

# BE THE INTERNET.

Welcome to the world's largest Peer-to-Peer internet network, formed by people who want to make a difference, by people who care, by people just like you.



# 500 MILLION USD IN EXITS

Experience does matter.

2005



Data reduction and capacity optimization software for disk-based backup

ACQUIRED BY  
**VERITAS**

LATER SOLD TO



MARKET CAP USD 17B

THE CARLYLE GROUP

MARKET CAP USD 8B

2005



Managed dedicated hosting services for complex Internet infrastructures

ACQUIRED BY  
terremark **verizon**

LATER SOLD TO



MARKET CAP USD 34B

2008



Belgium's largest hosting company

ACQUIRED BY  
**telenet**

MARKET CAP USD 8B

2009



Automation of cloud computing deployment, full data center virtualization

ACQUIRED BY  
**Sun**

MARKET CAP USD 8B

LATER SOLD TO



MARKET CAP USD 205B

2015



Object storage software for public and private cloud data centers

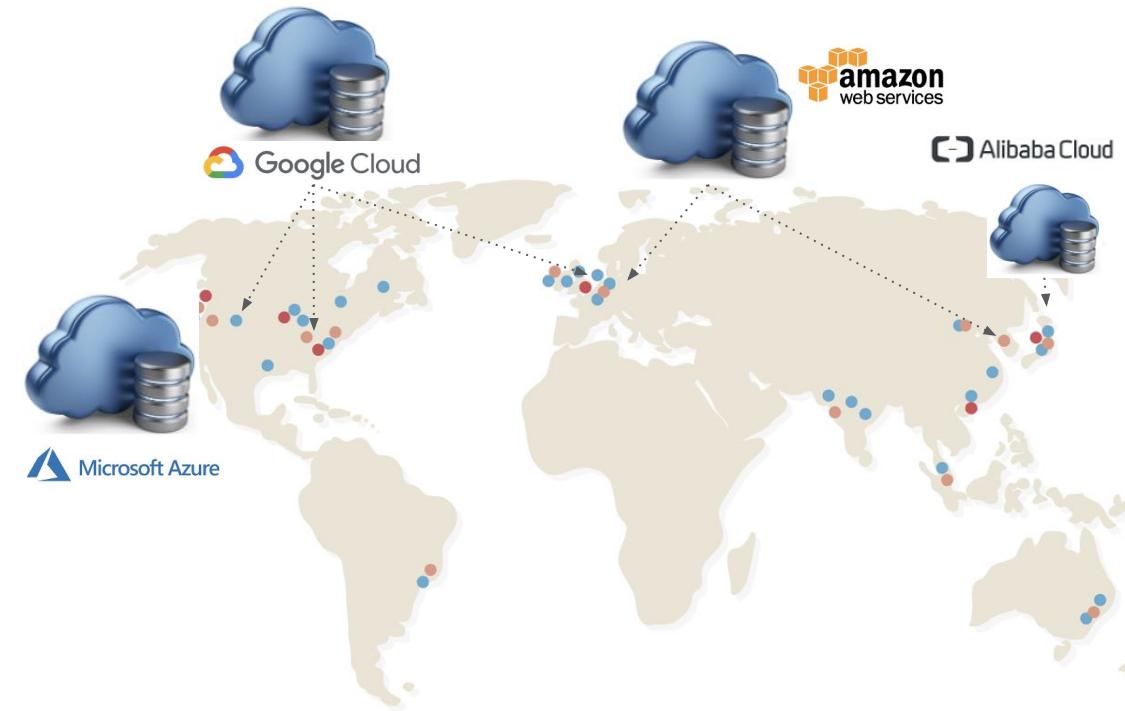
ACQUIRED BY  
**HGST**

SUBSIDIARY OF



MARKET CAP USD 25B

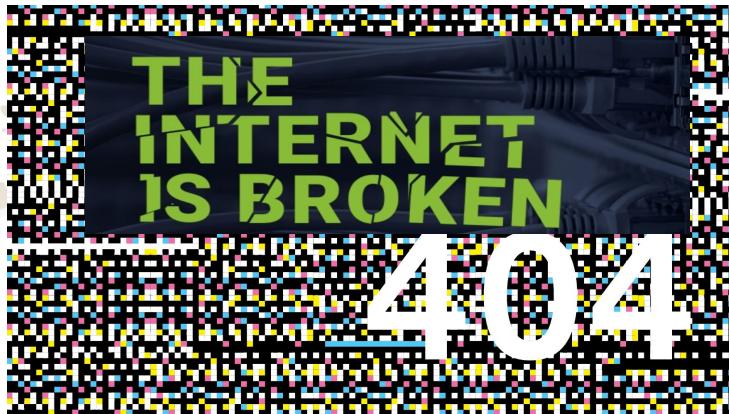
**80% of Internet/IT capacity** (compute & storage)  
is generated by less than 20 “Cloud Vendors”



Country Firewalls cut Internet Into Pieces. Encryption to be made illegal?  
Backdoors in technology. IT is way too complex & expensive.



Data centers are neither scalable nor efficient.  
They consume up to 10% world's electricity today.





WE NEED  
AN  
UPGRADED  
DIGITAL LIFE.



DATA PRIVACY & SOVEREIGNTY DOES NOT EXIST.  
WE ALL BECAME A PRODUCT IN HUGE AI DATA DRIVEN MACHINES.  
THIS NEEDS TO STOP. PLEASE WATCH "THE SOCIAL DILEMMA"

THE INTERNET HAS BECOME TOO POWER-HUNGRY.

# 2030

our goal give **1 Billion people** around the world  
green, fast, affordable Internet and education  
for less than **1 USD per month.**



#### IT IS PRIVATE.

A tamper-proof experience that allows security to coexist with efficiency.



#### IT IS EQUAL.

Scalable everywhere and to everyone.

