

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

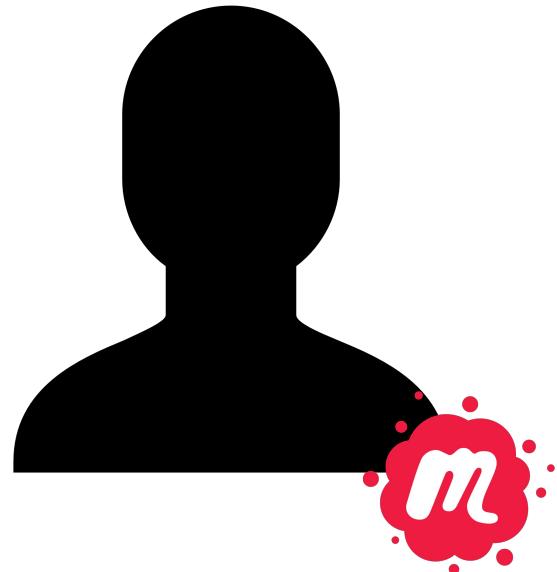
Name Surname

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

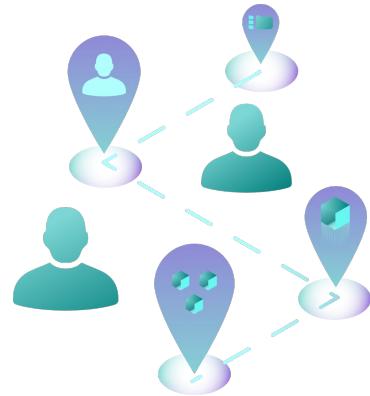
- Project with local company
-
-
-



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



Technology



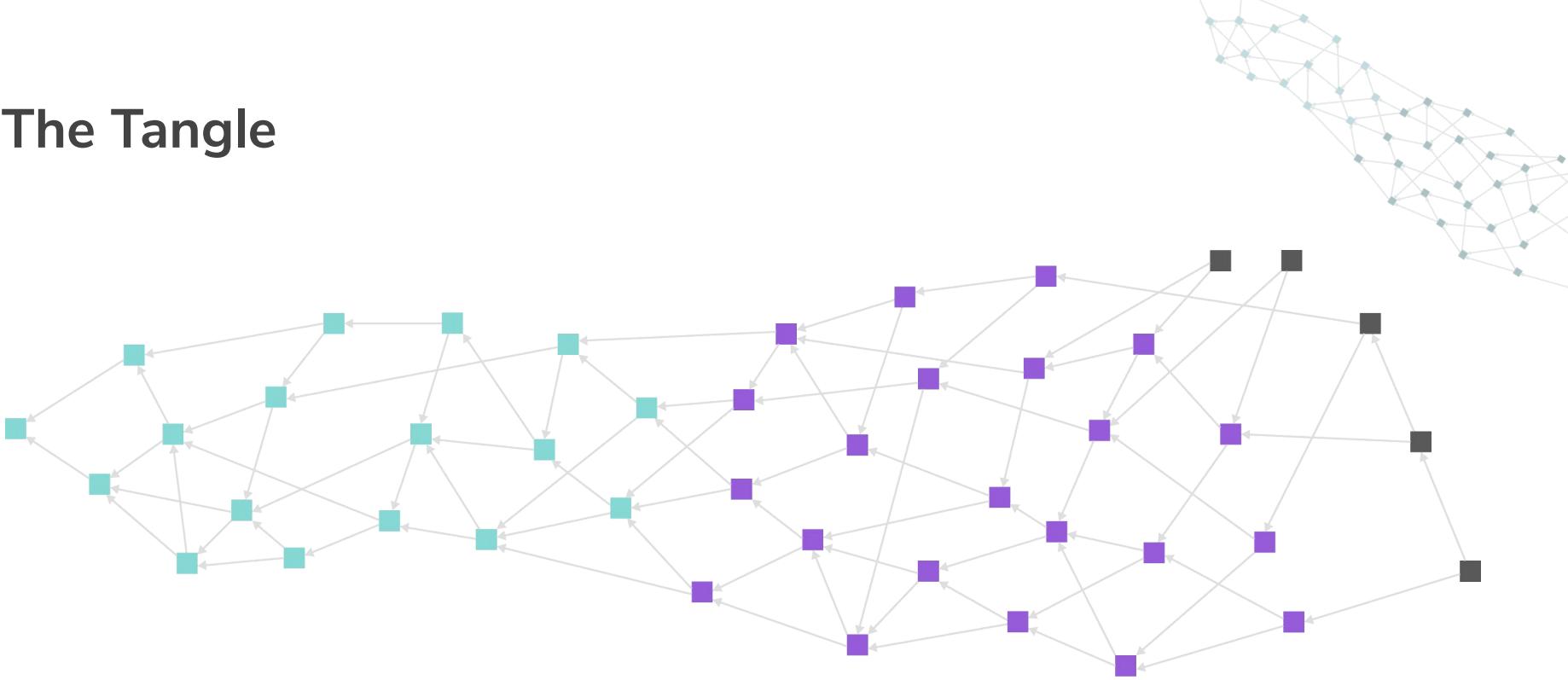
Governance



Ecosystem

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

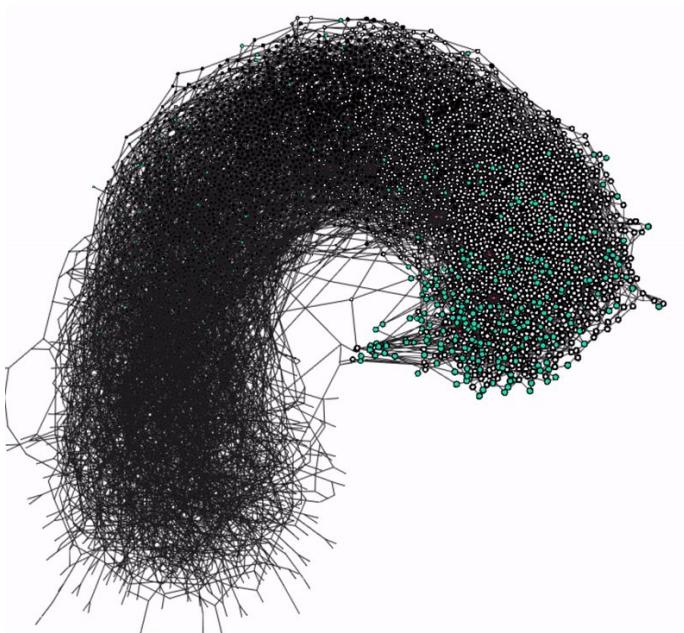
The Tangle



