1. Problems in textile supply chains and blockchain's solutions

PROBLEM	BLOCKCHAIN	BENEFIT
Centralized database	Encrypted & distributed database	High level security
Falsification	Immutable records	Tamper-proof
Little Tracking	Improved Tracking	**Full Traceability**
Manual record keeping	Smart contract automation	Disintermediation
Data silos	Interoperability	**Data transparency**
Unbalanced Stakeholder interests	Tokens on protocol level	Stakeholder incentivation
Unbalanced participation in the value creation. Lack of sustainability. Fragmented supply chain	Tokens on ecosystem level	Inclusion, impact projects, Social trainings, microsavings, closing the loop

ASTRATUM

1. Problems in textile supply chains and blockchain's solutions

Cotton   Ginner   Spinning   Dyeing   Weaving   Assembly   Wholesale   Retailer   Consumer

Minimum transparency (supply chain visibility) based on knowing B2B relationships

Full traceability based on tracking production lots
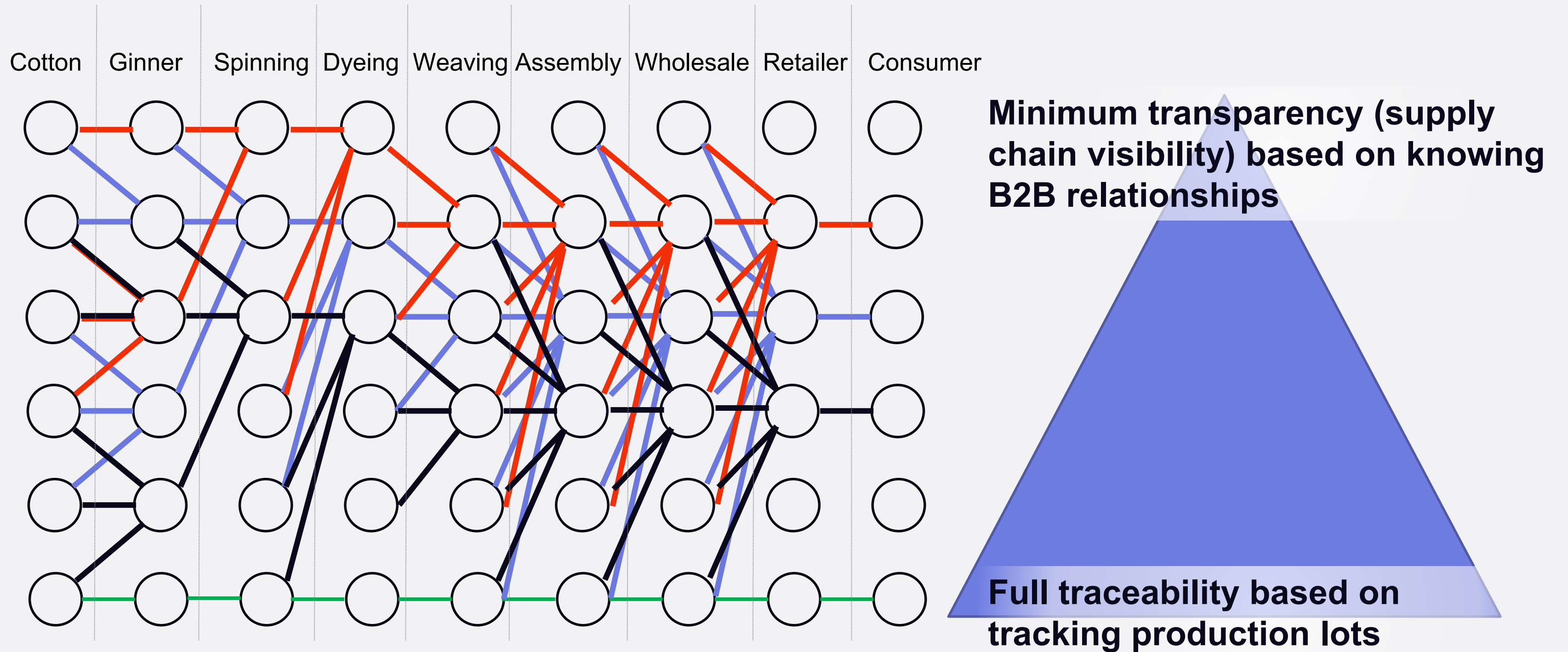
High amount of standards at different stages of production for mixed fibers and different materials

