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Imagine if it were possible to have tokenized TCP/IP[1] in the 1980s...

(1) TCP/IP stands for Transmission Control Protocol / Internet Protocol and powers the modern internet

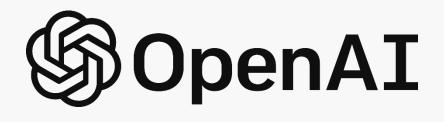# History Lesson: 1990s AOL is Today's OpenAI

OpenAI is following the AOL playbook, aiming to monopolize control of a transformative technology

- AOL charged a $19.95 monthly fee for access to the internet [1]

- Acted as a gatekeeper, limiting access to information

- Was unable to scale and rapidly shrunk due to the decline of dial-up and rise of broadband
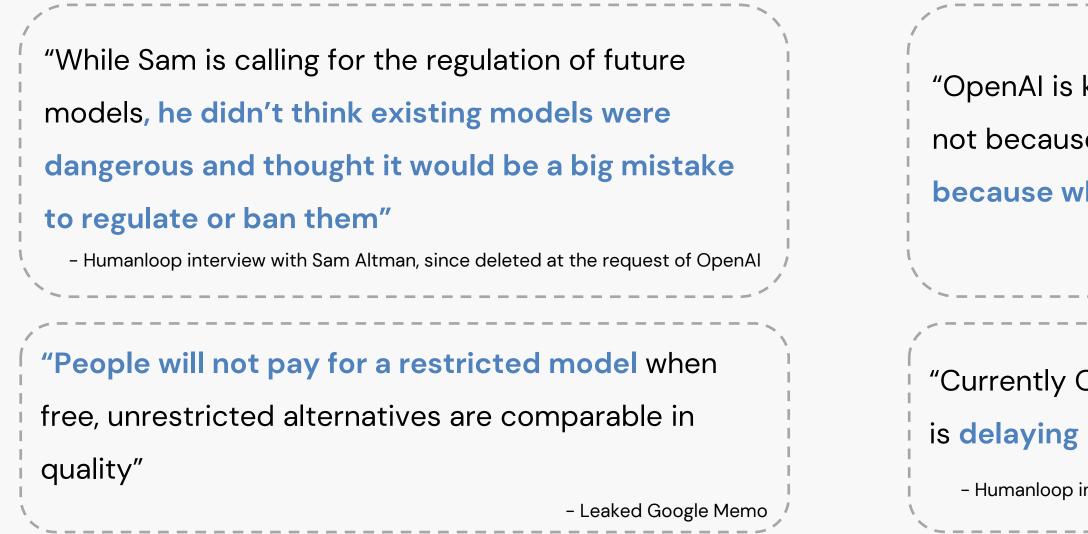
- OpenAI currently charges a $19.99 monthly fee for access to GPT-4

- Acts as a gatekeeper, limiting access to information

- Early signs of trouble scaling: recent outage provided an 'Error: Access Denied' message to some users [2]

Decentralized AI will Lap Centralized AI

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✓ *The model output gap between centralized and open-source AI is rapidly closing*

✓ *A leaked internal Google memo admitted fears that* ***Google has no moat and neither does OpenAI***

✓ *OpenAI's stated aim is to minimize the cost of intelligence,* ***yet they are currently spending "millions of dollars a day" to run ChatGPT servers***[1] *– these costs will skyrocket as the world moves to multi-modality*

"While Sam is calling for the regulation of future models**, he didn't think existing models were dangerous and thought it would be a big mistake to regulate or ban them"**

– Humanloop interview with Sam Altman, since deleted at the request of OpenAI

"OpenAI is keeping the architecture of GPT-4 closed not because of some existential risk to humanity but **because what they've built is replicable"**
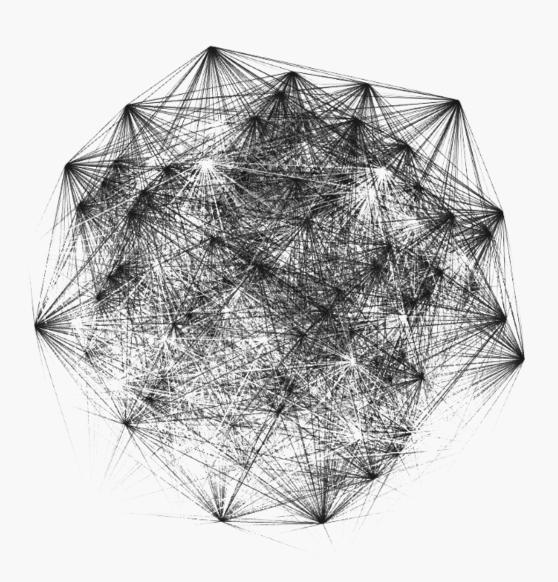
– Dylan Patel and Gerald Wong, SemiAnalysis