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)*

IoT Projects

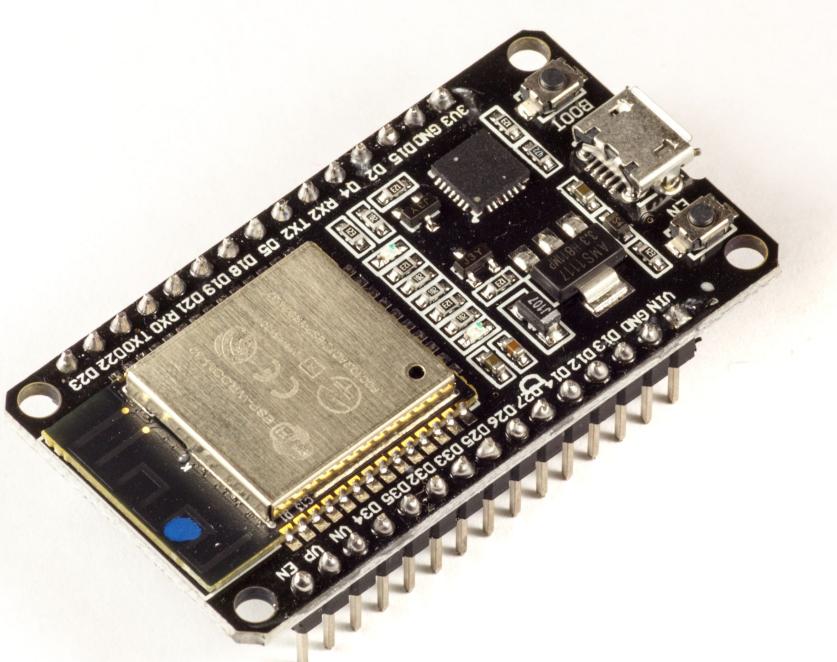


The Internet of Things (IoT) is an umbrella term for billions of Internet-connected devices that share data with each other.

Thanks to this data-sharing network, IoT is becoming the driving force in creating more efficient communication across many aspects of our lives.

IOTA allows these devices to use the Tangle as a single source of truth, where they can buy, sell, or simply send data among each other for zero fees.

