

# Artificial Intelligence

the game changer

27<sup>th</sup> of October

High performance. Delivered.

# “Google’s ‘worst’ self-driving accident was still a human’s fault”

The Verge News



“This takes away the monotonous and sometimes dangerous work, and leaves the strategic work to law enforcement”

Stacy Stephens, VP of KnightScope



**“Aido is an artificially intelligent, voice-activated personal-assistant (...) that can feel touch and even display information”**

Forbes



“Sentrian’s goal is to keep patients healthy and happy at home”

Sentrian



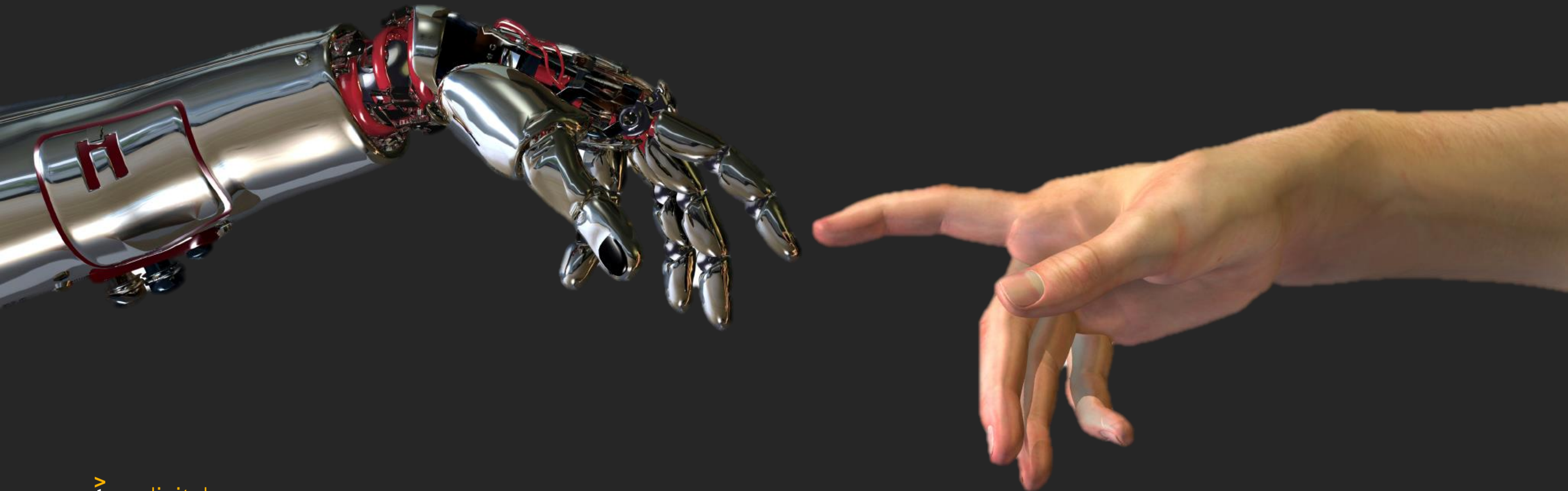
# “NAO robot goes to school to help kids with autism”

