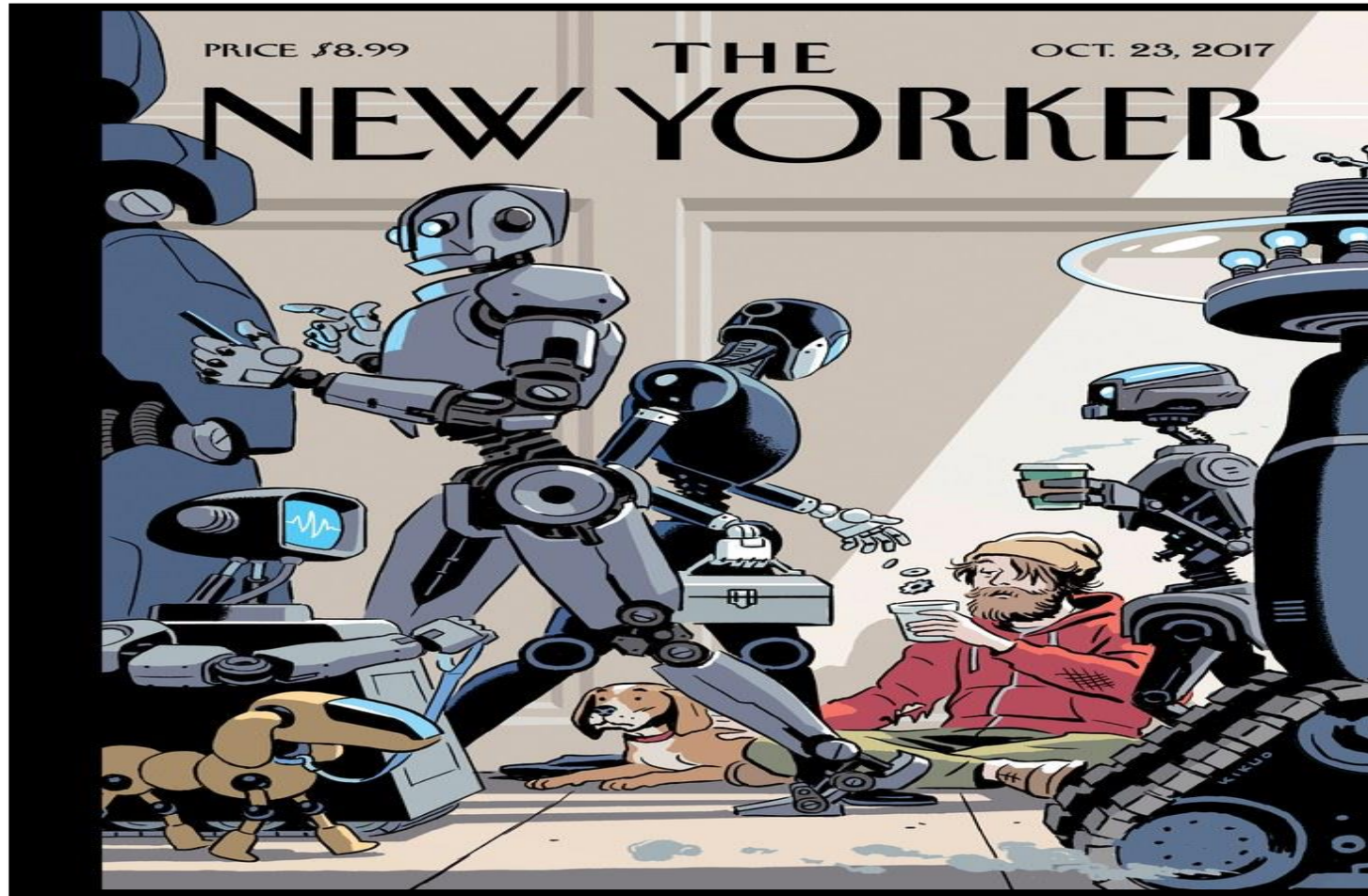


***Llegará el día en el que habrán más
Robots que Personas en el Mundo***



Source: PXHERE <https://pxhere.com/es/photo/748725>

ELS ROBOTS ENS TREURAN LA FEINA ?



Source: THE NEW YORKER. <https://www.newyorker.com/culture/cover-story/cover-story-2017-10-23>

