







The cotton blockchain pilot progress

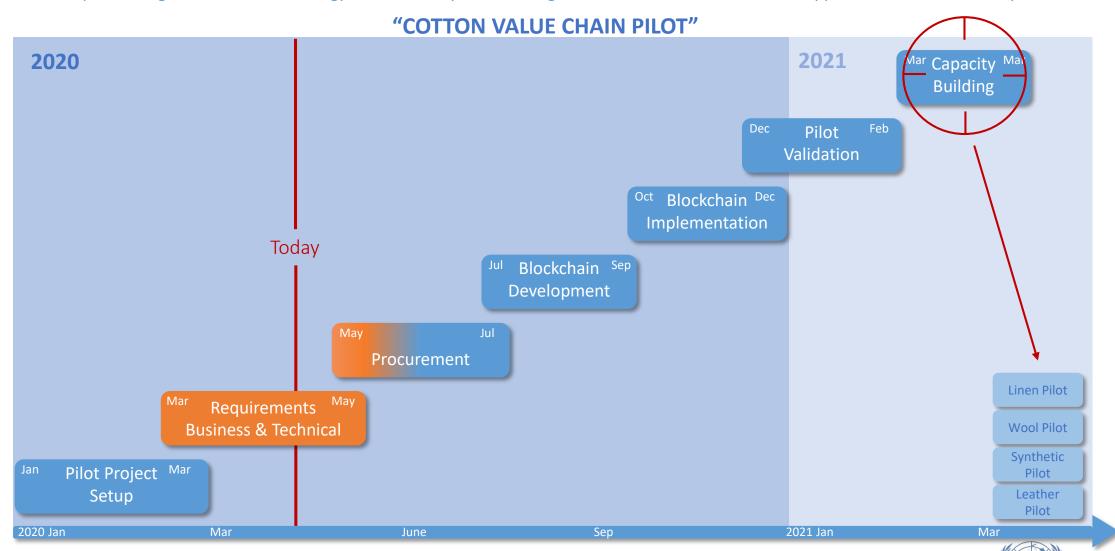


Multi-Stakeholder Policy Dialogue: Accelerating action for Sustainable and Circular Value Chains in Garment & Footwear



28 | 04 | 2020, WebEx-teleconference

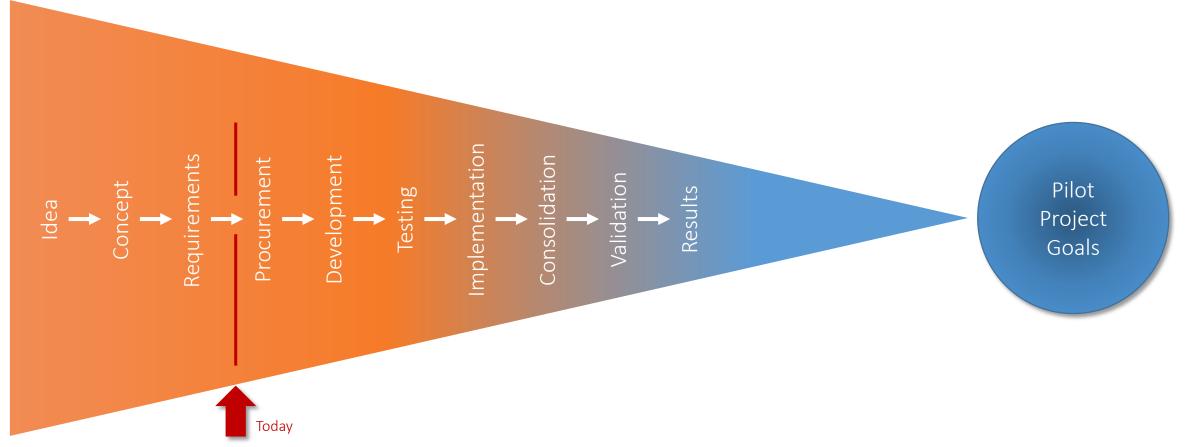




PROJECT EXECUTION APPROACH

Pilot #1 - Implementing a blockchain technology for traceability and due diligence in the cotton value chain in support of a circular economy

