

Decentralized AI

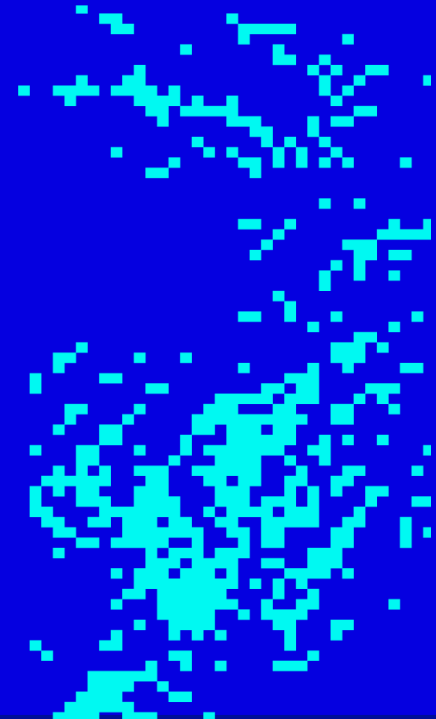
Bringing user self-sovereignty back



Outline



- ❑ **Current AI landscape**
- ❑ **Centralized vs Decentralized AI**
- ❑ **ASI vs HSI**
- ❑ **User self-sovereignty and cognitive liberty**
- ❑ **Decentralized AI implementation**

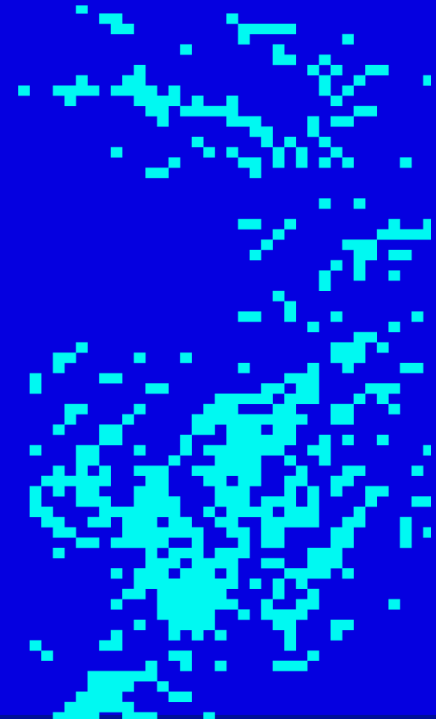


Current AI Landscape



- ❑ **AI has been around since the 90s in more narrow scopes**
- ❑ **Now reaching the tipping point of widespread adoption**
- ❑ **Acceleration in compute power availability and concentration of AI capabilities in the hands of few entities**
- ❑ **Decentralized alternatives still in the early stages**
- ❑ **Users lack the understanding around their data and privacy**

What is the path forward?



Centralized AI

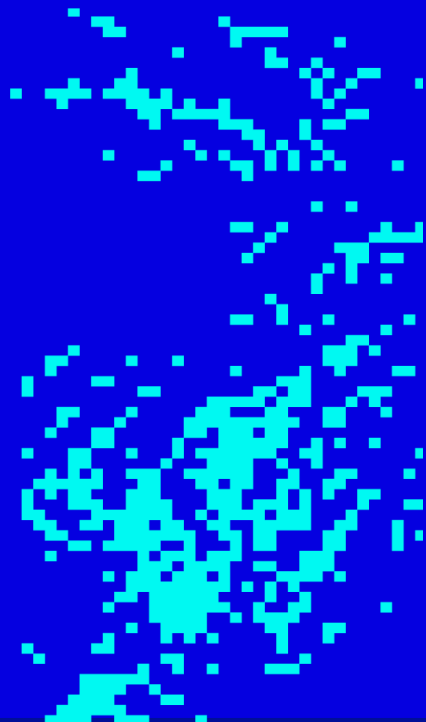
- ❑ **Dominated by large tech companies such as Google, OpenAI, Anthropic, Meta, etc.**
- ❑ **Data, compute power, development talent in the hands of few**

