



# Nature 2.0: The Cradle of Civilization Gets an Upgrade

Trent McConaghy

@trentmc0

Ocean | BigchainDB

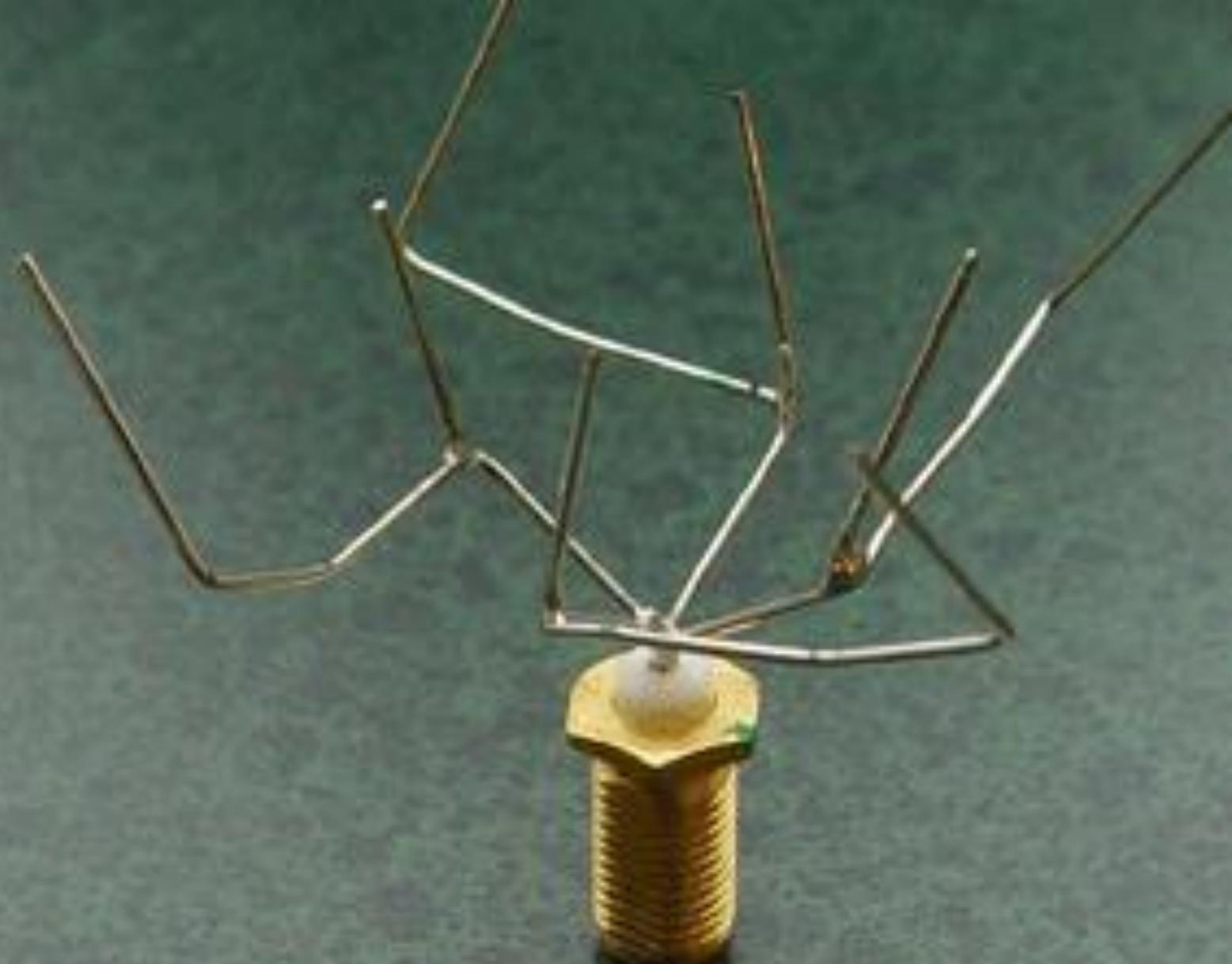
Trucking  
3.5M jobs



Retail  
4.6M jobs



# Creative jobs?



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



Nature 1.0





