

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
- IOTA Libraries
- The IOTA Foundation
- Use Cases

Index

What today is about

Sponsored by

SPACE FOR SPONSOR LOGOS

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

whoami/whoarewe

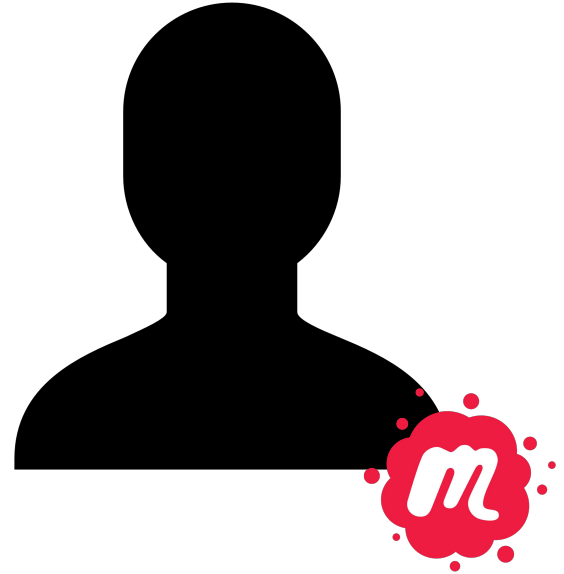
Name Surname

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

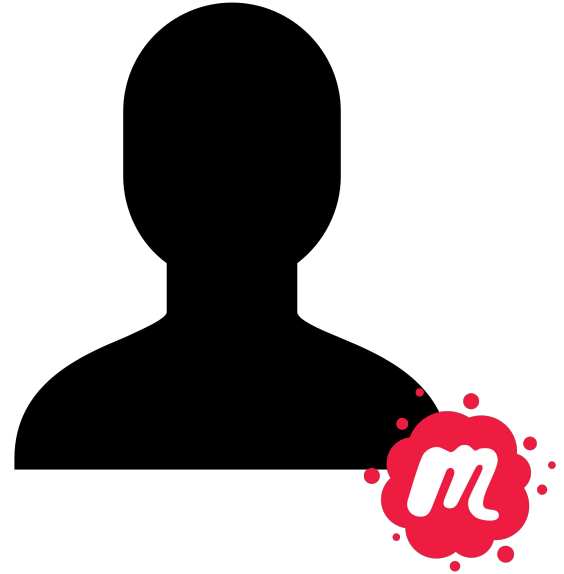
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whoami/whoarewe

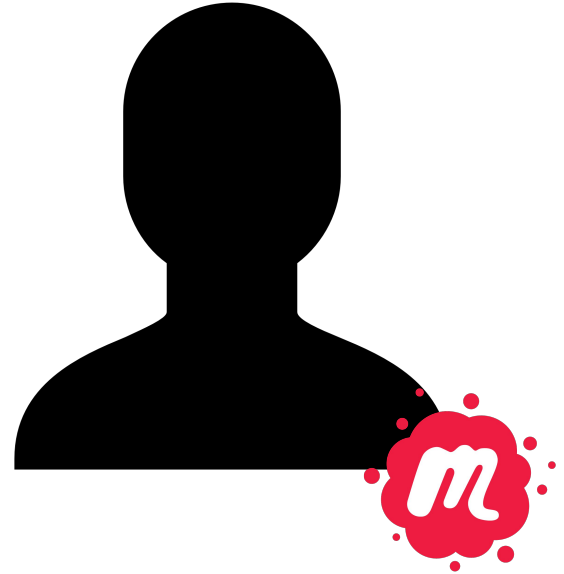
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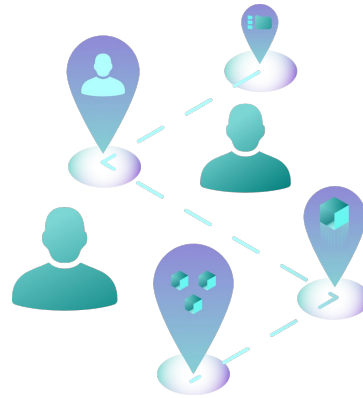
- Project with local company
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Technology



