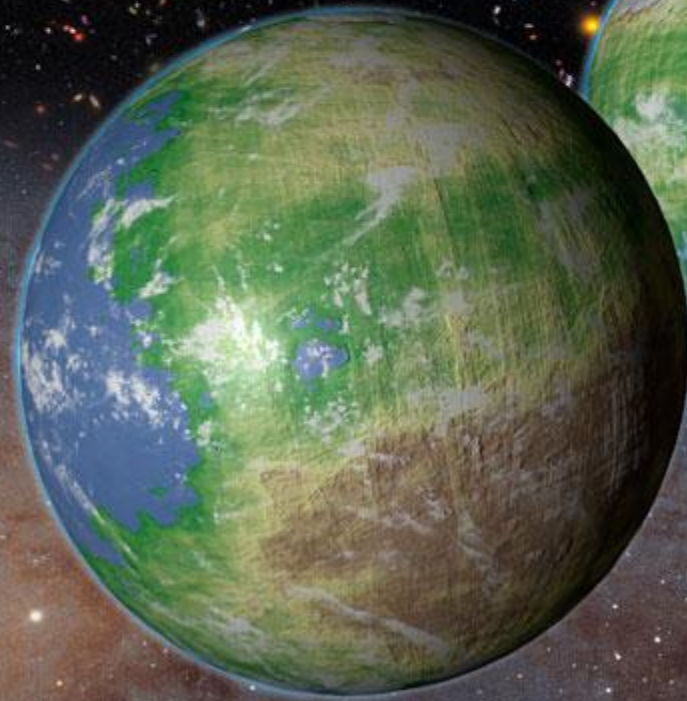


# Can You Get Past Your Meatbag Self to Embrace the Future? An AI Perspective



Trent McConaghy  
@trentmc0  
Berlin, June, 2017

# Threats To Humanity

Climate change





Nuclear war




# Asteroid strike



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www.earth2013.com

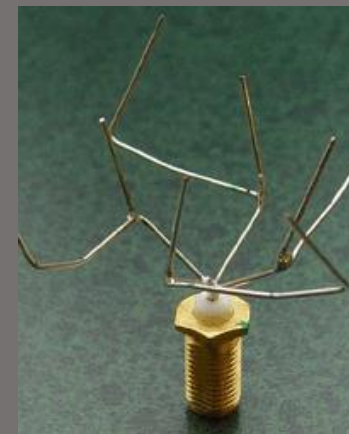
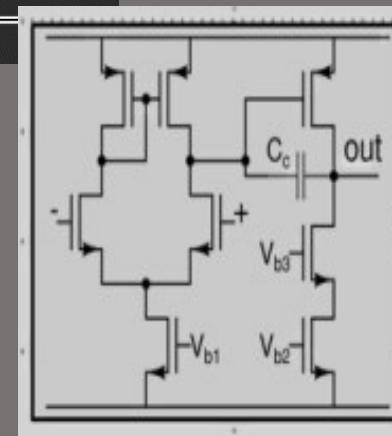
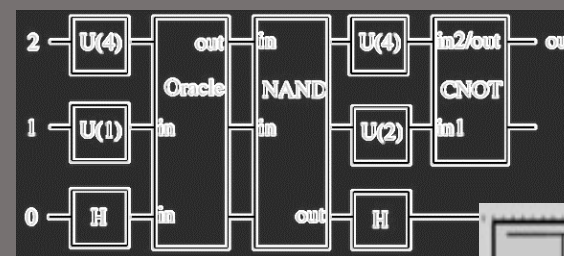
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Rising inequality



Als taking jobs...



...even "human"  
creative jobs

Rising inequality

Climate change

Asteroid strike

Threats

Nuclear war

AI taking jobs

Rising inequality

Climate change

Asteroid strike

Threats

*One more...*


Nuclear war

Als taking jobs

# On AGI & Blockchains

# AGI: Artificial *General* Intelligence

## Agents that sense, model, and act

 LOG IN | SIGN UP

LONGFORM ▾

REVIEWS ▾

VIDEO ▾

TECH ▾

CIRCUIT BREAKER ▾



SCIENCE ▾


ENTERTAINMENT ▾

CARS ▾

TL;DR ▾

FORUMS ▾


 


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COMMENTS

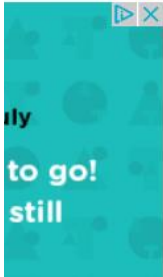
# Microsoft will now let anyone test their AI creations in Minecraft

By [Russell Brandom](#) on July 8, 2016 10:36 am [Email](#) [@russellbrandom](#)









