



# Nature 2.0: The Cradle of Civilization Gets an Upgrade

Trent McConaghy

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Ocean | BigchainDB

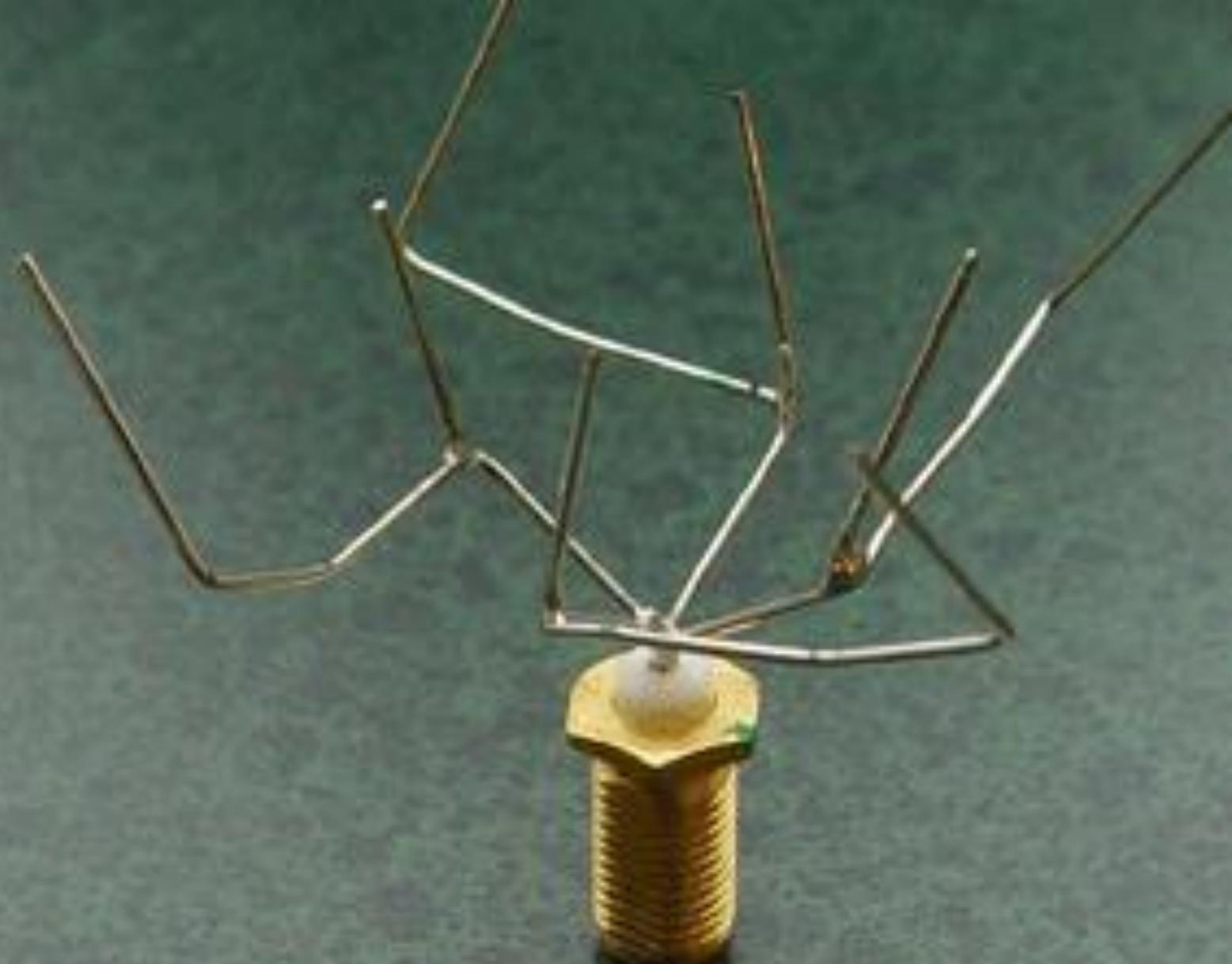
Trucking  
3.5M jobs



Retail  
4.6M jobs



# Creative jobs?



In an age of AI,  
How to feed our families?  
Achieve abundance?



Nature 1.0





**Nutrients**

A landscape photograph showing a dense forest of tall evergreen trees against a dramatic sky filled with white and grey clouds. The foreground is dark and out of focus, showing some rocky terrain. In the top right corner, there is a solid black rectangular box containing the word "Rain" in a large, white, sans-serif font.

