

Conference Call #5

Sub-group 4
Pilots and capacity-building activities



Cotton blockchain pilot





Pilot core team, Andrea Redaelli and secretariat

AGENDA – Wednesday 3 June 2020

- 15:30 –15:45 | 1. Update on the procurement and pilot project timeline Maria Teresa Pisani, Andrea Redaelli
- 15:45 16:15 | 2. User stories' definition as part of the Business Process Analysis: milestones Andrea Redaelli
- 16:15–16:30 | 3. Elements of the communication plan Maria Teresa Pisani
- 16:30-16:45 | 4. Follow-up to Virtual Policy Dialogue April Experts feedbacks Olivia Chassot
- 16:45–17:00 | Next steps and experts' subgroup input

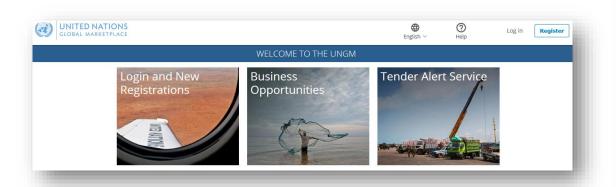
 Maria Teresa Pisani

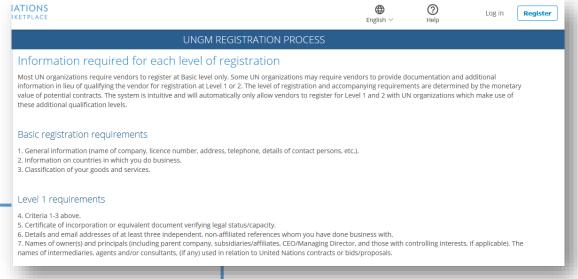
Background documents

- Project document for a pilot on blockchain for traceability and due diligence in the cotton value chain and progress report (draft April 2020)
- Minutes of Virtual conference #4 meeting 25.03.2020
- Report of Virtual Policy Dialogue (27-28 April 2020)



1. Update on the procurement and pilot project timeline





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Secretariat procurement procedure

Status: completed

• UNOG procurement posting on <u>United Nations Global Marketplace</u>

Status: upcoming

TECHNOLOGY-SOLUTION PROVIDERS

<u>Register</u> on United Nations Global Marketplace

Status: ongoing

• Notification from the secretariat when procurement action is posted

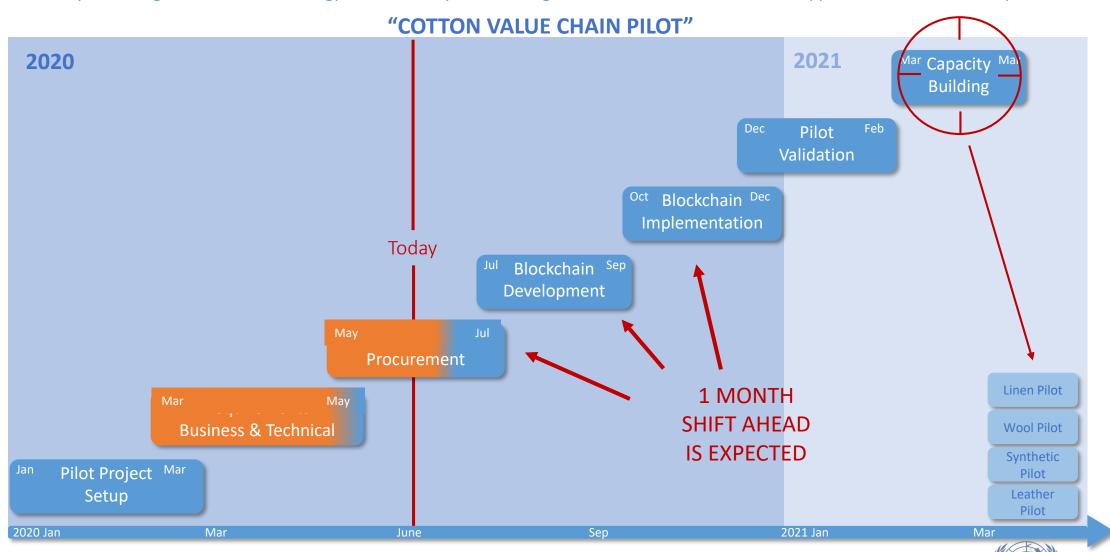
Procurement time frame:

- Approx. 2 weeks before the launch of the call
- Approx. 2 weeks to receive quotations
- Approx. 1-1.5 week for evaluation
- 1 week for finalizing the PO etc.



