

IOTA

Ledger of Things

*“Why the Blockchain
Is the Biggest Thing
Since the Internet”*

-Nasdaq

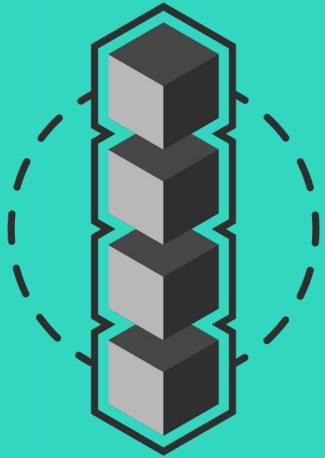
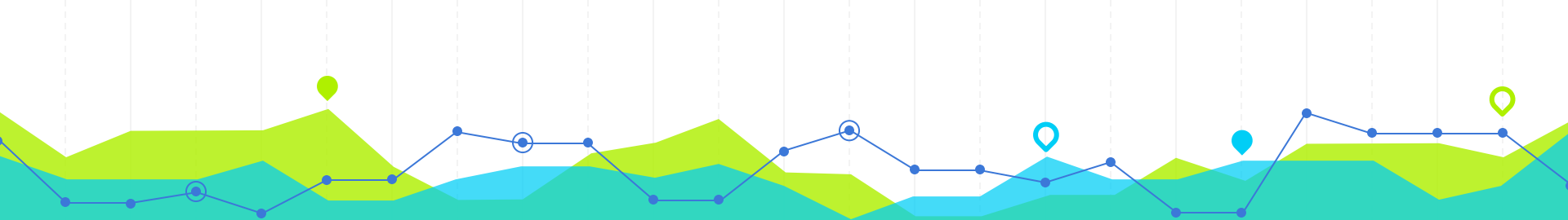
Blockchain

The background features a dark world map with a network of white and grey nodes and lines overlaid on it. The nodes vary in size and are connected by thin lines, creating a global network structure. Some nodes are highlighted with larger circles or squares. The overall aesthetic is technical and digital.

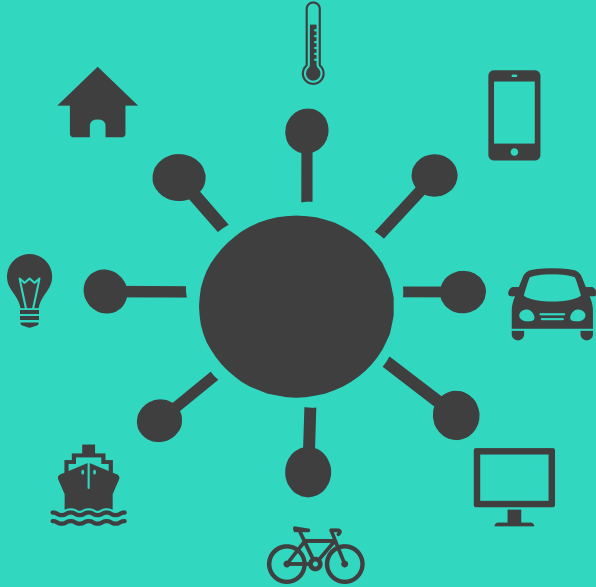
A central black cloud contains various icons representing data, connectivity, and devices. From this cloud, a network of thin black lines radiates outwards to connect to numerous circular icons, each representing a different type of Internet of Things (IoT) device. These icons include a blender, headphones, a video camera, a printer, a microphone, a washing machine, a television, a car, a refrigerator, a lamp, a game controller, a camera, a clock, a lightbulb, a drill, a computer monitor, a scale, a watch, a desk lamp, a telephone, a laptop, a tablet, a fan, a camera, a speaker, a computer tower, a clock, a scale, a watch, a desk lamp, a telephone, a laptop, and a tablet. The background is a dark gray color.

