



TextileExchange
Creating Material Change

Digital Innovations in Traceability

Webinar 1:

Blockchain: Myth vs. Relevance for the Textile Industry

20 July 2020

Creating Transparent Supply Chain

Amit Gautam

CEO & Founder

Textile Genesis



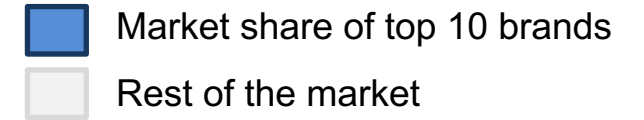
Creating transparent supply chains

Blockchain basics and
landscape

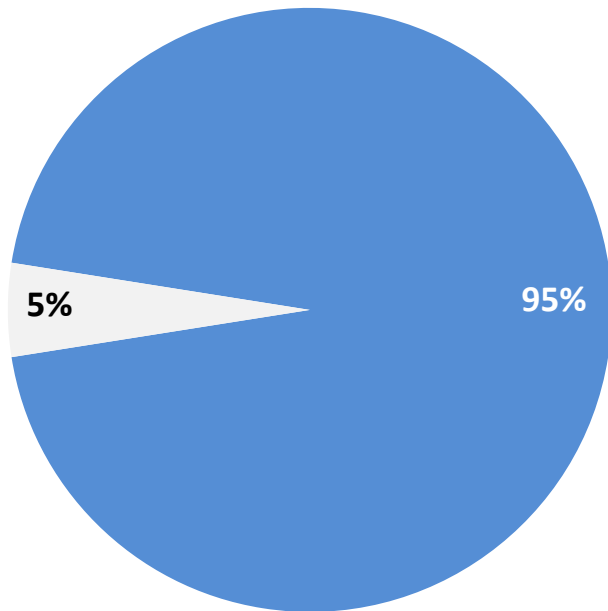
Confidential

Industry fragmentation a key indicator of lack of transparency...