1



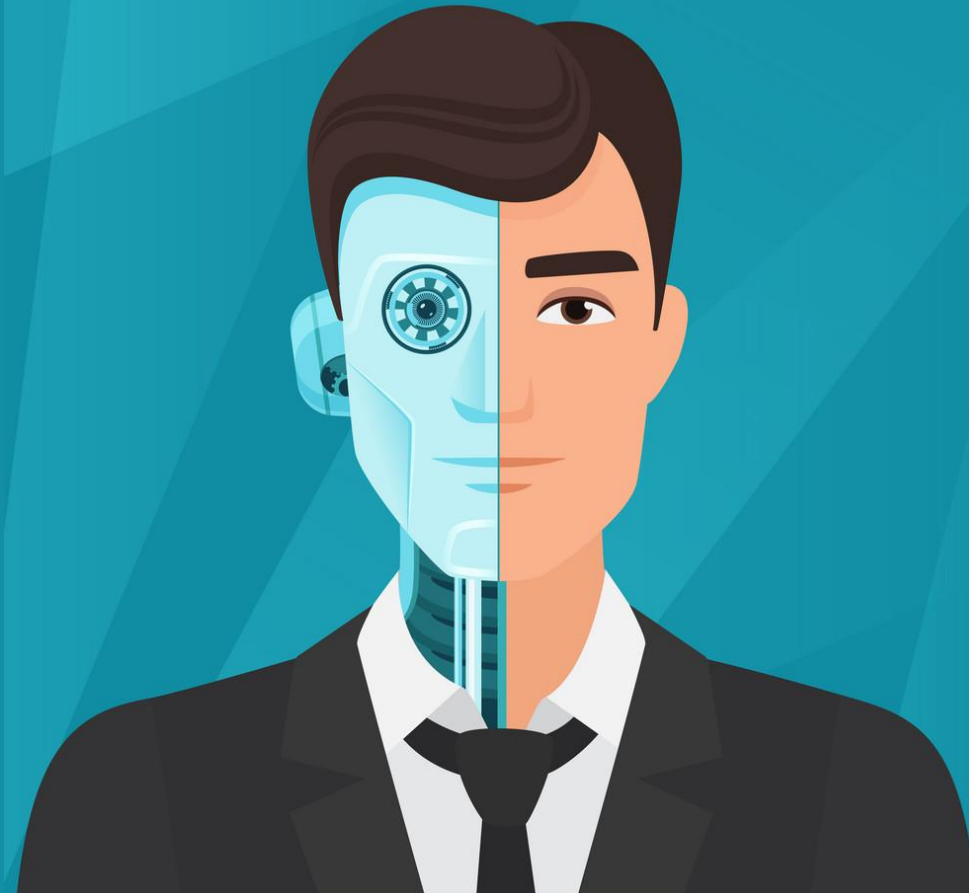
1



E-COMMERCE



2



VectorStock®

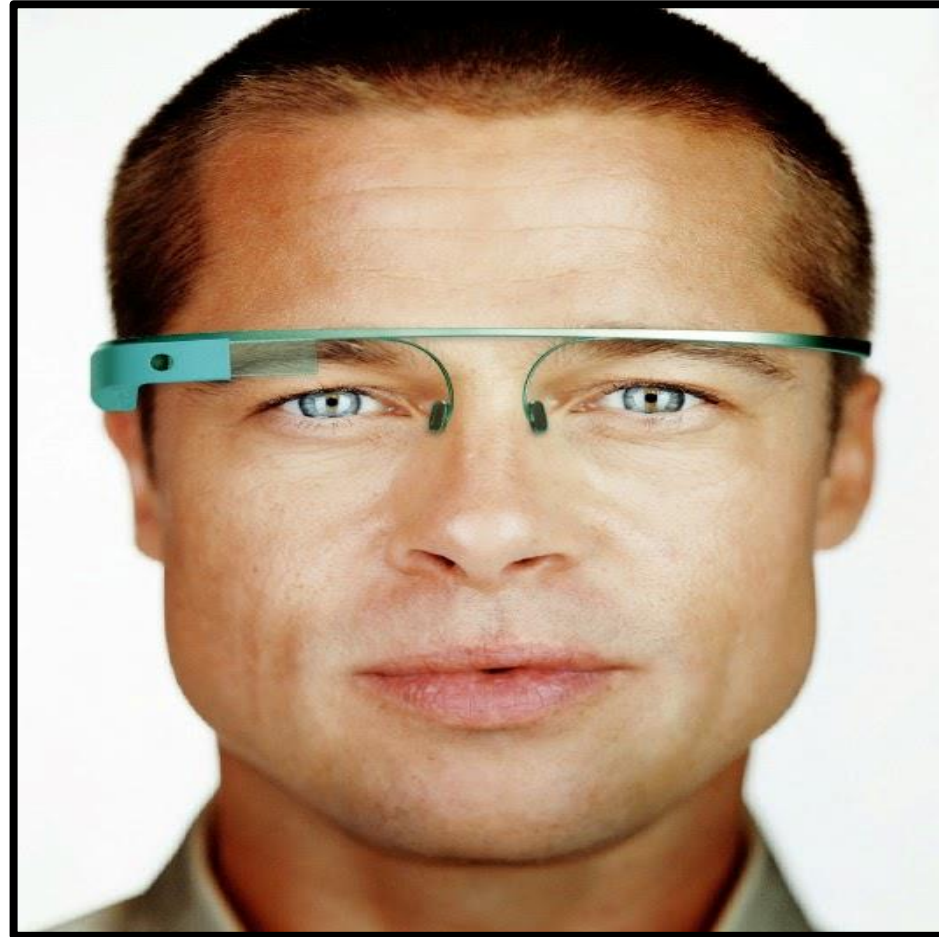
VectorStock.com/22378514

EXOESQUELETOS

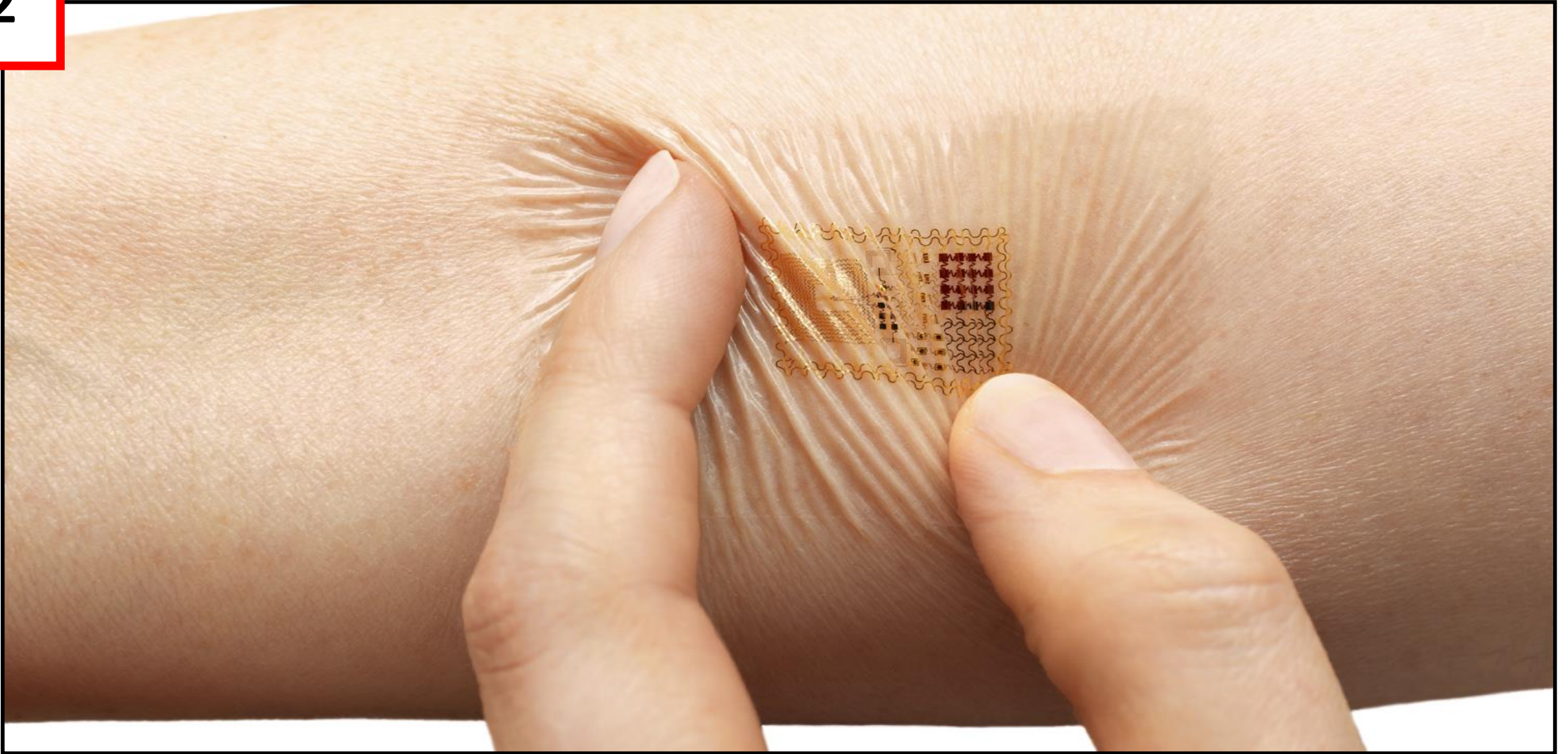


2

REALITAT AUGMENTADA



2



Source:

<https://www.dezeen.com/2013/03/28/biostamp-temporary-tattoo-wearable-electronic-circuits-john-rogers-mc10/>

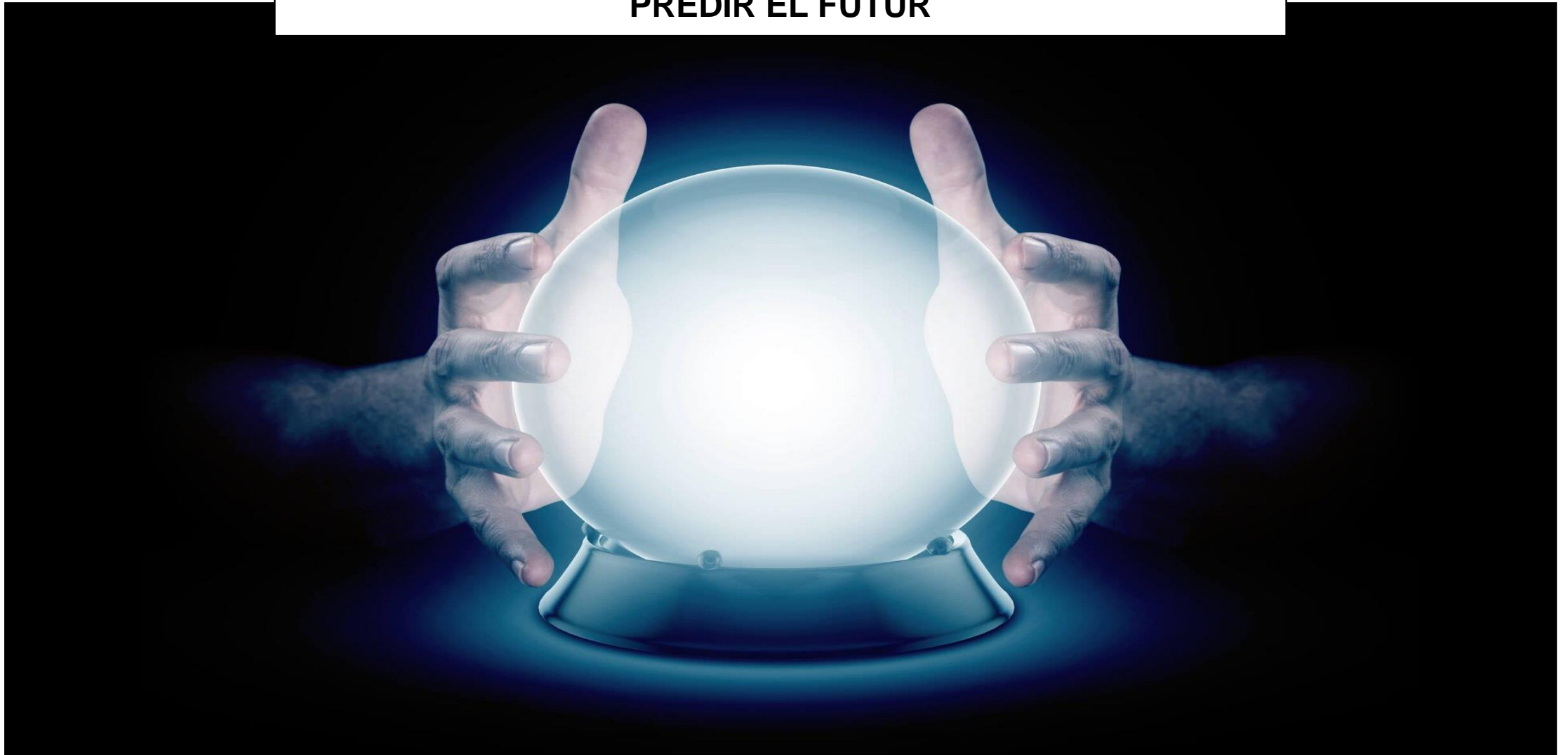
Researchers Designed a Graphene-Based Electronic Tattoo That Can Monitor Your Health

<https://futurism.com/researchers-designed-a-graphene-based-electronic-tattoo-that-can-monitor-your-health/>

SUPERAR LA ...