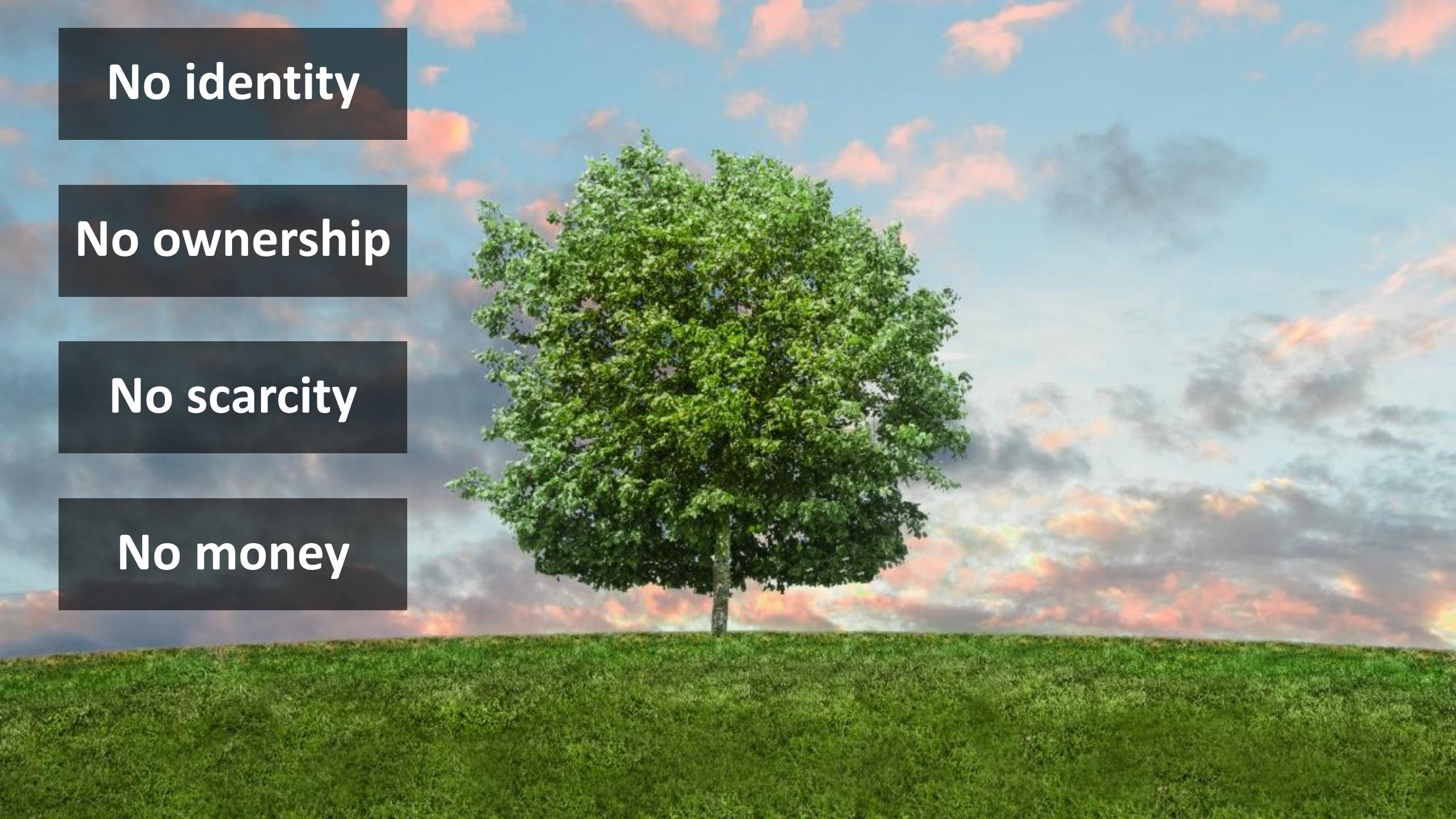
Rain



Sun

A squirrel with a brown and white striped back and a bushy tail is perched on a thick, textured tree branch. It is facing right, with its front paws near its mouth as if it's eating. The background is a soft-focus view of dense green foliage.

Symbiosis with  
animals

A photograph of a single, mature green tree standing alone on a grassy hill. The tree has a dense canopy of leaves. The background is a dramatic sky filled with clouds colored in shades of orange, yellow, and blue, suggesting either sunrise or sunset. The foreground is a lush green lawn.

**No identity**

**No ownership**

**No scarcity**

**No money**

A photograph of a single, mature green tree standing alone on a grassy hill. The background is a dramatic sky filled with orange, pink, and purple clouds at sunset or sunrise. The tree has a thick trunk and a wide canopy of green leaves.