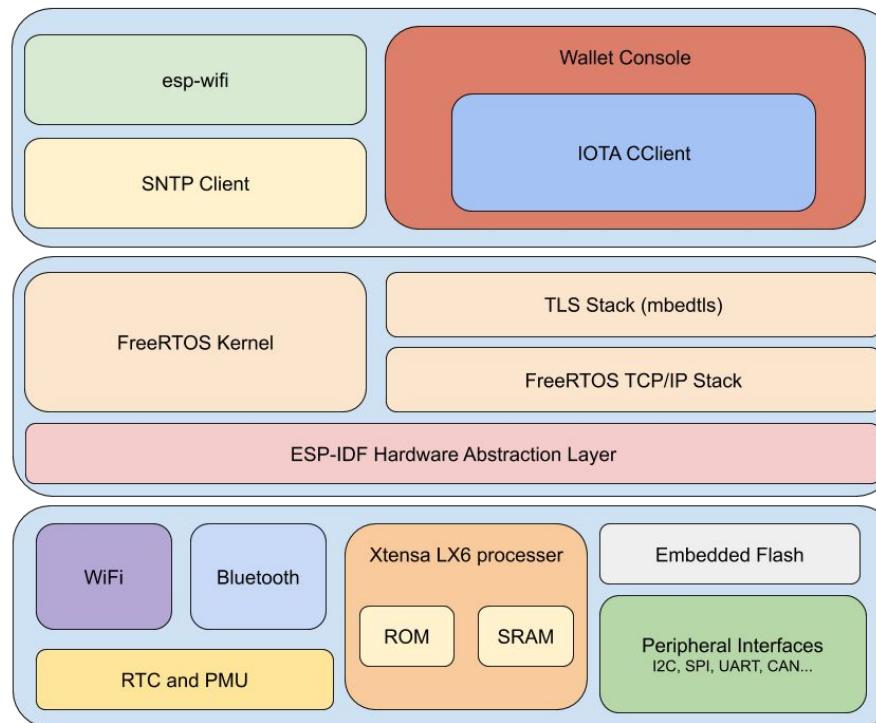
ESP32



The ESP32 is a WiFi-compatible microcontroller that also support Bluetooth Low Energy (BLE)

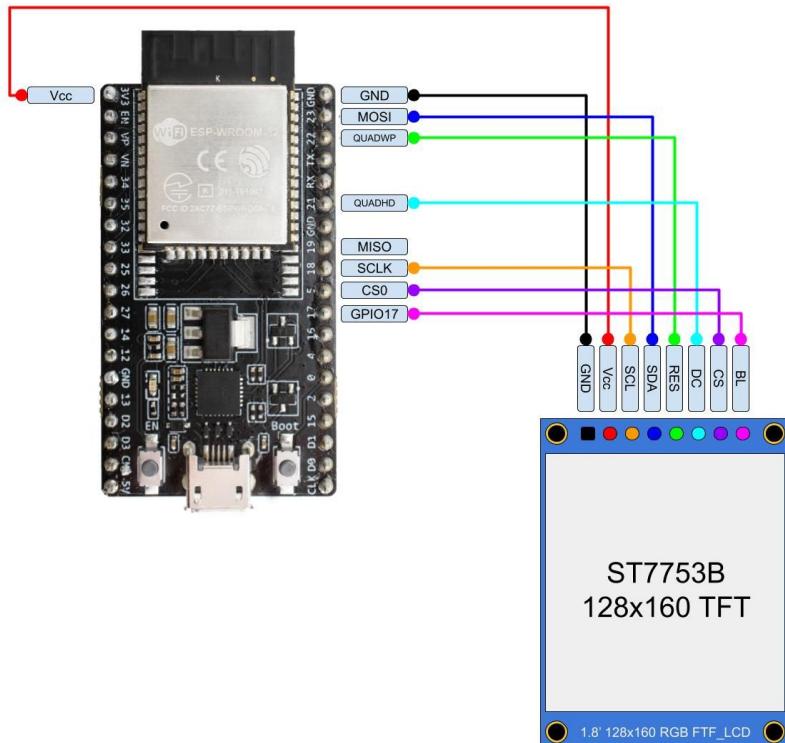
- WiFi development board used in handmade IoT projects
- Bluetooth capabilities
- ~32 I/O pins
- Powerful 32 bit dual core CPU

Command-line wallet on an ESP32



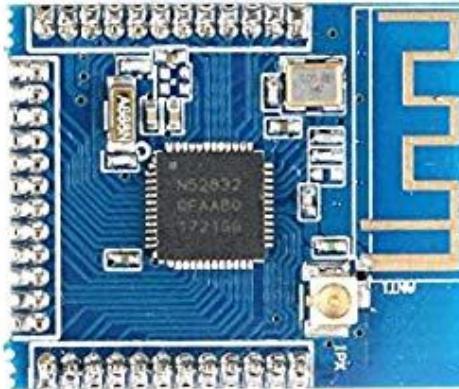
*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

