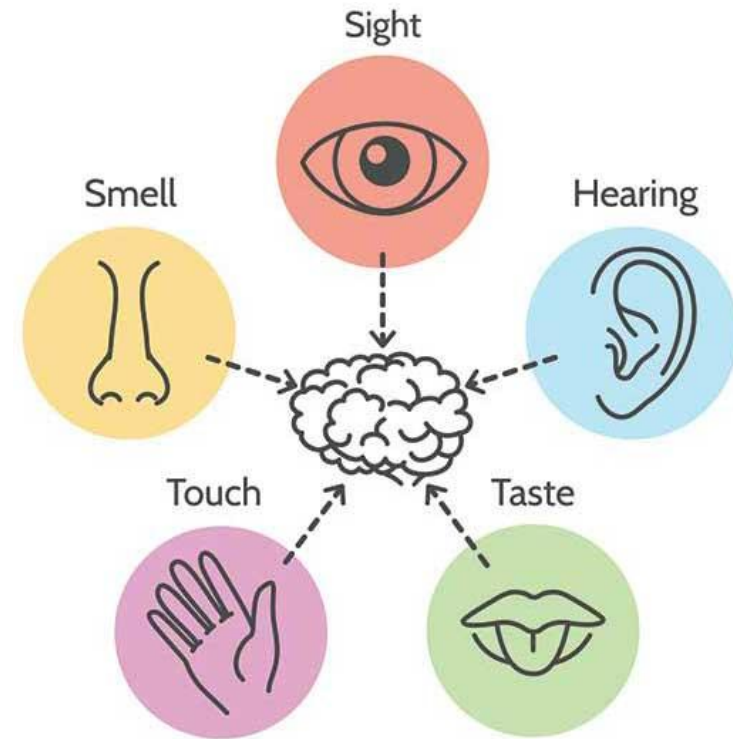
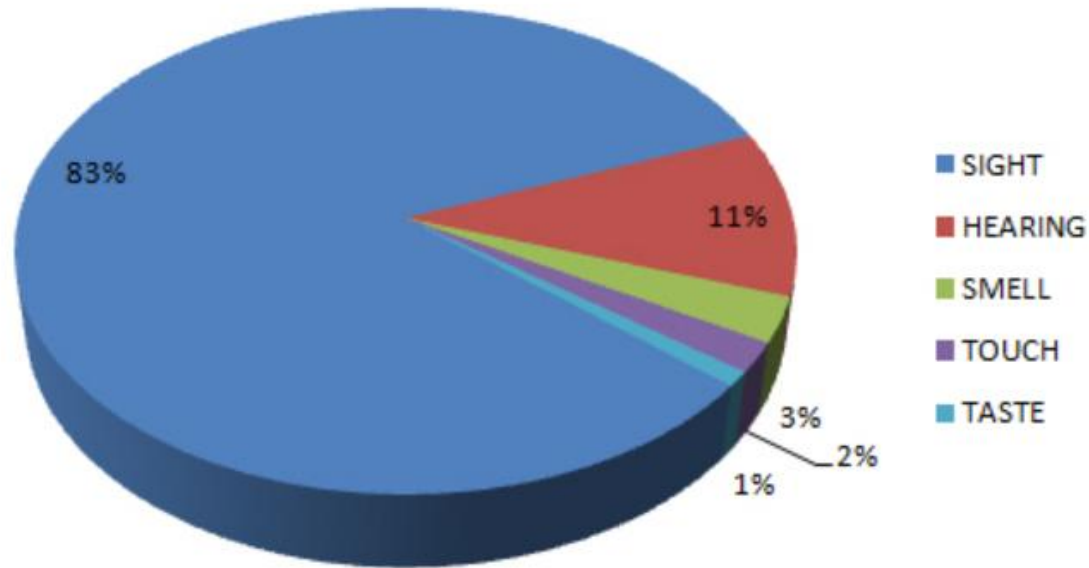


