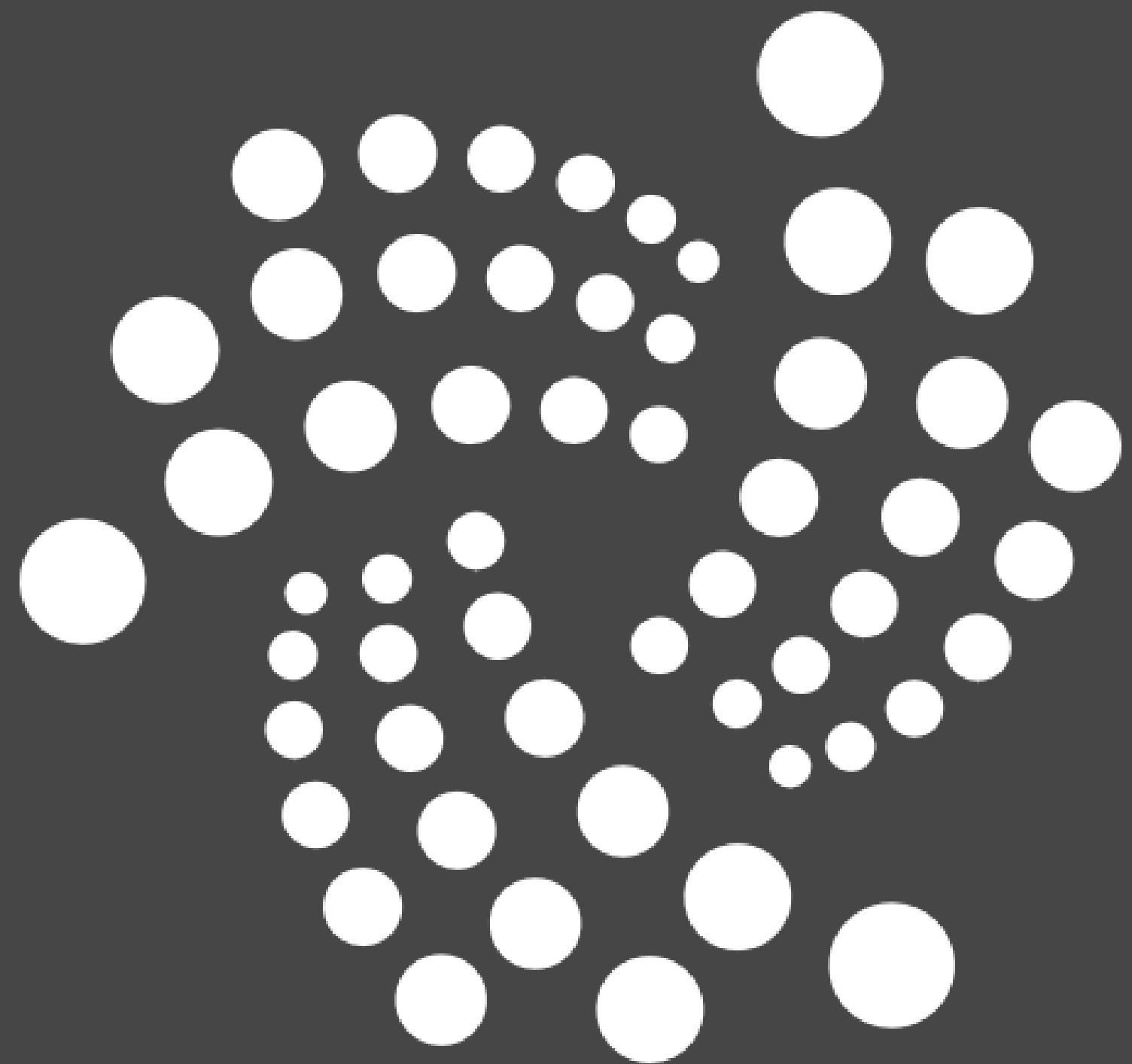




IOTA

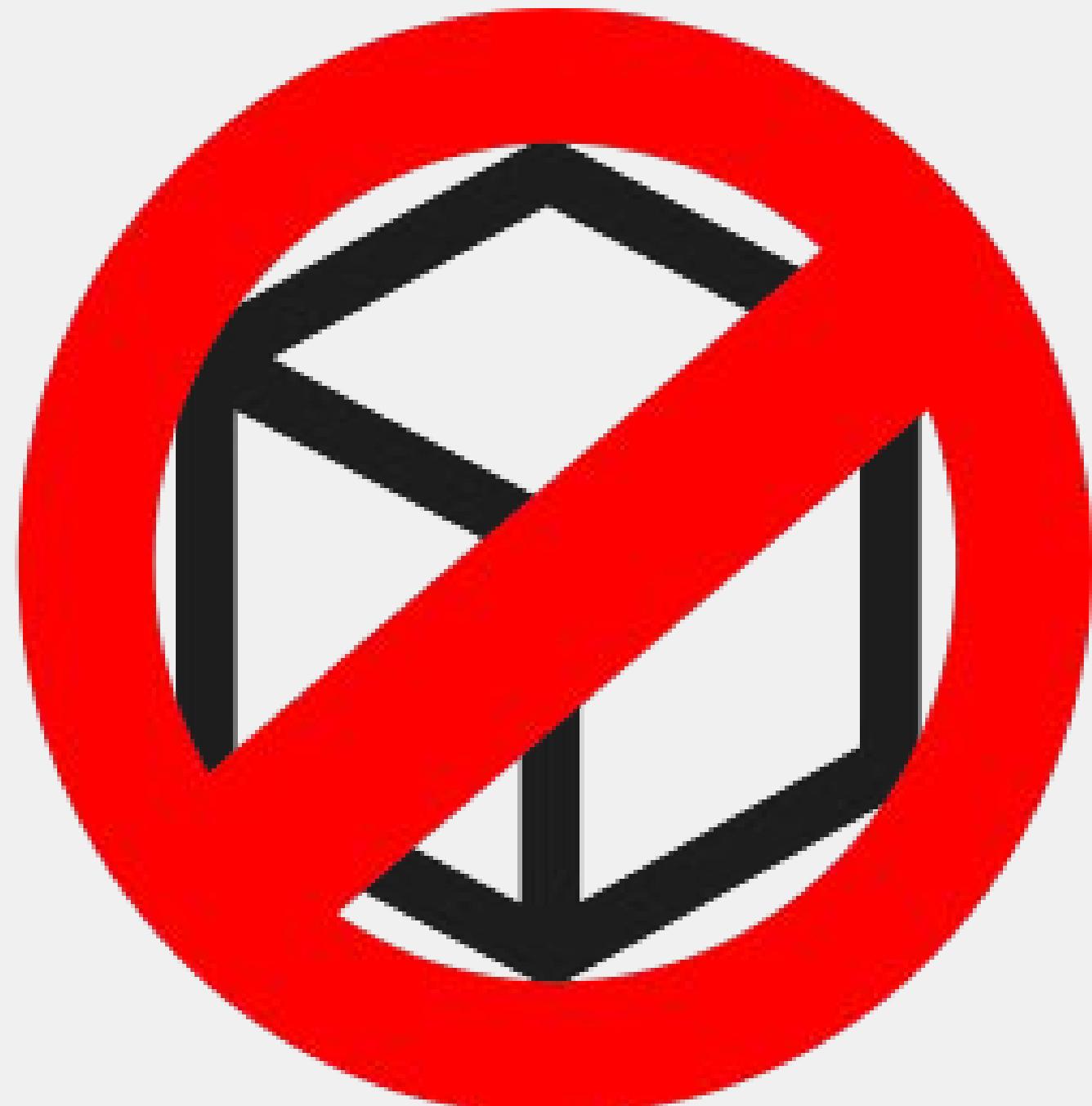


## Start from Scratch

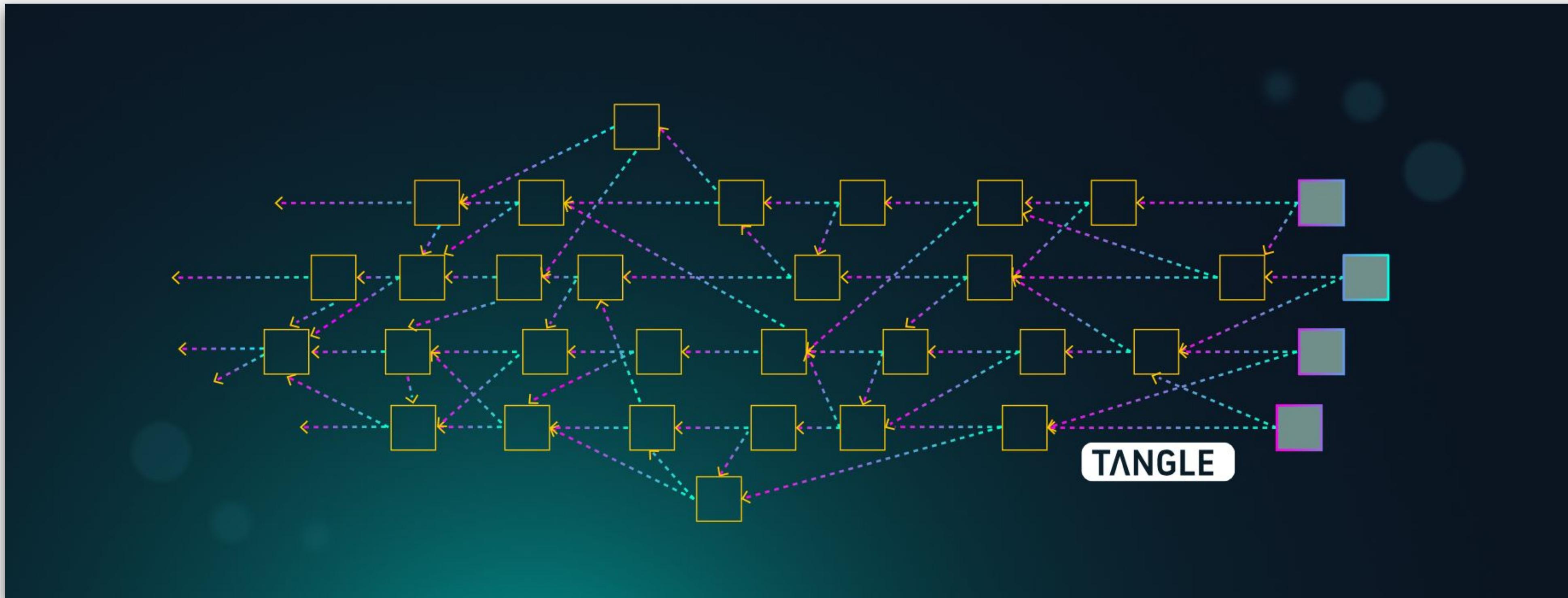
Develop a new Distributed Ledger Architecture specifically designed for the Internet of Things, and novel new **Machine to Machine** interactions.

