ThreeFold Intro
An upgraded Internet created by everyone for everyone

ThreeFold believes that upgrading the current Internet to a more peer2peer experience will lead to huge improvements in the following areas:

- **Energy**: save 1000x energy (no need to build new huge datacenters)
- **Data Ownership/Sovereignty**: for existing nations and global citizens (don't be a product)
- **InEquality**: education for all, equal access to information, e-business & e-finance.

THE REASON WE DO THIS

Our dream is a complementary responsible Internet, everywhere and owned by everyone, without borders nor geographical discrimination. We envision a future where all humans are given an equal opportunity to partake, learn, and succeed.

Why do we need an upgraded internet?

Energy

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Internet Uses More Than 10% Of The World's Electricity

VERA P. JENSEN · ISB | CULTURE · 14. Mar. 2019

Around 10% of the world's total electricity consumption is being used by the internet, according to a recent research report from Swedish KTH.

The numbers have grown from 8% in 2012, illustrating the increasing effects of the internet's rapid growth.

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Swedish researcher Anders Andrae, expects industry power demand to increase from 200-300 terawatt-hours (TWh) of electricity a year now, to 1,200 or even 3,000TWh by 2025. Data centers on their own could produce 1.9 gigatonnes (Gt) (or 3.2% of the global total) of carbon emissions, he says.

"The situation is alarming," said Andrae, who works for the Chinese communications technology firm Huawei. "We have a tsunami of data approaching. Everything which can be is being digitalized. It is a perfect storm. 5G [the fifth generation of mobile technology] is coming, IP [internet protocol] traffic is much higher than estimated, and all cars and machines, robots and artificial intelligence are being digitalized, producing huge amounts of data which is stored in data centers."

US researchers expect power consumption to triple in the next five years as one billion more people come online in developing countries, and the "internet of things" (IoT), driverless cars, robots, video surveillance and artificial intelligence grows exponentially in rich countries.

Source: the guardian (2017)

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The Issue
- The Internet will consume +30% of energy production in the world if we don't drastically change the way we produce internet capacity.

The Status Quo
- Build more efficient datacenters
- Use more Solar or other renewable sources of Energy for the datacenters

Reality Check
- This will lead to maybe 10% savings towards the future, this is not what we need.
- It's not possible yet to use Solar for most existing datacenters, they consume too much.

The ThreeFold Approach
- Don't build big datacenters, they are not needed.
- Focus on how energy is used.
- Introduce 10-10.000 X energy savings

Data Ownership/Sovereignty

THEY TOOK YOUR DATA.
THEN THEY TOOK CONTROL.

A NETFLIX ORIGINAL DOCUMENTARY

THE GREAT HACK

From the Academy Award®
nominated filmmakers behind THE SQUARE

- [Eurozine](#)
- [The Next Web](#)
- [Forbes](#)

The bad headlines continue to stack up for Facebook this year: from the Cambridge Analytica scandal to the New York Times report that Facebook gave Apple, Samsung, and other mobile device makers access to its users personal data without permission, to the revelation that the firm routinely gives user information and preferences to several Chinese telecommunications firms, to last week's security breach in which hackers took control of 50 million user accounts as well as any third-party sites those users logged into via Facebook. WIRED has called the sophisticated attack an "internet-wide failure" with complex and far-reaching consequences.

The practice of collecting personal data and then selling it to advertisers and analytics firms is not going to end because that's been their business model from the outset.

Only now, are we realizing how impactful it is to us when our personal data is sold to people and organizations who don't have our best interests in mind. As long as we're enjoying the fruits of a free internet that's fundamentally being paid for by advertising, products like Facebook, Twitter, and other "free" sites are going to continue to do things that don't always align with our interests.

The question is, what are we going to do about it?

Personal data has become incredibly valuable. As AI, voice recognition software, robotics, and other technologies become more sophisticated, we have the ability to create much more data around our behavior. And the new generation of apps needs that data as fuel.

The Issue
- Countries are dependent on some large scale companies for their information technology, it makes them dependent and it might lead to abuse.
- It's not cost effective.
- We don't own our data.