Progressive definition of needs and goals achievement







QUESTIONNAIRE

Scoping the pilot Lessons Learned

DEFINITION

Scope / Target
Stakeholders / Organization
Timeline

DATA VALUE CHAIN MODEL

Business process analysis for each supply chain stage
User stories





Stages Cotton field to Brands/Retailers

Blockchain characteristics
hybrid solution, open-source
technology allowing
permissioned but does not
exclude permissioned-less in
a later stage

Key actors

from farmers/cooperative,
through suppliers,
producers, brands/retailers
and as well auditing and
certification bodies

B2B Transactions
Compliance
claims via
Certifications

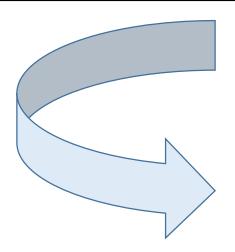




REQUIREMENTS FOR SUCCESS

(Pilot project document)

- Limited complexity
- Defined expert core team
- Short and clear communication
- Agile development
- Building on what exists
- Open-source



TARGETS / KPIs DEFINED BY THE EXPERTS

- 1.End-to-end traceability in line with relevant norms and standards for sustainability.
- **2.A transferable Pilot** that can be used in the whole Textile sector and for any kind of sustainability claim
- **3.Multi claim solution** able to validate a wide range of sustainability for specific supply chain partners but also for the whole value chain
- **4.** A stand-alone Pilot able to function independently and without a link to other projects or software
- 5. Technological effectiveness and reliability
- **6.**Good understanding of the **modelling required** to build a blockchain application
- 7. Good understanding of on-the-ground operating environments and constraints
- 8. Data collection points within the supply-chain are clearly identified
- **9.Testing of scenarios and hypotheses** during the roll out



The Value Chain and Data Model from Sub-Group 2 & 3 (Textile & Leather) - status

Done √

- Discussion on the principle processes for traceability and level of complexity to achieve
- Presentation of the Business Process Analysis Activity
- Presentation of the Generic Traceability Use Case Diagram

Work in Progress

- A high-level generic approach for traceability to identify common data model for traceability and transparency throughout the SC
- + Looking at the linkage between the products & sustainability criteria
- ☐ A detailed supply chain analysis for individual product types starting with cotton

WHY USER STORY

In software development and product management, a **user story** is an informal, natural language description of one or more features of a software system. User stories are often written from the perspective of an end user or user of a system. They are often recorded on index cards, on Post-it notes, or digitally in project management software



As a suser roles
so that soenents.

Explanatory note Business Process Analysis Activity and the Generic Traceability Model



BUSINESS AND TECHNICAL REQUIREMENTS IN THE TORS

Pilot #1 - Implementing a blockchain technology for traceability and due diligence in the cotton value chain in support of a circular economy

(TORs) TERMS OF REFERENCES AS BASIS FOR THE PROCUREMENT PHASE

(...)

1.7 Requirements

- 1.7.1 Business Concept
- 1.7.2 Technological Partner
- 1.7.3 Blockchain Solution
- 1.7.4 IT Security
- 1.7.5 Core Elements

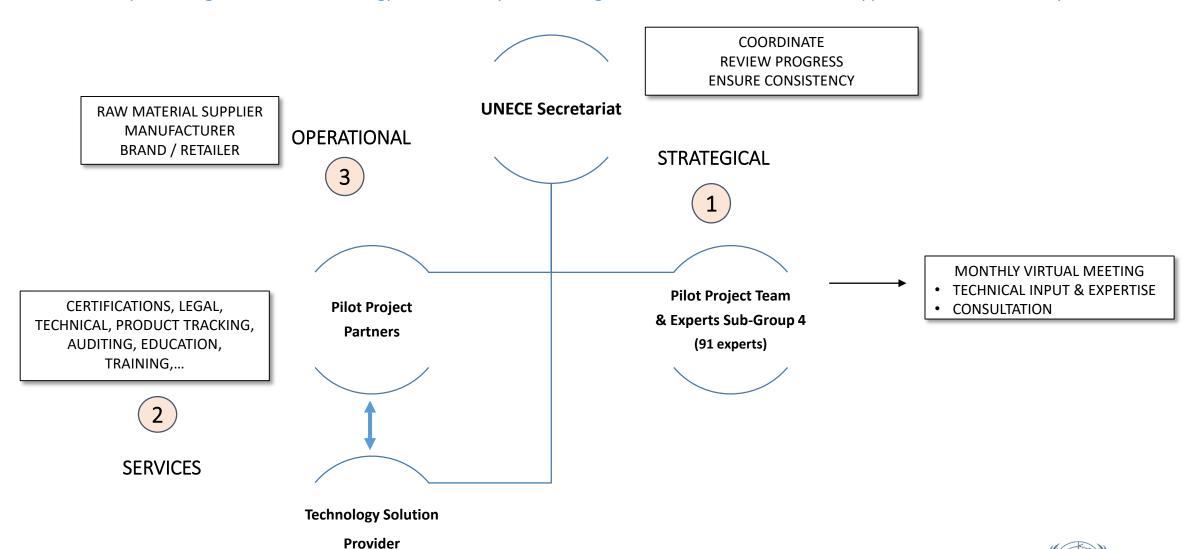
- → Value Chain and Data Model
- → Categories
- → List of general requirements
- → Cloud and Data Security
- → Partners, B2B transactions, Traceability