# Tangle: Beyond Blockchain

A Blockchain without the Blocks and the Chain



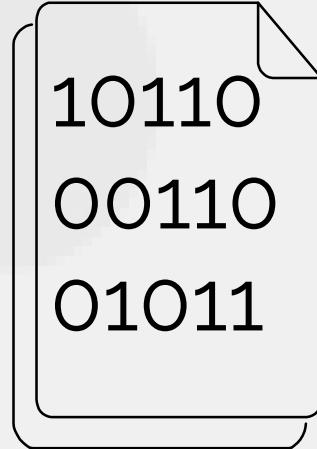
# IOTA Tangle



Read our Whitepaper: [https://iota.org/IOTA\\_Whitepaper.pdf](https://iota.org/IOTA_Whitepaper.pdf)

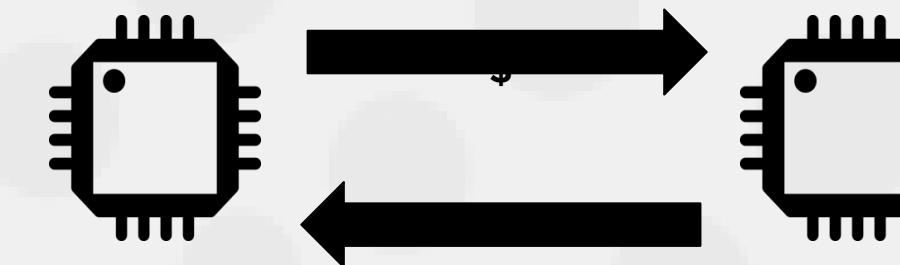
# IOTA's Main Features

## Data Security

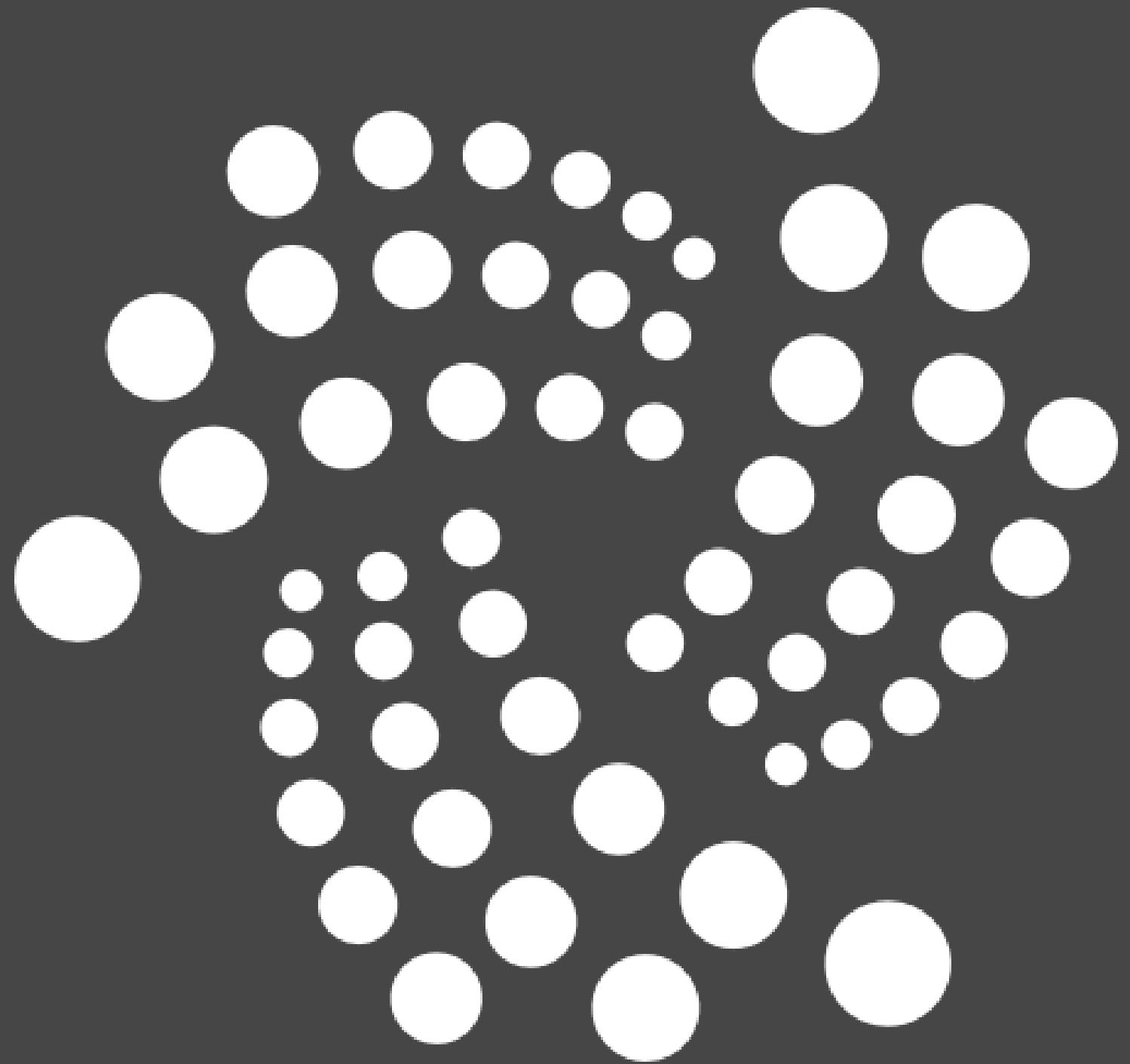


All data cryptographically secured in a **Tangle**. This data can be made visible to certain parties.

## M2M payments



**Machine to Machine micropayments.** This way machines can pay each other for certain services and resources.

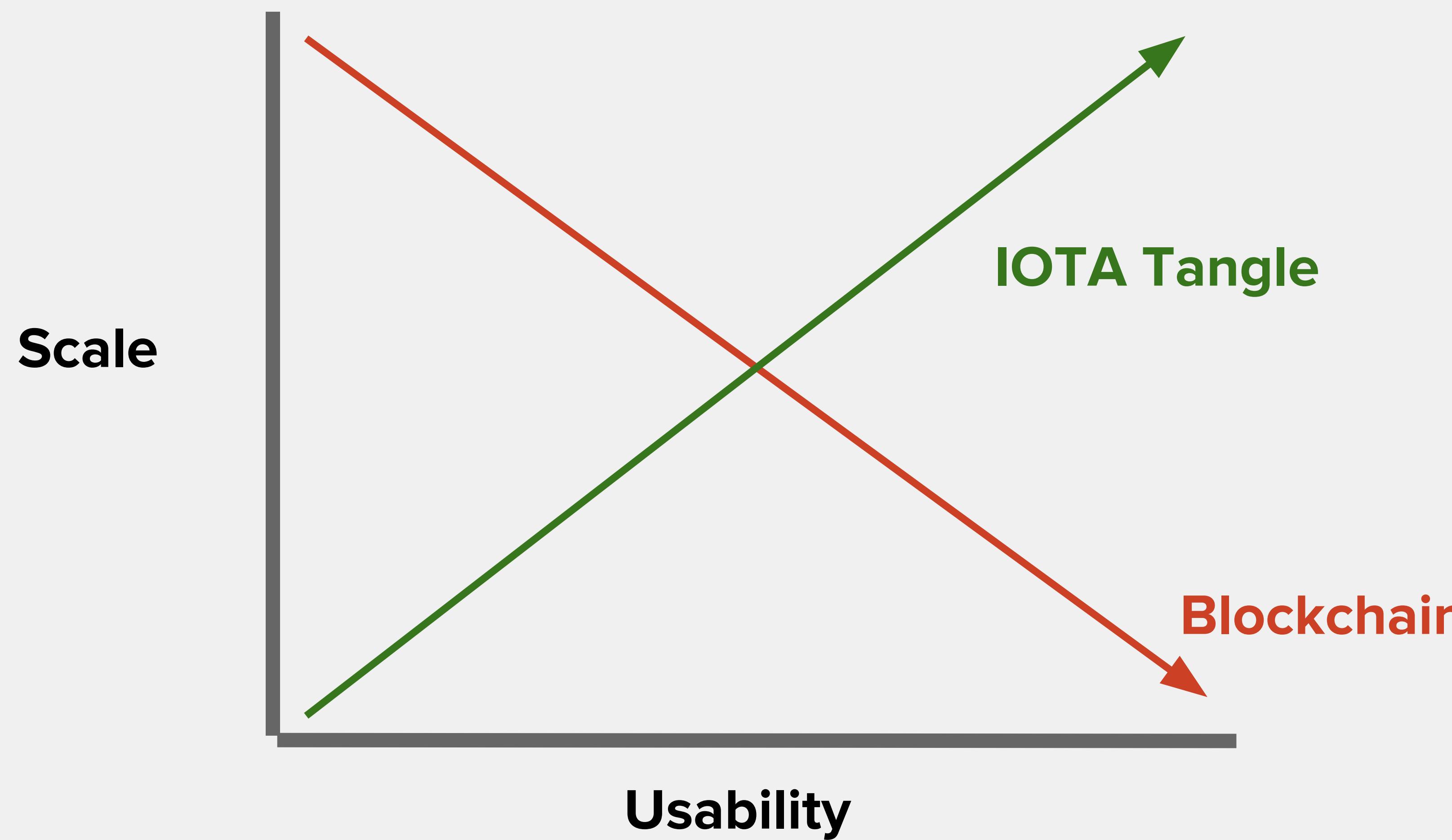


Why is IOTA  
Awesome?

