

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

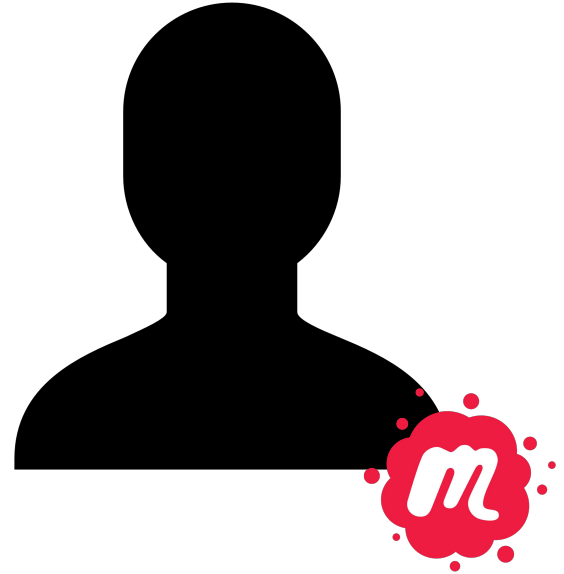
Name Surname

Your Title - **yourwebsite.com**

Following distributed ledger technology since 2011

Love free and open source software

- Project with local company
-
-
-



*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

whoami/whoarewe

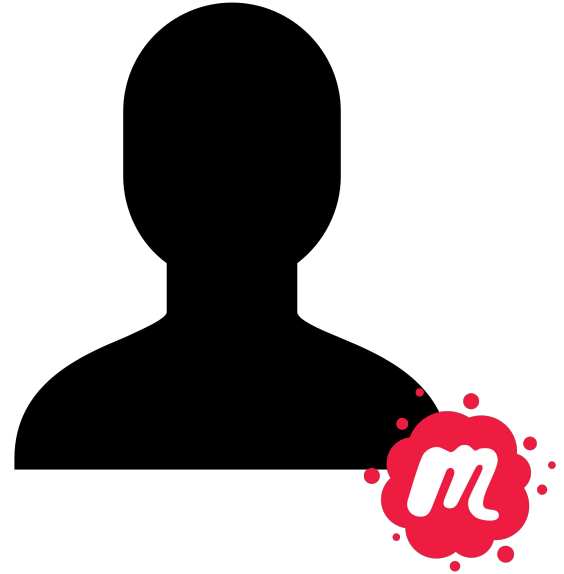
Name Surname

Your Title - **yourwebsite.com**

Following distributed ledger technology since 2011

Love free and open source software

- Project with local company
-
-
-



*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

whoami/whoarewe

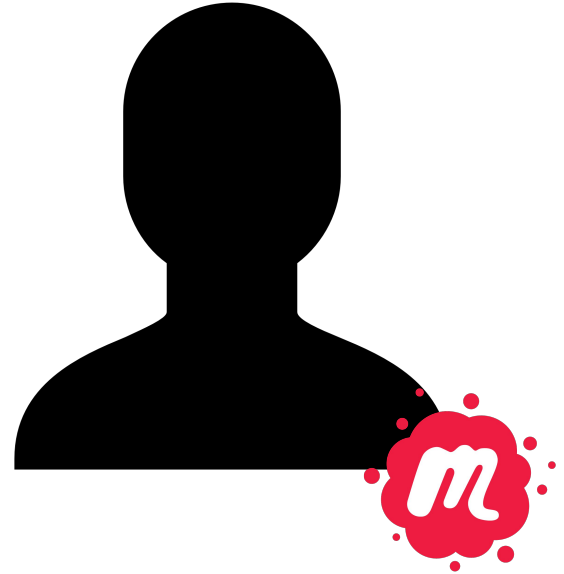
Name Surname

Your Title - **yourwebsite.com**

Following distributed ledger technology since 2011

Love free and open source software

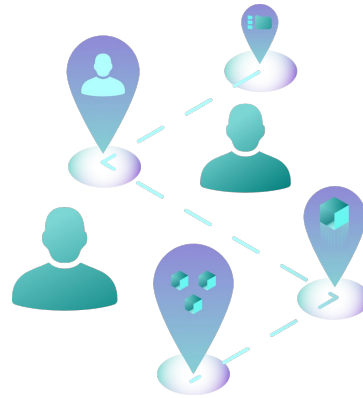
- Project with local company
-
-
-



*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*



Technology

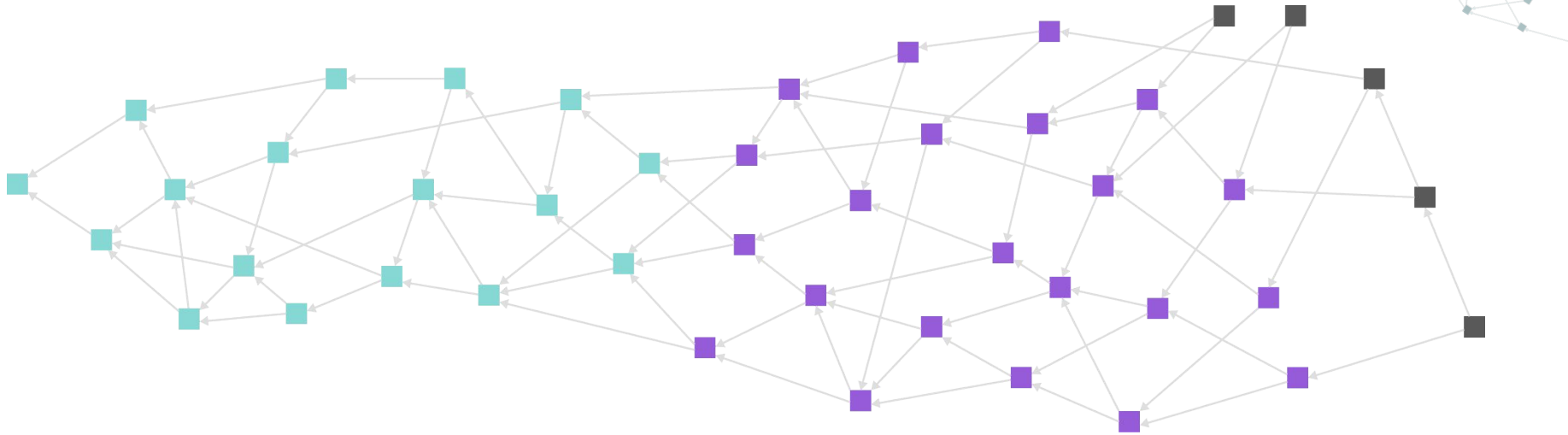


Governance



Ecosystem

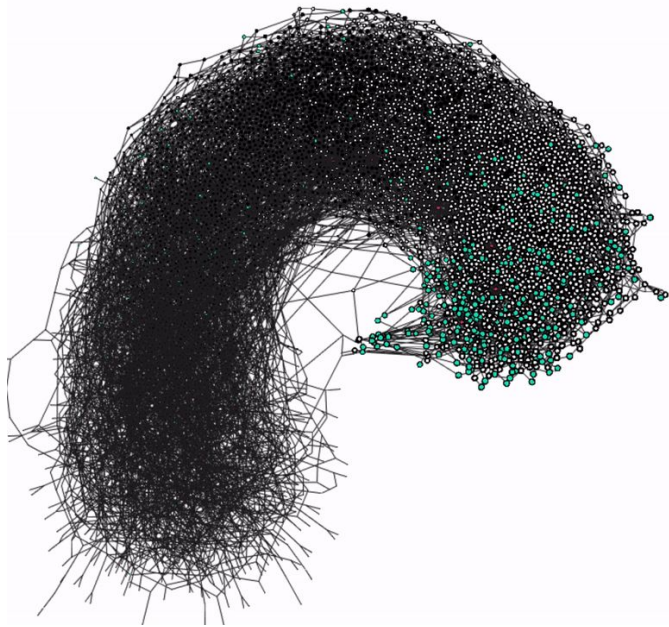
The Tangle



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

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

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

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*



IOTA nodes



IOTA networks consist of interconnected nodes that run the same node software