The Status Quo
- Stronger regulation
- Use blockchain
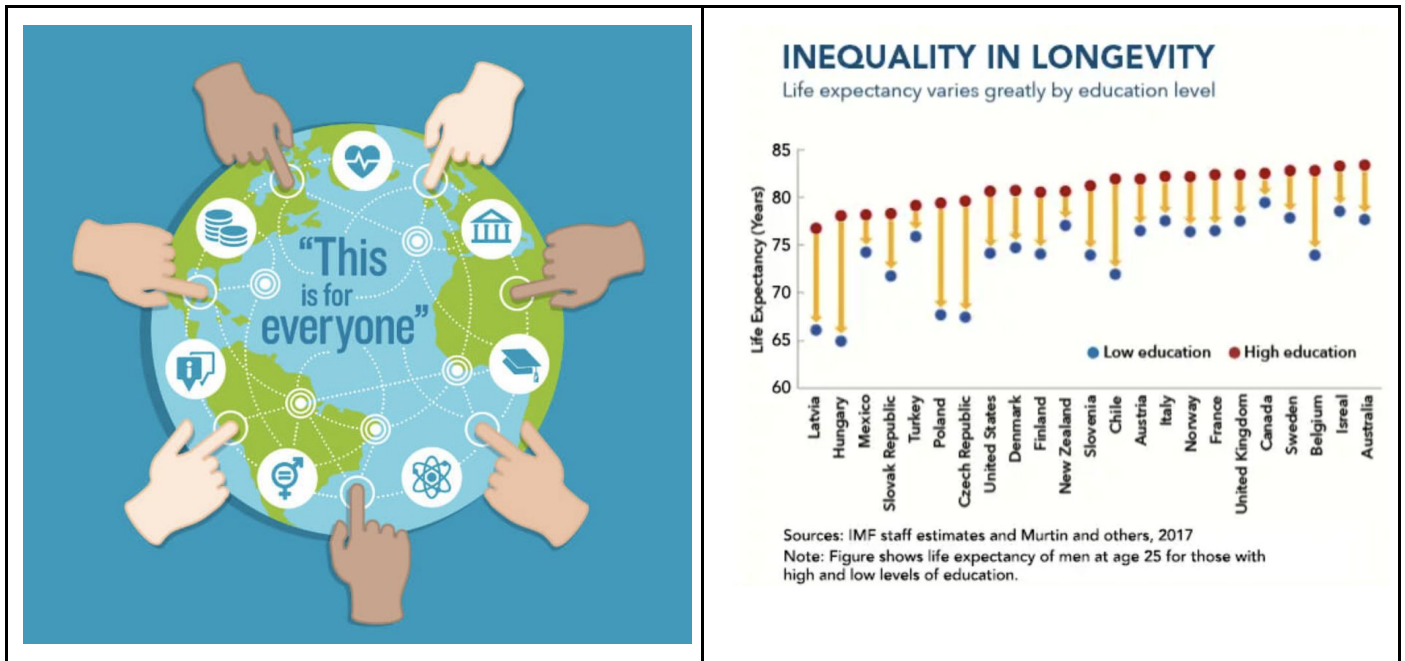- Cut the internet into pieces (China, Russia, …)

Reality Check
- Regulations cannot solve this problem, it only puts more power in the hands of the giants, they have the means to fight & work around it
- Blockchain can't resolve this problem, it's not efficient & decentralized enough.
- Cutting the internet into pieces is the worst possible solution for our world.

The ThreeFold Approach
- Completely reinvent the way how our digital life gets delivered.
- From pyramids to circles, from app-centric to human-centric.
- Allow nations to deploy meaningful solutions to protect their sovereignty and national security.

Inequality

The Issue
- +50% of the world population has no equal access to education, information, commerce and banking solutions.