**Nutrients**



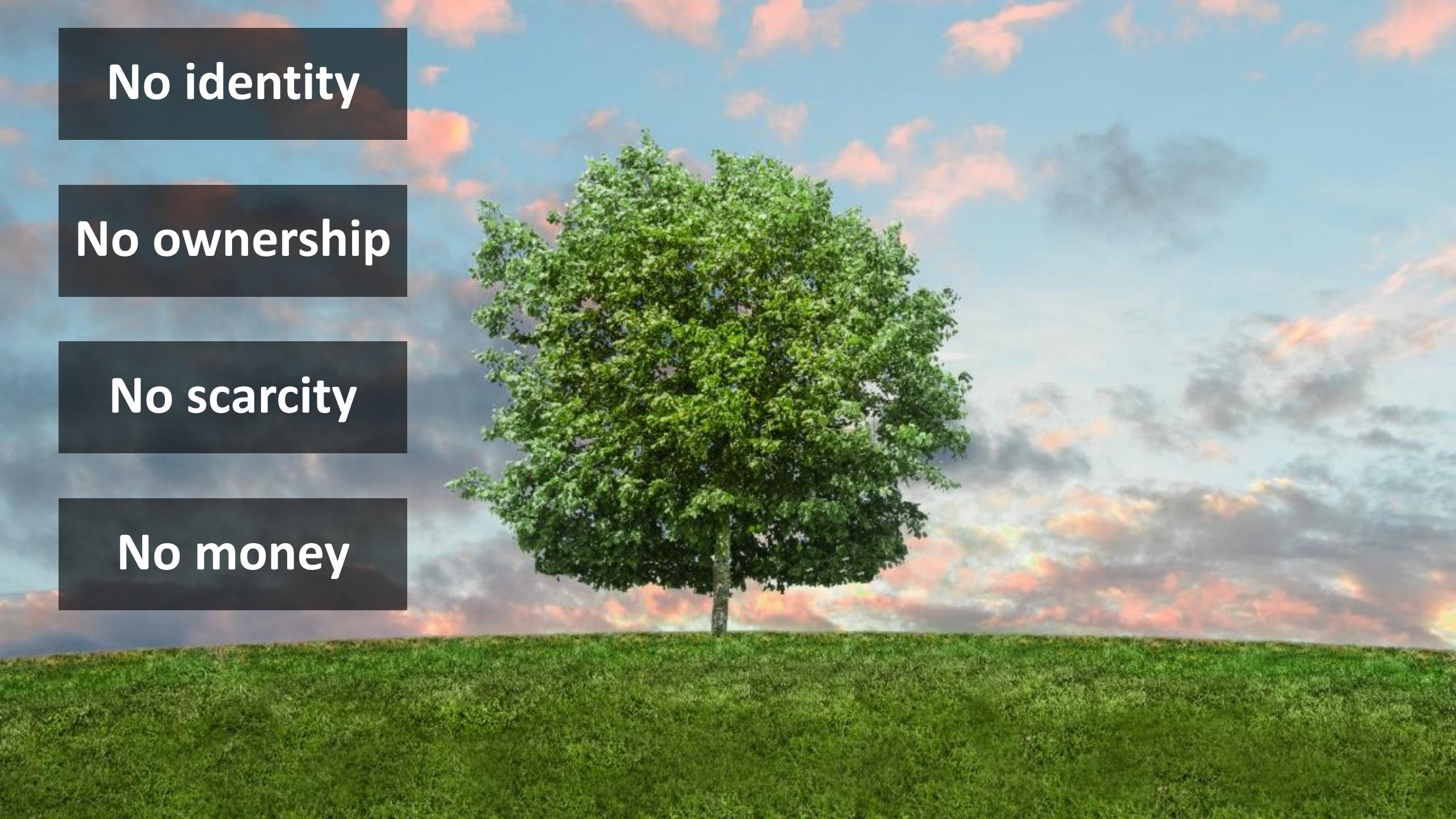
Rain



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 large, fluffy clouds colored in shades of orange, yellow, and blue, suggesting either a sunrise or sunset. The foreground is a bright, green grassy field.