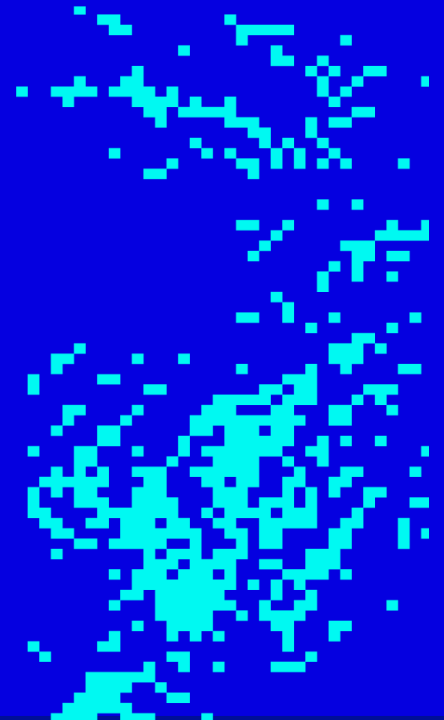
Advantages

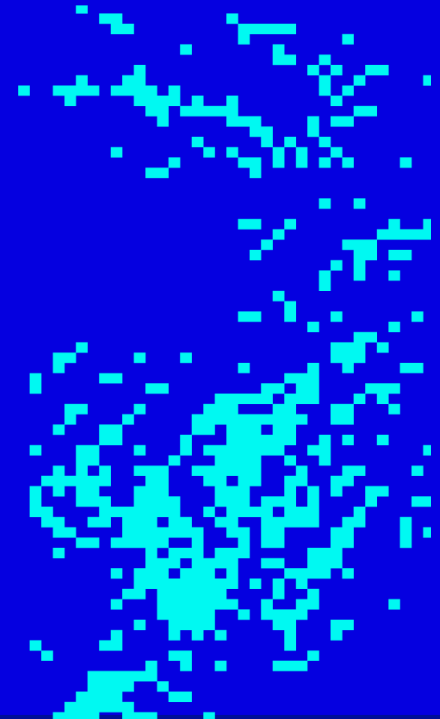
- ❑ **Economies of scale**
- ❑ **Access to data**
- ❑ **Rapid development**

Disadvantages

- ❑ **Data privacy concerns**
- ❑ **Monopoly over AI**
- ❑ **Risk of bias**







Decentralized AI



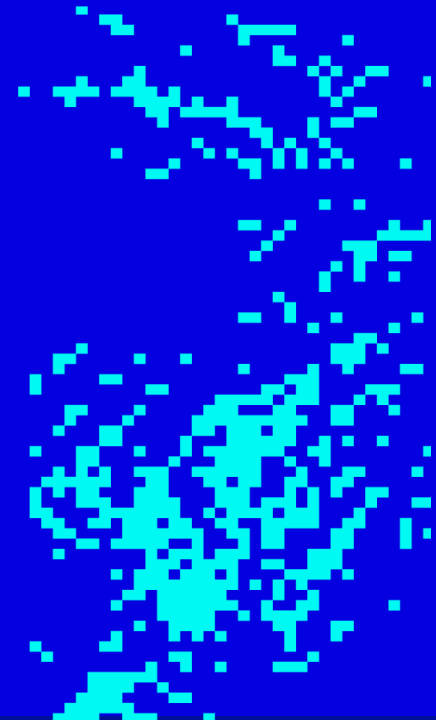
- ❑ **Removing single point of failure and adding transparency/verifiability**
- ❑ **Users are in control of their data**

Advantages

- ❑ **Control of data**
- ❑ **Enhanced data privacy**
- ❑ **Less potential for bias**

Disadvantages

- ❑ **Lower performance**
- ❑ **Slower coordination**
- ❑ **Lack of standardization**



User Self-Sovereignty



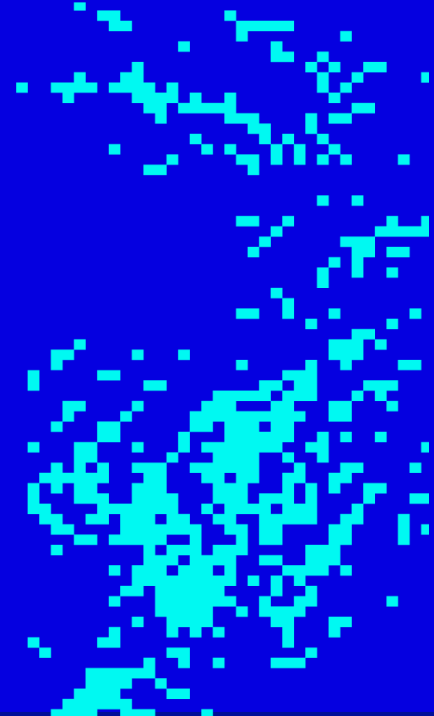
- ❑ **Data ownership with consent and individual control**
- ❑ **Transparency in use of data and AI decision making**
- ❑ **Personal data is valuable - user inclusion in the AI economy**

Ce-AI

- ❑ **Data breaches**
- ❑ **Surveillance and profiling**
- ❑ **Lack of transparency**