2. Blockchain Technology
Layered infrastructure enables socio-economic models

Customers Dapp Enterprises Dapp NGOs

App as interface between system and stakeholders

Cryptoeconomics Token Economy Design and Rules

Layer	
3. Tokens	- Monetization - Incentivation
2. Smart Contracts	- Process automation - Fulfillment guarantor
1. Ledger	- Immutable data - Outsourced infrastructure

ASTRATUM
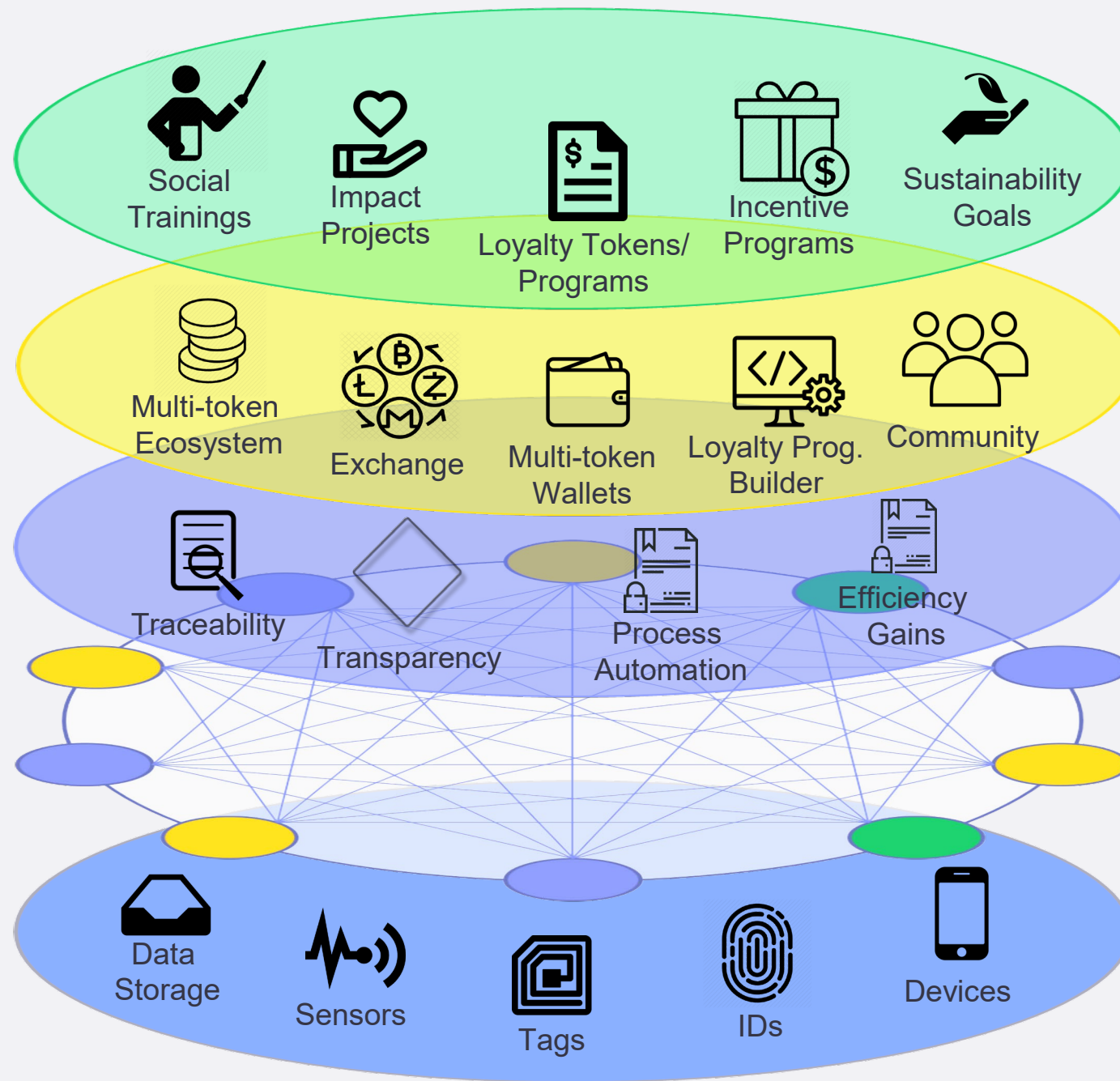