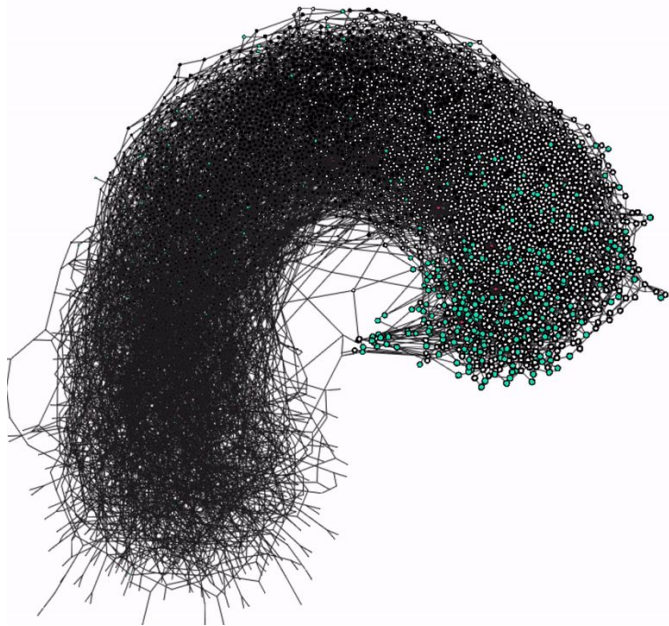
Governance



Ecosystem

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The Tangle



The unique data structure being utilized in IOTA

Directed Acyclic Graph (DAG)

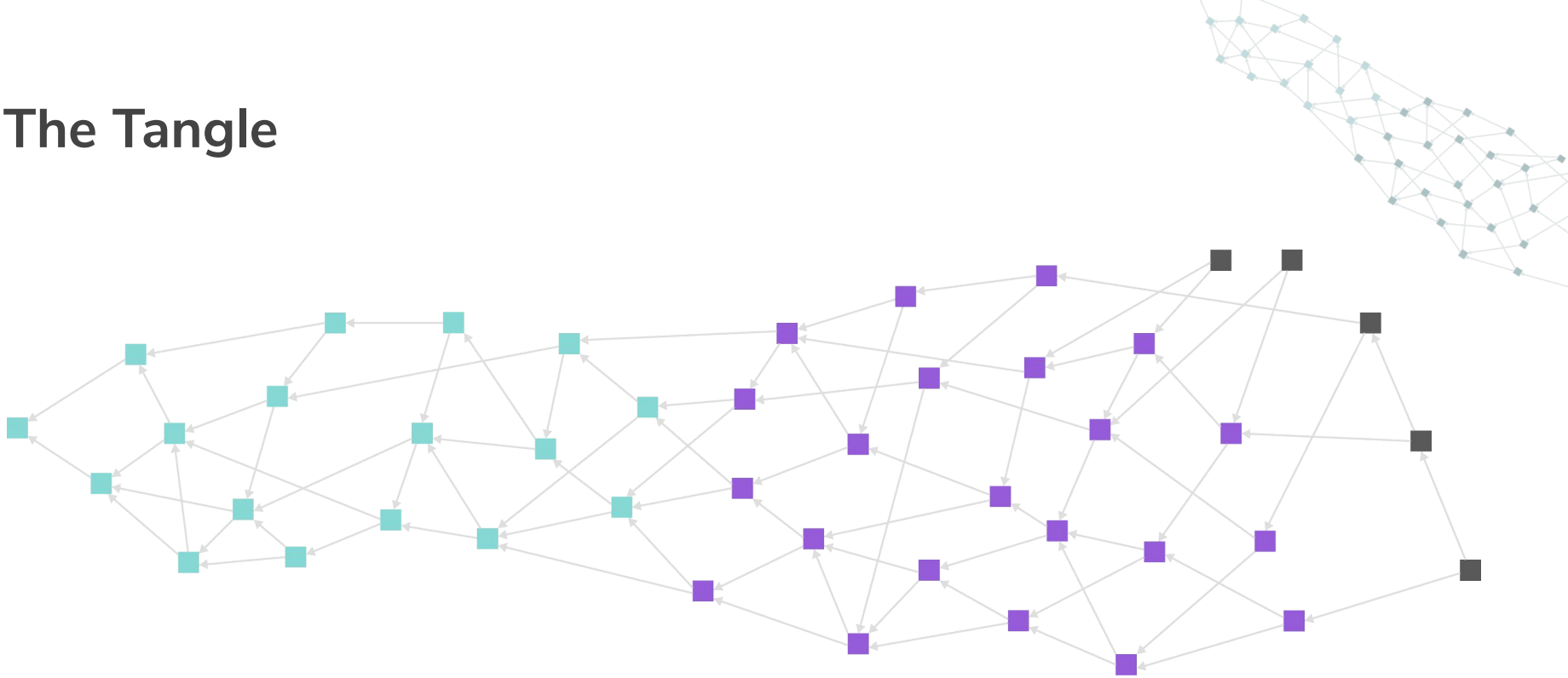
Scalable distributed framework for transactions

