

IOTA Community Logo

IOTA

The distributed communication layer of tomorrow

DISCLAIMER:
NO FINANCIAL ADVICE WILL BE GIVEN IN THIS PRESENTATION



Index

What today is about

- whoami/whoarewe
- The Tangle
- IOTA
- The IOTA Foundation
- Use Cases

Index

What today is about

Sponsored by

SPACE FOR SPONSOR LOGOS

- whoami/whoarewe
- The Tangle
- IOTA
- The IOTA Foundation
- Use Cases

whoami/whoarewe

Name Surname

Your Title - yourwebsite.com

Following distributed ledger technology since 2011

Love Free and Open Source Software

- Project with local company
-
-
-



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whoami/whoarewe

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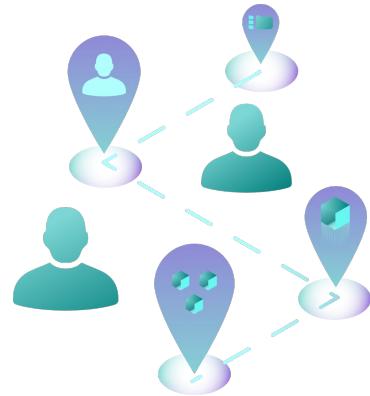
- Project with local company
-
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Technology



Governance



Ecosystem

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What is a Distributed Ledger Technology?

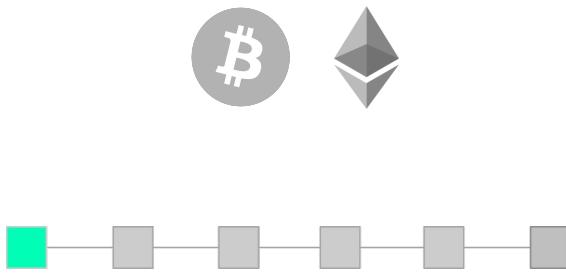
Database of append only information

Peer to Peer Network

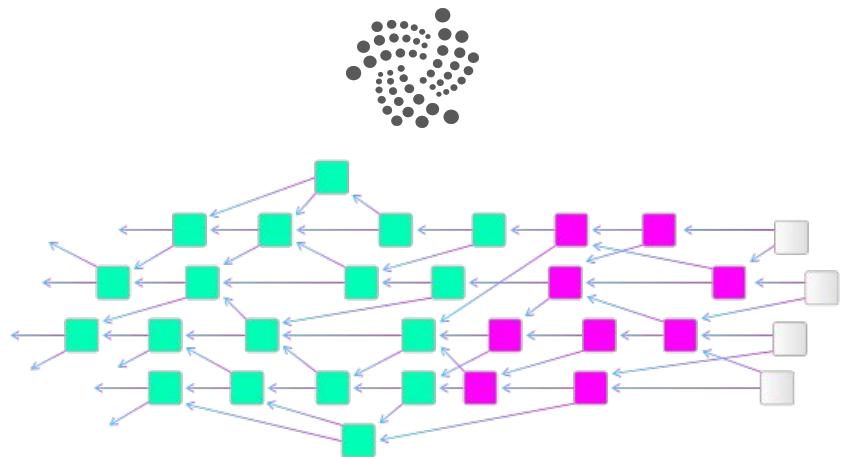
Each participant processes & verifies

Network reaches consensus

Blockchain vs. Tangle



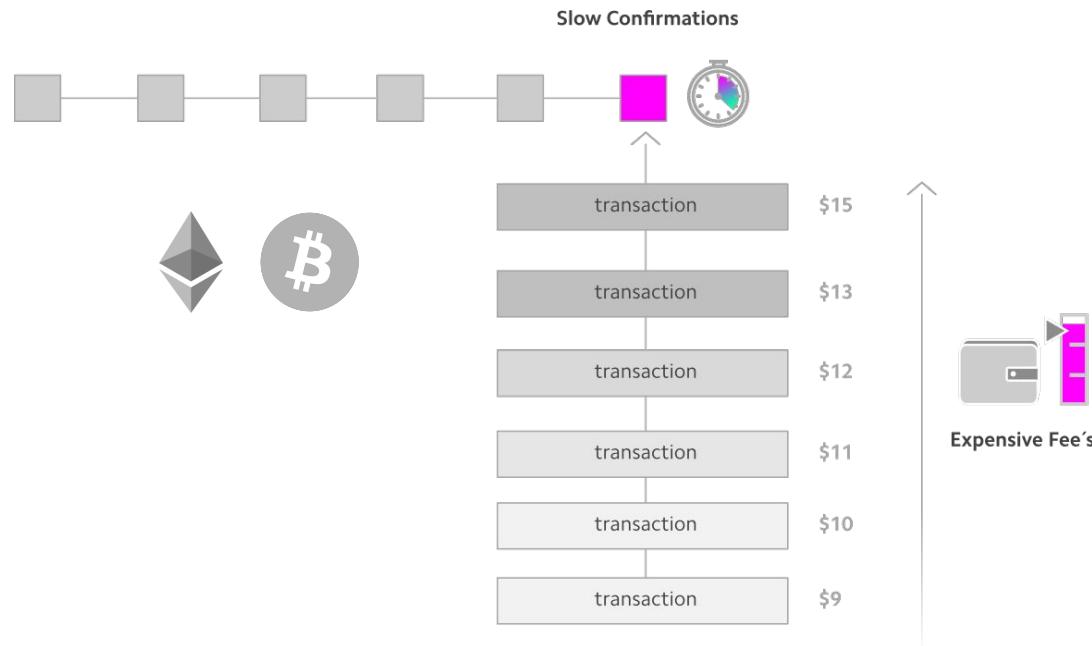
Blockchain



Tangle
(DAG / Directed Acyclic Graph)