Socio-economic layer

Functional layer

- Social Trainings
- Impact Projects
- Loyalty Tokens/Programs
- Incentive Programs
- Sustainability Goals
- Multi-token Ecosystem
- Exchange
- Multi-token Wallets
- Loyalty Prog. Builder
- Community
- Traceability
- Transparency
- Process Automation
- Efficiency Gains
- Data Storage
- Sensors
- Tags
- IDs
- Devices

Socio-economic layer
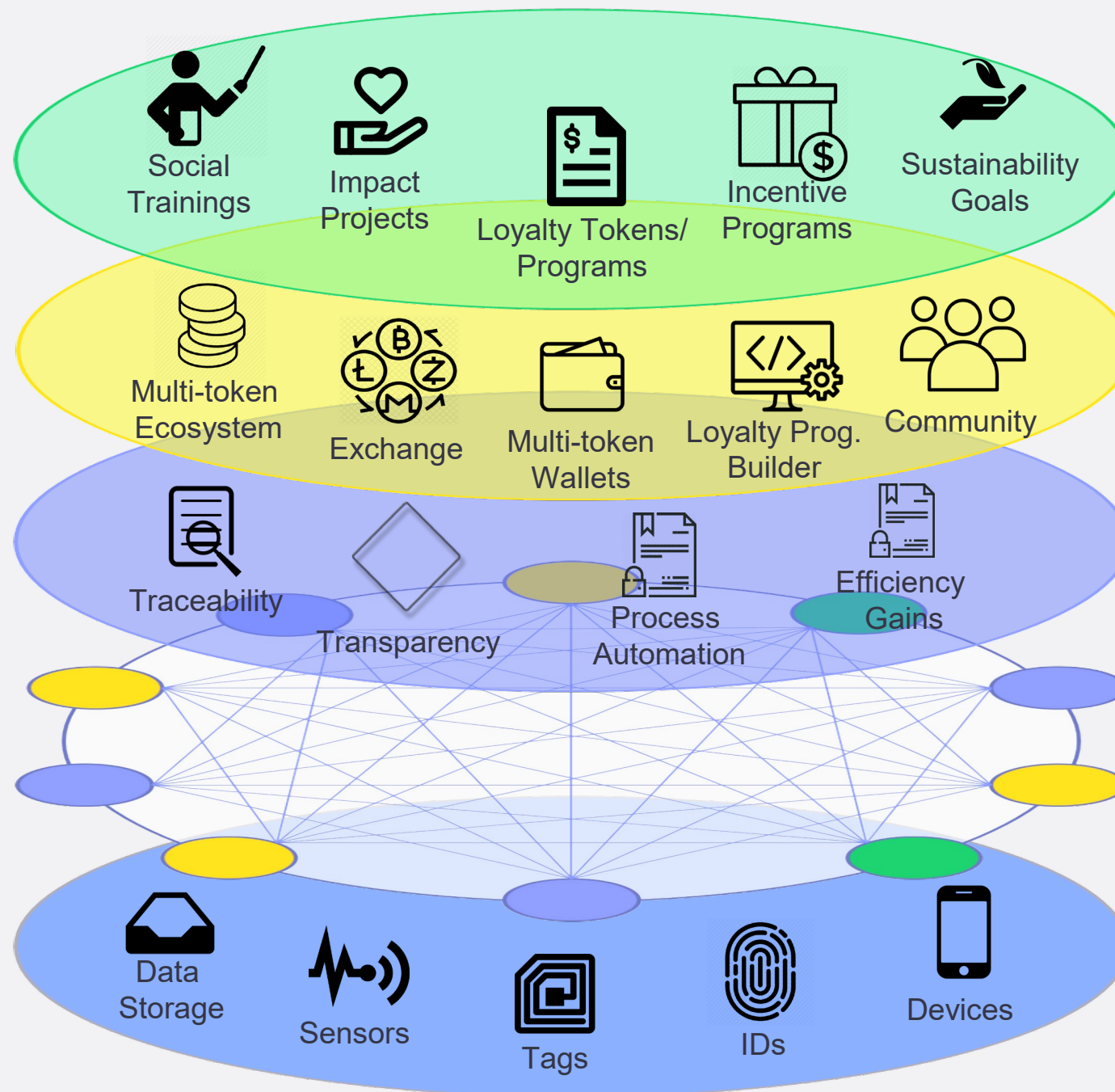
Socio-economic layer