Address monitor on an ESP32



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

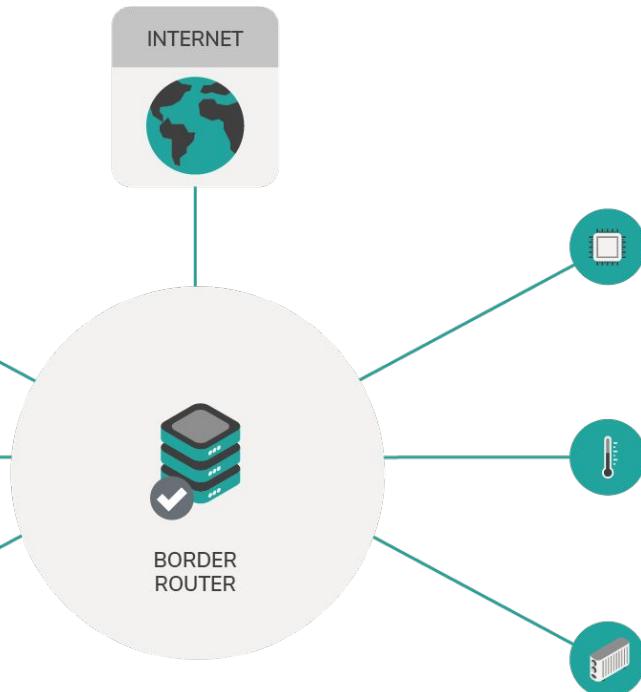
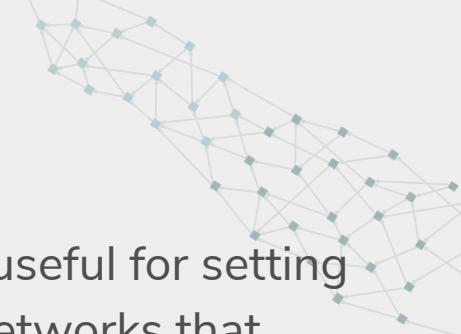
nRF52 Nordic Semiconductor



The nRF52 is power-efficient series of microcontrollers that supports Bluetooth Low Energy (BLE),

- Low-power wireless solutions

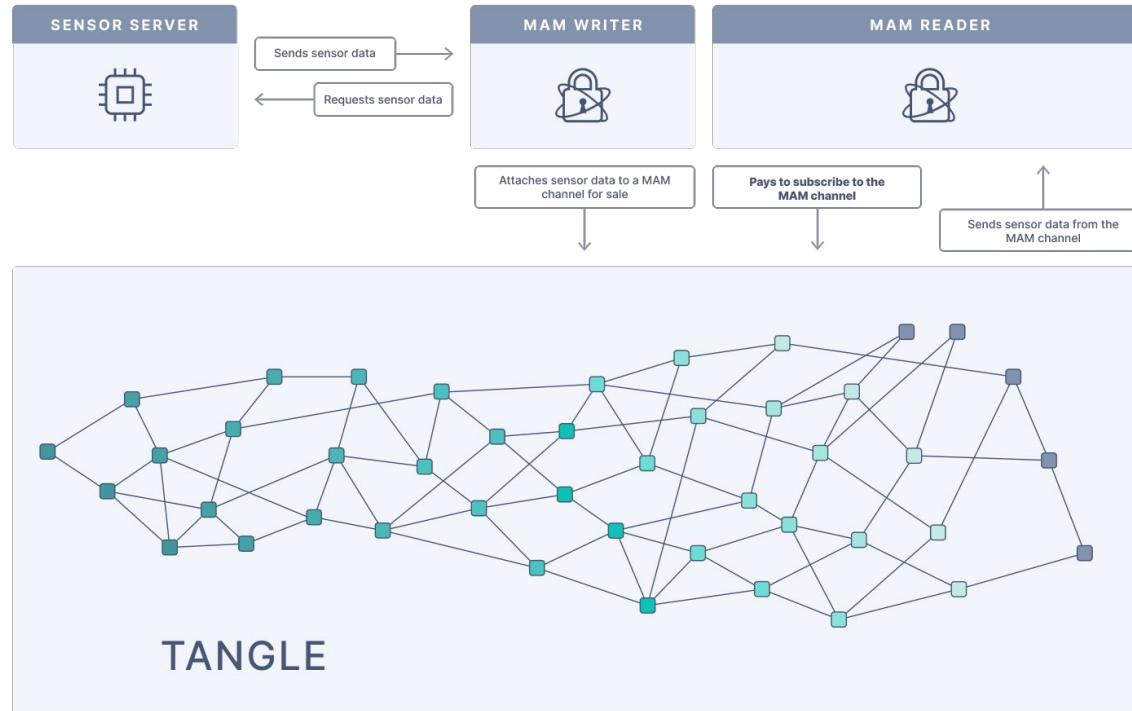
Bluetooth star network



Star networks are useful for setting up sensor server networks that communicate through a border router.