Global market share - top 10 brands vs. rest of the market

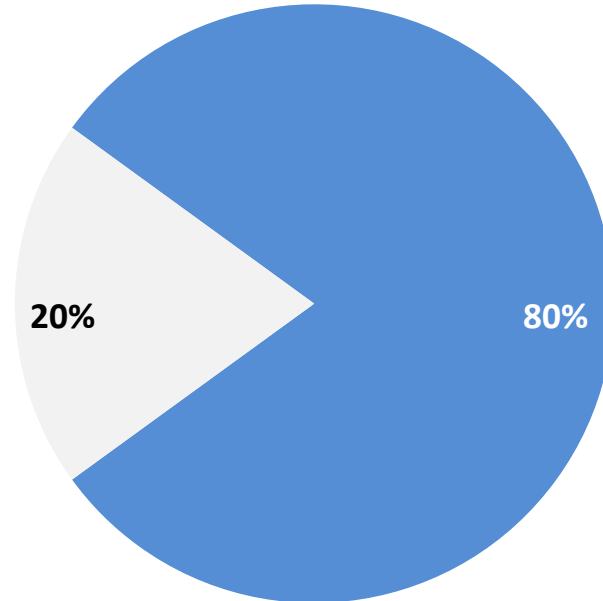


Consumer electronics



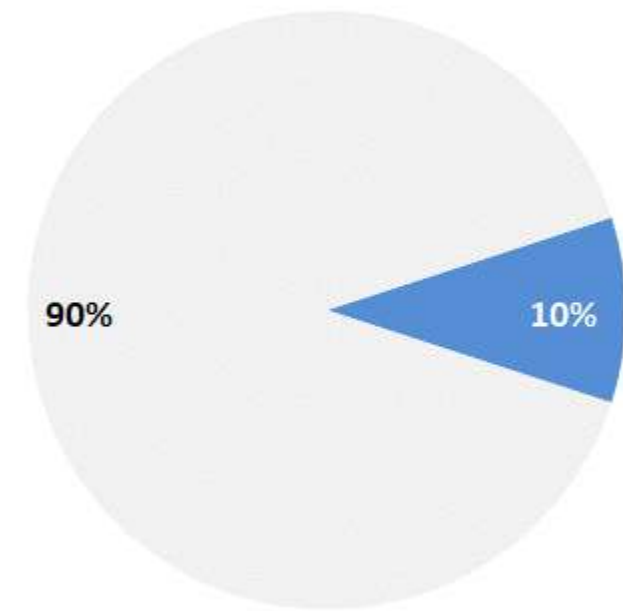
\$ 1.2 trillion¹

Automotive



\$ 2.2 trillion²

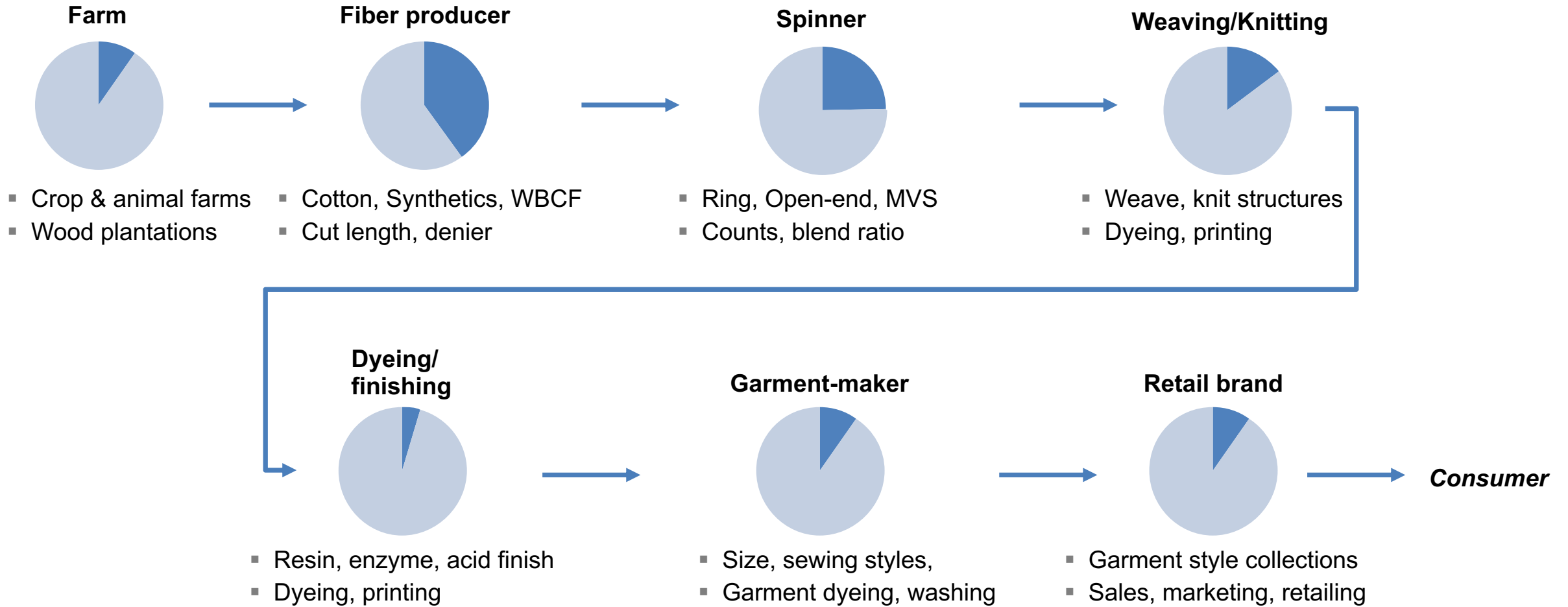
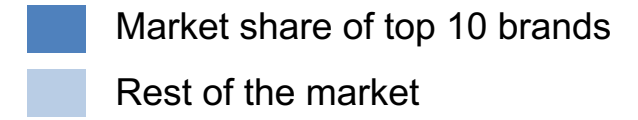
Fashion/Textile



\$ 2.4 trillion³

1. Consumer Electronics market, Zion market research
2. International Organization of Motor Vehicle Manufacturers (OICA)
3. State of Fashion 2017, McKinsey and Business of Fashion

Textile value chain is opaque to brands & retailers due to extremely long and complex value-chain



Blockchain technology can be used to address transparency

Why blockchain?

Description



Immutable database

- Designed for immutability to any alteration
- Transact in a secure, verifiable and transparent manner