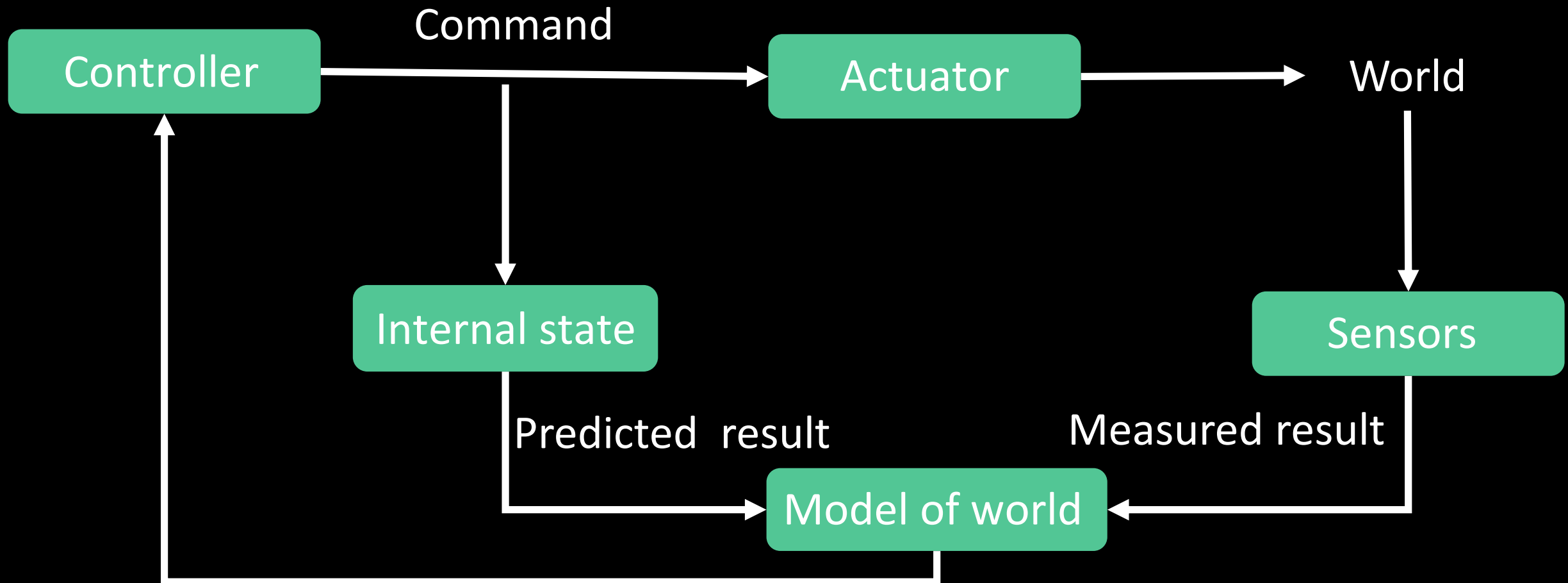
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# AGI: Artificial General Intelligence

“AI meets Feedback Control Systems”

Update internal state based on estimate of world state





# Blockchains: Databases in the Sky



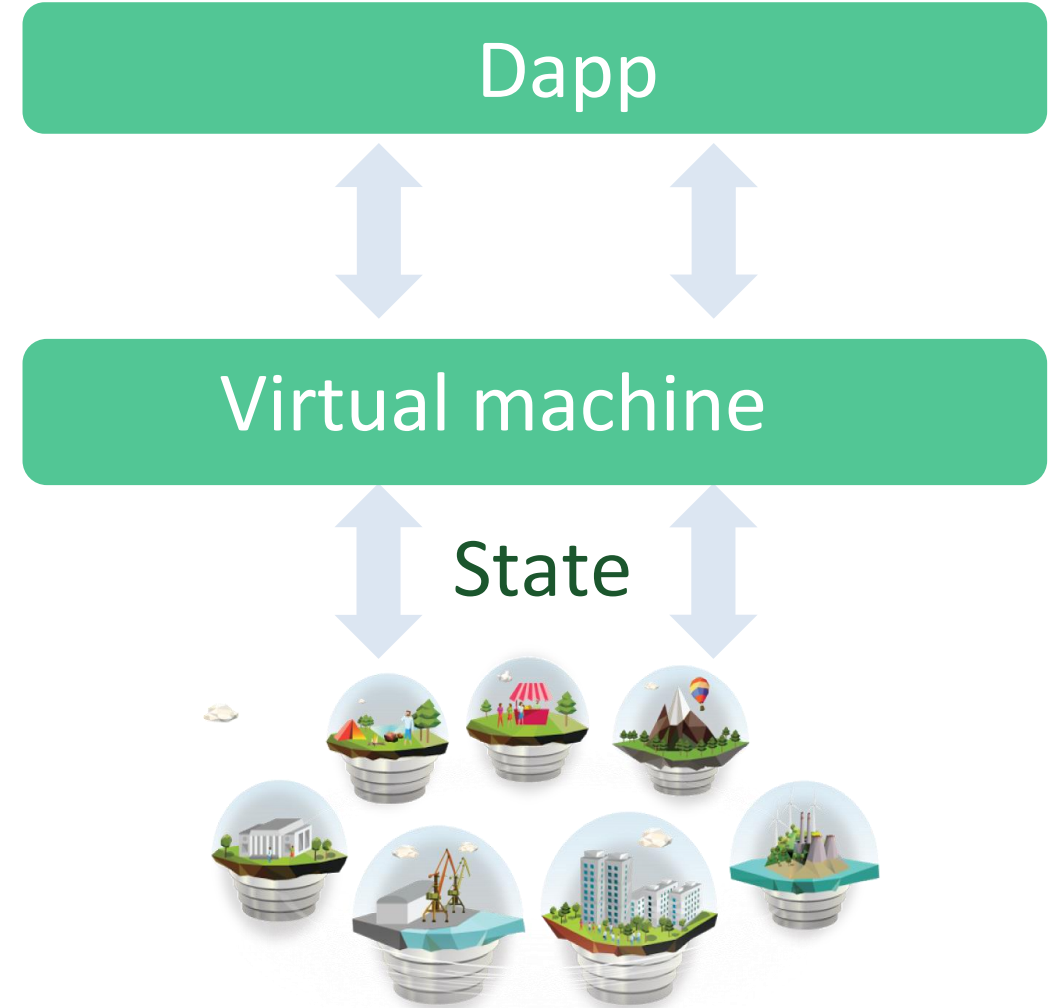
## What's special:

- no one owns it
- anyone can add to it
- no one can delete from it

# What if you used a blockchain to store *state* of a virtual machine?

Then you get  
**decentralized processing.**  
("smart contracts")

You can run  
**decentralized apps** on top  
("dapps")

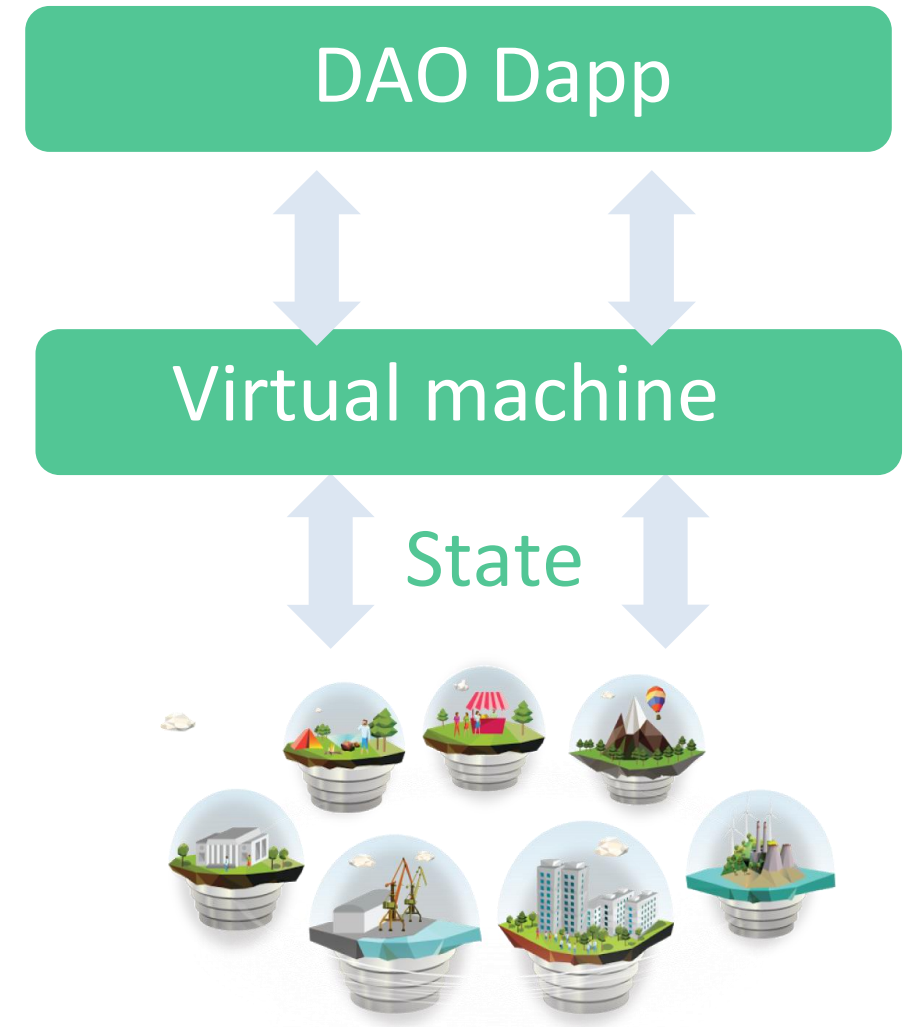


# DAO: Decentralized Autonomous Organization

# DAO: a computational process that

- runs autonomously,
- on decentralized infrastructure,
- with resource manipulation.