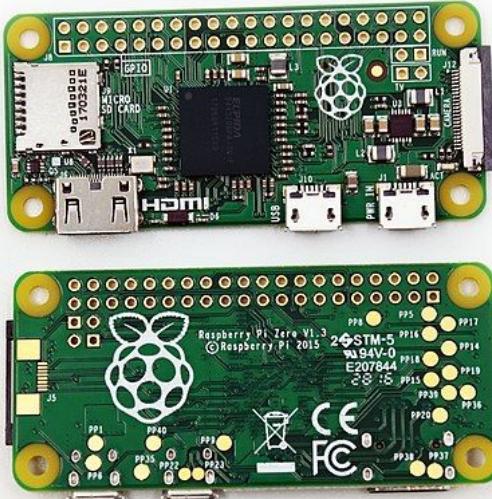
6LoWPAN over Bluetooth
Low-Energy star network, using state-of-the-art IoT industry standards.

Attach sensor data to the Tangle



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

SBC (Single Board Computer)



Single-board computers (SBCs) are useful for building applications that require more power than a microcontroller.

- Lighter
- Smaller
- Power efficient

App Blueprints



Application blueprints explain how you can use IOTA to solve real-world problems and to support well-defined business needs.

Blueprints are designed to do the following:

- Describe a problem and a solution
- Present an architecture that shows you how to solve the problem with IOTA
- Explain how you can test, edit, and deploy the blueprint

Data Marketplace



Exchange data

Monetise data streams

Empower organisations to shape
their own IOTA-enabled data
marketplace

Provide the basis of new smart
business models

New wave of value creation, for the
Internet of Everything, as the
Economy of Things.



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

Document Immutability



Trusted and transparent way to verify document immutability

Tool to automatically check the downloaded files from a trusted source (the Tangle)

Alert the user if the files have been tampered with

P2P Energy Grid



Energy is shared amongst
neighbors and decentralized islands

Automate the transfer of power
and payment

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

Tangle Data Storage

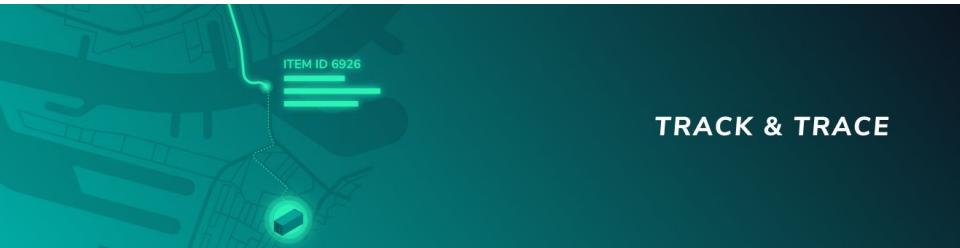


Store a hash of data and a pointer to its location in third-party data storage

Data to remain private and allow only authorized users to view

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

Track & Trace



Seamlessly collect and share information about returnable assets

Guaranteed access control of the collected information through MAM

No trust is required among those who run the infrastructure

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



<https://youtu.be/mZSG93W1u7A>

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

Developer Documentation

Search for topics

Popular topics: [IRI](#) [Hub](#) [Trinity](#) [Private Tangle](#)

Getting Started

Client Libraries

Node Software

Private Tangle

Wallets

Utilities

App Blueprints

IoT Projects



What is IOTA?