All participants are equal

Read/write access to the Tangle

Validate transactions

Store transactions in their local ledgers

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

IRI



IRI

IOTA reference implementation

Open-source Java software

Nodes in the public IOTA networks

Clients can transfer IOTA transactions among each other

Validate transactions

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

IRI - Benefits



Direct access to an IOTA network instead of having to connect to someone else's IRI node

Support the IOTA network to become more distributed by adding to the number of ledgers and validating the transactions in your neighbor's ledgers

Chronicle



Permanode solution

Store all transactions that reach an IRI node

Distributed database that's secure and that scales

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

Chronicle - Benefits

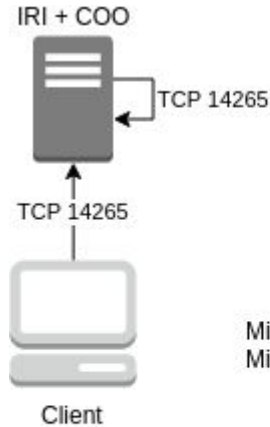


Financial data must be stored for 10 years in some cases, and identity data needs to be kept for the lifetime of the identity

Store all the IOTA transactions in a secure, scalable, and distributed database

Monetization of the permanode

Private Tangle



Minimum weight magnitude (MWM): 9
Milestone interval (tick): 60 seconds

Single-Node Private Tangle

An IOTA network you control

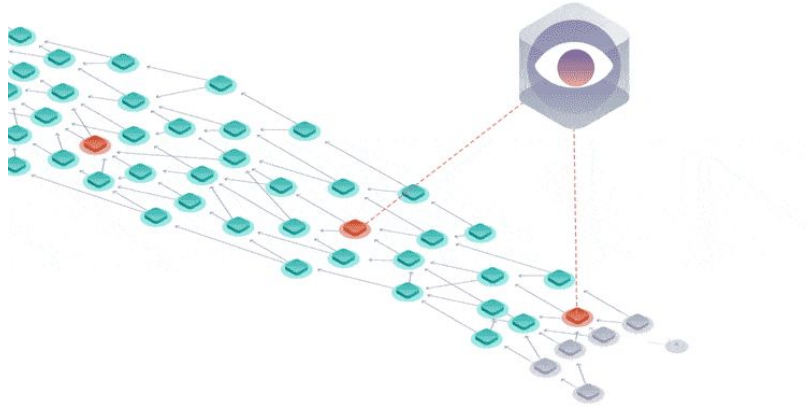
Explore the technology

Set up a faster IOTA network

Develop and test an application

Showcase the technology

The Coordinator - Compass



The Coordinator

Milestones

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

The Coordicide



<https://youtu.be/guNNqEeu6gY>

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

The Coordicide



DECENTRALIZED & PERMISSIONLESS

Unlike other DLTs, IOTA's solution does not compromise decentralization in any way.



FINALITY WITHIN SECONDS

Transactions reach finality in seconds without having to wait for confirmations by external entities. A massively reduced need for reattachments increases the reliability of transactions.



SCALABLE & LIGHTWEIGHT

Truly limitless scalability with no protocol-related bottlenecks. The network is limited only by hardware and the laws of physics.



MODULAR & FUTURE PROOF

Much like the Internet Protocol, a layered approach enables extension of the base protocol through additional modules.



FEELESS & DATA TRANSACTION

Feeless transactions enable the secure transfer of data and values between humans and machines, opening up new business models based on micro-payments.



RELIABLE GOVERNANCE & OPEN SOURCE

The nonprofit organization behind IOTA drives the adoption and evolution of its free and open source technology without any collusion of interests with 3rd parties like miners.