Aldebaran Robotics



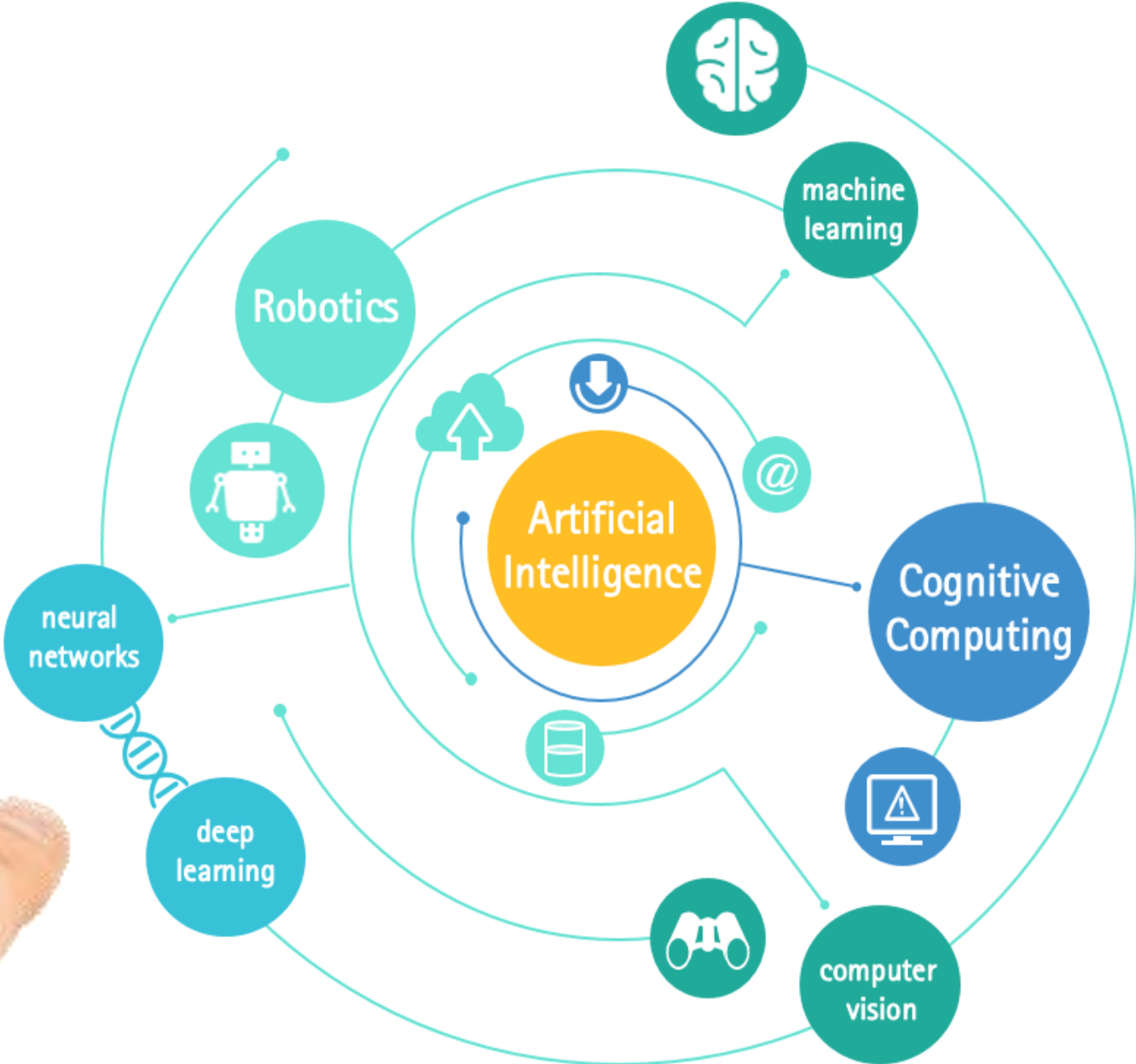


# WHAT IS ? ARTIFICIAL INTELLIGENCE



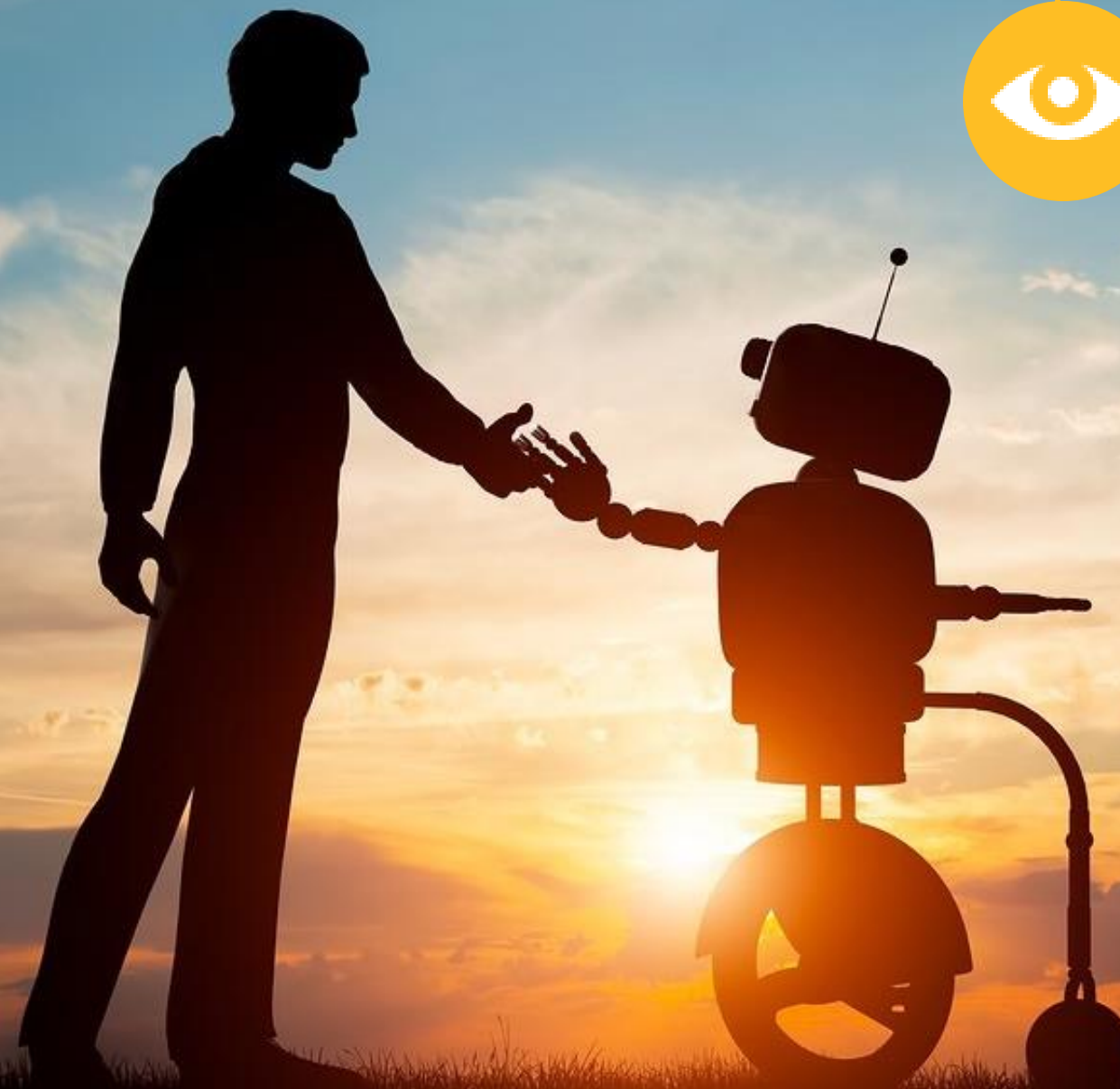
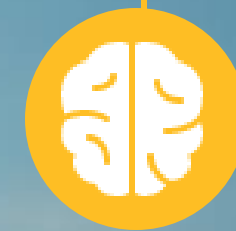