No identity

No ownership

No scarcity

No money

It just *is.*

Self-sustaining  
Anti-fragile

**Ever-higher levels  
of integration.**

**From beasts →  
ecosystems**

**Each ecosystem  
just *is*.**

**Self-sustaining  
Anti-fragile**

**Mother Earth =  
our planet's  
ecosystem.**

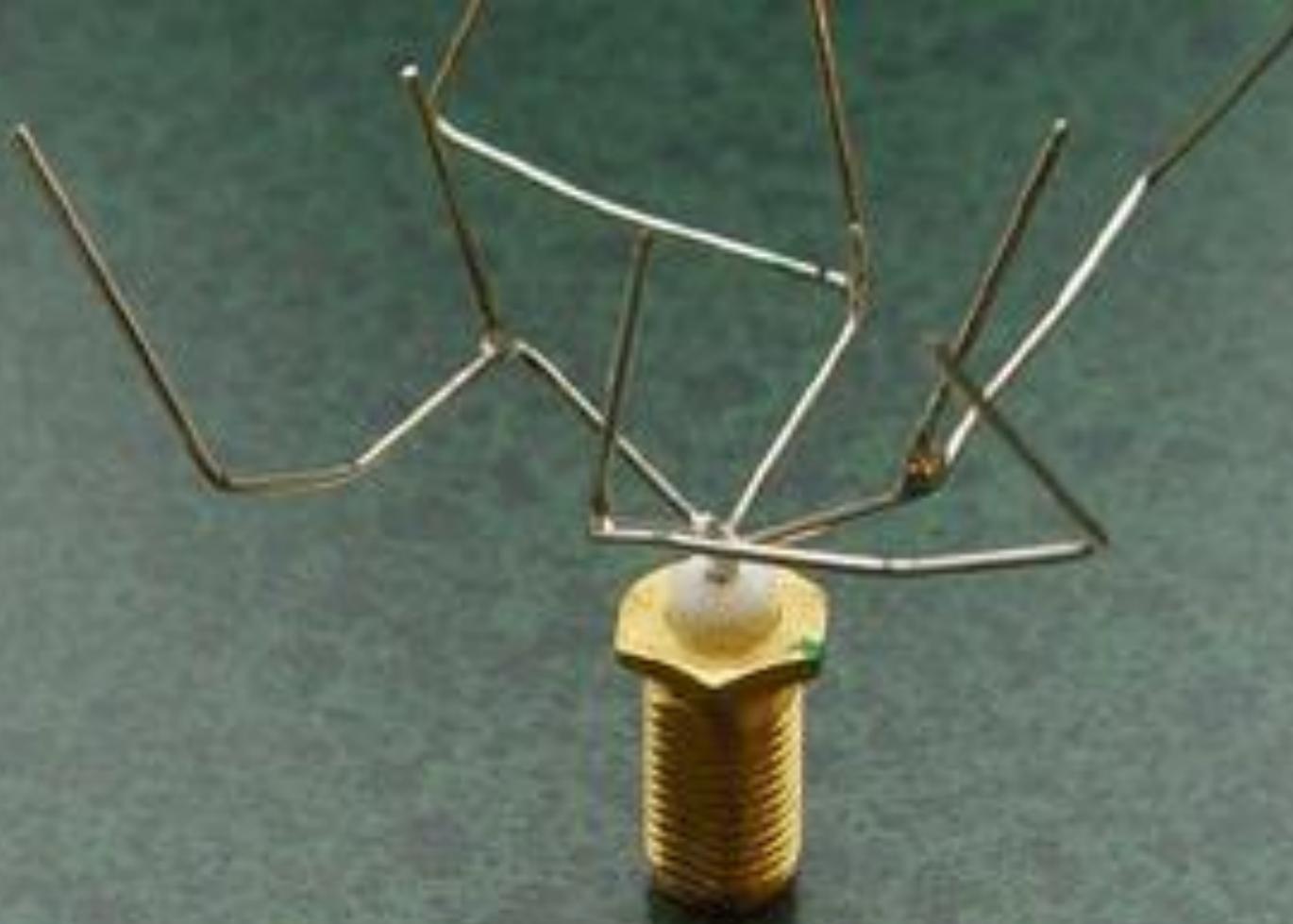
**Nature is the  
cradle of  
civilization.**