# No Transaction Fees



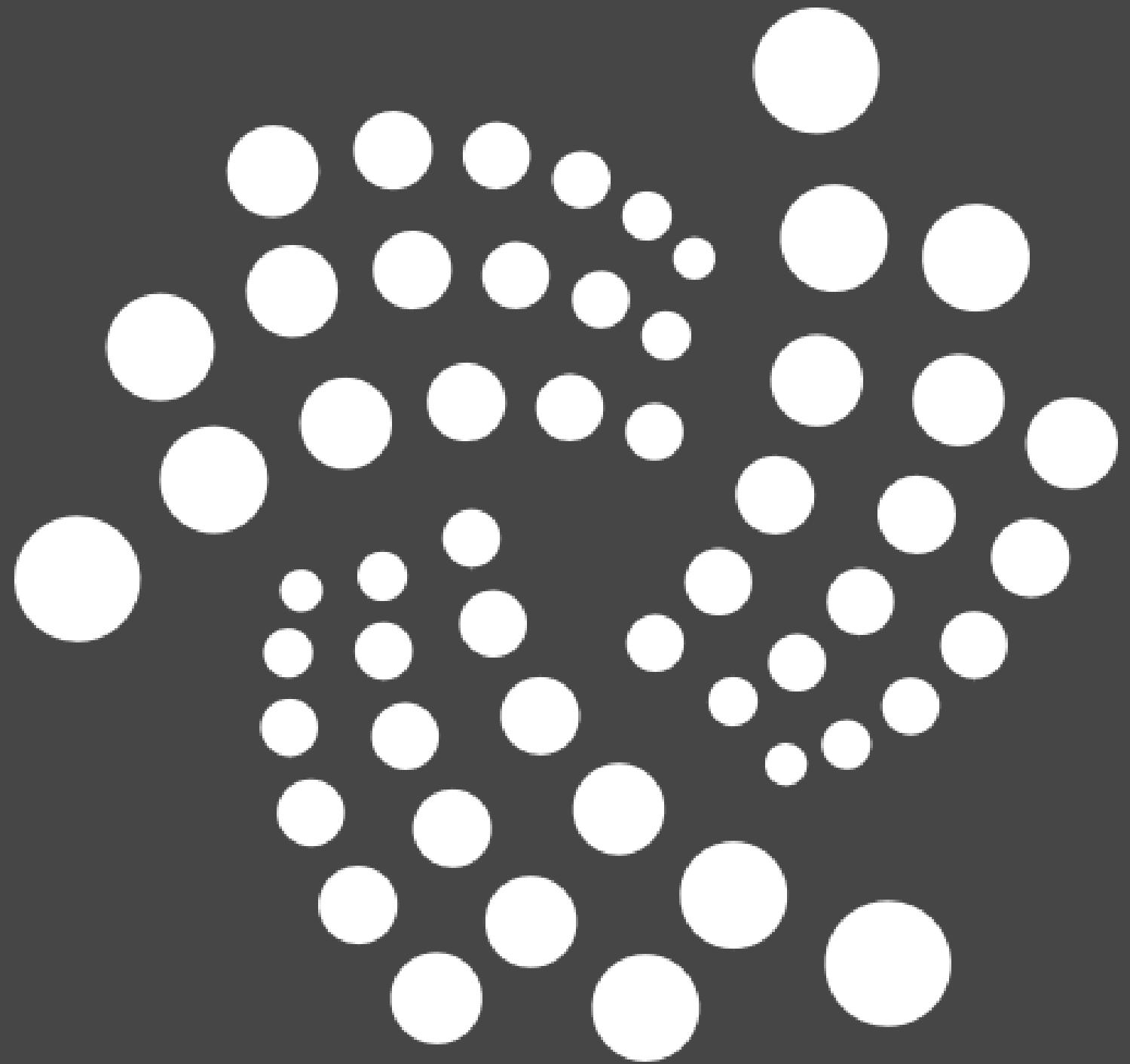
# It Scales!





More than **\$4 Billion**  
transacted

// With no fees



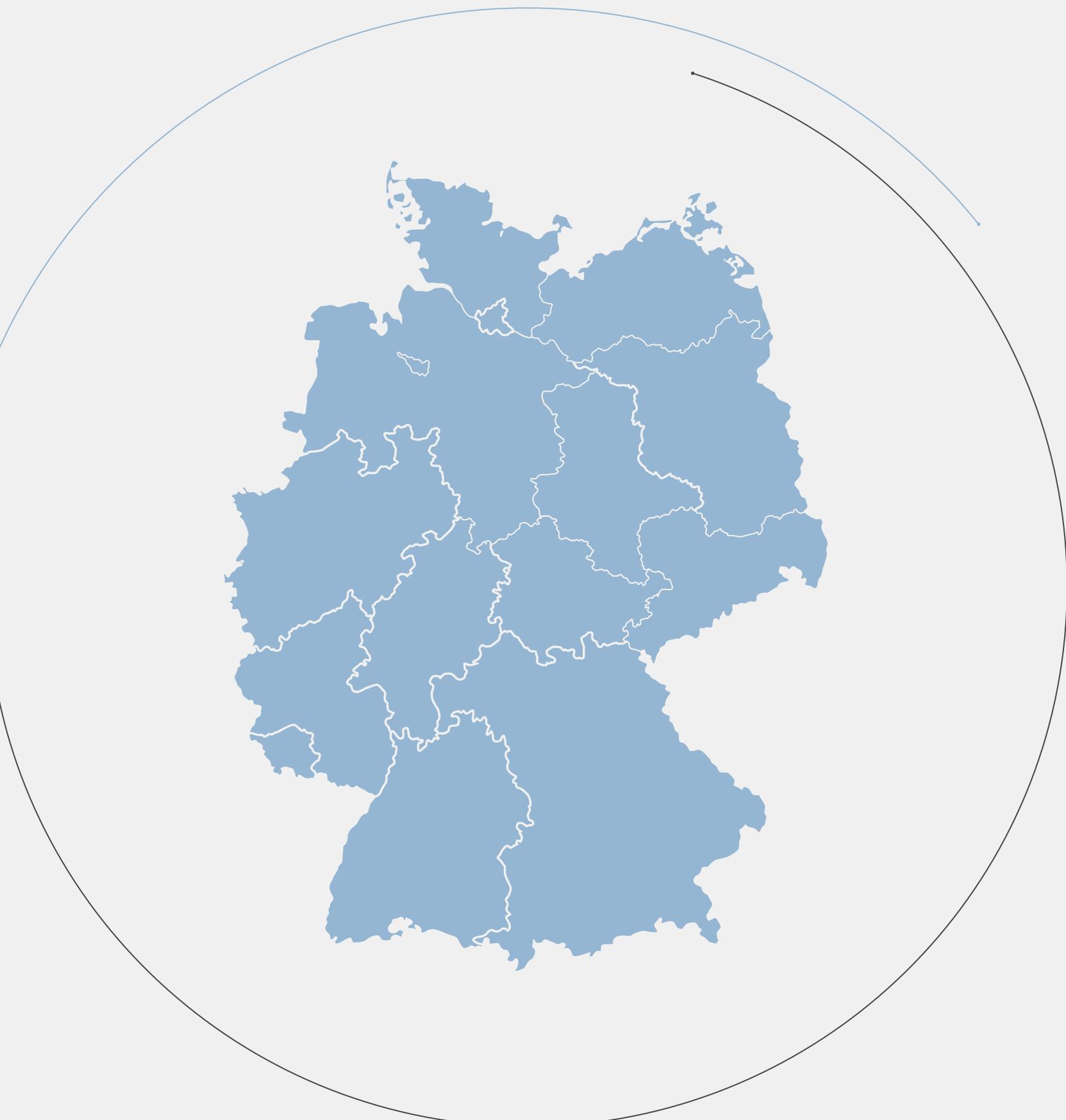
Who are  
we?