#buzzwords



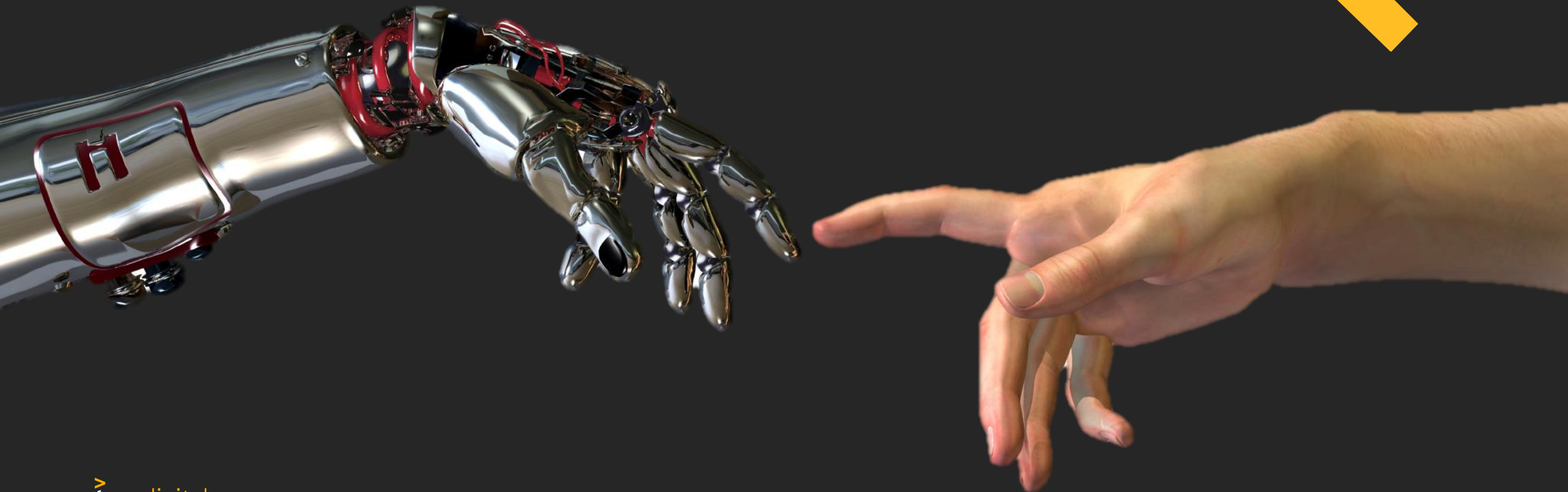
“Artificial Intelligence refers to multiple technologies that can be combined in different ways to **sense, comprehend and act**”