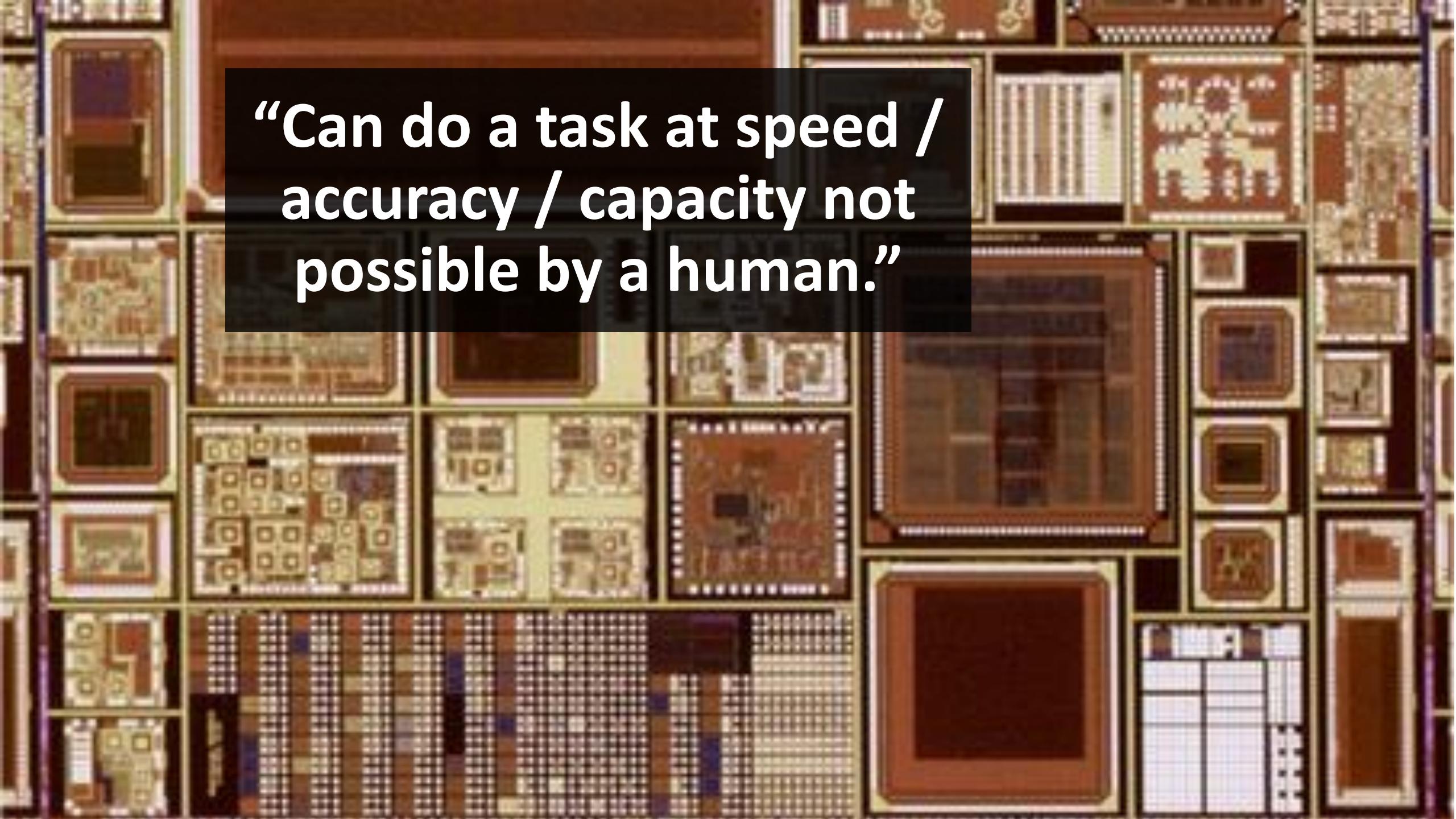
# Ways to frame AI

**“Replicates human cognitive behavior” [Turing test]**





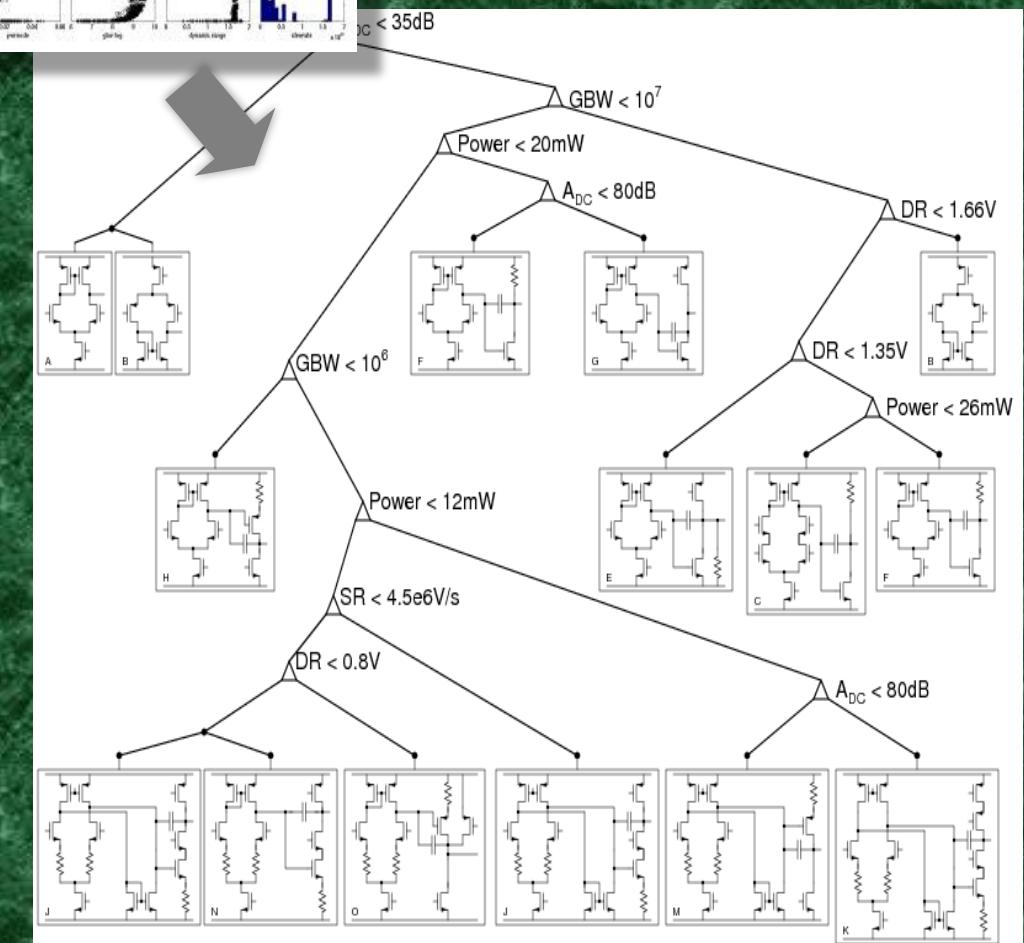
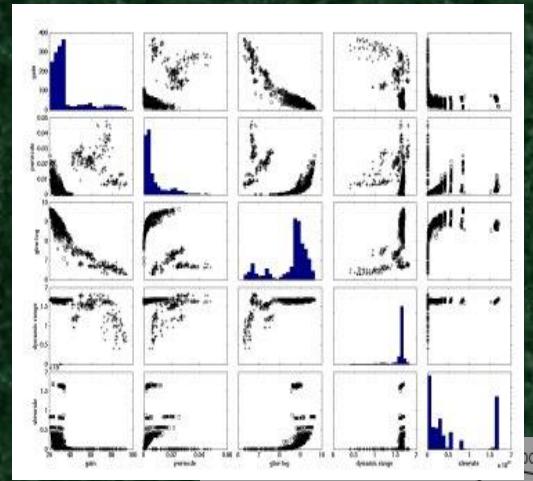
“Can do tasks that only a  
human could previously do”



**“Can do a task at speed /  
accuracy / capacity not  
possible by a human.”**

# “A set of tools”

- Classification
- Regression
- Knowledge extraction
- Optimization
- Creative / Structural design
- ...