Enhanced Visual AI (EVAI) Techniques and Their Applications

视觉AI技术增强及其应用

Introduction of Enhanced Visual AI (EVAI)

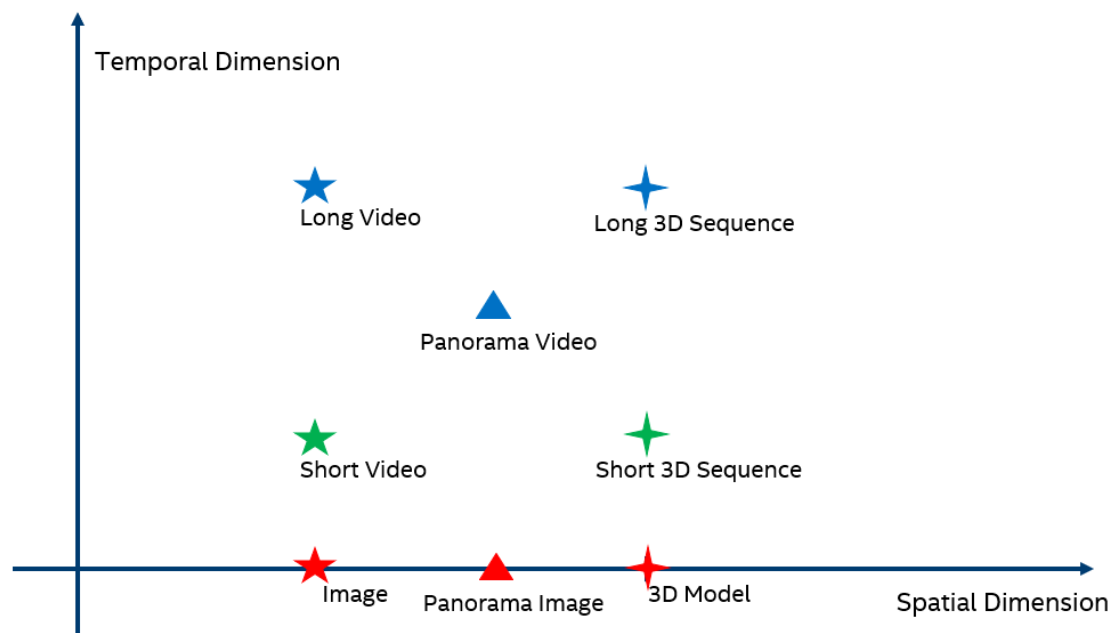
➤ Visual Data



Visual Data is responsible for most of the information from five senses

Introduction of Enhanced Visual AI (EVAI)

