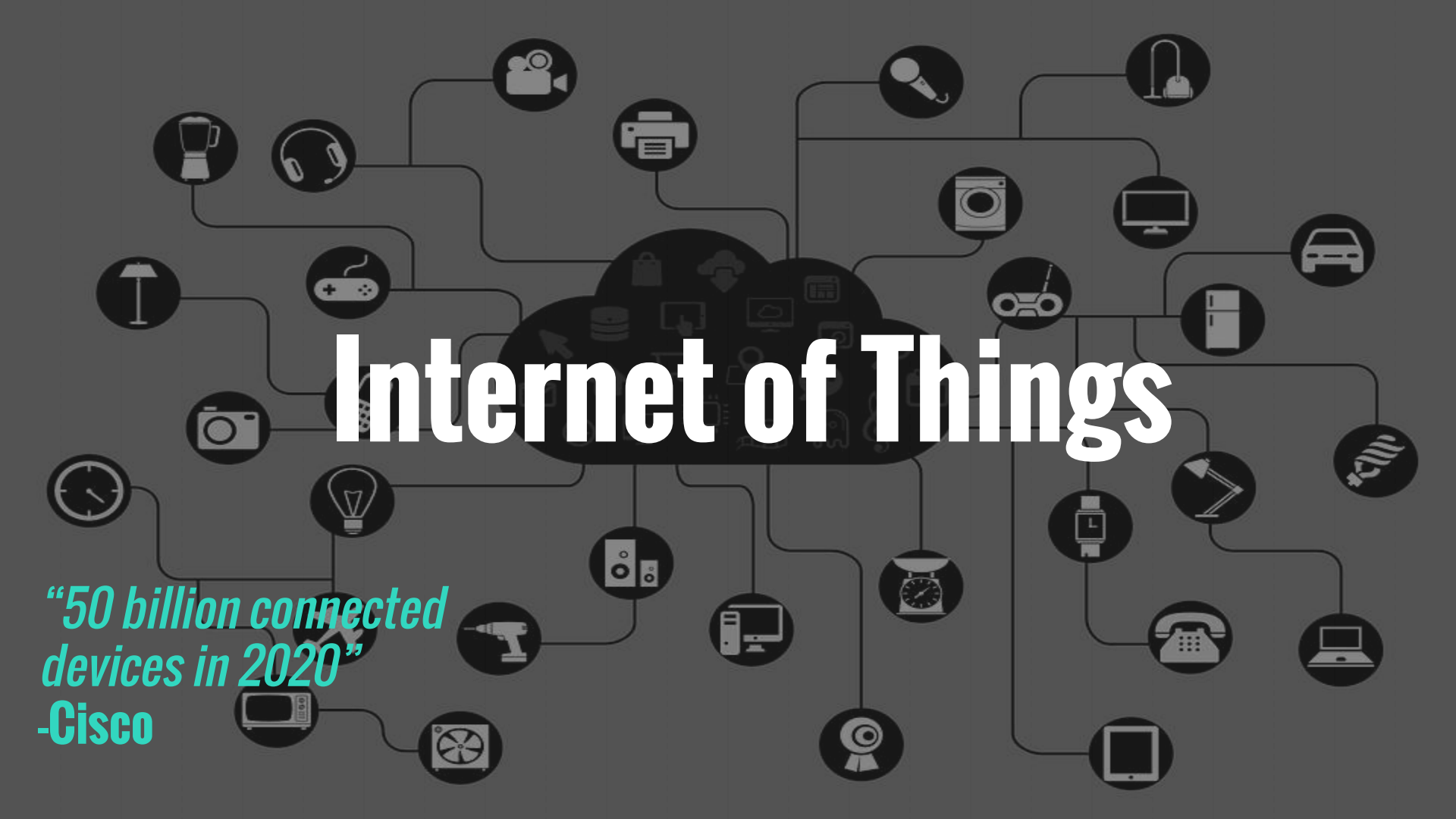
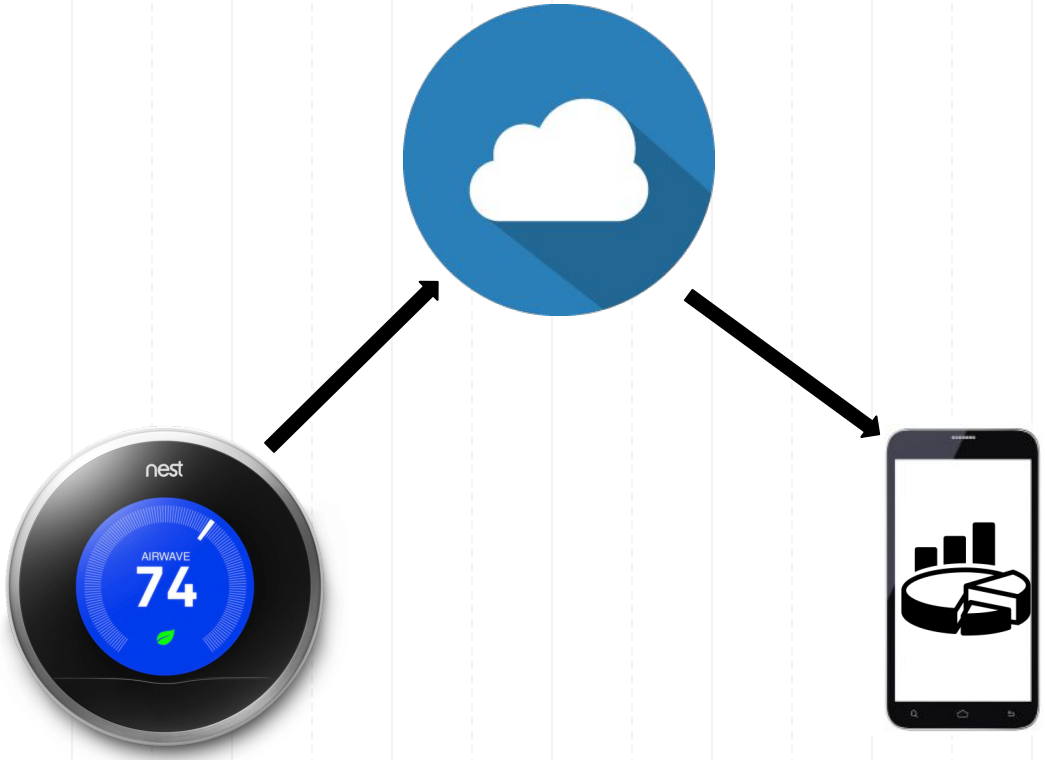
# IOTA