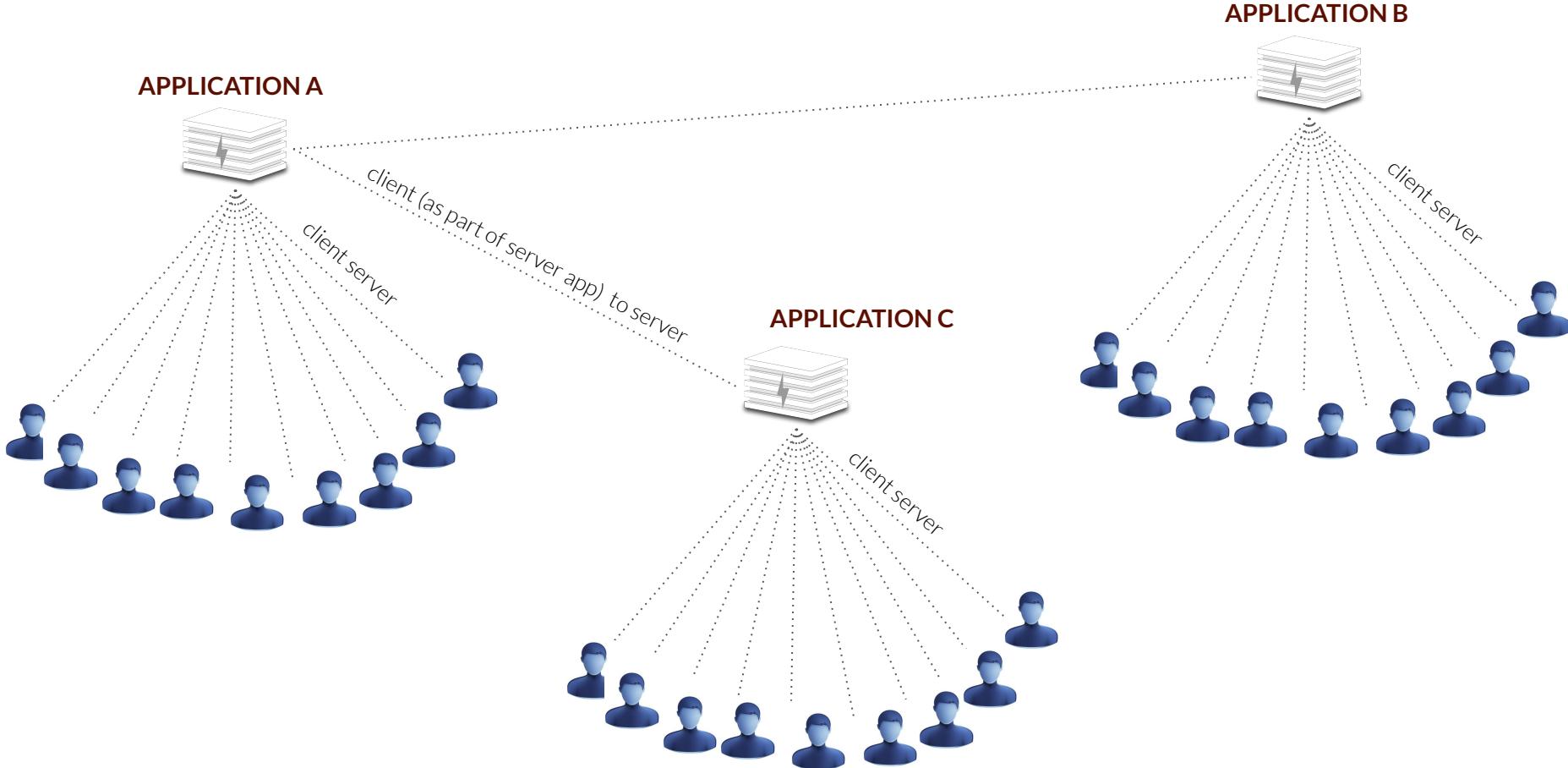


#### IT IS SUSTAINABLE.

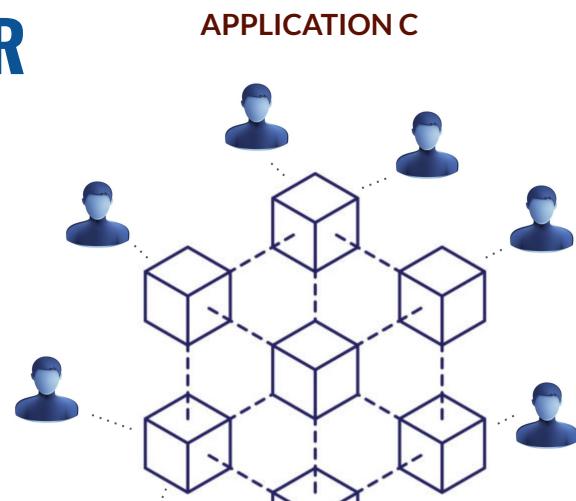
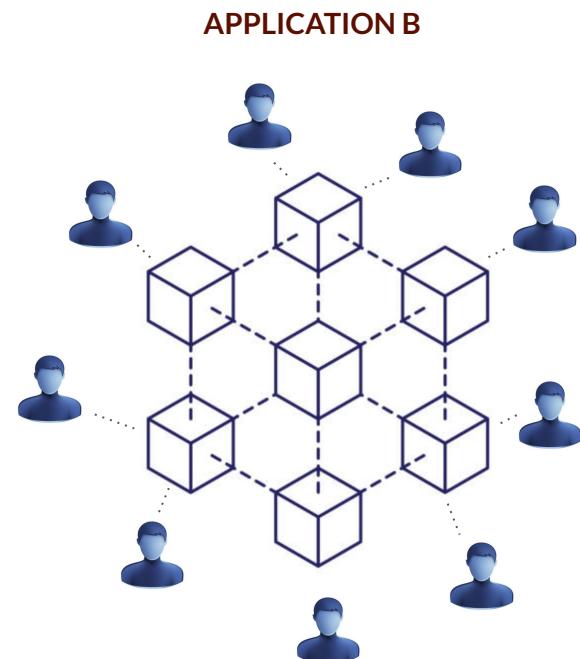
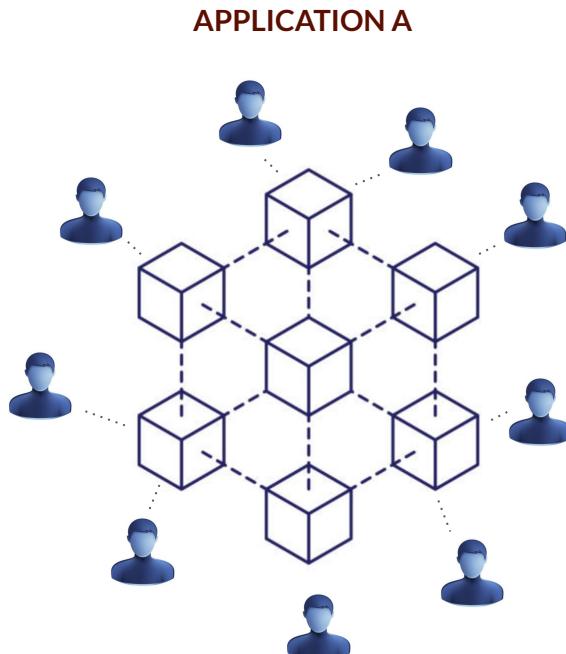
We must rethink our resource consumption if we want to save our planet.