Get Started



Developer Handbook

docs.iota.org

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

Use-Cases



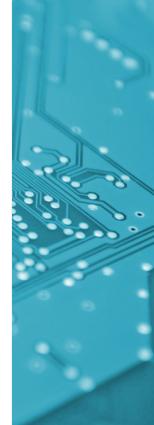
Telecom

- 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

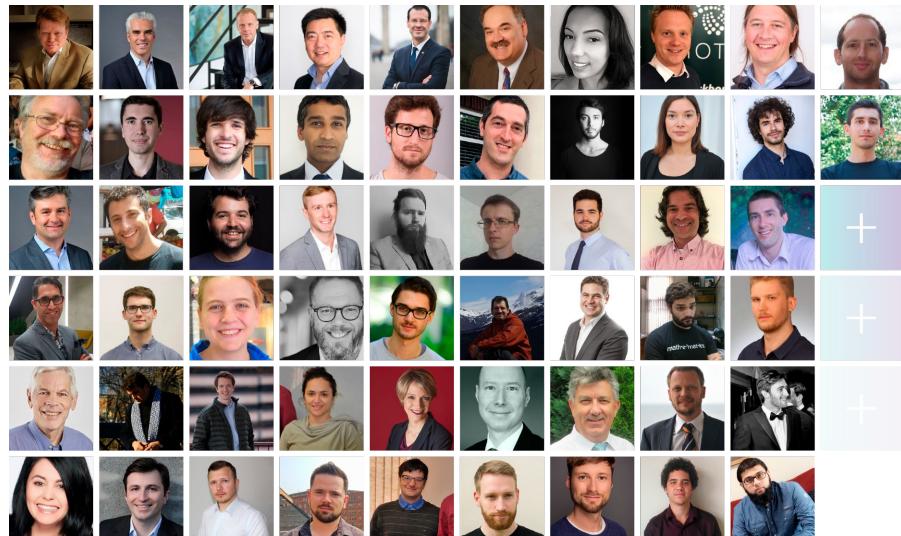
- Asset Tracking
- Connected Supply Chains
- Global Trade Document Flow
- Product Authenticity and Provenance
- Ports Management
- New Insurance Models



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**

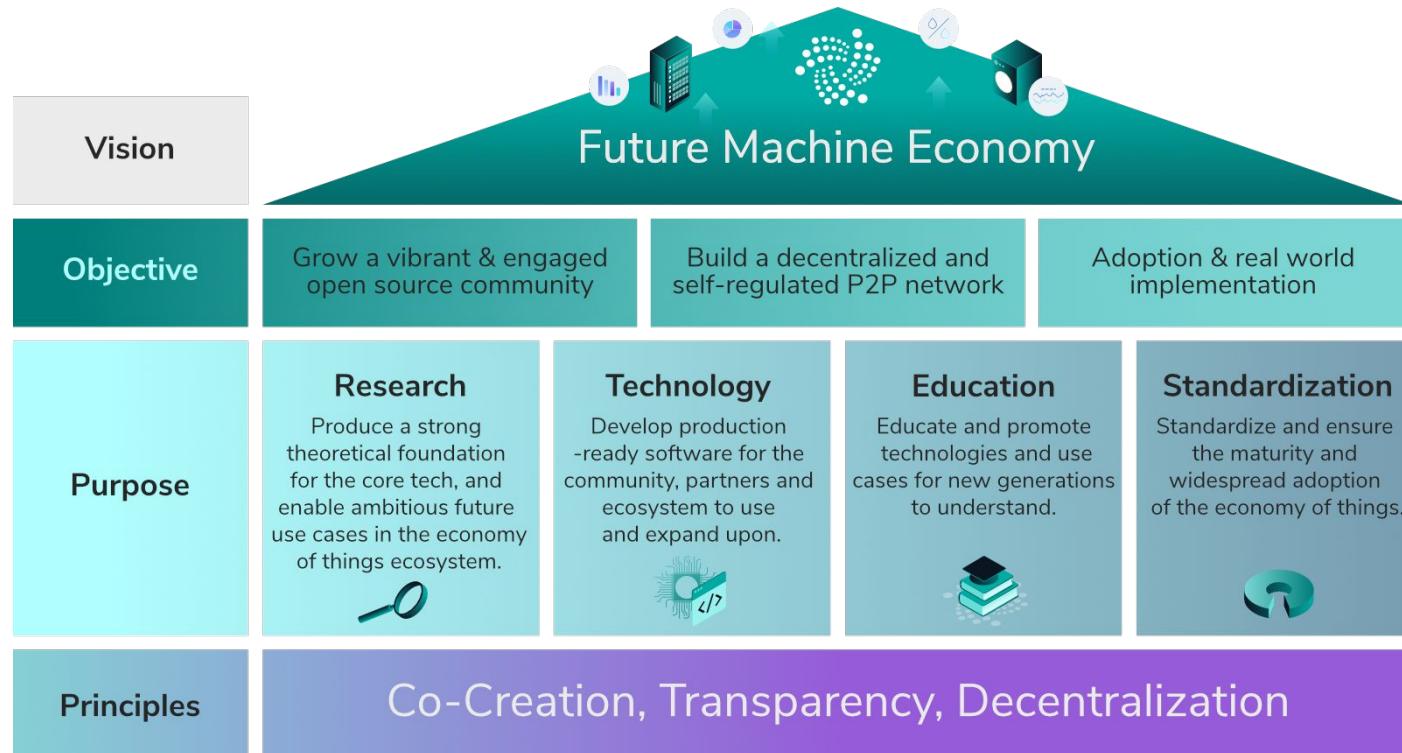
Non-profit Foundation based and regulated in
Berlin, Germany