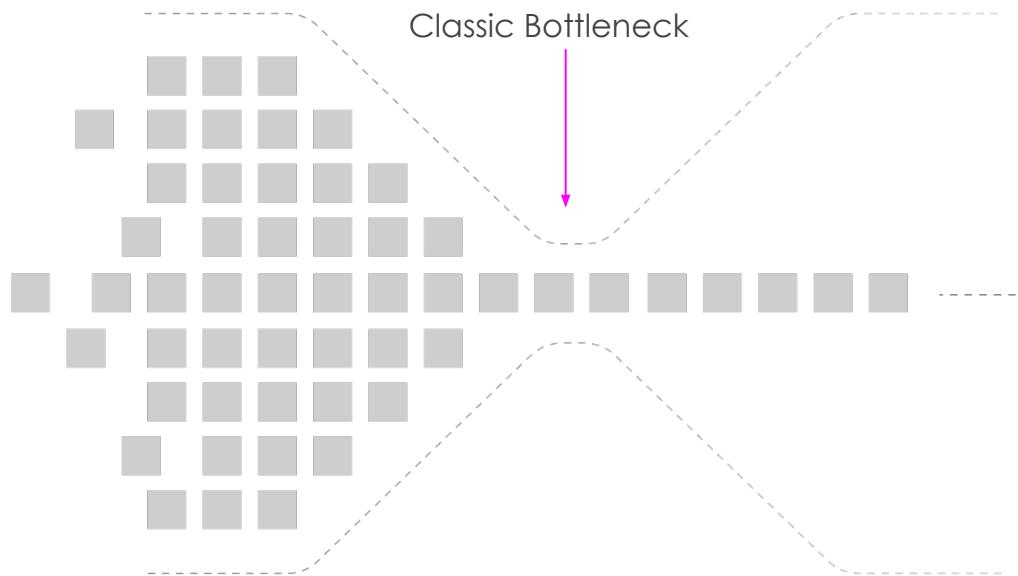
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The Blockchain Bottleneck



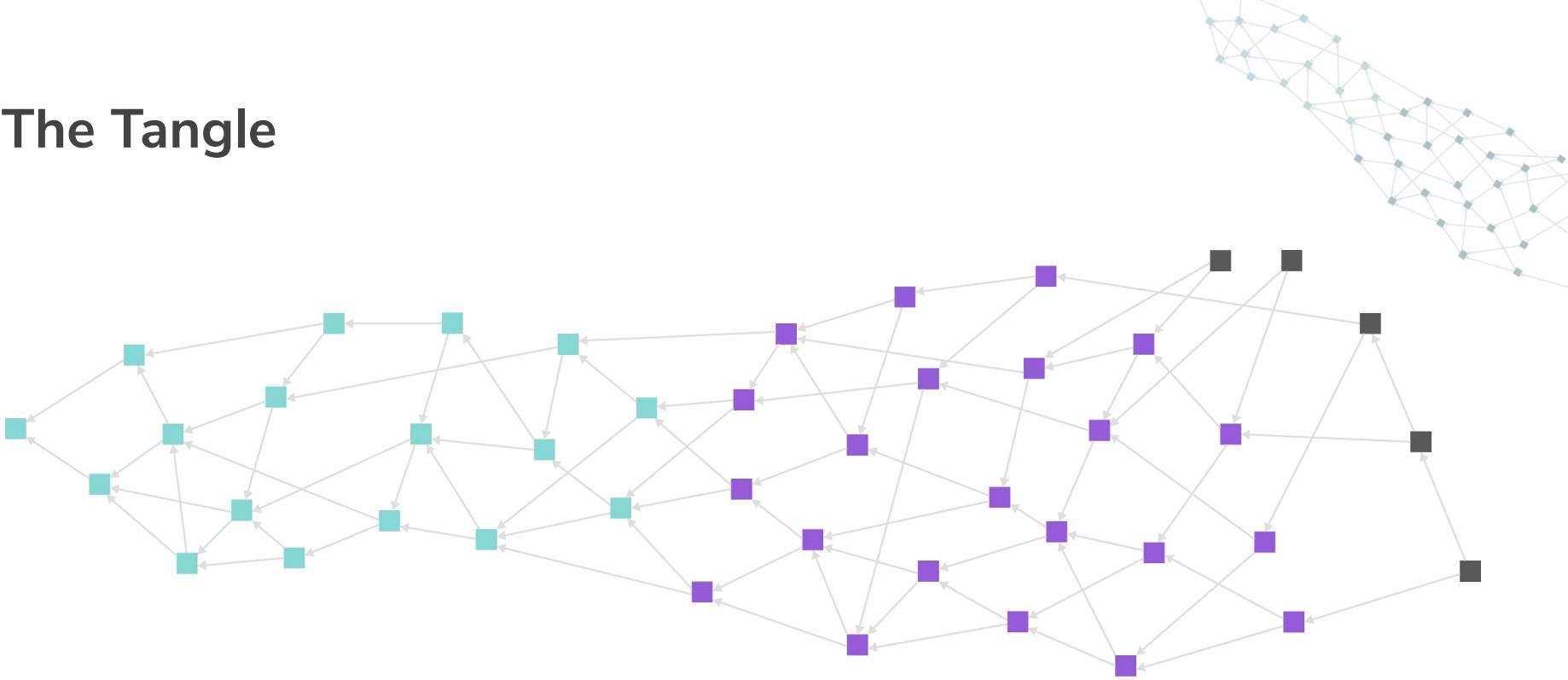
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The Blockchain Bottleneck