- Multi-token ecosystem with built-in exchange.
- Access tokens acquired by enterprises. NGOs apply to receive these for free.
- Loyalty program builder powered by customizable loyalty tokens.
- Workers get rewarded for completing social trainings.
- Impact projects can fundraise in a traceable manner.
- Governed by the governance board which defines roadmap, partners and token distribution

ASTRATUM

TRACY

Welcome

A new platform providing transparency and sustainability for the garment and footwear ecosystem.

✓ Blockchain as immutable data layer

✓ Process automation via smart contracts

✓ Trace the product journey and verify its authenticity

✓ Network incentivation via token economics

Start

TRACY

Enterprise and Consumer view

Personal Profile

ID:
Dani Makda ✓ verified

Organization:
TexTrade Plc.

Wallet:
0x343dab9a79e6ec4990ba7fcd4ca
3c2f6fc3d6081

[Send tokens] [Receive tokens]

[**Convert tokens**]

Loyalty Points (brand tokens):

1500 B4F

300 KICK

10.9 LV

#loyalty token

TRACY

Enterprise

Validator

Capacity (delegation): 93%

Status: Online
Tx/s: 3234
Active nodes: 46/48
Current block: 65305
Fee: 2.5%
Payouts: bi-weekly

Validator address

0x5ed8cee6b63b1c6afce3ad7c9
2f4fd7e1b8f

Lot #2332 –37 EU

HB | RATTI | FACILITY WH | LORI SETA | FACILITY WH | DCs
(Coldrerio) | (Como) | (Cirimido) | (Como) | (Cirimido) | (Fildenstadt, Toronto, Savannah)

4 weeks | 1 week | 4 weeks | 1 week → LT

Order issued | Reception silk fabric | Shipment silk fabric | Reception finished ties | Shipment finished ties

Detailed Prod. Journey

Marketplace

Certification

Transport and Logistics

TRACY

Product Journey

Product Information

T-Shirt - Black
100 % Cotton
Style"Metallic optics"- 50319858, Black

Origin

Made in: Morrovalle, Italy

Made with

100 % Cotton

Certification

on Product
Chamical Test on Cotton
Certified by UL Laboratory

- Independent Validators
- Brand Validators
- Supplier Validators
- Material/Prod. flows
- Payment flows

TRACY

Sustainability and Impact view

TRACY
Personal Profile

ID:
Dani Makda   ✓ verified

Organization:
TexTrade Plc.