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

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

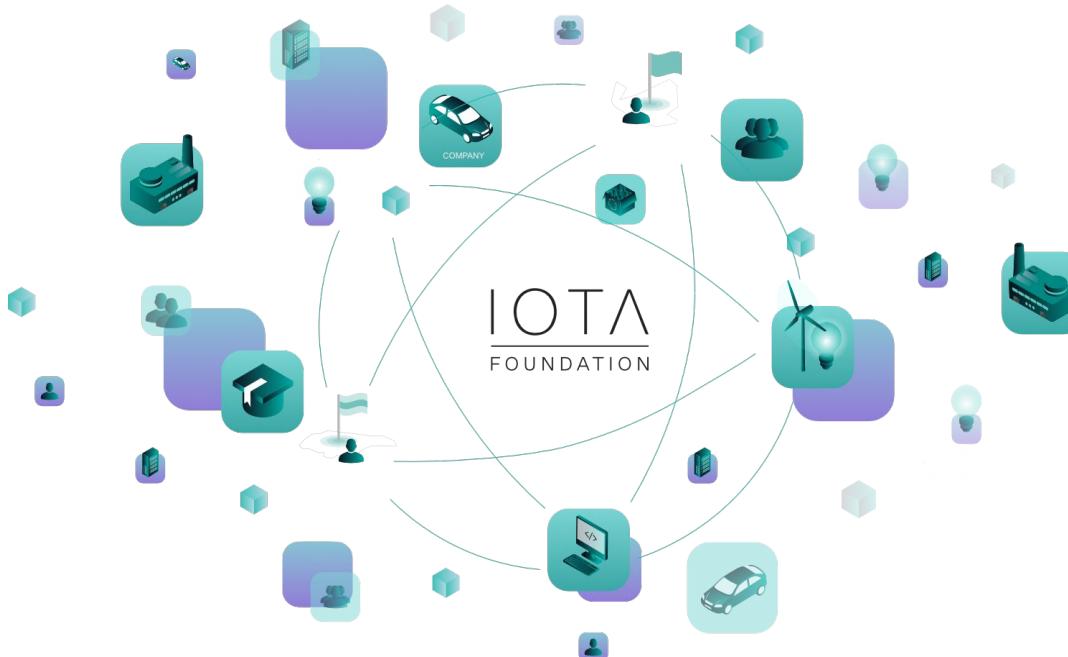
*Bottom Banner for Personal logos, webpage and IOTA Community Logo for personalisation
(please edit me in the master slides)*