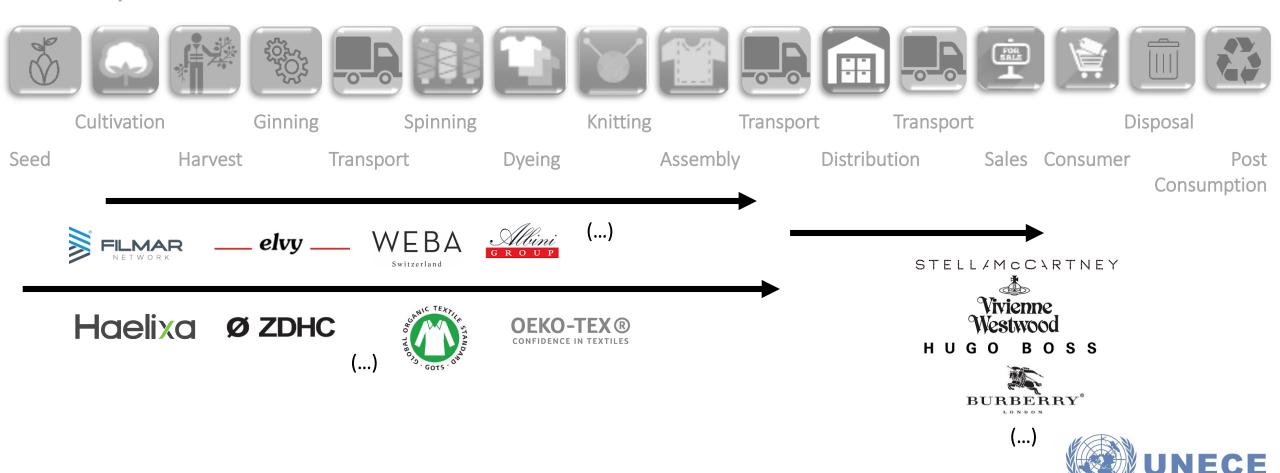


GOVERNANCE AND ORGANIZATION

Pilot #1 - Implementing a blockchain technology for traceability and due diligence in the cotton value chain in support of a circular economy



Example for a Cotton Value Chain

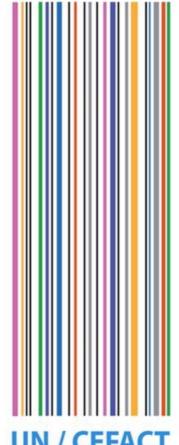






NEXT STEPS		
Secretariat Project team	TORs REVIEW Feasibility along the value chain Evaluation matrix	Ongoing
Secretariat Project team Piloting partners	BUSINESS PROCESS ANALYSIS & USER STORIES WITH PILOTING PARTNERS First round - Collection of inputs for all business processes of the supply chain Bilateral coordination Alignment with partners Second round	Ongoing Early May
Secretariat	PROCUREMENT PHASE Publication online of the RFP for the blockchain solution Tender process	Early May-July





UN / CEFACT



Thank you for your attention

maria-teresa.pisani@un.org olivia.chassot@un.org