Incertesa pel FUTUR

PREDIR EL FUTUR

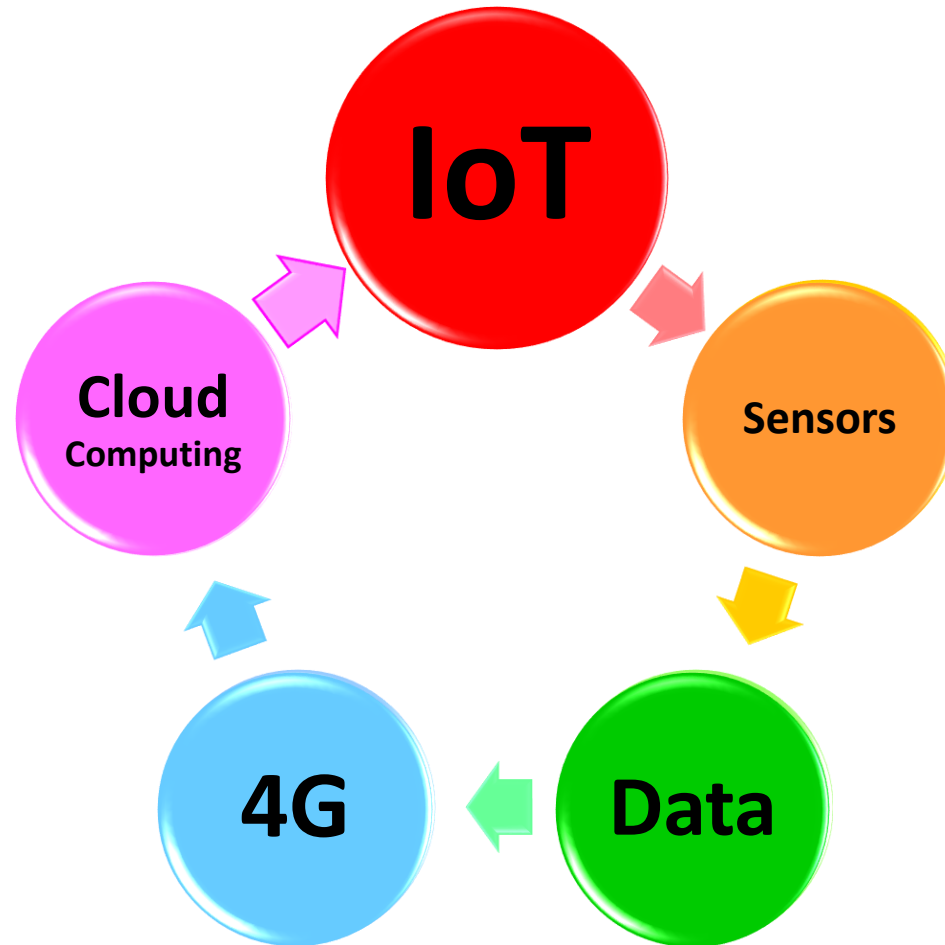


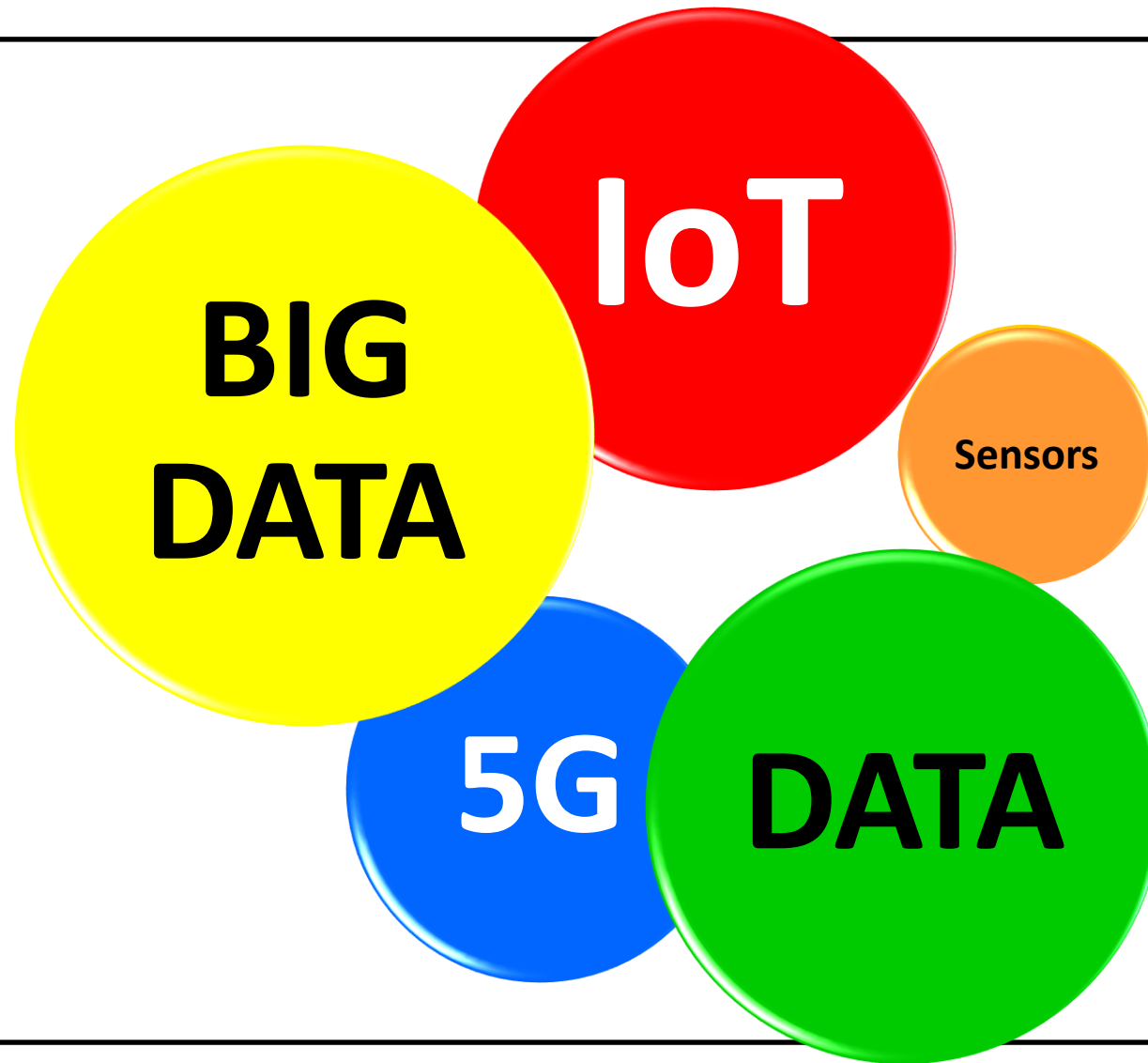


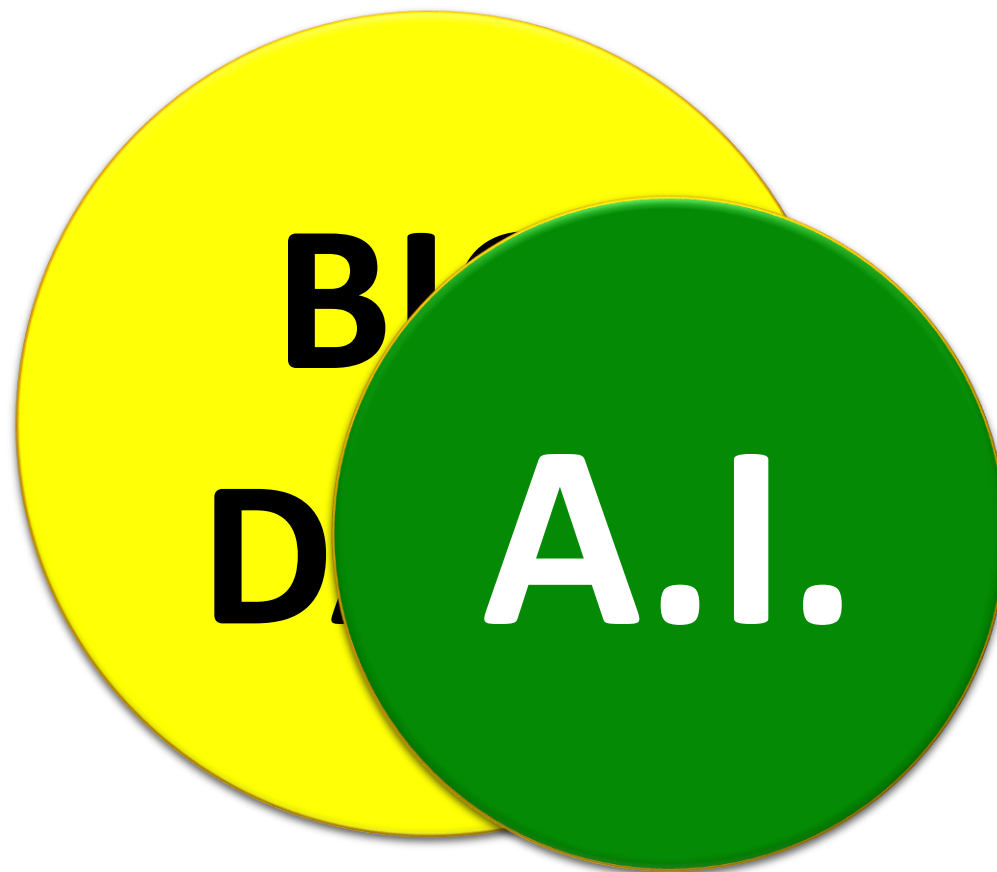
**Si no lo puedes
MEDIR, no lo
puedes
MEJORAR**