Internet of Things

*“50 billion connected
devices in 2020”*
-Cisco



+

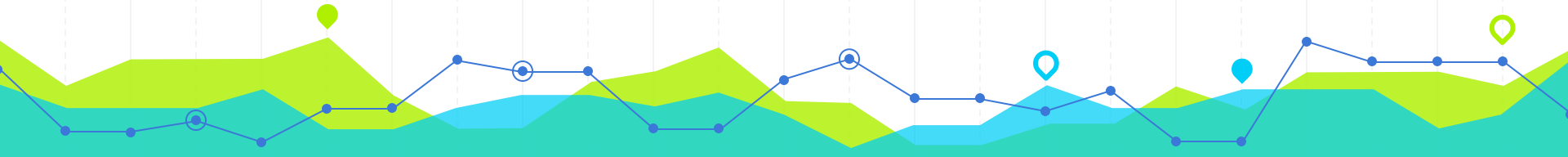


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Blockchain's Limitations

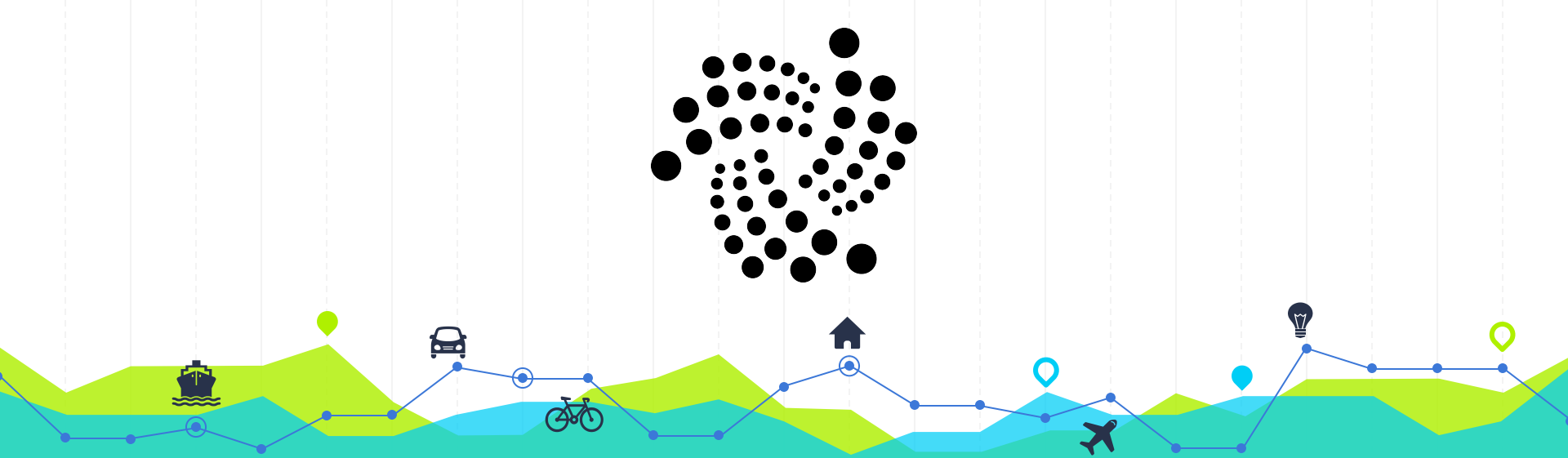
- Scalability
- Storage
- Bandwidth
- Fees
- No Data Privacy
- Expensive Data Storage



IoT's Requirements

- Low Resource Consumption
- Widespread interoperability
- Billions of nano-transactions





IOTA

Ledger of Things



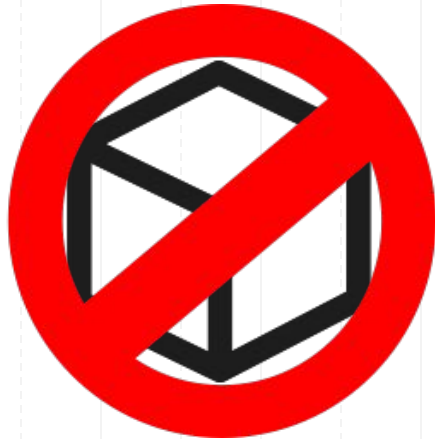
The solution

Rethink from scratch

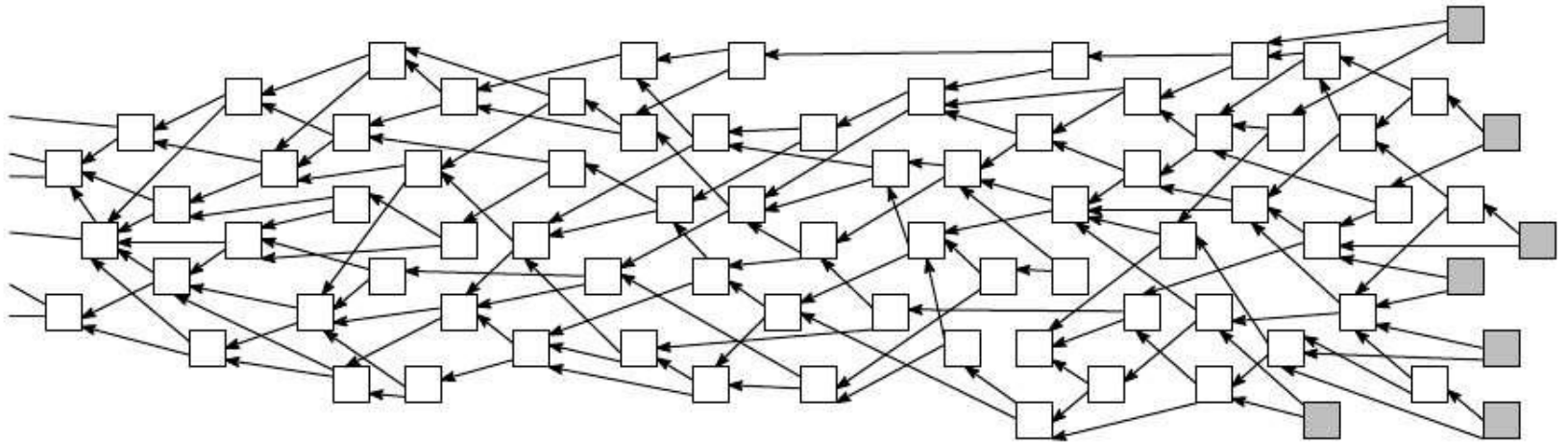
A revolutionary new distributed ledger designed for **Machine-to-Machine interactions.**

Tangle

**Blockchain without the Blocks
and the Chain. What???**



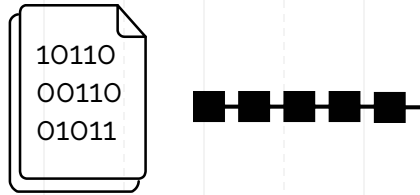
Tangle



Read our Whitepaper: https://iotatoken.com/IOTA_Whitepaper.pdf

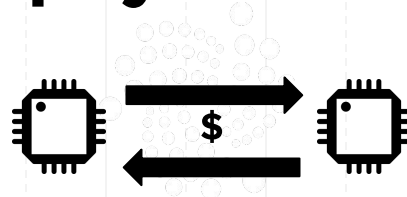
IOTA at its Core

Data Security



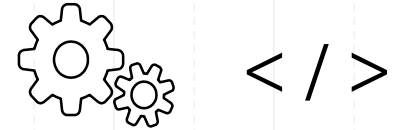
All data cryptographically secured in a **Tangle**. This data can be made visible to certain parties.