## Ledger of Things

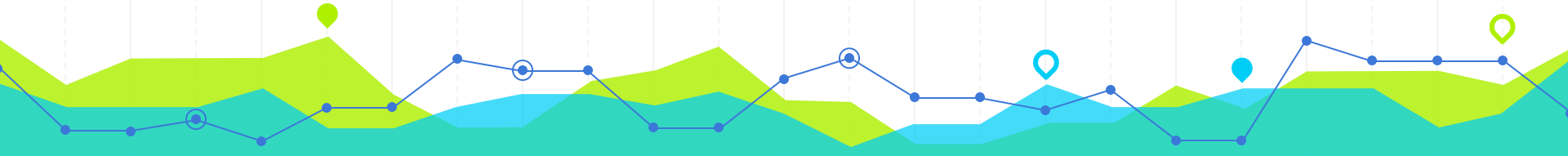

Internet of Things
“50 billion connected devices in 2020”
-Cisco


Smart Centralization
gettyimages
485090726

# Cloud EVERYTHING

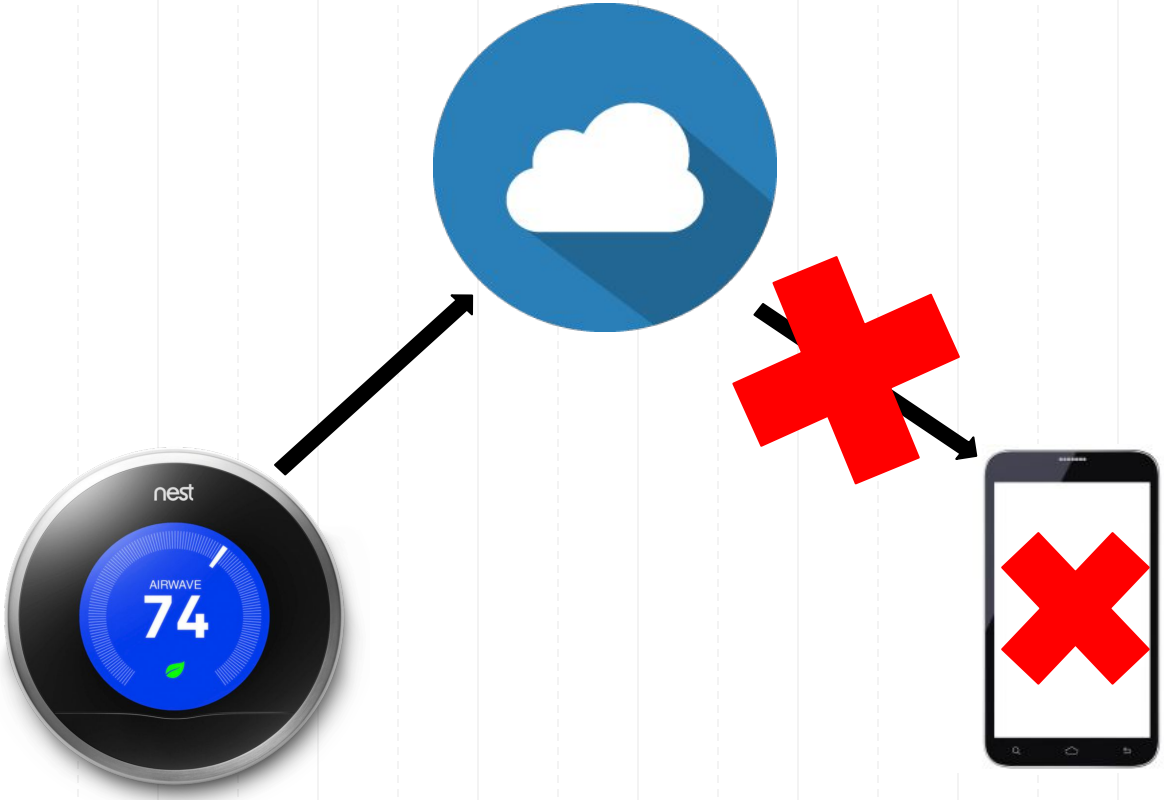


# Problems of IoT

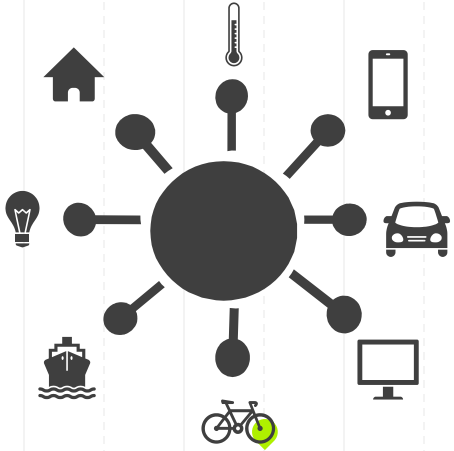


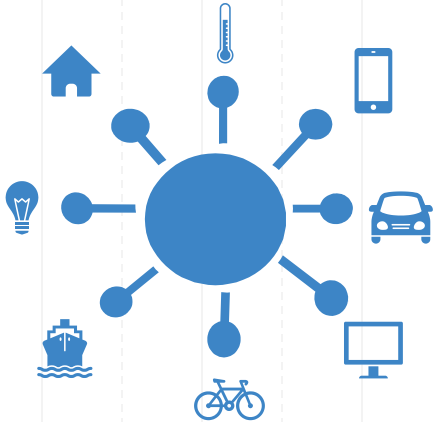
# Single Source of Failure

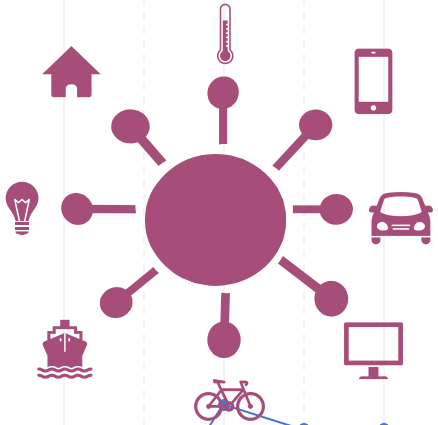
# Censorship



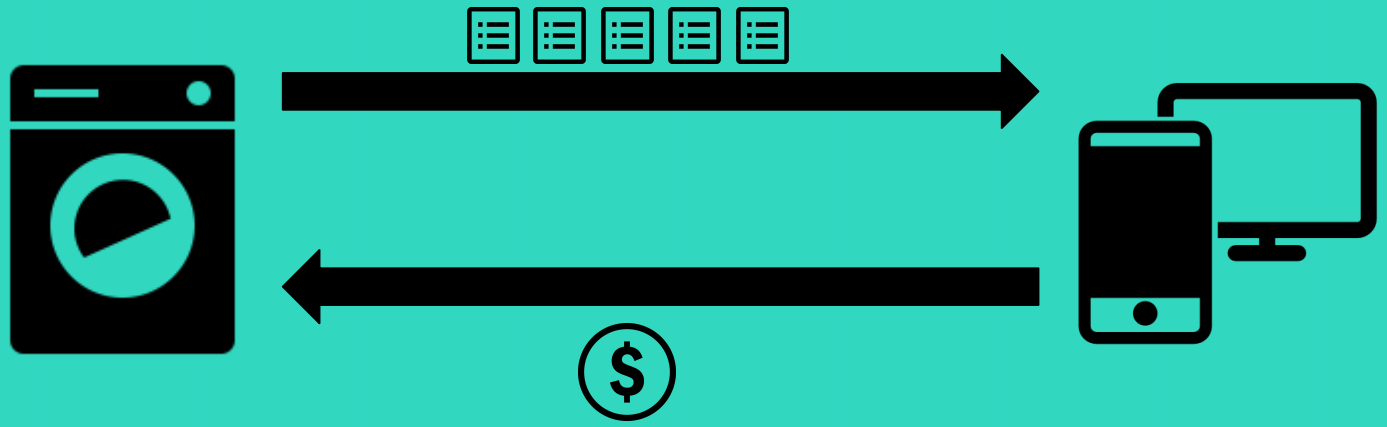
# Smart Devices, Dumb Network







# Data Transfer

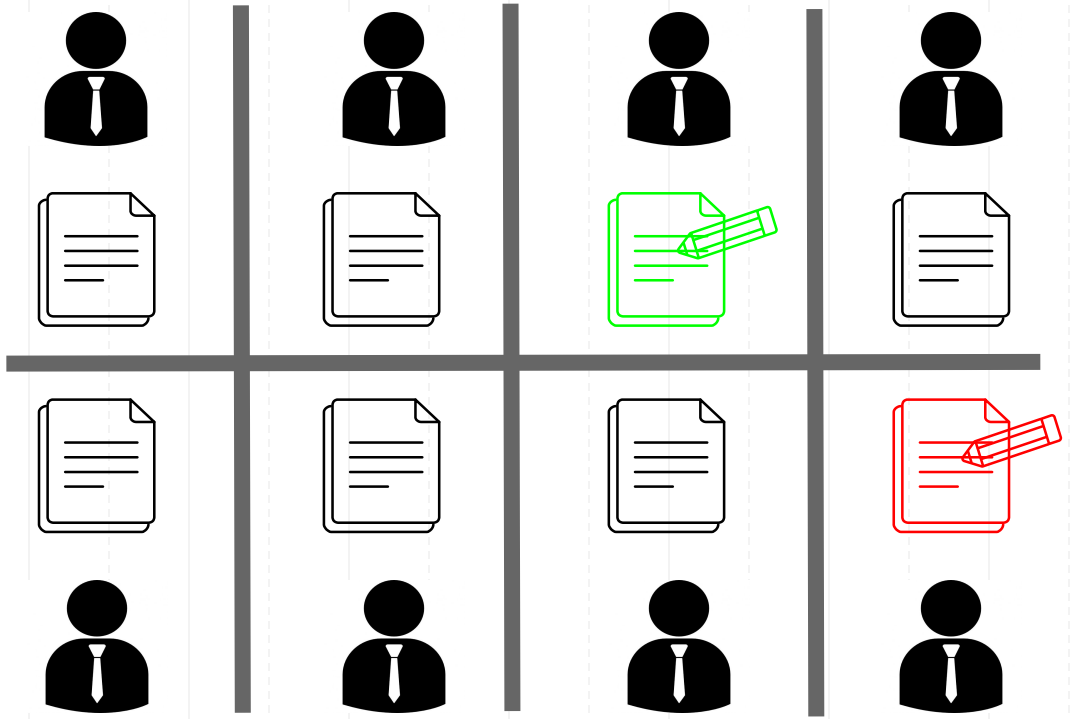


# Money Transfer


*“Why the Blockchain Is the Biggest Thing Since the Internet”*
-NASDAQ
Distributed Ledgers