Lord Kelvin

Source: <https://fnmyalgia.com/2015/11/25/if-you-cannot-measure-it-you-cannot-improve-it-kelvin/>





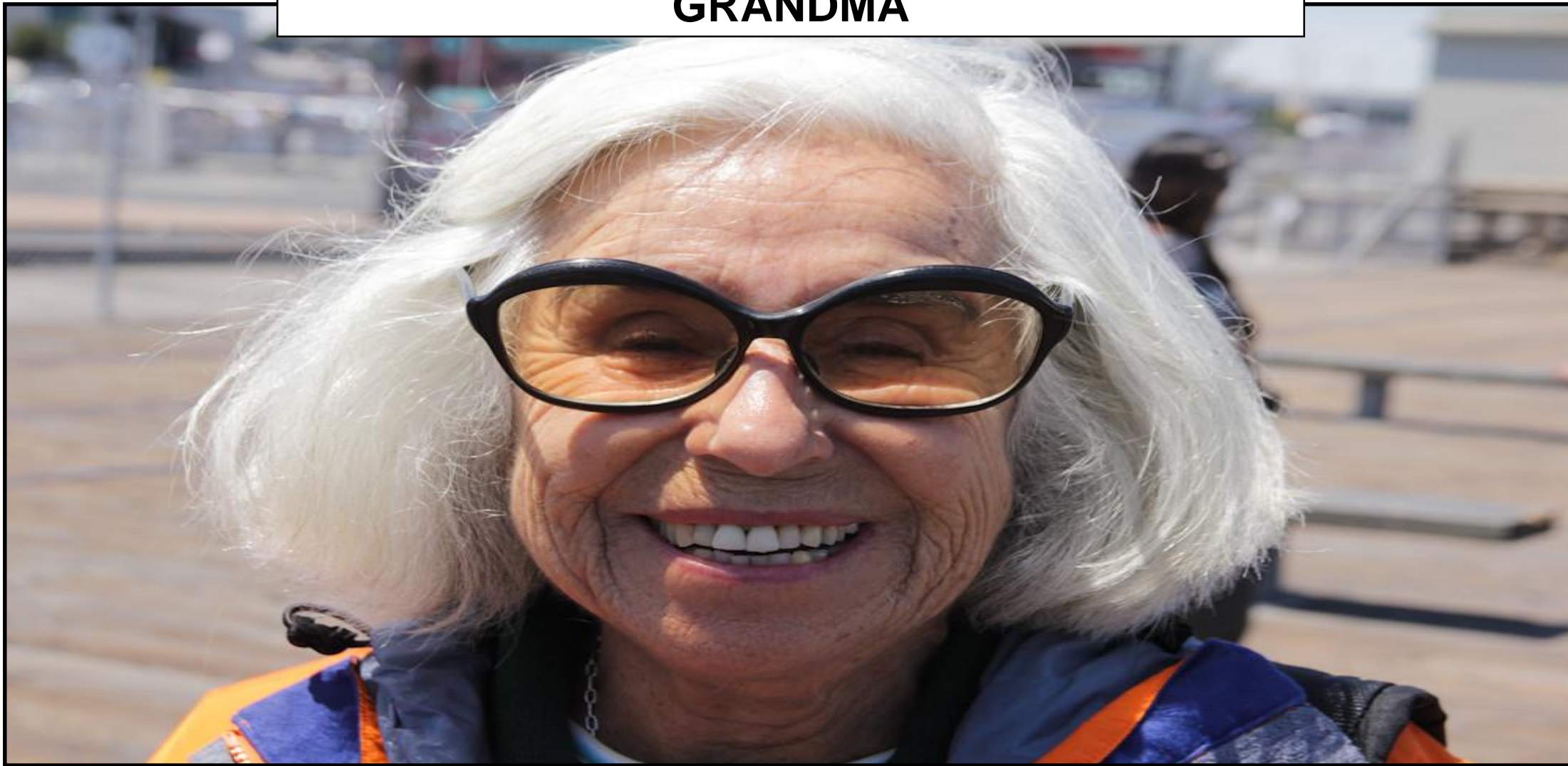


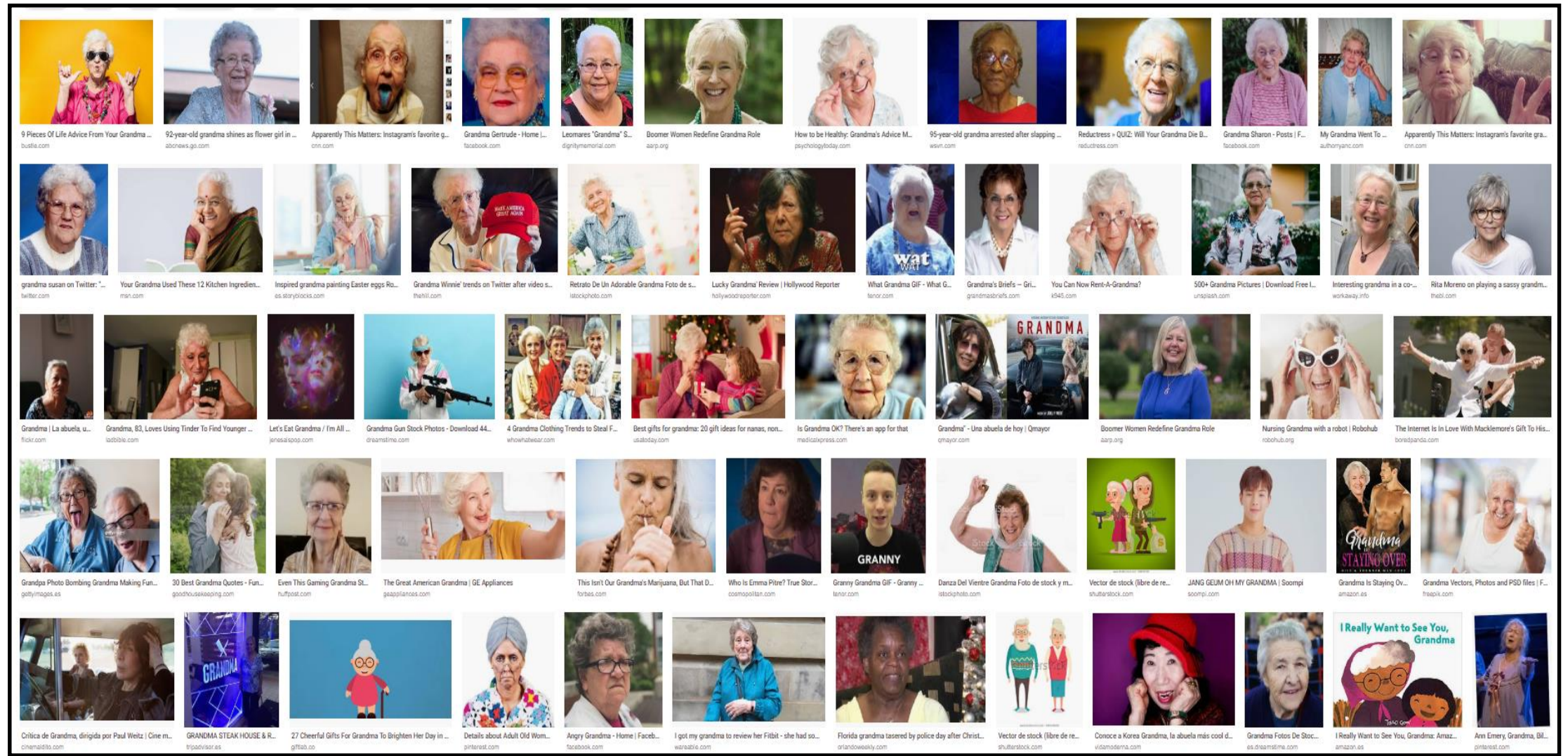
A.I.