## A PLANET POSITIVE INTERNET ENGINE

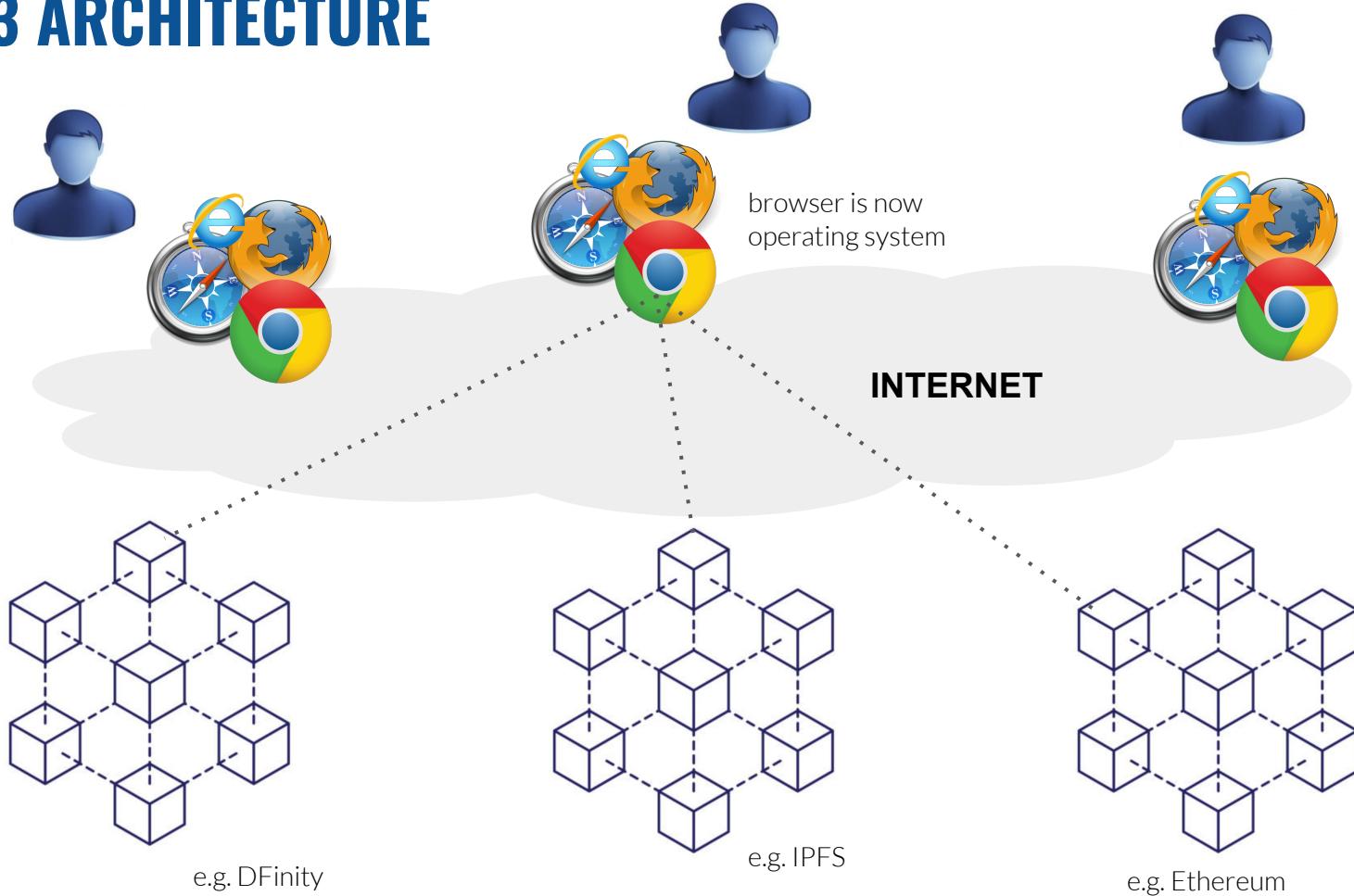
# INTERNET TODAY = 99% CLIENT SERVER



# WEB 3 = BLOCKCHAIN = STILL CLIENT SERVER



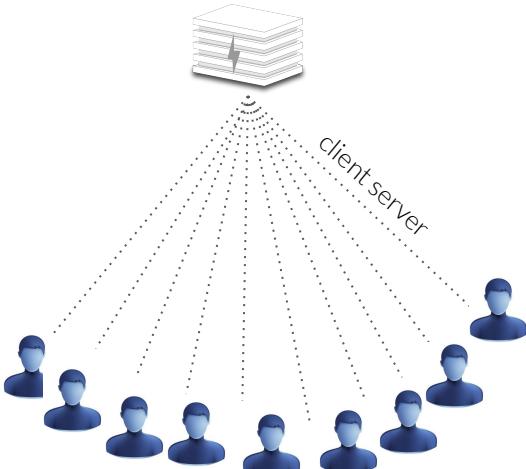
# WEB3 ARCHITECTURE



# PATH TO WEB 4.0

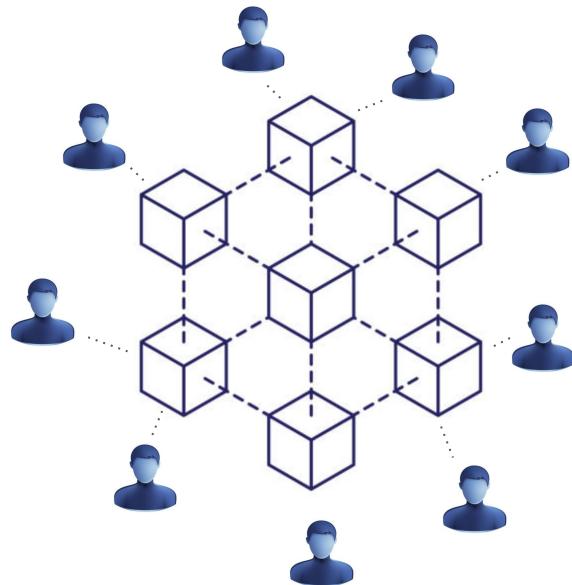
## WEB 1.0 & 2.0 CLIENT SERVER

### APPLICATION



## WEB 3.0 BLOCKCHAIN

### APPLICATION



# THREEFOLD

## WEB 4.0 PEER2PEER

Neutral & Safe  
Efficient & Green  
Fair & Reliable





## THE FIRST PLANET POSITIVE INTERNET ENGINE IN THE WORLD.

- **Data Sovereignty** for nations & people
- **Carbon neutral** internet and cloud
- **Antidote** for cyber pandemic (probably the only one in the world)
- **Unlimited scalability**, autonomous & self healing

**Proven technology with 16.000 CPU cores and 85.000.000 GB storage.**

### BE THE INTERNET:

- Become an investor in our tech company TF Tech NV.
- Buy our ThreeFold Token (TFT)
- Become an investor in our deployment of Internet capacity globally = Farming

# THREEFOLD GRID 3.0 = INTERNET AS CODE



SMART CONTRACT FOR IT

----> PROGRAM YOUR STORAGE, COMPUTE, NETWORK ENVIRONMENT

COMPUTE

STORAGE

NETWORK

ThreeFold TFGrid (Zero-OS)

# DECENTRALIZED CLOUD PROJECTS

|                   | Internet<br>Smart<br>Contract | Decentralized<br>Storage | Decentralized<br>Network            | Decentralized<br>Compute            | Decentralized<br>APPS               |
|-------------------|-------------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Akash             | <b>1.2 Bn</b><br>Market Cap   | ✗                        | ✗                                   | ✗                                   | <input checked="" type="checkbox"/> |
| Internet Computer | <b>5 Bn</b><br>Market Cap     | ✗                        | ✗                                   | ✗                                   | <input checked="" type="checkbox"/> |
| Golem             | <b>300 M</b><br>Market Cap    | ✗                        | ✗                                   | ✗                                   | <input checked="" type="checkbox"/> |
| Noia              | <b>200 M</b><br>Market Cap    | ✗                        | ✗                                   | <input checked="" type="checkbox"/> | ✗                                   |
| Siacoin           | <b>500 M</b><br>Market Cap    | ✗                        | <input checked="" type="checkbox"/> | ✗                                   | ✗                                   |
| Filecoin          | <b>4 Bn</b><br>Market Cap     | ✗                        | <input checked="" type="checkbox"/> | ✗                                   | ✗                                   |
| Helium            | <b>2 Bn</b><br>Market Cap     | ✗                        | ✗                                   | <input checked="" type="checkbox"/> | ✗                                   |

THREEFOLD



# FROM CENTRALIZED TO PEER2PEER

WHAT SOLAR PANELS DO FOR THE ENERGY INDUSTRY  
THREEFOLD DOES FOR THE INTERNET



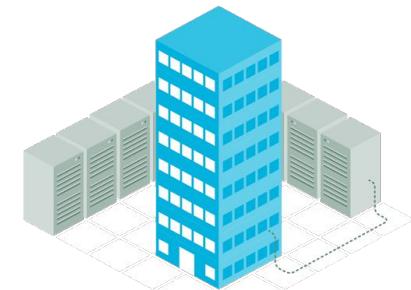
POWER PLANT



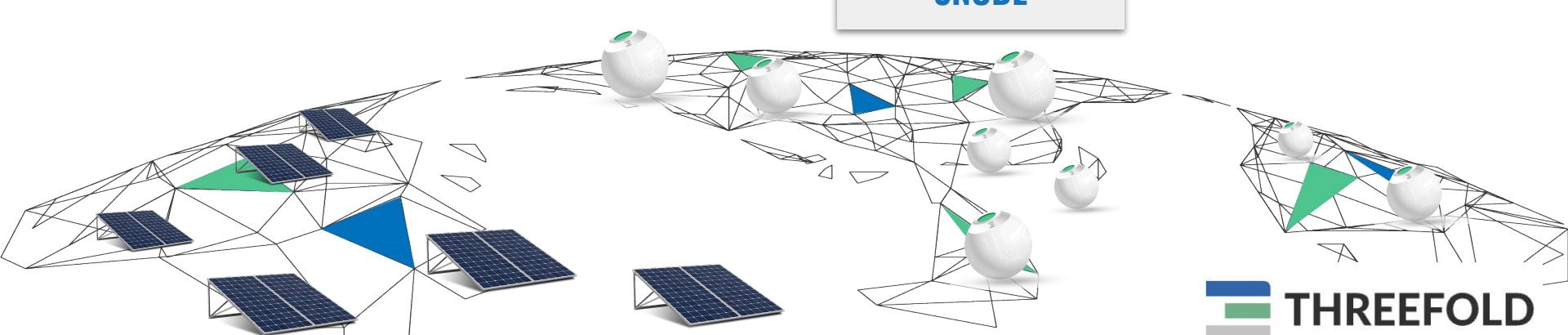
SOLAR PANEL



THREEFOLD  
3NODE



DATACENTER



THREEFOLD



## THE WORLD'S LARGEST P2P CAPACITY NETWORK

The ThreeFold Grid is the most advanced decentralized network of compute and storage on the planet, and positions itself as a more secure, performant and sustainable alternative to centralized cloud providers. It is already the largest decentralized grid on earth with about 85PB deployed in 21+ countries, and any individual or organization can already utilize the capacity for any current or future IT workload. Any application which can run on Linux can run on the ThreeFold Grid but with more privacy, security, closer to the end-user, and at a much lower cost.