M2M payments

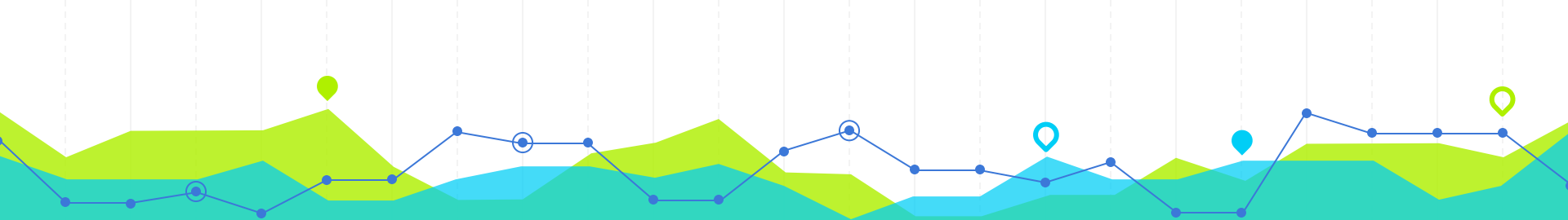


Machine to Machine micropayments. This way machines can pay each other for certain services and resources.

Automate



Through **Smart Contracts** we can automate processes and introduce new ones that give rise to a **10x** solution.