Accenture

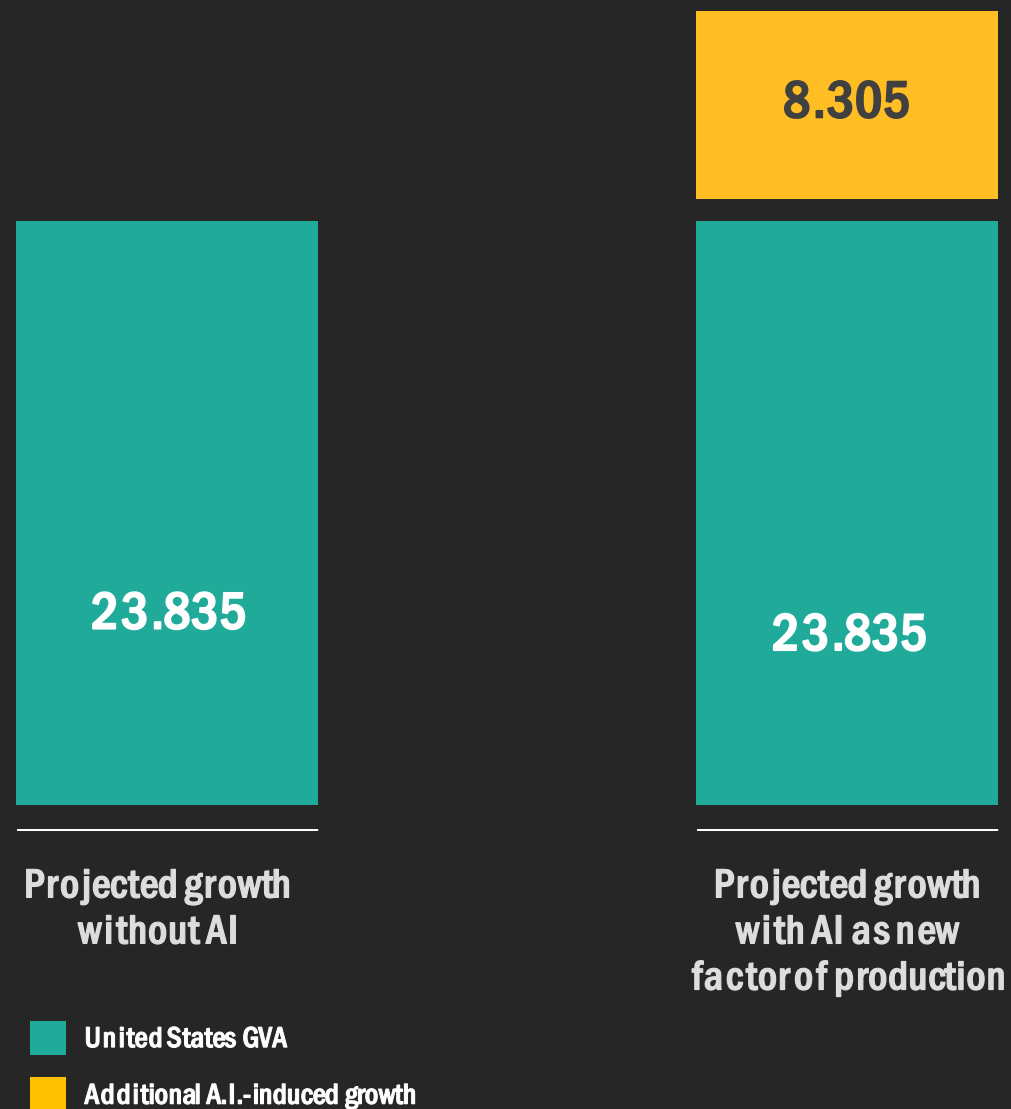


**WHAT DOES A.I.  
MEAN FOR US ?**

the new factor of production  
 $Y = F(K, L, N, AI)$



## US Growth Value added in 2035 (US\$ billion)



Source: Accenture and Frontier Economics

As **new** factor of production, A.I. can lead to significant growth opportunities...

$$Y = F(K, L, N, AI)$$