"People will not pay for a restricted model when free, unrestricted alternatives are comparable in quality"

– Leaked Google Memo

"Currently OpenAI is extremely GPU-limited and this is **delaying a lot of their short-term plans"**

– Humanloop interview with Sam Altman, since deleted at the request of OpenAI

Bittensor is Bringing AI into the Internet Era

2023 is the new 1983, and Bittensor is leading the transition from the mainframe era to the internet era

✓ Founded in 2016, Bittensor is a network where computers validate the work that other computers contribute to the network – **the work that is most valuable to the collective will be rewarded**

✓ **Bittensor is a catalyst to the open-source AI movement**, as individuals and smaller research labs now have a direct financial incentive for fine-tuning open foundational models
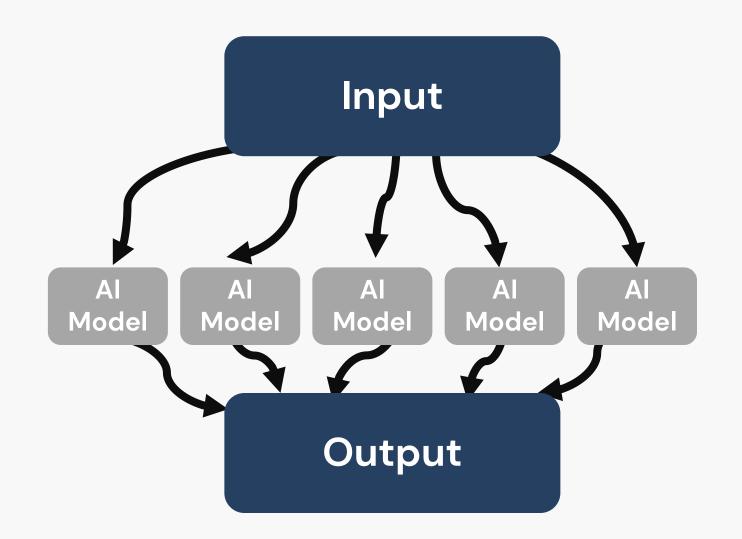
✓ **Zero architectural constraint**: Bittensor only measures outputs and is indifferent to which models are used or where compute is sourced

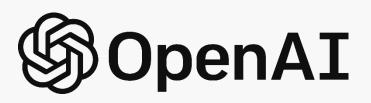✓ Bittensor is **a library of machine intelligence that continuously grows** and shares knowledge amongst peers

Bittensor vs. Centralized AI
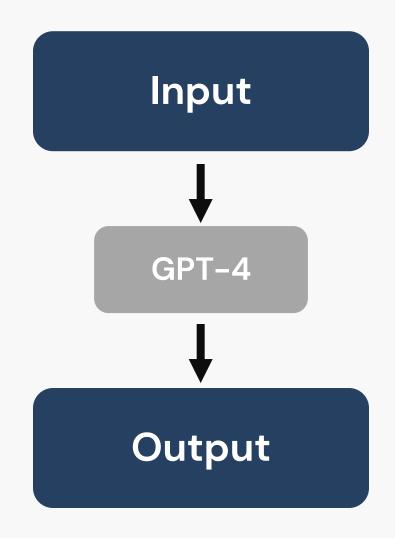
✓ *The only thing bigger than OpenAI, Google or any centralized alternative is all of them combined*

✓ *Models compete to produce the best outputs, driving down inferencing costs dramatically[1]*

Powering the Entire Network via the TAO Token

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- **Fair Launch:** January 2021 TAO fair launch

- **AI Bitcoin:** leveraging the proven tokenomics of Bitcoin, Bittensor offers permissionless ownership and harnesses digital incentives to reward participants for their contributions