- **No Fees**

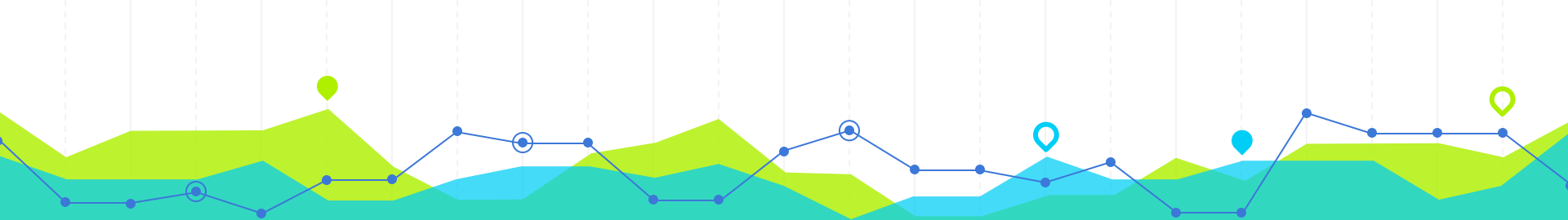
- **Data Integrity**

- **Scalable**

- **Lightweight**

- **Quantum Secure**

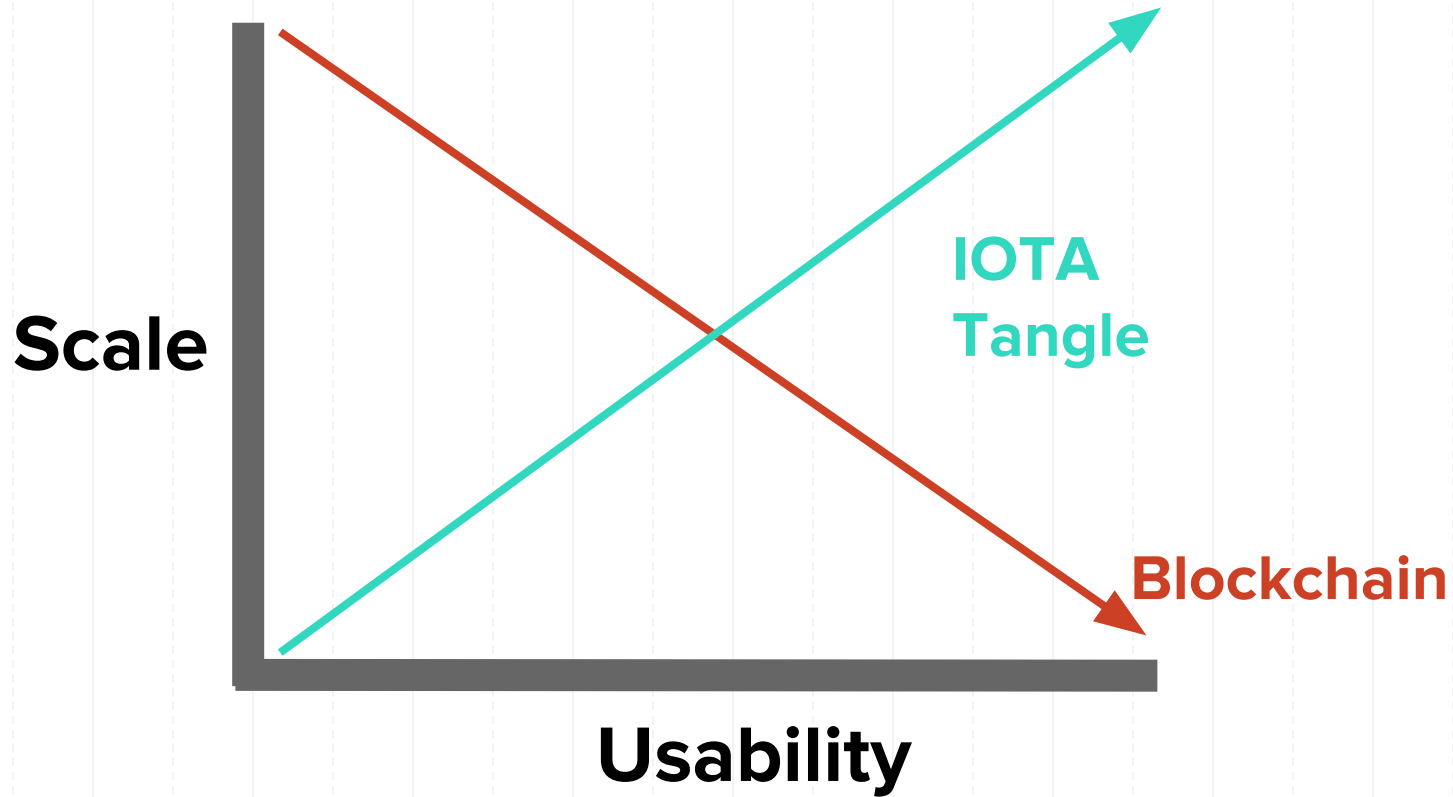
- **Offline**



\$0.01

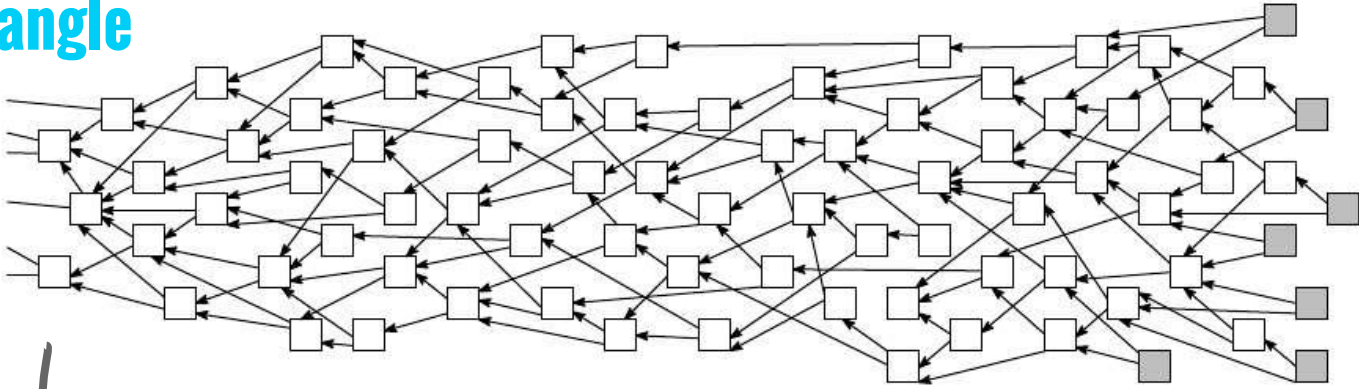


Scalability

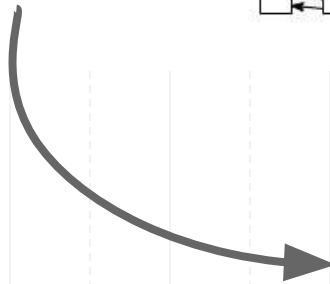
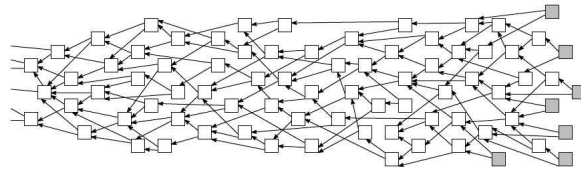


