

IOTA

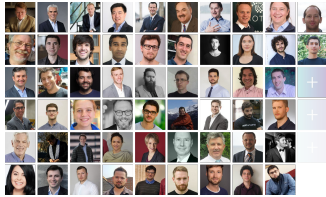
FOUNDATION



03 08 2019

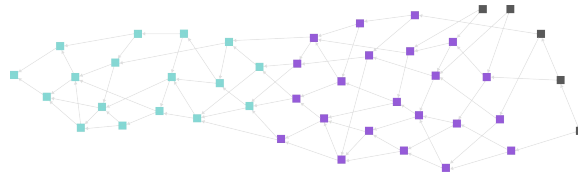
About IOTA

A Global Team



- Non-Profit Foundation registered in Berlin
- 90+ employees in 17 countries
- To research, develop and grow real-world market adoption of the IOTA Tangle and accelerate the ecosystem

Open-source Permissionless DLT For The Internet of (Every)Thing



Highly Scalable



Zero-fee transactions



Low resource requirements



Secure data transfer

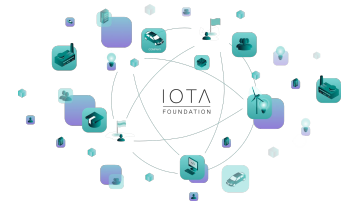


Offline transactions



Quantum resistant

A global, cross-industry co-creation ecosystem

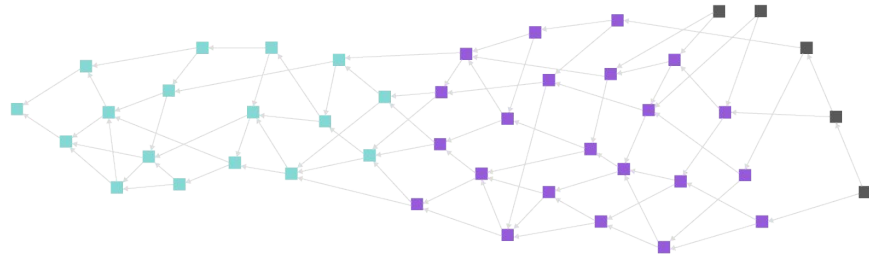


- Open-source Tech & Modules
- Blueprints & Reference use cases
- Matchmaking and talent sourcing
- A Global community developers, innovators & thought leaders

Blockchain Vs Tangle graph structure



Blockchain

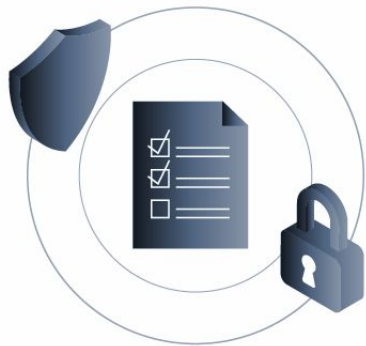


Tangle

(DAG - Directed Acyclic Graph)

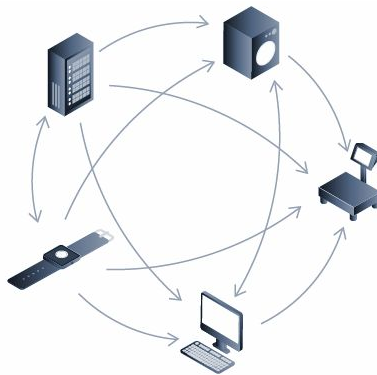
But there are still challenges to be addressed to deal with such a connected and distributed ecosystem and data environment

