

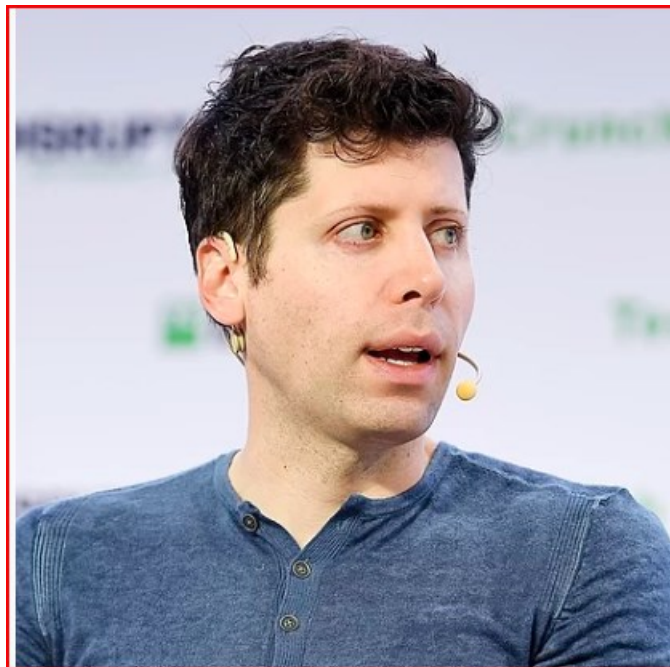
## **Sam Altman: An unprecedented \$7 TRILLION Investment in AI** *AI: SAFE USAGE, STATE of TECHNOLOGY in INDIA and the WORLD*

February 27, 2024

February 27, 2024: AMBITIOUS PLANS. **Sam Altman**, the CEO of **OpenAI**, called for overhauling the global semiconductor industry by addressing the supply-and-demand problem, which is arising with AI chips. **Altman** aims to increase global chip-building capacity so that the potential of AI in transforming every one's workplace, home and entertainment, and, spare-time activities, can be realized.

Altman believes the world needs more AI infrastructure including **fab capacity**, **energy**, and **data centers**. He thinks that building massive-scale AI infrastructure is crucial for **economic competitiveness**.

**Artificial General Intelligence** (AGI) stands for a hypothetical type of AI that can do any task, human beings can do. Sam has turbocharged interest among his team at OpenAI in developing products like ChatGPT and SORA, moving towards AGI.



***Samuel Harris Altman*** (b. April 22, 1985), CEO, **OpenAI**

OpenAI CEO Sam Altman seeks to raise up to \$7 trillion for creating a resilient supply chain, to build **chip foundries** and **robust AI infrastructure**. The amount easily dwarfs the market cap of any company—including Microsoft, which recently hit \$3.1 trillion and surged past Apple as America's most valuable company.

The Financial Times has reported that OpenAI's revenues have surpassed \$2 billion on an annualized basis for 2023.

According to a study by the **McKinsey Global Institute**, AI has the potential to boost Global **Gross Domestic Product** (GDP) by up to \$13 Tn by 2030. A PwC's study indicates that **AI could create up to 1.4 million new jobs** in USA by 2030.

POTENTIAL IMPACT on INTEL: If Altman's plans for 'a humongous increase in the supply of AI semiconductor chips' and his vision of 'AI PCs and AI products in every home and office' succeed, it could mean big money for Intel. (Many companies, including Nvidia and Qualcomm, would also benefit through partnerships with Intel for packaging and wafer capacity.)

INVESTMENT: Altman is in talks with investors to raise trillions of dollars for this endeavor. For the chip venture, code-named "Tigris", Sam Altman was actively seeking investment for a new venture in the AI semiconductor market. The project would make available chips in a very large number, so that the progress in AI progress is not stymied by the shortage and high prices of semiconductor chips.

(The aim is not to challenge **Nvidia Corp.'s dominance** in the field of AI chips. Sam, probably, feels that the kind of investments required for increasing the supply of AI chips is beyond the capability of any one of today's technology companies, working alone.)

CONTROVERSY and DISMISSAL of SAM ALTMAN: Altman's ambitious pursuit of funding for Tigris raised eyebrows. OpenAI's Board, at that time, was cautious about the mis-use of the AI technology and was not in favor of a very fast development of AI products. The then Board accused Altman of "not consistently being candid in his communications with the Board."