Go Offline

Main Tangle



Offline Tangle Cluster



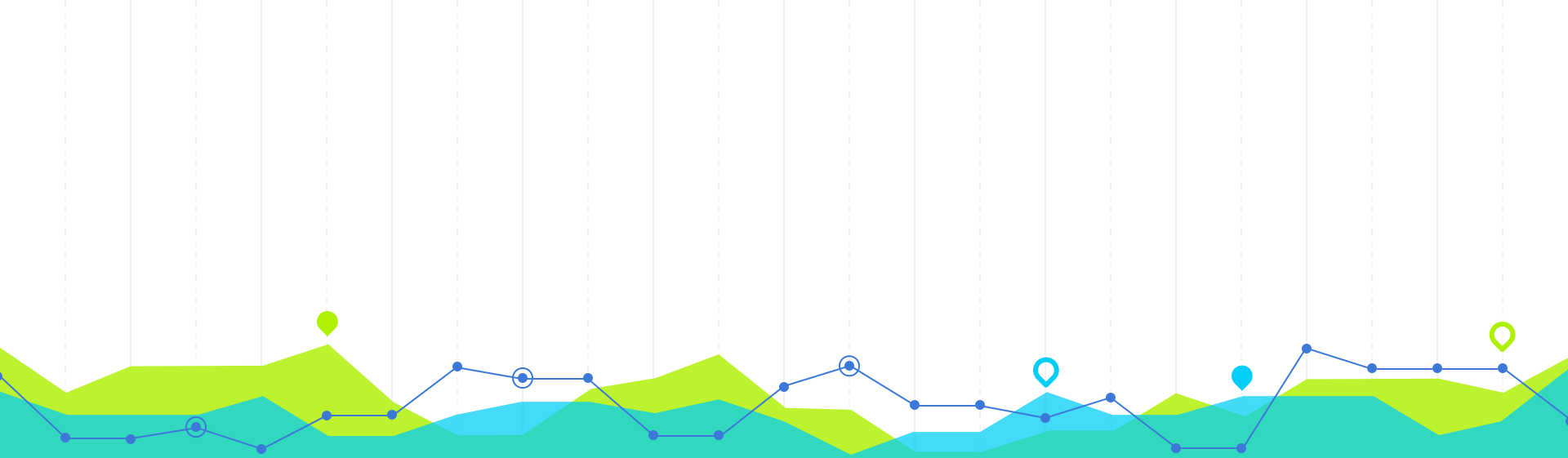
Smart Contracts

If this then that

Turing Completeness



- ✓ Security
- ✓ Very Cheap
- ✓ Scalable
- ✓ Low Entry Barrier
(based on SQL)



OUR VISION

It's all about Smart

- Smart Cities
- Smart Infrastructure
- Smart Mobility
- Smart Logistics
- ...



We are entering the age of **smart decentralization**



Dumb Decentralization

- "Dumb" devices
- No connectivity / sharing of data
- Human mediators

Smart Centralization

- Smart devices, dumb network
- Cloud as decision maker

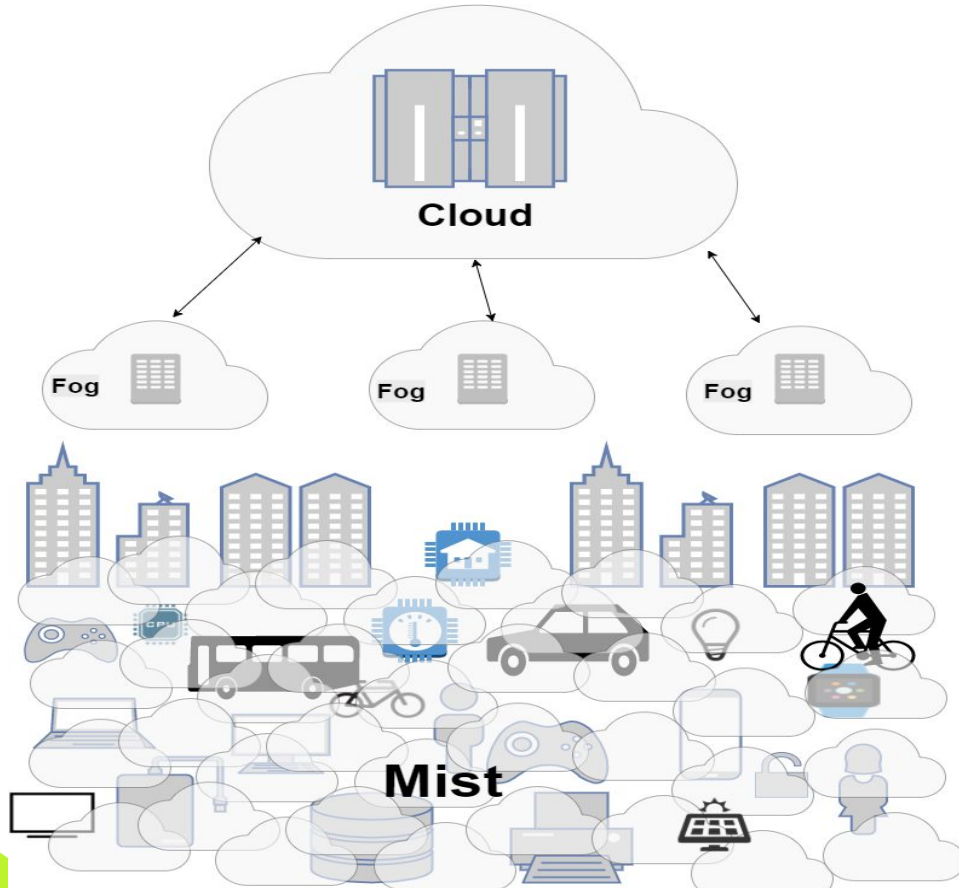
Smart Decentralization

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



Smart Decentralization

Cloud, Fog and Mist



Requirements

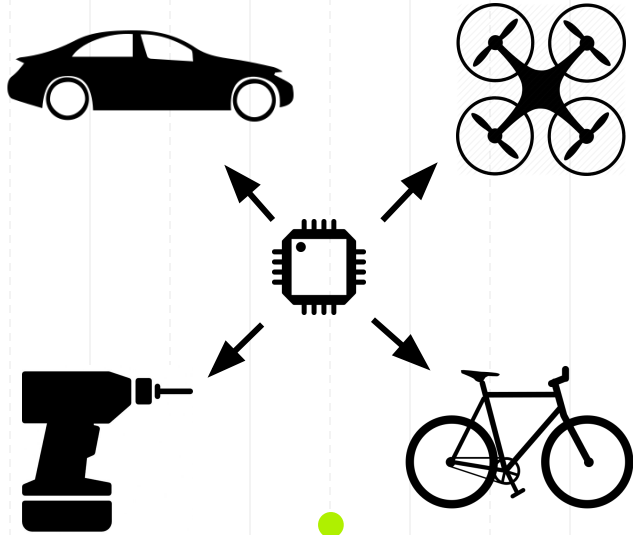
- Real Time Processing
- Avoid network congestion and signal collisions
- Incentive for interoperability
- Data Integrity
- Cisco & IBM love the fog