De-AI

- ❑ **User controlled data sharing**
- ❑ **Transparent decision-making**
- ❑ **Distributed governance**



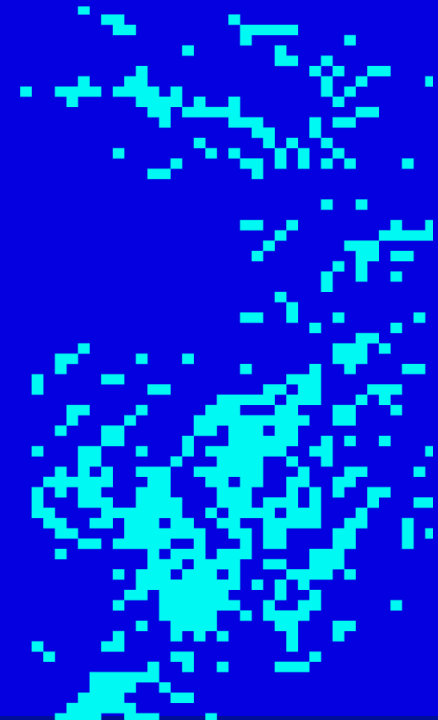
ASI vs HSI



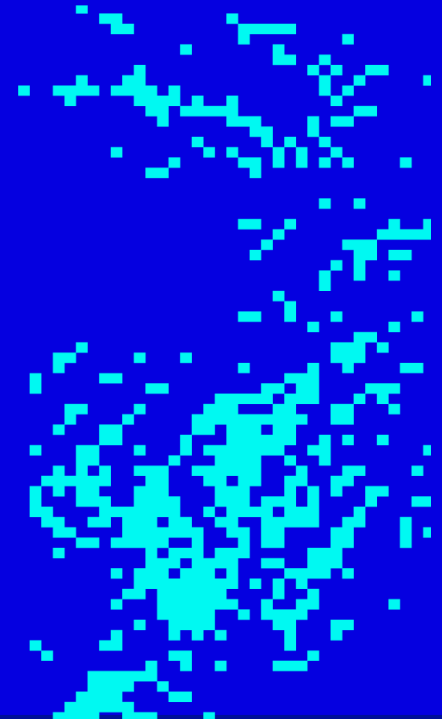
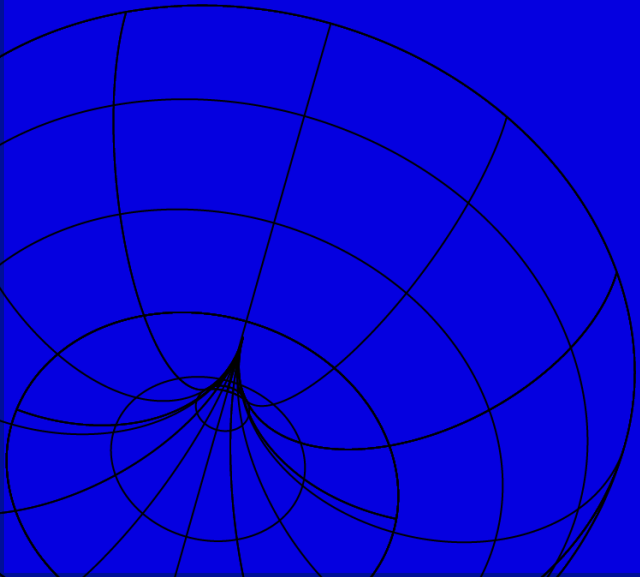
- ❑ **ASI becoming a reality faster than expected**
- ❑ **Fundamental changes to social and economic structures**

How to compete with machines?

- ❑ **HSI - Augmenting human intelligence with AI**
 - ❑ **Brain-computer interfaces (BCI)**
 - ❑ **AI-enhanced decision making**
 - ❑ **Learning and skill enhancement**



Who has access to your
thoughts?



Cognitive Liberty



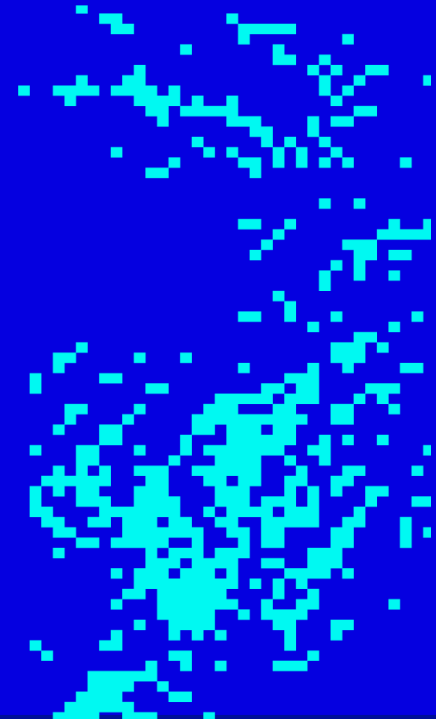
- ❑ Privacy and freedom of thought
- ❑ The right to control your own cognitive processes