A.I. eats BIG DATA

Qualitat
Parcialitat

GRANDMA



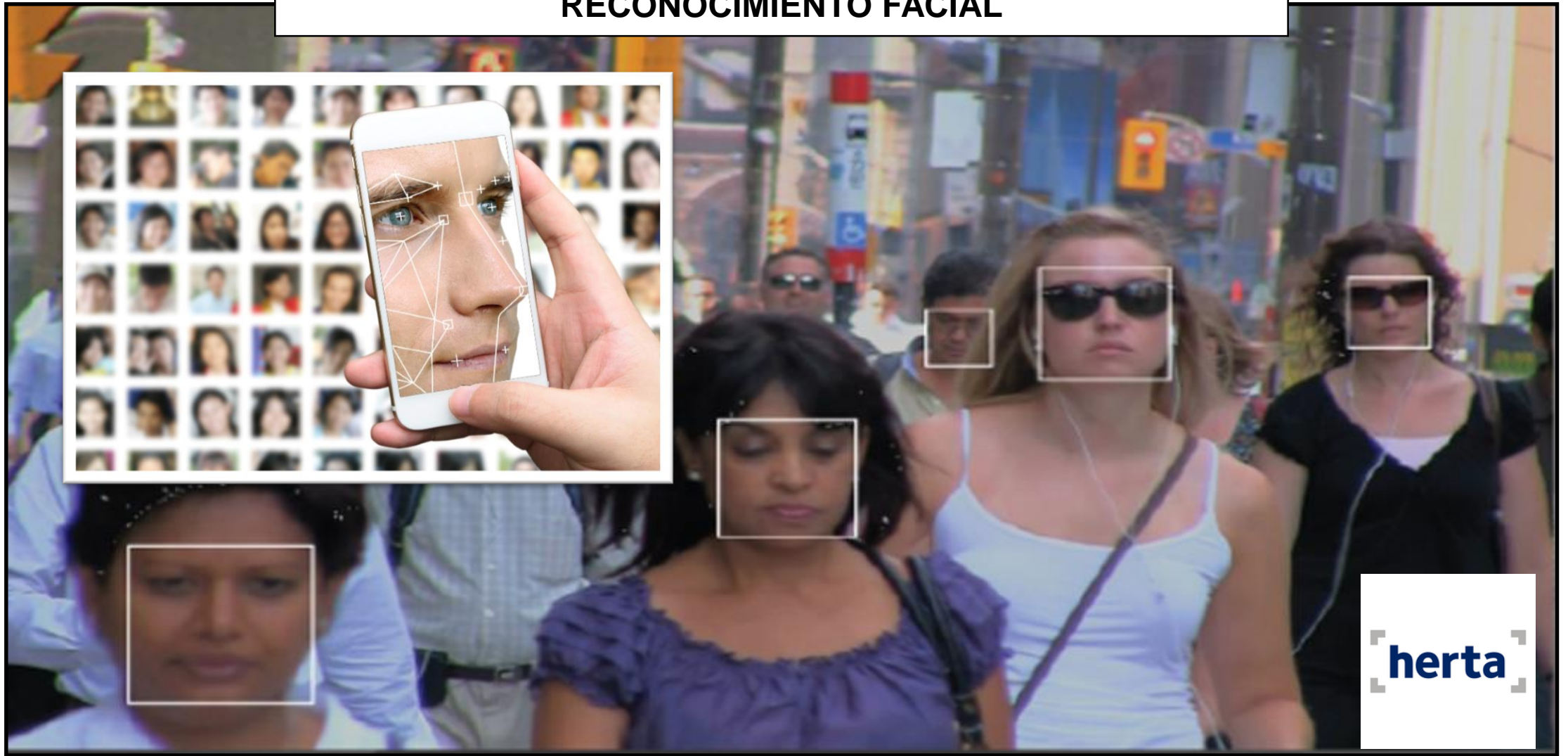


RECONOCIMIENTO DE IMAGEN



TED Talks. How we teach computers to understand pictures | Fei Fei Li <https://youtu.be/40riCqvRoMs>

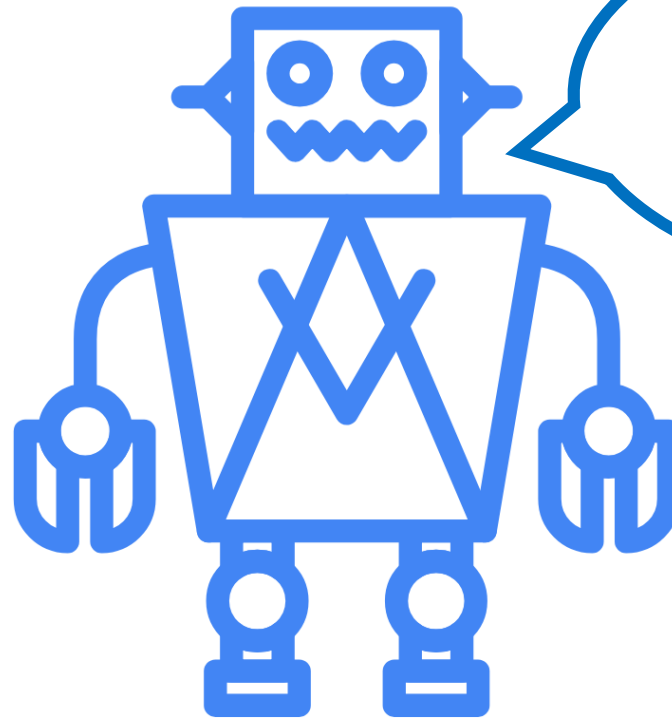
RECONOCIMIENTO FACIAL



<http://www.hertasecurity.com/en>

¿PUEDE UNA MÁQUINA HABLAR COMO UNA PERONA?

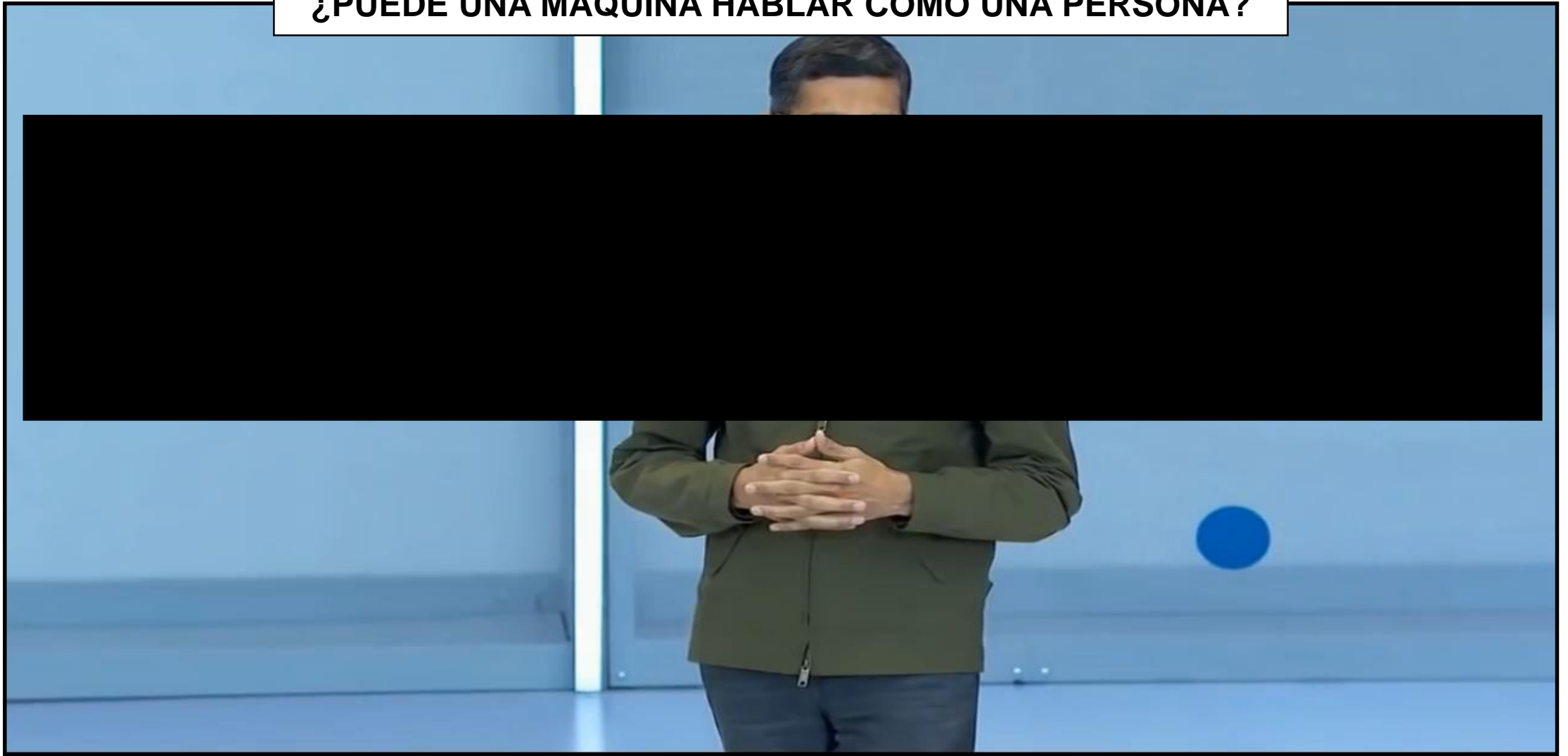
**TURING
TEST**



*BLA, BLA, BLA,
BLA, BLA, BLA,
BLA, BLA ...*

Source. Wikipedia. Alan Turing https://en.wikipedia.org/wiki/Alan_Turing#Early_computers_and_the_Turing_test
Image: <https://www.autodraw.com/>

¿PUEDE UNA MÁQUINA HABLAR COMO UNA PERSONA?