Transactions can hold data, value or both

Consensus

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The Tangle



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

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The IOTA Libraries



The IOTA client libraries abstract the complexity of the IOTA protocol into simple methods that allow you to create, send, receive, and request transactions.

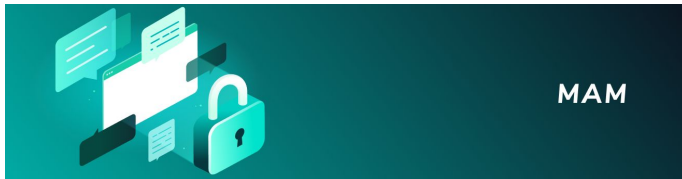
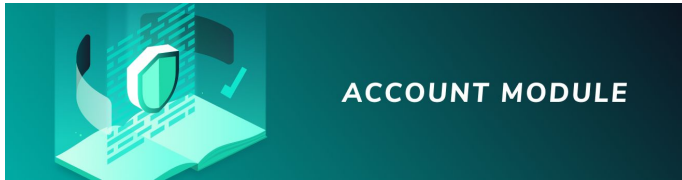
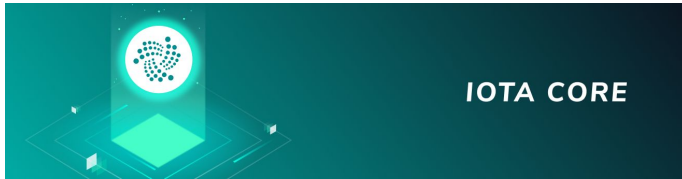
CAUTION

Beta software

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JavaScript client library

OFFICIAL SUPPORT



<https://github.com/iotaedger/iota.js>

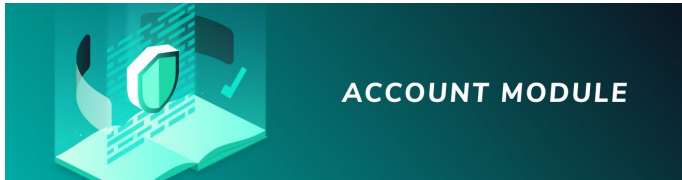
Node.js 10 or higher

Node.js 8

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Java client library

OFFICIAL SUPPORT



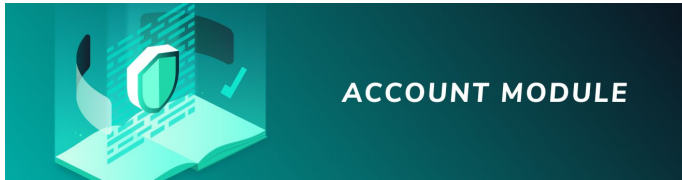
<https://github.com/iotaedger/iota-java>

Java 6 (or higher)

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Golang client library

OFFICIAL SUPPORT



<https://github.com/iotaedger/iota.go>

recommend use of vgo modules (since
Go 1.11)

