

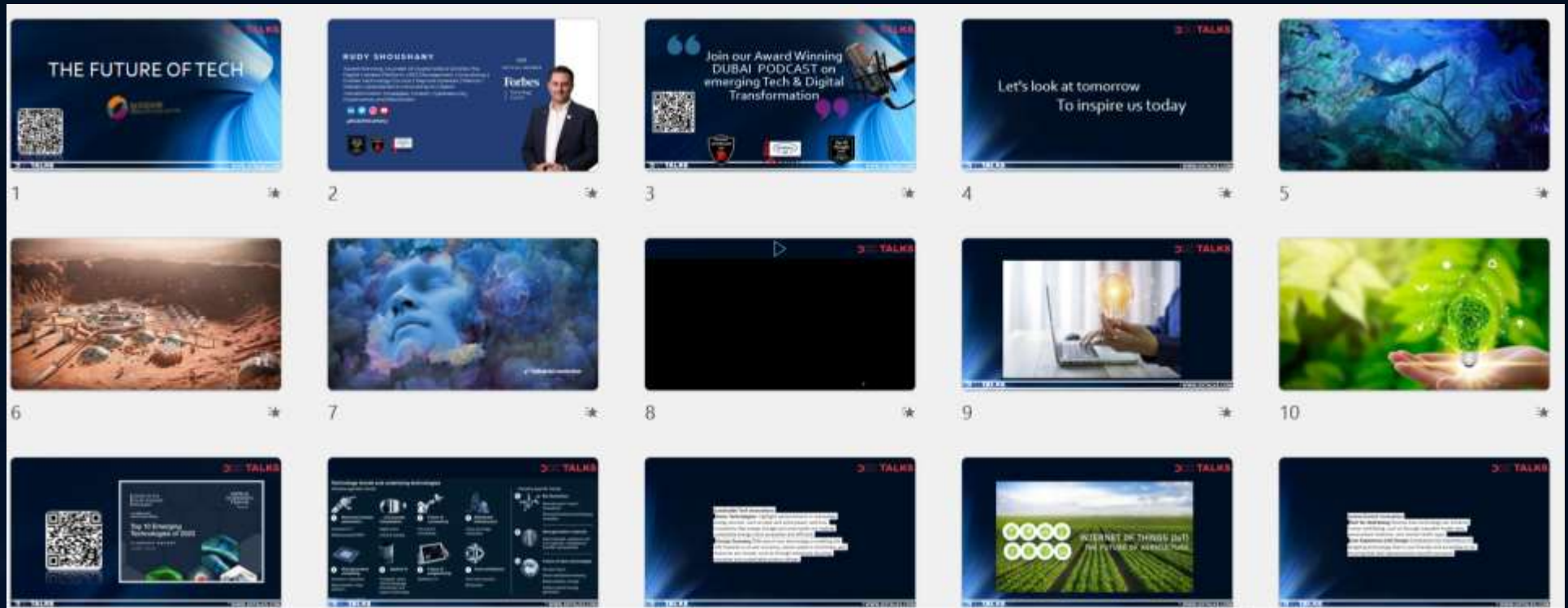


Shared Prosperity Dignified Life



# Inspirational AI Trends and Success Stories

# Download the presentation



Let's look at tomorrow  
To inspire us today



4<sup>th</sup> industrial revolution





GENERATIVE AI WILL BE THE STEAM ENGINE OF  
THE FOURTH INDUSTRIAL REVOLUTION

**Healthcare**

**Manufacturing**

**Agriculture**

**Climate Change**

**Finance**

**Marketing**

**Behaviors**

**Security**

**Transportation:**

**Education**

**Business**

**Telecom**

**Energy**





Centre for the  
Fourth Industrial  
Revolution

WORLD  
ECONOMIC  
FORUM

In collaboration  
with Frontiers Media

# Top 10 Emerging Technologies of 2023

FLAGSHIP REPORT  
JUNE 2023



**Technology trends and underlying technologies**

Industry-agnostic trends



**1** **Next-level process automation...**

Industrial IoT<sup>1</sup>  
Robots/cobots<sup>2</sup>/RPA<sup>3</sup>



**2** **... and process virtualization**

Digital twins  
3-D/4-D printing



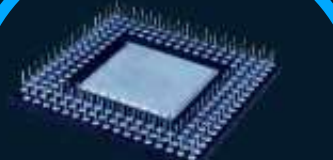
**3** **Future of connectivity**

5G and IoT connectivity



**4** **Distributed infrastructure**

Cloud and edge computing



**5** **Next-generation computing**

Quantum computing  
Neuromorphic chips (ASICs<sup>4</sup>)



