



Tradecoin: deep tier impact finance with blockchain technology

June 16th, 2022 DTIF with Blockchain Walter Hetterschijt

About me



Walter Hetterschijt CEO @ Annona Deep Tier Impact Finance bv

15 years experience in SME Impact (Trade-) finance in Latin-America and Africa Sub Sahara. Natural products.

Systems thinker. Loves (platform) innovations in supply chains (finance)

Quinoah cooperative in Peru



Picture a smallholder producer

At the start on lots of supply chains

- No access to international markets
- No access to trade finance (or working capital)
- Small volumes
- Produces what is considered a homogenous product on highly commoditized market without access to risk mitigators. No upside just volume business without the volume; small margins. Competes with estate producers which determine the market, risk mitigation and access to cheap international finance.



Who are we?









Organic Development

Welcome to ODF

ORGANIC DEVELOPMENT FINANCE

Providing affordable finance to high potential organic agricultural enterprises in low income countries to increase organic production and achieve sustainable impact for environment and people.

Read More

OUR OFFER

Flexible seasonal working capital product.



USD or EUR loans, secured on buyer contracts.

Fair interest rates

loan amount outstanding.

calculated continuously based on actual

Loan amounts up to a certain percentage

2

of the value of your contract depending on the product, minimum €300,000.

Flexible drawdowns based on

need. Repaid capital can be drawn down multiple times throughout the season.

Tenor aligned with the seasonal needs of your business.

- **\$**

Supply Chain Support Services

GET INVOLVED

HOME

ABOUT US

CONTACT US





Organic Development

Finance

paymer in oices

payment X less principal and interest

loan

Who Are We?

Borrower

ODF - ORGANIC DEVELOPMENT FINANCE WE PROVIDE AFFORDABLE FINANCE FOR SUSTAINABLE AGRICULTURE AND FARMER LIVELIHOOD

ODF, a Dutch registered impact investment Fund, partners with certified organic agricultural partners worldwide to facilitate access to premium global commodity markets. Our mission is to provide affordable finance to high-potential organic agricultural companies in low-income and emerging countries to increase organic production and achieve sustainable impact for environment and people. ODF's partnership model links producers and processors with selected global buyers, through provision of investment capital and technical assistance.

ODF deploys investment capital that:

 Facilitates access to export markets for certified organic growers and producers.

Catalyzes business growth and long-

Connects producers with

responsible buyers.

term investment

- Ensures a fair price is paid for export quality organic produce.
- Supports smallholder farmers, encourages job creation for women and youth.
 - annona

Our research question

- To what level of detail can we trace and integrate end-to-end product, information, carbon footprint and financial flows of a supply chain using blockchain technology?
- How can we use this system to feed a risk assessment model that determines end2end risks in deep tier supply chain finance?
- What is the impact of using those developments on blockchain technologies to:
 - Want to increase the impact of deep tier finance solutions for the deepest tiered entities?
 - Increase the assessment of social, economic and environmental criteria of all entities of the chains?
 - Create full traceability on natural products and carbon utilisation
- And what additional benefits does an ecosystem-dedicated tokenization finance solution have on these pillars?





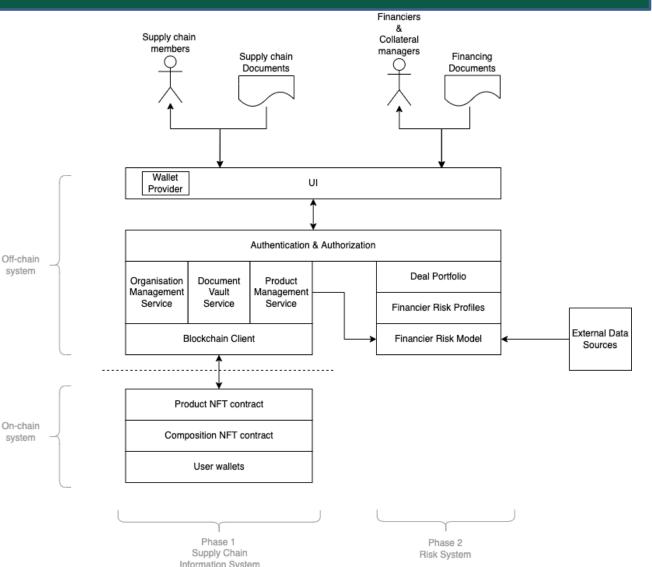
A supply chain finance platform

Information System

- Create Digital Twin of supply chain
 - Documents
 - Ownership transfers
 - Product transformations
 - Product logistics
- Document Vault
- Product NFT contract

Risk System

Risk assessments, monitoring



Example: Product NFT #1

- TokenID:
- Owner
- Commodity type
- Weight
- State
- CurrentHandler
- Transformations
- Root hash
- Token URI

```
,
0x123456787
Coffee
$400 kg
In Transport
0x456789101
PE1-WA5-SO3
01dfae6e5d4d90d98926
```

vault.blocklab.nl/productNFT1





Phase 2 – The risk model

Market and price risk

Credit risk

Obsolescence

Operational risk

Physical control





TradeCo	oin	Wallet P Tra	ack & Trace	<pre></pre>	Documents	✓ [¬] Financial portfolio	Ms. User
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Coffee 1x2	23456789 23456789	Trade Buy ⊕ Sell ↑					
Coffee 1x2	23456789 St	Potential Financiers 0×123456789 (Mr. Financier) 0×123456789 (Mr. Financier) Add Financier Details					
		Commodity Weight (g) State Transformation List Owner Current Handler	Trai Ra Oxc	0000 hsporting			പുന്നം

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Wallet

Coffee	1x23456789
Coffee	1x23456789



Time: Tokenizer:

Geolocation:

1×123456789

Initial Tokeninzation Ownership Transfer Product Transformation Product Handler Change

Product Split

Product Batch

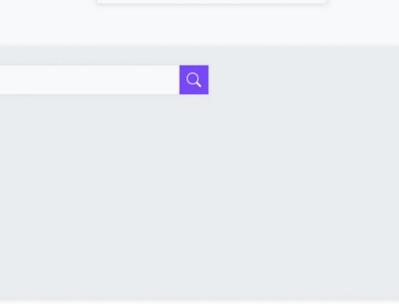
Filter All Events

1x123456789

Initial Tokenization ••• Yesterday at 12:33 5x12345a067e8987b6543ho977 921453 52.251874, 4.0970427 Document Type: Coffee Show More

Tokenizait	on Approved
Time:	Today at 15:15
Tokenizer:	5x12345a067e8987b6543ho977 921453
Buyer	8x392p5804th03468e707587n8 07060w87e
Seller	5x12387b23597hobo2735t97sh2 39872t49
	Show More







Summarizing

Coffee bean

- Goes from berries to coffee bags with green coffee
- Gains value

Product NFT

- Tracks product transformations
- A digital copy of (a collection) coffeebeans

Risk model

- Tracks loss given default
- Connects the product flow with financial world





Where are we at?

Finalizing phase 1

- A demo for proof of concept to be shown in June
- Experiments in preparation for Q4

Defining phase 2

- Risk model mechanics under development
- Blockchain connection & functionalities mechanics finalized for PoC

More use cases to be worked on soon, in production tests to be done in 2023





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