

# 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

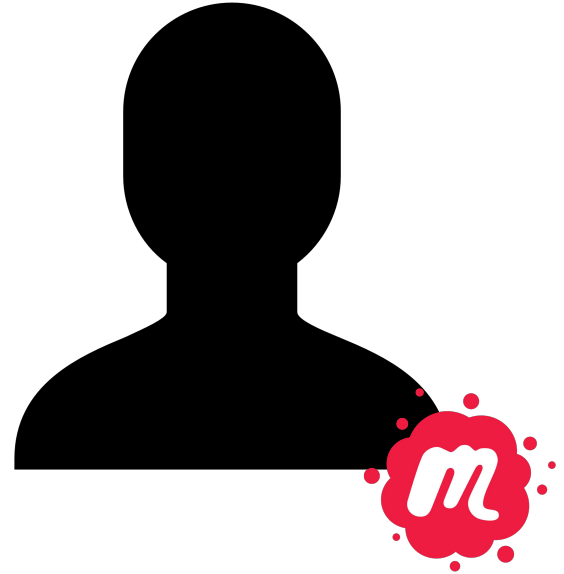
## Name Surname

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

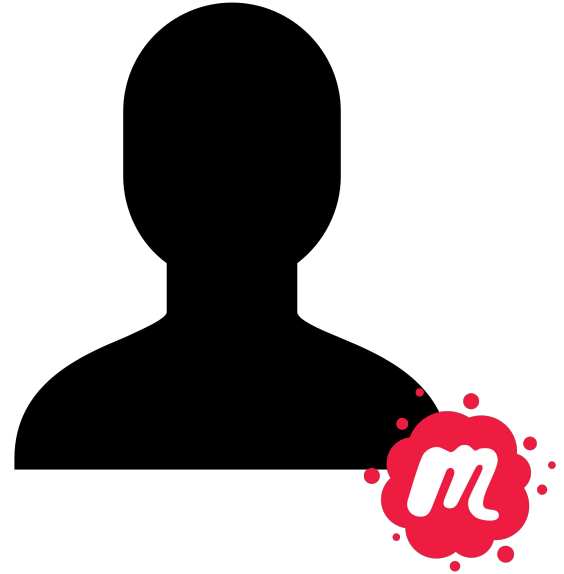
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# whoami/whoarewe

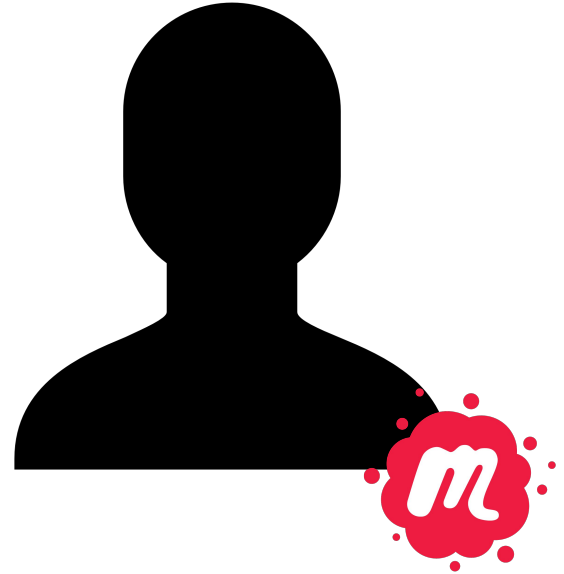
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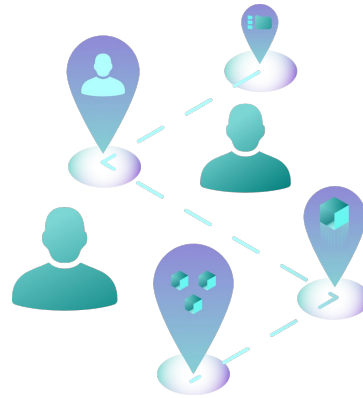
- Project with local company
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Technology