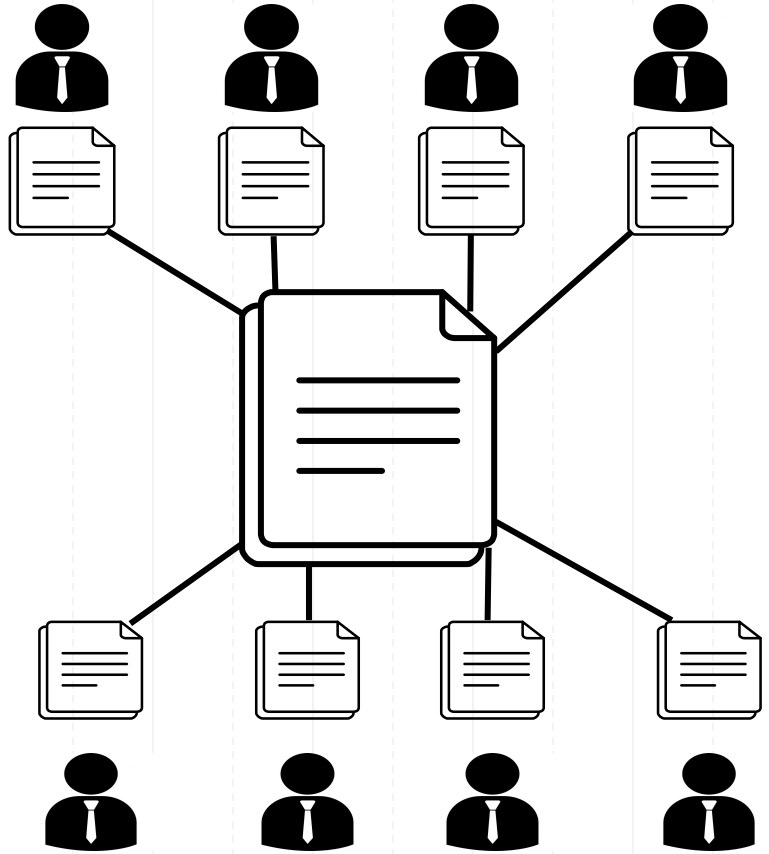
# Traditional Ledgers

- Every party has an individual copy
- **Prone** to **tampering**
- High cost to compare datasets
- No way of verifying the original dataset

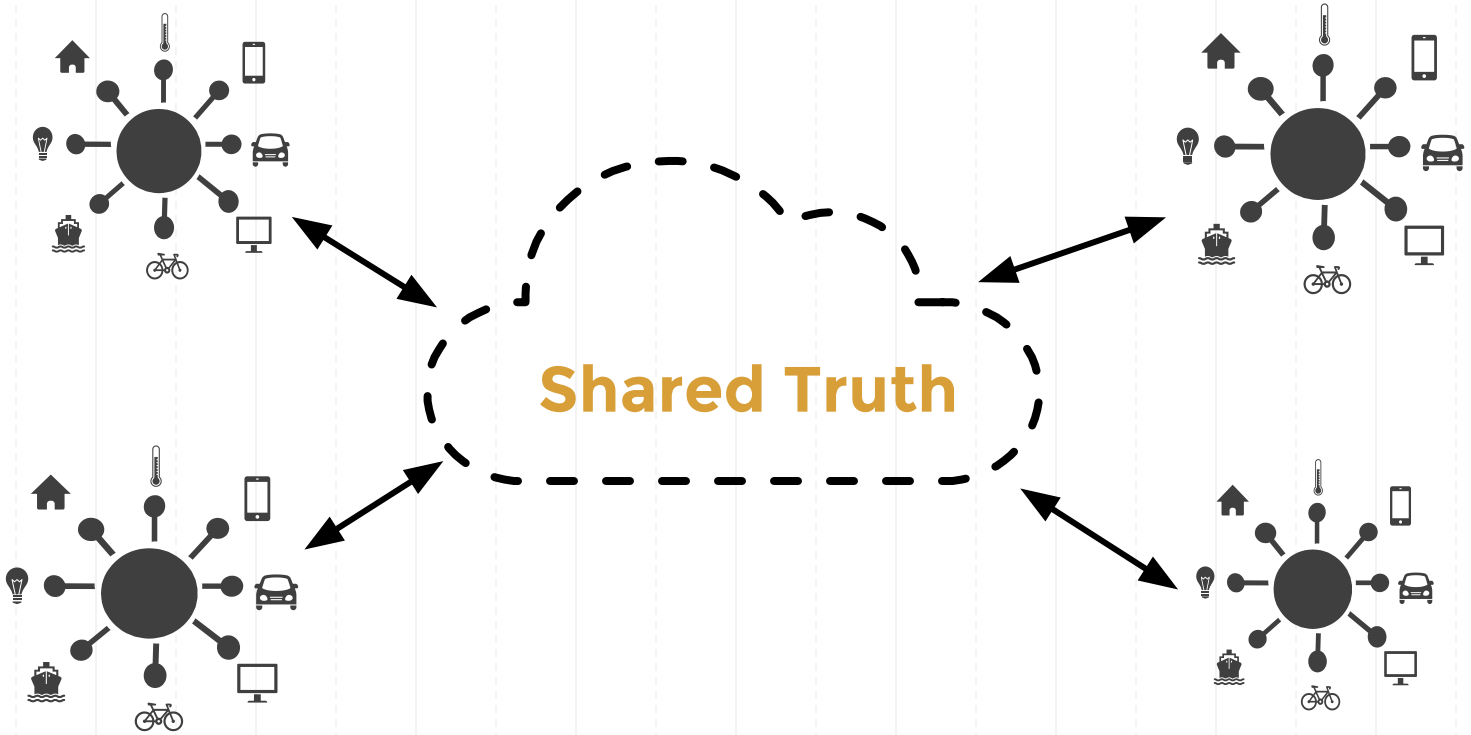


# Distributed Ledger

- Datasets **shared** amongst all parties
- **Every party** can verify the datasets of other participants in the network
- Tampered datasets are **excluded**
- An immutable **single source of truth** is established