**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.**

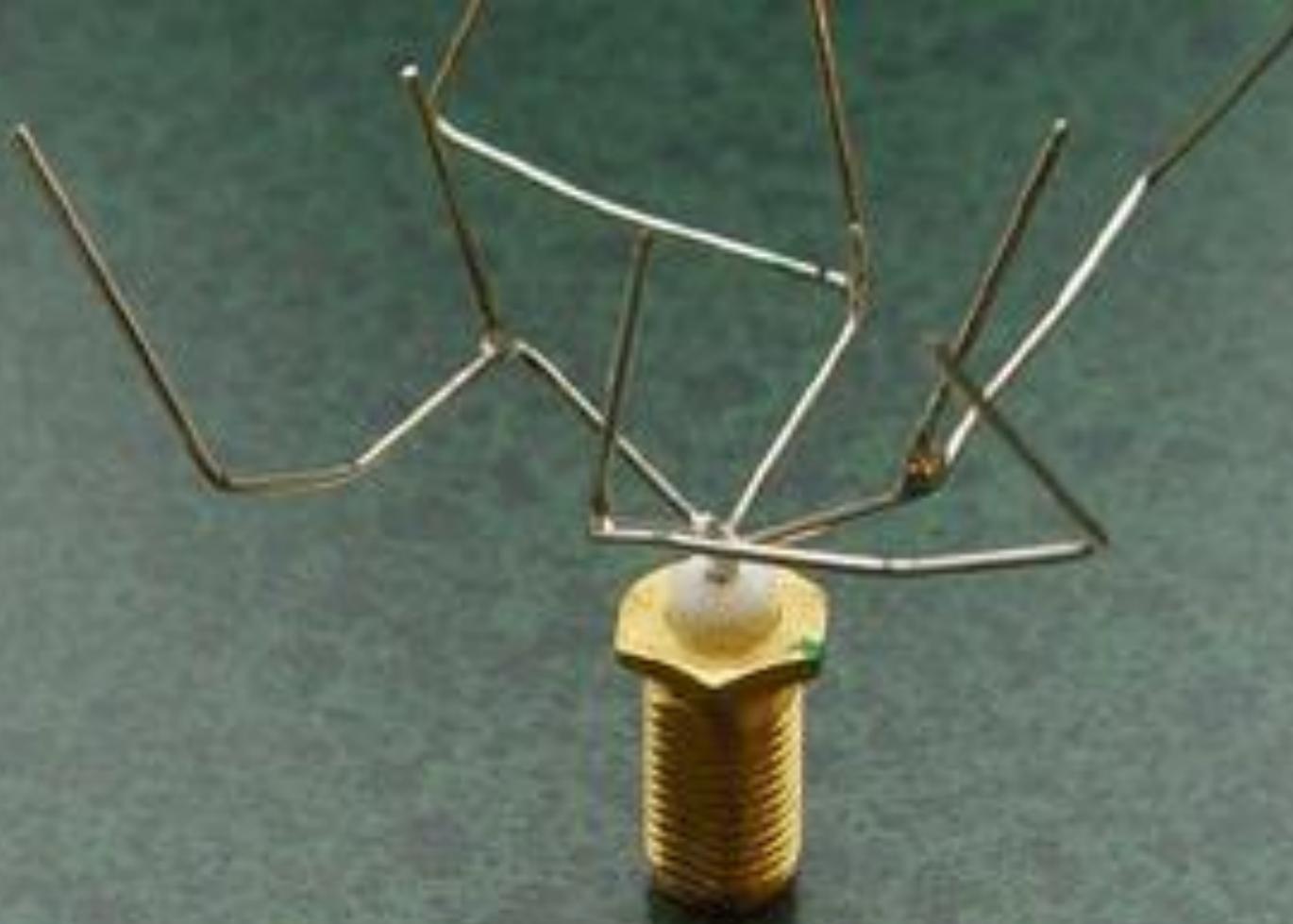
**Nature is the  
cradle of  
civilization.**