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Python client library

OFFICIAL SUPPORT



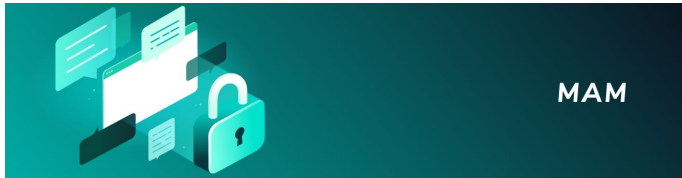
<https://github.com/iotaedger/iota.py>

PyOTA is compatible with Python
3.7, 3.6, 3.5 and 2.7

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C/C++ client library

OFFICIAL SUPPORT

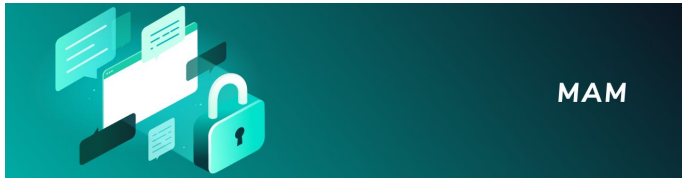


<https://github.com/iotaedger/entangled>

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C# client library

COMMUNITY SUPPORT



<https://github.com/iota-community/tangle-.net>

.NET 4.6.1

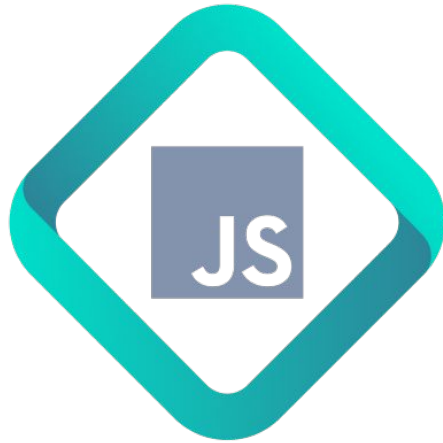
.NET Standard 2.0

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JavaScript Workshop



WORKSHOP
JAVASCRIPT

A decorative graphic in the top right corner consisting of a network of small blue dots connected by thin grey lines, forming a mesh-like structure.

Send and receive transactions
Check your balance
Generate new addresses
Send IOTA tokens
Send and receive multi-transaction messages
Monitor a real-time stream of incoming transactions, using ZeroMQ
Send and receive data using MAM0 streams.

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Golang Workshop



Send and receive transactions
Check your balance
Generate new addresses
Send IOTA tokens
Send and receive multi-transaction
messages
Utilize a real-time stream of
incoming transactions using
ZeroMQ

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C Workshop



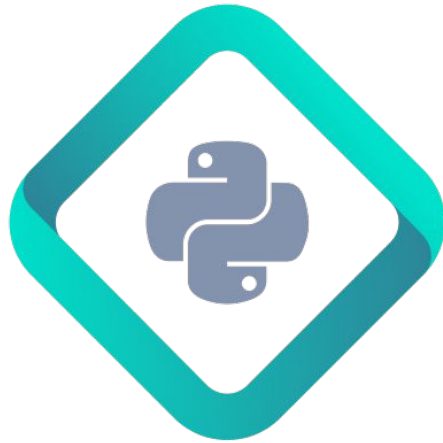
WORKSHOP

C


Send and receive transactions
Check your balance
Generate new addresses
Send IOTA tokens

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Python Workshop



WORKSHOP
PYTHON

A decorative network diagram in the top right corner, showing a series of interconnected nodes and lines forming a mesh-like structure.