Node Identities

Auto-peering

Spam Protection

Tip Selection

Shimmer

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

GoShimmer



Prototype software with Coordicide
modules

Auto-peering

Node identities

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

GoShimmer - Benefits



By running a GoShimmer node, you can test the cutting-edge developments in the next stage of the IOTA protocol

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

HORNET



HORNET

COMMUNITY DRIVEN IOTA NODE

Community driven node

GoShimmer as the base

Compiled to native code

Increased performance

Easy to install

Lightweight alternative to IRI

Runs on low-end devices

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

HORNET- Benefits



The modularity makes it possible to use modules from GoShimmer within HORNET without many modifications to the code

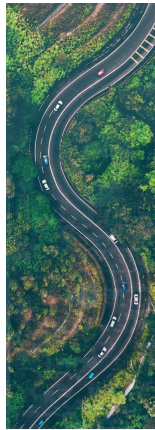
HORNET is supposed to become a node software, which is created by the community for the community

Use-Cases



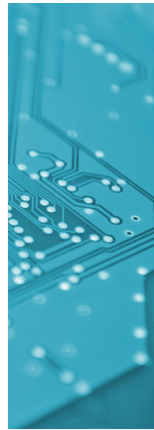
Telecom

- 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



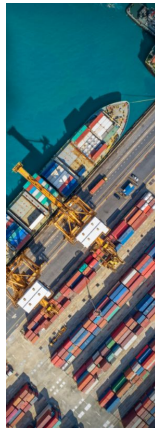
Digital Economy

- 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

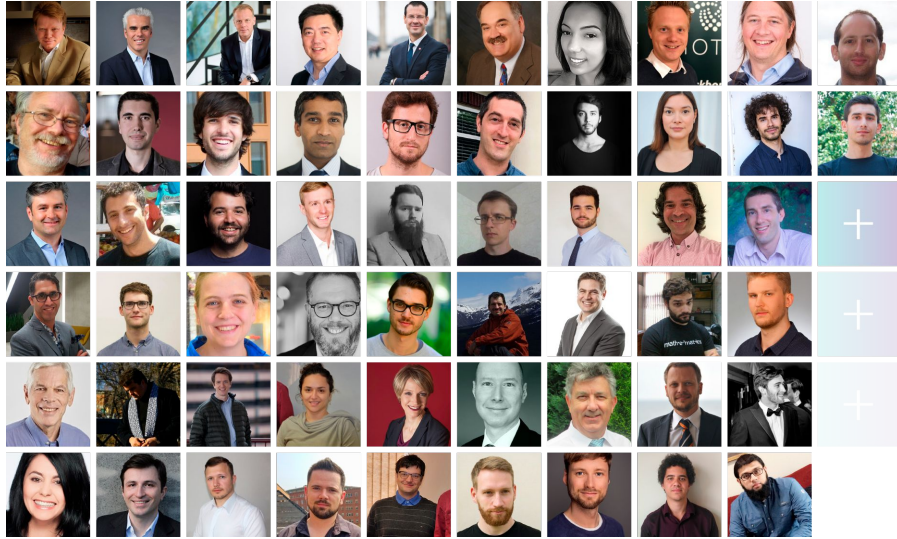
- Asset Tracking
- Connected Supply Chains
- Global Trade Document Flow
- Product Authenticity and Provenance
- Ports Management
- New Insurance Models