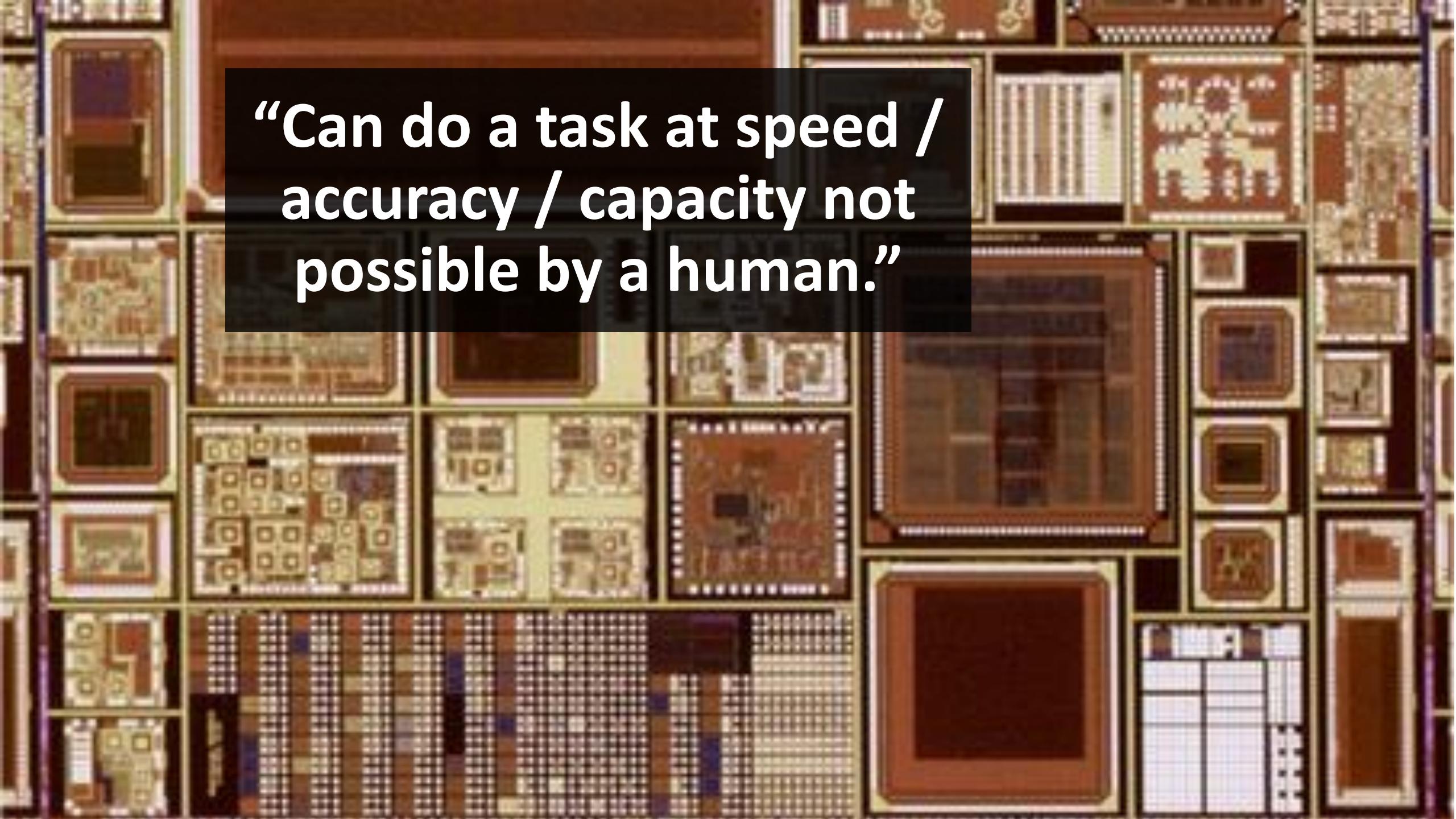
# Ways to frame AI

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





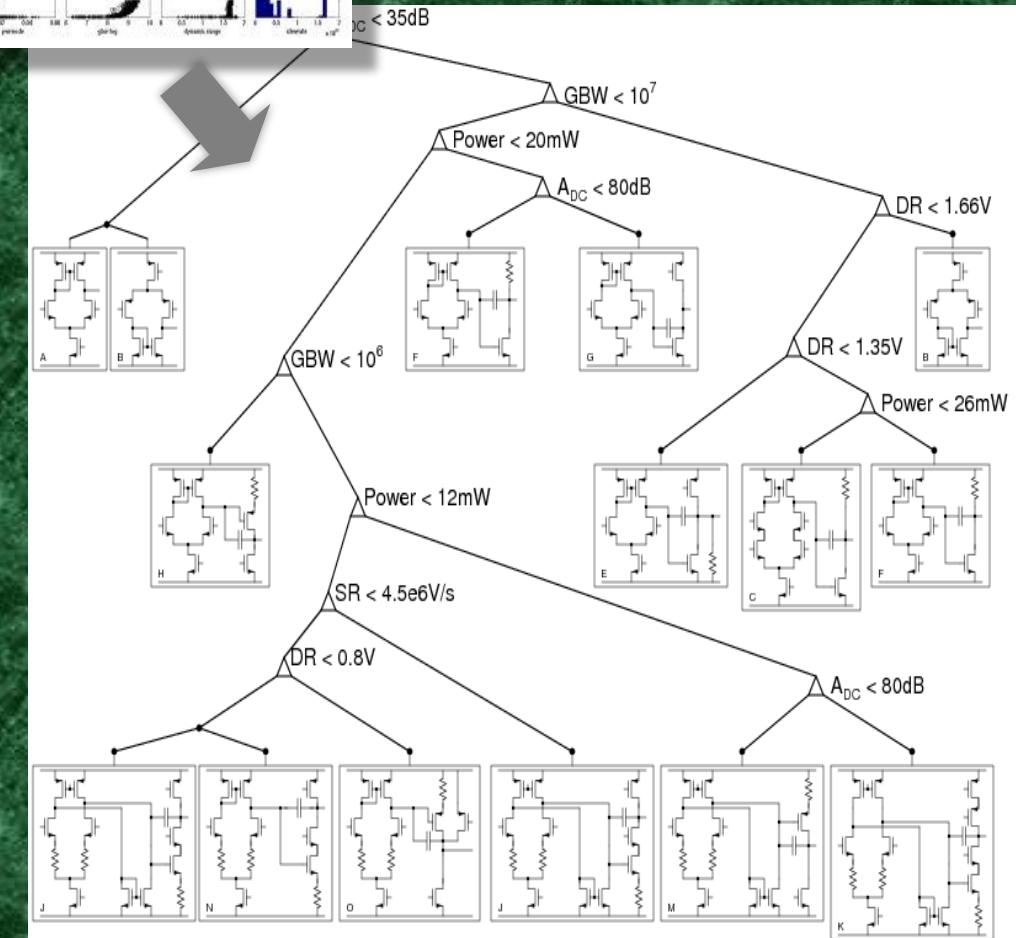
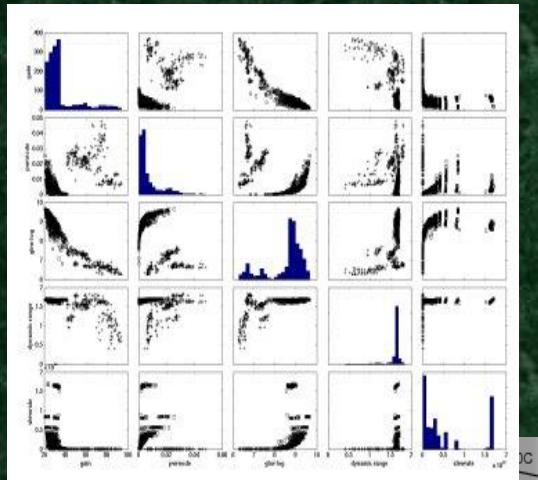
“Can do tasks that only a  
human could previously do”