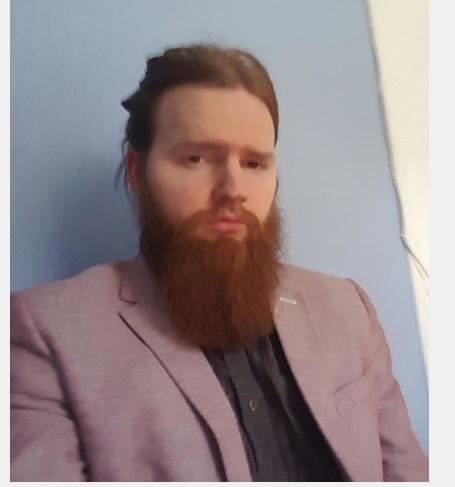


# IOTA Foundation

// gemeinnützige Stiftung

IOTA is run by a non-profit Foundation  
registered and headquartered in Berlin  
with the purpose of **developing** and  
**standardizing** new DLT technologies.



**David Sønstebø****Dominik Schiener****Sergey Ivancheglo****Ph.D Serguei Popov****Alon Elmaliyah****Paul Handy**

22 Developers, 12 Researchers,  
hiring a lot

Contracted Team of 5  
leading Cryptographers

Globally distributed, with offices in  
Berlin and Oslo

Offices soon in Chicago (Bosch  
Connectory) and Shanghai



**Oliver Bussmann**



**Richard Soley**



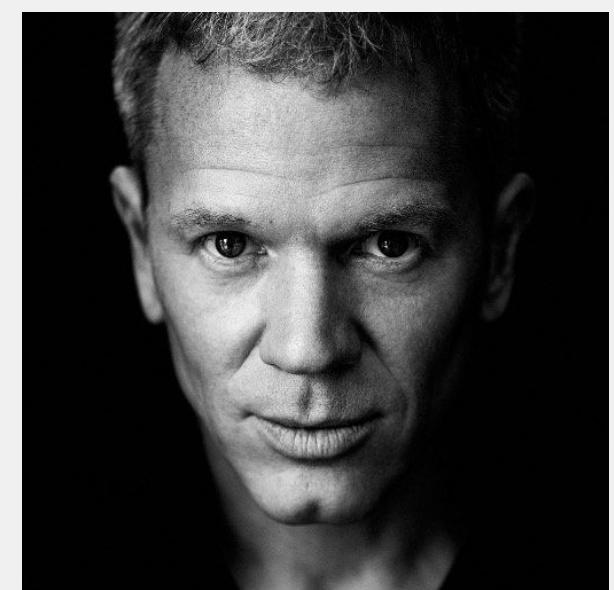
**Cyril Grunspan**



**Julie Maupin**



**John Edge**



**Nick Beglinger**



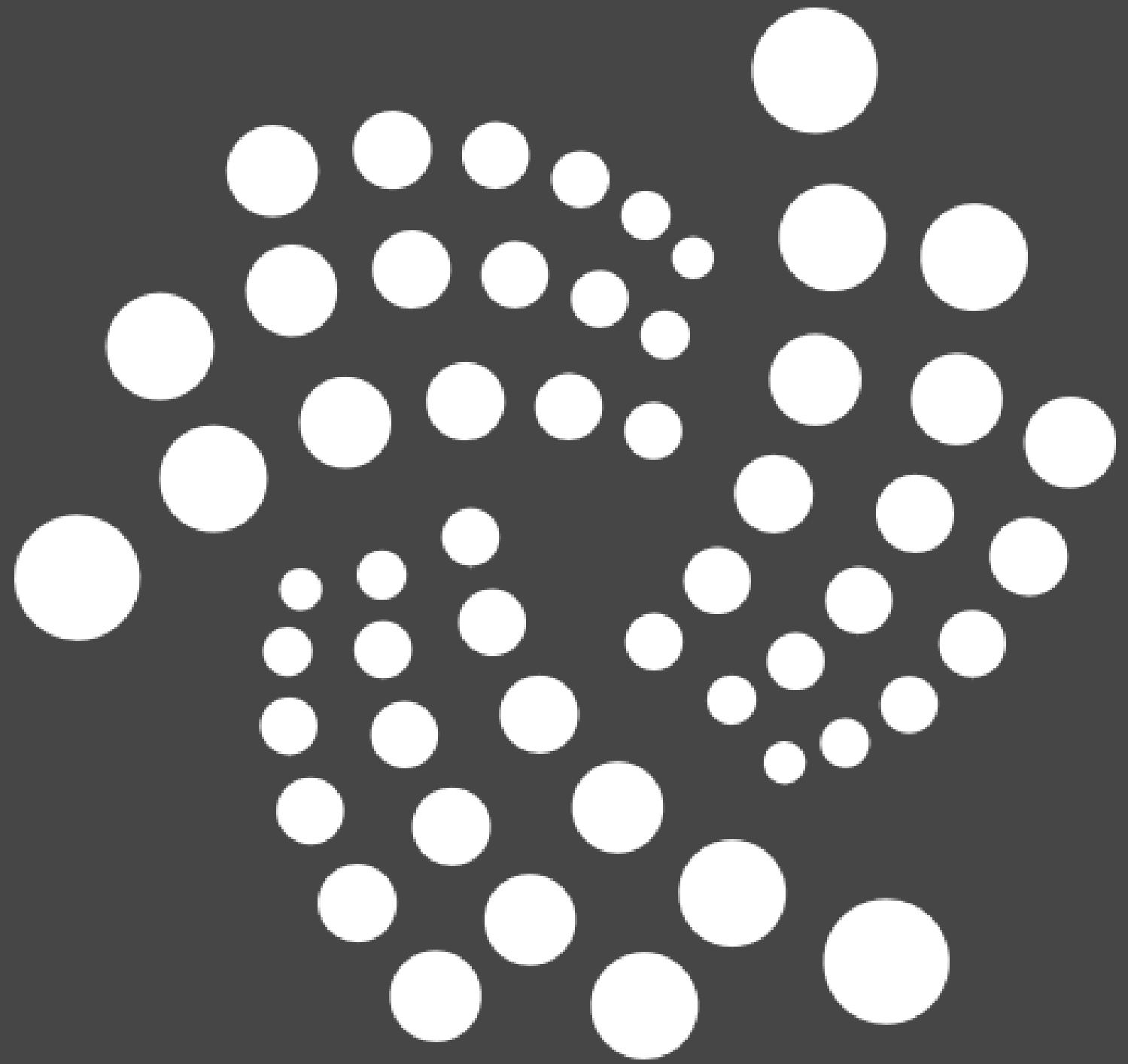
15 Advisors who are leading experts in their own field



Diverse backgrounds in medical, IIoT, legal, banking, clean tech, etc.



Intention of on-boarding more leading executives from corporate & government partners



# Our Vision



# Machine Economy



# Towards Smart Decentralization



## Dumb Decentralization

- “Dumb” devices
- No connectivity / sharing of data
- Human mediators

## Smart Centralization

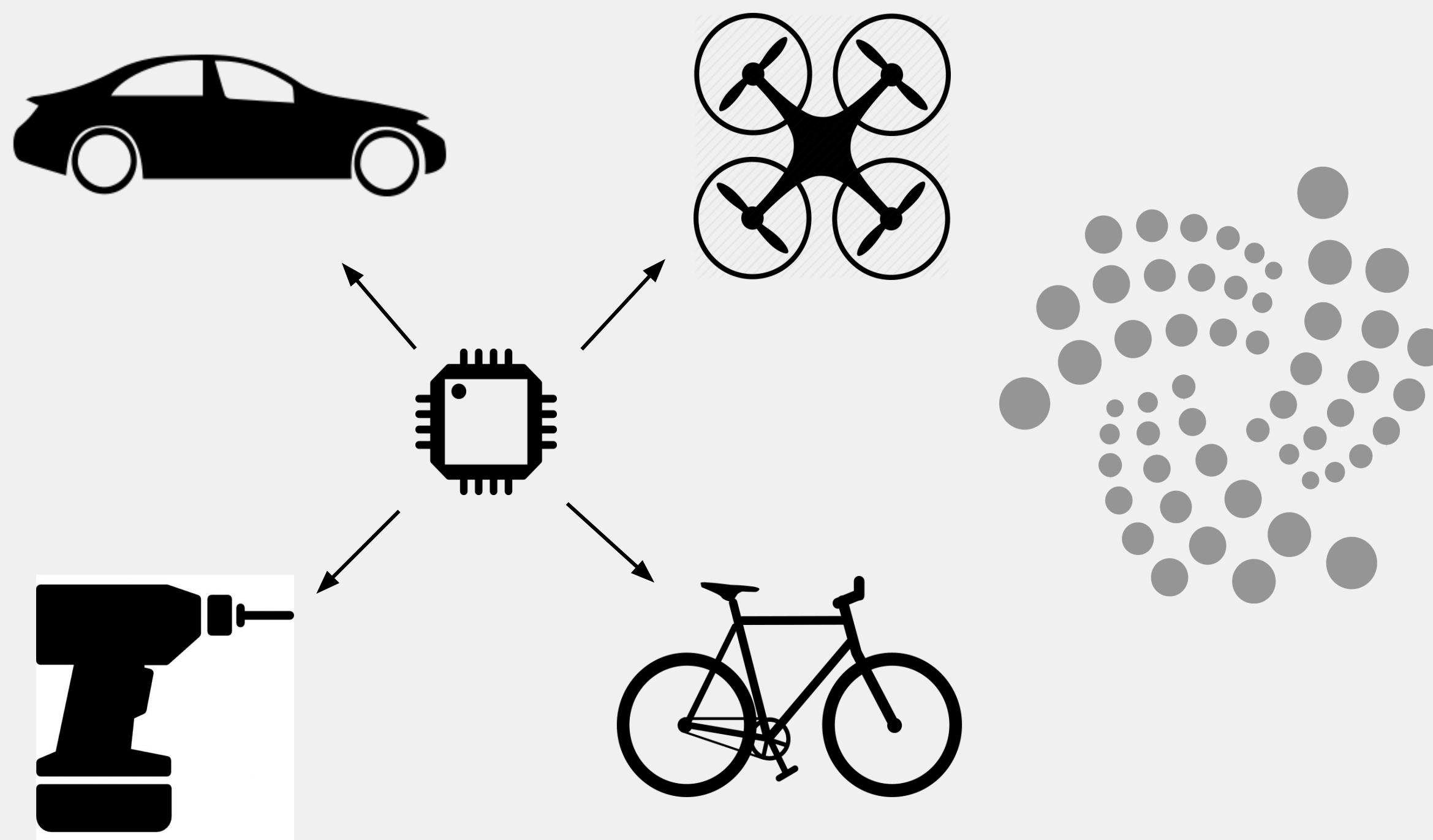
- Smart devices, dumb network
- Cloud as decision maker