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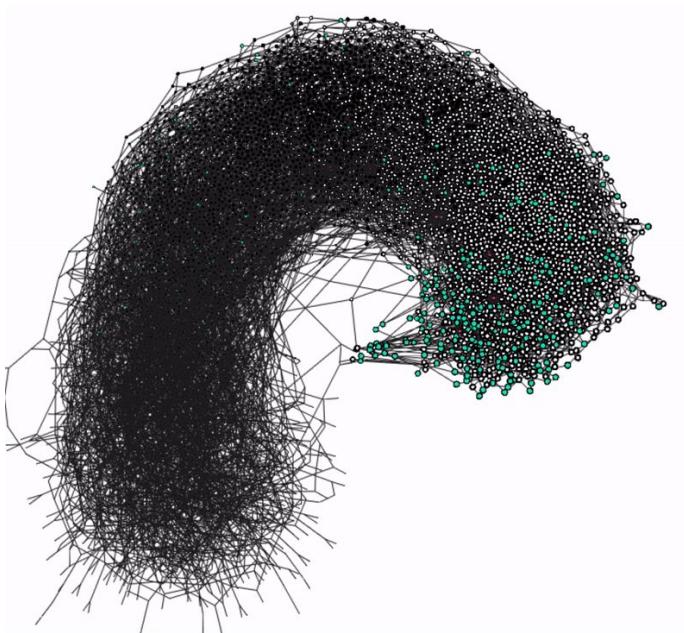
The Tangle



The Tangle is the immutable data structure that contains a history of IOTA transactions.

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The Tangle



The unique data structure being utilized in IOTA



Directed Acyclic Graph (DAG)

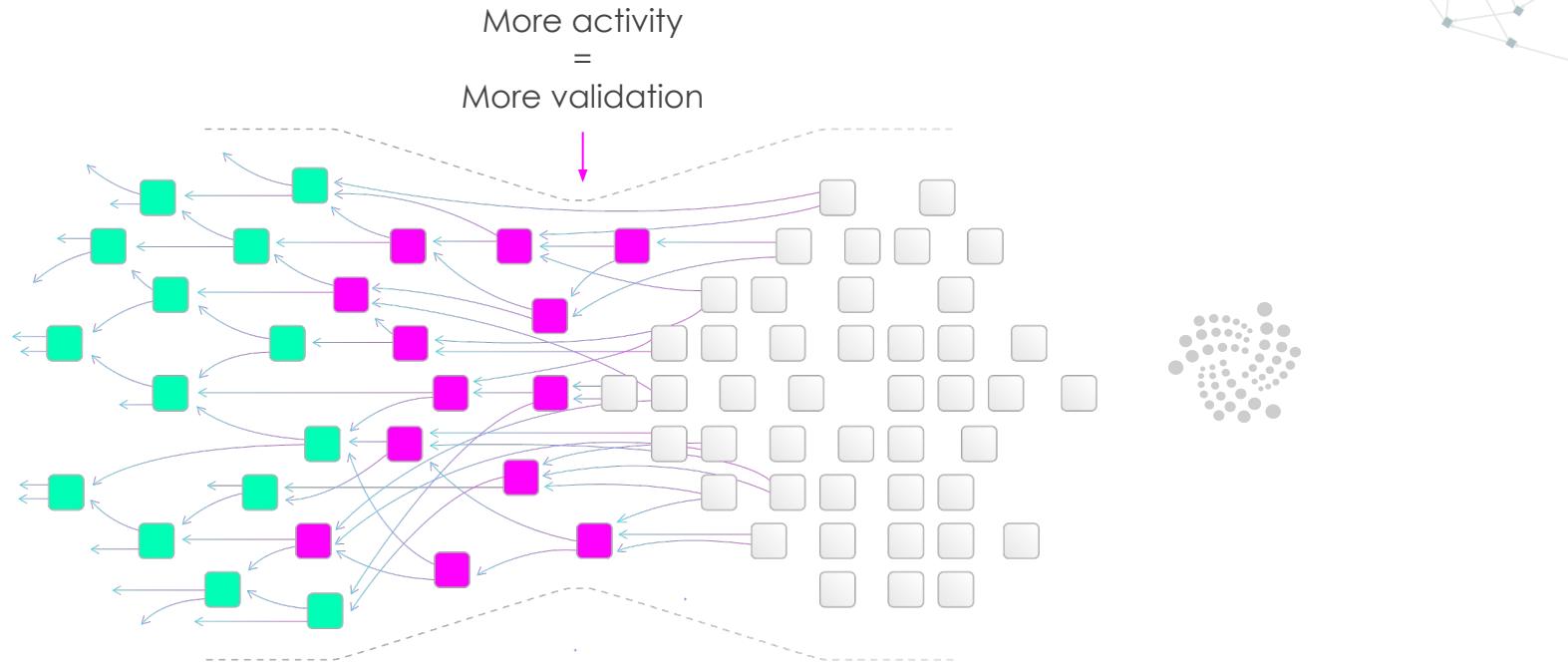
Scalable distributed framework for transactions

Transactions can hold data, value or both

Consensus

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Tangle scales!