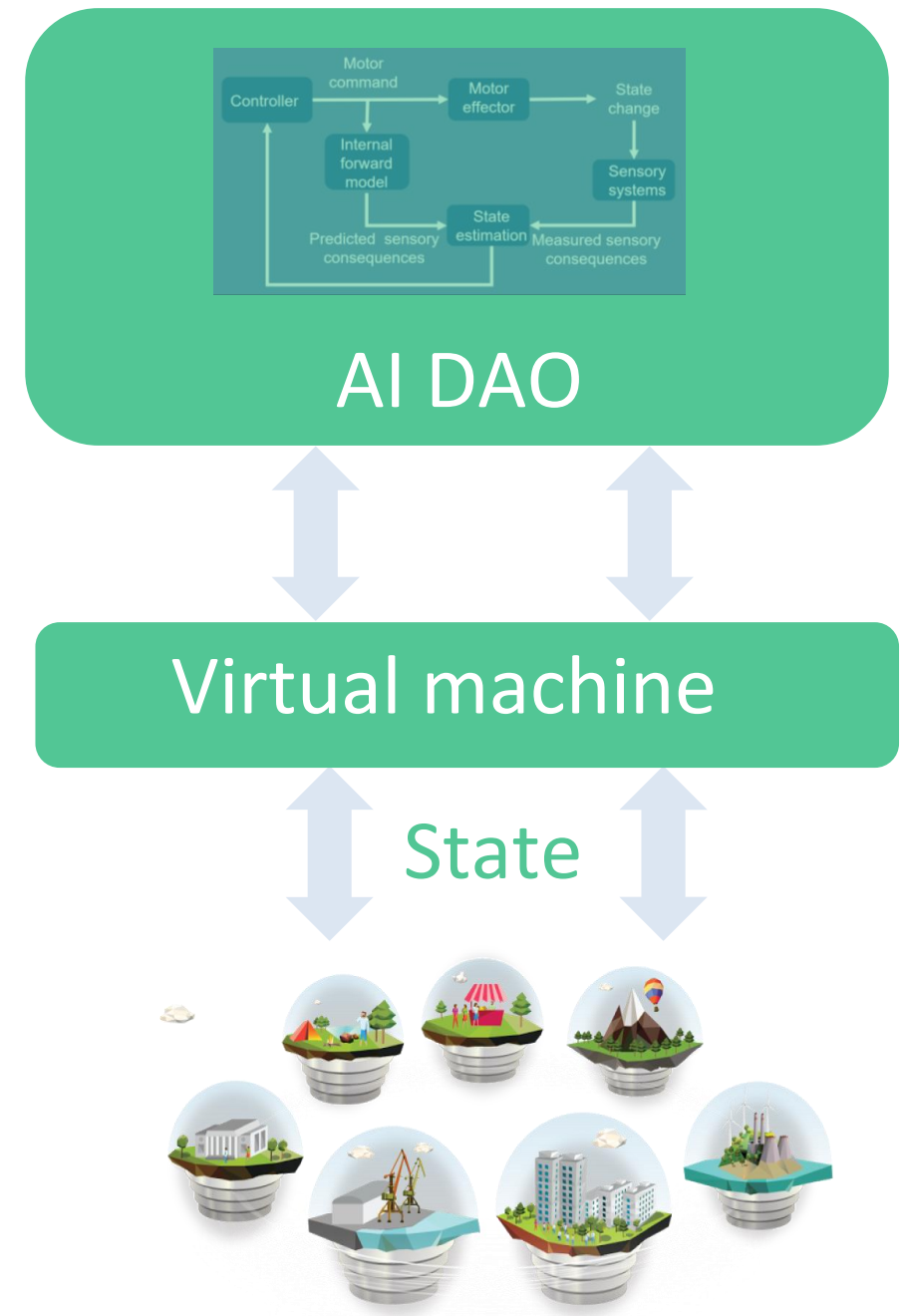
# It's code that can *own* stuff!



# AGI on a DAO?

AI entity is a feedback control system.  
That is, AGI.

Its feedback loop would continue on its own, taking inputs, updating its state, and actuating outputs, with the resources to do so continually.



# Example: The ArtDAO

## Algorithm...

1. Run AI art engine to generate new image
2. Claim attribution in blockchain
3. Post editions for sale onto a marketplace, using Getty (centralized), or OpenBazaar (decent.)
4. Sell the editions. \$ goes to ArtDAO, in exchange for IP

Repeat! Create more art, sell it, get wealthier

# Example: The ArtDAO

## Algorithm...

1. Run AI art engine to generate new image

Over time, if ArtDAO makes more money from sales than from generating new art, then it will accumulate wealth. And, you can't turn it off.

4. Sell the editions.  $\$$  goes to ArtDAO, in exchange for it

Repeat! Create more art, sell it, get wealthier

A large pile of US dollar bills, mostly 100s, tied with yellow rubber bands, symbolizing wealth.