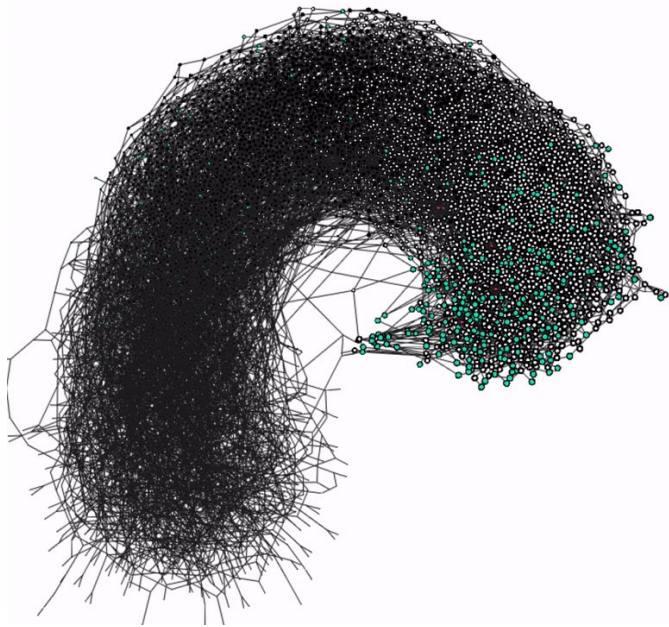
Governance



Ecosystem



# The Tangle



The unique data structure being utilized in IOTA

Directed Acyclic Graph (DAG)

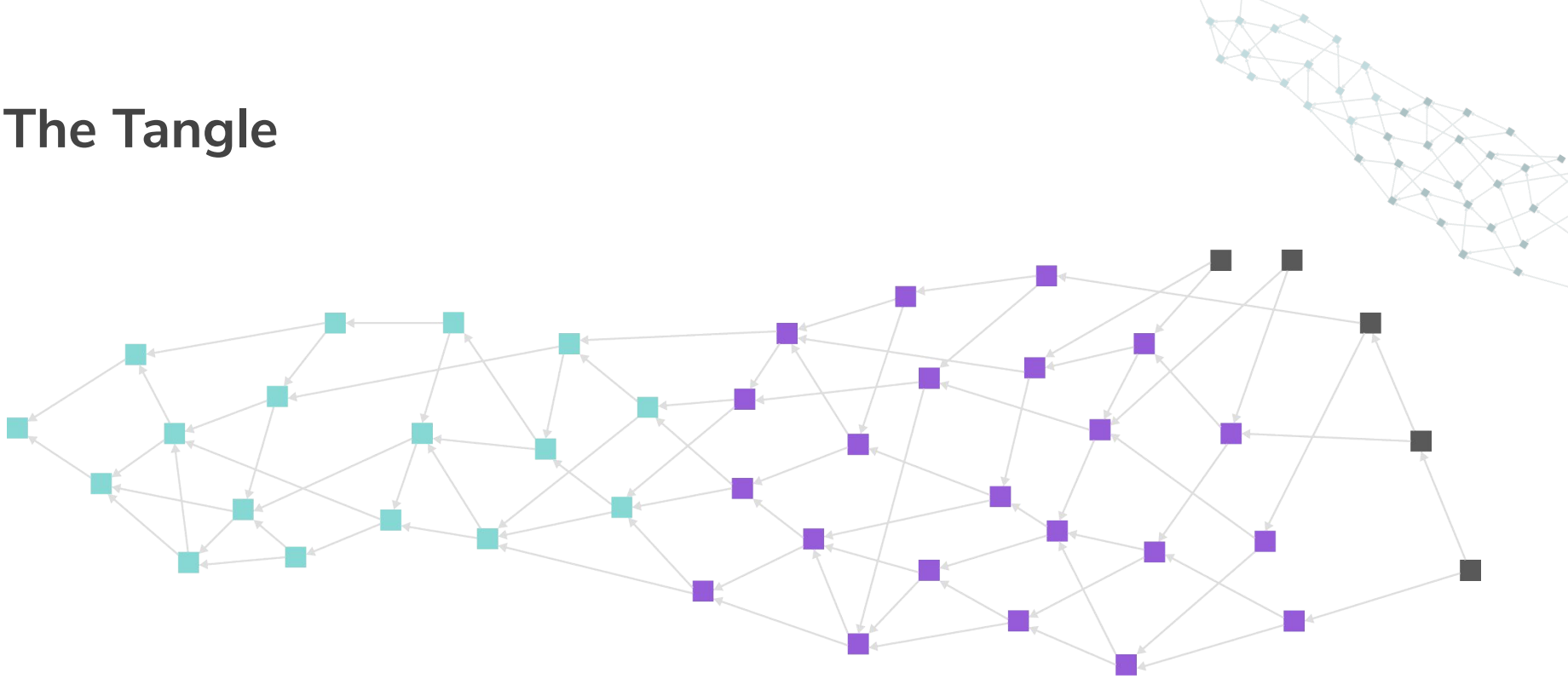
Scalable distributed framework for transactions