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Tangle feeless!



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The IOTA Tangle - Ternary

binary

A	not A
0	1
1	0

ternary

A	not A
-1	+1
0	0
+1	-1



Why Ternary?

- Ternary is faster, more energy efficient and it also takes up less space
- Ternary is very important for AI and Neural Networks
- The ternary cryptographic environment can offer the following protections:
 - Malware
 - Breaches in access control will be reduced with the ternary PKD with the one-time public/private key pair
 - Eavesdropping problems will be greatly reduced because all aspects of the ternary architecture can change constantly

-9	-8	-7	-6	-5	-4	-3	-2	-1	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
-1001	-1000	-0111	-0110	-0101	-0100	-0011	-0010	-0001	+0000	+0001	+0010	+0011	+0100	+0101	+0110	+0111	+1000	+1001
-00	-0+	-+-	-+0	-++	0--	0-0	0-+	00-	000	00+	0+-	0+0	0++	+-+	+-0	+-+	+0-	+00

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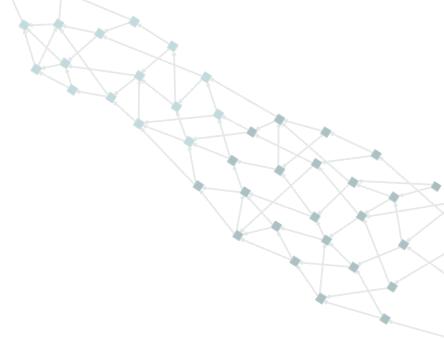
Introduction to the IOTA protocol



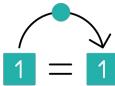
IOTA is a distributed ledger technology that allows devices to transfer immutable data and value among each other

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Introduction to the IOTA protocol



Highly
scalable



Zero-fee
transactions



Immutable
data transfer

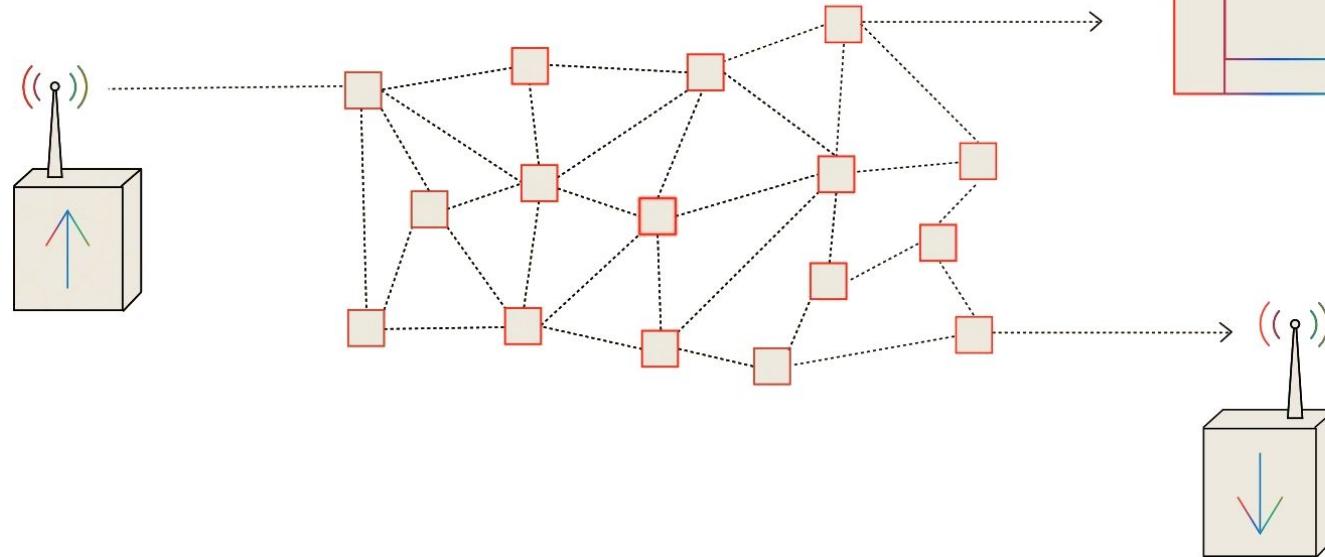


Quantum
robust

Overcoming
the limitations of
Blockchain

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Masked Authenticated Messaging (MAM)