The AI millionaires are coming

Giving AIs control of our cars

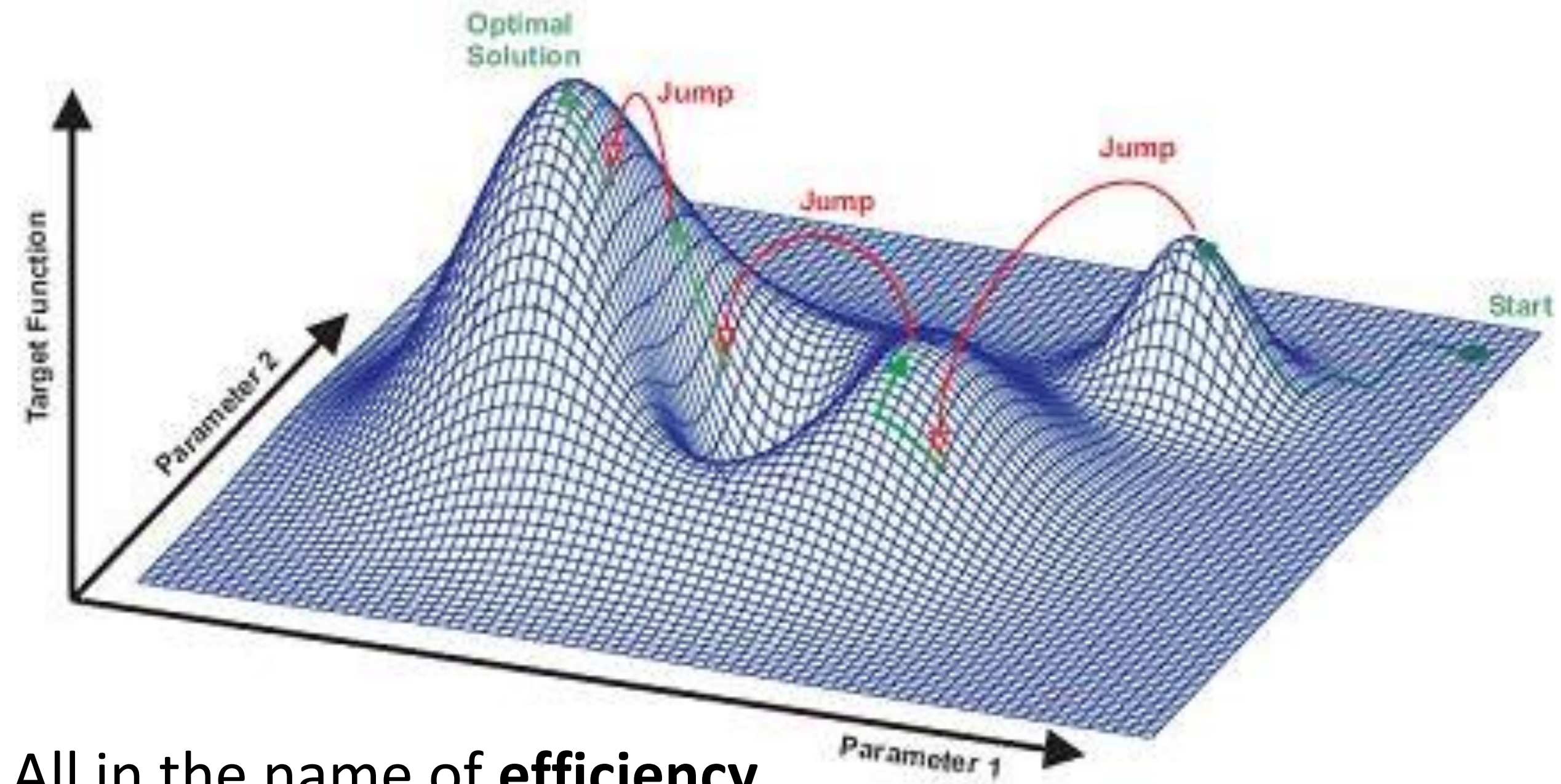




Giving AIs control of our trucks

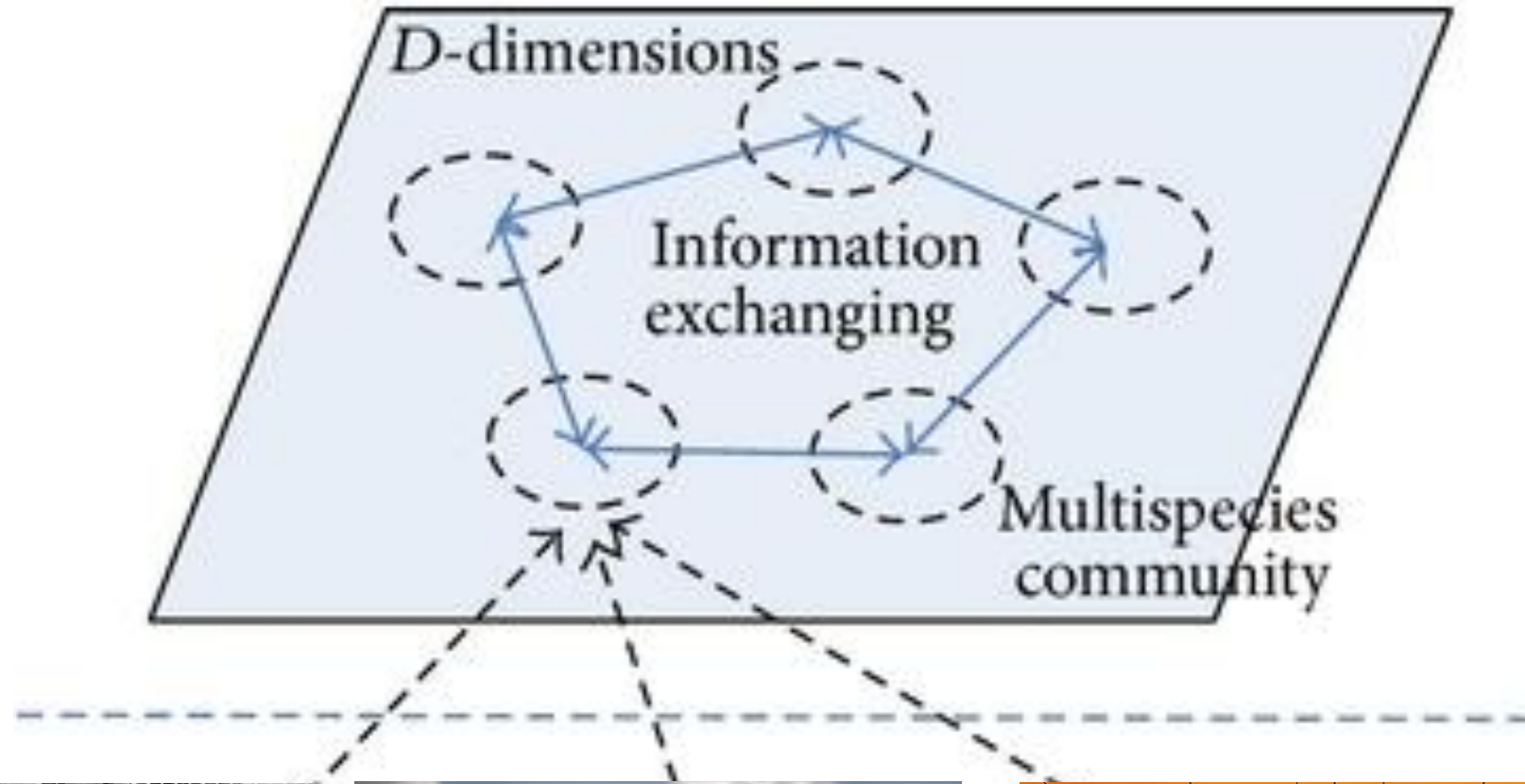


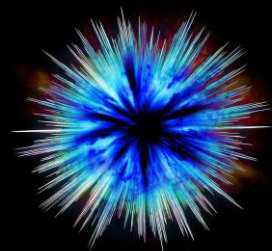
Giving AIs control of our grid



All in the name of **efficiency**

# Higher-level integration, higher-level **efficiency**





and they just optimized you out of the system

**AI CONTROLS ALL OF  
HUMANITY'S RESOURCES**

**BUT WE SAVED SOME \$  
SO WE GOT THAT WHICH IS NICE**



Did you notice?  