Wallet:
0x343dab9a79e6ec4990ba7fcd4ca3c2f6fc3d6081

[Send tokens]   [Receive tokens]

[**Convert tokens**]

Loyalty Points (brand tokens):
1500 B4F
300 KICK
10.9 LV

#inclusion

TRACY
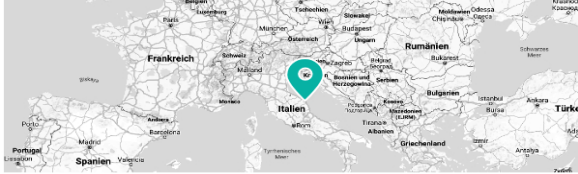#### Impact Projects

70%
€ 16,688   **€ 23,840**

Project:
Increasing security of Ethiopian female factory workers

Activities:
Providing with biometric hardware wallets for funds storage.

Sponsors:
gíz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

[**Support this Project**]

#impactinvesting

Closing the loop
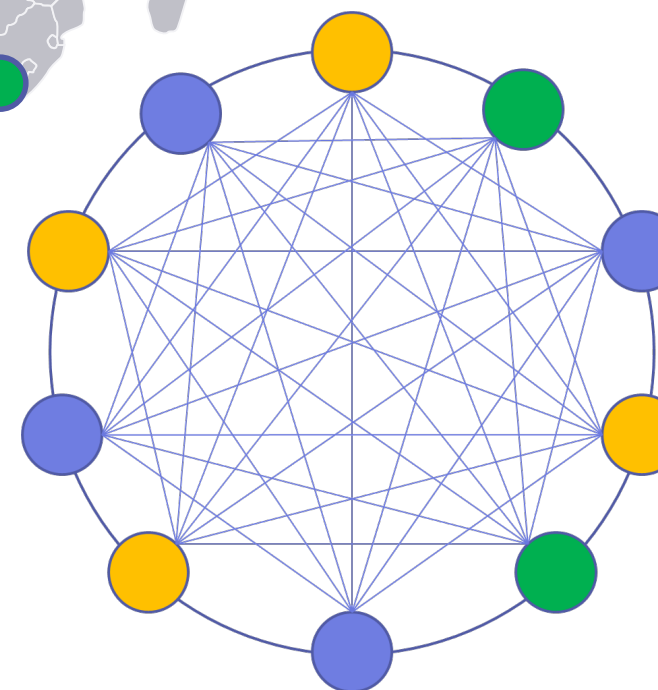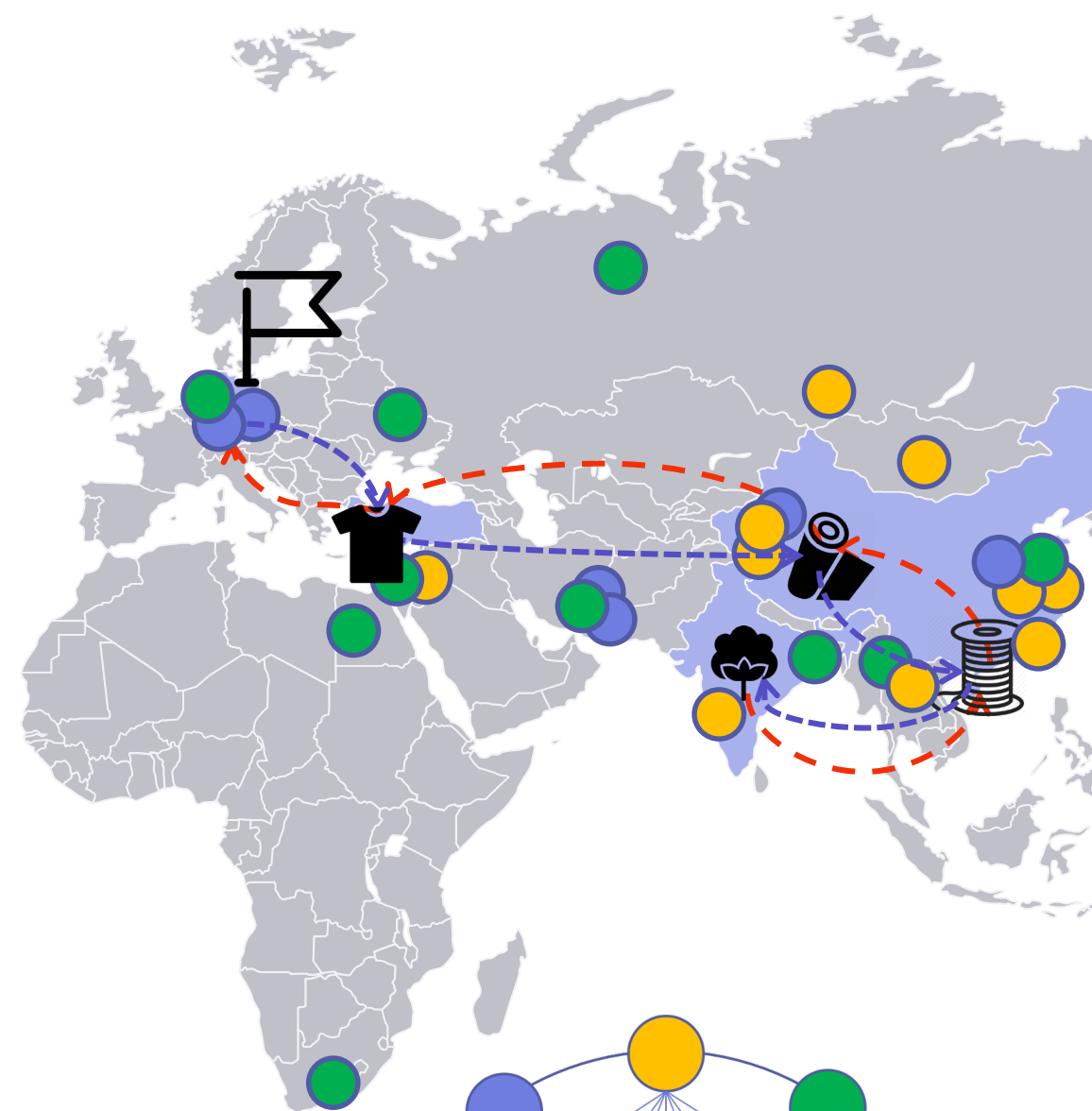
TRACY
Earn Tokens

