



Using Blockchain Technology to Support Climate Action and Paris Agreement Implementation

The Climate Ledger Initiative

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Blockchain Technology and the World Economy

2015

2016

2017



42 Financial Intermediaries start bc based collaboration



«By 2027 about 10% of World GDP will be stored on blockchains»

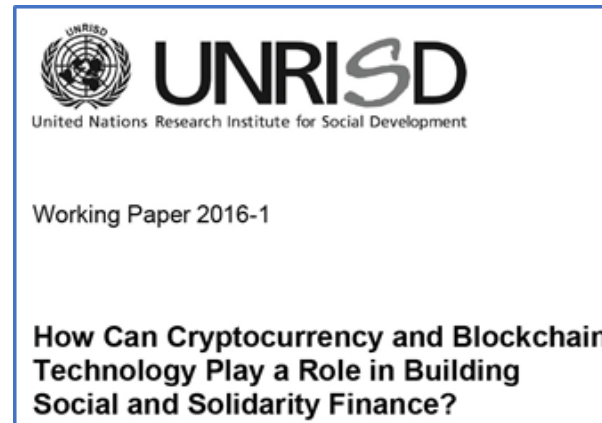
Blockchain Technology and the World's Challenges

2015



The **WFP** is the first UN agency to experiment with bc technology. The agency is using bc to distribute humanitarian aid to those in need. In 2017 a second bc project is launched to support Syrian refugees.

2016



2017



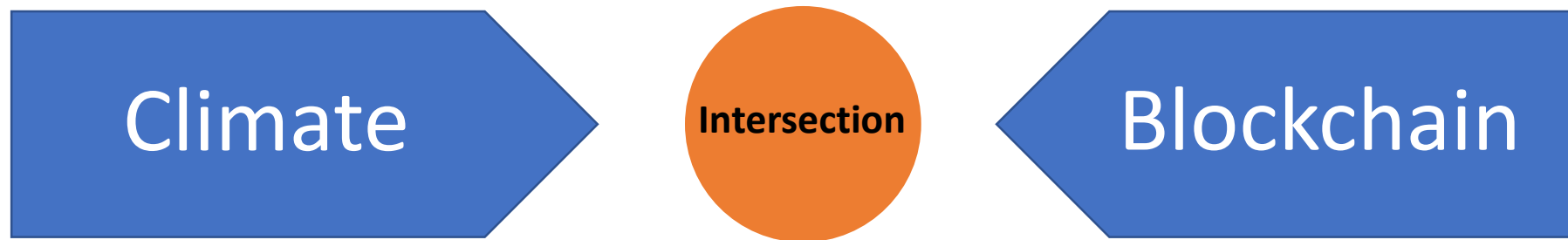
“UNICEF is funding blockchain projects to solve the worlds biggest problems”

Blockchain Technology – What is it?



- A new kind of **decentralized database**;
- Data is not stored centralized but **distributed** over many participating computers;
- In principle, all transactions in the network are **transparent** for its participants;
- All participants continuously **monitor** and record transactions and **check** database records for coherence;
- This process is automatized through a network protocol (clients) – similar to HTTP.

Blockchain Technology and its Potential for Climate Action



1. Raise ambition for climate mitigation, adaptation & finance
2. Accelerate Paris implementation with specific climate action in line with UNFCCC/IPCC
3. Streamline processes, increase transparency & improve stakeholder integration
4. Convene innovators, facilitate knowledge sharing & engage new as well as existing actors
5. Promote blockchain-based climate innovation & mobilise talent for high-impact climate action

Blockchain Technology – What are its potential benefits?

- Operating in a blockchain network **fosters cooperation and collaboration**
- Blockchains are created by miners/validators, by adding new blocks (**transparent audit trails**)
- The technology is decentralized, fostering **enhanced safety and reliability for network participants**
- Blockchains offer **enhanced data security** (all processes/new records are checked)
- Blockchains may contain entire programs (“**smart contracts**”)

Climate Ledger Initiative (CLI)

Mission: to accelerate the momentum for climate action under the Paris Agreement by fostering the use of the emerging blockchain technology.

Climate Ledger Initiative's activities focus on three parallel tracks:

- **Research track**
- **Innovation use cases**
- **Innovation call-outs**

The Climate Ledger Initiative is supported by the Government of Switzerland, the government of Liechtenstein, the LIFE Climate Foundation and EU's Climate-KiC.

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Thank you.

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