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



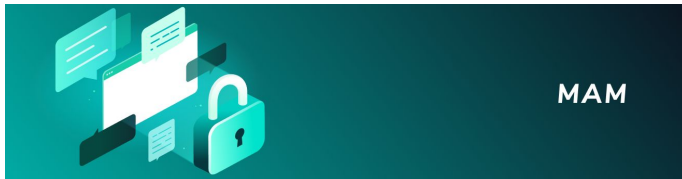
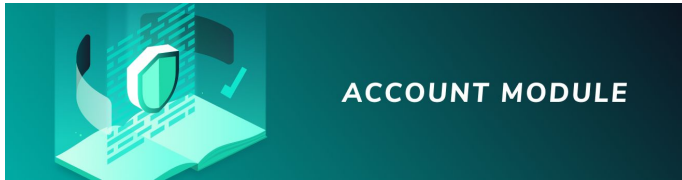
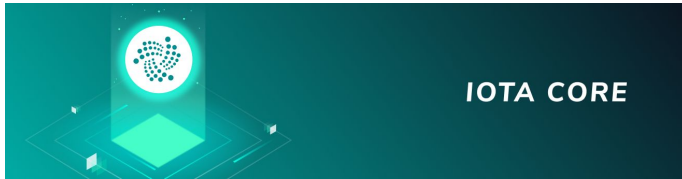
The IOTA client libraries abstract the complexity of the IOTA protocol into simple methods that allow you to create, send, receive, and request transactions.

**CAUTION**

Beta software

# JavaScript client library

OFFICIAL SUPPORT



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

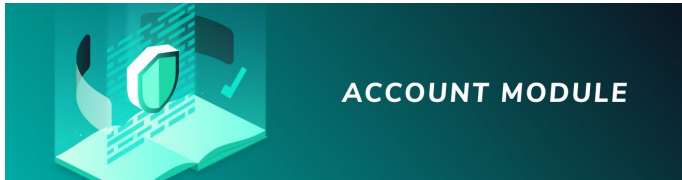
Node.js 10 or higher

Node.js 8

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# Java client library

OFFICIAL SUPPORT



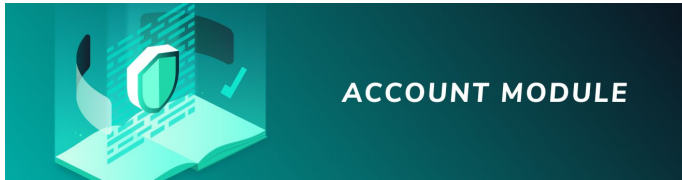
<https://github.com/iotaedger/iota-java>

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



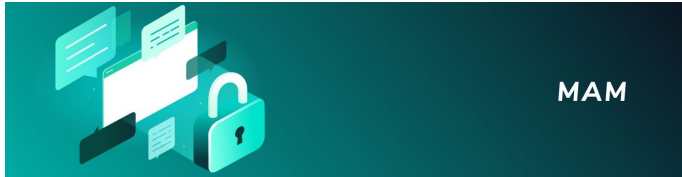
<https://github.com/iotaedger/iota.py>

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

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# C/C++ client library

OFFICIAL SUPPORT



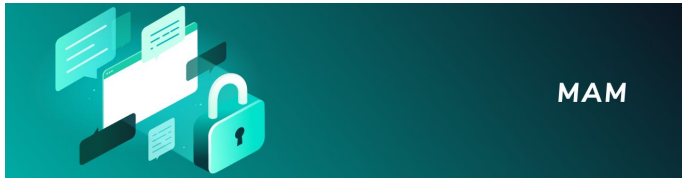
<https://github.com/iotaedger/entangled>

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# C# client library

COMMUNITY SUPPORT



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

.NET 4.6.1

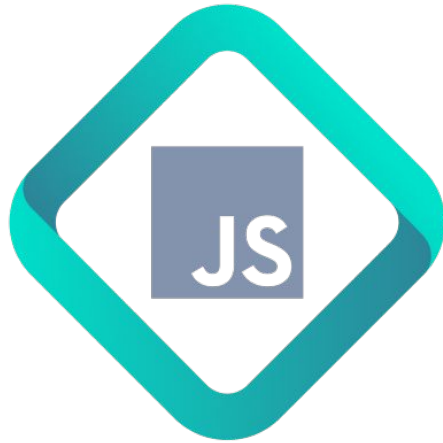
.NET Standard 2.0

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# JavaScript Workshop



WORKSHOP  
**JAVASCRIPT**

A decorative network diagram in the top right corner, showing a series of interconnected nodes and lines, resembling a mesh or a neural network 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