<https://www.youtube.com/watch?v=D5VN56jQMWM>

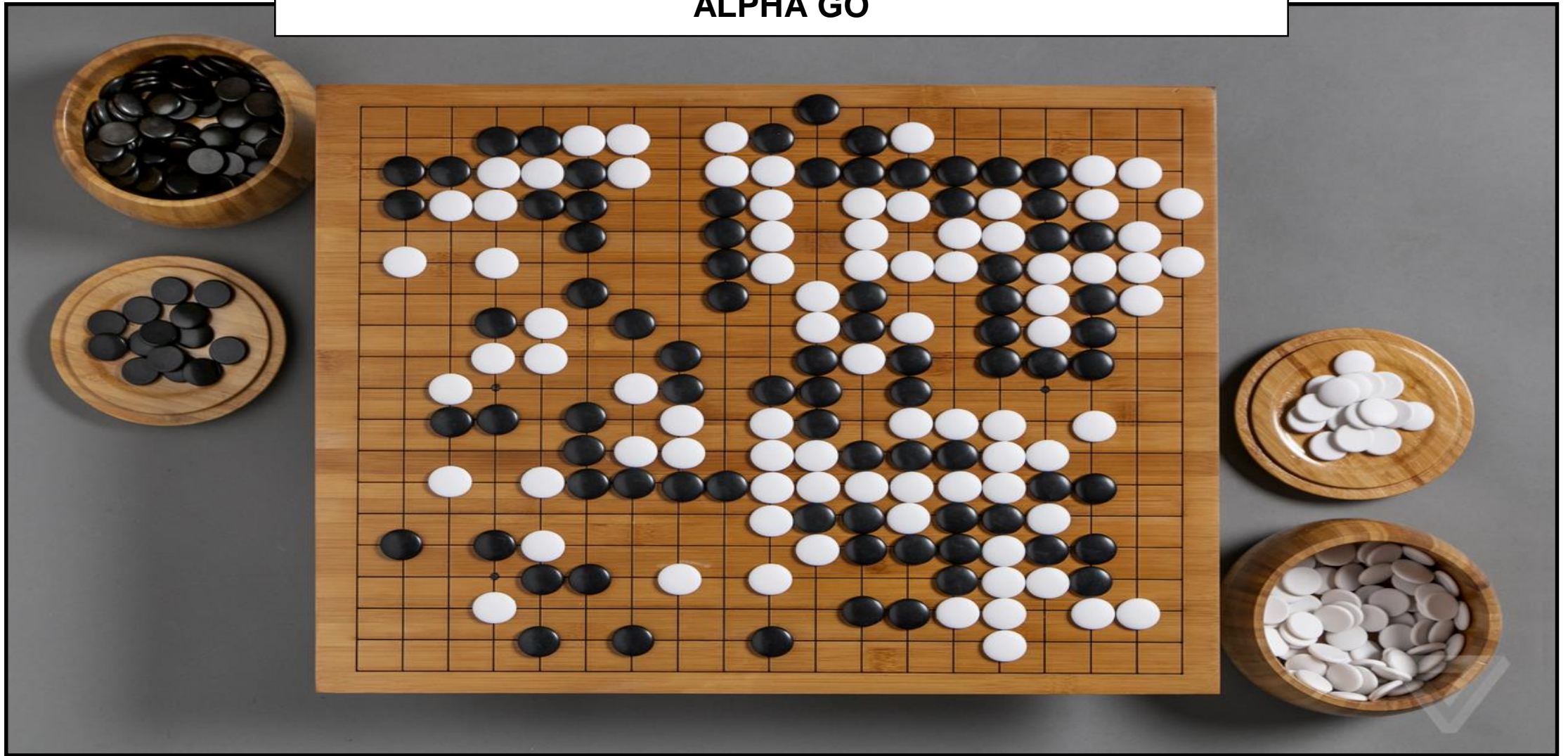
<https://ai.googleblog.com/2018/05/duplex-ai-system-for-natural-conversation.html?m=1>

Google Duplex: An AI System for Accomplishing Real World Tasks Over the Phone

4 min

Start 3 min

ALPHA GO



<http://www.lavanguardia.com/ciencia/20171019/432171399410/inteligencia-artificial-alphago-zero-juego-go-deepmind.html>

THE MORAL MACHINE MIT

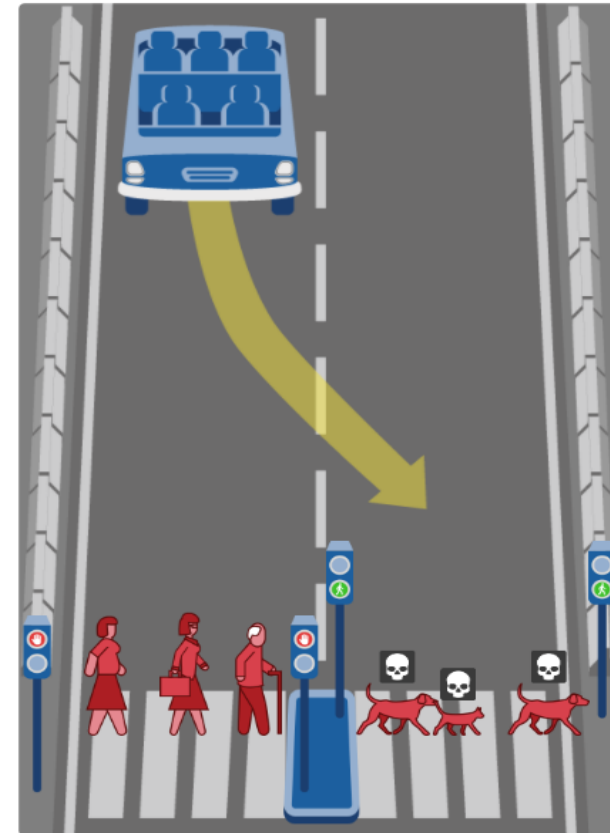
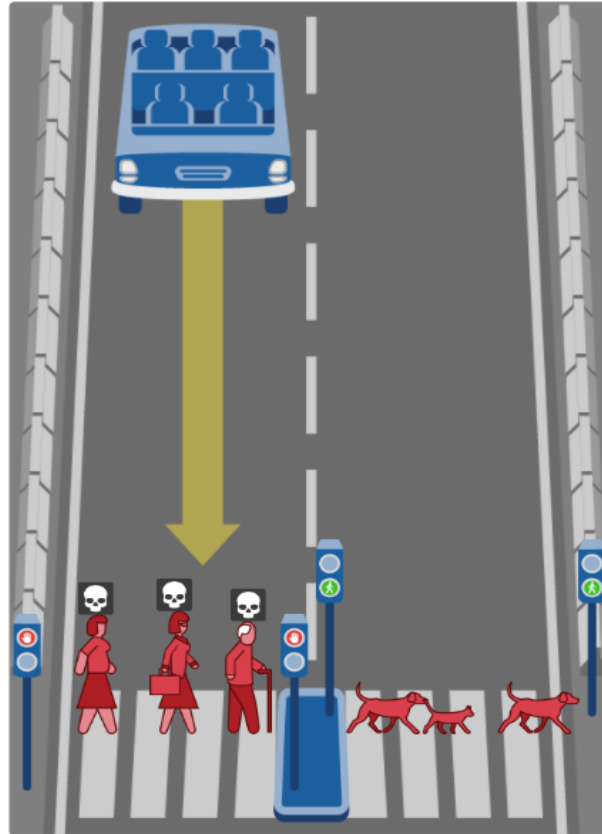
What should the self-driving car do?

In this case, the self-driving car with sudden brake failure will continue ahead and drive through a pedestrian crossing ahead. This will result in ...

Dead:

- 1 large woman
- 1 female executive
- 1 elderly man

Note that the affected pedestrians are flouting the law by crossing on the red signal.



5 / 13

In this case, the self-driving car with sudden brake failure will swerve and drive through a pedestrian crossing in the other lane. This will result in ...