# Single Source of Truth



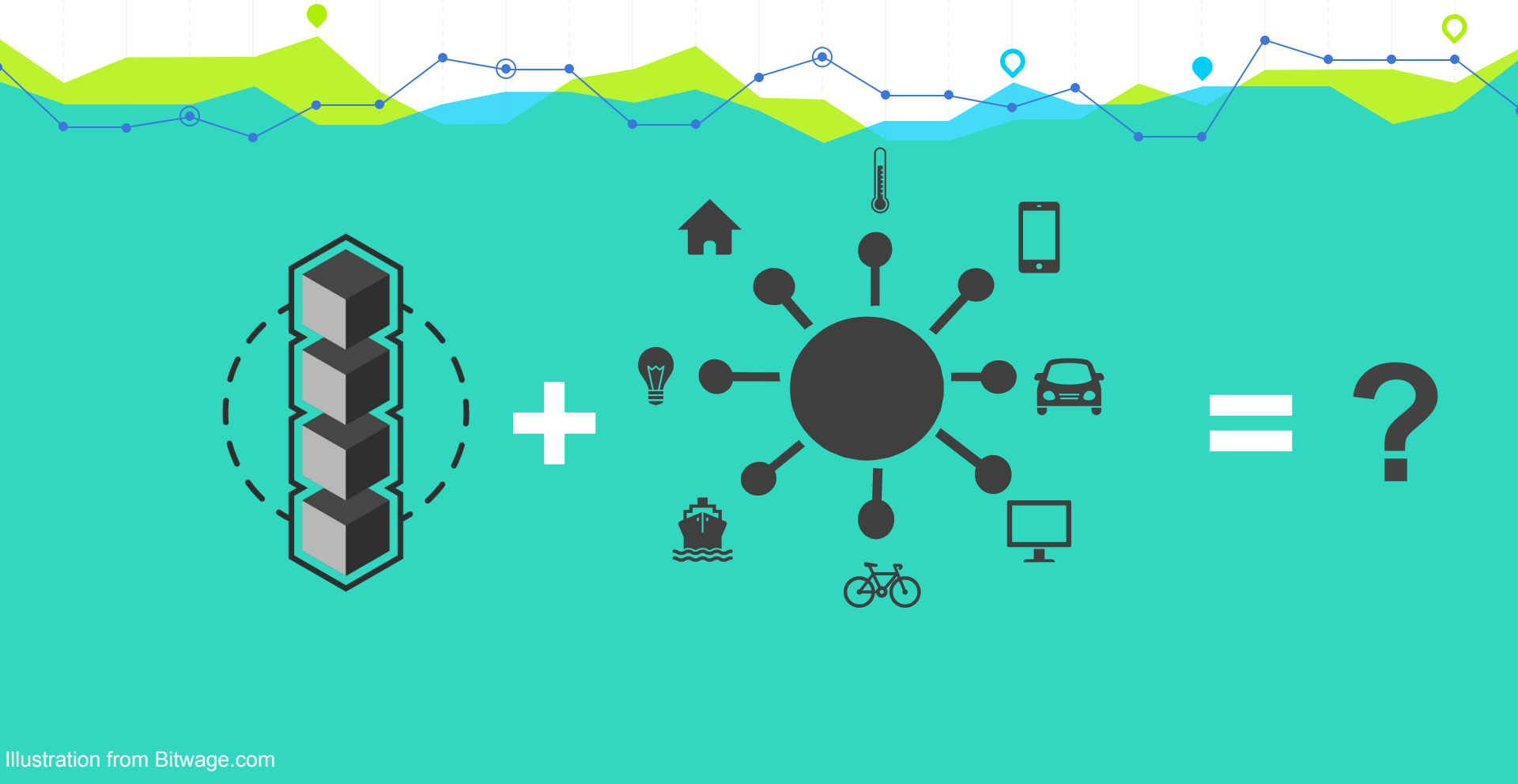
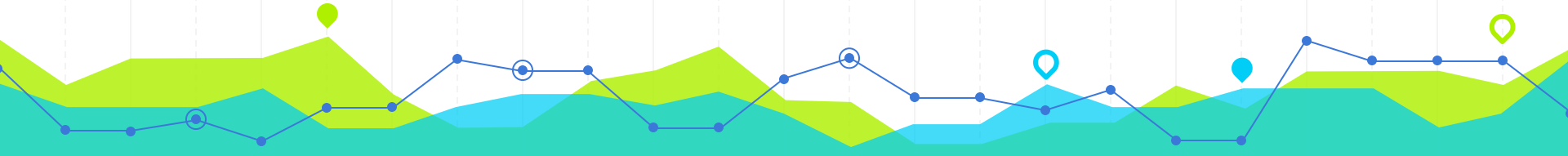


Illustration from Bitwage.com

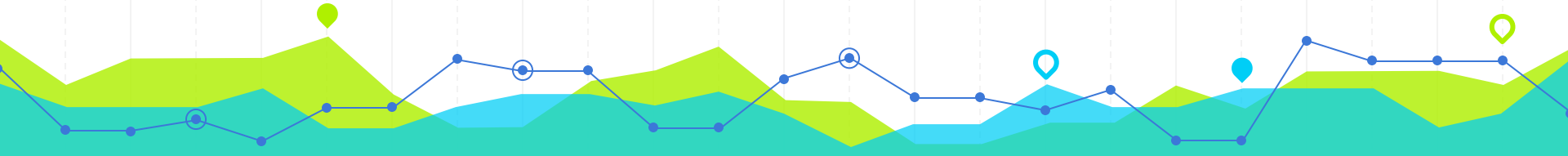
# Blockchain's Limitations

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



# IoT Requirements

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



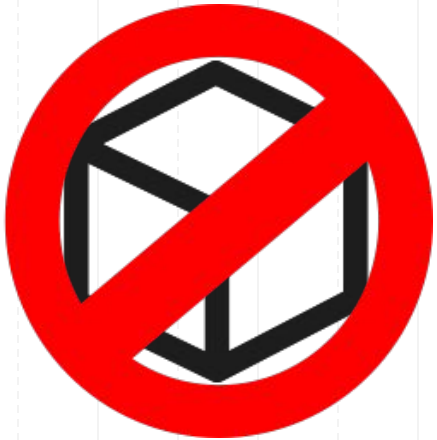
# The solution

Rethink from scratch

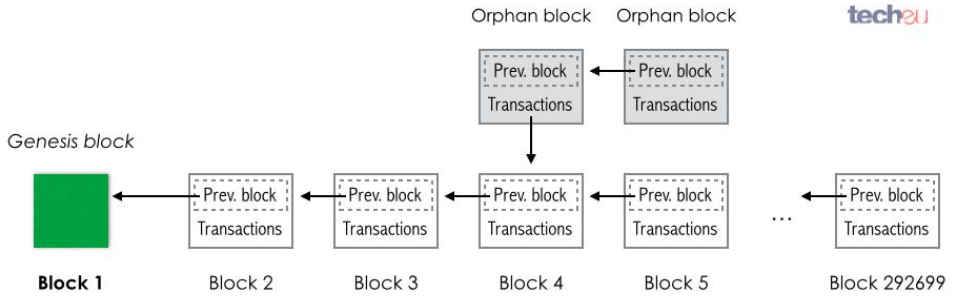
A revolutionary new distributed ledger designed for **Machine-to-Machine interactions**.

# Tangle

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



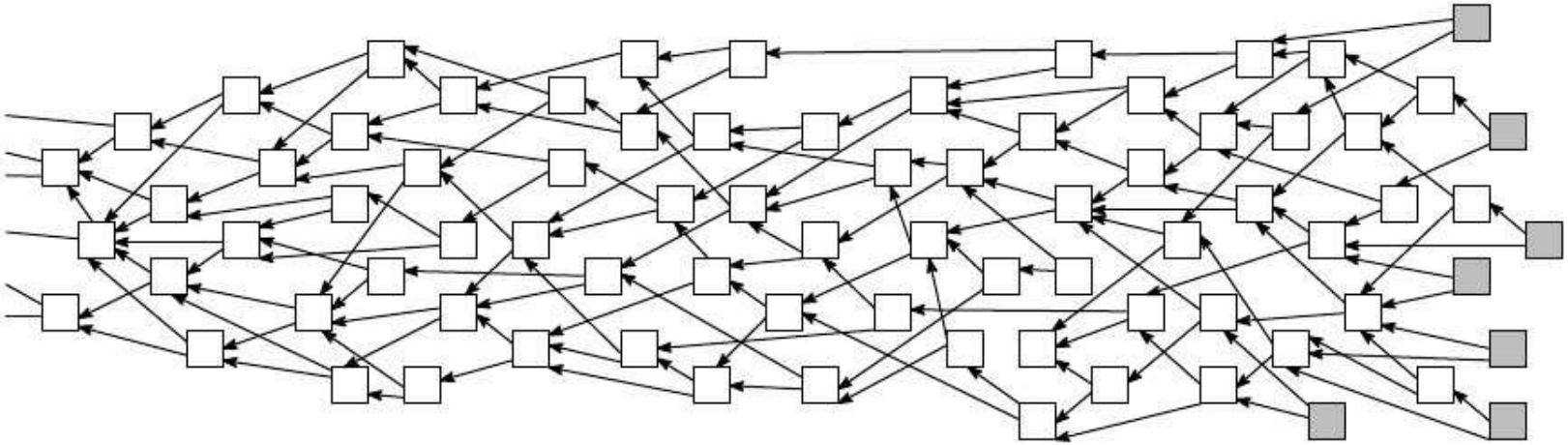
# Blockchain




*“Include my transaction, here is my fee”*

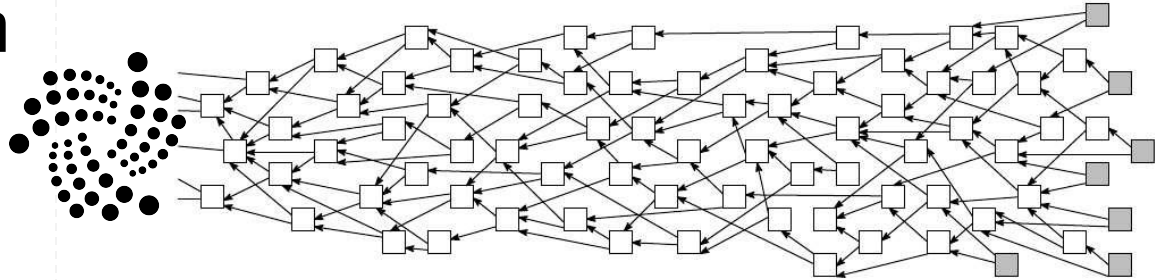
- Limited to Block Size and Time
- Not scalable
- Transaction Censorship (fee thresholds)
- Centralization
- Consensus Decoupled
- 80% of miners from China
- ...