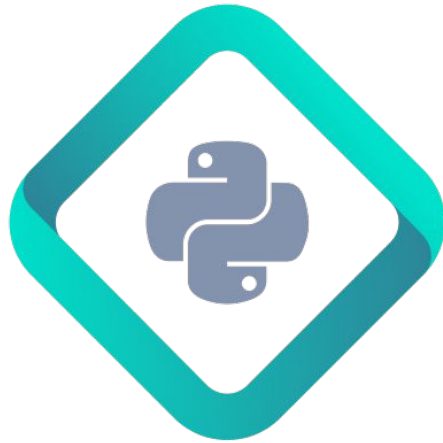
WORKSHOP

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>

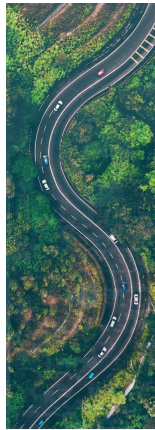
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# Use-Cases



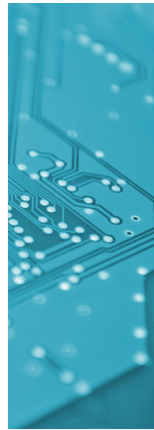
## Telecom

- 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



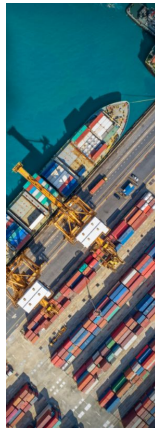
## Digital Economy

- 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