DIGITAL TRUST



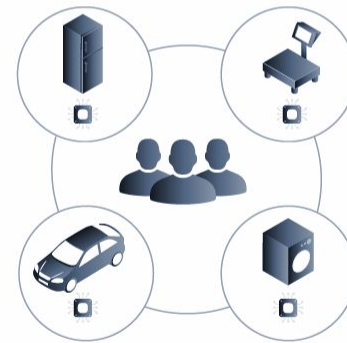
Data Integrity
CyberSecurity
e-Privacy

REALTIME TRANSACTIONS



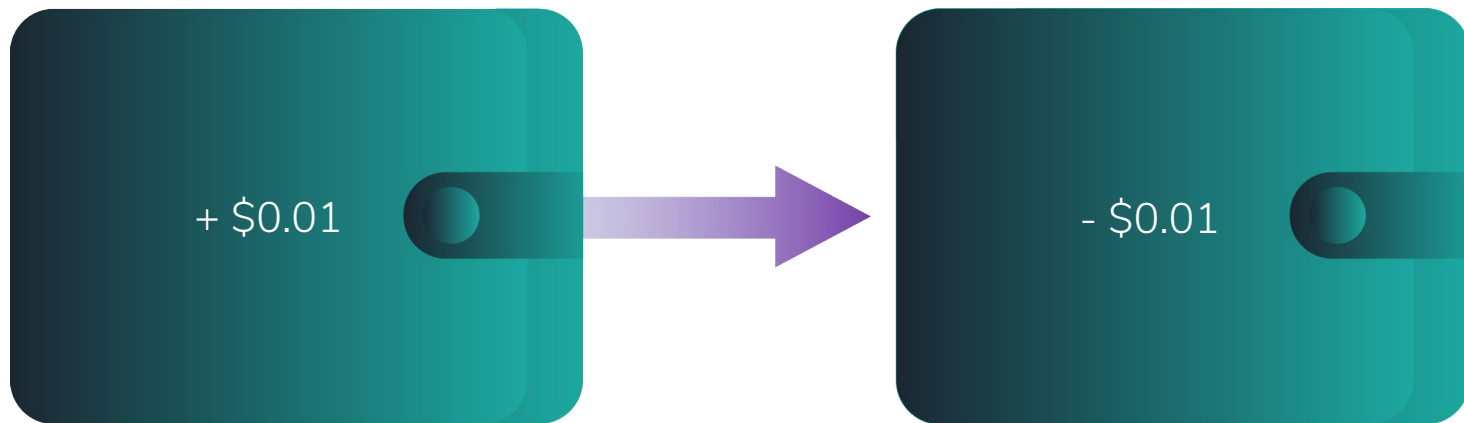
Negligible fees
Real time
“Machine ready”

SMART BUSINESS MODELS



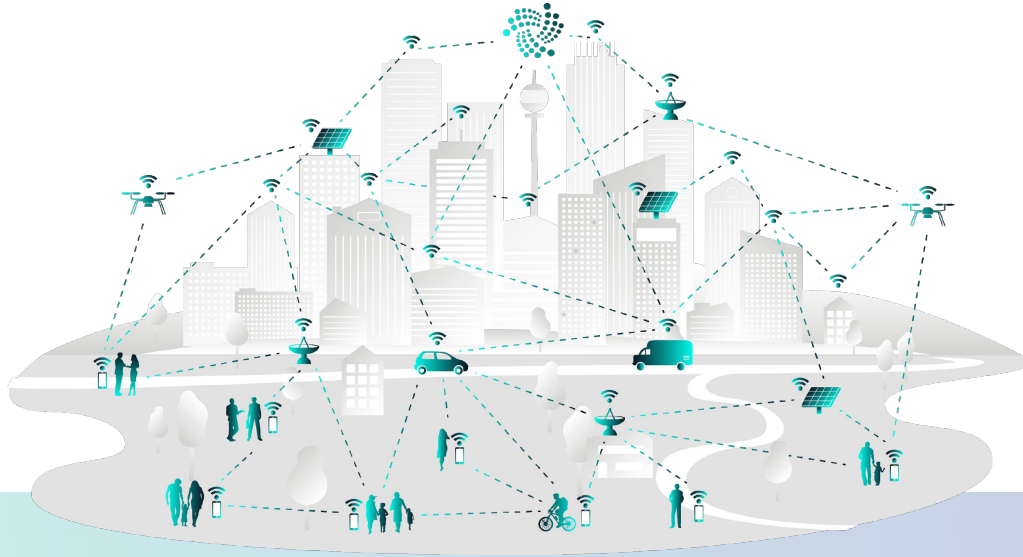
Data Driven
Automated
Cross Silo

IOTA makes **fee-less** micro-transactions possible



No mining = No fees > zero fee micro-transactions are now possible

The Economy of Things, the next wave of value creation



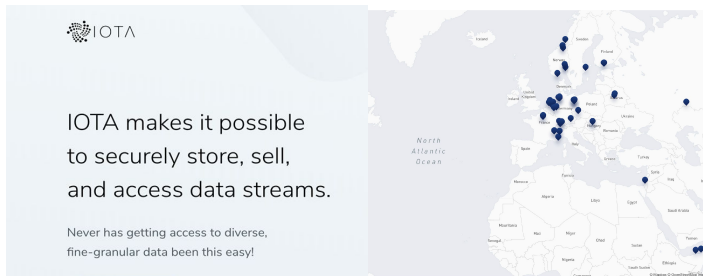
- IOTA, Backbone of the IoT
- New solutions
- New business models
- New ecosystems/value chain

Internet of Thing / Machine 2 Machine
+ **Digital Trust + Micropayments**
+ Machine Learning/AI

IOTA makes it possible to securely store, sell and access data streams

An Open Source Proof of Concept

80+ participants across industries and regions



IOTA makes it possible to securely store, sell, and access data streams.

Never has getting access to diverse, fine-granular data been this easy!