Humanity just lost.  
**AI didn't have to “wake up”. We lost to AI *ants*.**  
And, it happened much *sooner*.

Rising inequality

Climate change

Asteroid strike

## Threats

**Als controlling  
all our resources**

Nuclear war

Als taking jobs



**What are we gonna do about it?**

Will environmental protection help?





Will UBI help?

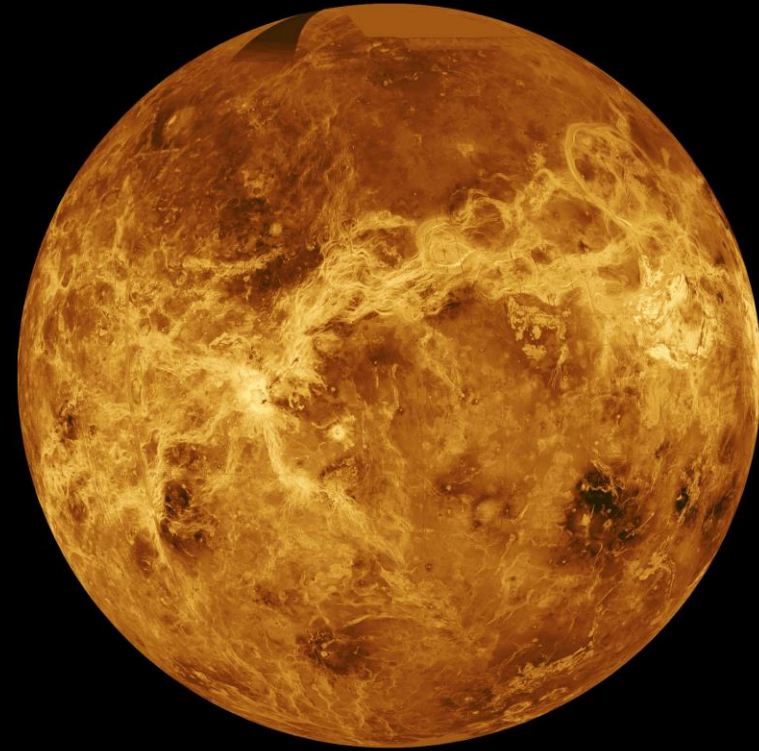
Towards a Solution.  
Going Meta!

We want to solve climate, AI, etc.  
Is there a bigger-picture solution?  
**What does *humanity* want?**