➤ Visual Data



Visual Data



Image



3D Model



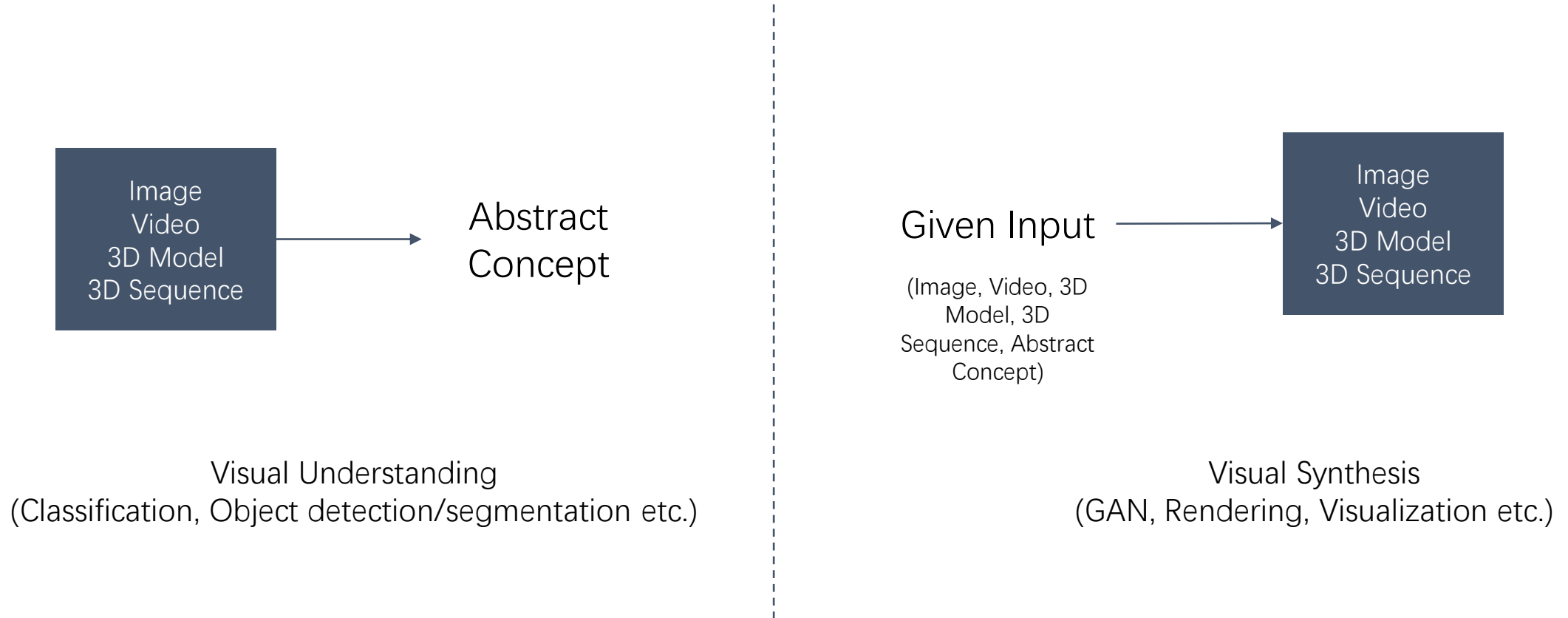
Video



3D Sequence

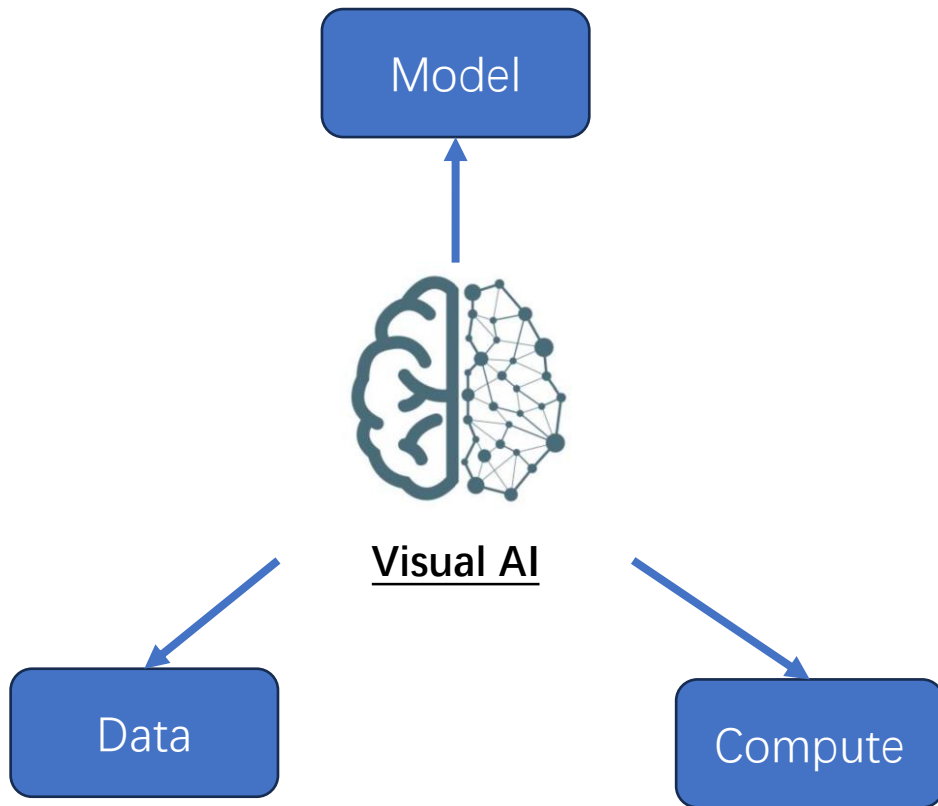
Introduction of Enhanced Visual AI (EVAI)