**“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
- ...



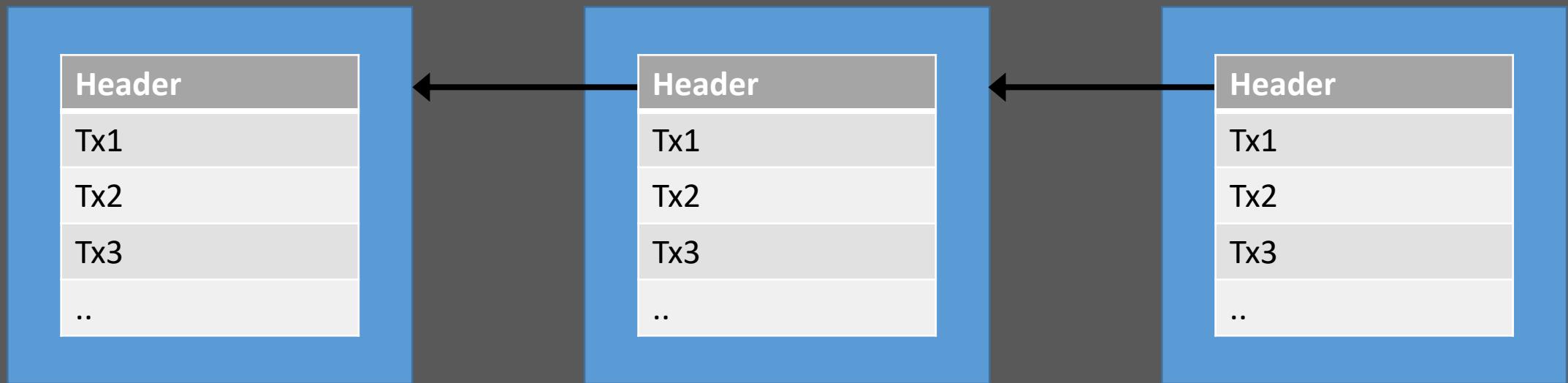


“Embodied agents” (AGI)

# Ways to frame blockchain



# “A Chain of Blocks (of transactions)”



The image shows a series of five modern office buildings with curved, glass-fronted facades. The buildings are set against a clear, bright blue sky. The architecture is characterized by horizontal bands of glass and white structural elements. The building on the far right has the word "ORACLE" printed in capital letters on its upper facade.

“Decentralized database”

INSIDE: A 12-PAGE SPECIAL REPORT ON COLOMBIA

# The Economist

OCTOBER 31ST-NOVEMBER 6TH 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.

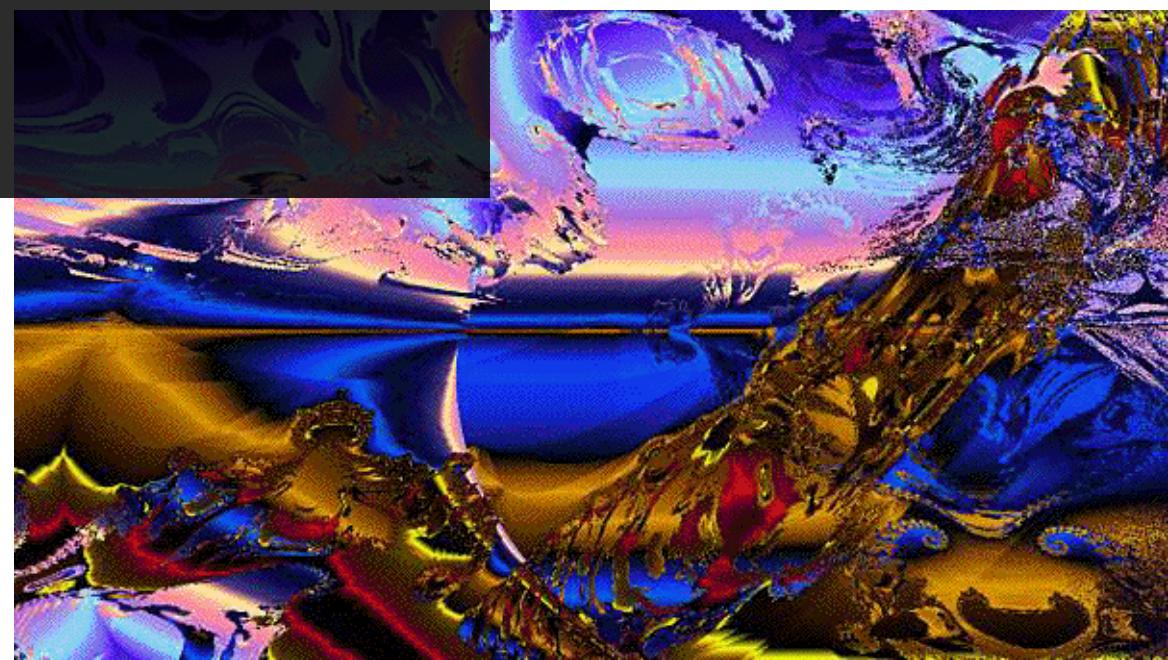
It's code that can *own* stuff!