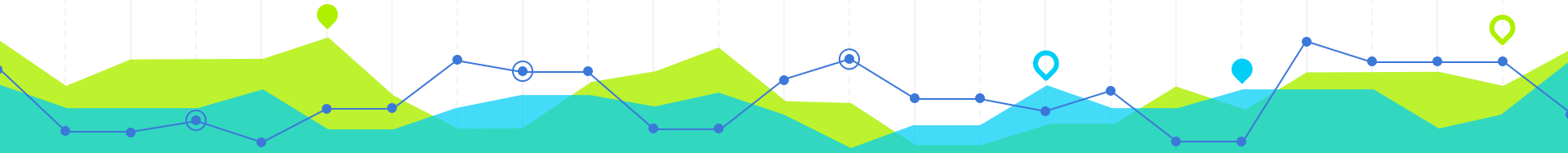
# Tangle



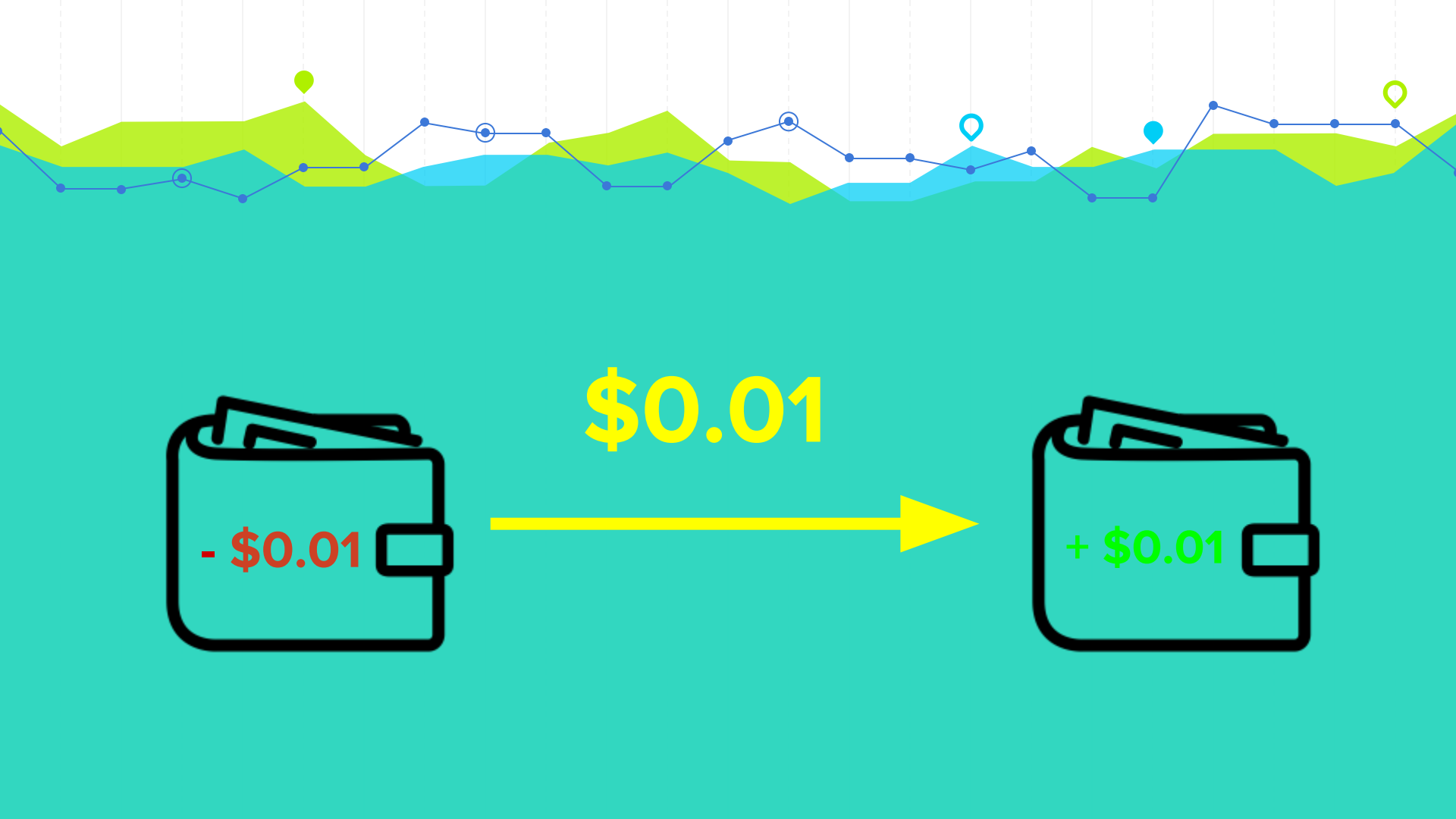
# Tangle

- Bundles all transactions in a Directed Acyclic Graph (DAG)
- Completely **self-regulating**, consensus no longer decoupled
- Very **Scalable**. Low overhead Proof-of-Work to prevent spam