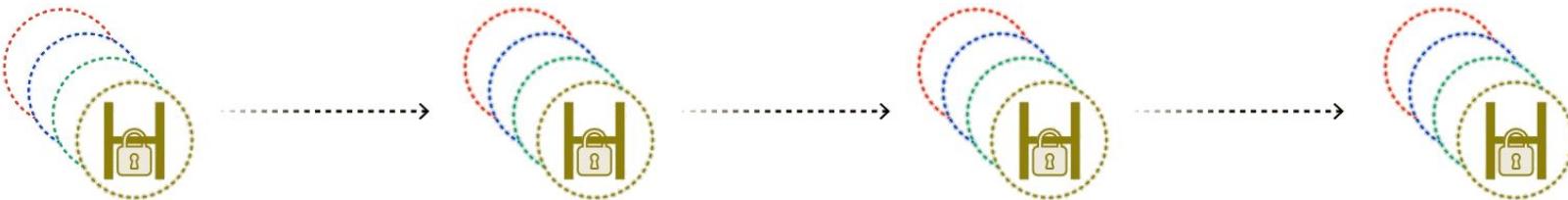
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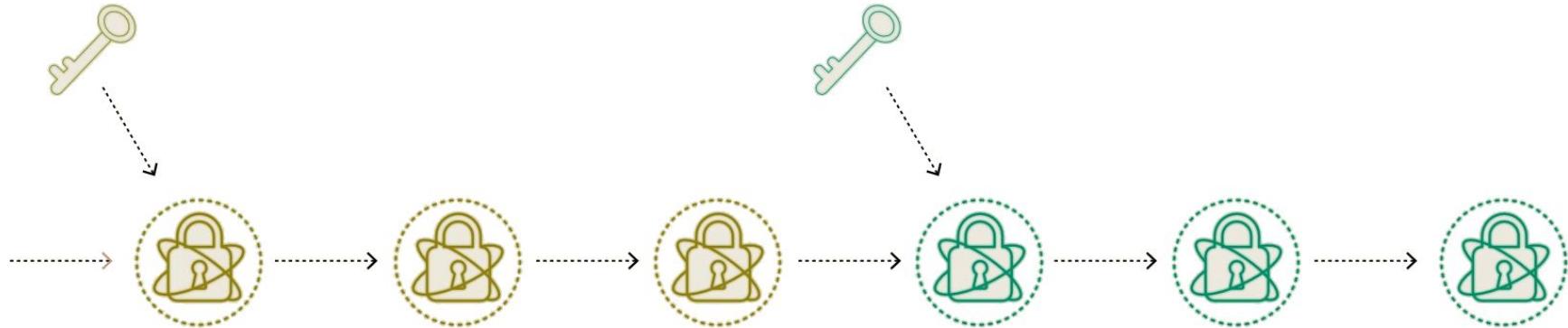
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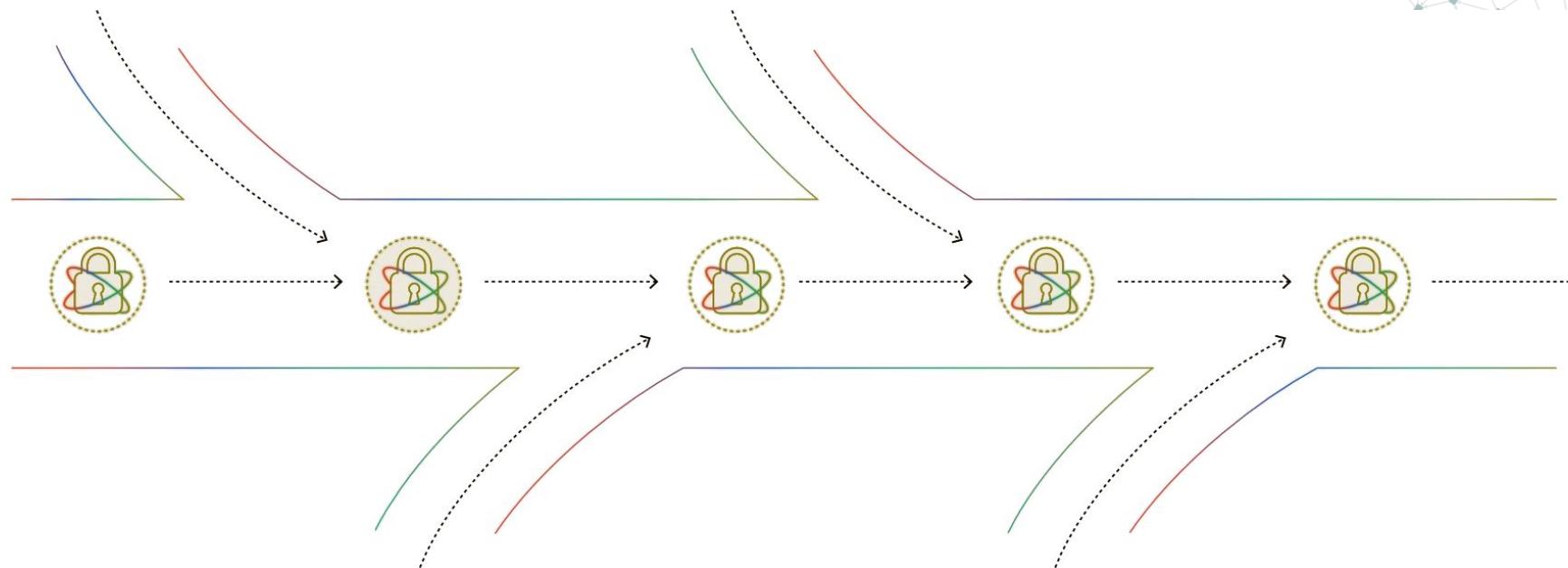
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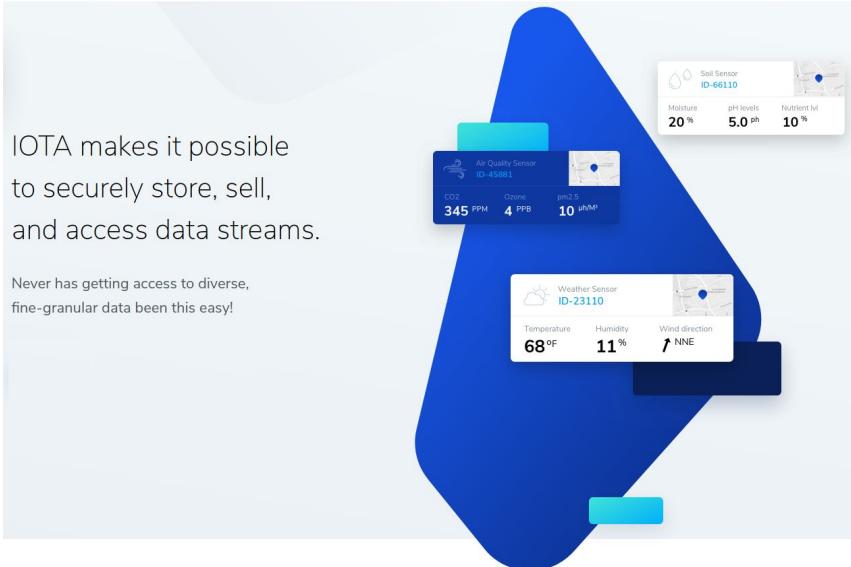
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Masked Authenticated Messaging (MAM)



