BUILDING BLOCKS

The future of cash disbursements at the World Food Programme
The Sustainable Development Goals

1. NO POVERTY
2. ZERO HUNGER
3. GOOD HEALTH AND WELL-BEING
4. QUALITY EDUCATION
5. GENDER EQUALITY
6. CLEAN WATER AND SANITATION
7. AFFORDABLE AND CLEAN ENERGY
8. DECENT WORK AND ECONOMIC GROWTH
9. INDUSTRY, INNOVATION AND INFRASTRUCTURE
10. REDUCED INEQUALITIES
11. SUSTAINABLE CITIES AND COMMUNITIES
12. RESPONSIBLE CONSUMPTION AND PRODUCTION
13. CLIMATE ACTION
14. LIFE BELOW WATER
15. LIFE ON LAND
16. PEACE, JUSTICE AND STRONG INSTITUTIONS
17. PARTNERSHIPS FOR THE GOALS
33 Projects Supported by the WFP Innovation Accelerator

- ShareTheMeal
- PRISM
- MAPs
- Green Box toolkit
- CPRI
- Post-harvest losses
- Smart energy in the last mile
- Conflict-Resilience Livelihood Opportunities
- Hydroponic Food Computers
- Blockchain
- Story-tellers
- Nutrifami
- AgriUp
- Automated satellite monitoring
- Rice fortification
- Sustainability
- Sustainable school meals
- Farm From a Box
- Farm to Market Alliance
- Self-driving trucks Cargo on demand
- Farm From a Box
- Hydroponics
- Maano-Virtual farmers market
Cash Based Transfers (CBT)

• Transfers in various forms: paper vouchers, credit cards, mobile money

• CBT enables to buy food in the local market or supermarket

• Multiplier effect on the local economy - strengthens existing food market and builds national capacities
WFP’s Cash-Based Transfer Growth

- **Number of people receiving CBT (millions)**
  - 2010, 2015, 2016

- **CBT Disbursed (USD Millions)**
  - 2015, 2016
The Problem

There are certain challenges relating to CBT and Financial Service Providers (FSPs)

- Fees
- Financial Risk
- Privacy
- Reliance on Vendor Data
- Inoperability
What is Blockchain?
Building Blocks

WFP led blockchain solution based on the Ethereum protocol
Key Milestones

2016
April
Discovering the potential of blockchain

2017
January
Pakistan
Proof of Concept
97 people - 3 days

May
Jordan
Pilot and Scaleup
How does it work?

- All entitlements and transactions are recorded and verified in real time on the blockchain.
- A virtual wallet is created for each beneficiary where their transactions are recorded.
- The blockchain is in the backend, so there is no change from the beneficiary side.
Building Blocks - Azraq Camp, Jordan

Over 10,500 beneficiaries served

$1,000,000 through 100,000 transactions
Key Benefits of Building Blocks

- No funds advanced to financial service providers (FSPs)
- Protection of beneficiary data - not shared outside the UN
- 98% reduction in local bank fees
- Reconciliation based on WFP data
- Beneficiary experience remains the same
Additional use-cases for blockchain

- Assistance
- Identity
- Supply chain
- Health
- Education
- Finance
Roadmap

Expanding the flexibility of the Building Blocks platform

Scale-up (2017)
• Continued expansion in Jordan

Mobile Money (2018)
• Additional new locations are currently being scoped

Intra-organizational pilot (2018)
• Several possible scenarios being investigated
WFP Building Blocks
powered by Ethereum