Ce-AI

- ❑ Information manipulation
- ❑ Erosion of privacy and autonomy

De-AI

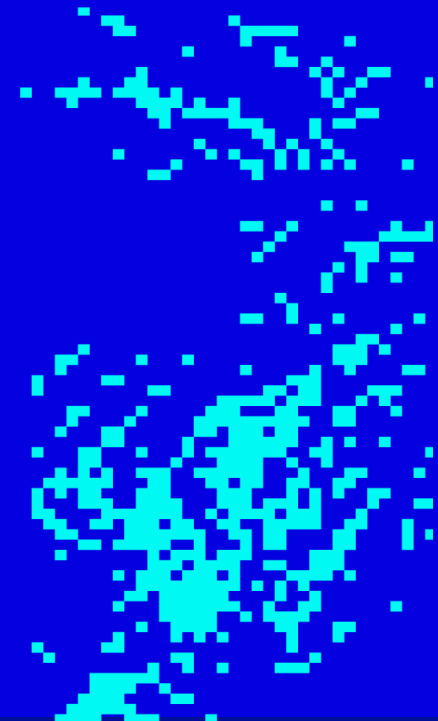
- ❑ Personalized AI assistants under user control
- ❑ Manipulation protection



De-AI Implementation



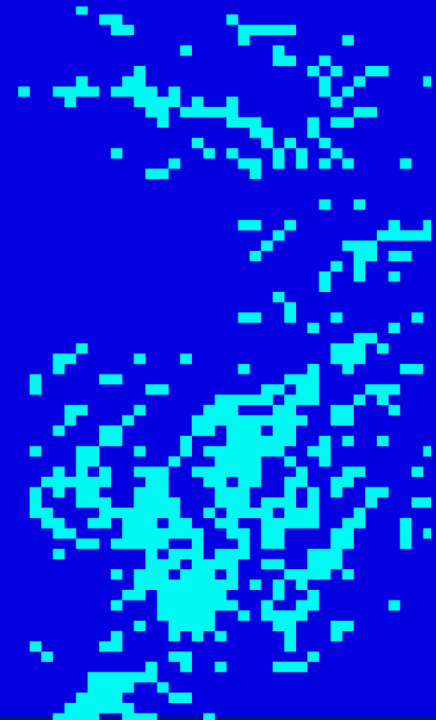
- ❑ **Collaborative development of AI models and datasets**
- ❑ **Blockchain based and privacy-preserving technologies for private data storage and verifiable compute**
- ❑ **Distributed governance of AI projects**
- ❑ **Challenges such as scalability, interoperability and ensuring data and model quality do exist but will be conquered**



Oasis - Privacy for Web3 & AI



- ❑ **Oasis is a public blockchain that enables private smart contract storage and private compute for the whole Web3 ecosystem through its confidential runtime powered by TEEs**
- ❑ **ROFL framework - Runtime OFF-chain Logic framework is the decentralized, private AI infrastructure that enables compute over private data, distributed verifiability of private compute and many other use cases.**