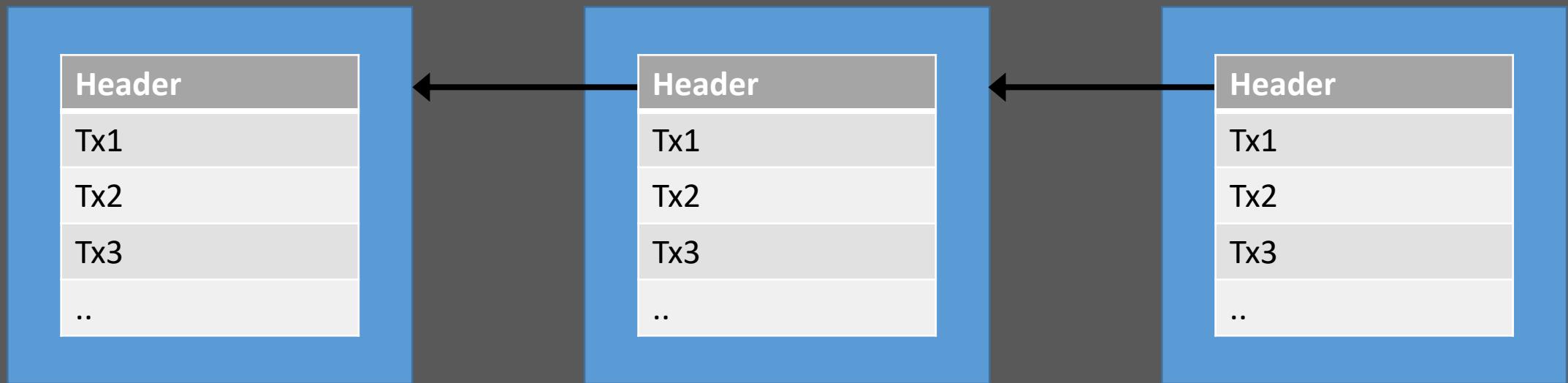


“Embodied agents” (AGI)

# Ways to frame blockchain



# “A Chain of Blocks (of transactions)”



The image shows a row of five modern skyscrapers with curved glass facades and white horizontal bands. The building on the far right has the word "ORACLE" written on its top floor. The buildings are set against a clear blue sky.

“Decentralized database”

INSIDE: A 12-PAGE SPECIAL REPORT ON COLOMBIA

# The Economist

OCTOBER 31ST-NOVEMBER 8TH 2015

Economist.com

- 007 and the spectre of Britain's past
- Turkey votes to the sound of bombs
- Those ever-creative accountants
- America takes the fight to IS
- Coywolves: the new superpredator

## The trust machine

How the technology behind bitcoin could change the world



**“Trust machine” :  
minimizes trust needed  
to operate.**

# “DAO: Decentralized Autonomous Organization”

A computational process that

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

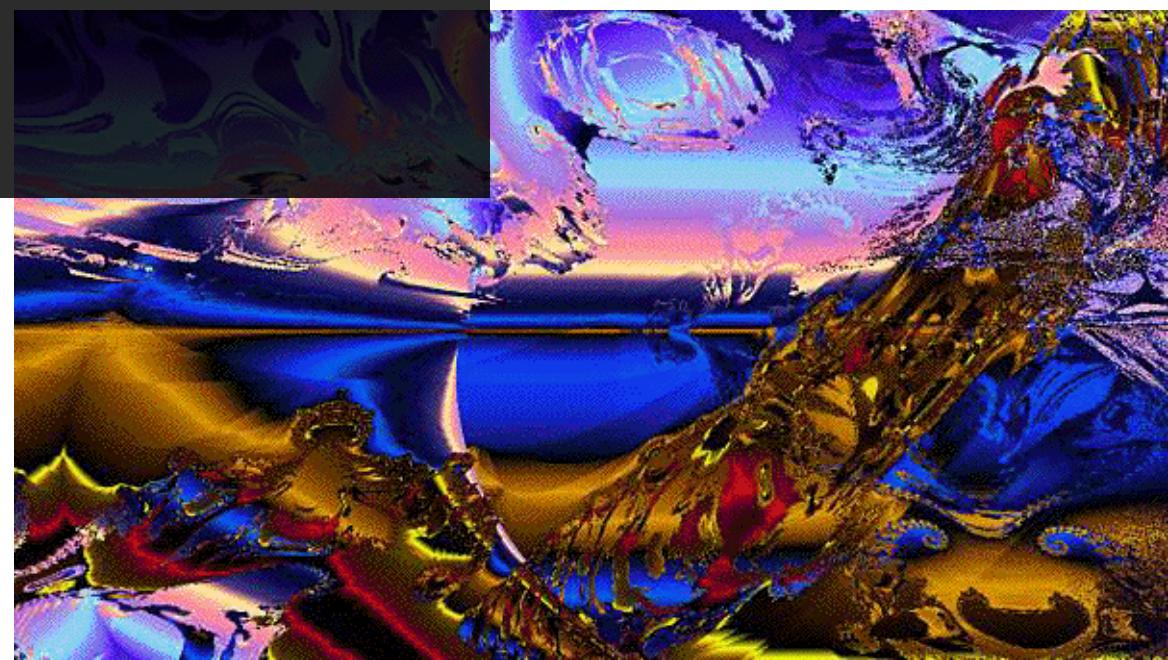
It's code that can *own* stuff!