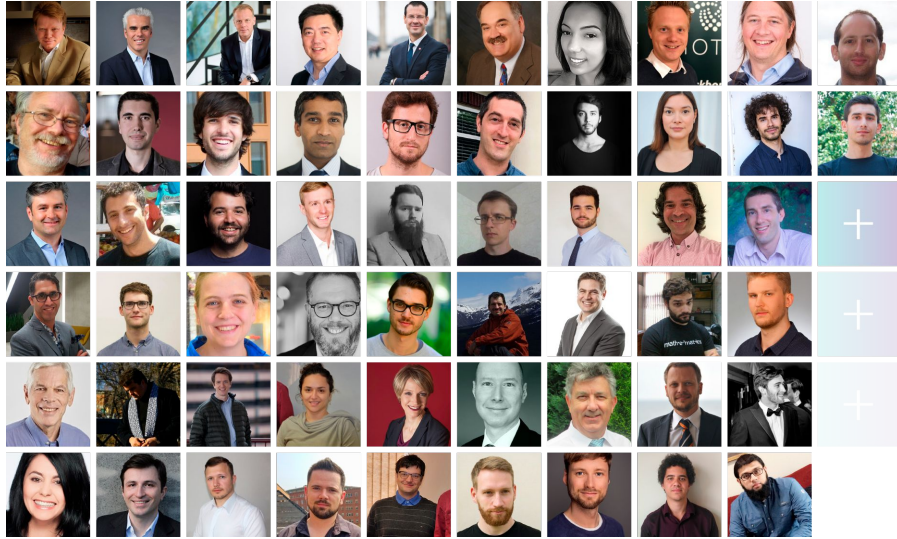


## Social Impact

- 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**

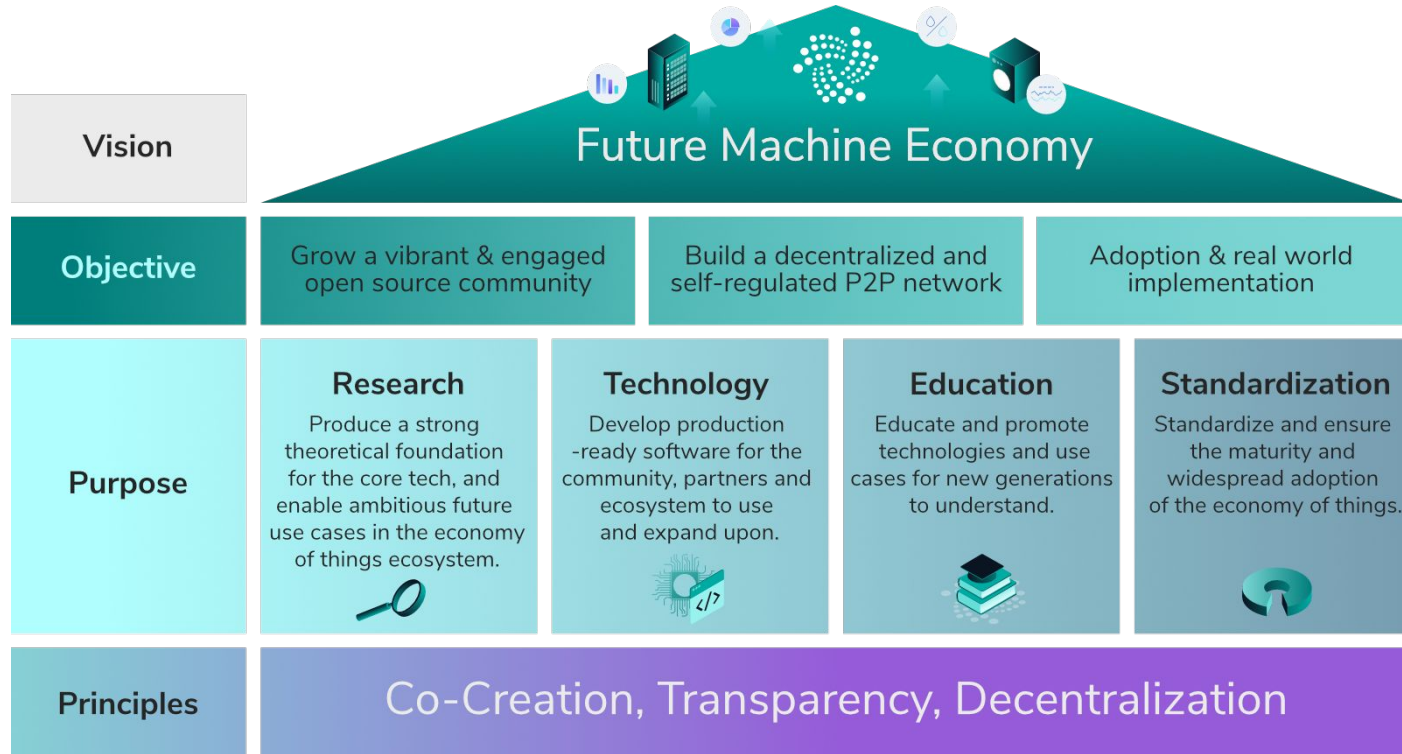
Non-profit Foundation based and regulated in  
Berlin, Germany

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

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

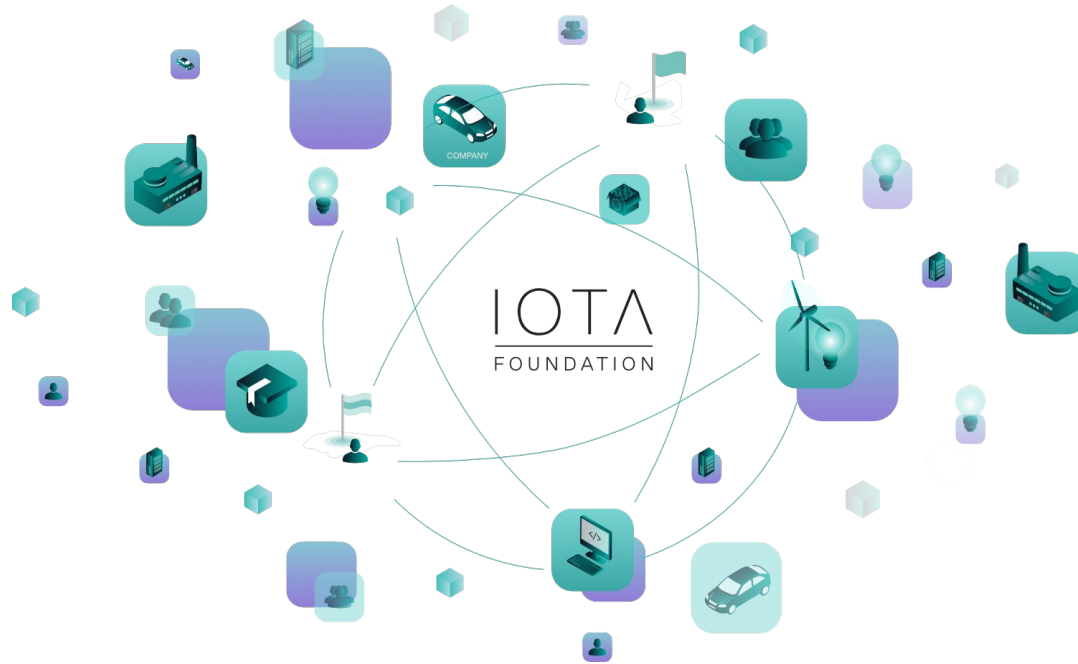
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# IOTA Foundation - Vision & Goals