## Smart Decentralization

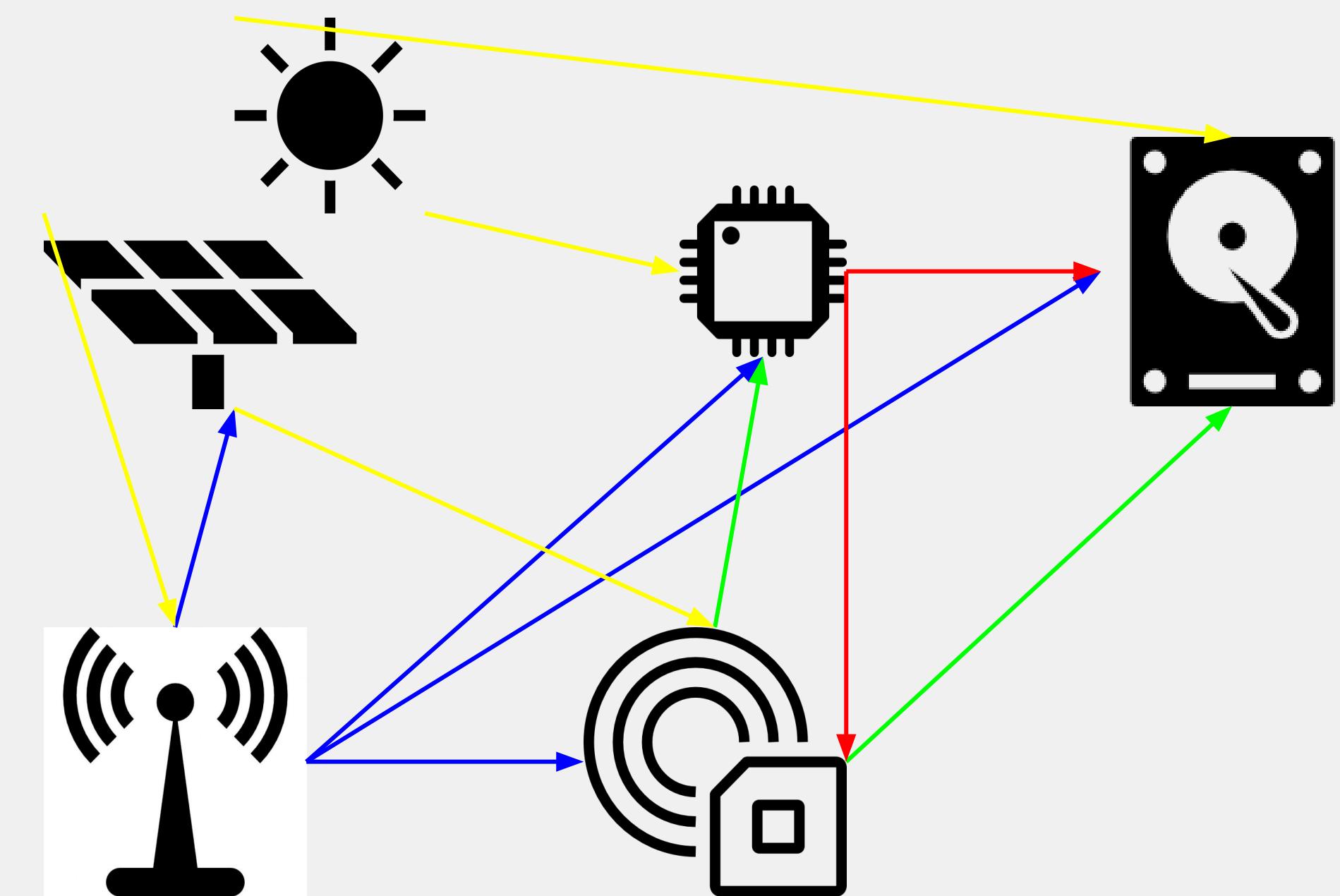
- Data Sharing
- Local Real-time Decision Making
- Smart adaptive and intelligent network

# The next Sharing Economy

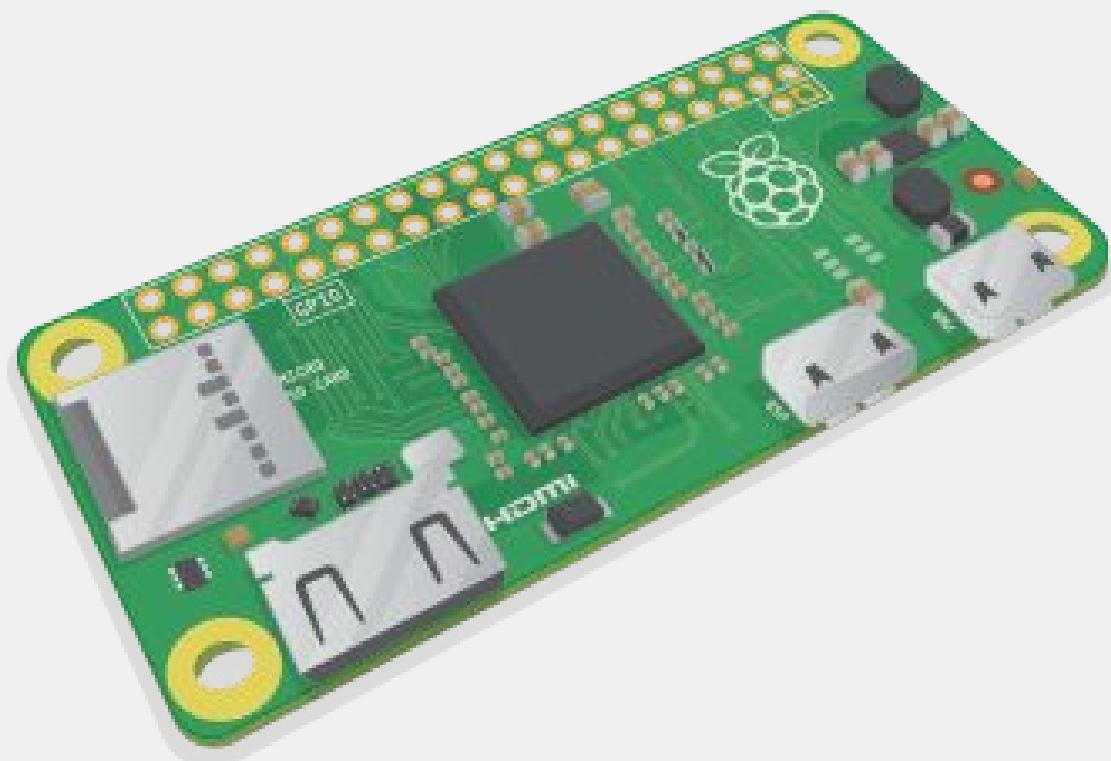
Anything with a chip in it can be leased