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**

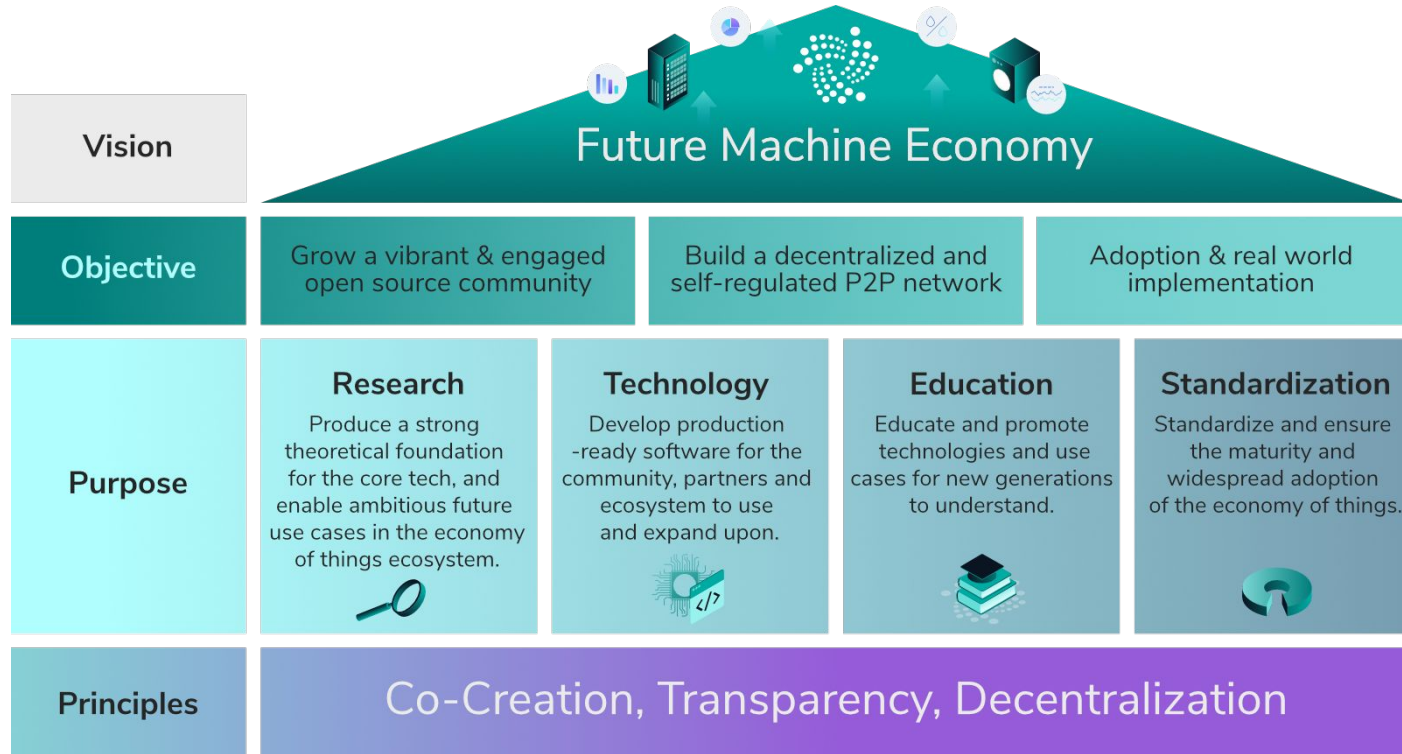
Non-profit Foundation based and regulated in
Berlin, Germany