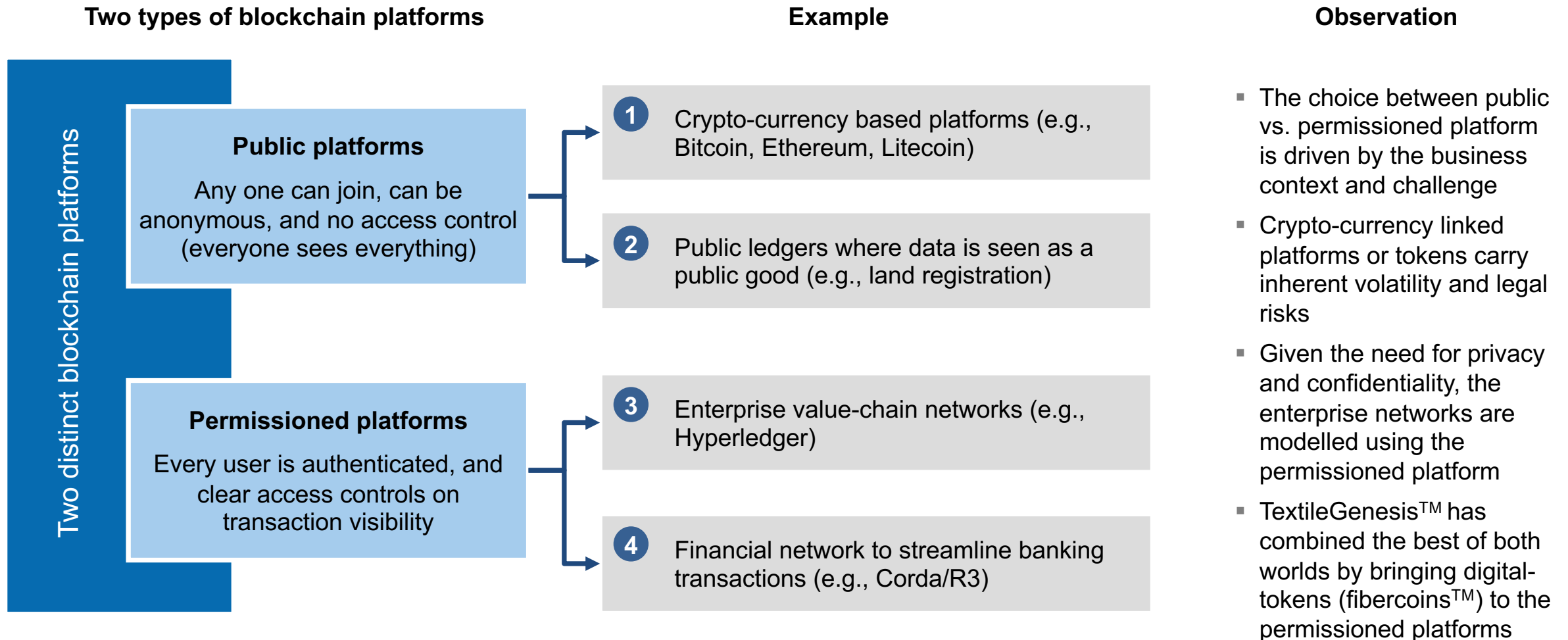
Designed for transactions mapping

- Transactions link through a chain of data blocks, resulting in chain-of-custody
- Secured multi-party platform across an industry value-chain

Digitizing assets

- Ability to digitize assets, using tokens/coins
- Creates new opportunities to unlock value (e.g., less counterfeiting, loyalty incentives)

At the most fundamental level, blockchain platforms can be classified as public or permissioned networks



Two key traceability challenges that require urgent attention



Authentication of the finished apparel product itself

- 10-15% of branded fashion products are counterfeited (e.g., apparel, shoes, leather bag)



Digital chain of custody for sustainable fibers in the finished product

- Up to 30% of all sustainable textile fibers (e.g., organic or recycled fibers) could be fake

Focus of TextileGenesis™ technology

A smart, blockchain-based, digital chain of custody should focus on five key design principles