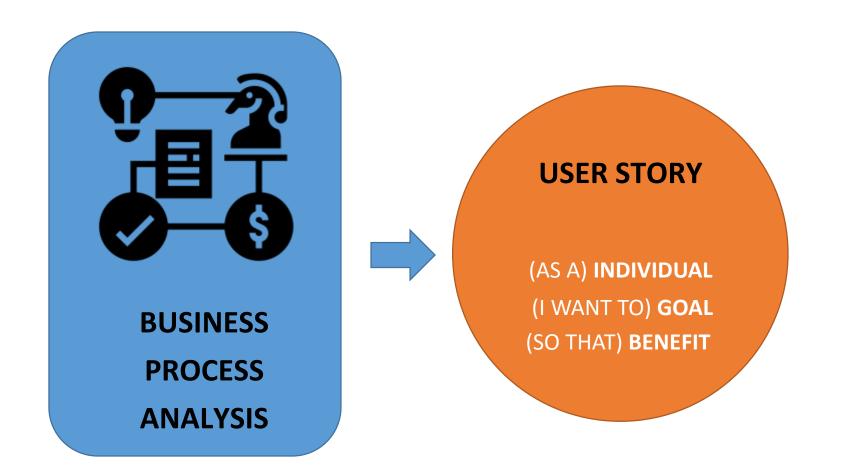


1. Update on the procurement and pilot project timeline



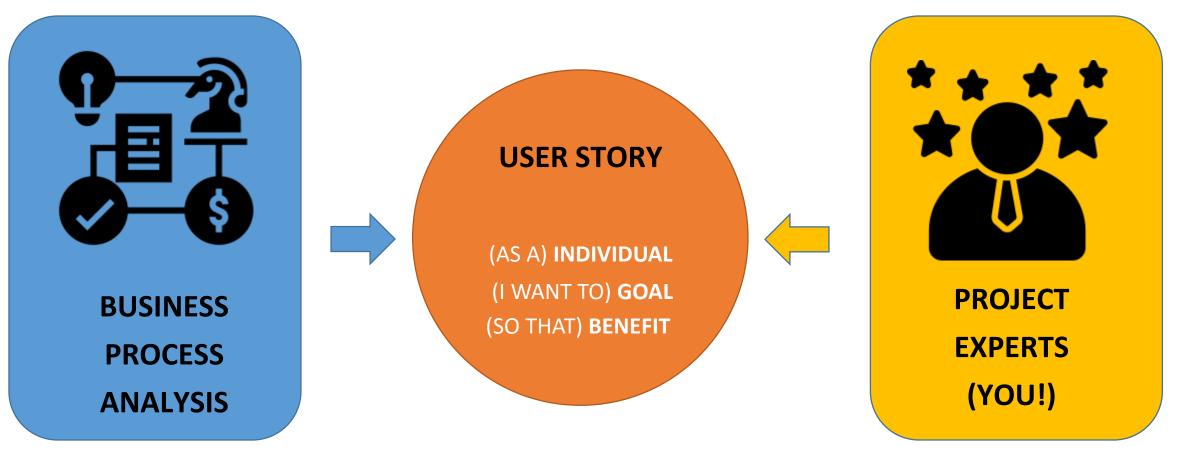








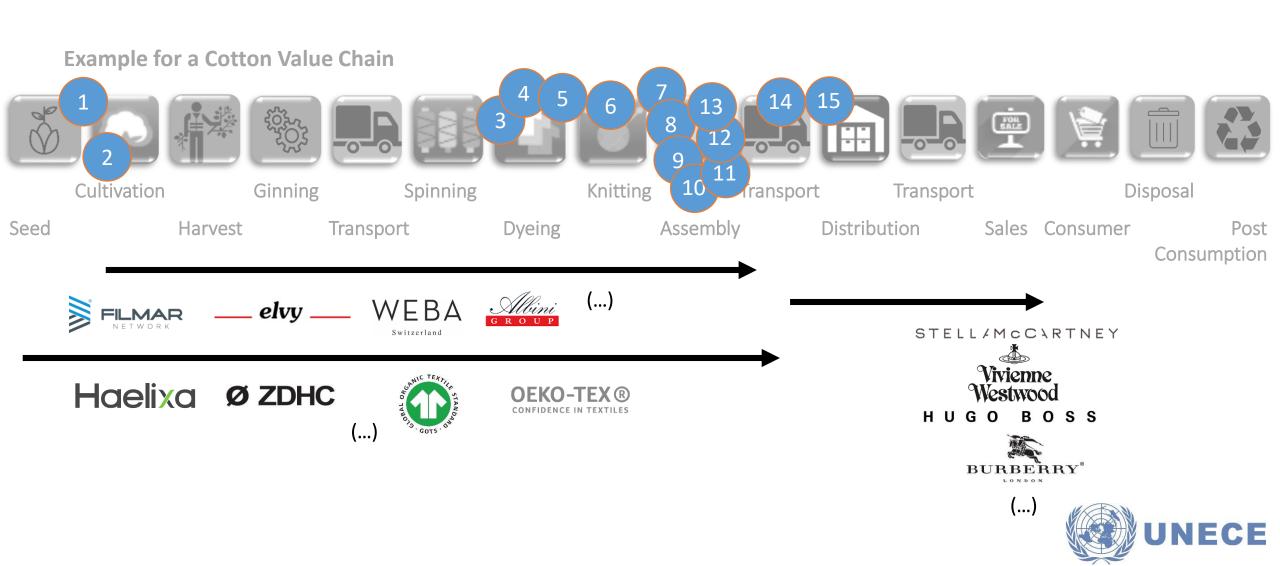








2. User stories' definition as part of the Business Process Analysis: milestones



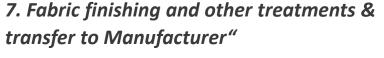


2. User story – Business Process Analysis (12 BPA on going)

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

1. Planting and Cultivation of Cotton





9. Product Enoblement and Packaging and



transfer to "retailer"

2. Cotton Harvest, Identification & transfer from Farmer to Ginner



8. Garment or Product Production and transfer to Enoblement



3. Ginning & transfer to Spinner

Weaver √ + Chemicals 📆



4. Spinning and transfer to Weaver





5. Bleaching, dyeing, washing & transfer to



for Sale €<u>}</u>



6. Weaving & transfer to Fabric Finisher(s) √



11. Consumption and Disposal





€ € €

₹<u>}</u>}







- No Hazardous Chemicals during farming

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







FARMER