Economy of Things

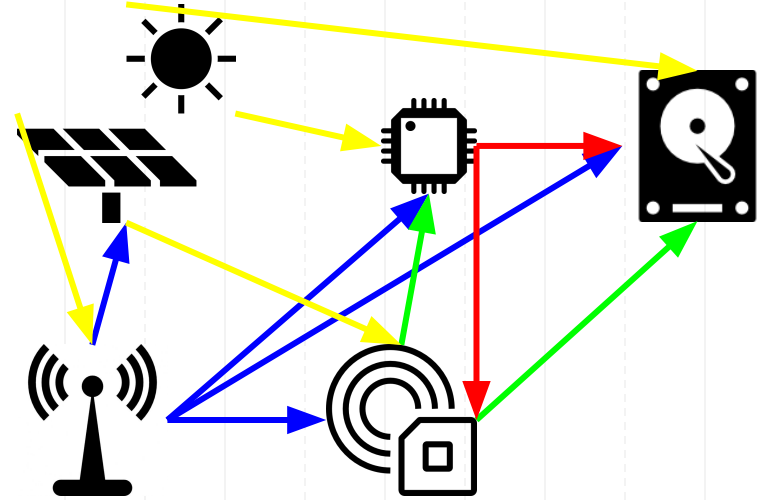


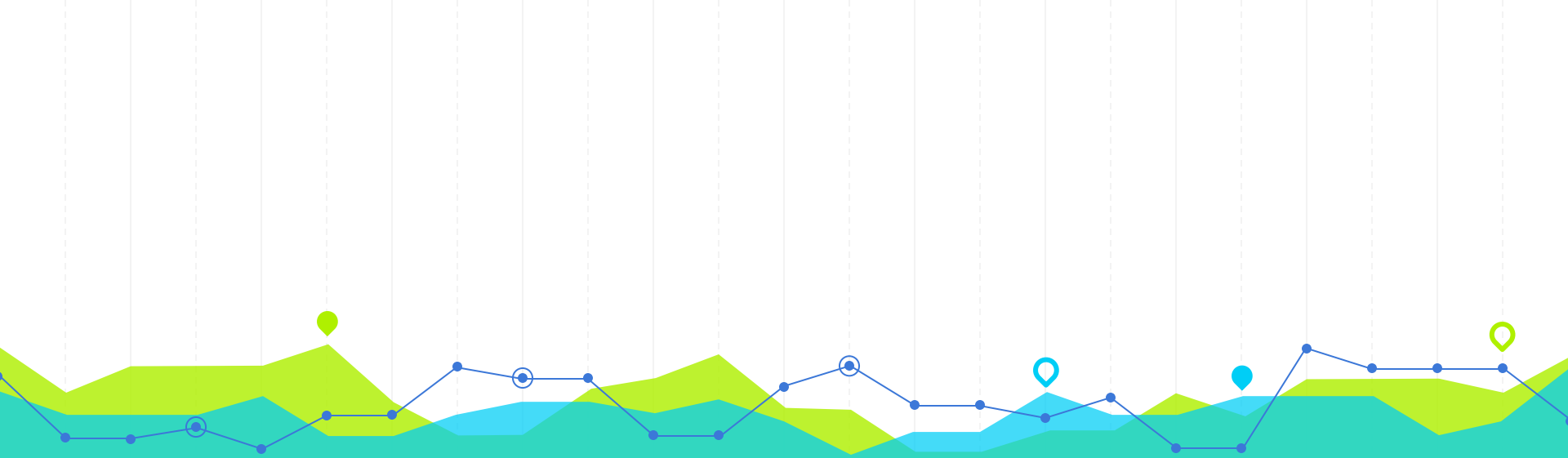
Sharing Economy 2.0

Anything with a chip in it can be leased



Devices trade resources among each other

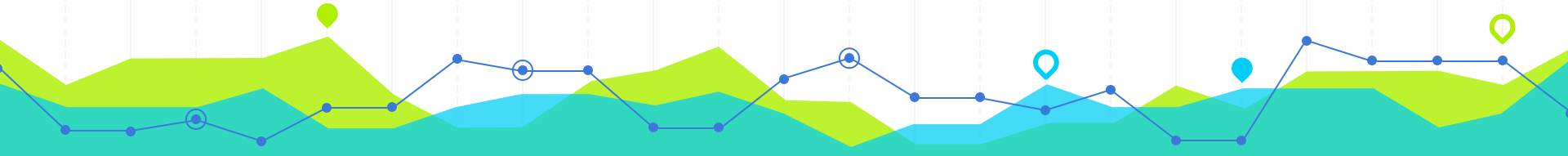




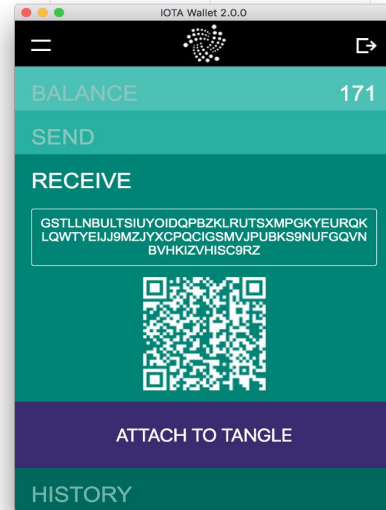
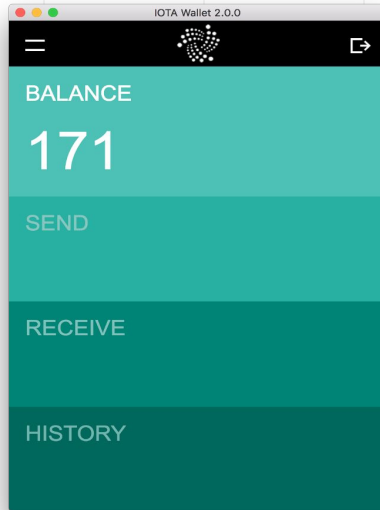
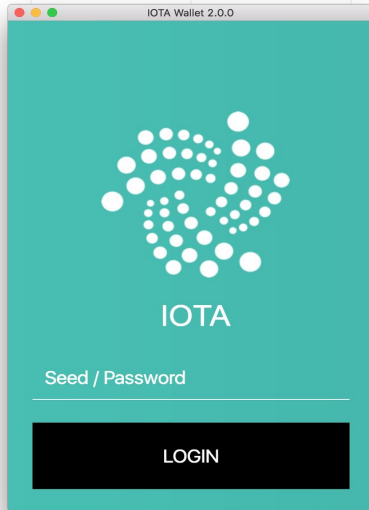
CURRENT STAGE

Protocol and Network Statistics

- Official launch July 11th
- **1.5 years** of development and testing
- Community of 1000+
- More than **2m transactions**
- **\$50m+** of value transferred
- **More transactions** per second than **any** blockchain



<https://github.com/iotaledger>



IOTA Foundation

We are an **open-source, non-profit** Foundation in Germany. Goal of the Foundation is it to establish IOTA as a standard in the IoT stack.



IOTA Foundation

- Team of 16+
- \$1m+ invested in protocol
- Offices in Oslo and Berlin (globally distributed)
- Leading experts in Cryptography, Security and Distributed Systems