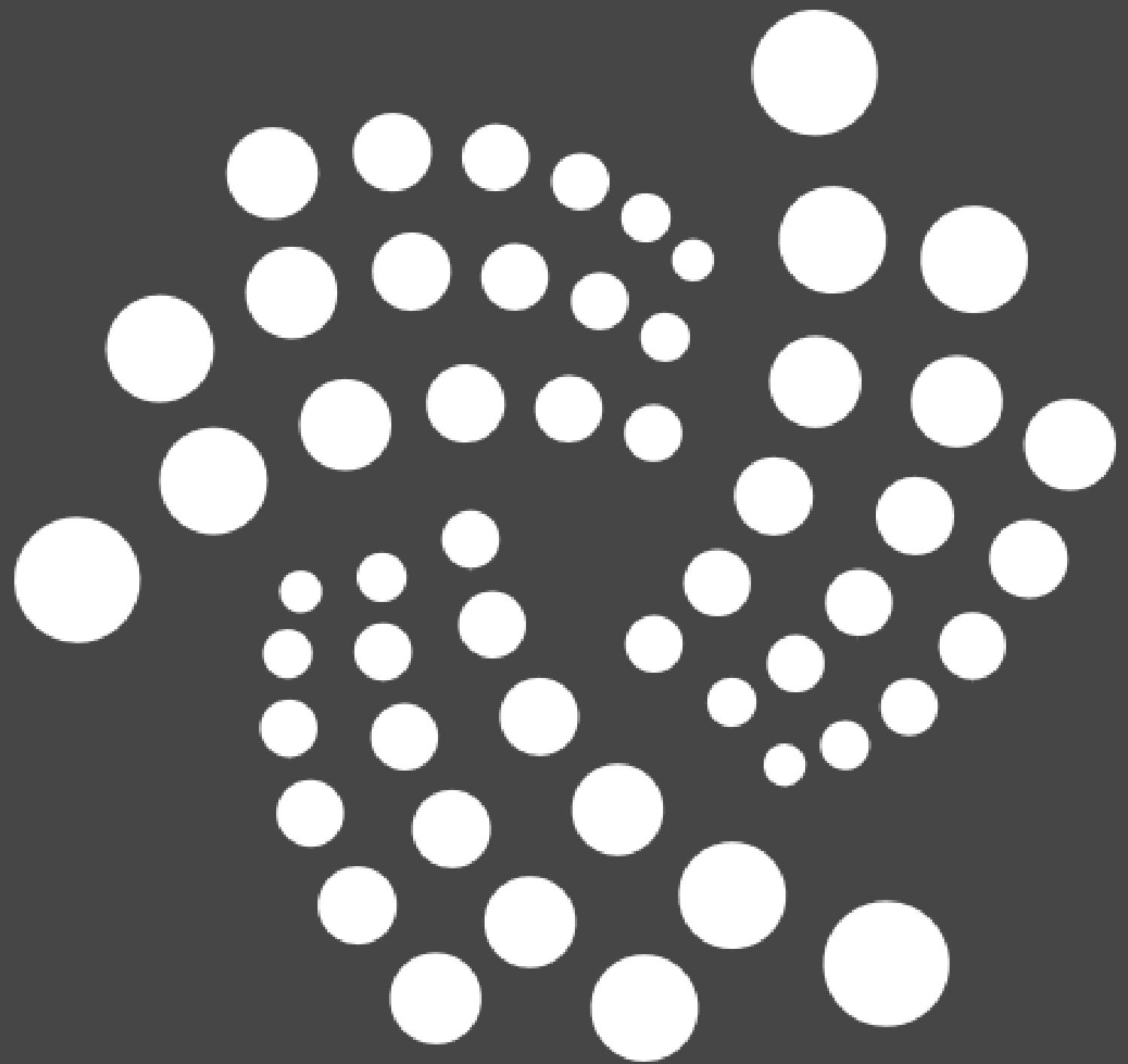


Devices trade resources among each other



# No longer bound to machines hardware!



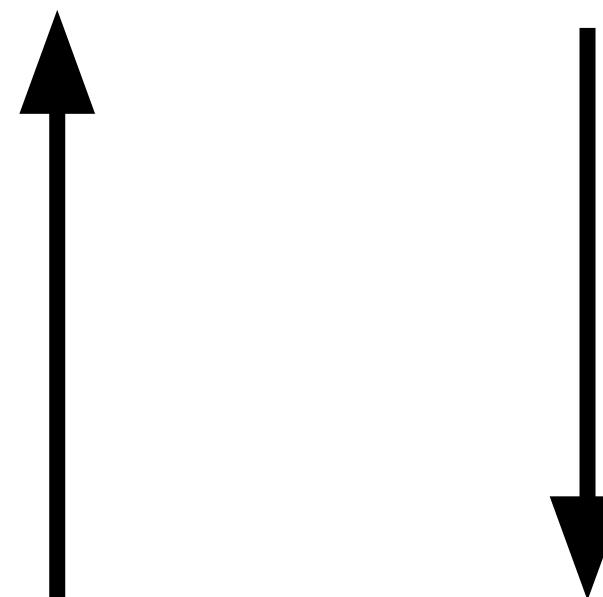
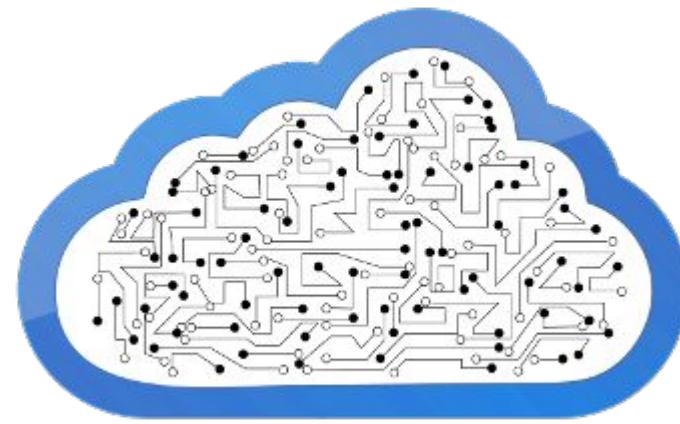


## Some Use Cases





# BOSCH



- IOTA MAM runs on Bosch XDK (32-bit cortex)
- Secure sensor data transmission to the Cloud via IOTA
- Micropayments to the Cloud

# CarPass: Secure Car Data

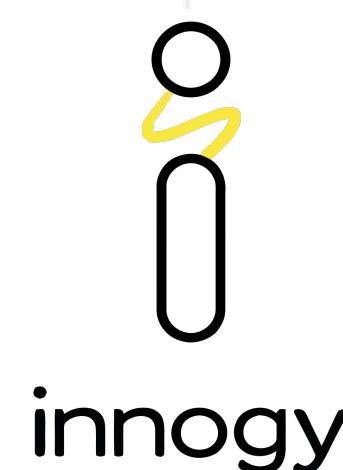
Welcome Admin  
Last Login : 22-Jun-2016 20:26 IST

innogy CAR PASS

See All Users Invite New User See All Cars Register Car Transfer Car

CAR MODEL MILEAGE COMPANY

CAR MODEL	MILEAGE	COMPANY
Volkswagen Model: Polo Capacity: 1680mm Consumption: 7.4mpg@400rpm	Emission: CO2 199g/km HP: 88.7bhp@4200rpm	14.47 Kmpl Petrol Volkswagen
Volkswagen Model: Jetta Capacity: 1680mm Consumption: 7.4mpg@400rpm	Emission: CO2 199g/km HP: 88.7bhp@4200rpm	15.42 Kmpl Petrol Volkswagen
Volkswagen Model: Touareg Capacity: 1680mm Consumption: 7.4mpg@400rpm	Emission: CO2 199g/km HP: 88.7bhp@4200rpm	16.41 Kmpl Petrol Volkswagen