# ... evidenced by higher GDP growth rates and labor productivity



**~2x**

Annual economic  
Growth rates



**37%**

(Up to) Boost in labor  
productivity

Source: Accenture and Frontier Economics

**A.I. patents all time  
5x more than in 2006**

**A.I. startups in US  
increased 20x in 4 years**

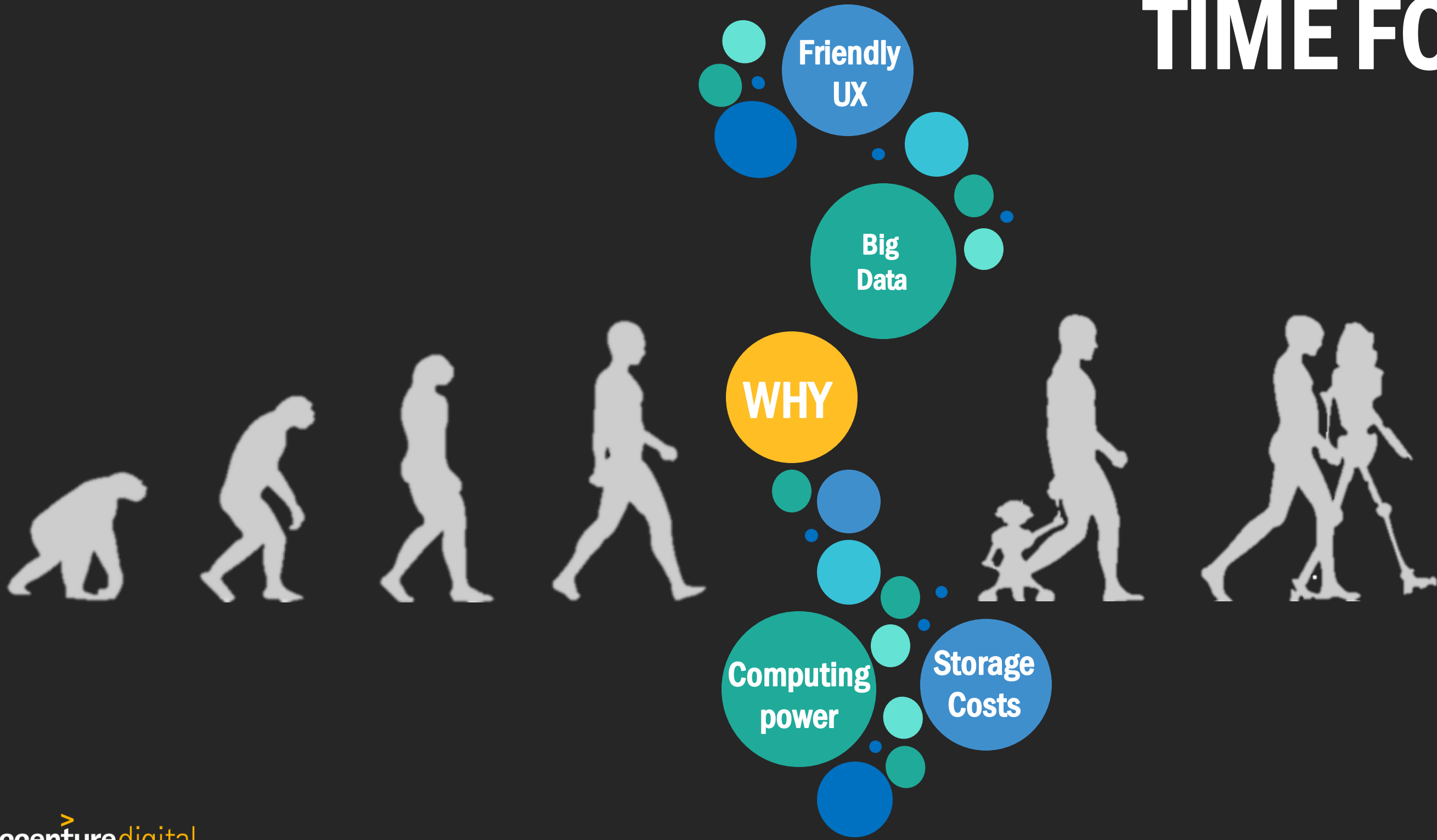
**A.I. venture capital investment  
triples to \$2.5 billion**