**85M+**

Gigabytes  
Storage

**15K+**

CPU Cores  
Compute

**21+**

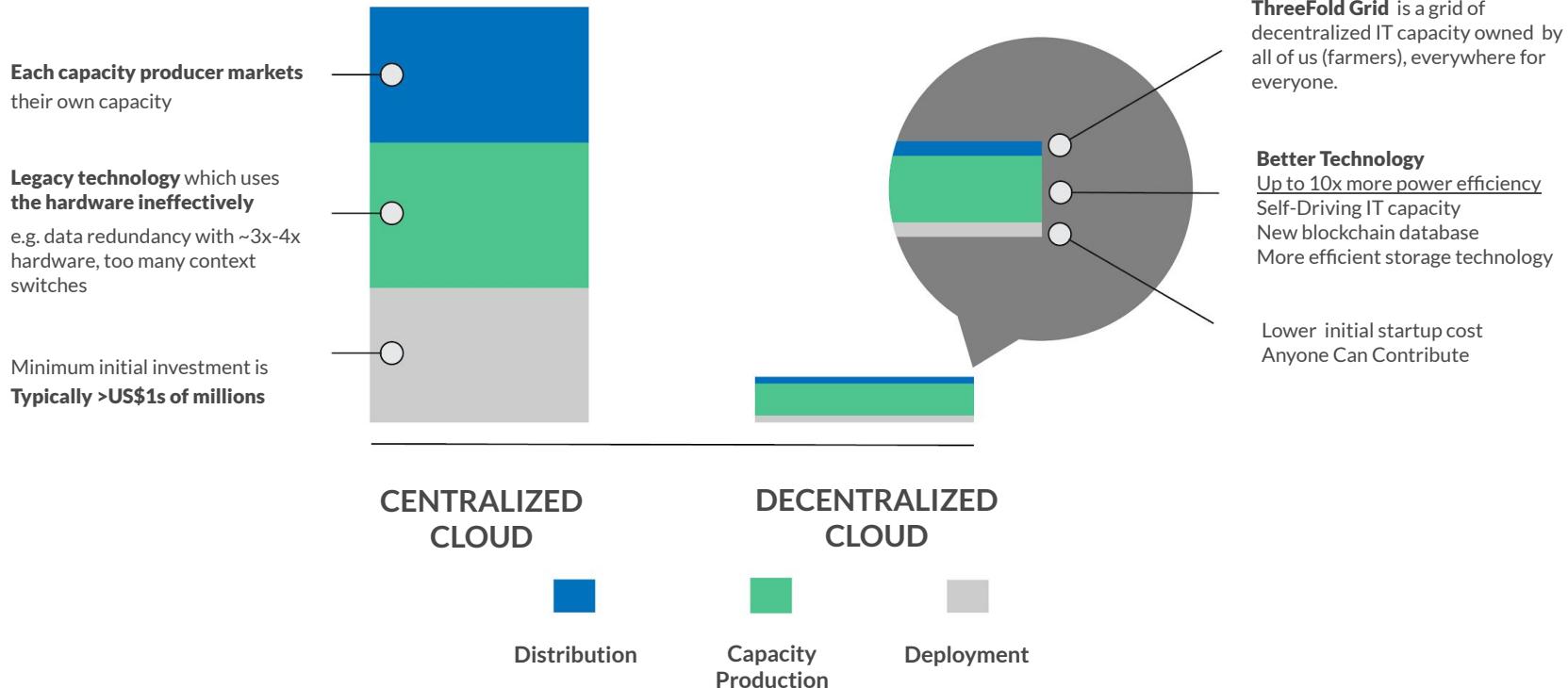
Countries



# THREEFOLD

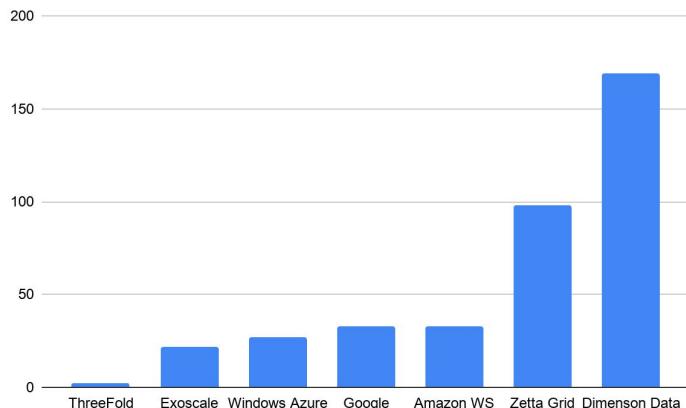
## EQUAL, SOVEREIGN, SUSTAINABLE

Building an Internet for everyone, by everyone, everywhere.



# DISRUPTIVE TECHNOLOGY PROVIDES BETTER COST BASE

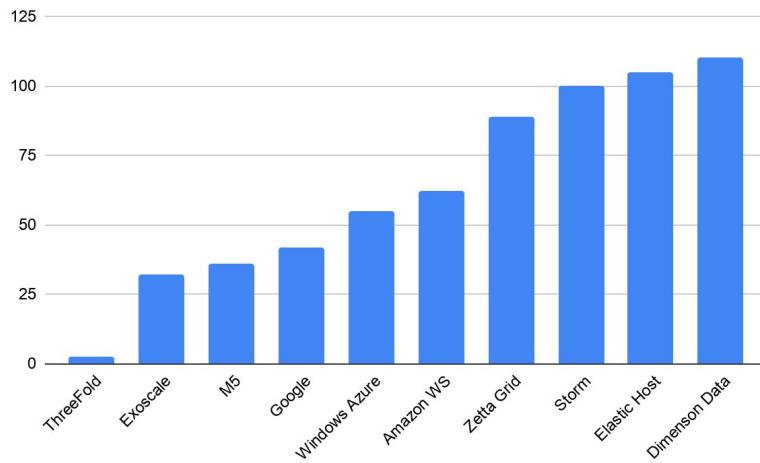
## STORAGE



Pricing is calculated for the following configuration:  
Storage: 1,000GB , Transfer: 100 GB

**Our Cost = USD 1-2 vs end user price USD 22-160**

## COMPUTE



Pricing is calculated for the following configuration:  
RAM: 4GB Storage: 200GB CPU equals Xeon E5520: 1X

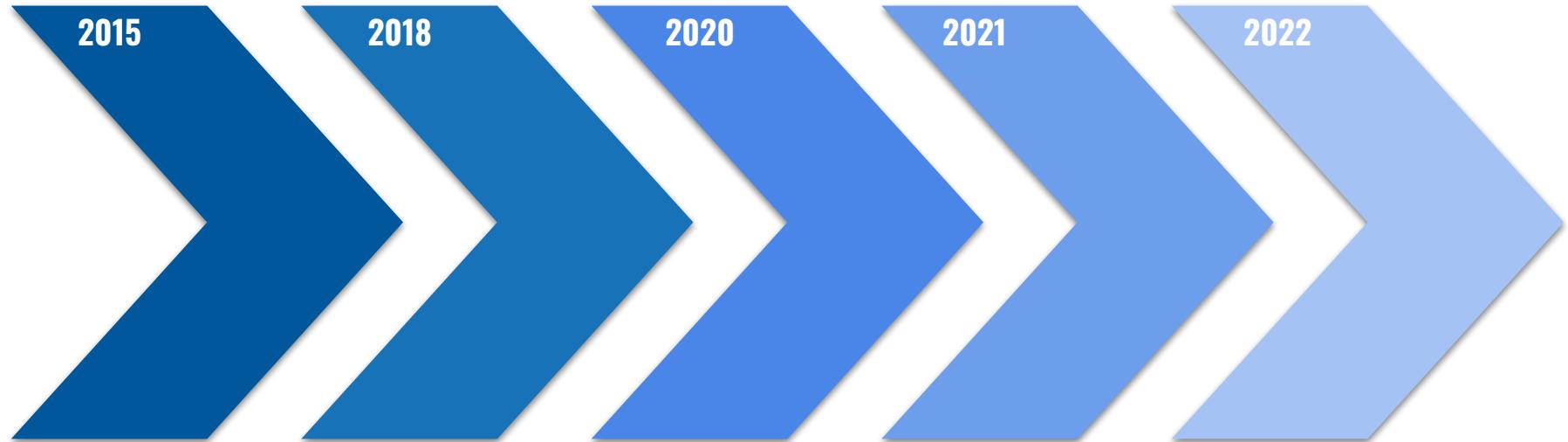
**Our Cost = USD 2.5 vs end user price USD 32-110**



comparison tool used see  
<https://www.cloudorado.com/>  
price per month in USD



# 5 STEPS TO A GLOBAL AVAILABLE PEER2PEER CLOUD & INTERNET EXPERIENCE



# USER ADOPTION +2022

**AIM: +50% OF OUR CURRENT GRID CAPACITY USED END 2022**

ThreeFold has large network of Partners to help in user adoption:

**Partner 1**  
+2.5 million Students

**Partner 2**  
+100 million Users  
of File Storage Product

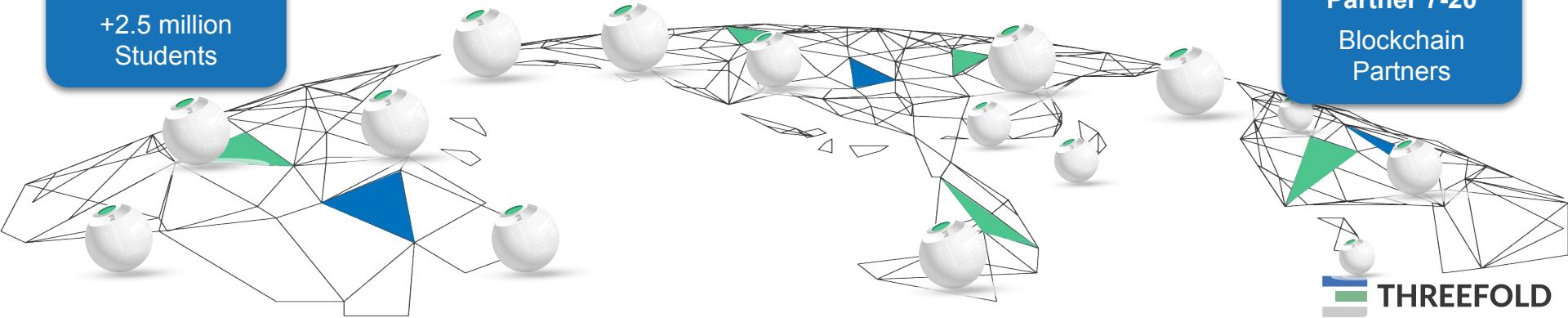
**Partner 3**  
Country

**Partner 4**  
Global Virtual Reality Platform

**Partner 5**  
Private Zoom Alternative

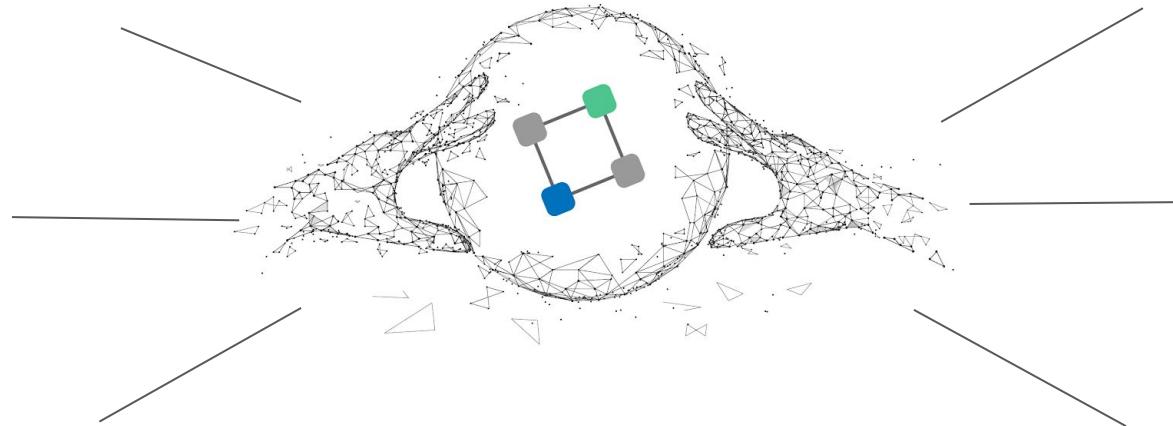
**Partner 6**  
Private Google Docs Alternative

**Partner 7-20**  
Blockchain Partners



# WE ARE THE MISSING UNIVERSAL INTERNET (CAPACITY) LAYER

The ThreeFold Grid can run **any cloud workload**,  
more secure, faster, sustainable, data sovereign





AN INTERNET BY EVERYONE  
FOR EVERYONE, EVERYWHERE



**JOIN THE MOVEMENT.**

Be part of a better tomorrow, today.



# THE TIMING IS PERFECT.

LET'S MAKE CHANGE TOGETHER.



## SOVEREIGNTY

There is now a global awareness of the value of DATA in the digital economy and the absolute necessity for data sovereignty.



## DECENTRALISATION

The desire to move away from centralised control and power is stronger than ever with many examples of decentralisation



## EDGE COMPUTING

Is an undisputed fact and is demanded by the new age of applications (e.g. IOT, 5G, AI, VR, autonomous vehicles etc)



## A NEW NORM

Covid-19 has only served to amplify our necessity on the internet and make us realise our new norm and just how digital our lives have become.

# OUR PARTNERS



CRYSTAL HOME



ARTHEON  
Museum of Arts and Culture  
in Virtual Reality



See <https://threefold.io/partners>



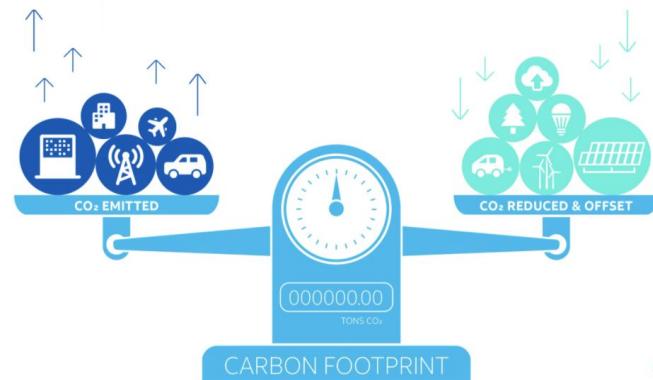
# THREEFOLD = FIRST PLANET POSITIVE INTERNET ENGINE IN THE WORLD

- Save Energy (use less energy, up to 10x)
- Use Solar and Wind where possible
- Offset lower energy usage with **3x** carbon credits

*The ThreeFold internet does not add CO<sub>2</sub> instead removes 2x more than it adds.*

- Carbon credits are “farmed” by students (TAG)
- Carbon Credits are bought with TFT
- TFT provide for a free digital life

for the student & families



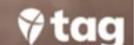


One idea can  
change the world.

students take action for people and planet.



Every small action  
makes a world  
of difference.



# TAG 2.500.000 STUDENTS



All our world's  
children: taking action.

students take action for climate  
today for a better tomorrow for us all.





THREEFOLD &

Climate Action Project

# Stopping climate change with 2.5mio students worldwide.



Dr. Jane  
Goodall



Sir David  
Attenborough



Dalai Lama



Princess  
Esmeralda of  
Belgium



Kumi Naidoo  
Director  
Amnesty  
International



THREEFOLD

## Helping +1 million farmers around the world to reclaim sovereignty.



**A secure digital identity for each farmer.**



**Designed to include illiterates.**



**Full data ownership puts them in control.**



**Fair remuneration for sharing of data.**



**Tracing of fair products worldwide.**

# / TECHNOLOGY



# THE MAGIC

DISRUPTIVE NETWORK, COMPUTE & STORAGE TECHNOLOGY



## QUANTUM SAFE STORAGE

+10x more efficient

Store Zetta Bytes of data  
so safe that even a quantum  
computer can not break it

## Unbreakable Storage

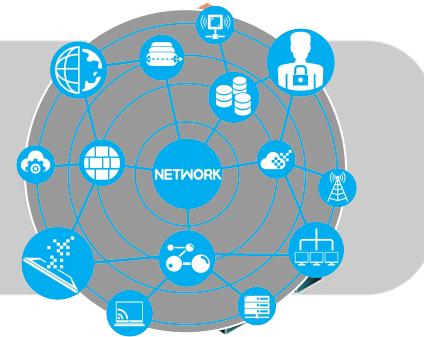


## PEER2PEER COMPUTE

Unique Internally Developed  
Operating System

## Zero Attack Surface

**Most Secure & Efficient**  
Utilization of Server Hardware



## PEER2PEER NETWORK

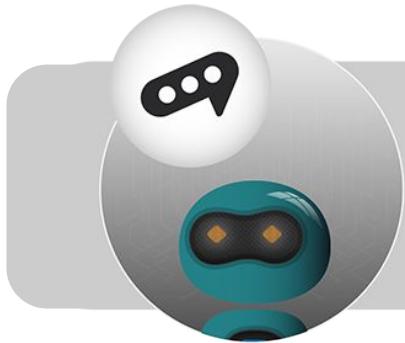
P2P end2end encrypted overlay  
Network with integrated name  
services on blockchain

Planet Global IP  
Strongly Authenticated



# THE MAGIC

## SOVEREIGNTY SOLUTION



### DIGITAL TWIN TECHNOLOGY

Digital Avatar Server Software.  
Your Digital freedom and  
sovereignty at scale

**less than 1 USD per month.**  
for your full Digital Life Enabled

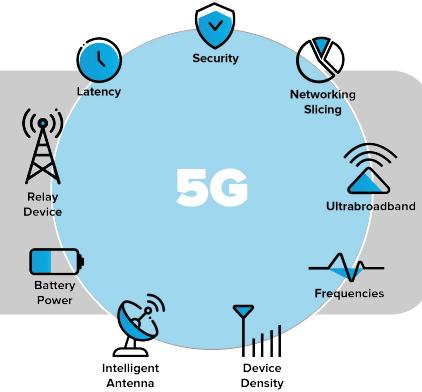


### SECURE REMOTE BROWSER ENGINE

No more javascript running in  
your browser in desktop or  
mobile.

