

United Nations Conference on Trade and Development

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Harnessing the potential of Blockchain Technology for Sustainability and Transparency in Cotton Value Chains

By

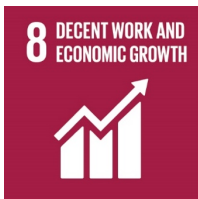
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Harnessing the potential of Blockchain Technology for Sustainability and Transparency in Cotton Value Chains

Item 4: Greater Transparency in Commodity Markets
(b) Transparency initiatives in commodity markets





Global level

- **UN** 2030 Agenda for Sustainable Development – UN Guiding Principles on Business and Human Rights
- **UN** Global Compact
- **ILO** Declaration on Fundamental Principles and Rights at Work and ILO Conventions on Labour Standards, Better Work
- **OECD** Guidelines for Multinational Enterprises - Guidelines for Due Diligence in Garment & Footwear

EU level

- **Green Deal**
- **Circular Economy Action Plan**
- Mandatory **Human Rights and Environmental Due Diligence** initiative
- Revision of **Non-Financial Reporting Directive**
- **Textile Strategy**
- **European Parliament** Resolution on the EU Flagship Initiative on the Garment Sector
- **European Economic and Social Committee (EESC)** Towards an EU Strategy for Sustainable Consumption

National level

- **France** Law on duty of vigilance by multinational companies
- **The Netherlands** Dutch Agreement on Sustainable Textile and
- **Germany** preparing/implementing due diligence legislation applying to the sector
- **UK** Modern Slavery Act
- **US** Textile Product Identification Act
- **Australia** Modern Slavery Act
- **India** Indian Companies Act

How can economic operators along the supply chain implement these policies practically & effectively?

Minimizing risks and costs, complying to voluntary and regulatory requirements, responding to social demand....

Calls to Action Post-COVID:

- **ILO COVID-19:** Action in the Global Garment Industry
- **WFF** Open Letter
- Global Social Partners Call to Action
- 26 companies, business associations, and initiatives make joint call for EU mandatory human rights & environmental due diligence



Enhancing Transparency and Traceability for Sustainable Value Chains in the Garment and Footwear Industry



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O1. POLICY DIALOGUE PLATFORM, POLICY RECOMMENDATION & CALL TO ACTION

Why and how to enable and scale-up traceability systems?



O2. TRACEABILITY STANDARD & IMPLEMENTATION GUIDELINES

What to trace and how to trace it in value chains?



O3. BLOCKCHAIN PILOT SOLUTIONS FOR SPECIFIC FIBERS AND MATERIALS

How to anchor claims to products? For Cotton/Leather/Synthetic/Wool&Cashmere




In partnership with




Enhancing Transparency and Traceability for Sustainable Value Chains in the Garment and Footwear Industry


RECOMMENDATIONS

Policy Actions, Norms & Standards


- 
- a) Harmonized policies and regulations for **policy coherence**
 - b) **Minimum levels of traceability**, from raw materials sourcing, for products, processes and facilities
 - c) Companies' efforts to embrace **higher transparency**, e.g. names/addresses of suppliers' factories, and sharing of info on sustainability performance
 - d) reduced implementation burden through use of **international standards** and use of **existing data**

Incentives

- 
- e) Economic and fiscal
 - f) **Non financial**: sustainable **procurement**, fast **customs clearance**, specialized **training**, IT investment and **technology transfer**, **non-financial reporting requirements**, **public visibility**, **peer learning**



Research & Development: i. Sustainability/circularity production and consumption processes ii. Provenance and authenticity tracing solutions for products, iii. Increased products' lifespan iv. Sustainable material, v. **Recycling , reusing, redesigning**



Awareness and education: i. Informed choices, ii. Awareness of the **shared responsibility**, iii. Increase demand for sustainable materials, products, processes



Multi-stakeholder collaborative initiatives: i. Global open-source knowledge platform, ii. Multi-stakeholder **policy dialogues**, iii. **Pilot projects** for innovative approaches and **advanced technologies**