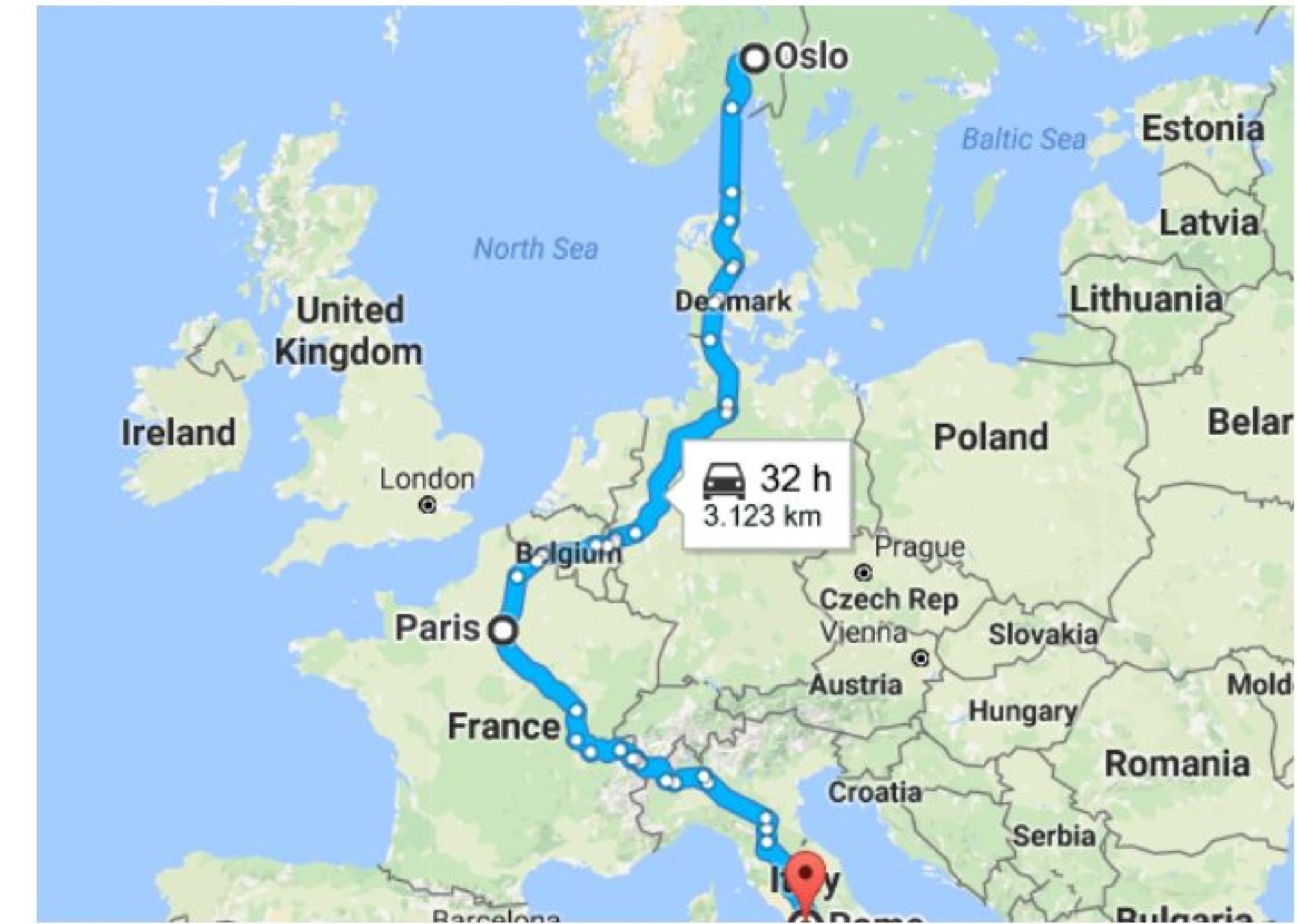
BIGCHAIN<sup>DB</sup>

# Pan-EUROPEAN Charging Network – Oslo2Rome

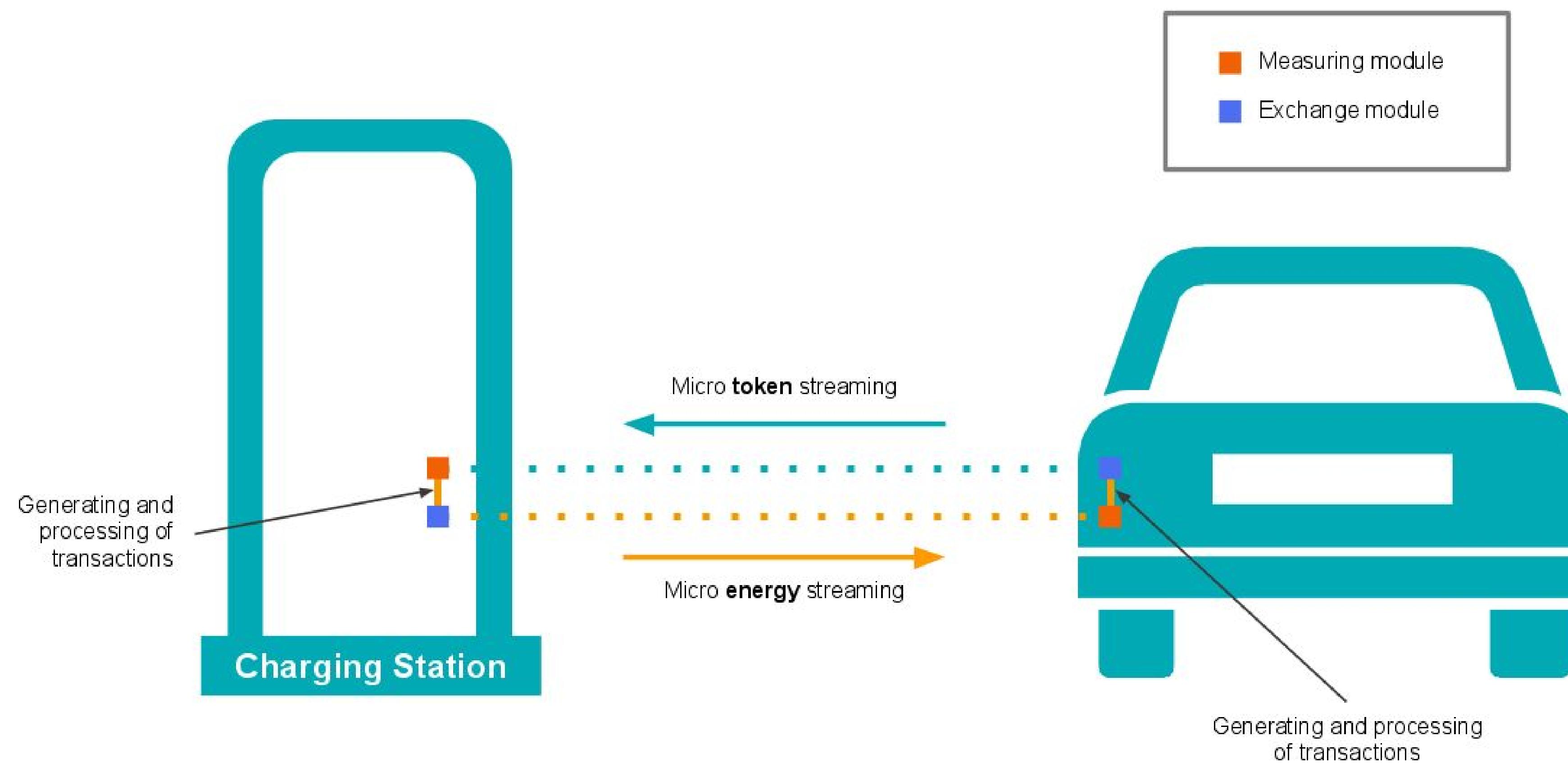
SHARE  
CHARGE &



 motion  
werk



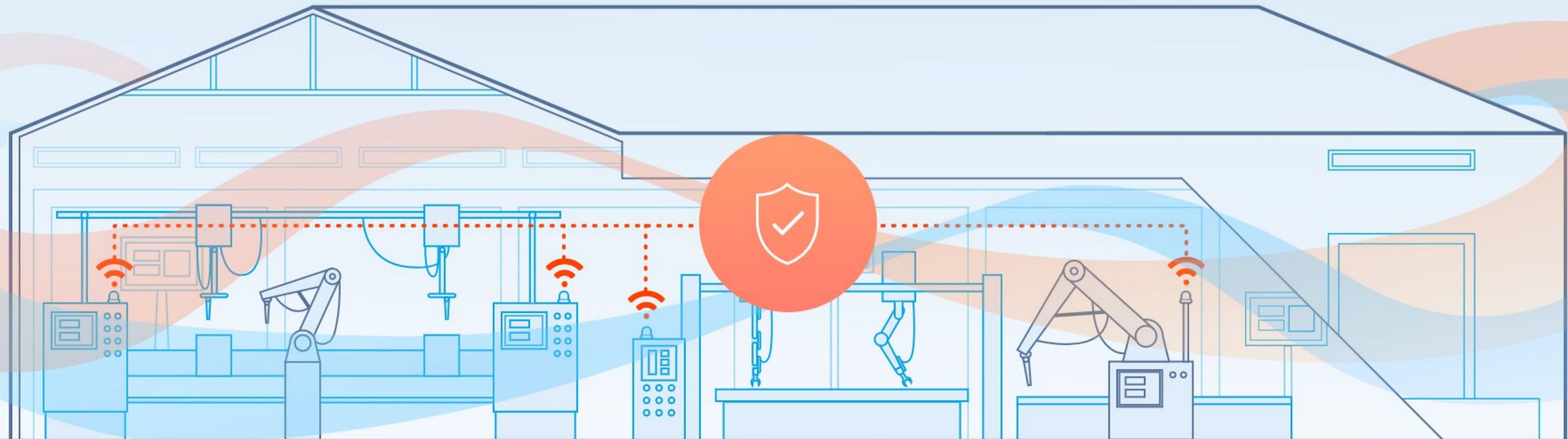
# Real Time Token Streaming between exchange modules\*



- **unlimited scaling ability**
- **instantaneous validation of nano-payments at high-volume**
- **No need of smart contracts**
- **exponential decay of transaction costs**

**Prospectively we can use IOTA flash channels**

# Industry 4.0



# OTA Updates



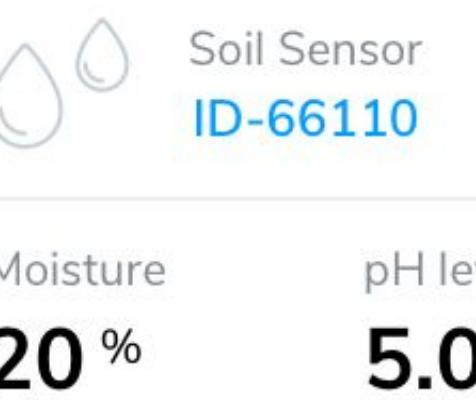
- Authenticity and Security of OTA Updates
- Secure audit trail of the software history