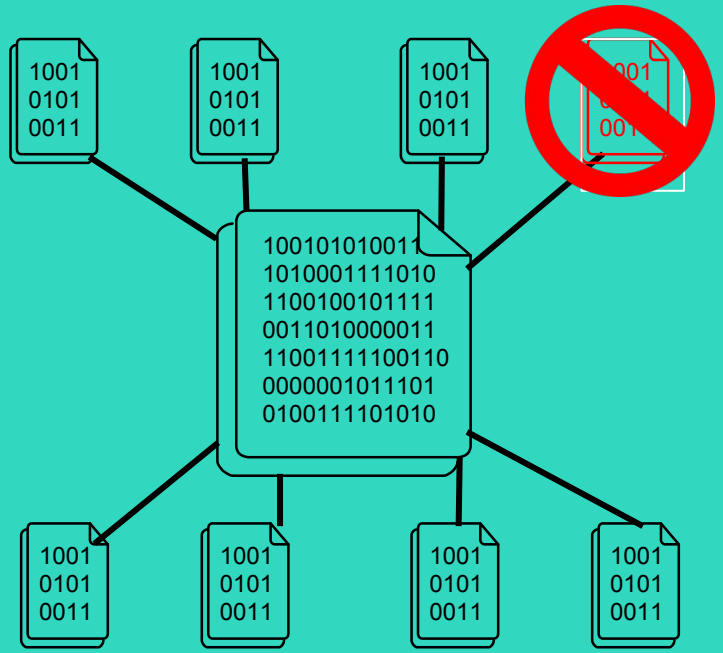


- No Fees
- Scalable
- Quantum Proof
- Modular
- Lightweight
- Offline

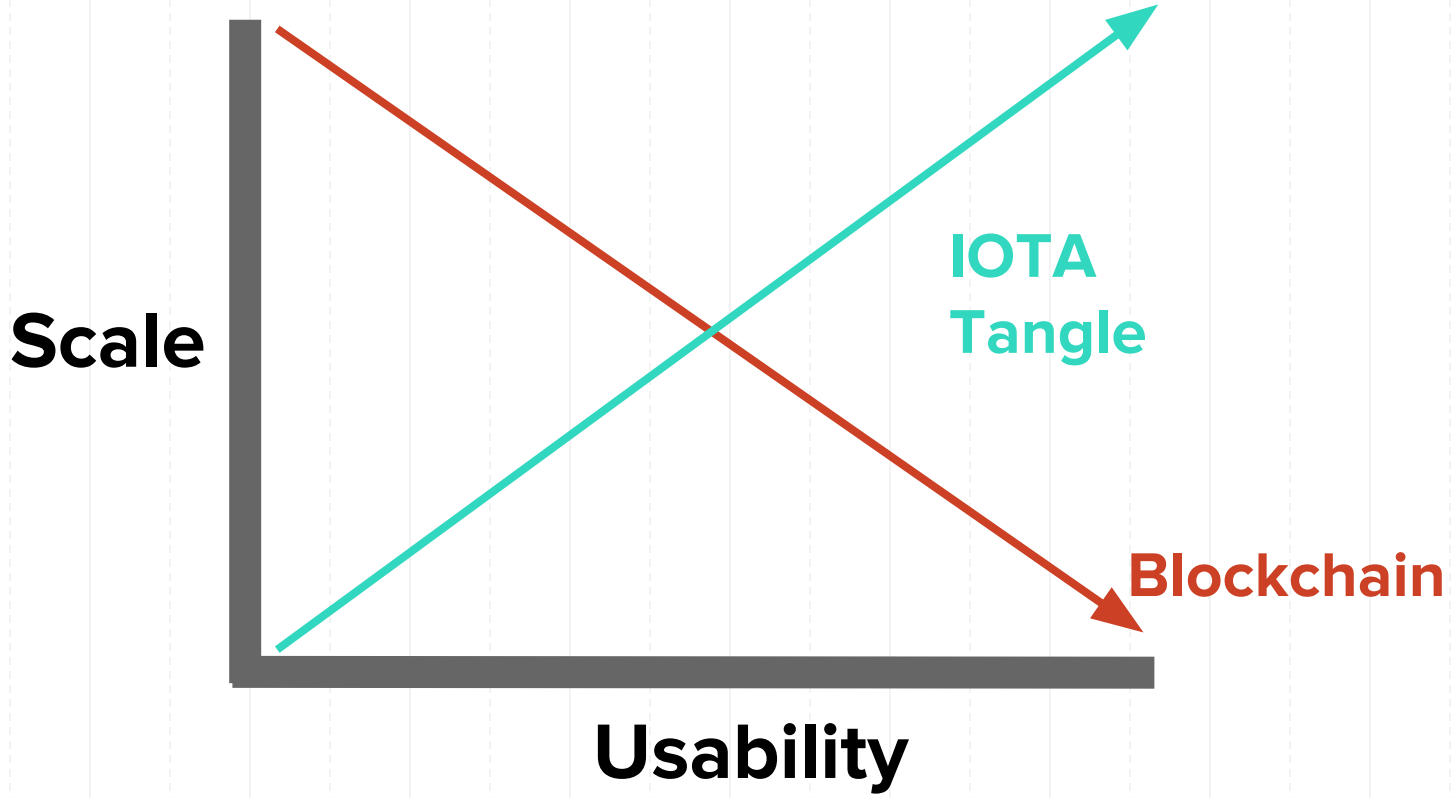

$0.01
- $0.01
+ $0.01

# Data Integrity

- Data is **tamper-proof**
- Enables automatic processes
- Remove humans from the equation