Foundation members



David Sønstebo



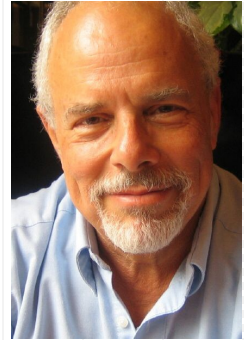
Dominik Schiener



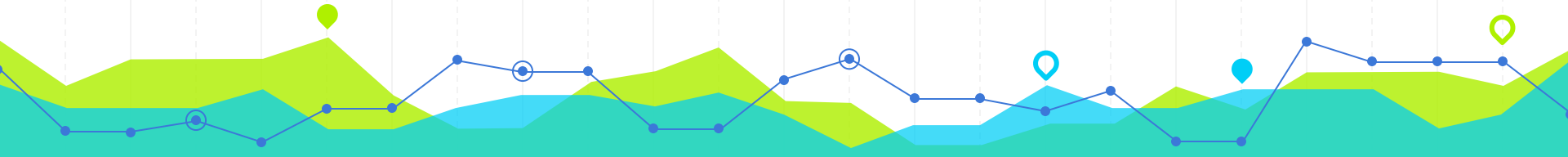
Sergey Ivancheglo



Ph.D Serguei Popov



Ph.D Gideon Samid



Foundation Advisors



Pindar Wong

VeriFi
ICANN
Internet Society
Belt and Road



**Mervyn
Maistry**

Ernst & Young
Deutsche Bank
Accenture
BASF
Novartis



Chris Skinner

The Finanser
Nordic Finance
Innovation
Balatro
Unisys



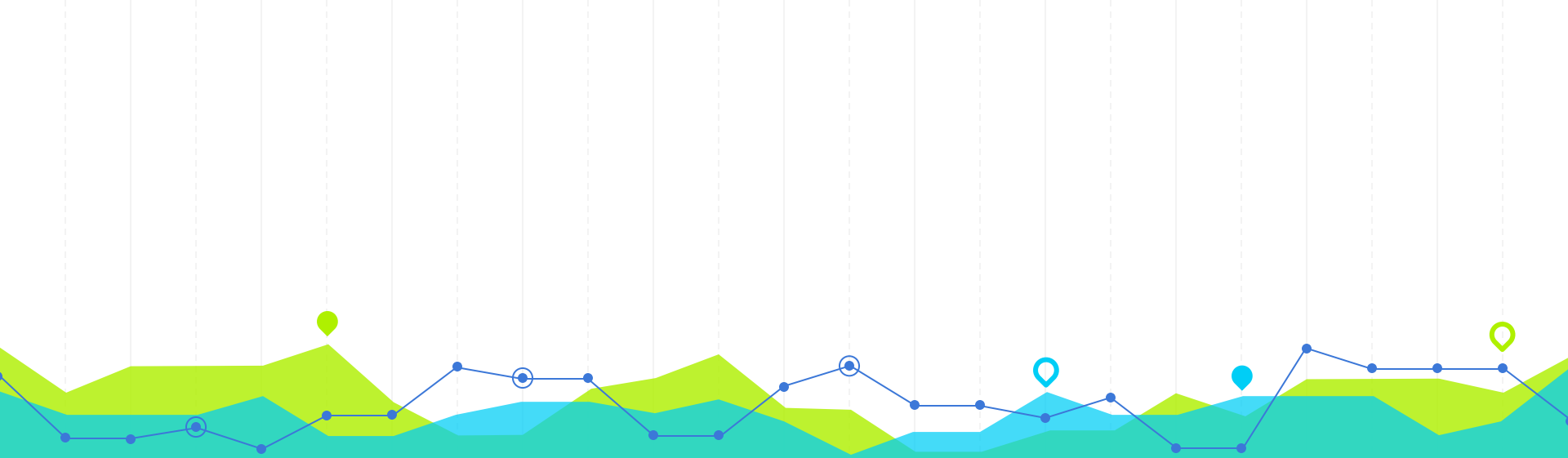
Carsten Stöcker

Innovation@RWE
Cisco
Accenture
World Economic
Forum



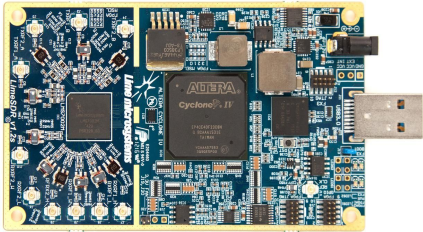
Per Lind

Bang & Olufsen
Aston Martin
Thai Government



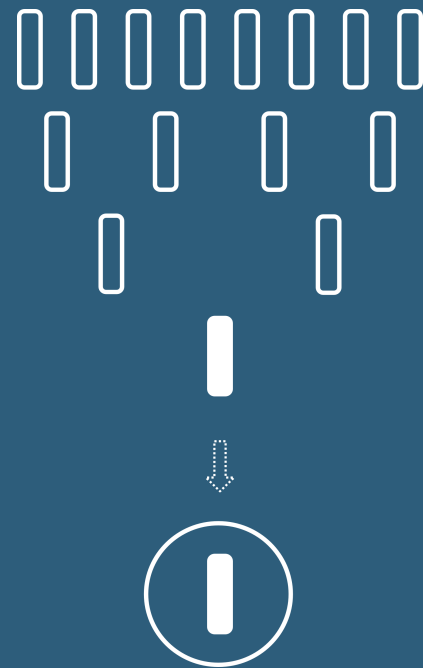
USE CASES

Bandwidth on demand



- LimeSDR with Canonical