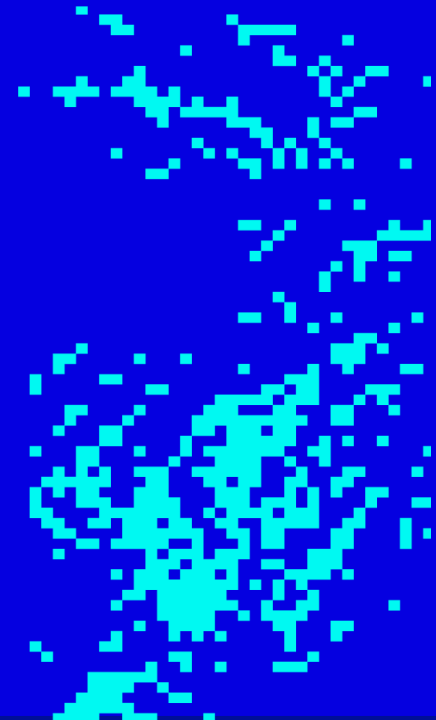
Conclusion

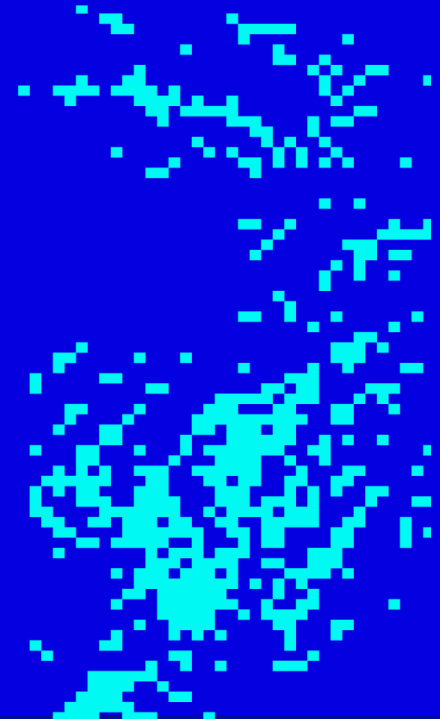


- ❑ **Shifting from centralized to decentralized AI**
- ❑ **Balancing ASI development with HSI empowerment**
- ❑ **Preserving cognitive liberty and self-sovereignty**



**An AI - augmented world where AI enhances human capabilities
without compromising autonomy and preserves human values and
diversity**



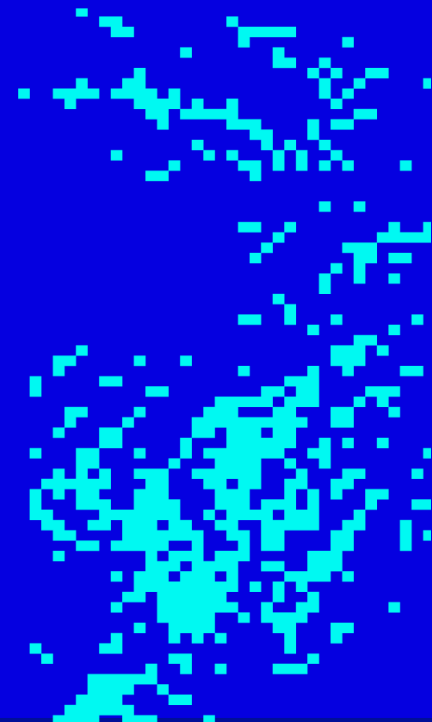


Get in touch

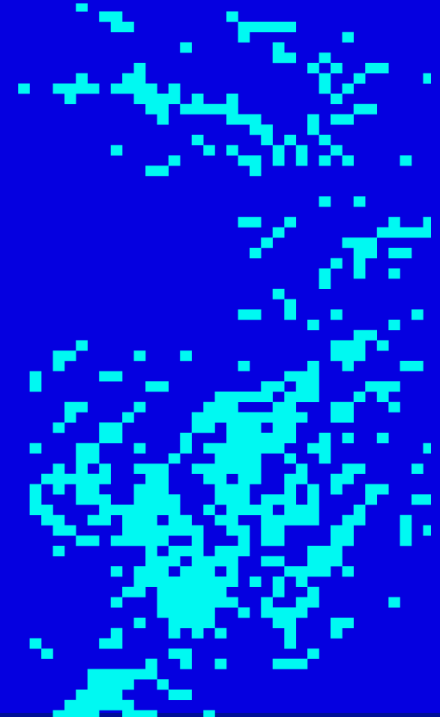
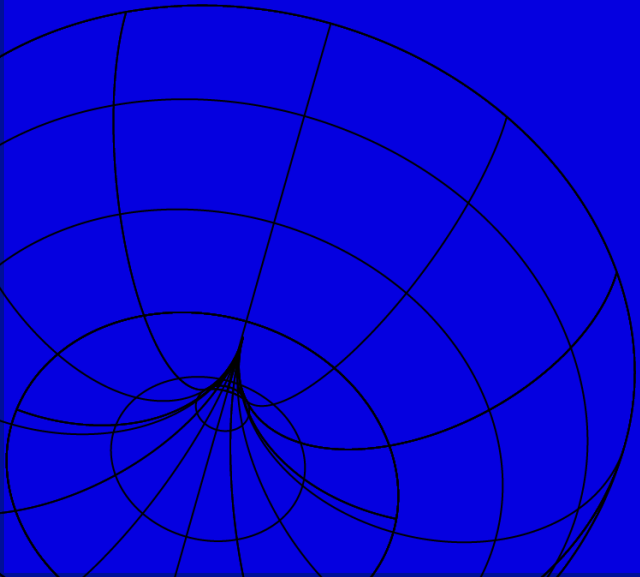


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Questions?





Thank you!