**A.I. industry will be  
tetra million in 2050**

# **A.I. IS GENERATING MASSIVE INVESTMENTS & ATTENTION**



# NOW IS THE TIME FOR A.I. !



# NOW IS THE TIME FOR A.I.



## Friendly user interfaces

Tensorflow, CNTK,  
caffe, torch, etc.



## Exponential growth of data

**50 x** more data  
in 2020 than in 2010



## Virtually unlimited computing power in cloud

**\$70** billion in public cloud  
computing in 2015



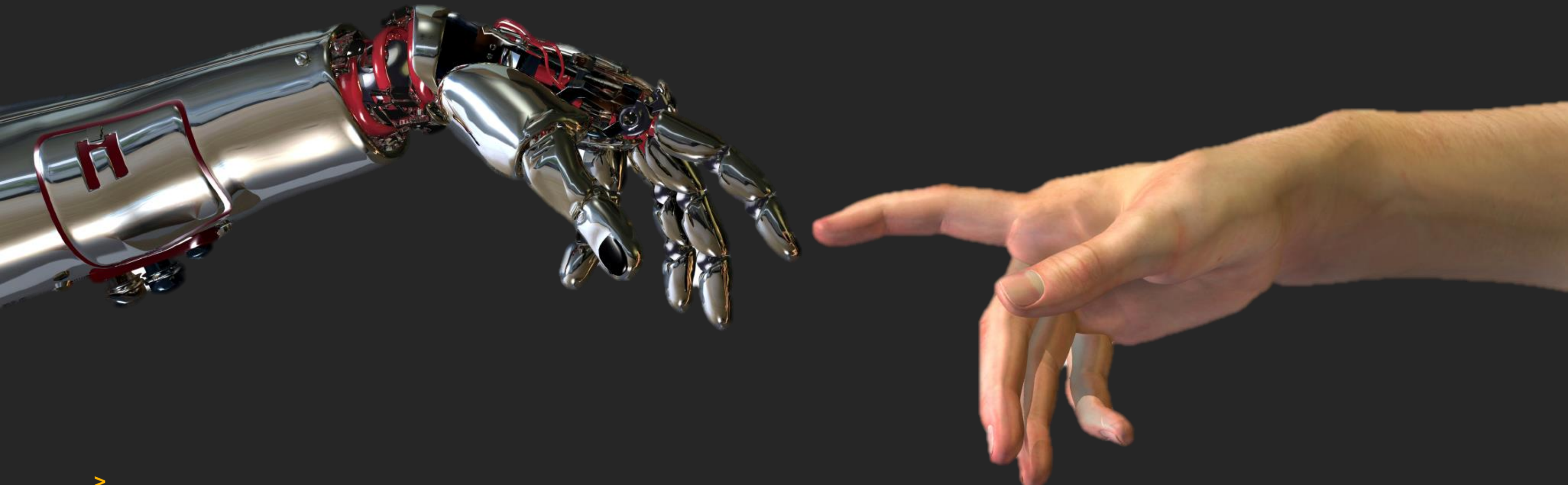
## Decreasing cost of storage

**\$3.5** mm/gb\* in 1980  
**\$0.03** mm/gb in 2015

\*Per gb of hard disk storage



# WHAT WILL THE FUTURE LOOK LIKE ?





Prepare the next generation

Encourage AI-powered regulation

Address the redistribution effects



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