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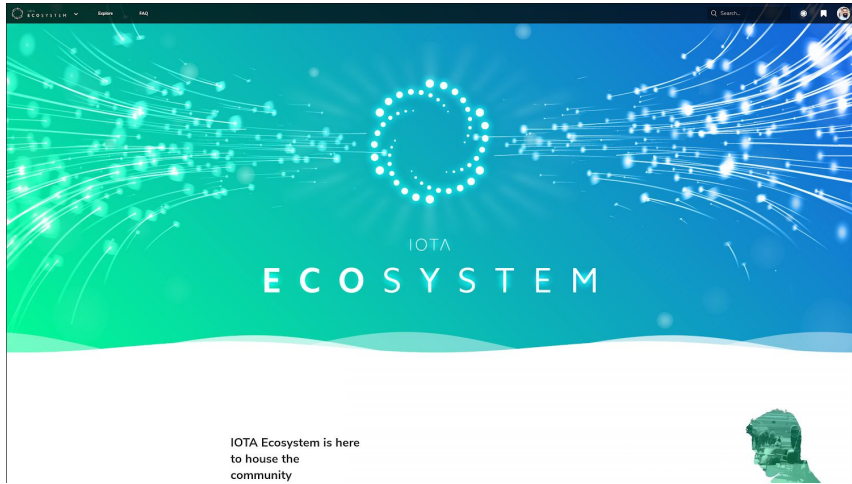
# IOTA Ecosystem



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

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# IOTA Ecosystem



## Meet the IOTA Ecosystem

Tutorials

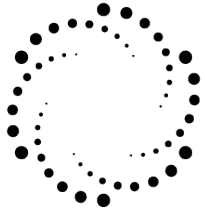
Projects

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

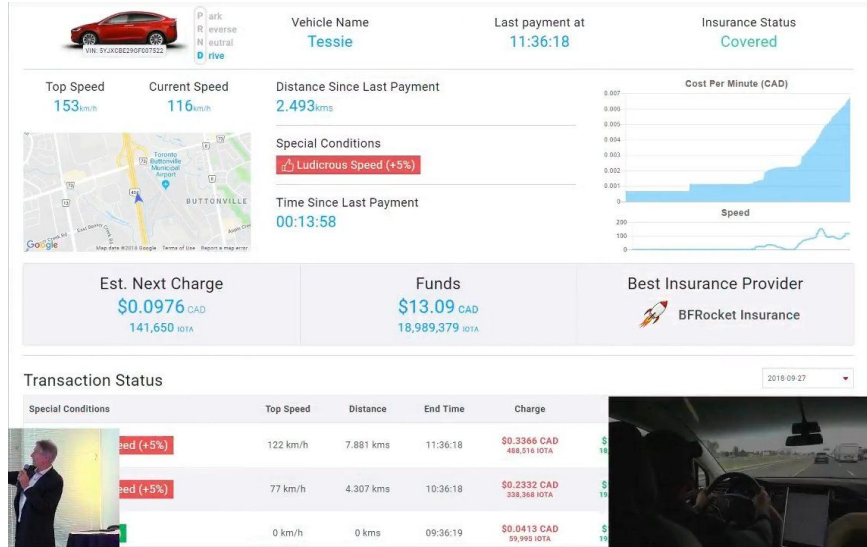
Reputation system based on node behavior

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](http://www.iota.org)

Ecosystem: [ecosystem.iota.org](http://ecosystem.iota.org)

Discord: [discord.iota.org](http://discord.iota.org)

Twitter: [twitter.com/iotatoken](https://twitter.com/iotatoken)

LinkedIn: [linkedin.com/company/iotafoundation](https://linkedin.com/company/iotafoundation)

YouTube: [www.youtube.com/c/iotafoundation](https://www.youtube.com/c/iotafoundation)

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