TO CLAIM THE CHEMICAL INVENTORY LIST OF FERTILIZER SUPPLIER

THE COTTON PRODUCT COMPLIANCE CONFIRMS WITH ZDHC MRSL AND AVOID THE USE OF HAZARDOUS CHEMICALS IN THE NEXT PROCESS STEPS.

(AS A)
INDIVIDUAL

(I WANT TO)
GOAL











FARMER

TO PROVIDE AN INCHECK REPORT OF MY CHEMICAL INVENTORY LIST (CIL),

I CAN PROOF MY CHEMICAL MANAGEMENT PERFORMANCE

(AS A)
INDIVIDUAL

(I WANT TO) GOAL





2. User story 4 - Saving environmental resources during Transformation

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







WORKERS

TO SAVE DYEING STUFF **AND WATER**

REDUCE ENVIRONMENTAL RISK (WATER POLLUTION)

(AS A) **INDIVIDUAL** (I WANT TO) **GOAL**









LABORATORY TECHNICIAN

1

?

(AS A)
INDIVIDUAL

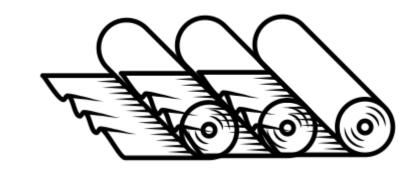
(I WANT TO) GOAL











WAREHOUSE MANAGER TO HAVE AN ACCURATE PICTURE OF
EXISTING INVENTORY AND
COMMUNICATE DIRECTLY WITH THE
BRAND THE LEVEL OF STOCK
AUTOMATICALLY VIA SYSTEM

THE FACTORY FACILITY IS
ADEQUATELY SUPPLIED WITH FABRICS
AND THE FABRIC TEAM IS PROMPTLY
INFORMED IF ADDITIONAL ORDERS
ARE NEEDED

