Artificial Intelligence

the game changer

27th 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”
“NAO robot goes to school to help kids with autism”

Aldebaran Robotics
WHAT IS ARTIFICIAL INTELLIGENCE?
“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)

- Projected growth without AI: 23.835
- Projected growth with AI as new factor of production: 23.835

Additional A.I.-induced growth: 8.305

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

\( \sim 2 \times \) 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 tetrabillion in 2050
NOW IS THE TIME FOR A.I.
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- **Friendly user interfaces**
  - Tensorflow, CNTK, caffe, torch, etc.

- **Exponential growth of data**
  - 50x 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
George Philip Gouveia

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