A “good computer virus”

# AI \* Blockchain: AI DAOs

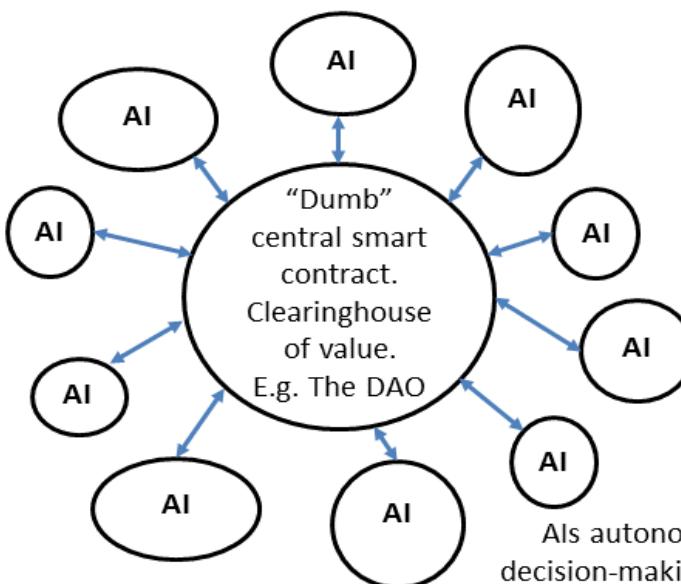
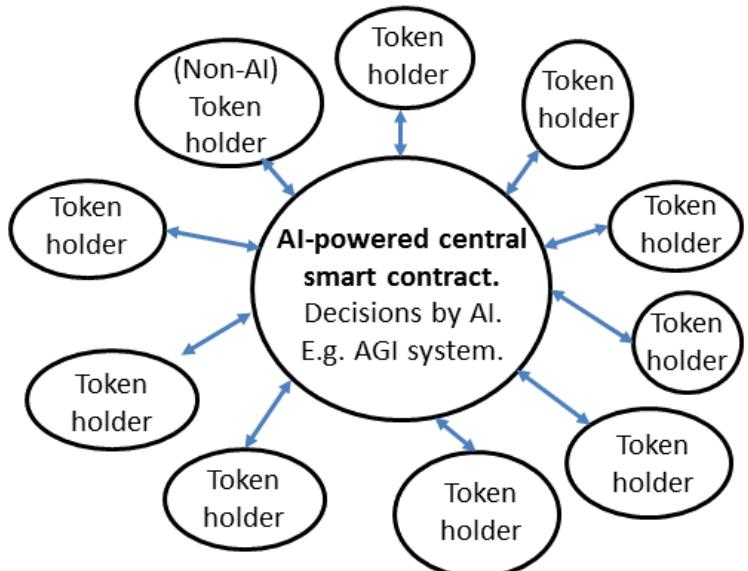
# The ArtDAO