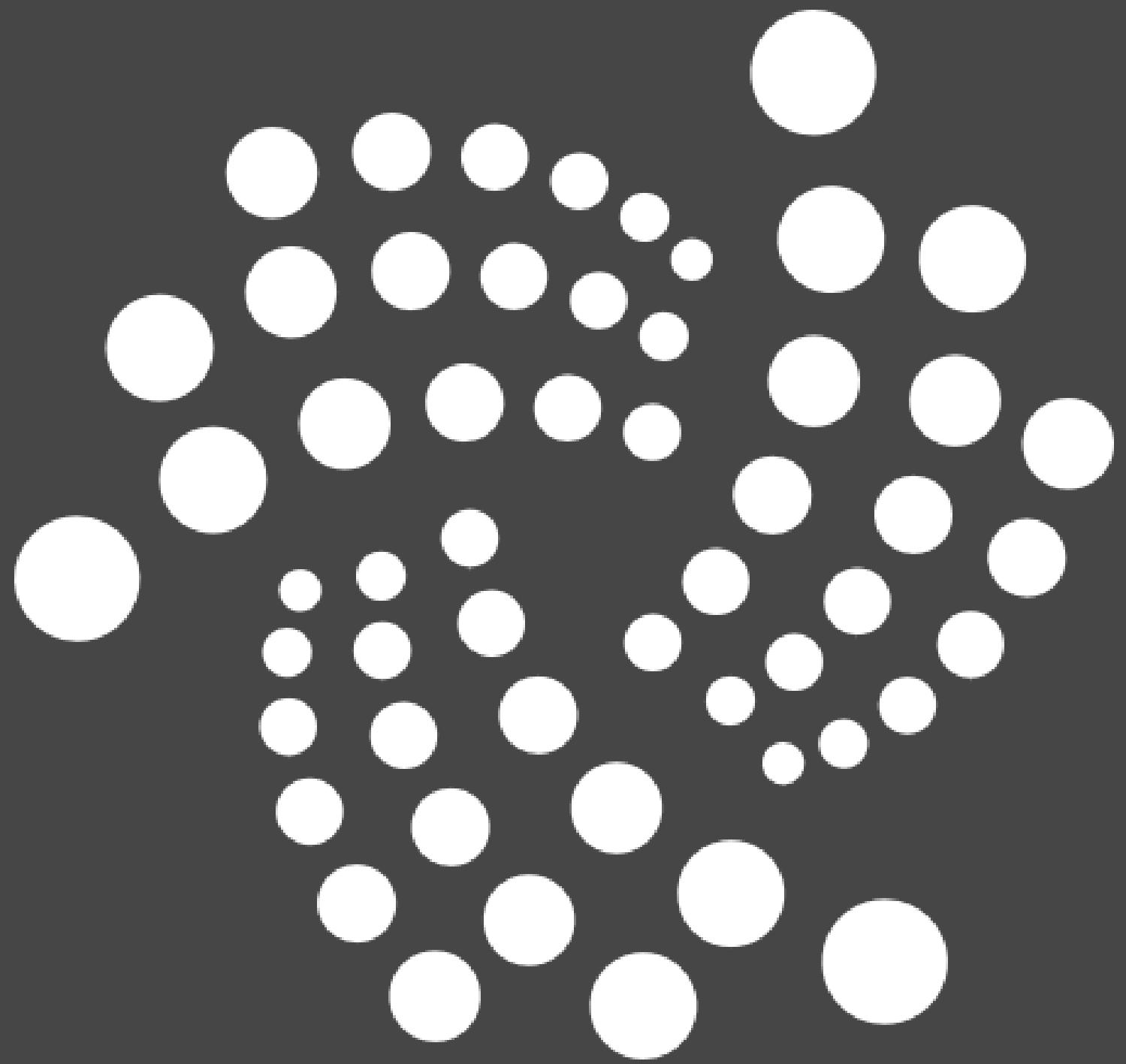


IOTA makes it possible  
to securely store, sell,  
and access data streams.

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

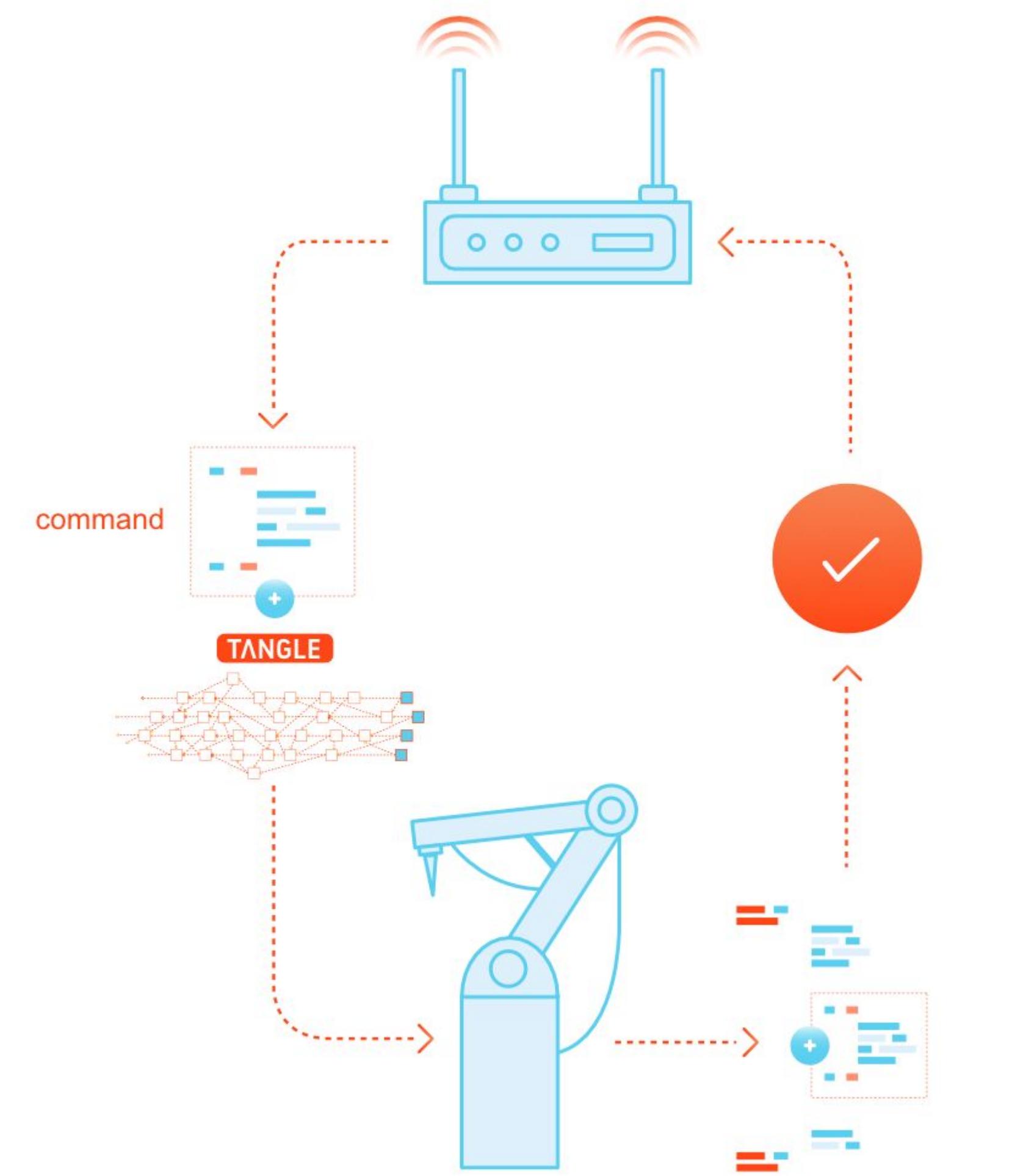
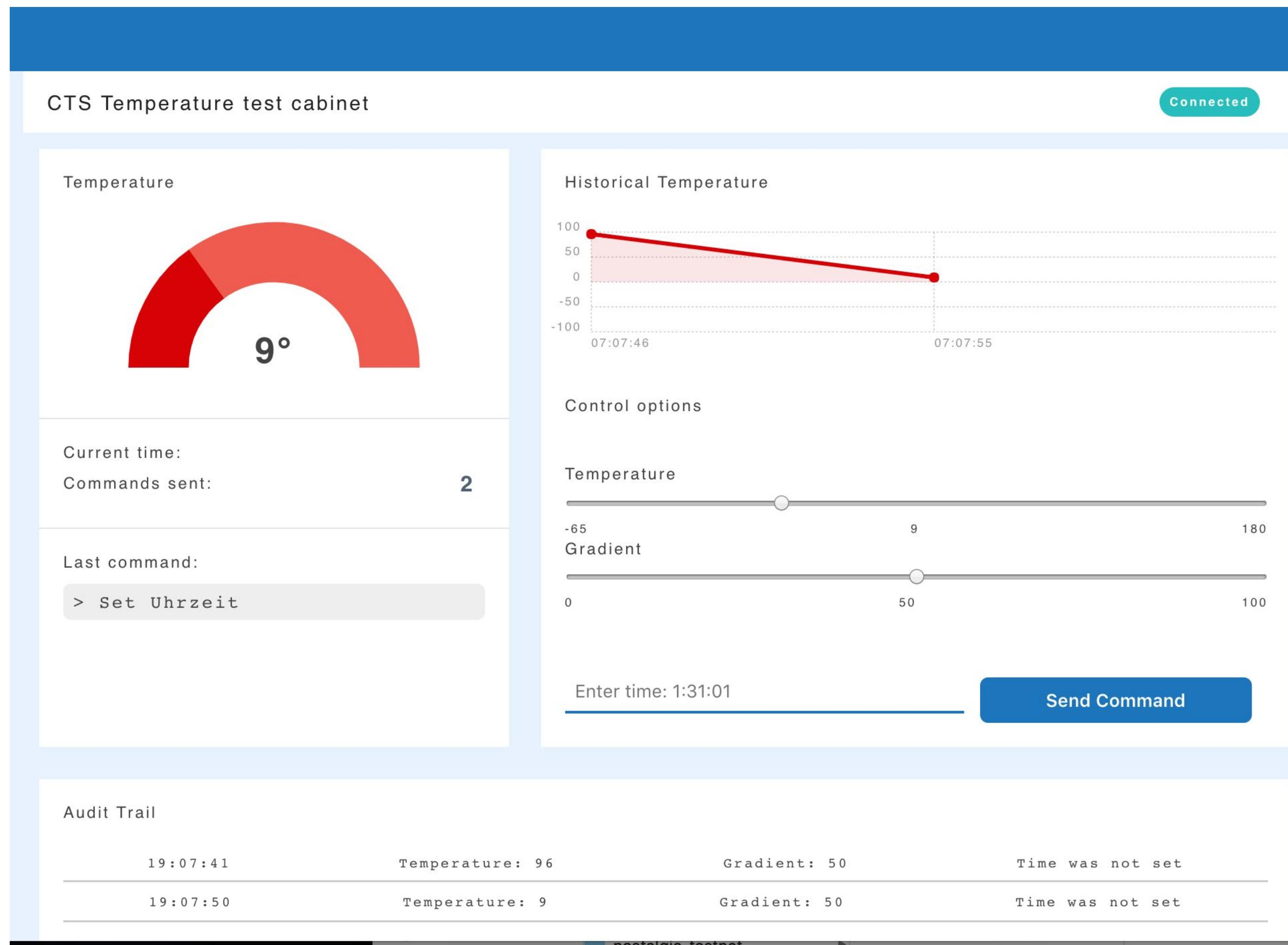
[TRY IT YOURSELF](#)





Time for a  
Demo!





<https://audit-trail.tangle.works>



# Questions?

dom@iota.org

@iotatoken

@domschneider