**6** **Applied AI**

Computer vision, natural-language processing, and speech technology



**7** **Future of programming**

Software 2.0



**8** **Trust architecture**

Zero-trust security  
Blockchain


Industry-specific trends



**8** **Bio Revolution**

Biomolecules/"-omics"/biostystems

Biomachines/biocomputing/augmentation



**9** **Next-generation materials**

Nanomaterials, graphene and 2-D materials, molybdenum disulfide nanoparticles



**10** **Future of clean technologies**

Nuclear fusion  
Smart distribution/metering  
Battery/battery storage  
Carbon-neutral energy generation



**The contribution of AI to the global economy is projected to hit \$15.7 trillion by 2030.**

Source: Proxzar.ai, "How AI Can Be Used To Streamline Assorted Business Processes"

[www.PredictableProfits.com](http://www.PredictableProfits.com)

McKinsey  
& Company

Generative AI - GEN AI has the potential to generate \$2.6 trillion to \$4.4 trillion in value across industries

**The US\$320 billion impact of AI  
for the Middle East**

# NVIDIA'S SIZE

IS LARGER THAN GERMANY'S ENTIRE STOCK MARKET

\$2.7T

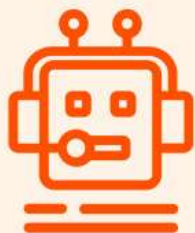


\$2.5T





## ANI vs. AGI vs. ASI



### Artificial narrow intelligence (ANI)

Designed to perform specific tasks



### Artificial general intelligence (AGI)

Can behave in a human-like way across all tasks



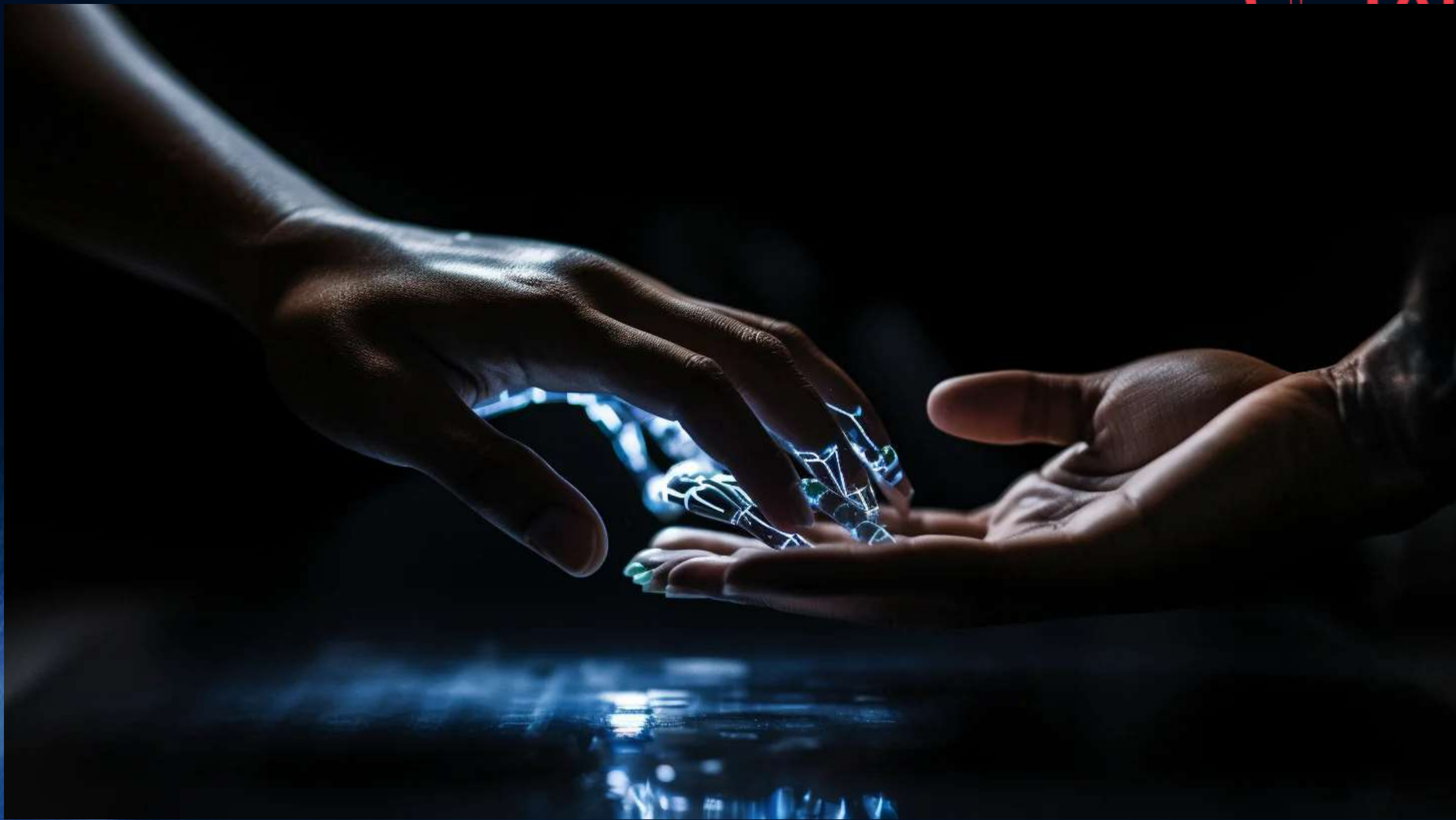
### Artificial super intelligence (ASI)