Send and receive transactions
Check your balance
Generate new addresses
Send IOTA tokens
Send and receive multi-transaction messages
Utilize a real-time stream of incoming transactions using ZeroMQ

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<https://youtu.be/mZSG93W1u7A>

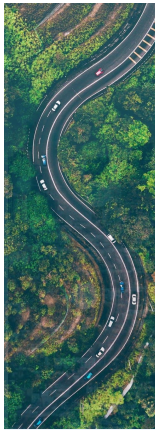
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Use-Cases



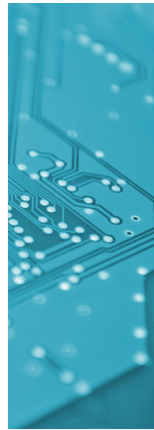
Telecom

- 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



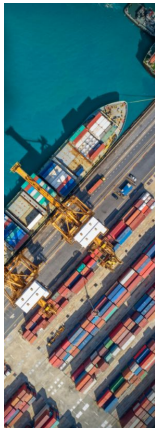
Digital Economy

- 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

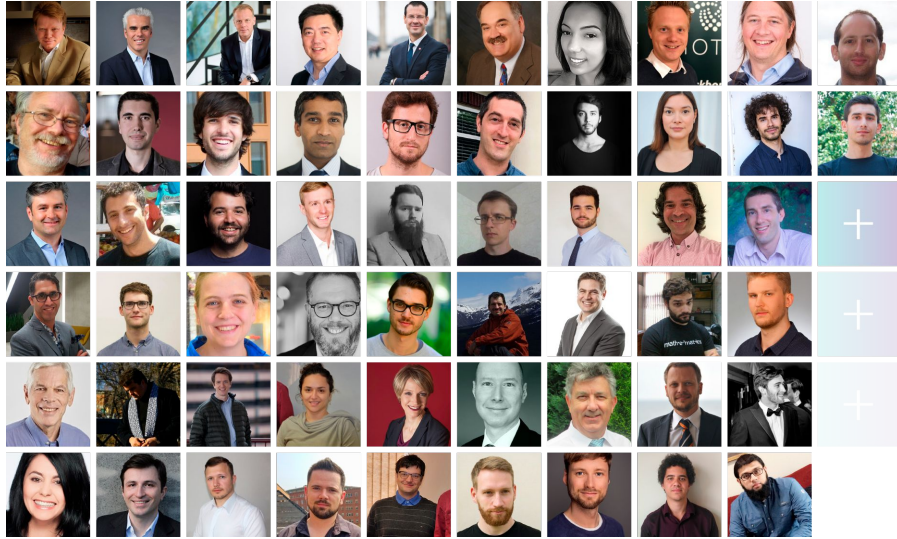
- Asset Tracking
- Connected Supply Chains
- Global Trade Document Flow
- Product Authenticity and Provenance
- Ports Management
- New Insurance Models



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**

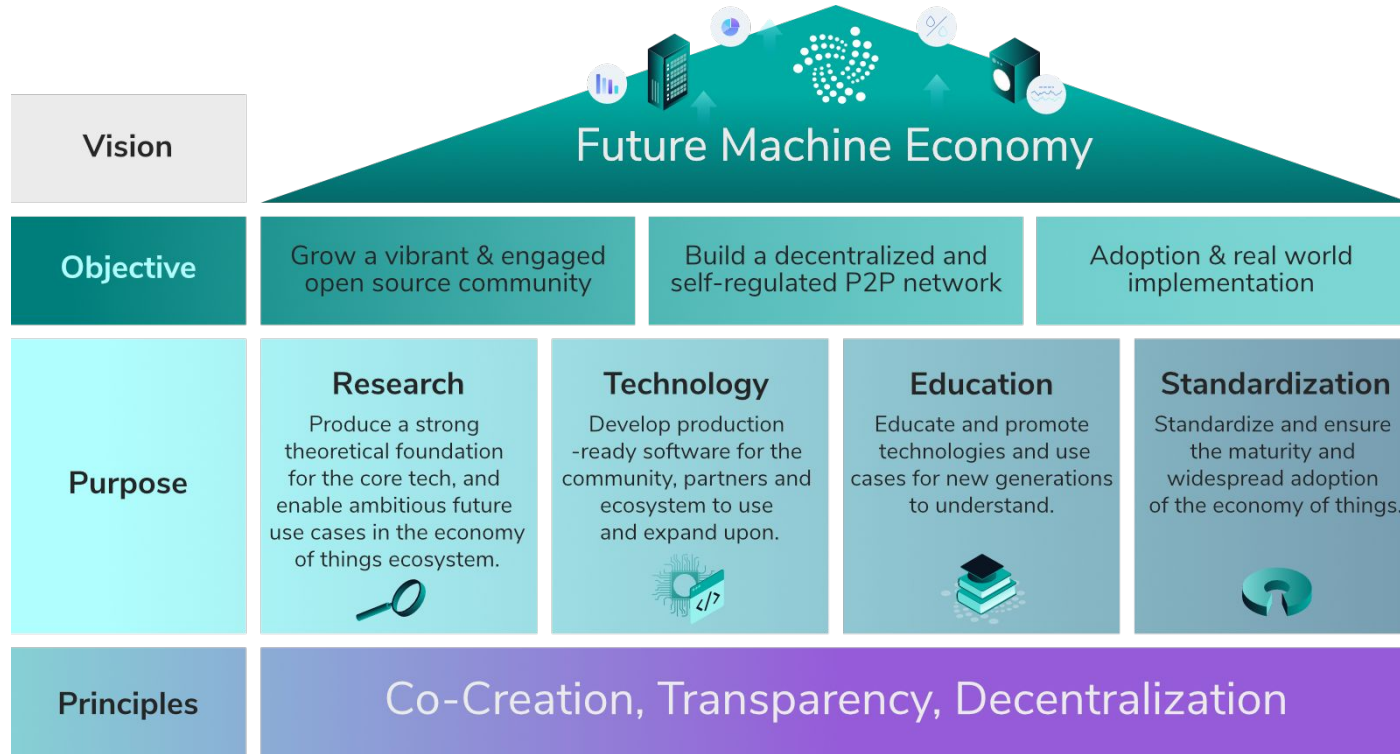
Non-profit Foundation based and regulated in
Berlin, Germany