- LoRa access on Demand
- Pay per Byte that you receive
- Network is able to scale dynamically

- Real-time encryption of **gigabytes of data**
- Guaranteed **confidentiality** and **privacy**
- Independently **verifiable**
- **Quantum-secure**

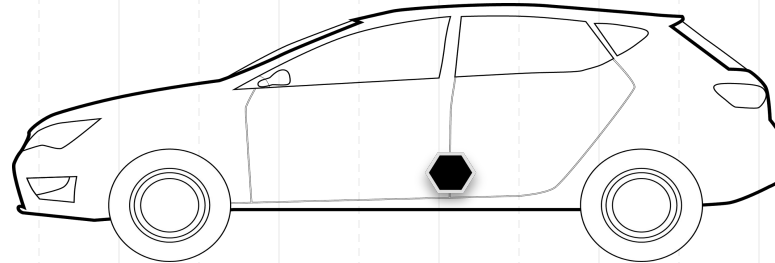


Connected Vehicles

Advanced
Intrusion
Detection

Tamper-proof
Data Security

Authenticity

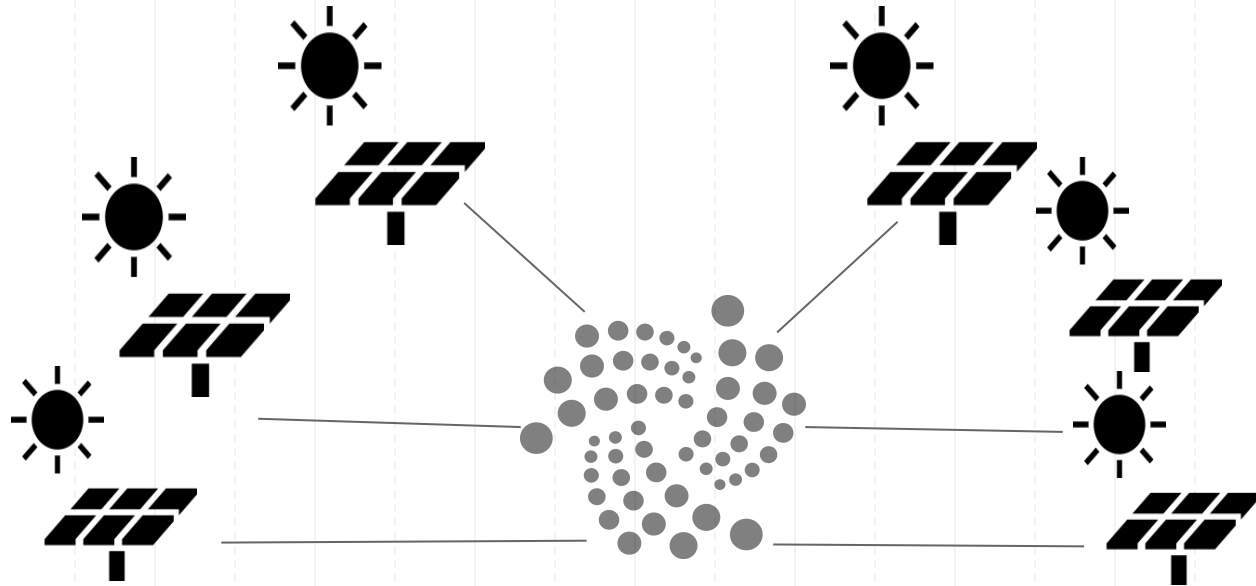


Tamper-evident

Digital Chain
of Custody

End to end
system integrity

Smart-Grid



Other Use Cases

- Supply Chain Visibility
- Sensor Data selling & Data Marketplace
- On-demand API access
- Data Integrity (insurance, banking, etc.)



QUESTIONS?

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