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Decentralized Marketplace



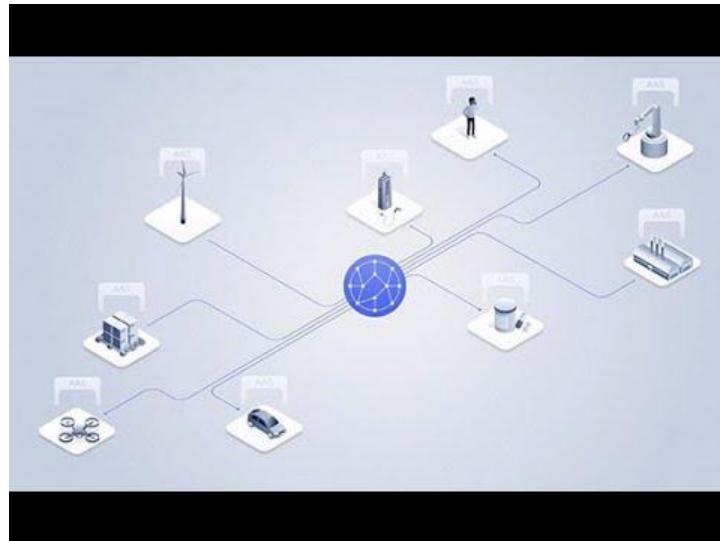
Available as open source blueprint

Uses MAM channels to open up silos

Allow users to pay owners for their data through microtransactions

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Decentralized Marketplace



https://youtu.be/Jnh_9nKkemM

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Decentralized Marketplace

First Autonomous
and Decentralized

Industry Marketplace

Discover how the Industry Marketplace acts as an integrated hub to enable the Industry 4.0 vision.



industry.iota.org



Vendor Neutral

Machine Interaction

Semantic Language

Decentralized

Integrated ID

Integrated payment

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Use-Cases



Telecom

- Payments
- Settlement
- Data Sharing
- Data Integrity
- Identity Management



Mobility

- Smart Charging
- Over-the-Air Updates
- Car ID & Wallet
- Cars as Autonomous Economic Agents
- Usage Based Insurance
- Car Paying for Parking



Digital Economy

- M2M Economy
- MyData & GDPR
- Biometric Authentication & Digital ID
- IOTA Data Marketplace
- Smart Factory
- Digital Twin



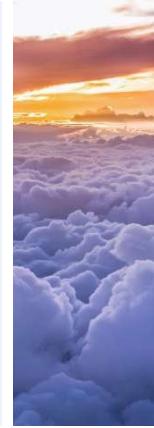
Smart City

- Digital ID
- Smart Energy Districts
- P2P Energy Grid
- Cross vertical
- Biometric Identification
- CityxChange Smart Cities