The Status Quo
- Promote SDG = Sustainable Development Goals
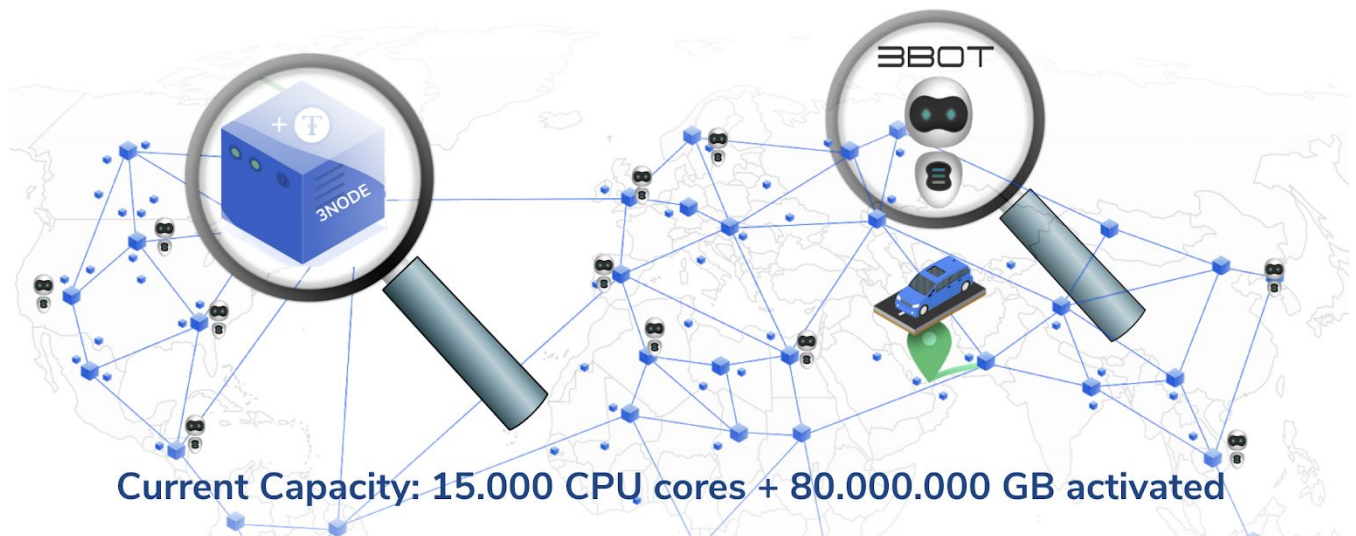- Big Funding Projects
- Use blockchain

Reality Check
- A lot is already happening, but we believe that a neutral internet with a real peer 2 peer economy is the most efficient way to help solve Inequality.
- Blockchain is a part of the solution but way too limited.
- Often impact of investment $$$ is not big enough, more efficient mechanisms need to be created.

The ThreeFold Approach

- A true Peer2Peer economy can help everyone in the world with equal chances.
- Cost of digital life < $1 per person per month for all requirements.
- All education/information available for everyone everywhere
- Conscious Digital Currencies can be exchanged without manipulation.
- Smarter ways how to allow anyone to exchange value (business)
- Reasonable solutions for identity (e.g. for refugees, …)
- Access and creation of data owned by all lead to more insight & practical solutions.
- Work with nations/governments to resolve their practical problems.

THE UPGRADED INTERNET PHASE 1, IS ALIVE

Current Capacity: 15.000 CPU cores + 80.000.000 GB activated

Our first phase of the upgraded internet is already functioning in +20 countries. ThreeFold independent farmers (miners) have invested more than 20m USD of hardware to make this possible. By providing internet (compute, storage) capacity, farmers, farm (mine) a digital currency called TFT (ThreeFold Token). TFT is the currency of our upgraded internet. In April 2020, our token TFT will launch on public exchanges.

THREEFOLD EVOLUTION

Our technology is the result of nearly two decades of work and innovation. We have a strong foundation and a bold vision.

We believe the world needs a decentralized Internet, to bring sustainable and neutral access to information and education for our generations and those to come. And we at ThreeFold are committed to providing you with complementary solutions.

Let us take you through our journey until now, and where we are headed, together.

2000s
Before ThreeFold saw first daylight, predecessor companies were making waves in the storage, automation, and cloud computing landscapes.

2016
Three separate elements (Zero OS, Rivine, and JumpScale) were created and with time turned into the three core aspects of the TF Grid.

2017
The concept of the ThreeFold Network becomes a reality, through the publication of white paper 0.9. Release of the TF Chain. First tokens are created.

2018
The first batches of capacity are added to the TF Grid in different parts of Europe and the UAE, soon followed by the U.S. and Canada.

2018
ThreeFold signs two major partnerships (HPE & Solidaridad) in short succesion and signs on a major capacity farmer.

2019
The ThreeFold Grid goes into beta and the first test users are taking it for a spin.

2020
With the global introduction of the 3Bot, the ThreeFold Network begins to see user adoption. Developers builds ADapps on top of the ThreeFold Grid.

2025
1 Billion people around the world have access to a green, fast, and affordable Internet and education solutions.

