

EUROPE INTERMODAL 2019

Beyond the Blockchain hype: low-cost & opensourced technology is available to ensure data integrity and trust in supply chain coordination

Jens Munc Lund-Nielsen
Head of Global Trade & Supply Chains,
IOTA Foundation



Jens Munch Lund-Nielsen Head of Global Trade & Supply Chains, IOTA Foundation

- Experience from Maersk, PwC, NGOs on strategy, new ventures, digitalization and sustainability
- Danish, live in London, worked globally
- Advisor to UK Parliament on Blockchain, advisor the World Economic Forum's "Blockchain for supply chains", advisor to the IBCS Group
- Executive MBA, INSEAD & Master in Philosophy, Copenhagen University







Growth from 4 to 100+ full time employees across 23 countries

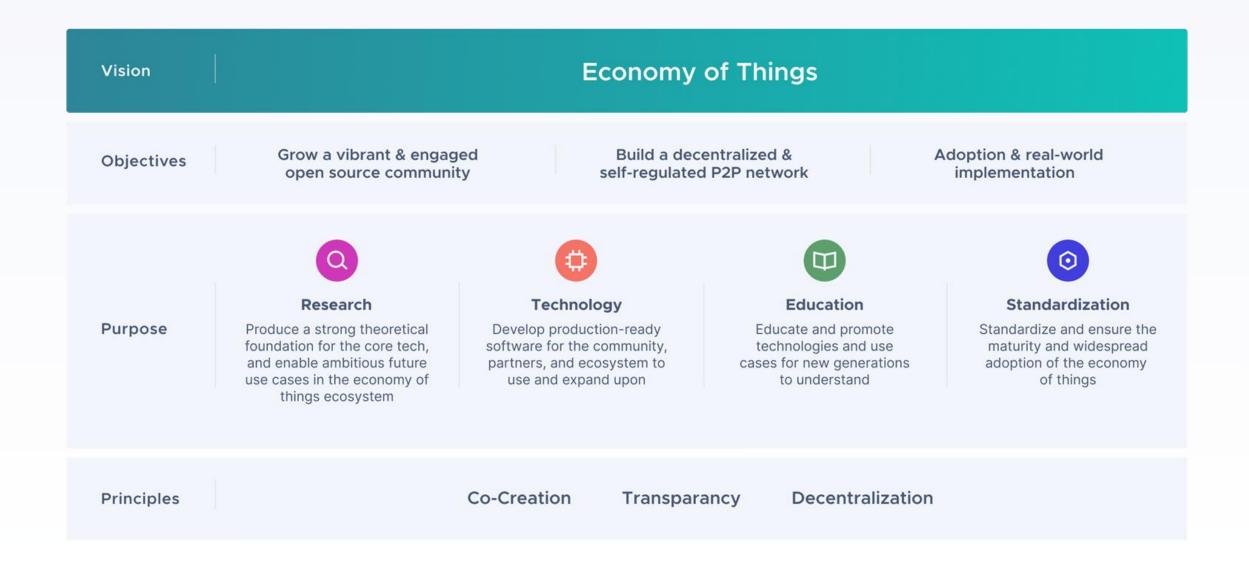


\$40m+ in funding



Focused on Technical and Regulatory Challenges of Crypto-Currencies & DLT

The IOTA Foundation is working towards a big vision



Building a digital trade pipeline in East Africa

- in partnership with Trademark East Africa, Kenya Revenue Authorities and industry players

The data pipeline will be used to manage cross-border trade processes to make international trade a truly digital experience.

- Be owned collectively: "For our region, we want a platform that is owned and managed locally by local stakeholders and the government"
- Accommodate current infrastructure: "Any electronic solution should be able to communicate effectively with all systems"
- Authenticate trade documents: Provide the technology to authenticate that trade documents/data (Certificate of Origin etc.) are authentic and haven't been forged.



The innovation

Building on existing infrastructure - only to add the available innovation of DLT



Principle of data generated at source

By using DLT, we ensure data is generated at source - giving trust and accountability to information



Single-version-of-truth

Enable a shared Information Pipeline where all actors can have higher visibility on consignment status and trade certificates.