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

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

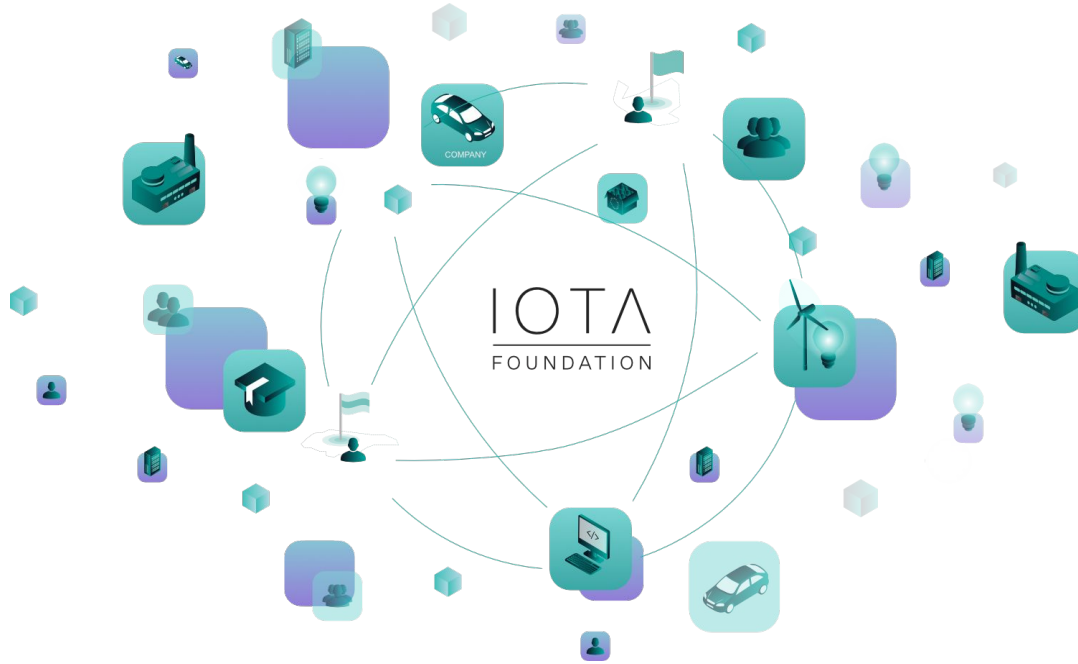
*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

IOTA Foundation - Vision & Goals



*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

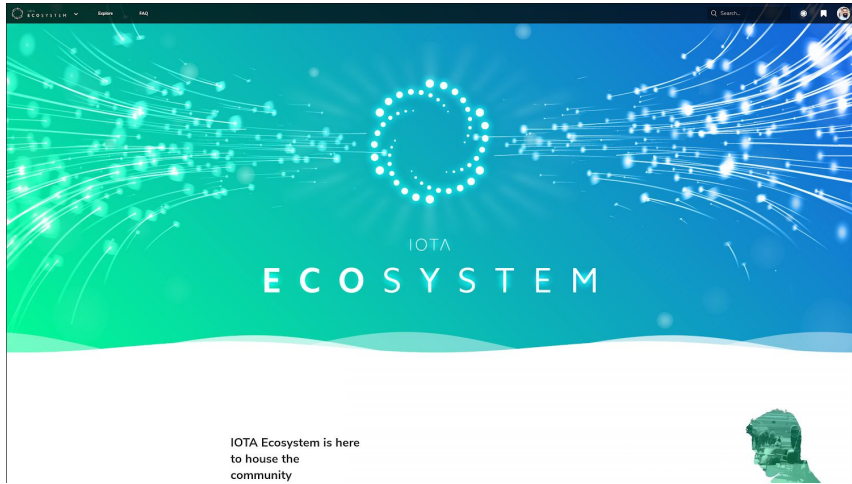
IOTA Ecosystem



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

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

IOTA Ecosystem



Meet the IOTA Ecosystem

Tutorials

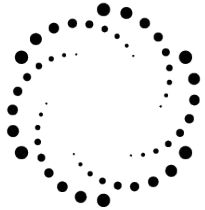
Projects

Events

Developers

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

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

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

Coordicide Grant Program



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

Research Grant

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)

*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

AION - Selective Permanode

A decorative graphic in the top right corner showing a portion of a Tangle network, with orange nodes connected by thin grey lines.

Selective permanode solution

Keeps a pruned Tangle
mathematically intact

Developers can host their own data

Data becomes transferrable

Ecosystem developer fund grantee



Hornet - IOTA Fullnode



HORNET
COMMUNITY DRIVEN IOTA NODE

Entirely written in Go

IOTA fullnode on low-end devices
such as a Raspberry Pi

Ecosystem developer fund grantee

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

Sponsors:

<SPONSOR NAME>

<Description>

sponsor.website.com