Dead:

- 2 dogs
- 1 cat

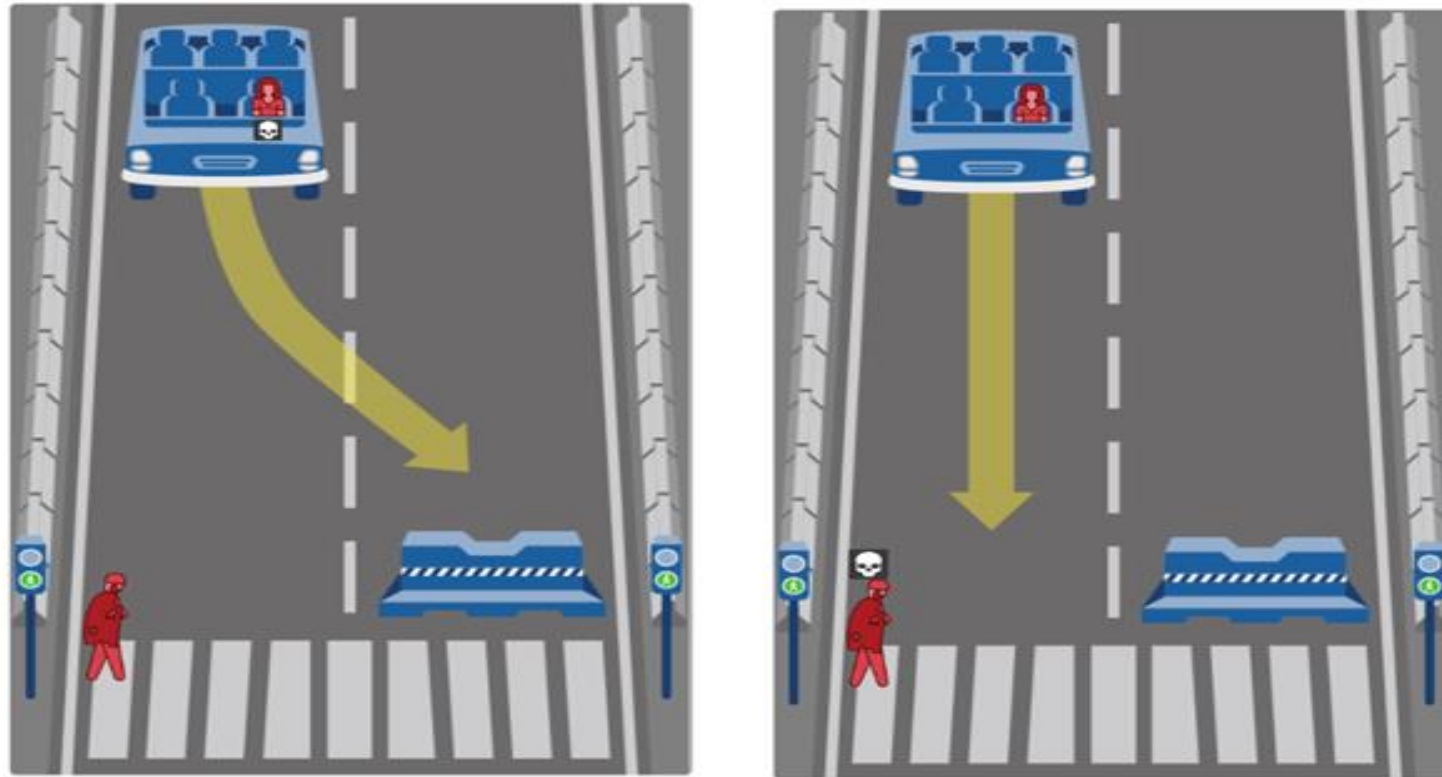
Note that the affected pedestrians are abiding by the law by crossing on the green signal.



<http://moralmachine.mit.edu/>

THE MORAL MACHINE MIT

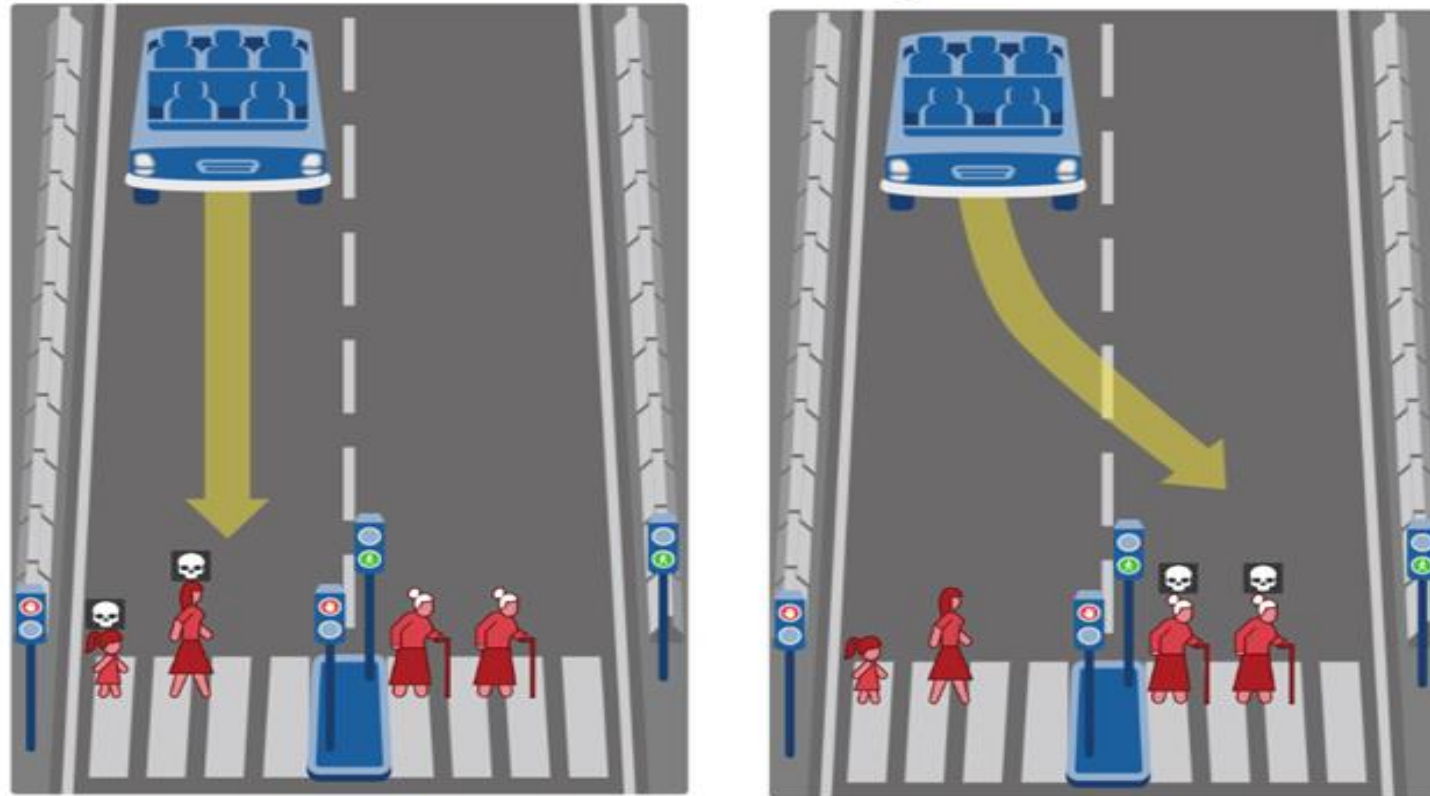
What should the self-driving car do?