- Visual AI (Visual Understanding and Visual Synthesis)

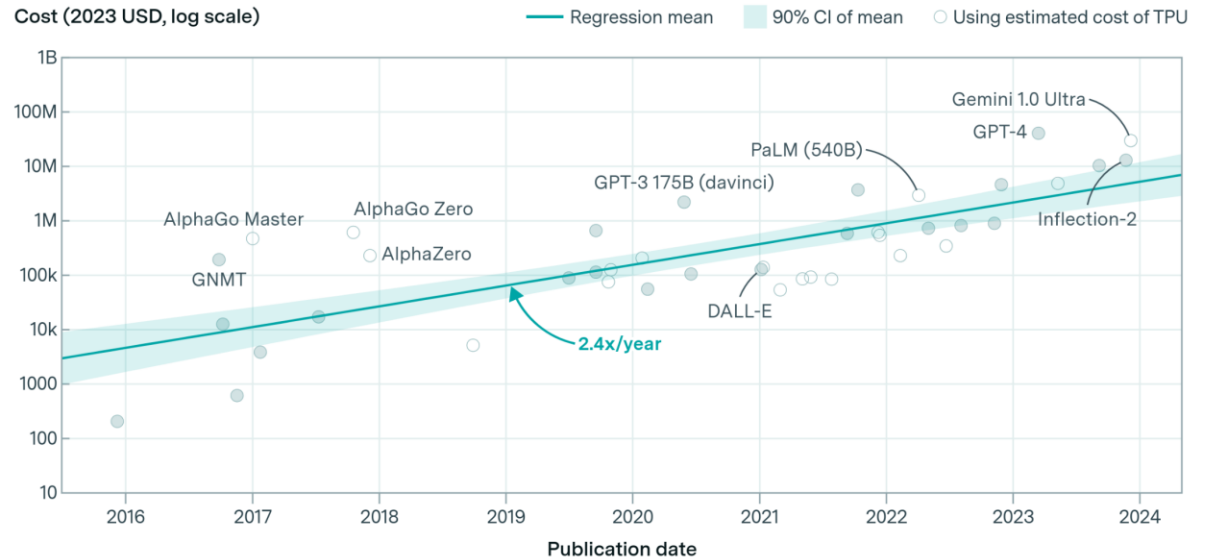


Introduction of Enhanced Visual AI (EVAI)

➤ Enhanced Visual AI (EVAI)