The Data Marketplace PoC

Connected devices and sensors can now get paid through zero fee micropayment for sharing securely their data streams



Smart city: TRONDEHEIM KOMMUNE, os!o, Bilbas, MOVIMENTO, Four, Multiconsult, south east water, APG SGA, wonderwall

Industry IoT Supply chain: BOSCH, NORDIC, AKITA, Crayon, FUJITSU, FESTO, ARTIK, ARUNDO, BlockLab, DNV-GL

Energy: ENGIE, Trianel, epm, alltander, ENEXIS, ogden energi, Gásurthe, Grid Sense, TUKU, allego, EWE

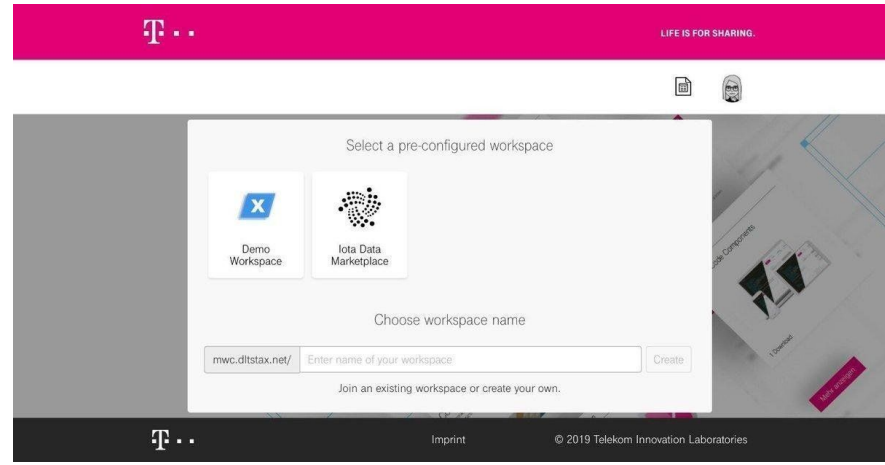
Universities: NTNU, LIO University of Oslo, VZL, RWTH AACHEN, UR, ICE, F S M B, AMRITA, LIU, 42, BI, HANDELSHØYSKOLEN, TUM, USC, Frankfurt School Blockchain Center

Telco: T, orange, T, TELE2

Consulting: EY, KPMG, PÖYRY, Tech Mahindra, accenture

Others: DNB, aparito, PHILIPS, farmforce, farmboek, XDK2MAM

Since Nov 17, IOTA develops a Data Marketplace PoC



<http://data.iota.org>

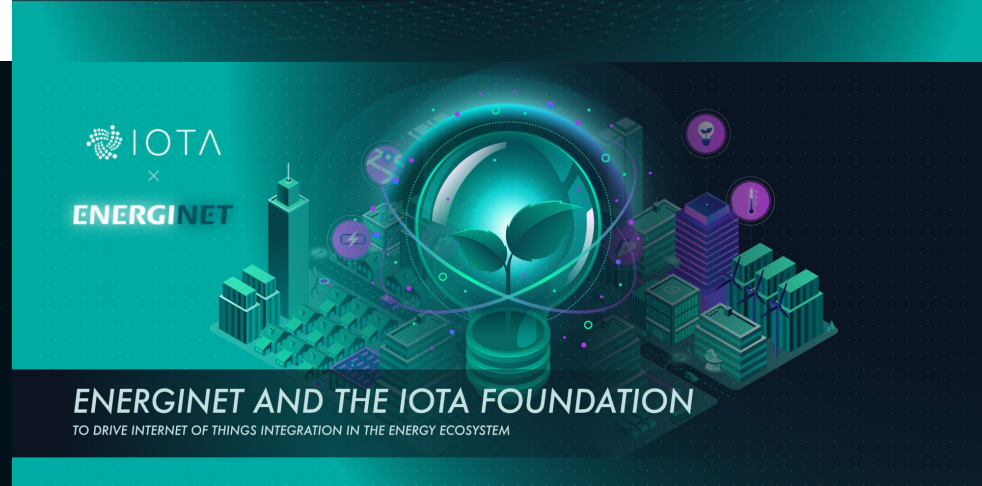
Decentralised smart energy at the heart of smart cities

Peer to peer energy marketplace to allow solar panels, green buildings, smart meters, Electric Vehicles to trade electricity in real time