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

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

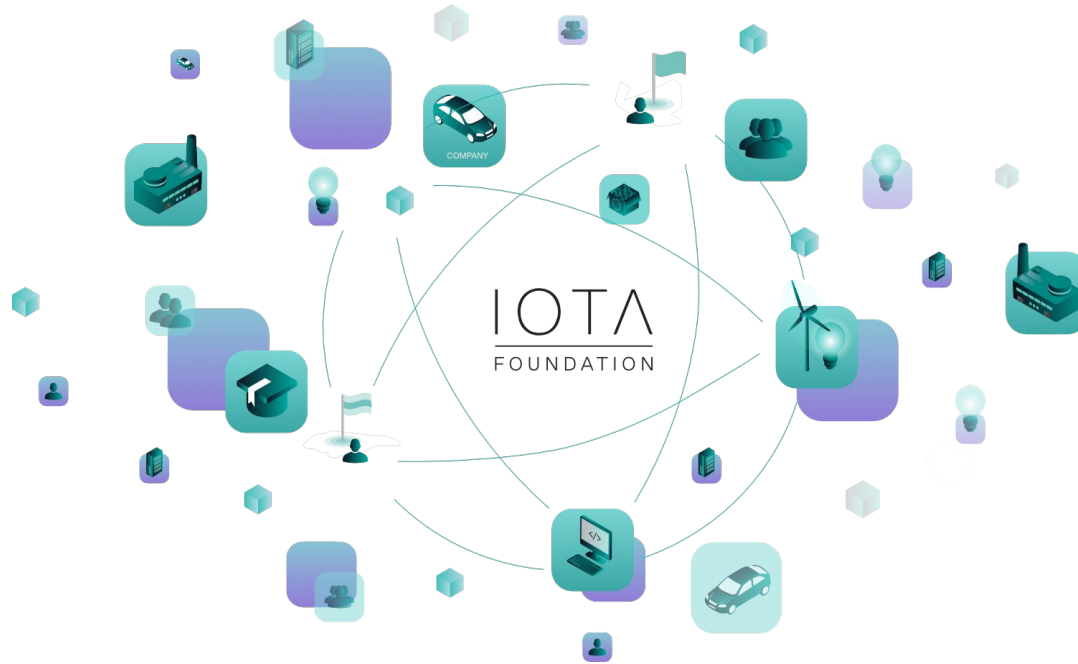
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IOTA Foundation - Vision & Goals