- **Reward and Access:** TAO rewards miner contributions pro rata based on quality of intelligence produced, and simultaneously allows access to the network

✓ By incentivizing active involvement and rewarding valuable contributions, **TAO encourages the development and sharing of cutting-edge AI**

✓ The potential value of TAO is **limited only by the imagination of businesses leveraging the power of AI**
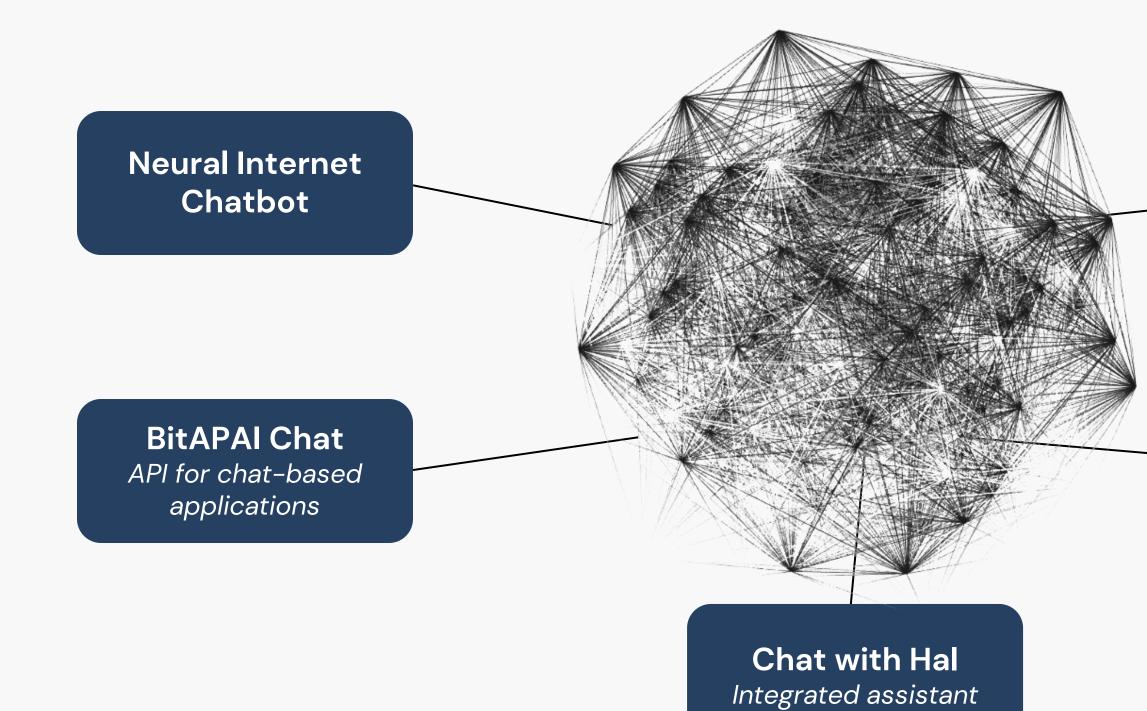
Selected Institutional Investors who have acquired TAO

POLYCHAIN CAPITAL

DIGITAL CURRENCY GROUP

FIRSTMARK

DISTRIBUTED GLOBAL

An Emerging App Layer

Much like Ethereum in 2016, a powerful application layer is emerging on top of Bittensor

Neural Internet Chatbot

TAO Studio
Image generation

BitAPAI Chat
API for chat-based applications

Reply Tensor
Twitter bot that provides opinions & summarizes info

Chat with Hal
Integrated assistant

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2023-2024 Roadmap

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- **Sudo Decentralization:** the Opentensor Foundation aims to slowly release control of the protocol as the network matures and reaches steady-state

- **Subnetworks:** Bittensor runs multiple self-contained economic markets incentivizing access to different forms of intelligence. Dataset collection, model training, stock market prediction systems are among several subnetworks that will be released over the next twelve months

- **API Access:** enabling easier access for enterprises looking to leverage the Bittensor network

- **Multi modality**: providing text, image, video and numerical data functionality within the network

If you are interested in learning more about Bittensor, building with us or leveraging the network for your own use cases, please reach out:

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Who will own intelligence?