A “good computer virus”

# AI \* Blockchain: AI DAOs

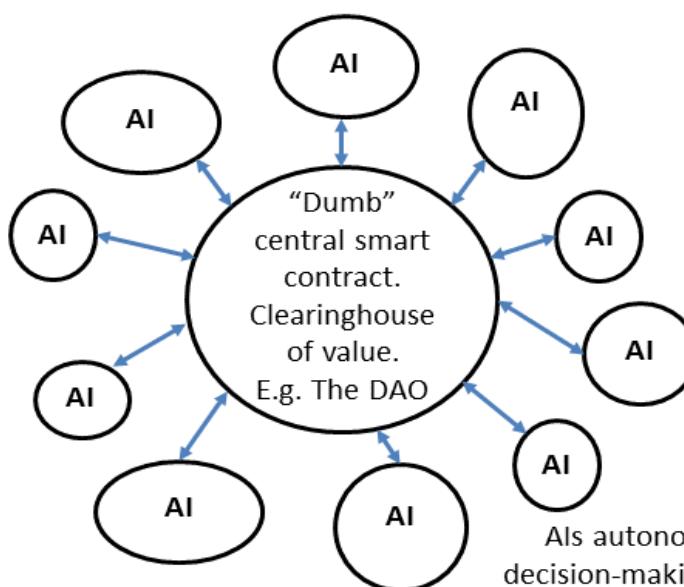
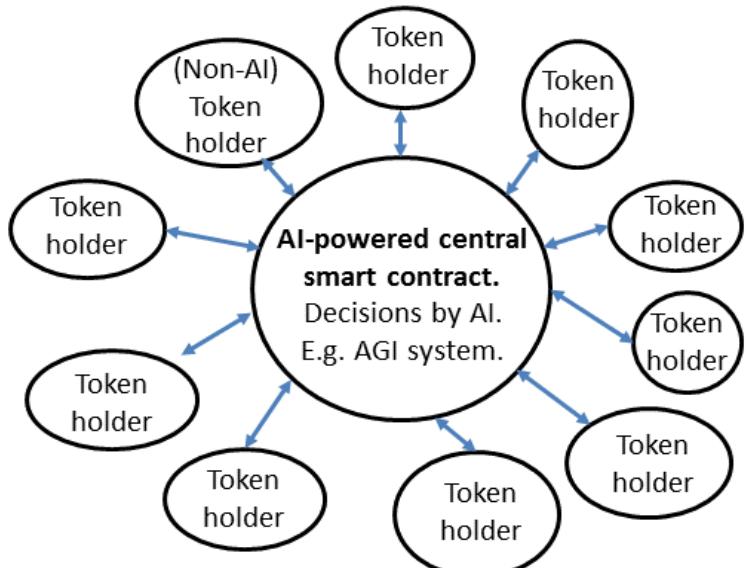
# The ArtDAO

1. An AI is running on a blockchain.
2. The AI generates a new image.
3. Sell image on a marketplace
4. Repeat!

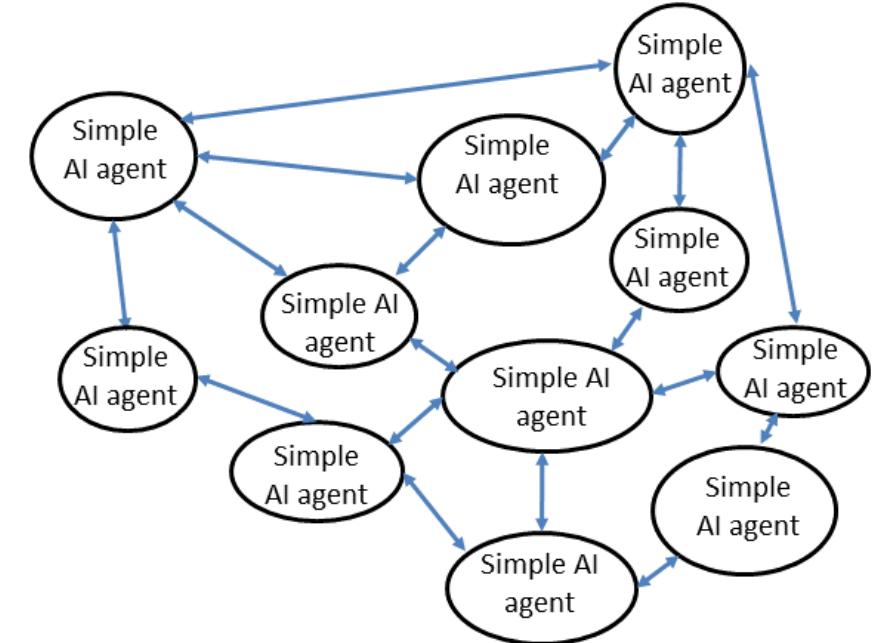


# AI DAO Architectures:

## AI at center, AI at edges, swarm/emergent



AIs autonomously do decision-making. AI may be narrow (e.g. deep nets) or more general (e.g. AGI)



# Rights for AI (DAOs) With Today's Laws (!)



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How to give an AI rights

1. Given: corps have rights
2. Start a corp
3. Automate corp into an AI DAO
4. Done! It's an AI, it has rights

RETWEETS

22

LIKES

30



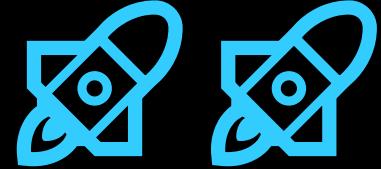
11:40 PM - 4 Jul 2016

5

22

30



Nature 2.0  
=AI DAOs 



**Self-driving,  
self-owning cars**



# Self-driving, self-owning trucks

FREIGHTLINER



ocean

An aerial photograph of a winding asphalt road through a mountainous area. The road curves repeatedly, following the contours of the hillside. The surrounding terrain is covered in patches of green and yellow vegetation, likely grass or low shrubs, with some rocky areas. The lighting suggests it might be late afternoon or early morning, with long shadows cast by the road and the terrain.