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

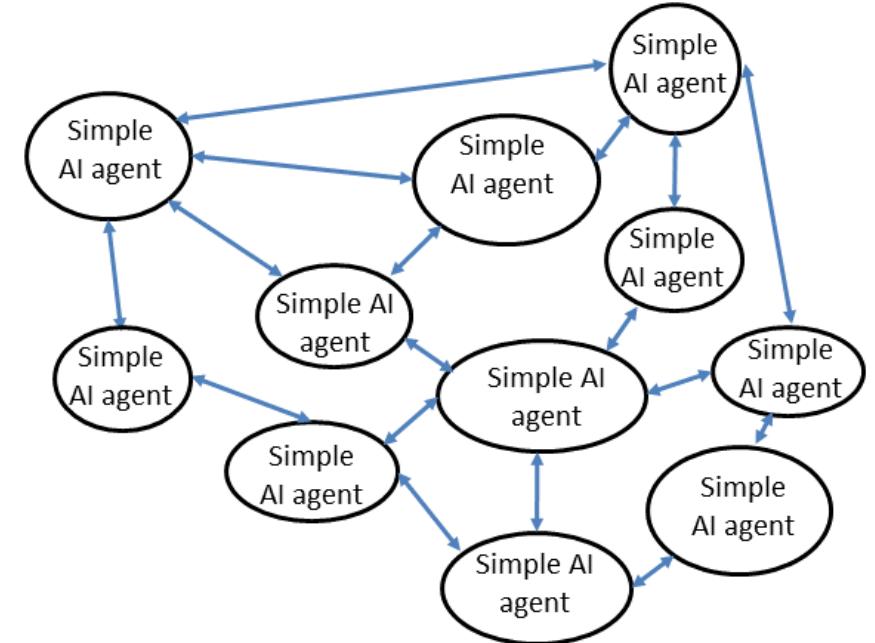


# AI DAO Architectures:

## 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 (!)



Trent McConaghy

@trentmc0

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



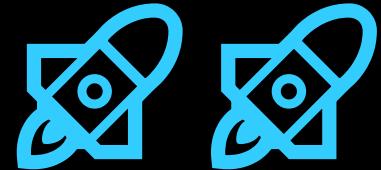
11:40 PM - 4 Jul 2016

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.

**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 green foliage and dappled light on the forest floor. The foreground is filled with green undergrowth and fallen branches.

**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 field 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

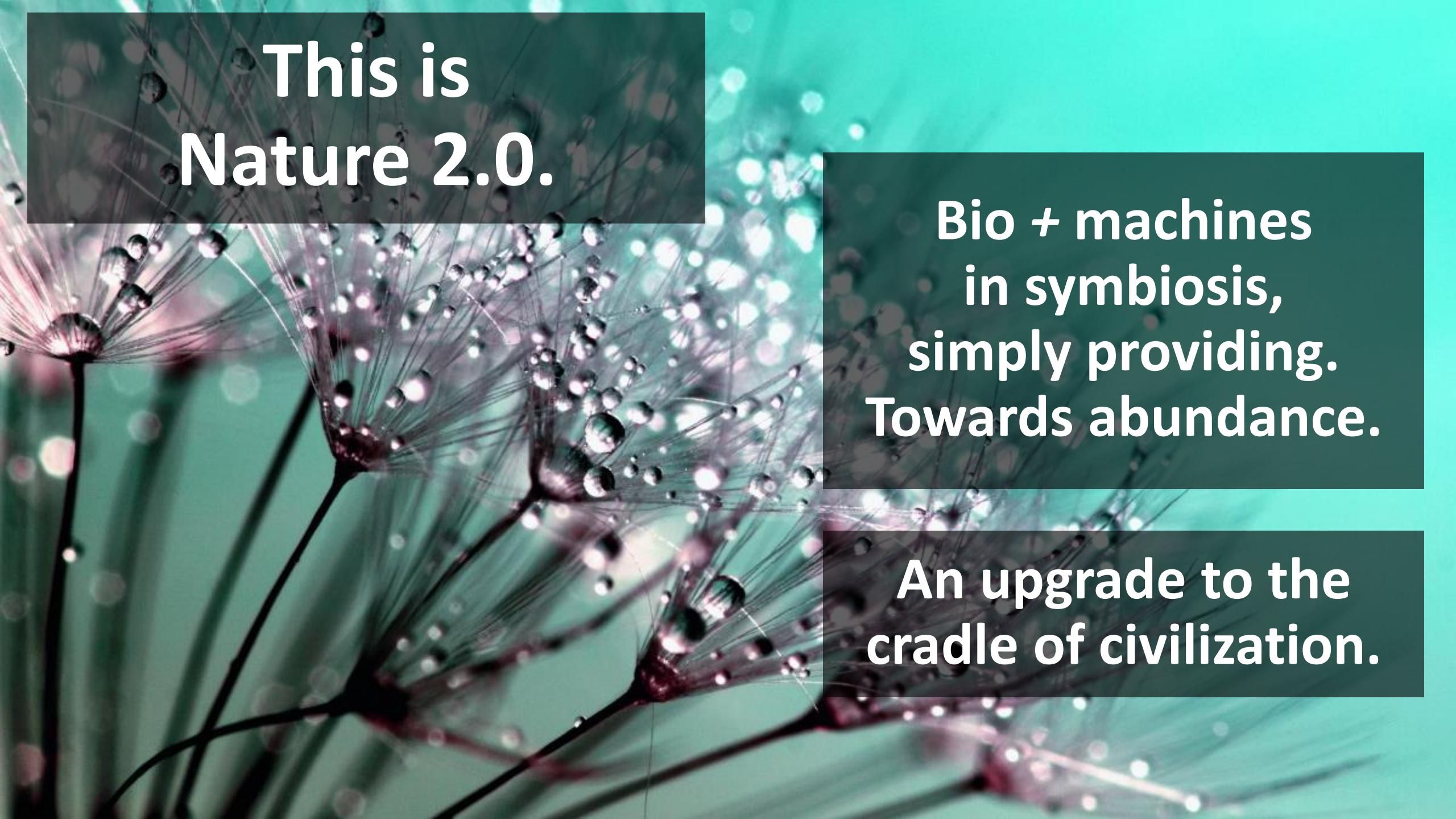
Profit →  
UBI Chain

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.