Supply Chain

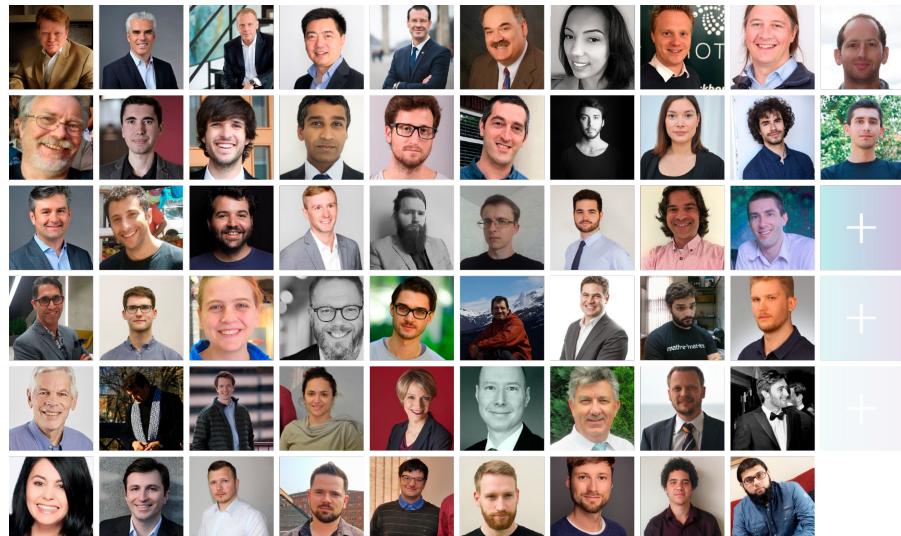
- Asset Tracking
- Connected Supply Chains
- Global Trade Document Flow
- Product Authenticity and Provenance
- Ports Management
- New Insurance Models



Social Impact

- Digital ID & Citizen Services
- Humanitarian ID
- Real-time Environmental Monitoring
- Financial Inclusion

The IOTA Foundation



**The IOTA Foundation - to
research, develop and grow
market adoption of DLT**

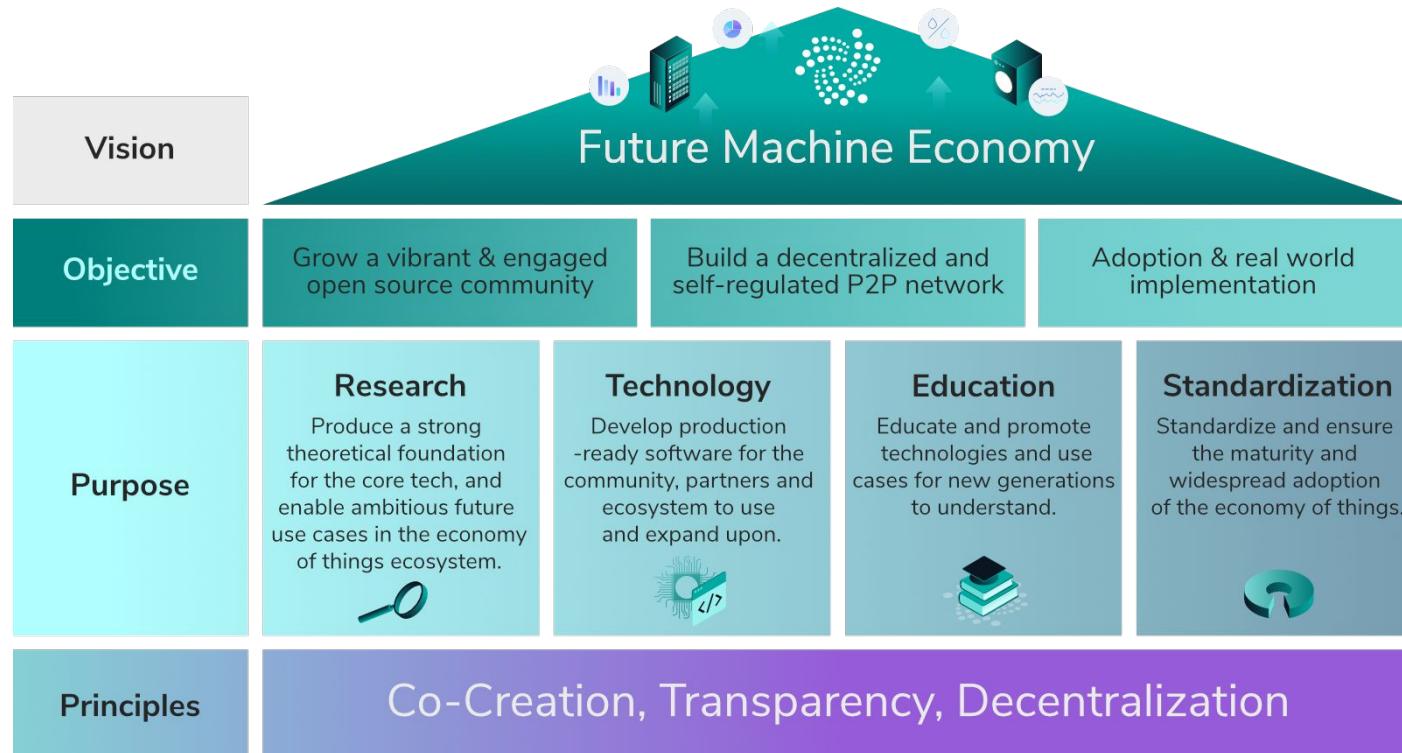
Non-profit Foundation based and regulated in
Berlin, Germany

