

# Blockchain for the Humanitarian and Development Sectors



# UN Request for Information: Blockchain-based International Assistance



“[have] identified the potential of blockchain technology to dramatically improve the efficiency, transparency and accountability in the international humanitarian, development or peacekeeping assistance.”

A blue background with a network of white circles and lines, representing a blockchain or digital network. The circles vary in size and are connected by thin white lines, creating a complex web-like structure. The overall aesthetic is clean and modern, typical of digital technology presentations.

# Blockchain potential

## **Cryptocurrencies:**

- Micro-financing, cash-based transfers, value exchange for the unbanked, alternative currency for countries with unstable local currency

## **Money (fiat) transactions:**

- Donation transparency, peer-to-peer support, universal basic income, humanitarian and development aid disbursements, remittances, cash-based aid directly to beneficiaries, inter-organization transfers, tokenized money for aid, smart-aid contracts

## **Supply chain:**

- Provenance tracking and authenticity proof
- Humanitarian/disaster relief supply chain

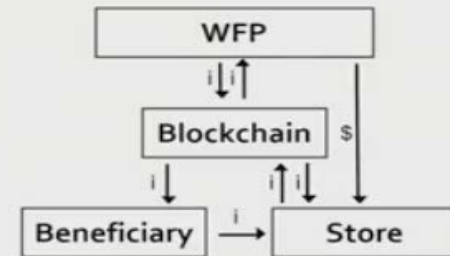
## **Identity:**

- Verification, management, storage, exchange

## **Data collection / management / registration / records:**



- 5 months
- 10,500 beneficiaries
- USD 1.6 million
- 200,000 TX
- 98% fee reduction
- No info shared
- No funds advance
- Full control
- 100% WFP reality
- Speed
- Flexibility



```
300     uint public version = 2;
301
302     // Transaction structure to remember details of transaction lest it need be saved
303     struct Transaction {
304         address to;
305         uint value;
306         bytes data;
307     }
```

# Blockchain



## UNICEF's Innovation Ventures:

- Current fund call - offering \$50-\$90,000 equity-free investments to for-profit technology start-ups that have the potential to benefit humanity.
- Invested in South African IXO Foundation which uses blockchain to develop identity tools for early childhood education
- Chris Fabian and ICOs: *"If we are in a place to look at designing our own token, look at others to help design theirs in a way that we can be a part of, and potentially also have a crypto-denominated investment fund, those would all be things that would be on our roadmap for the near future."*
- UNICEF is now running the first public [ethereum](#) node managed within the U.N. in order to learn about smart contracts and Solidity.

The banner features a blue background with a network of white circles and lines, resembling a molecular or data structure. The text 'TU Delft and HumanityX Pilot' is centered in a bold, black, sans-serif font.

# TU Delft and HumanityX Pilot

- A repository of blockchain projects in the humanitarian sector
- A whitepaper of blockchain use cases and key challenges facing blockchain adoption in the humanitarian sector
- Decision tree to help determine when and how blockchain can be used in the humanitarian sector
- Design workshops to test our research