(AS A)
INDIVIDUAL

(I WANT TO) GOAL











PRODUCT
DEVELOPER/
PRODUCTION
MANAGER

THE CUTTING ORDER TO BE
ASSEMBLED ON TIME FOLLOWING
THE SCHEDULE AND TO BE ADVISED
ON STATUS OF THE ORDER

I CAN BE ADVISED EARLY ON ANY EXPECTED DELAYS

(AS A)
INDIVIDUAL

(I WANT THAT)
GOAL











PRODUCT
DEVELOPER/
PRODUCTION
MANAGER

THE ENOBLEMENT ORDER TO BE PERFORMED ON TIME FOLLOWING THE SCHEDULE AND TO BE ADVISED ON STATUS OF THE ORDER

I CAN BE ADVISED EARLY ON ANY EXPECTED DELAYS

(AS A)
INDIVIDUAL

(I WANT) GOAL











PRODUCT
DEVELOPER/
PRODUCTION
MANAGER

THE SAMPLE AND PRODUCTION
ORDER TO BE FINISHED ON TIME
FOLLOWING THE SCHEDULE AND TO
BE ADVISED ON STATUS OF THE ORDER

I CAN BE ADVISED EARLY ON ANY EXPECTED DELAYS

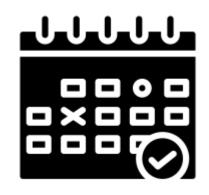
(AS A)
INDIVIDUAL

(I WANT THAT)
GOAL











PRODUCT
DEVELOPER/
PRODUCTION
MANAGER

THE ENOBLEMENT ORDER TO BE PERFORMED ON TIME FOLLOWING THE SCHEDULE AND TO BE ADVISED ON STATUS OF THE ORDER

I CAN BE ADVISED EARLY ON ANY EXPECTED DELAYS

(AS A)
INDIVIDUAL

(I WANT) GOAL











QUALITY CONTROLLER

ASSESS AS EARLY AS POSSIBLE DEFECTS DURING THE PRODUCTION PHASES

AND REDUCE THE LEVEL OF DEFECTS ON FINAL PRODUCTS

(AS A)
INDIVIDUAL

(I WANT TO)
GOAL









PRODUCT DEVELOPER/ PRODUCTION MANAGER

THE MANUFACTURER TO SPEAK MY OWN CODING LANGUAGE

THERE IS NO DISCREPANCY ON DOCUMENTS OR CONFUSION DURING PURCHASE ORDERS AND DEVELOPMENTS

(AS A)
INDIVIDUAL

(I WANT) GOAL









LOGISTIC MANAGER

GOODS TO ARRIVE PROPERLY PACKED AND WITH THE CORRECT DOCUMENTS AND COMPLETE INFORMATION AT WAREHOUSE THE INCOMING IS SMOOTH AND QUICK

(AS A)
INDIVIDUAL

(I WANT)

GOAL









CUSTOMER
SERVICE MANAGER

SHIPMENT OF UNDAMAGED GOODS
THAT MEET CUSTOMERS'
REQUIREMENTS AND THE DELIVERY
PLANNED WITH THE CUSTOMER

MY SERVICE IS EXCELLENT
AND I CAN OBTAIN THE
HIGHEST LEVEL OF CUSTOMER
SATISFACTION

(AS A)
INDIVIDUAL

(I WANT)

GOAL









(AS A)
INDIVIDUAL

(I WANT TO) GOAL



INDIVID

e cotton value chain in support of a circular economy



BILATERAL SESSIONS WITH EXPERTS WHO STORIES: DON'T MISS THE OPPORTUNITY MOTALITY OF THE OPPORTUNITY MISS THE WANT TO CONTRIBUTE WITH NEW USER

(A.



UNECE communication

Upcoming soon: dedicated webpage for pilots & capacity-building activities

 <u>News pieces</u> and tweets for each milestone of the pilot implementation phase on <u>UNECE webpage</u>

Partners communication: website and social medias

- Use of UNECE project logo, as soon as available
- Mention of participation in UNECE project
- Mention of the funding partner, European Commission
- Compliance with:
 - <u>UN/CEFACT Code of Conduct</u>
 - <u>Draft revised mandate, terms of reference</u>
 and procedures for UN/CEFACT
- Call for proposal Pilot #1 visual Identity (inkind)

3. ELEMENTS OF THE COMMUNICATION PLAN

Transparent value chains can help make the fashion industry's post-COVID recovery more resilient and sustainable

Accelerating the transition to more sustainable an transparent global value chains needs to be at th heart of the fashion industry's response to the sever socio-economic challenges and supply chail disruptions caused by the ongoing COVID-1 pandemic.



current orders dropped by 31 per cent on average. And in Bangladesh, where the garment industry accounts for more than 80 per cent of the country's annual exports, the crisis is putting at risk about 4 million workers, mostly women, with one million garment workers having already lost their jobs.