It is said that the Board suspected that Sam Altman was seeking funding from the Sheikh of UAE and from China. The then Board did not think that the Sheikh or China had any commitment to the welfare of the world. The public intellectuals of the world have been worried that AI might be used for ensuring that people start thinking, on their own, along the path chosen by the financiers of AI R&D. As a result, Sam Altman was removed as the CEO of OpenAI, and the then Board expressed a lack of confidence in his leadership.

APPOINTMENT of INTERIM CEO: **Mira Murati**, OpenAI's CTO, stepped in as interim CEO.

IMMEDIATE IMPACT: Altman's departure blindsided employees and sent shockwaves through Silicon Valley. To bring back Sam to OpenAI, the Board of OpenAI was re-constituted.

BOARD CHANGES: **Greg Brockman**, the chair of the board, announced his departure but retained his position as OpenAI President.

#### ----STATE of TECHNOLOGY in **Artificial Intelligence (AI)**----

**Artificial Intelligence (AI)**, once a buzzword, has now become an integral part of our lives. It powers facial recognition, language translation, spam filters, and even medical diagnostics.

Language and image recognition capabilities of AI systems relative to human performance have improved rapidly. Today, an AI system can be as good as a human being for

- Handwriting recognition (2003),
- Image recognition (2014),
- Speech recognition (2015),
- Reading comprehension (2017),
- Language understanding (2020).

Global AI Landscape: As of October 2021, 44 countries have their own national AI strategic plans, signaling their commitment to the global AI race. The US, Singapore, and the UK top the Government AI Readiness Index, while much of the developing world lags behind.

#### ----USING AI SAFELY and AVOIDING DANGERS of AI----

AI is a technology, which can help make the lives of ordinary people more meaningful and interesting, it can also be mis-used to convert human beings to zombies.

**So, OpenAI, Elon Musk, Rishi Sunak and many public intellectuals thought that world-wide agreements many public intellectuals thought that world-wide agreements should be worked out, before the world invests heavily in AI.** The mandate of OpenAI includes a strong focus on Ethical Considerations. Thus, when

rational, sentient robots are developed, OpenAI was required to work for humanity's wider benefit.

However, AI technology is developing fast. Moreover President, Xi Jinping has decided to make China the leader in AI. **China's policy** is to have a **unified national AI strategy** for developing **AI products for use by the civil society**, for use by **the Security Agencies for regulation and surveillance of its citizens** and for **integrating AI into its military armaments and strategy**.



*November 2, 2023: Conversations between PM Rishi Sunak and Elon Musk*

The REASONS for the DISPARITY between the GLOBAL SOUTH and the WEST and CHINA:

- **Economic Capacity:** Developed countries have an edge due to greater economic capacity. They can invest significantly in AI research and development.
- **Urgent Priorities:** Developing nations grapple with urgent priorities like education, healthcare, and feeding their populations. Digital transformation often takes a back seat.
- **Limited Benefits:** Developing nations benefit less from AI advancements, and, lose more by missing out on resilience-building against natural disasters.

To ensure that digital divide between developed and developing countries can be bridged, **international structures for conveying the benefits of AI to the whole of the world** will have to be built, by not permitting shortages of AI chips to develop, so that human beings, everywhere on the earth, can lead a richer and more

meaningful life. The investment of trillions of dollars in AI technologies will guarantee that the entire humanity can use AI technologies and products, as these are developed.

#### ----AI DEFINITIONS and APPLICATIONS----

AI encompasses **Machine Learning** and **Deep Learning**. Machine learning suits smaller, organized datasets, while deep learning tackles complex real-world problems (e.g., predicting diseases from X-rays).

Modern AI applications, from Google Translate to robot-assisted surgery, rely on **deep neural networks**.

#### ----INDIAN PERSPECTIVE----

India has IISc, 16 IITs, 31 NITs and a large number of State Technological Universities and Private Universities. It also has at Bangalore a **Center for AI and Robotics (CAIR)**, established in 1986. CAIR has been headed by the top-most experts, with **Dr. M. Vidyasagar** as its Director for more than a decade (26 June 1989-28 Mar 2000) during its formative years.

In India, a focused approach for **developing AI products for use of the society is missing**, even though India has a large number of AI experts in different organizations.

The Research and Development of products for Indian Armed Forces is shrouded in secrecy. As far as [www.DiGiNews360.com](http://www.DiGiNews360.com) knows, India has not integrated AI into its systems for War.

#### ----Altman's Background----

Sam Altman is no stranger to innovation. He learnt to code at the age of 8. He joined Stanford University but started working in AI companies before he could graduate. He is known for LOOPT (<https://en.wikipedia.org/wiki/Loopt>), Y COMBINATOR ([https://en.wikipedia.org/wiki/Y\\_Combinator](https://en.wikipedia.org/wiki/Y_Combinator)) and **OpenAI**.