Authentication of trade documents/data

Provide the technology to authenticate that trade documents/data (Certificate of Origin etc.) are authentic and haven't been forged

Why the Tangle (IOTA)

A number of features were critical in the choice of underlying technology



Data management

No central database - full control reside with data owner (as well as accountability)



Security

The protocol use encryption and quantum-secure principles to ensure highest level of security



Open source

The technology is open source and freely available for all - making the cost.of . . . implementation low



IOTA Tangle Technology

Overcoming the limitations of Blockchain



Secure data transfer



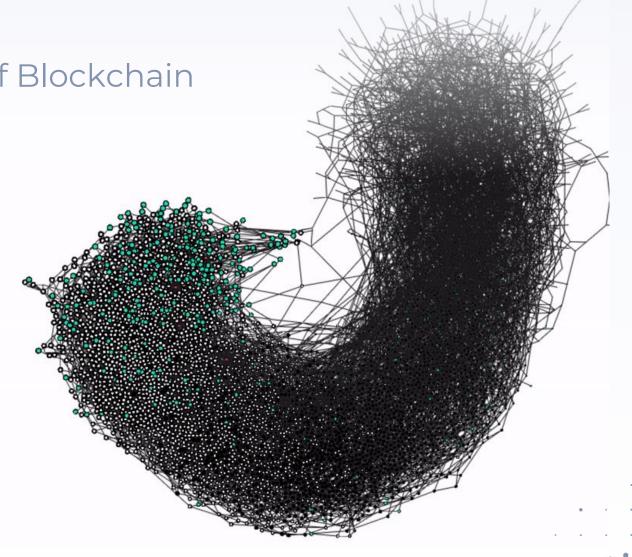
Quantum Immune



Highly Scalable



Zero-fee transactions

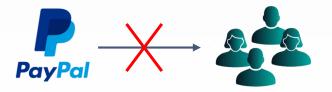






Permissionless Innovation

- Traditional ecosystems are owned by a single entity, leading to discrimination, exclusion and limitation of the innovation potential
- Permissionless Innovation gives everyone the ability to innovate and participate
- Innovation Assumption: Nobody, even the creator of a technology, is able to fully understand its potential and the use cases





Track the provenance and authenticity of your clothing





try the demo

Multiple use-cases are being tested

- engaged in pilots, working groups and consortiums





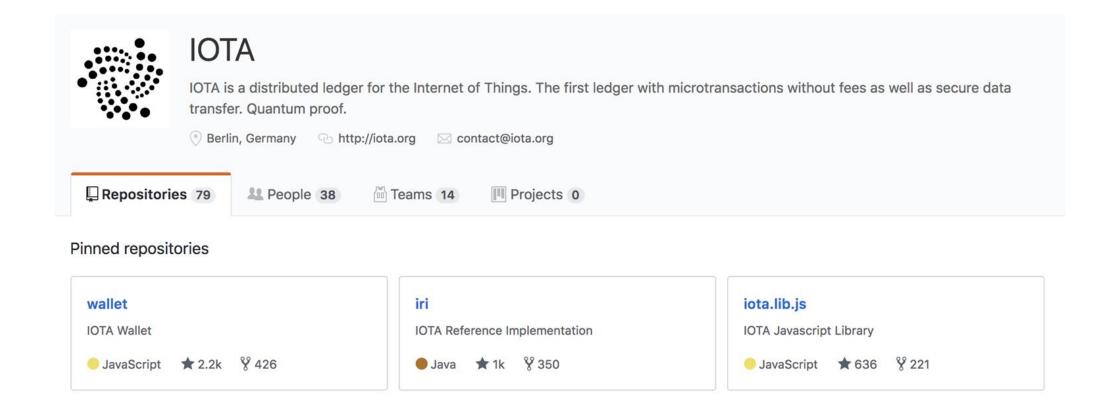
Building a "blockchain kit" for the industry



We are working with start-ups, large companies, consortiums and influencers to set standards, to explore the full potential of DLT in trade & supply chains, and to share experience.



Foundation Software



The software that the IOTA Foundation produces is publicly available. Developers should start here: https://docs.iota.org



Thank You!

Jens Munch Lund-Nielsen
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