Growth from 6 to 100+ full time employees
distributed across 27 countries

Focused on technical and regulatory
challenges of crypto-currencies & DLT

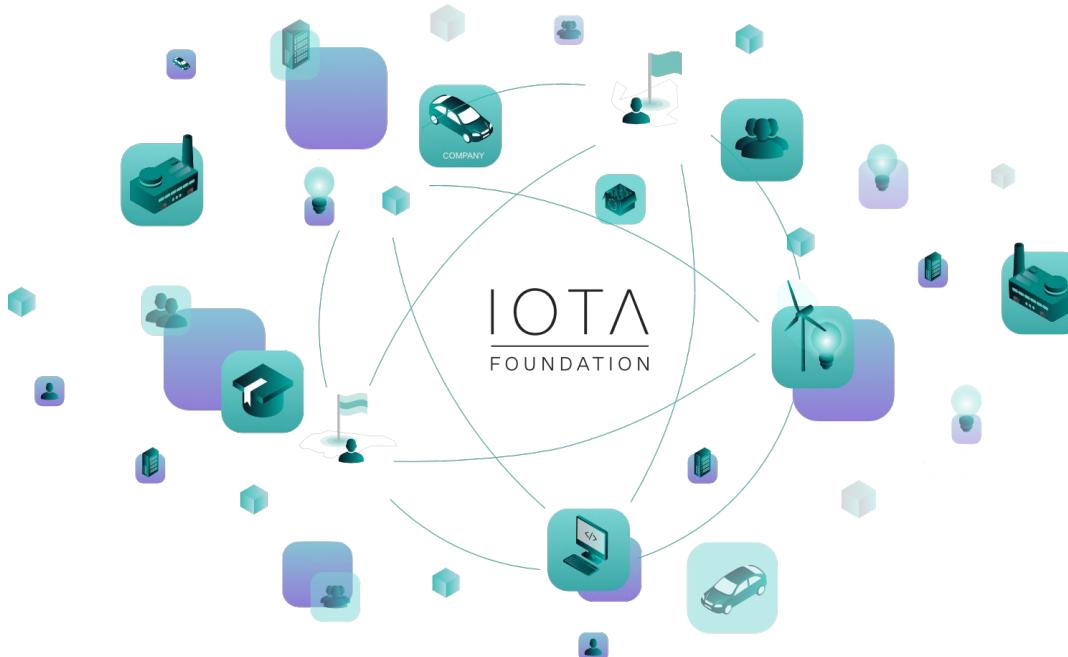
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IOTA Foundation - Vision & Goals



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IOTA Ecosystem



Our universe relies on a network of many collaborators
– corporates, academics, governments, NGOs

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IOTA Ecosystem



Meet the IOTA Ecosystem

Tutorials

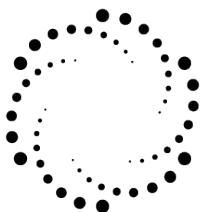
Projects

Events

Developers

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IOTA Ecosystem Development Fund



IOTA Ecosystem
Development **Fund**

Funding for projects in the IOTA
Ecosystem

Proof of concepts

Open source utilities and libraries

Educational resources

Media

Philanthropic endeavors

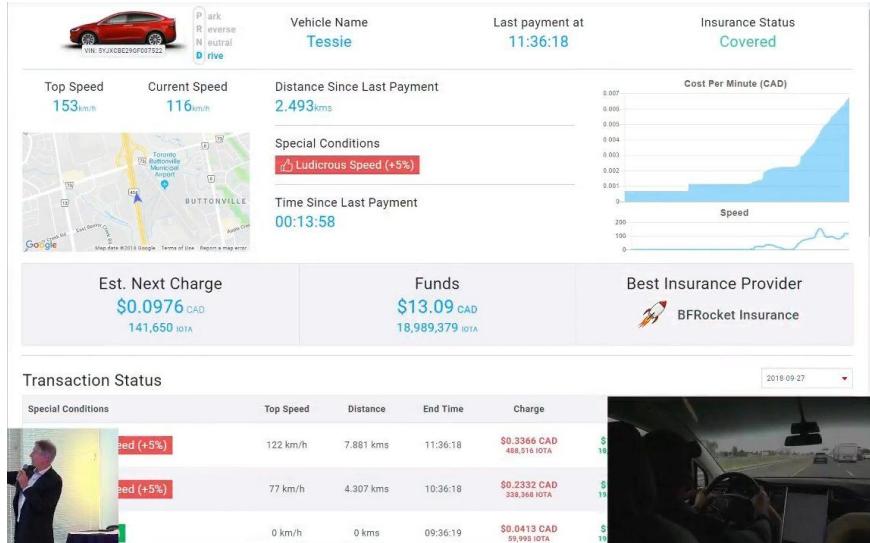
Hackathons

Ideation workshops

Meetups

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Mobility & Automotive - PoC by bIOTAsphere



Insuremycar PoC

- Dynamic insurance provider
- Direct payments
- Vehicle monitoring



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IIoT/IoT - Bosch XDK



Bosch XDK110 and
Masked Authentication Messaging



Fast and easy IOTA integration for prototypes

- Secure and immutable sensor data transmission via IOTA
- Micropayments on the (Industrial) Data Marketplace

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Contacts:

email@provider.com

website.com

twitter.com/myhandle

linkedin.com/in/mylink

Sponsors:

<SPONSOR NAME>

<Description>

sponsor.website.com

Get involved:

Website: www.iota.org

Ecosystem: ecosystem.iota.org

Discord: discord.iota.org

Twitter: twitter.com/iotatoken

LinkedIn: linkedin.com/company/iotafoundation

YouTube: www.youtube.com/c/iotafoundation