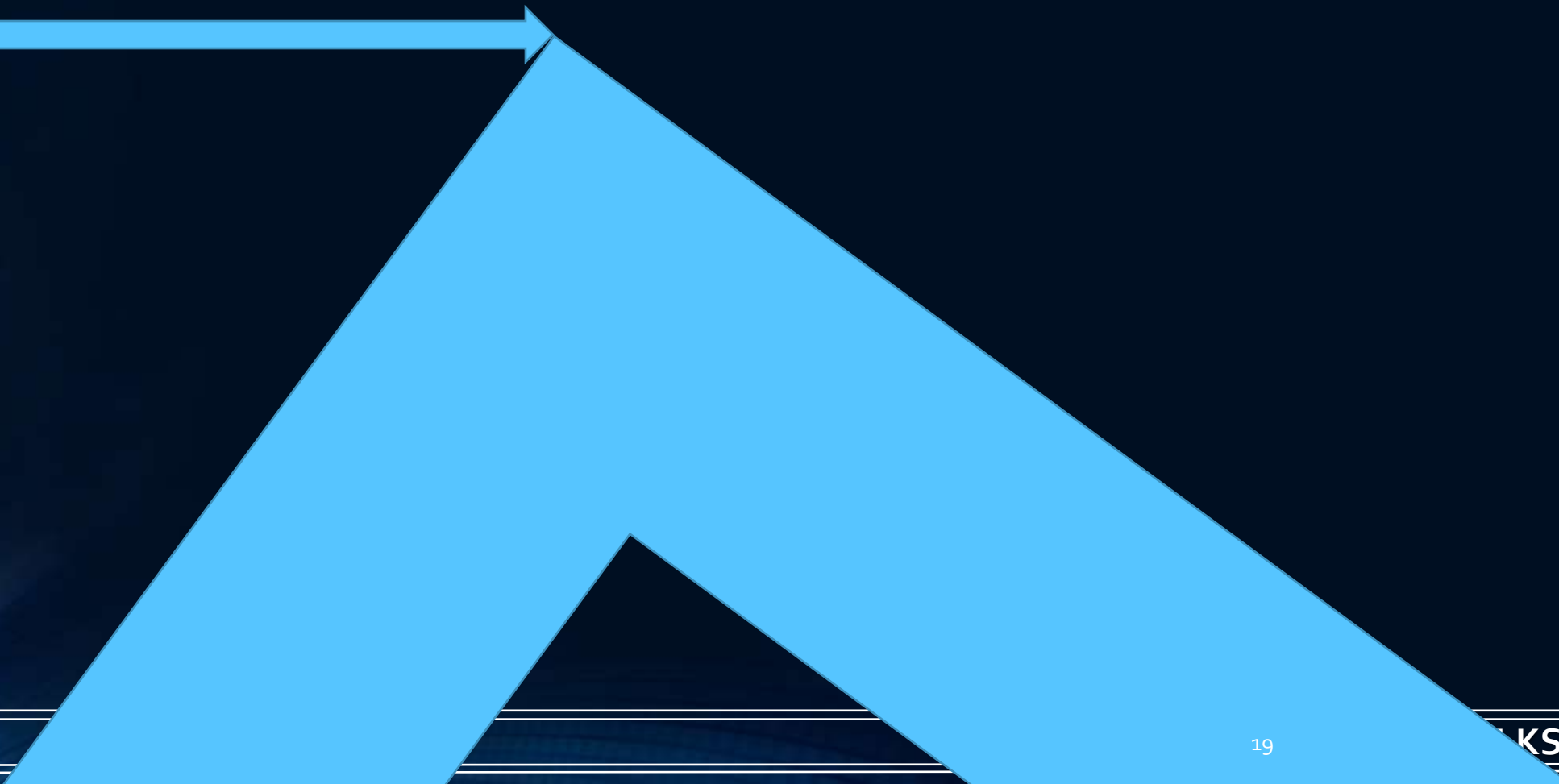
Smarter than humans—the stuff of sci-fi

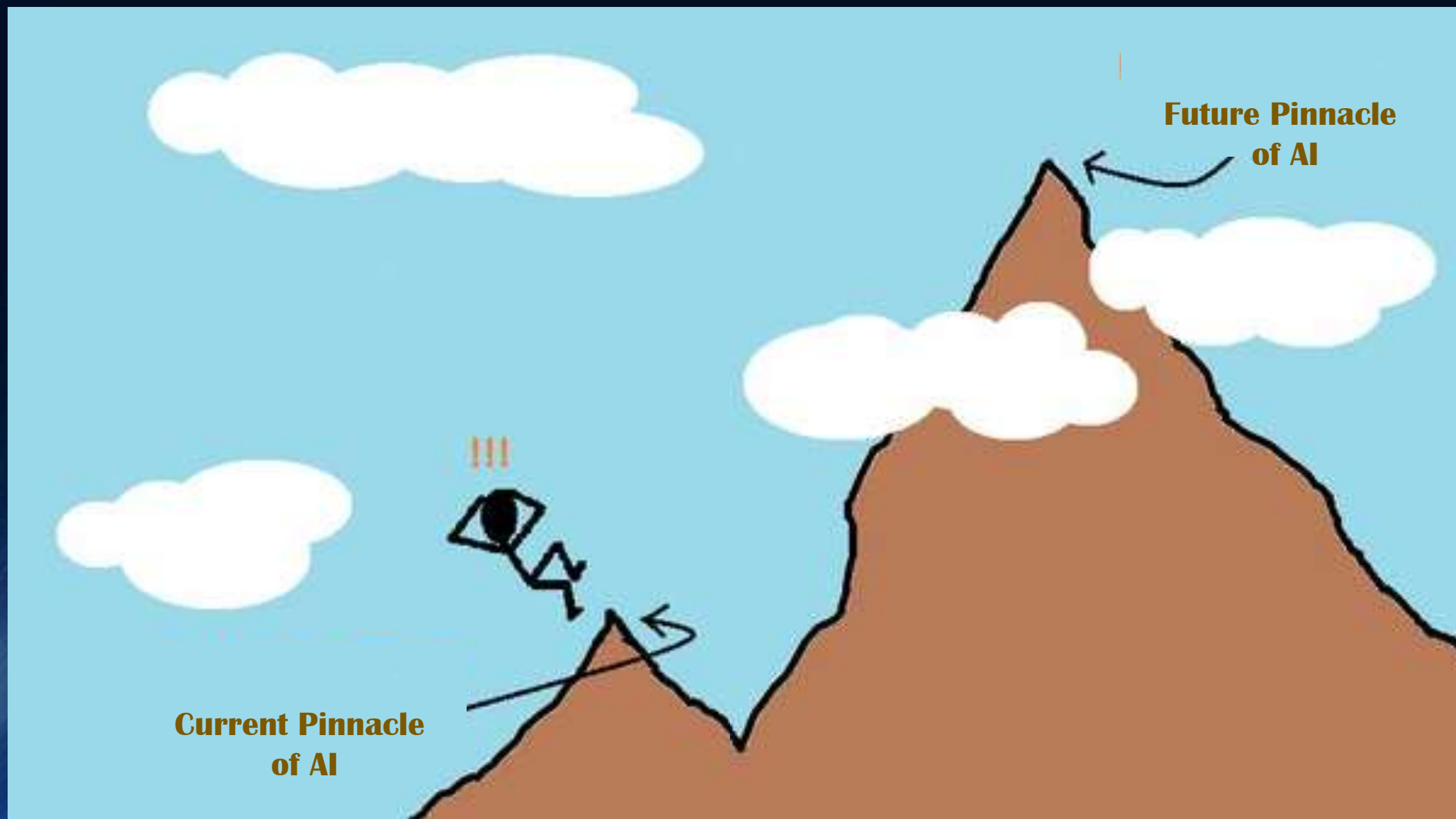
# INNOVATION











**Current Pinnacle  
of AI**

**Future Pinnacle  
of AI**

## Emerging opportunities

- **AI Integration into Everyday Life**
- **AI and Healthcare**
- **AI and Finance**
- **AI and Retail**
- **AI and Manufacturing**
- **AI and Education**
- **AI and Transportation**
- **AI and Climate Change**



A stylized white wireframe figure of a person in a dynamic pose, set against a dark purple background. The figure is composed of interconnected white dots and lines, forming a mesh-like structure. A bright, glowing light trail emanates from the figure's right arm, extending towards the right side of the image. The overall aesthetic is futuristic and digital.

# THE ETHICS OF ARTIFICIAL INTELLIGENCE



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