Integrated security recording  
possibility

2 codecs available.



### 5G PERFORMANCE (\*)

on

### 4G FREQUENCIES

No health danger.  
2x more reach compared  
to current 4G

**No backdoors !!!!**

More efficient & Sustainable.

(\*) together with partner

# WEB 4.0



# A PLANET POSITIVE INTERNET ENGINE

*Result of +20 years of development*

## THE 3NODE OS = Zero-OS

OPEN SOURCE CLOUD OPERATING SYSTEM WHICH IS LOCAL, MORE EFFICIENT, SUSTAINABLE & SECURE.



3Nodes are set-up across geographical borders to form a global peer-to-peer network -- The ThreeFold Grid

Zero-OS is our stateless and lightweight open-source operating system that makes 3Nodes trustful, secure and energy efficient.

Anyone can add capacity to the ThreeFold Grid.

## YOUR DIGITAL TWIN

BE IN CONTROL OF YOUR DIGITAL LIFE. FROM SOCIAL DILEMMA TO SOCIAL FREEDOM.



For your DATA and any Digital Life EXPERIENCE.

Your digital avatar -- all you need in 1 place. From APP centric to Human Centric.

Giving room for a global ecosystem to create experiences, but you remain the orchestrator of your digital life.

25 Digital Twins consume the same amount of energy as a light bulb.

## DOUBLE CARBON WIN:

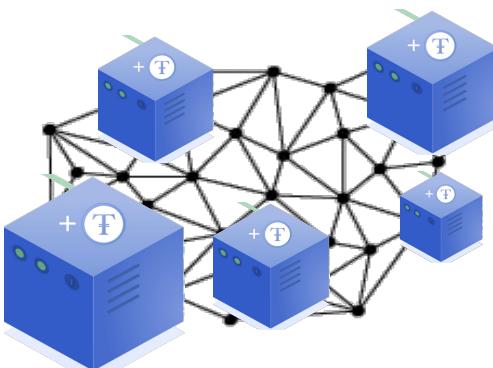
THE THREEFOLD INTERNET DOES NOT ADD CO<sub>2</sub>, BUT REMOVES 2X MORE THAN IT ADDS.

# THREEFOLD IS INSPIRED BY NATURE

3Nodes = ENERGY, SPACE

deliver the required IT energy  
for a new conscious internet.

Each 3Node is a computer delivering  
storage, compute & network capacity.

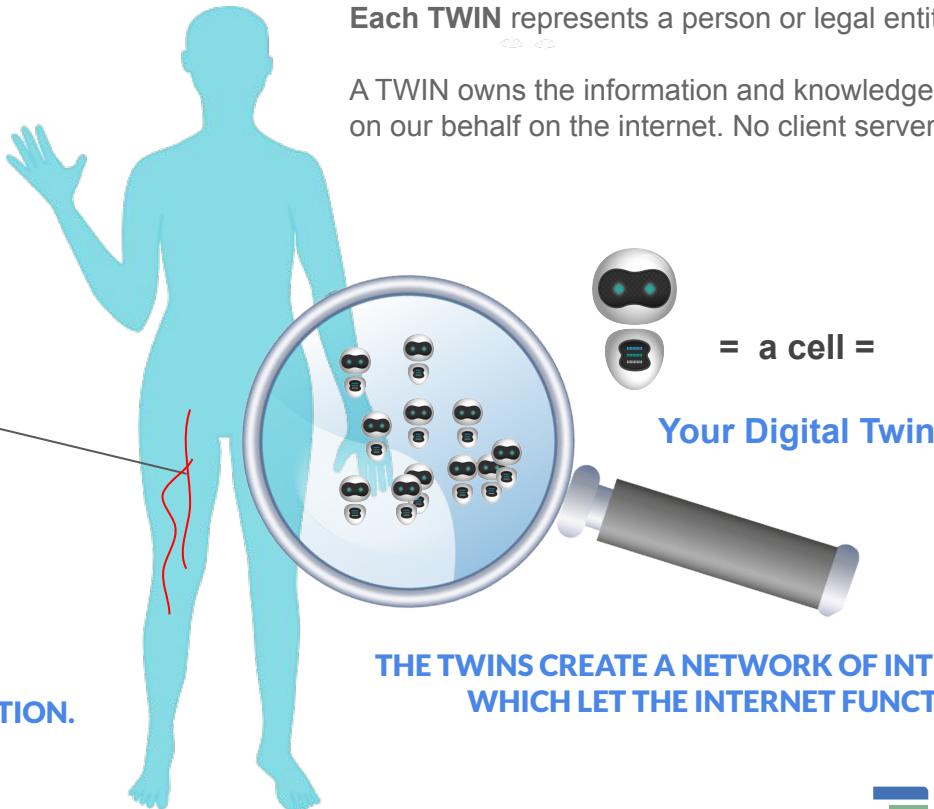


THE 3NODES DELIVER THE REQUIRED  
SPACE & ENERGY FOR THE FREEFLOWS TO FUNCTION.

A DIGITAL TWIN IS LIKE A CELL IN OUR BODY

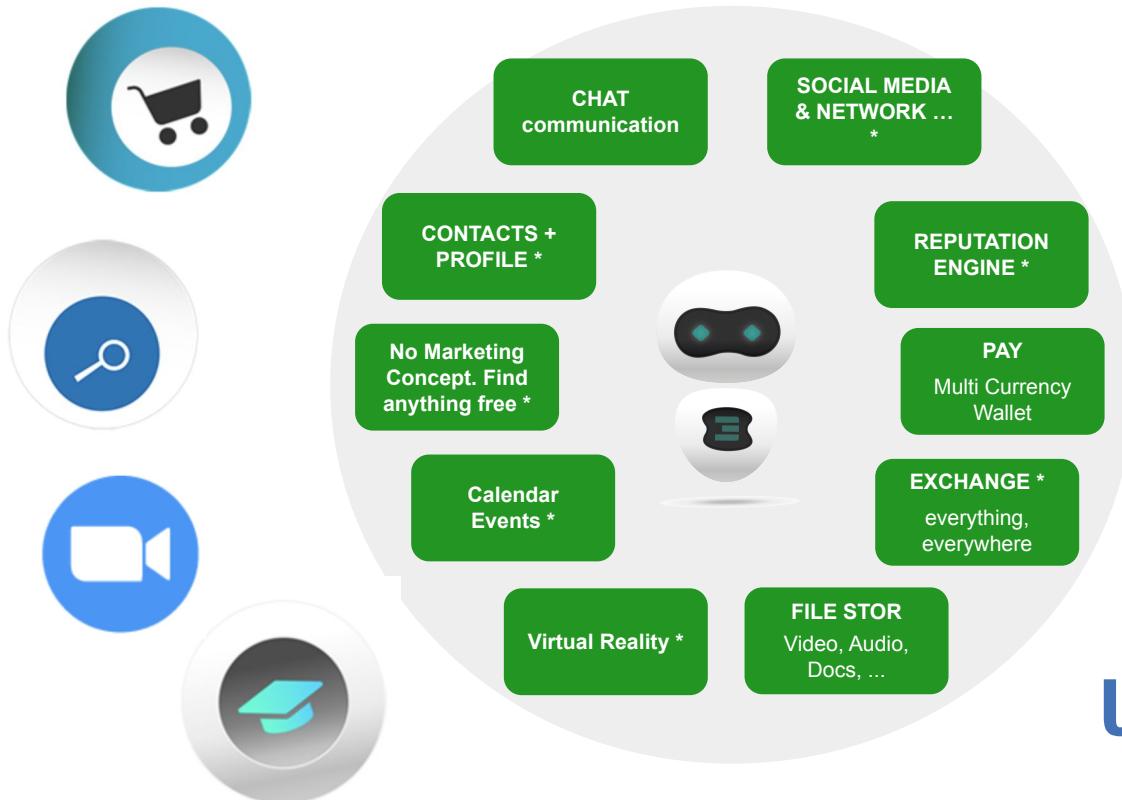
Each TWIN represents a person or legal entity.

A TWIN owns the information and knowledge required to act  
on our behalf on the internet. No client server required !



