Blockchain technology field pilots
Panel 4c, Australasian Aid Conference 2019

Wednesday 20th February at 11:00am

Chair: Nick Byrne, TypeHuman
Panel: Amanda Robinson, Australian Red Cross
       Melanie Hardman, Sempo
       Josh Hallwright, Oxfam Australia
       Fabiano Franz, World Vision Timor-Leste (via video)
WHAT IS?

Kartaun Bele is a digital cash transfer platform based on smartcards and smaller number of smartphones designed to promote social inclusion.

Kartaun Bele allows remote population to receive, store and send digital money, from card to card or remotely, doing what the banks can not do.
...IS DIGITAL CASH TRANSFER PLATFORM

Individual *smartcards* as digital wallet

**Smaller number** of *smartphones* as terminals

Advanced *cryptography* and *secure hardware* to ensure safety and integrity of transactions

Allow transactions to be performed in the *temporary absence of network*
Screen shots

1. **Training mode**
   - KartaunBele v2739
   -Jacob H. Please [reconnect]

2. **Transfers**
   - $ Balance: $0.42
   - 2 new card transactions
   - 4 new internet transactions
   - Present your card
   - 2017-04-30
     - NEW! Joy Ava Harber $0.98
   - 2017-03-14
     - NEW! Joy Ava Harber $3.22
   - 2016-12-07
     - NEW! Joy Ava Harber $1.93
   - 2016-11-19
     - NEW! Joy Ava Harber $1.38

3. **Payer Card**
   - BOB will receive $2.00
   - Who? will send $2.00

4. **Sender: enter your secret code**
   - 1 2 ABC 3 DEF
   - 4 GHI 5 JKL 6 MNO
   - 7 PQRS 8 TUV 9 WXYZ
   - Done
• How people act and participate has changed dramatically from decades past.
• Engagement with causes and social issues has become more prolific and fragmented.
• Structural barriers are restricting participation & costing organisations
• Identity is the fundamental foundational layer that enables civic, social and economic participation.
The Identity Project has been established to address a gap in the market for a truly decentralised self-sovereign identity platform that serves humanity.

The project is focussed on developing both the solution/product and the identity alliance to support the development of the trust framework.
The Solution

- Volunteer and employee digital credential verification.
- Builds an on-ramp into digital identity by allowing individuals to claim their blockchain identity, and reuse this across the ecosystem.
- Blockchain powered e-vouchers
- Transfers using SMS, Android App, Tap-to-Pay card
- Pilot Locations: Lebanon, Greece and Iraqi Kurdistan.
- Delivered relief to more than 1500 people
Learnings:

- Adapt process to local requirements
- Support all edge cases
- Blockchain keeps honest systems honest
SMART DONATIONS

Defining Smart Donations

A Smart Donation is:

• An immutable pledge by a donor
• For a defined beneficiary (e.g. restricted Oxfam account)
• Held in escrow, released when certain conditions are validated
• Or returned once the ‘contract’ has expired
• A unique Contract between a Donor and the Beneficiary, offered and mediated by a charity (e.g. Oxfam)

Graphic: “Donor” by Red Cross Red Crescent Climate Centre from The Noun Project, Public Domain (CC0), “Contract” by Ralf Schmitzer from The Noun Project, Creative Commons Attribution 3, “Stock” by Giannis Choulakis from The Noun Project, Creative Commons Attribution 3

OXCHAIN

OXFAM Australia
Use-Case Scenarios

- Securely pledging ahead
- Dynamic support
- Enforcing personal pacts