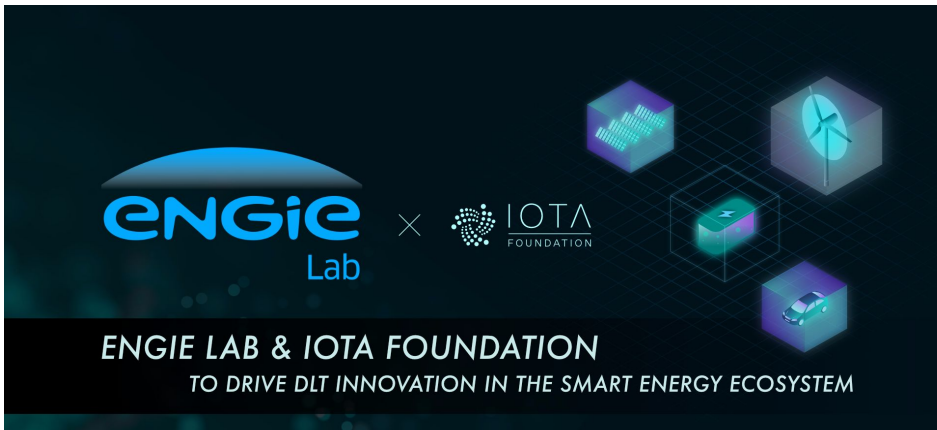
The image shows the Elaadnl logo in the top left corner. The main visualization is a dark blue and black scene with glowing green and yellow energy icons. A central 'Household 1' box displays '+ 1280 i' and '21%' with a lightning bolt icon. Other icons show energy flows: '+200 i', '+100 i', '+600 i', '+180 i', and '+200 i'. The background features a grid of glowing points and lines.

**ELAADNL DEVELOPS
AUTONOMOUS SELF-BALANCING POWER GRID USING IOTA**



The image features the IOTA logo and 'x ENERGINET' text on the left. The main visualization is a 3D isometric cityscape with glowing green and yellow energy icons. A central globe with a green leaf is surrounded by various smart city icons like buildings, a car, and a lightbulb. The background is dark blue with glowing green and yellow energy icons.

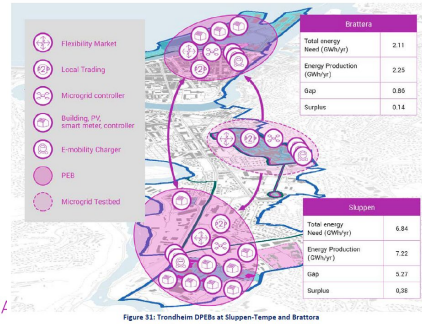
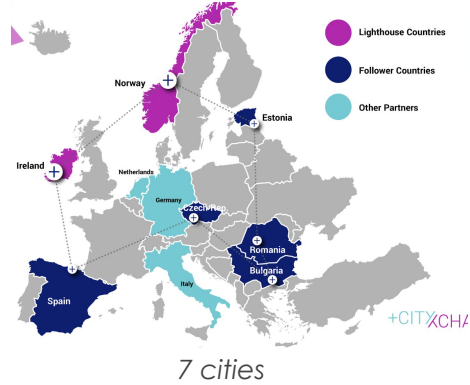
**ENERGINET AND THE IOTA FOUNDATION
TO DRIVE INTERNET OF THINGS INTEGRATION IN THE ENERGY ECOSYSTEM**



The image shows the ENGIE Lab logo and 'x IOTA FOUNDATION' text on the left. The main visualization is a 3D isometric smart energy ecosystem with glowing green and yellow energy icons. A central globe with a green leaf is surrounded by various smart energy icons like solar panels, wind turbines, and electric cars. The background is dark blue with glowing green and yellow energy icons.

**ENGIE LAB & IOTA FOUNDATION
TO DRIVE DLT INNOVATION IN THE SMART ENERGY ECOSYSTEM**

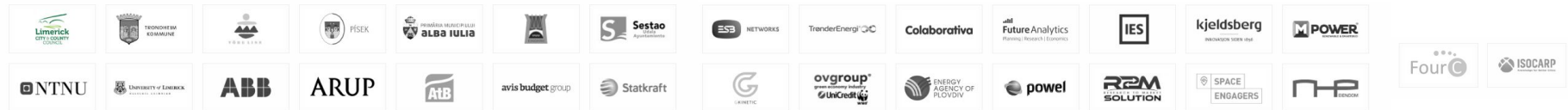
Smart Energy Districts towards Green Smart Cities



Green energy market place

- Positive green energy district
- 11+ testbeds
- Decentralised smart energy
- e-Mobility as a service

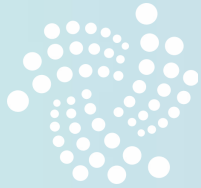
EU Horizon 2020 | 32 partners incl 7 Municipalities, business and academia | 30MEUR
10 + testbed environments across Europe



SMART CITY STARTS WITH A SMART COMMUNITY



Get in touch with the IOTA Foundation



<http://www.iota.org/>

<http://blog.iota.org/>

<http://data.iota.org/>

<http://ecosystem.iota.org/>

<http://docs.iota.org/>



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