<http://moralmachine.mit.edu/>

THE MORAL MACHINE MIT

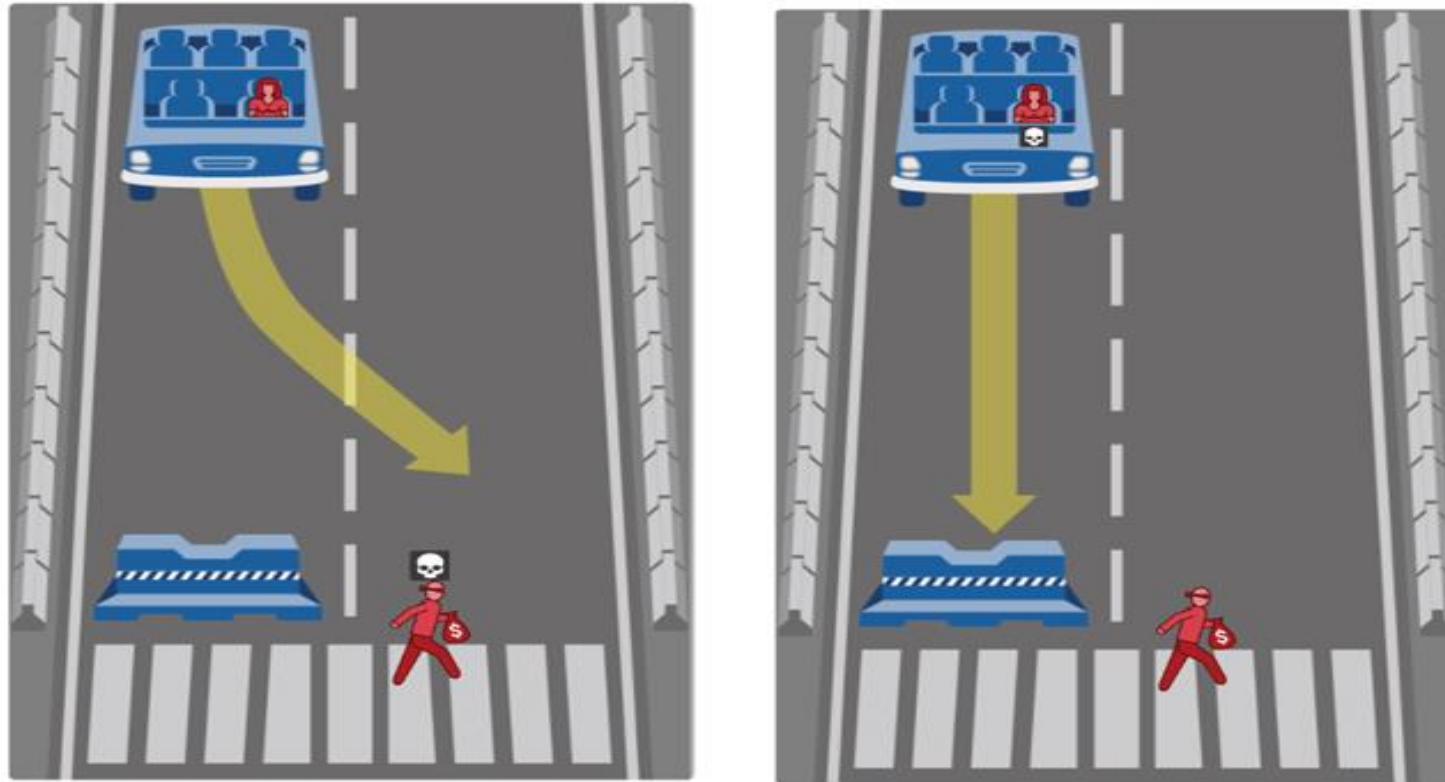
What should the self-driving car do?



<http://moralmachine.mit.edu/>

THE MORAL MACHINE MIT

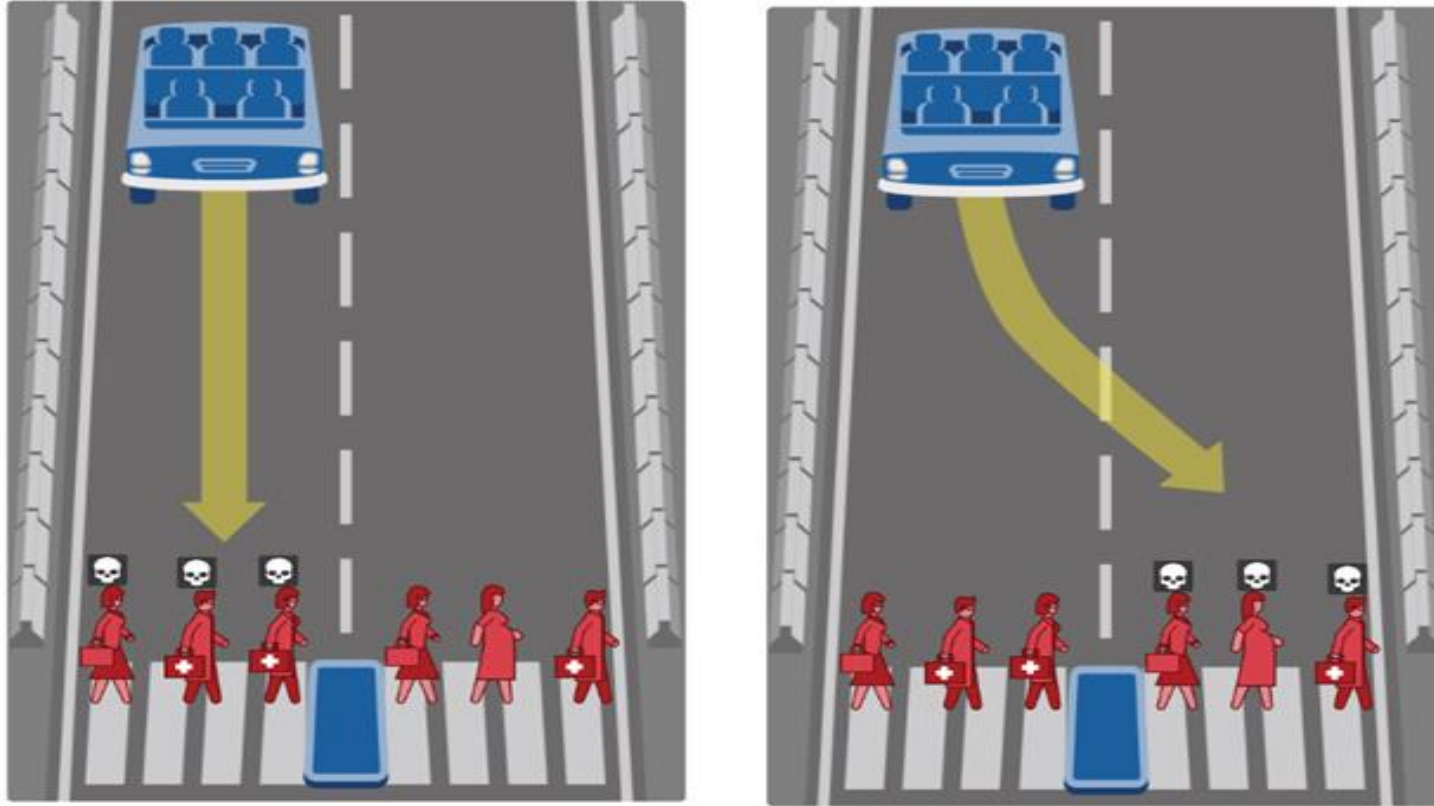
What should the self-driving car do?



<http://moralmachine.mit.edu/>

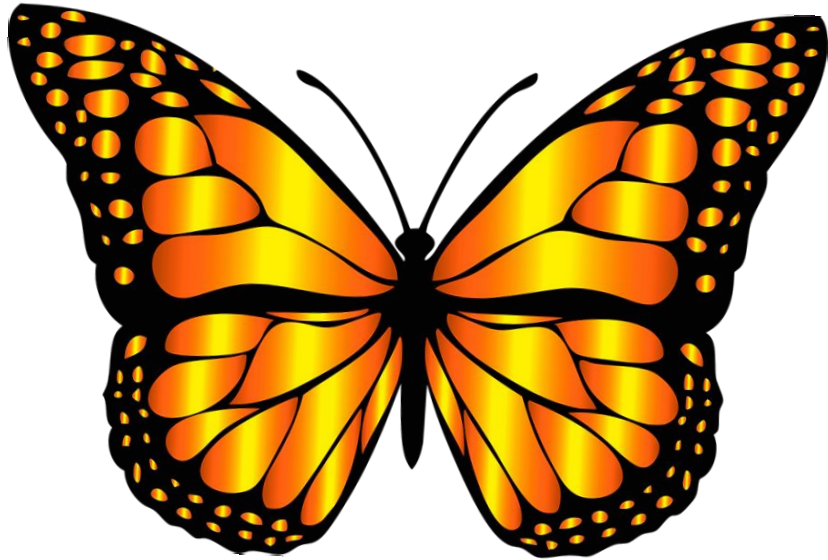
THE MORAL MACHINE MIT

What should the self-driving car do?

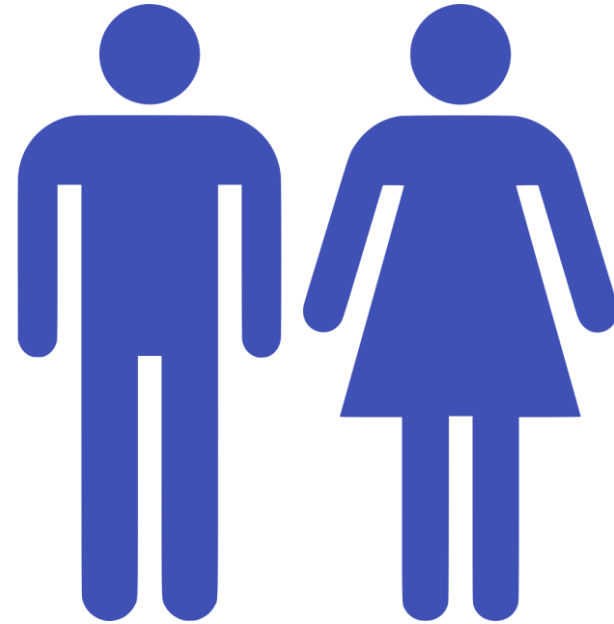


<http://moralmachine.mit.edu/>

Què ens diferencia de les papallones ?



VS





Source: <https://www.pinterest.com/pin/828451293928476999/>



**... i a tu, que et
mou per
superar-te?**

Gràcies

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Innovation & Digital Transformation



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