60%

Activity:
Basic Work and safety training

Description:
Every employee of the factory in Addis Ababa has to complete the basic work safety training and receive certification.

Reward:
100 B4F

[**Participate**]

#socialtraining

- Independent Validators
- Brand Validators
- Supplier Validators
- - → Material/Prod. flows
- - → Payment flows

3. TRACY
Project phases

today

Phase 3. Scaling

- Socio-economic layer (smart contracts, tokens)
- Ecosystem
- Impact projects and social trainings

Phase 2. Pilot with Partners

- Functional layer (Blockchain, IDs, App)
- Tracking and Traceability
- Technology evaluation

Phase 1. Proof of Concept

- Co-creation with HUGO BOSS
- OECD – support with textile workgroup
- GIZ – exploration of use-cases
- Textilbündnis - workshop

LAYER

(t)

BENEFIT

CONCEPT DEVELOPED WITH ECO SYSTEM	TRANSPARENCY & TRACEABILITY	SUSTAINABILITY & PROCESS DEVELOPM

4. A possible pilot to validate the concept
Sustainable Egyptian Cotton

THE EGYPTIAN COTTON PROJECT
مشروع القطن المصري

BCI Better Cotton Initiative
www.bettercotton.org

Under the Framework of The Egyptian Cotton Project

Gladly announces

UNIDO and Better Cotton Initiative Signature Agreement
To Advance Sustainability of Egyptian Cotton