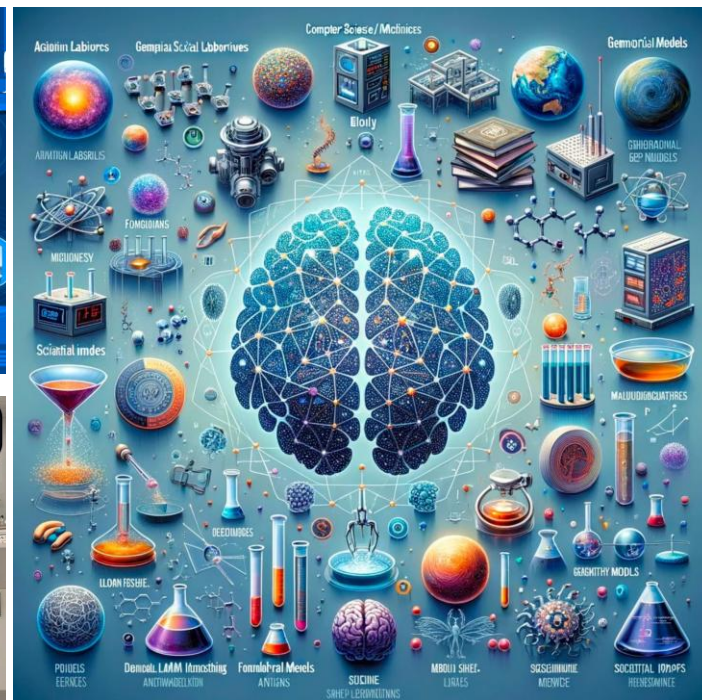
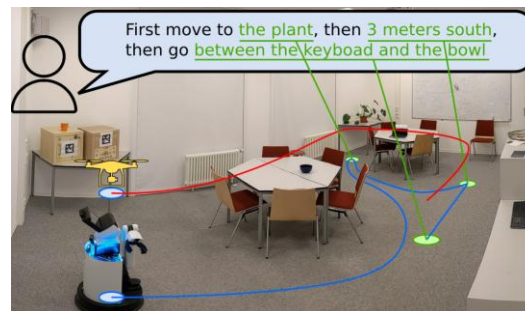
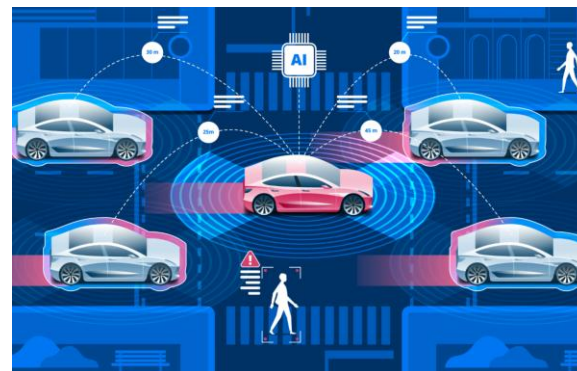
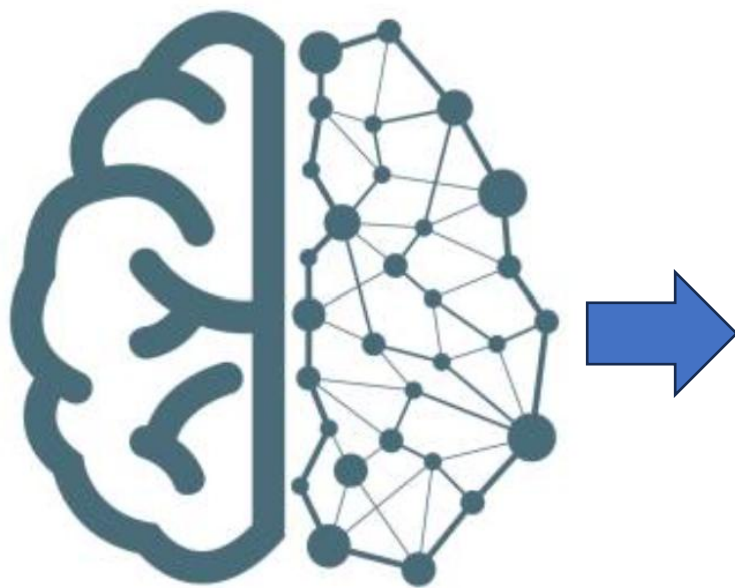
Amortized hardware and energy cost to train frontier AI models over time EPOCH AI



The cost of training frontier AI models has grown by a factor of 2 to 3x per year for the past eight years.

Enhancing Visual AI instead of Training Visual AI

Introduction of Enhanced Visual AI (EVAI)



Enhanced Visual AI (EVAI)

Small VAI Model

Large Vision Model (VM)

Large Vision-Language Model (VLM)

Neural Field

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Visual AI Applications

Digital Human

Autonomous Driving

Robotic Manipulation

Robotic Navigation

AI for Science

...