Sam has been a driving force behind **OpenAI**'s groundbreaking work. Recently, **OpenAI** introduced SORA, a program that turns text prompts into video clips using AI4.

Sam Altman's vision extends beyond research in AI. He aims to shape the future of technology infrastructure. His plans have sparked curiosity, controversy, and anticipation in the tech industry, and the world watches as he strives to redefine the landscape of AI.

*Venture capitalist and OpenAI investor **Vinod Khosla** labeled Altman a "once-in-a-generation CEO."*

*Rewind AI CEO **Dan Siroker** said he was "one of the true missionaries" in a world full of mercenaries.*

***Paul Graham**, the founder of famed Silicon Valley **startup accelerator Y Combinator**, who appointed Altman as his successor in 2014, described him as a "master of AI and persuasion."*

#### **References:**

1. [OpenAI CEO Sam Altman stands to net millions as Reddit goes public \(cnbc.com\)](https://www.cnbc.com/2024/02/22/openai-ceo-sam-altman-stands-to-net-millions-as-reddit-goes-public.html)  
<https://www.cnbc.com/2024/02/22/openai-ceo-sam-altman-stands-to-net-millions-as-reddit-goes-public.html>
2. [Legendary chip architect Jim Keller responds to Sam Altman's plan to raise \\$7 trillion to make AI chips — 'I can do it for less than \\$1 trillion' | Tom's Hardware \(tomshardware.com\)](https://www.tomshardware.com/tech-industry/artificial-intelligence/jim-keller-responds-to-sam-altmans-plan-to-raise-dollar7-billion-to-make-ai-chips)  
<https://www.tomshardware.com/tech-industry/artificial-intelligence/jim-keller-responds-to-sam-altmans-plan-to-raise-dollar7-billion-to-make-ai-chips>

**Note 1.:** Please see "AI: Military Applications: Ethical Considerations" dated January 1, 2024 at <https://diginews360.com/ai-military-applications-ethical-considerations/> . [www.DiGiNews360.com](http://www.DiGiNews360.com) has brought information about the AI Safety Conference, hosted by UK's Rishi Sunak government.

**Note 2.:** Please see “OpenAI copes with a likely Implosion: Altman is back” dated November 22, 2023 at <https://diginews360.com/openai-copes-with-a-likely-implosion-altman-is-back/> . [www.DiGiNews360.com](http://www.DiGiNews360.com) has brought information about the Board of OpenAI and its re-constitution.

**Note 3.:** Please see “AI Chips: Nvidia and others” dated October 9, 2023 at <https://diginews360.com/ai-chips-nvidia-and-others/> . [www.DiGiNews360.com](http://www.DiGiNews360.com) has brought information about the Board of OpenAI and its re-constitution

**Note 4.:** Please read “ChatGPT: AI product being used by millions: Costs to OpenAI” dated October 1, 2023 at <https://diginews360.com/chatgpt-ai-product-being-used-by-millions-costs-toopenai/>. [www.DiGiNews360.com](http://www.DiGiNews360.com) brings to you information about the LLM products of Chinese companies like **Baidu’s Ernie Bot**, **ByteDance’s Doubao AI chatbot**, **Institute of Automation at the Chinese Academy of Sciences’s Zidong Taichu 2.0**. It also discusses the possibility of countries in the Global South like India, Nigeria and Brazil to develop their own Large Language Models.

**Note 5.:** Please see “US Warned: AI makes PLA Stronger: Is India Listening” dated July 26, 2023 at <https://diginews360.com/us-warned-ai-makes-pla-stronger-is-india-listening/>. [www.DiGiNews360.com](http://www.DiGiNews360.com) discusses the use of **facial recognition and computer vision** highly effectively for **surveillance of its citizens, particularly in sensitive regions like Xinjiang and Tibet**, where non-Hans are in good numbers. It is also rapidly integrating new AI technologies into its warfare systems.

**Note 6.:** Please read about “AI: PM Narendra Modi: “We welcome all Collaborations”” of June 11, 2023 at <https://diginews360.com/ai-pm-modi-wewelcome-all-collaborations/>.

**Note 7.:** On pages 2-3 of “AI...’Special Relationship’ with USA” at <https://diginews360.com/aijohnson-honours-list-special-relationship-with-usa/> about **UK PM Rishi Sunak’s USA Visit** of June 8, 2023.

**Note8.:** Please read “Required: Regulation of AI Products” dated March 31, 2023 at <https://diginews360.com/required-regulation-of-ai-products-march-31/> .