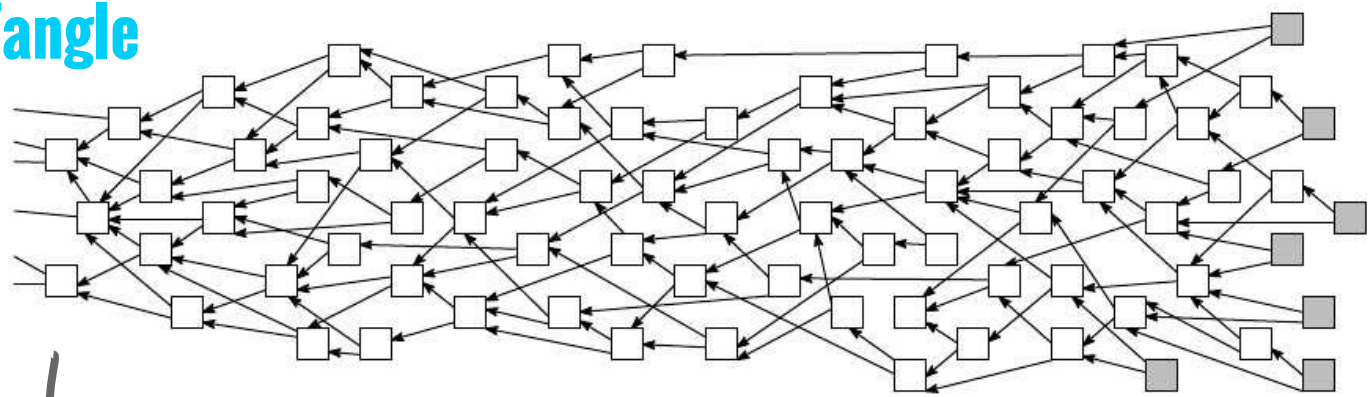


# Scalability

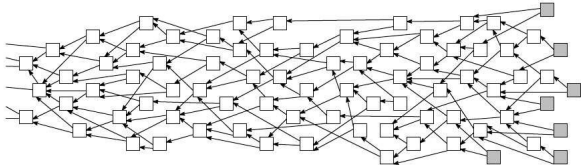


# Go Offline

## Main Tangle



## Offline Tangle Cluster

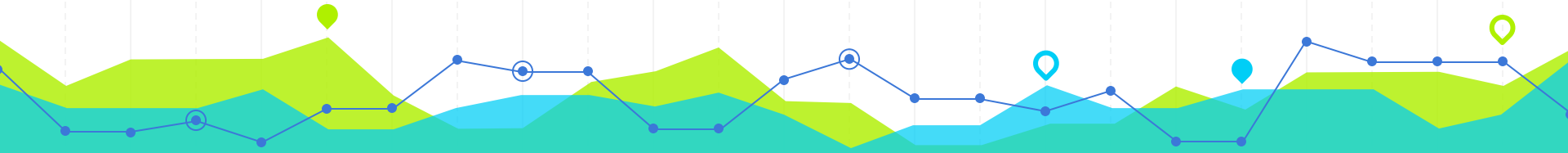


# Smart Contracts

If **this** then **that**

Turing Completeness

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

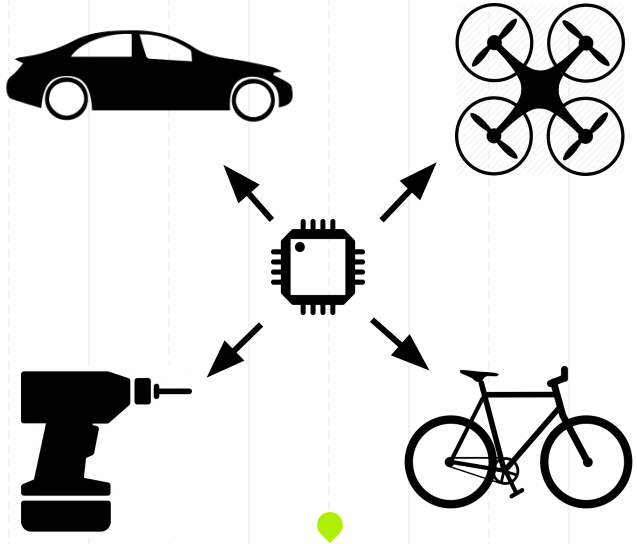


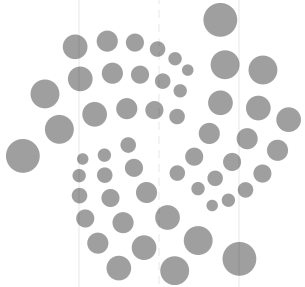
# OUR VISION

# Economy of Things

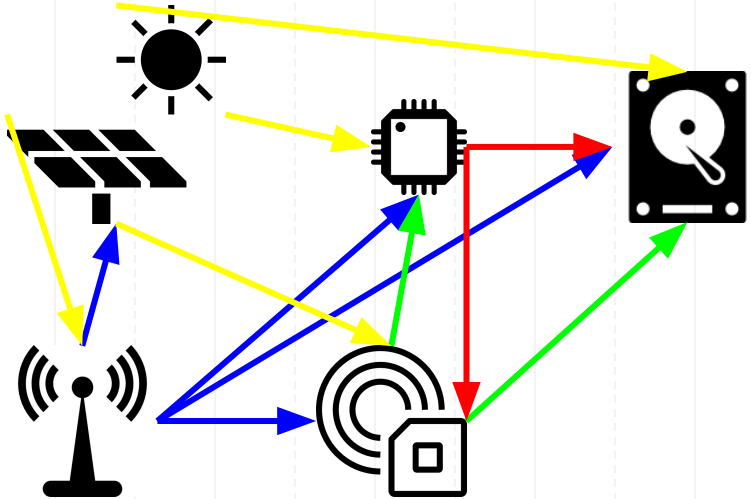
# Sharing Economy 2.0

Anything with a chip in it can be leased

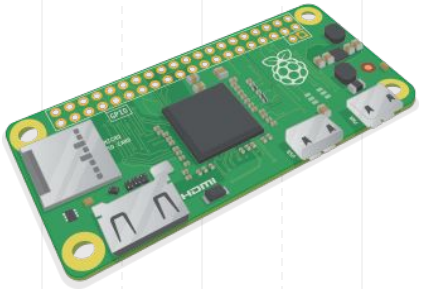




Devices trade resources among each other



# No longer bound to machines hardware!



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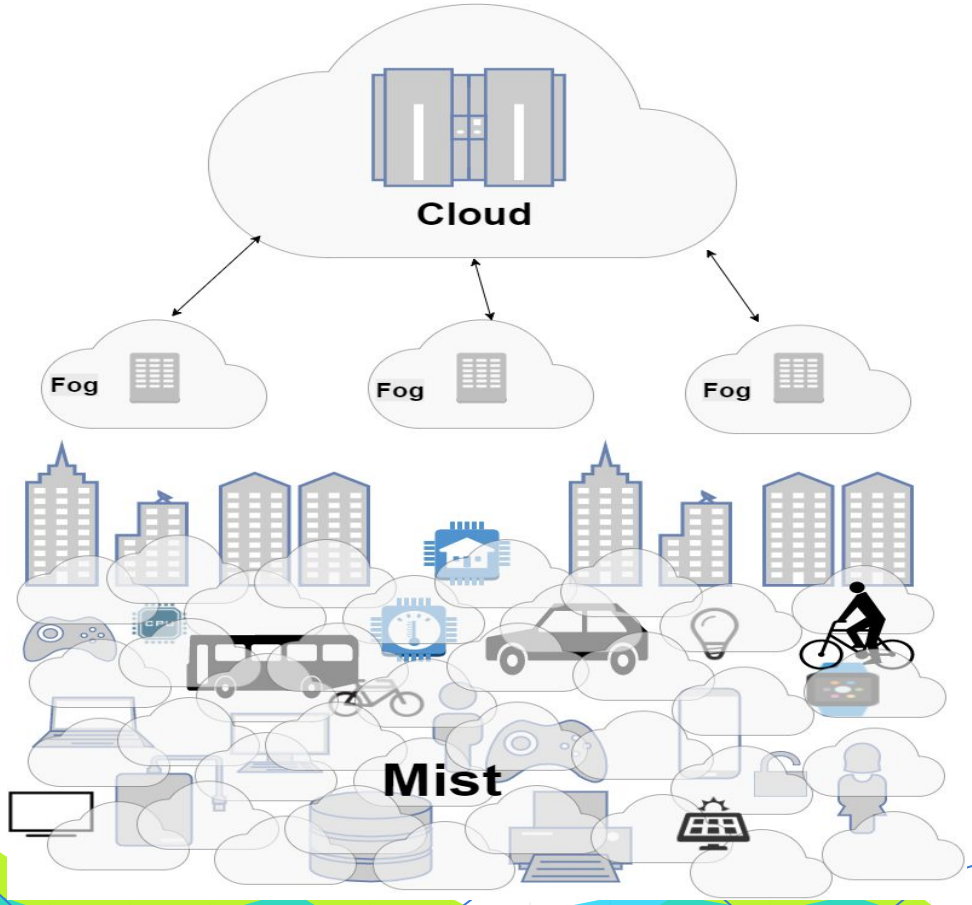
# Cloud, Fog and Mist

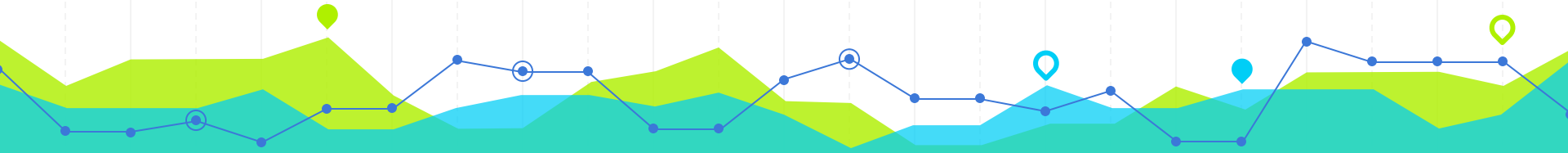



CORE

EDGE

## Requirements

- Real Time Processing
- Avoid network congestion and signal collisions
- Incentive for interoperability
- Data Integrity



# CURRENT STAGE

# Protocol and Network Statistics

- Official launch July 11th
- **1 year** of development and testing
- Community of 1000+
- More than **2m transactions**
- **$60m+** of value transferred
- **More transactions** per second than **any** blockchain