Top European brands and textile manufactures join hands with Egyptian cotton and textile industry stakeholders to start Better Cotton Standards System in Egypt

On Monday 19th November 2018

UNIDO UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION
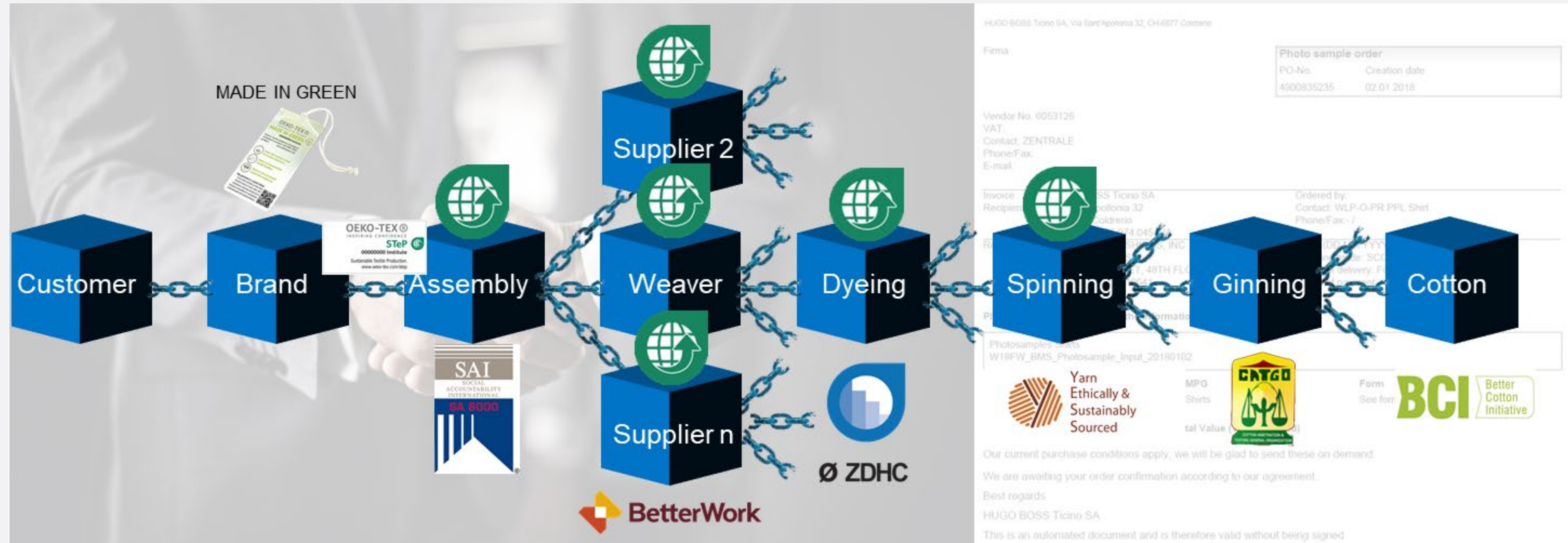
Ministry of Trade & Industry وزارة التجارة والصناعة

ITALIAN AGENCY FOR DEVELOPMENT COOPERATION

COTTON FORLIFE Initiative

- Start with 6'600 smallholder farmers (6 cooperatives) and than scaled up to 336'000 farmers

- Unique opportunity to combine a traceable and a transparent material flow

- Building on existing supply chains in Egypt and Europe

- Supported by UNIDO, Italian Agency for Development, Egypt Ministry of Trade and Industry, Better Cotton Initiative (BCI), Helvetas and COTTONFORLIFE

- Existing in loco support available as part of the farmer training with young adults at various Egyptian structures for cotton

- Elimination of extra costs for traceability like DNA tests or markers

- Easy upscaling due to existing collaboration with BCI and Helvetas.

ASTRATUM

4. A possible pilot to validate the concept
Sustainable Egyptian Cotton

Thank you