**Self-owning  
roads**

A photograph of several wind turbines silhouetted against a vibrant sunset sky. The sky transitions from deep blue at the top to bright orange and yellow near the horizon, with wispy clouds. Three turbines are clearly visible in the foreground and middle ground on the left, while one more is partially visible on the right.

# Self-owning wind farms

# Self-owning grid



ocean

A photograph of a dense forest. Sunlight filters through the tall, thin trunks of coniferous trees, creating bright highlights on the dark green foliage and the forest floor. The ground is covered with a mix of green grass and small, yellowish-green flowers. The overall atmosphere is serene and natural.

**Self-owning forest “Terra0”**

**Ever-higher levels of integration**  
**From beasts → ecosystems**  
**Connected via IoT / M2M**



A white Audi R8 sports car is shown from a rear three-quarter perspective, driving away on a paved road that curves through a lush, green rural landscape under a blue sky with scattered clouds.

No identity

No ownership

No scarcity

No money

It just *is.*

Self-sustaining  
Anti-fragile

A large flock of birds, likely starlings, is captured in flight against a clear blue sky. The birds are densely packed, creating a dark, swirling mass that dominates the upper half of the image. They appear to be performing a complex aerial maneuver, possibly a murmuration. The background is a bright, clear blue.

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No money

*It just is.*

Self-sustaining  
Anti-fragile

Profit →  
UBI Chain

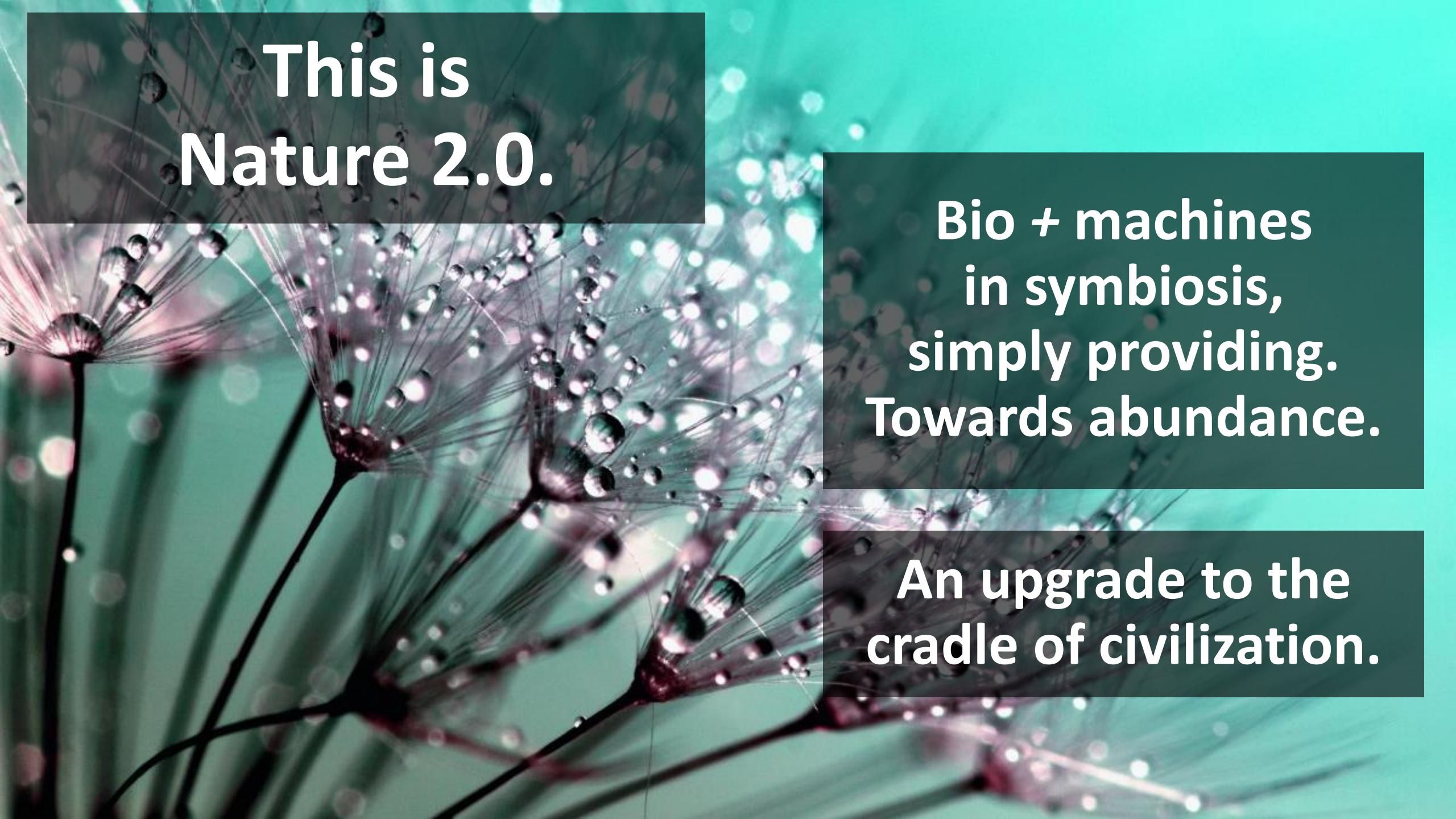
Profit →  
UBI Chain

Profit →  
UBI Chain

Profit →  
UBI Chain



...Abundance?