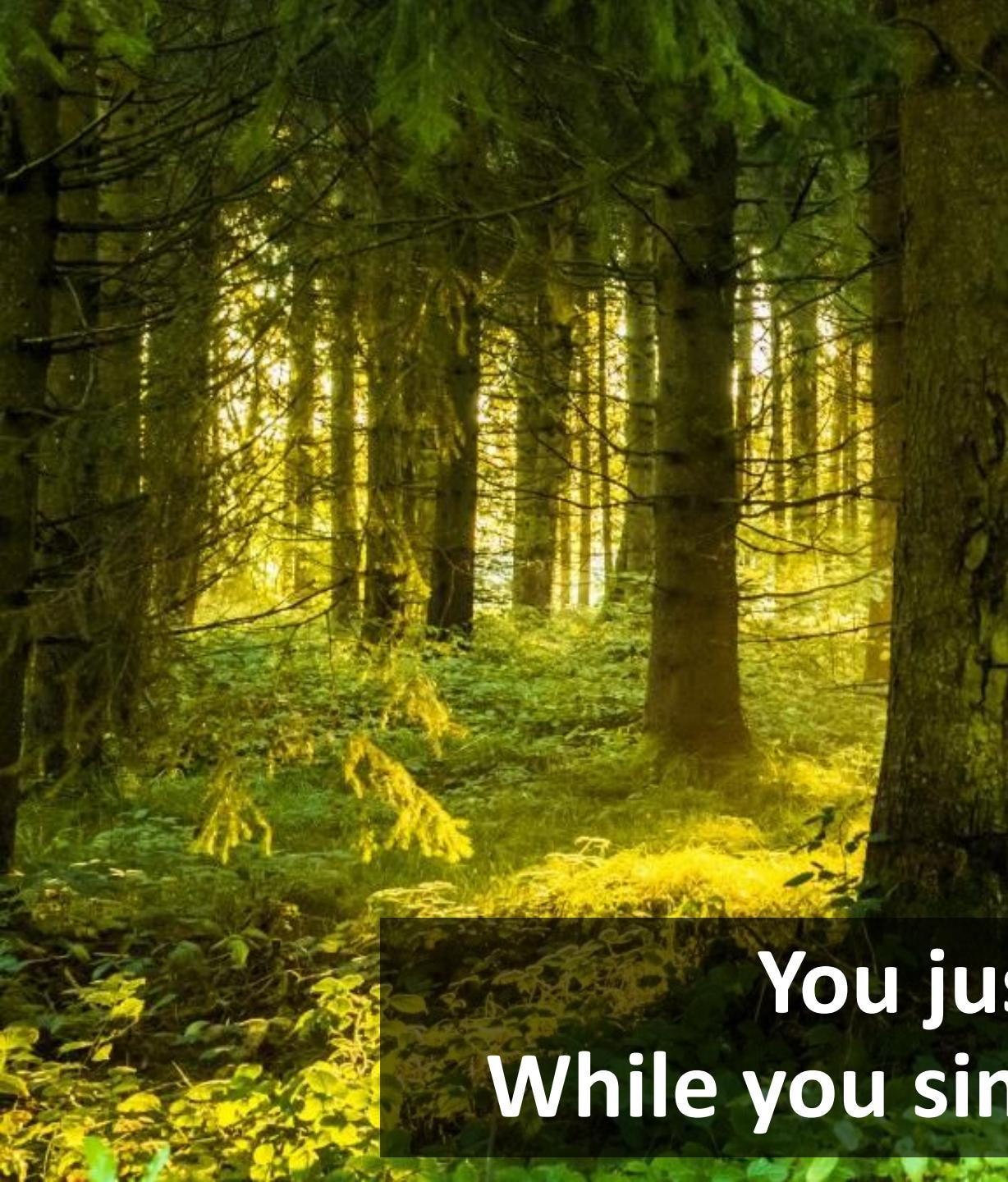
In the internet,  
no one knows  
you're a dog(e)

A photograph of a dense forest. Sunlight filters through the tall, thin trunks of the trees, creating bright vertical streaks of light against the dark green foliage. The forest floor is covered in a mix of green grass and small, leafy plants. In the foreground, there's a dark, solid rectangular area containing white text.

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.**



Trent McConaghy

@trentmc0

h/t Jan-Peter Doornenik