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

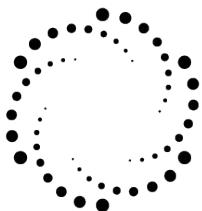
Projects

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)*



INDUSTRY
MARKETPLACE

The world's first autonomous and decentralized
INDUSTRY MARKETPLACE



IOTA
FOUNDATION



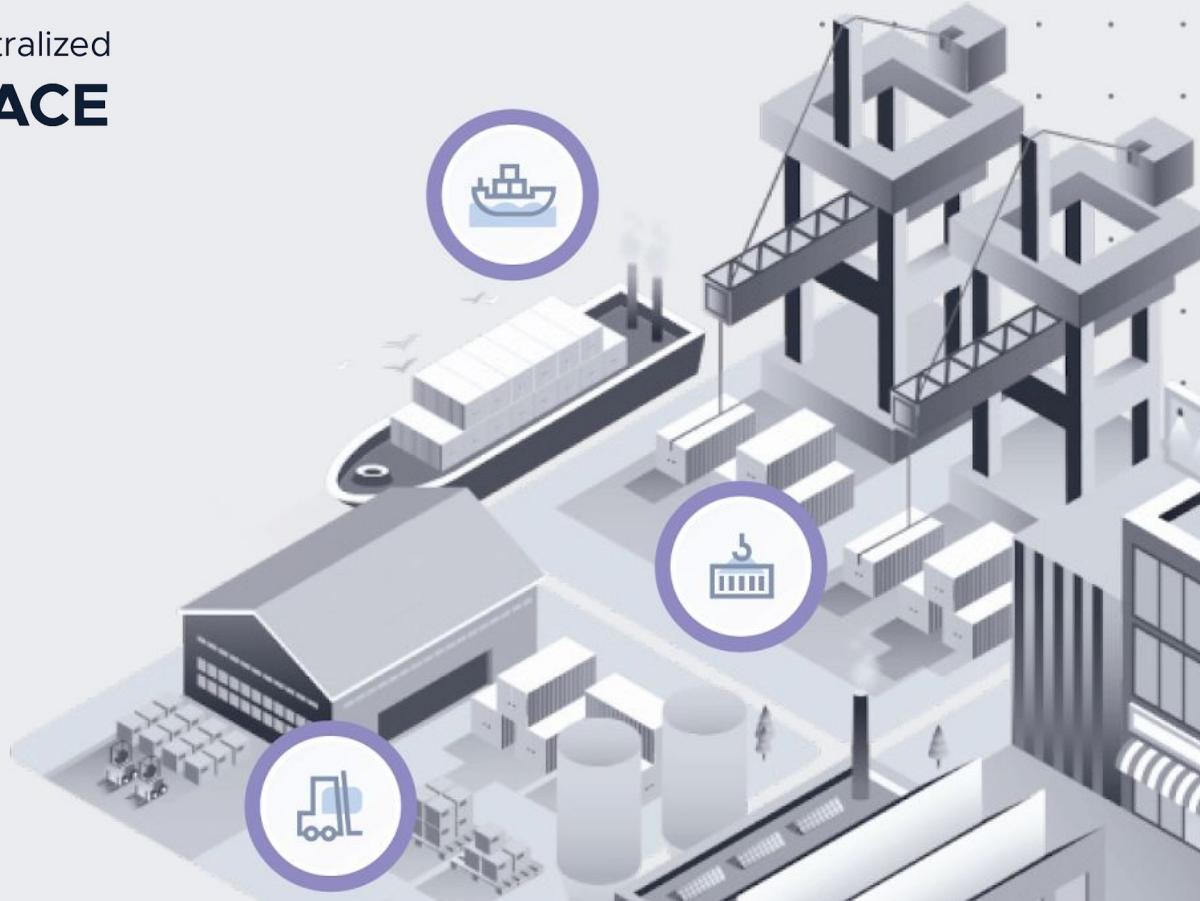
OTTO VON GUERICKE
UNIVERSITÄT
MAGDEBURG

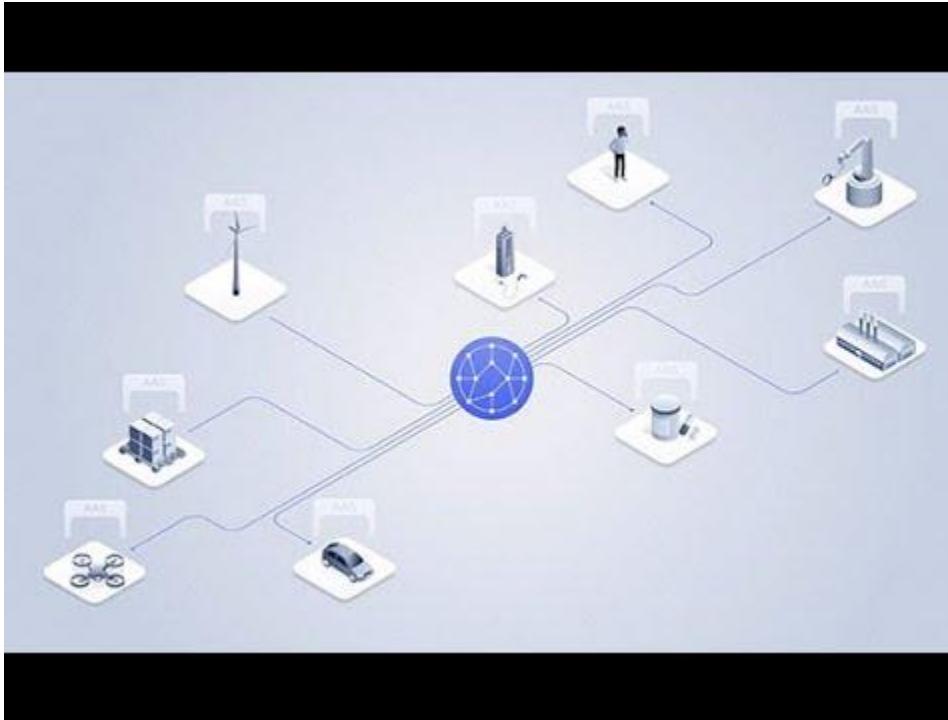


HELMUT SCHMIDT
UNIVERSITÄT
Universität der Bundeswehr Hamburg



NEOCEPTION
A Pepperl+Fuchs Company

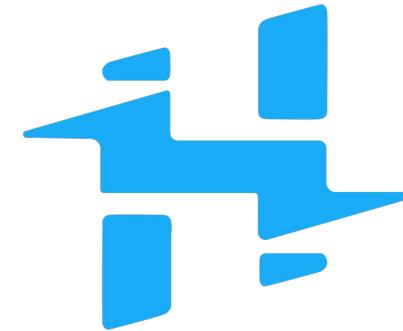




https://youtu.be/Jnh_9nKkemM

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

Pay Per Coffee



hackster.io/IOTA

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



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