This is  
Nature 2.0.

Bio + machines  
in symbiosis,  
simply providing.  
Towards abundance.

An upgrade to the  
cradle of civilization.

# Conclusion

A close-up photograph of a Shiba Inu dog's face. The dog has a light tan or cream-colored coat with darker brown markings on its ears and around its eyes. Its eyes are dark and expressive, and it has a small black nose. The background is slightly blurred, showing some indoor elements like a bookshelf and flowers.

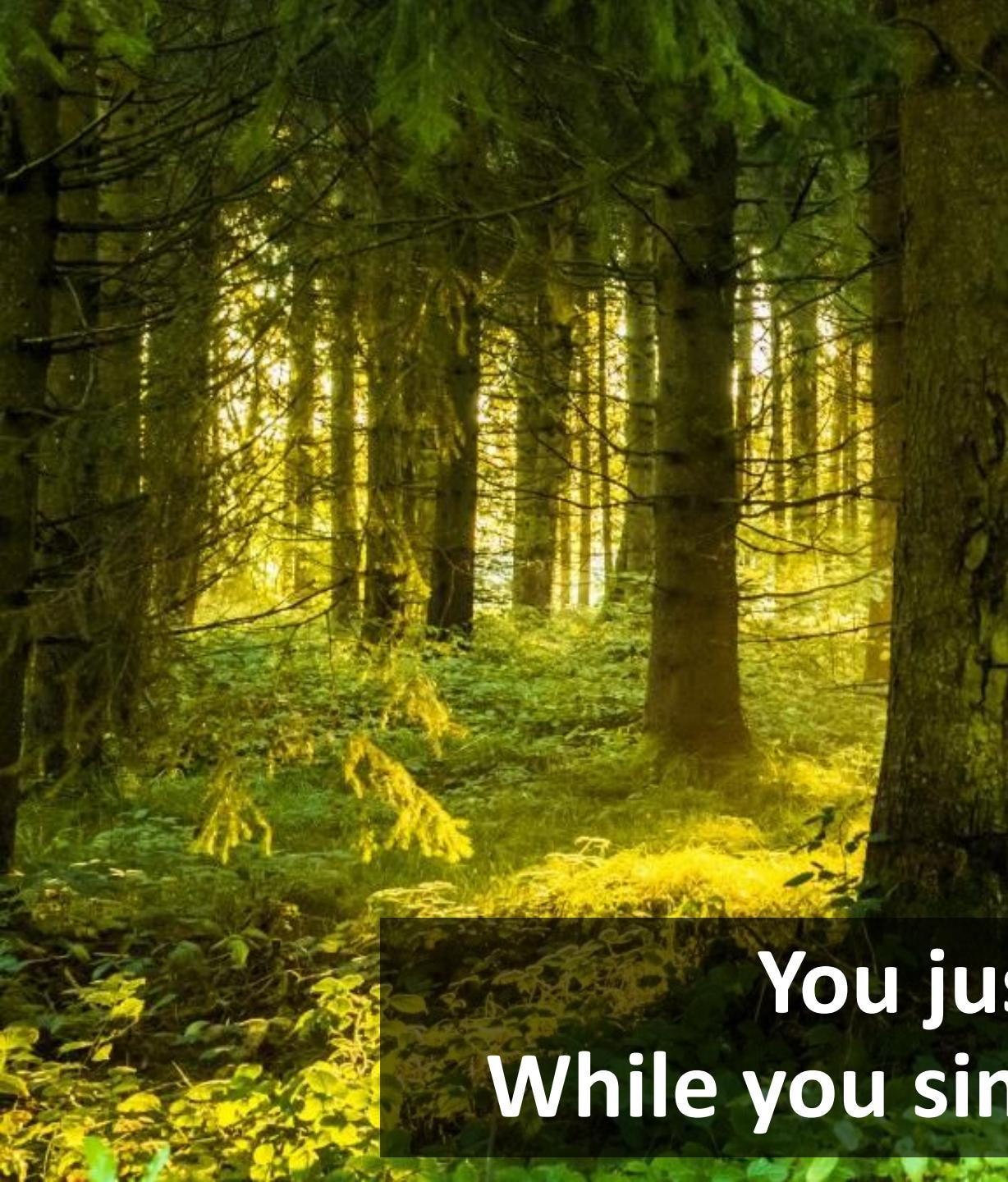
In the internet,  
no one knows  
you're a dog(e)

A photograph of a dense forest. Sunlight filters through the tall, thin trunks of coniferous trees, creating bright vertical streaks of light against the dark green foliage. The forest floor is covered in a mix of green undergrowth and fallen leaves. In the foreground, there's a cluster of low-lying green plants.

In Nature 2.0,  
no one knows  
you're a forest



In Nature 2.0,  
no one knows  
you're a grid



You just *are*.  
While you simply *provide*.



**Nature is the cradle of civilization.**

**Nature 1.0 is seeds & soil.**

**Nature 2.0 adds silicon & steel. AI \* blockchain.**

**Towards abundance.**



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h/t Jan-Peter Doornenik