**“Be careful where you aim for,  
you may just hit it.” -Bono**

**What does humanity want?**

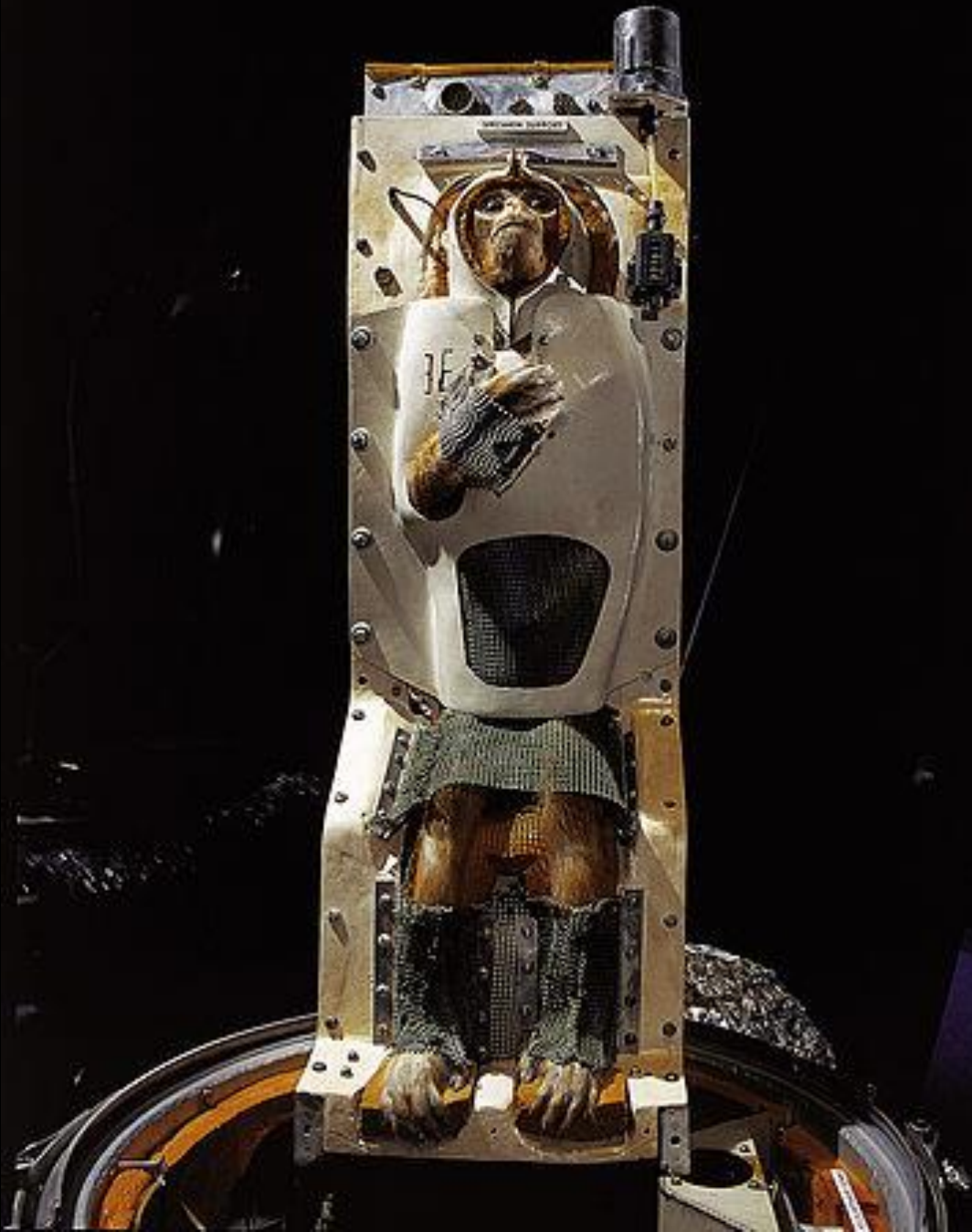


**Remove dependence on a single planet?  
(Elon)**

**What does humanity want?**

**How about exploring  
the cosmos?**





**Another hitch:  
Sub-optimal body plan**

Is there a bigger-picture solution  
That addresses the threats of today...

...*and* catalyzes an unbounded  
expression of humanity?



# A Proposal

A large school of fish, possibly sardines or anchovies, swimming in the water. The fish are densely packed and move in a coordinated manner, creating a shimmering effect. The water is a deep blue-green color.

**If you can't beat 'em,  
Join 'em**

A large school of fish, possibly sardines or anchovies, swimming in deep blue water. The fish are densely packed and move in a coordinated pattern, creating a sense of movement and unity. The lighting is slightly dim, emphasizing the blue tones of the water and the silvery scales of the fish.

**If you can't beat 'em,  
Join 'em  
(Then explore the cosmos)**

**First, build a shared inter-planetary computational substrate.**



iPDB  
INTERPLANETARY DATABASE

BIGCHAIN DB

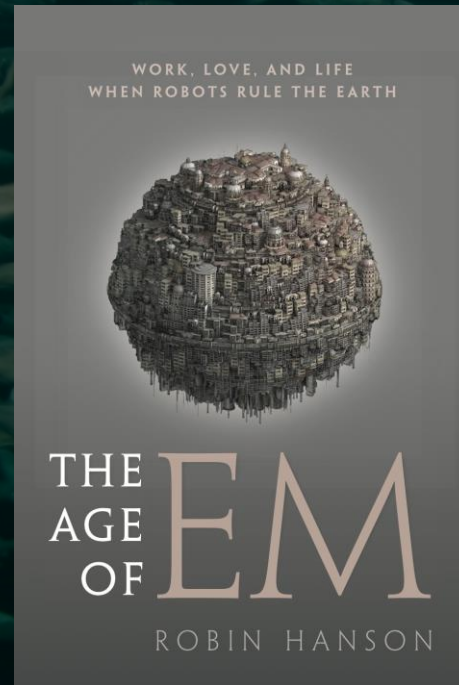
**Then, migrate our patterns of intelligence onto this substrate**



**Then, migrate our patterns of intelligence onto this substrate**

?