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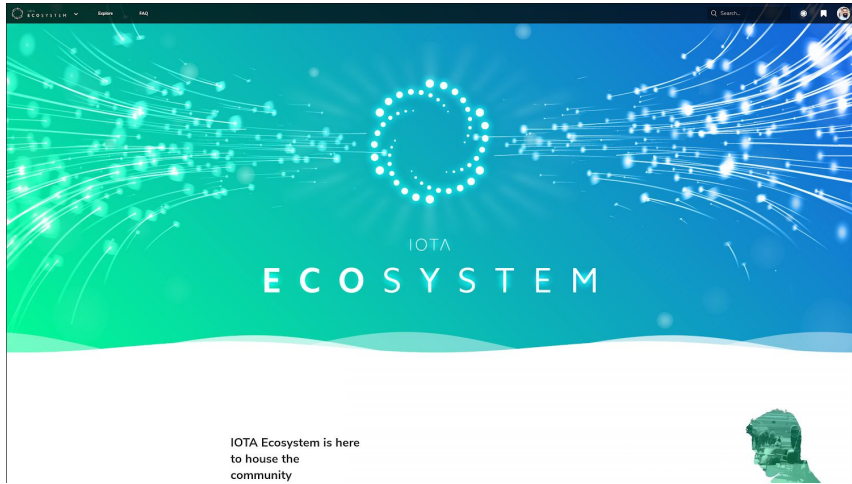
IOTA Ecosystem



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

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IOTA Ecosystem



Meet the IOTA Ecosystem

Tutorials

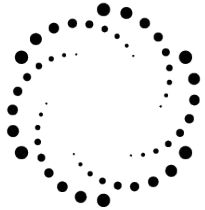
Projects

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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Coordicide Grant Program



<https://coordicide.iota.org/grants>

Research Grant

e.g.

Optimization of the networking layer to avoid network congestion

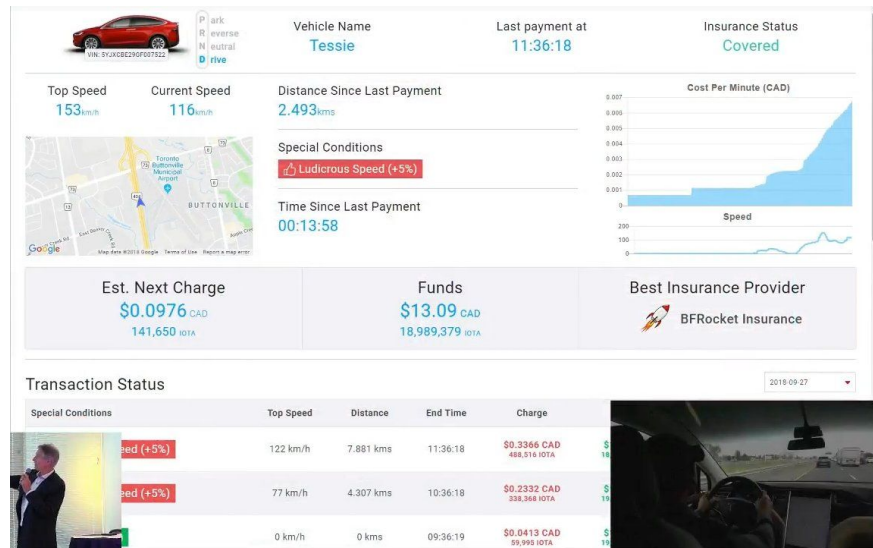
Reputation system based on node behavior

Theoretical behavior of cellular automata based consensus

Theoretical properties of query-based voting schemes (e.g., FPC)

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Mobility & Automotive - PoC by bIOTAsphere



Insuremycar PoC

- Dynamic insurance provider
- Direct payments
- Vehicle monitoring

CAUTION

Proof-of-Concept
NOT endorsed by Tesla

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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 data marketplaces

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Contacts:

email@provider.com

website.com

twitter.com/myhandle

linkedin.com/in/mylink

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

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