THE TWINS CREATE A NETWORK OF INTELLIGENCE  
WHICH LET THE INTERNET FUNCTION

# YOUR DIGITAL TWIN CAPABILITIES GROW ...



**MILLION OF  
EXPERIENCES  
USE THE CAPABILITIES**

# YOU IN THE CENTER OF YOUR DIGITAL LIFE



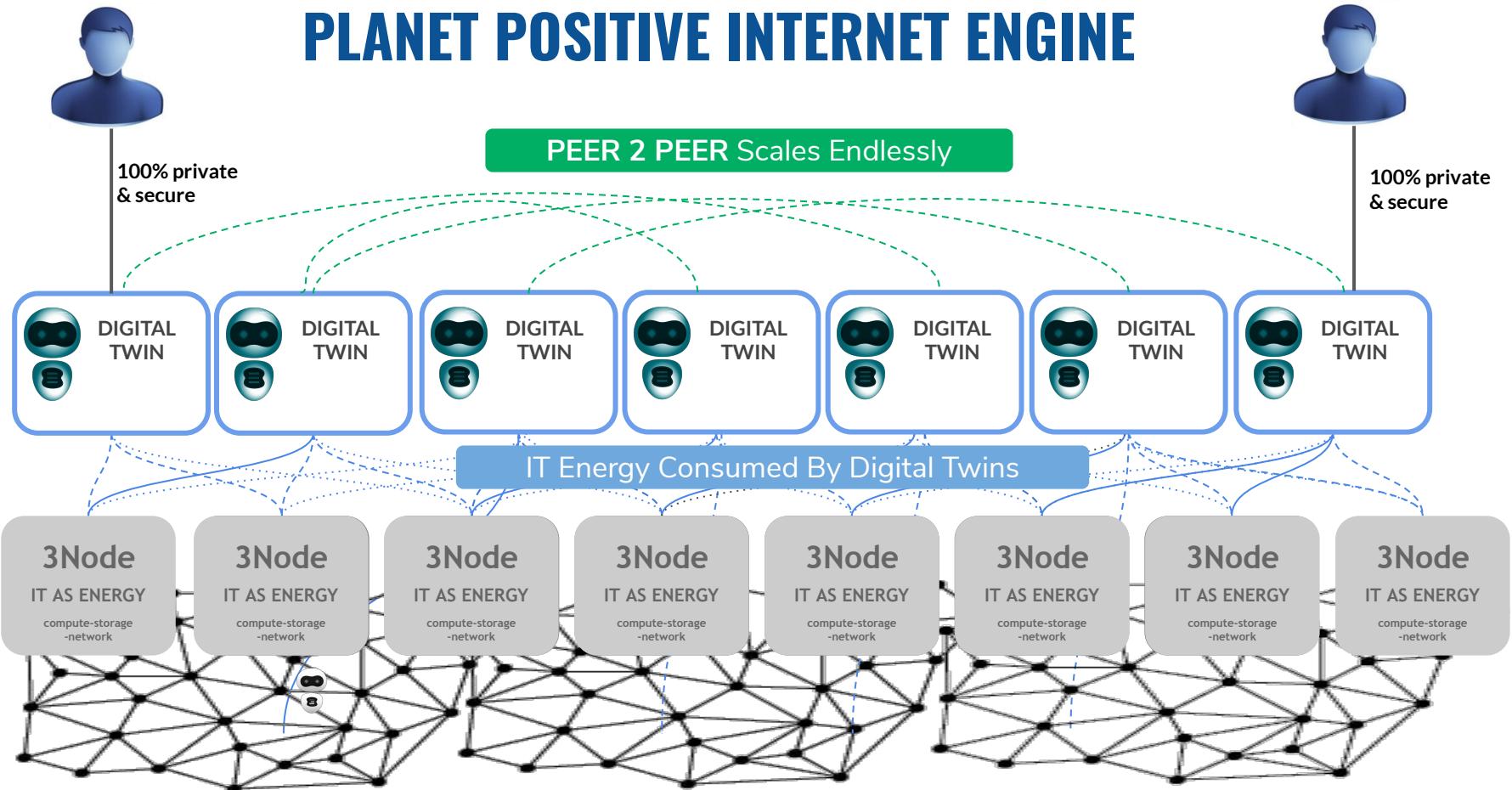
any  
browser

your private  
digital  
twin

all digital life  
logic & storage  
only lives in  
private  
digital twin

direct secure  
connection to any  
other  
digital twin

# PLANET POSITIVE INTERNET ENGINE

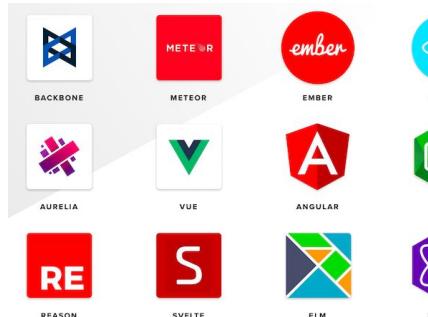




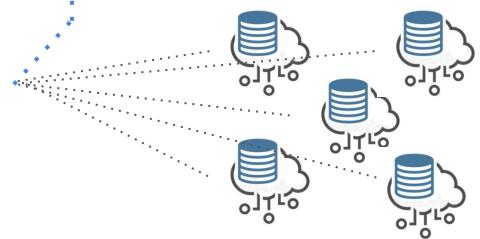
EXPERIENCES  
NOT APPS

your full digital life  
100% owned by  
you

ANY EXISTING  
WEB  
FRAMEWORK  
CAN BE USED  
TO CREATE THE  
EXPERIENCES



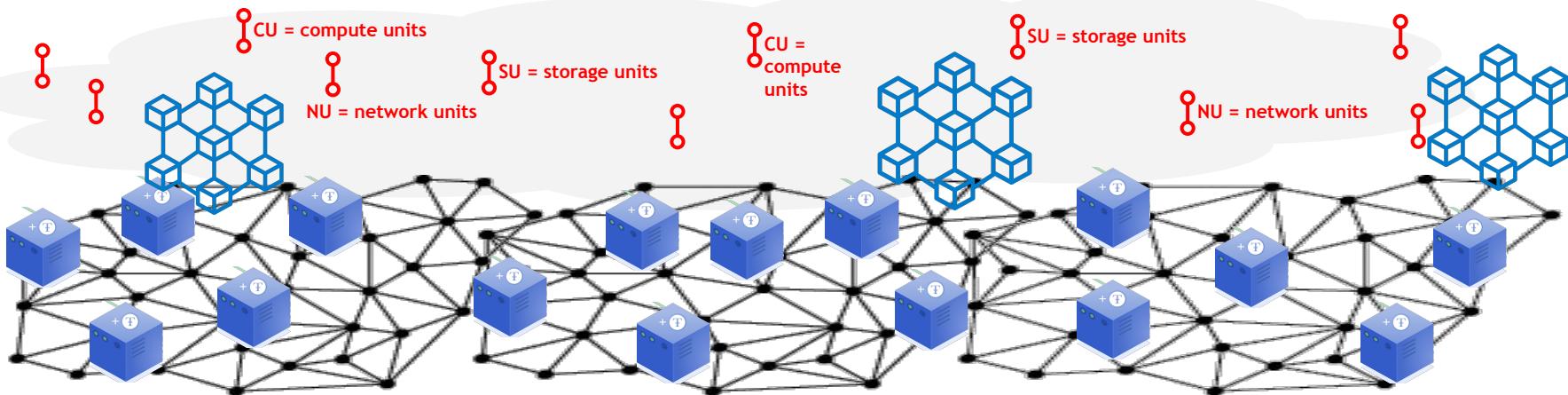
SHORTEST PATH  
PEER2PEER  
COMMUNICATION  
NO SSL KEY  
EXCHANGE



ANY WEBSITE OR JAVASCRIPT APP  
CAN INTERFACE  
WITH THE Digital Twin



ANY APP WHICH RUNS ON LINUX  
CAN RUN ON THE THREEFOLD GRID



THREEFOLD

IT AS ELECTRICITY LAYER

# TF Grid 3.0 + ecosystem

**QSFS**

(D3/TFTech)

**TF IAC = 3Bot**

(TFTech)

**Digital Twin**

first set of  
experiences  
(accelerator)

**TF Cloud**

(D3/TFTech)

eVDC+...

**Alliance For  
Conscious  
Internet**

ARTHEON  
KUTANA  
BROWSER

...