2030
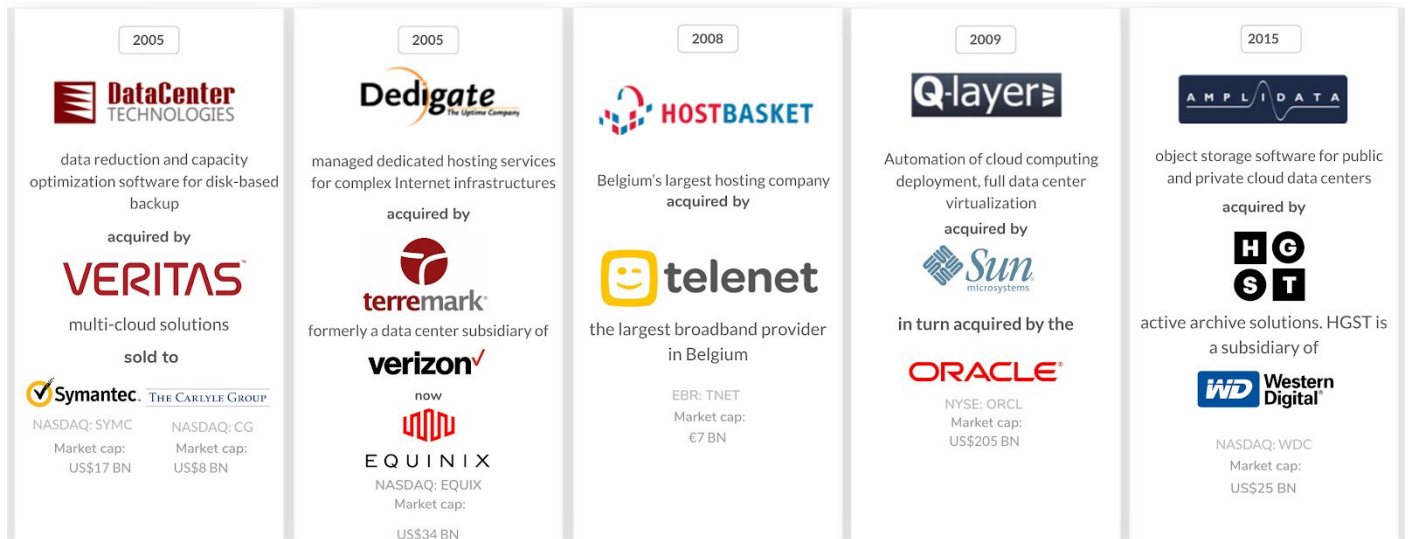The vision of a fully decentralized and democratized Internet, for you and owned by all of us, is achieved.

The TFT will launch at USD0.15. We are looking for investors willing to underwrite our public token launch event in April 2020. To learn more about the token economics please contact us.
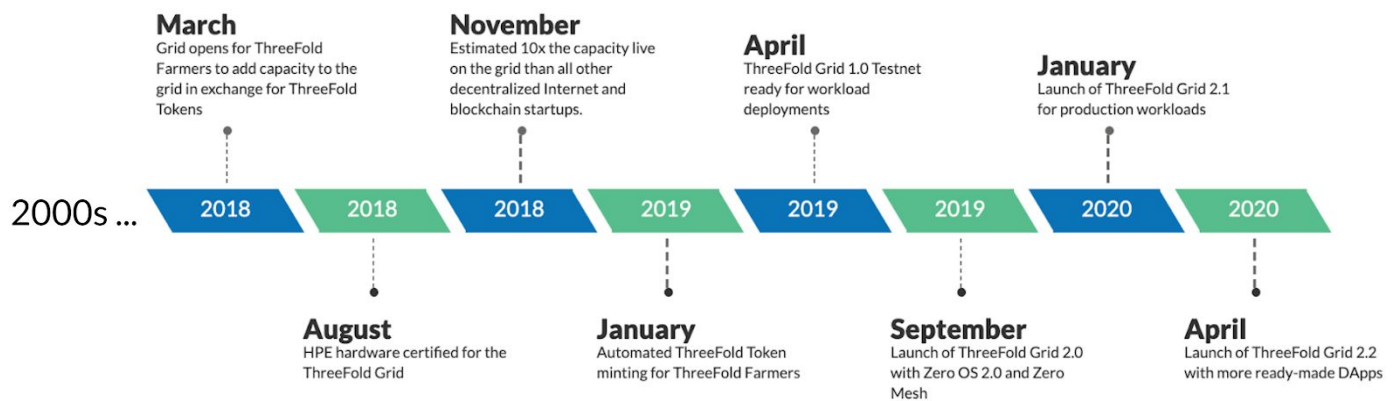
By buying TFT you will provide funding for new projects and make this new vision for the internet a reality.