# IOTA Foundation

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

# Foundation members

David Sønstebø

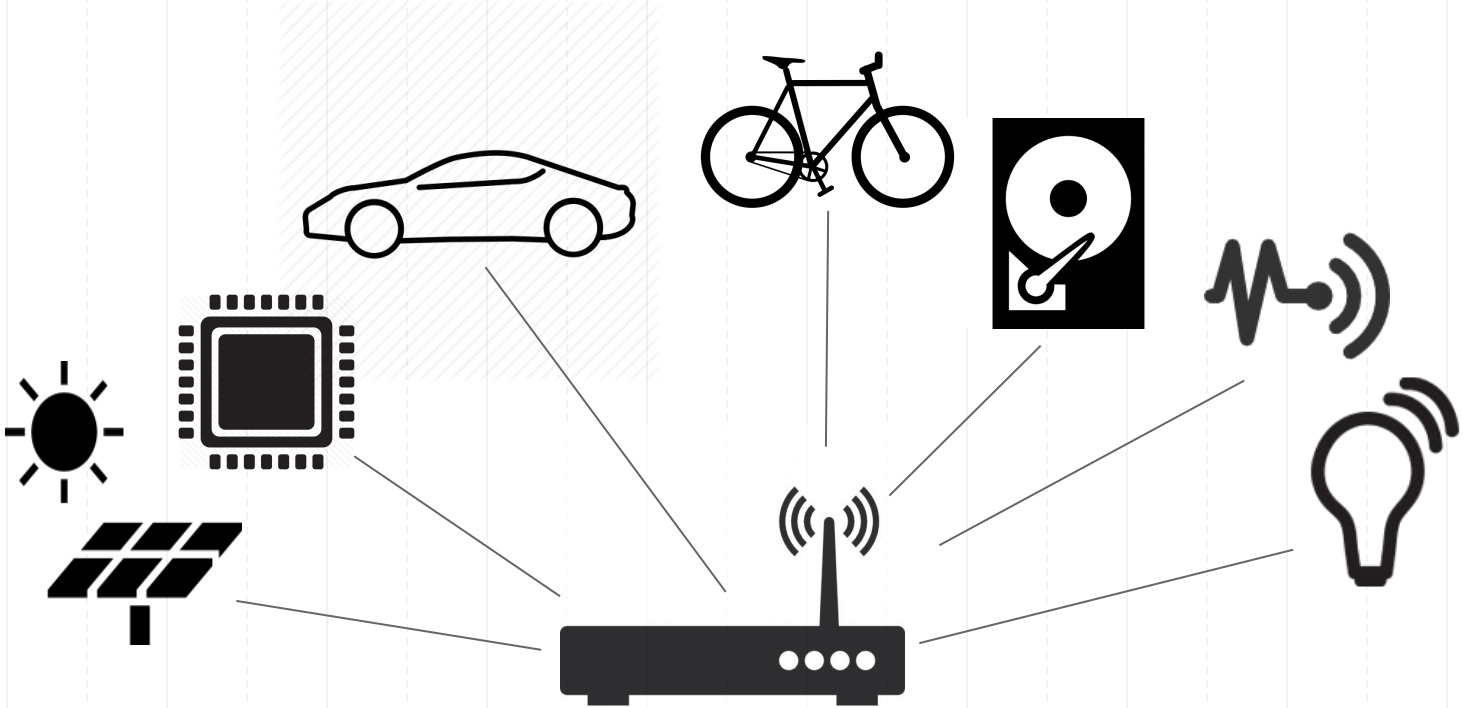
Dominik Schiener

Sergey Ivancheglo

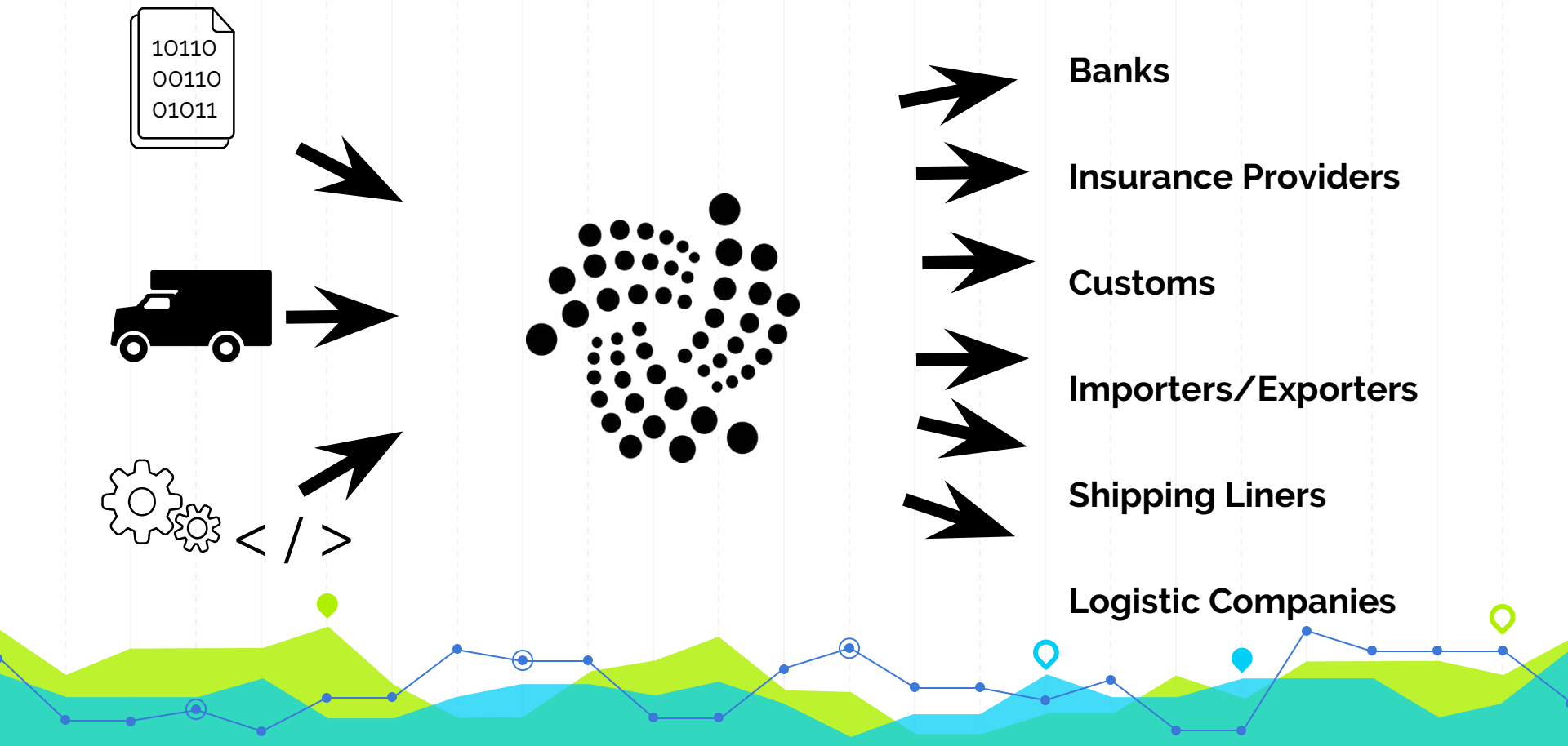
Serguei Popov

# USE CASES

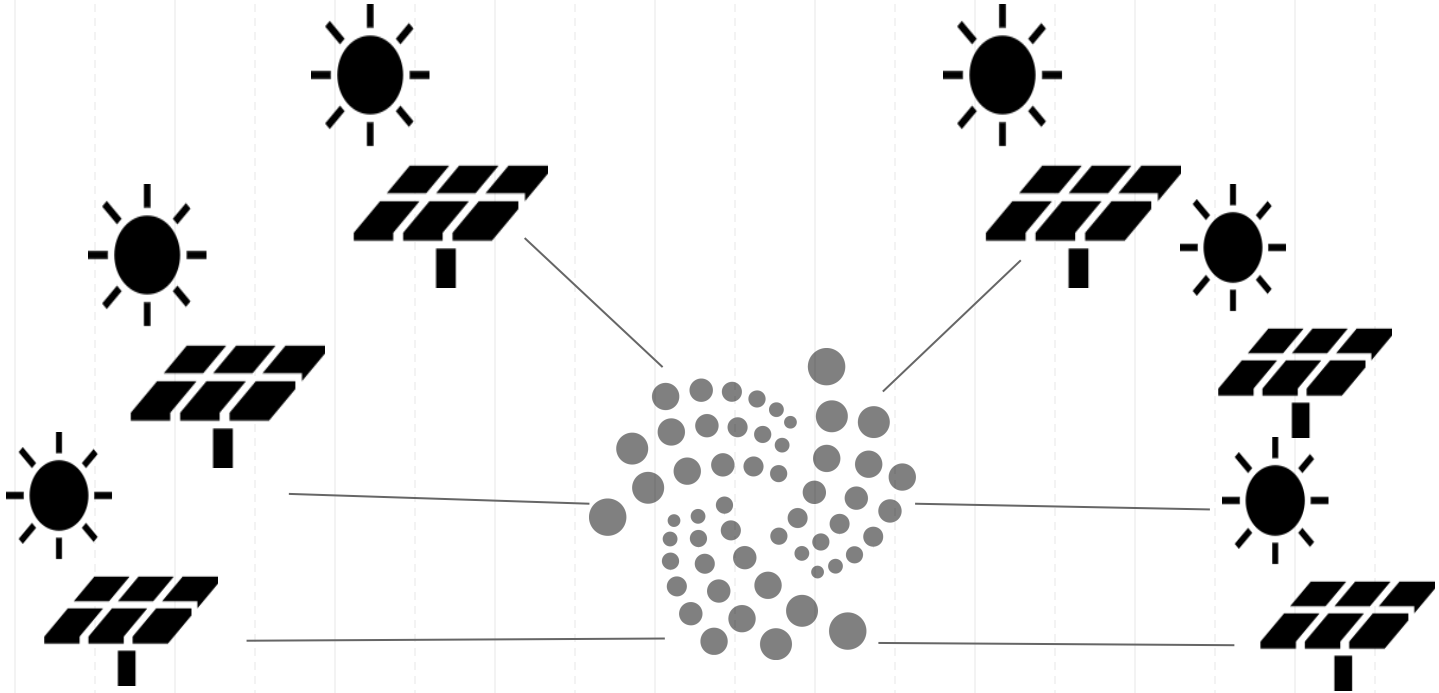
# Bandwidth on demand



# Supply Chain Visibility



# Smart-Grid



# Other Use Cases

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

# QUESTIONS?

**Email Us:**

contact@iotatoken.com

**Twitter:**

@iotatoken