Embedding due diligence and sustainability considerations into COVID-19 crisis management is a chance to switch to more responsible business models. Transparency and traceability of the value chain can sustain such efforts and translate into value that will support the industry's recovery, bringing long-term benefits for their balance sheets and productivity, linked to factors such as: 1. Investors' increasing interest in a company's environmental, social performance and governance; 2. The need to manage legal risks, due to e.g. cancellation of orders, unilateral imposition of pay-cuts, and inadequate health and safety measures on the workplace; 3. The capacity to manage reputational risks vis a vis investors and consumers; 4. Access to emergency relief programs, remedy mechanisms and funding.







UNECE @UNECE · Apr 28

#Cotton contributes to livelihoods of 350m people but also 6% of #pesticide use. 1 1 uses 2,700 L of water ↑

@UNECE piloting partners join forces to implement #blockchain solution for #sustainable+#circulareconomy cotton value chains through enhanced #traceability+#transparency











4. Follow-up to Virtual Policy Dialogue April: Experts Feed-back



Doc 07 Pilot project document

- 1. Right technology: consider other open-source solutions available
- 2. Governance mechanisms to foster confidence, ensure data quality, accuracy and system reliability through combination of contractual obligations and "classical" data security mechanisms responding to the needs and incentives of the actors in the supply chain. Governance and maintenance of the permissioned blockchain
- **3. End-to-end traceability of a product type**: clarify the level (e.g. batch) and compliance problems that can occur. e.g. Art. 33 REACH an ARt. 9(1) Waste Framework Directive requires a reporting system on the article level
- **4. Validation of the authenticity of a certificate** How do you validate the authenticity of a certificate if it is not verified against the scheme owners be it the national or the voluntary standards?
- **5. POC scalability**: the solution will be scalable if fully adopted by the certification schemes



Enhancing Transparency and Traceability of Sustainable Value Chains in the Garment and Footweer Sector

Pilot project document

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

Version of 20-04-2020

Background

Improving transparency and traceability has become a priority for the garment and footwear industry in order to increase its ability to manage its value chains more effectively; identify, mitigate and address labour and human rights and sustainability impacts; combat counterfeits; and manage reputational risks.

Today, many companies have a limited view of the network of business partners within their value chain. Most can identify and track their immediate (tier 1) suppliers, but information is often lost about the suppliers of their suppliers — a UNECE study demonstrates that only around 34% of fashion companies implement tracking and tracing in their supply chain – and most of these reach Tier 1 only (UNECE study, 2019).

Nonetheless, the implementation of traceability in supply chains is a complex issue because it requires the collaboration of all stakeholders and the deployment of shared, reliable technical solutions. The global fragmentation of production is a key feature of the fashion industry which is further complicated by the prevalence of subcontracting and informal work, especially in lower supplier tiers. As a result, if has been difficult to provide consumers with information about product provenance.

Advanced technologies (distributed ledgers such as blockchains, Al, machine learning, Internet of Things) can enable fashion industry actors to improve supply chain transparency across a variety of ecosystems by making available all information about product origin in a transparent and trustworthy manner by notably assigning a digital identity to the product.

Cotton is a key sector for the textile and garment industry because it is the world's most widely-used natural fiber, with an approximate yearly global production of 20 million metric tonnes (mt). It is a vital industry and a critical source of economic growth which contributes to the livelihoods of more than 350 million people, mainly smallholder farmers in developing countries. Nonetheless, cotton

Source: Background note UNECE 2017 / Textile Exchange, 2025 Sustainable Cotton Challenge Finst Annual Report 2016
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Next steps and experts' subgroup input

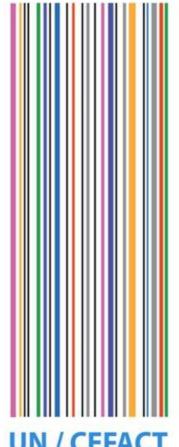
NEXT STEPS	
PROCUREMENT PHASE Publication online of the RFP for the blockchain solution Tender process	Early June
BUSINESS PROCESS ANALYSIS (BPA) Collection of inputs for all 12 business processes of the value chain	Ongoing
USER STORIES DEFINITION with piloting partners for the technology-solution provider	Ongoing to be completed end by the end of June
WORKSHOP W/ Technology-solution provider Definition of the business & technical requirements based on collection of BPA and users' stories.	Early August











UN / CEFACT

Thank you for your attention

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