Five metrics to measure success of a 'digital' chain of custody

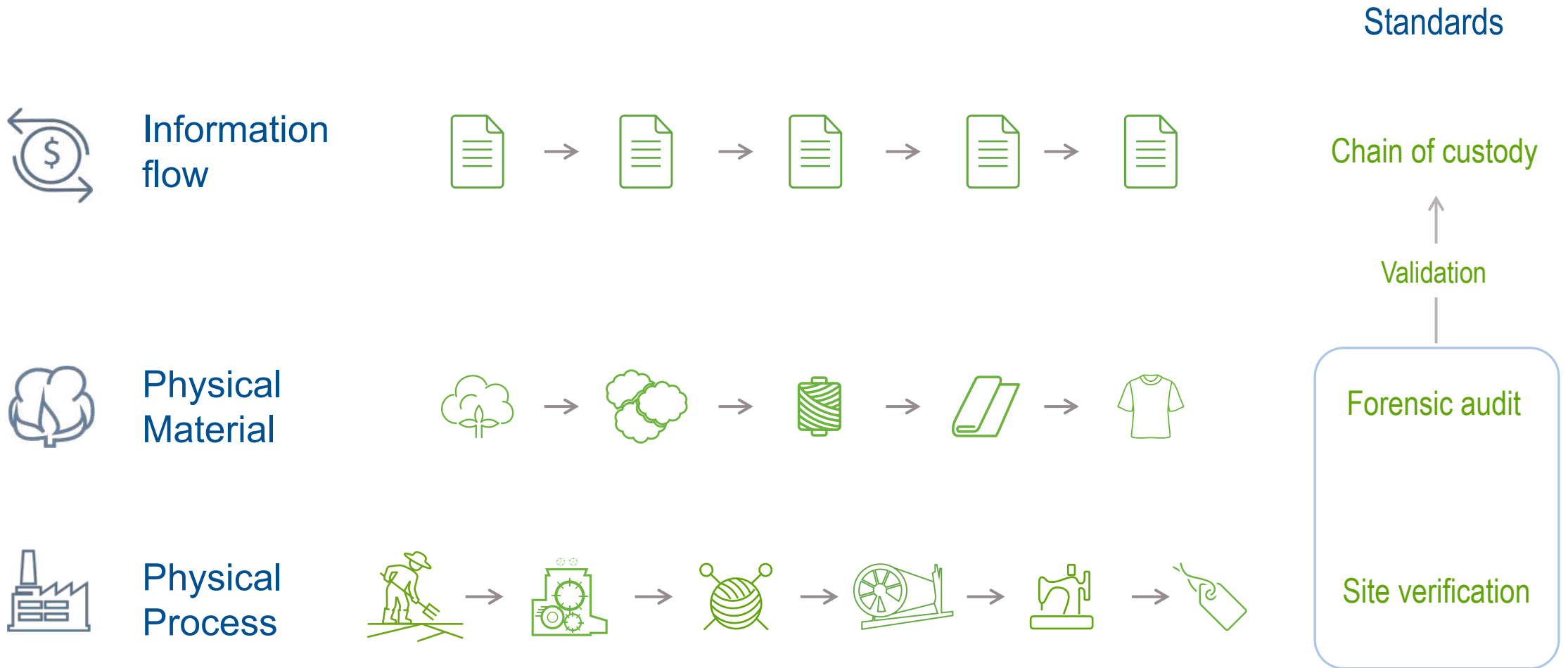
- ① **Industry-wide engagement** with leading brands, fiber producers, certification standards, and textile suppliers is fundamental to success of any traceability system
- ② **High system integrity by linking digital with physical** through “tokenization” of fibers at the source of origin, integration with fiber verification technologies & random audits
- ③ **Easy to use & deploy** on two dimensions: low training & IT requirements to on-board supply chain partners, and B2B transactions through data upload (instead of manual inputs)
- ④ **Inter-operability**: ability of the platform to listen & communicate with other external systems such as fabric certification systems, CDS of Textile Exchange
- ⑤ **Flexibility to model broad supply chains** such as cellulosic fibers, recycled polyester, and wool; and **ability to offer transparency layer** (mobile) for consumer engagement

Role of Sustainability Standards

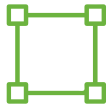




Evonne Tan

Data Management & China Strategy Director
Textile Exchange

The Role of Sustainability Standards



TC vs Digital Chain of Custody

	TC Chain of Custody	Digital Chain of Custody
 Scope	TC → Shipment → Product → Certified Weight	Product → Certified Weight
 Evidence	Transaction certificate	Digital asset
 Checking	CB manual	System
 Verification	CB manual	CB risk based
 Data flow	CE → CB → TE	CE → TE → CB

Expect:

- ✓ Faster
- ✓ More accurate
- ✓ Cheaper

Question:

- Fit with our standards?
- Is it scalable?

Textile Exchange - Textile Genesis Collaboration



In October 2019, Textile Exchange and Textile Genesis entered a collaborative arrangement to explore the use of Textile Exchange's chain of custody on Textile Genesis' traceability platform. The objectives of this project are to:

- Pilot the use of Textile Exchange's standards on TextileGenesis' traceability platform.
- Assess the fit of a digital traceability solution for Textile Exchange's chain of custody.
- Develop a white paper on the gaps and opportunities Textile Exchange's standards.

Coming Next



Transparency: How it is Re-shaping the Textile Value Chain

August 5 @ 10AM EST | 4PM CEST

Textile Exchange and TextileGenesis® Collaboration

September 2 @ 10AM EST | 4PM CEST

Thank you



TextileExchange.org

© Copyright Notice

This presentation is protected by U.S. and International copyright laws.

Textile Exchange welcomes you to use slides from this collection for your presentations on the condition that:

- The slides are not altered from the way it is presented in its original format, this includes changing colors and style.
 - The Textile Exchange logo should not be removed.
 - Adding logos and/or content is not permitted without written permission from Textile Exchange.
- Any presentation using this content or any form of this content should acknowledge Textile Exchange as the author.