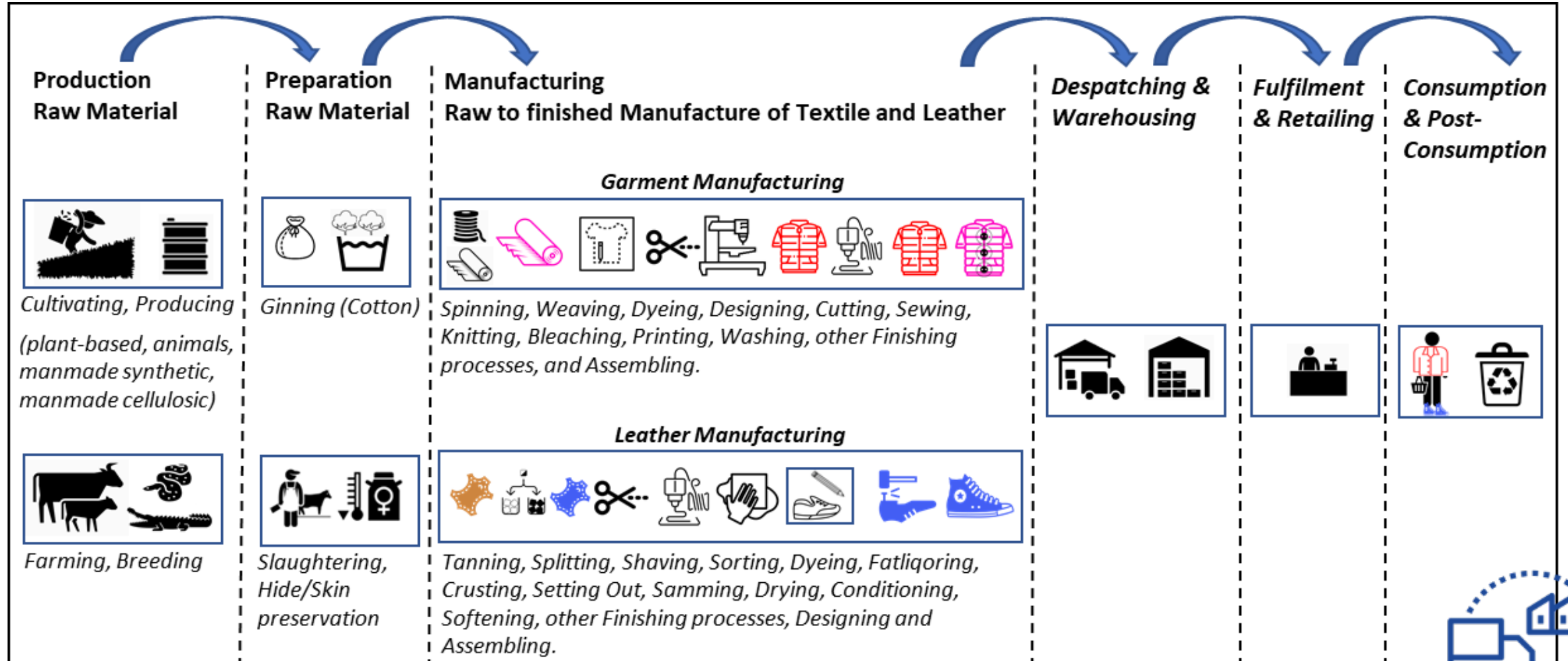
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From raw material production, through manufacturing and branding, to consumption and post-consumption

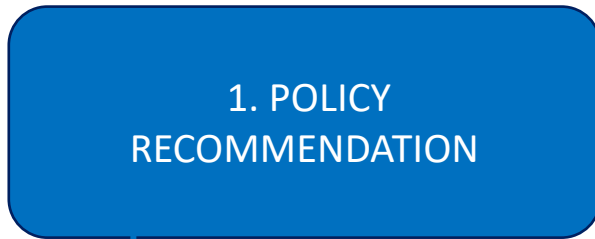


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The Pilot Project – The blockchain pilot’s main deliverables

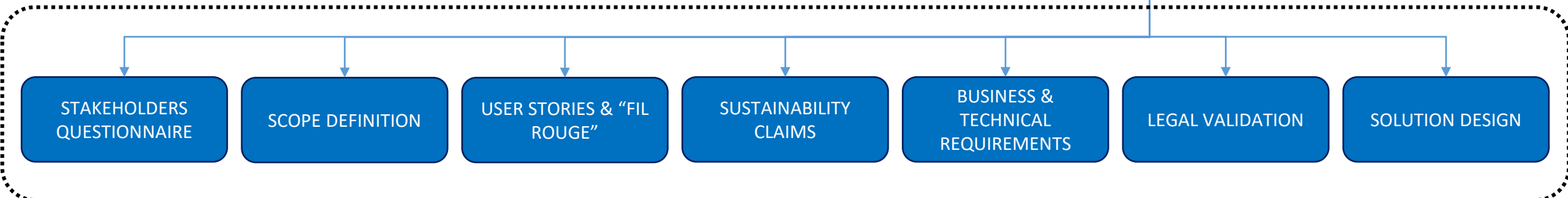
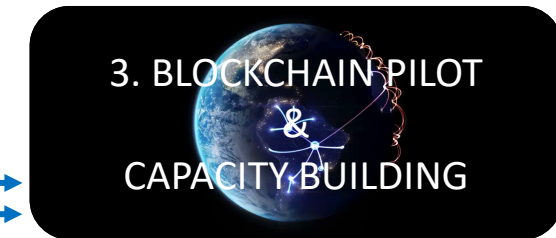
1. Proof of Concept (PoC) for a transparency and traceability blockchain-based system
2. Solution to disclose sustainability claims of all supply chain partners for textile and leather products
3. Brands, manufacturers, farmers and certifiers to test a blockchain-based system



- Framework
- Guidelines
- Action Plan



- Business Process Description
- Activity Diagrams
- Business Requirements Specifications
- Data Model



Pilot Concept to be implemented

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



UNECE-UN/CEFACT & Partners

- **22** pilot experts
- **2** brands
- **4** manufacturers/ **1** farmers' association
- **4** certification bodies
- **2** academia/think tank
- **1** DNA tracer



Where

- 5** countries
- Egypt
 - Germany
 - Switzerland
 - Italy
 - UK

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UNECE-UN/CEFACT International Framework Initiative

Policy coherence & wide-industry engagement

A standardised approach for an interoperable international standard

Transparency & Traceability for
+ Reliable **product information**
+Increased **accountability** on sustainability claims
+**Risk-management**
+Advancing **Responsible Consumption and Production**

Supporting role of **advanced technologies** e.g. Blockchain



**UN / CEFAC**

Thank You! Questions?

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Link to Project's webpage

<https://unece.org/trade/traceability-sustainable-garment-and-footwear>