ThreeFold Tech

The team behind ThreeFold Tech is experienced and knows how to build & grow a successful startup.
Our team has grown & sold 6 company's to date (+500m USD)

2005	2005	2008	2009	2015
DataCenter TECHNOLOGIES	**Dedigate** The Uptime Company	**HOSTBASKET**	**Q-layer**	**AMPLIDATA**
data reduction and capacity optimization software for disk-based backup	managed dedicated hosting services for complex Internet infrastructures	Belgium's largest hosting company	Automation of cloud computing deployment, full data center virtualization	object storage software for public and private cloud data centers
acquired by	**acquired by**	**acquired by**	**acquired by**	**acquired by**
VERITAS	**terremark**	**telenet**	**Sun** microsystems	**HGST**
multi-cloud solutions	formerly a data center subsidiary of	the largest broadband provider in Belgium	**in turn acquired by the**	active archive solutions. HGST is a subsidiary of
sold to	**verizon**		**ORACLE**	**WD Western Digital**
Symantec. THE CARLYLE GROUP	**now**	EBR: TNET		
NASDAQ: SYMC NASDAQ: CG	**EQUINIX**	Market cap: €7 BN	NYSE: ORCL	NASDAQ: WDC
Market cap: Market cap: US$17 BN US$8 BN	NASDAQ: EQUIX		Market cap: US$205 BN	Market cap: US$25 BN
	Market cap: US$34 BN			

20M EUR has been invested in the current project

2000s ...

2018	2018	2018	2019	2019	2019	2020	2020

March — Grid opens for ThreeFold Farmers to add capacity to the grid in exchange for ThreeFold Tokens

November — Estimated 10x the capacity live on the grid than all other decentralized Internet and blockchain startups.

April — ThreeFold Grid 1.0 Testnet ready for workload deployments

January — Launch of ThreeFold Grid 2.1 for production workloads

August — HPE hardware certified for the ThreeFold Grid

January — Automated ThreeFold Token minting for ThreeFold Farmers

September — Launch of ThreeFold Grid 2.0 with Zero OS 2.0 and Zero Mesh

April — Launch of ThreeFold Grid 2.2 with more ready-made DApps

Solidaridad **JMBR software** **OUR CITY APP** **Cloud28+** **Hewlett Packard Enterprise** **KLEOS**

Inspired by nature:

3Nodes deliver the required energy for the 3Bots to function. **3Nodes** are installed everywhere in the world
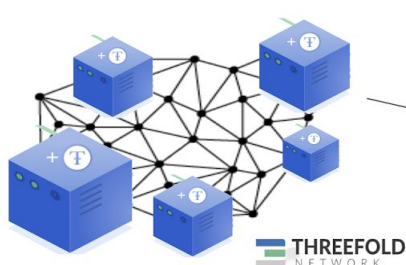
Each 3Node is a computer delivering storage, compute & network capacity.

ThreeFold Farmers install & maintain the 3nodes and earn TFT (digital money) by doing so

Each 3Bot represents a person or legal entity.

The 3Bots own your data and knowledge required to let the digital universe function.

The scale is unlimited and all is ultra secure & private.

THREEFOLD NETWORK

3BOT
= a cell =
your digital self

The 3Nodes deliver the required energy for the 3Bots to function.

billions of 3Bots collaborate to create a new sustainable decentralized digital world.

The Result:

A better, neutral internet
- Funded and owned by all
- Allows everyone (also countries) to be the owner of their own data and digital lives
- Increased equality, equal access to education, information, digital currencies, …

This will fundamentally change the way we function as digital citizens of the world.

For you, as a citizen:
- More convenience, more complete (features), much easier to use
- Less cost
- Faster
- More security, more privacy & transparency
- More powerful (be more effective)

For Nations (countries):
- More security (identity, privacy, protect against hacking, …)
- 10x lower cost for IT infrastructure.
- Up to 1000x energy savings
- More data sovereignty (data in the country)
- Improve local economies
- Equal chances for all citizens
- Be more independent!

More Information:

We are a proud member of [FreeFlow Nation](a global nation, with no borders and equality for all).

Technology

- [Whitepaper: The need for decentralization](url)
- [TFTech Whitepaper_Technology Overview](url)
- [TFTech Whitepaper_Capacity Layer](url)
- [TFTech Whitepaper_Autonmous Layer](url)
- [ThreeFold Foundation (Grid/Token) Website](url)
- [Hackernoon Interview](url)

Funding & Strategic Partnerships

More than 40m EUR has been invested in ThreeFold by its founders, farmers and community.
We are at a strategic inflection point in our journey and ready to extend our reach. If you would like to take part in co-creating a better internet for all, please let us know. We are organizing a convertible note funding round and we also have a public token launch coming soon.

[More info about the token offering see here.](url)