**OpenNebula**

(TFTech)

**Incachain**

prod: incaspHERE

**OwnCloud**

(TFTech)

**Smart Contract for IT Concept**

**TFChain (Substrate) + TFGrid DB**

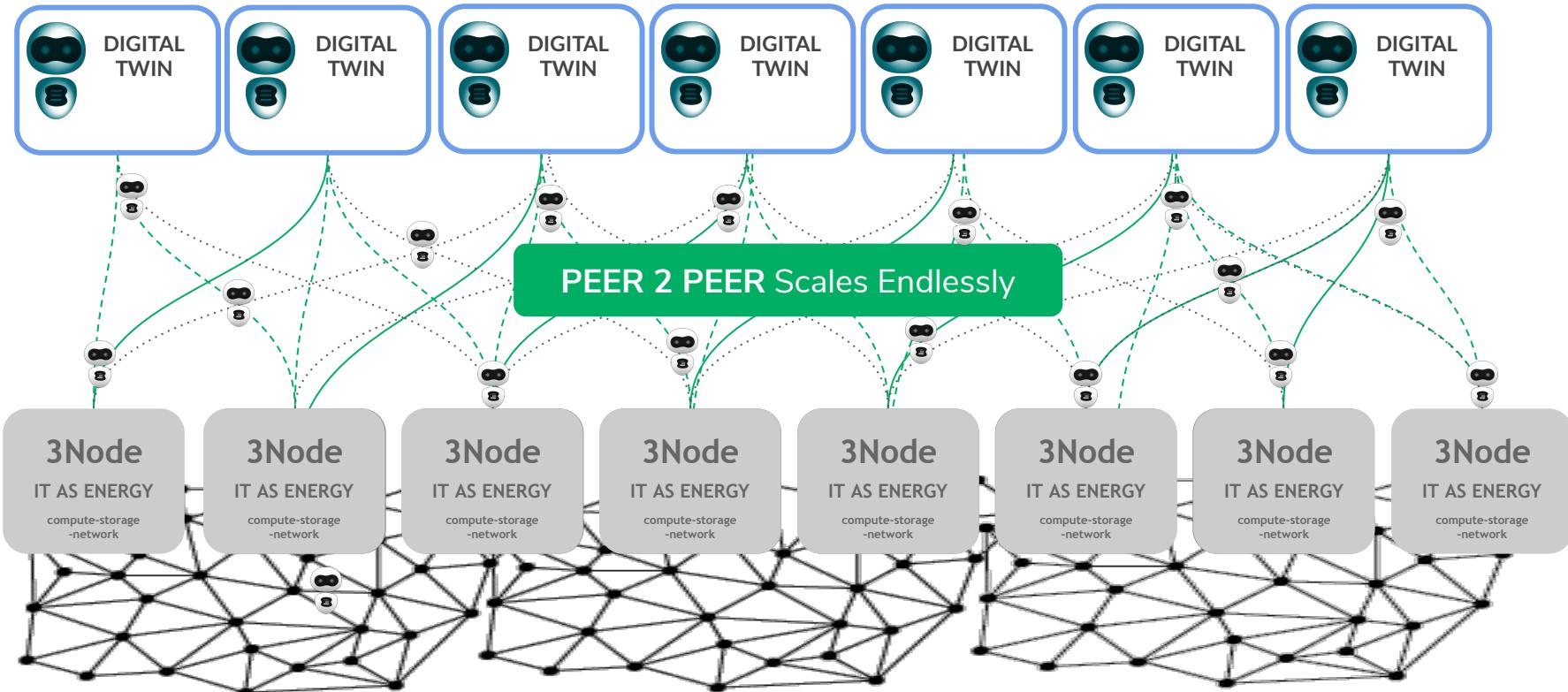
**COMPUTE**

**STORAGE**

**NETWORK**

**ThreeFold TF Grid (Zero-OS 3.x)**

# ENDLESS SCALABILITY, SECURE, GREEN & ULTRA RELIABLE



# BENEFITS

Our software technology stack enables truly decentralized peer-to-peer network, compute and storage capacity.



## SOVEREIGN

local to you,  
in line with  
regulations.

## PRIVATE

only you own your  
data and your  
digital experiences.

## AUTONOMOUS

self-driving and  
self-healing.

## DECENTRALIZED

the system is owned  
by all of us and  
available  
everywhere for all.

## COST EFFICIENT

2 to 10x more cost  
efficient. Equal  
chances for all.

## SUSTAINABLE

planet, eco friendly  
and energy efficient.  
Upto 10x savings.

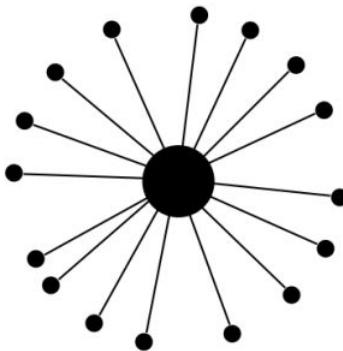
## ENDLESSLY SCALABLE

Linear scalable.  
No Bottlenecks.  
Peer2Peer

## SECURE

many unique features  
provide for potentially  
the most secure  
platform in the world.

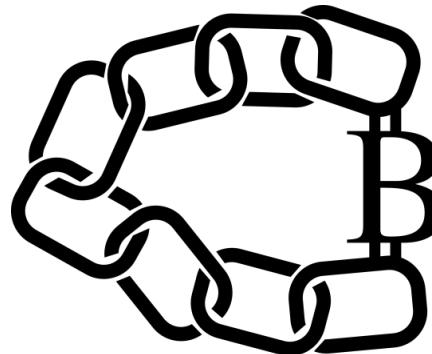
# CENTRALIZED AS WE KNOW "IT"



## Centralised Data:

- Star/Pyramid systems =
- People driven.
- Way too complex.
- Centralized Data
- Often Power Hungry
- Can Be Slow & Unscalable
- Expensive

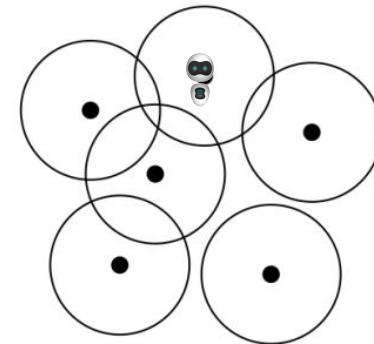
# DISTRIBUTED/SHARED BLOCKCHAIN



## Shared Data:

- Perfect for money & smart contracts
- Has limits in relation to usage for digital twin and cloud usecase.
- Often not decentralized, sovereign & private.

# PEER2PEER THREEFOLD



## Living Grid Of Intelligent Cells Usable for Secure Cloud & Digital Twin

- Super secure & private
- Green (upto 10x power savings)
- Unlimited Scalable / Fast
- Self Healing & Cost Effective
- Sovereign & Decentralized

INTERNET 1.0/2.0

BLOCKCHAIN + INTERNET 3.0

INTERNET 4.0

## THREEFOLD PEER2PEER CLOUD and DIGITAL TWIN

**A 100% re-invented technology stack delivers true change.**

|                                   | THREEFOLD GRID +<br>DIGITAL TWIN          | BLOCKCHAIN<br>Storage or Compute    | TRADITIONAL<br>Centralized Cloud |
|-----------------------------------|---|-------------------------------------|----------------------------------|
| Company                           | ThreeFold Technology                      | Sia, FileCoin, Golem, Dfinity, ...  | Amazon, Alibaba, Google          |
| Number of Transactions per Second | Unlimited because of scale out            | Limited to design of blockchain.    | Unlimited                        |
| Response Times                    | < 100 ms because more local               | Typically Slow                      | < 200 Milliseconds               |
| Decentralized / Neutral           | YES                                       | SOMETIMES                           | -                                |
| Blockchain Secure                 | YES                                       | YES                                 | -                                |
| Zero People and 100% Self-Healing | YES                                       | SOMETIMES                           | -                                |
| Tokenized by Digital Currency     | YES                                       | YES                                 | -                                |
| Privacy                           | YES                                       | encryption based, but privacy leaks | -                                |
| Featureset                        | Good Enough                               | Limited                             | Overwhelming but complex         |
| Cost Efficiency                   | Better than Cloud                         | Better than Cloud                   | Expensive                        |
| Empowers Peer2Peer Web            | YES                                       | YES                                 | -                                |
| Energy Efficient & Green          | YES (upto 100x better)                    | -                                   | -                                |
| Actual Capacity Deployed          | 18k CPU cores<br>90.000.000 GB of storage | Growing                             | Large but Mostly Centralized     |
|                                   |   |                                     |                                  |

# BUT THERE IS A DIFFERENCE !!!!

## WHAT SOLAR PANELS DID FOR THE ENERGY INDUSTRY - WE DO FOR INTERNET CAPACITY

**ROI = 10-20%**  
Per Year



SOLAR PANEL

**ROI = 300-1000%**  
Over 5 Year



THREEFOLD NODE