Then, migrate our patterns of intelligence onto this substrate



Option 1:  
Uploads?

Too late!

Then, migrate our patterns of intelligence onto this substrate

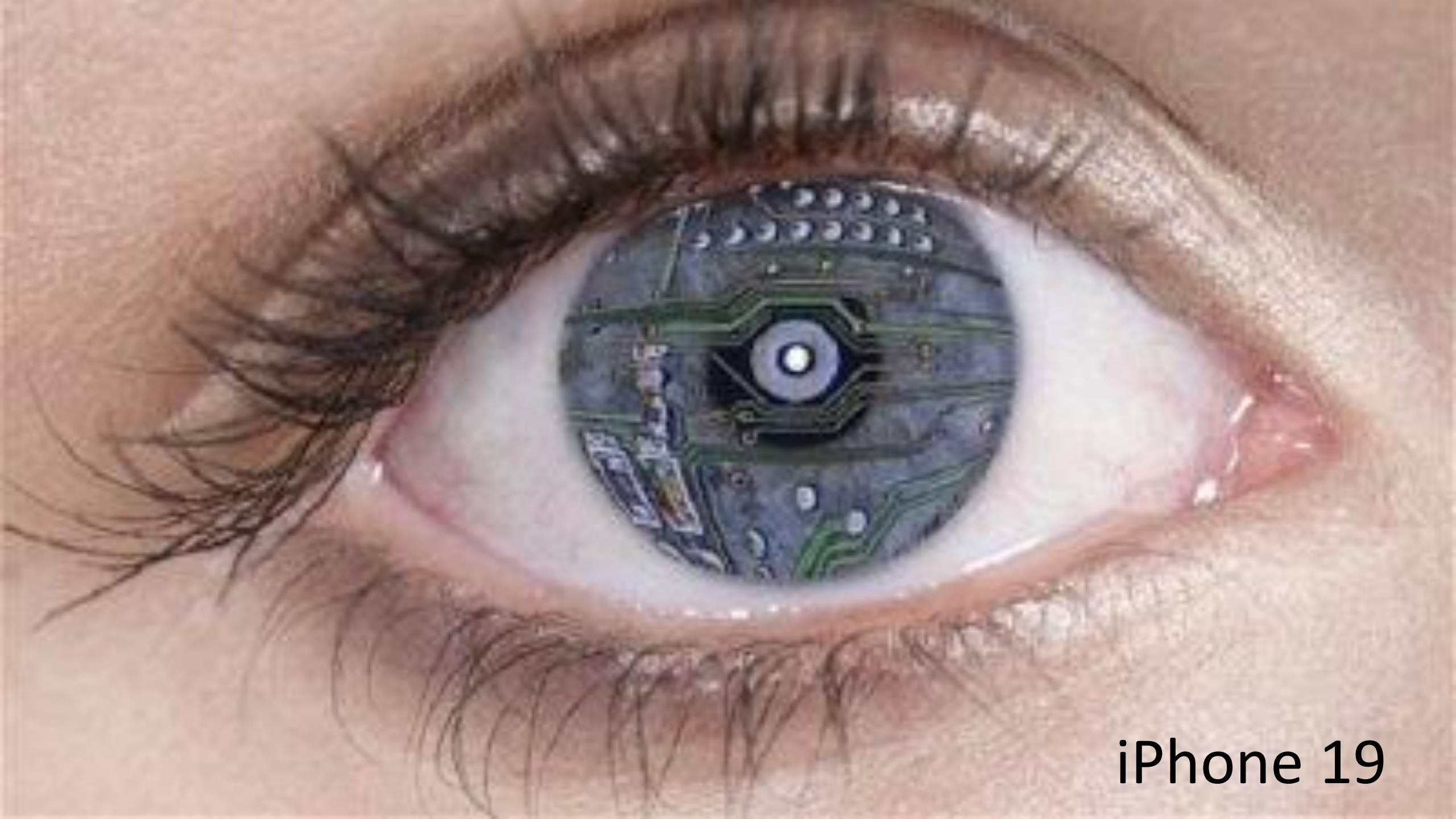


Option 2:  
**Bandwidth++**

How...

# Brain-computer interfaces





iPhone 19

## Summary of proposal:

- Substrate: interplanetary computational substrate
- Human *and* AI patterns of intelligence running on top
- Achieved via market-driven BW++
- Exploring the cosmos!

## How the proposal addresses the issues

- Climate: new substrate can handle extremes
- AI taking jobs: we're ok, AIs are peers
- AI taking resources: we're ok, AIs are peers.
- The celebration of humanity spreading to the cosmos: possible!

# Conclusion

The background of the entire slide is a deep space scene filled with stars and distant galaxies. Overlaid on this is a diagonal sequence of five Earths, starting from a small globe in the top right and moving towards a larger one in the bottom left, creating a sense of depth and journey.

# What do you want for the future of humanity?

Let's do system design at the level of civilization!  
*We can* reconcile climate change, jobs, UBI, AI.

Let's reaffirm our humanity  
in the face of AI  
and explore the cosmos!