



**Enhancing textile/clothing sector by eBIZ and
RFIDs
technologies adoption — eBIZ-4.0**



The baseline in data flows along Textile Clothing supply chains

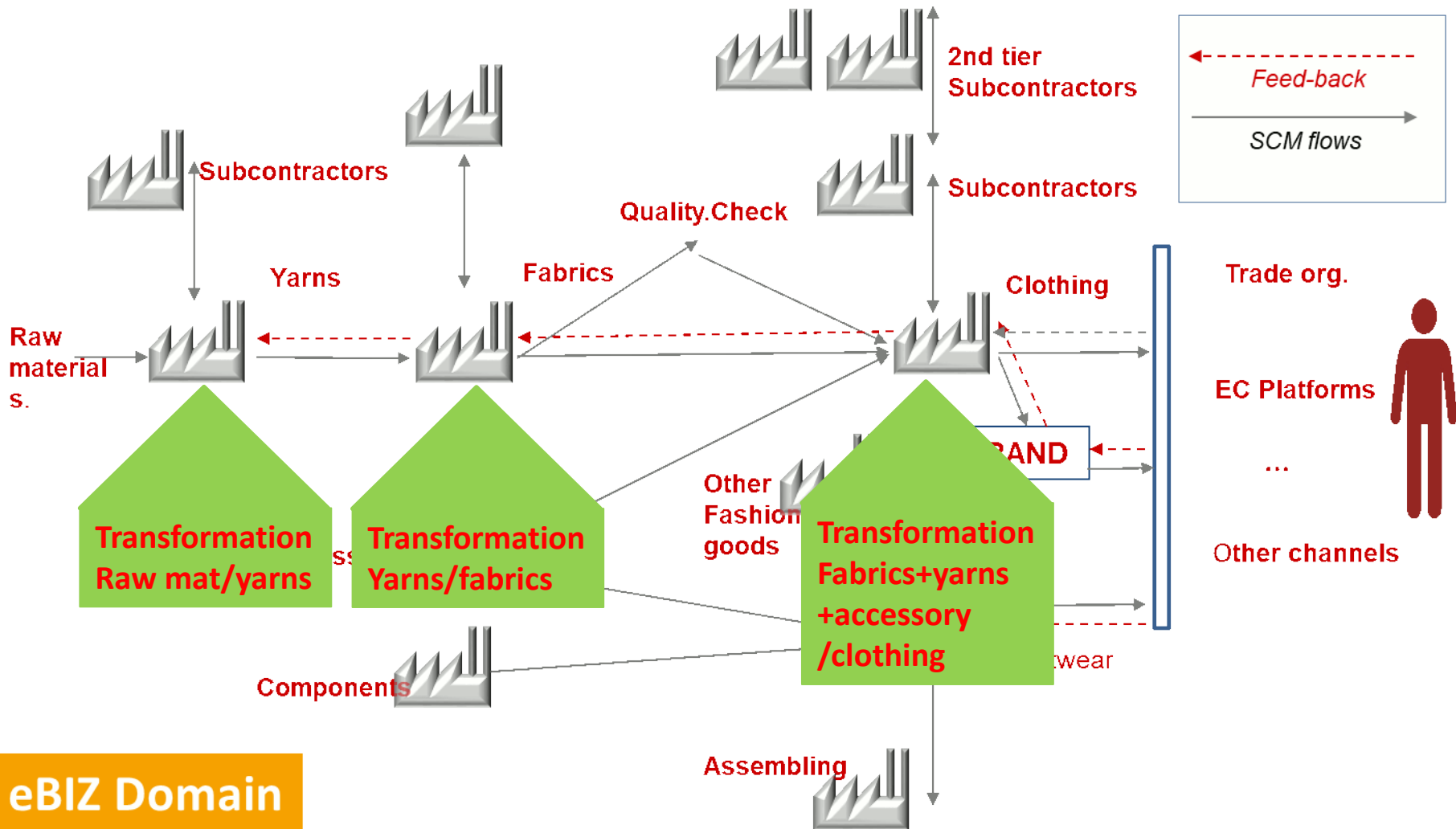
For “Enhancing Traceability and Transparency of Sustainable Value Chains in
the Garment and Footwear Sector” project (UNECE)



Piero De Sabbata (ENEA, expert for EURATEX)

London, 31-10-2019

eBIZ business data flows

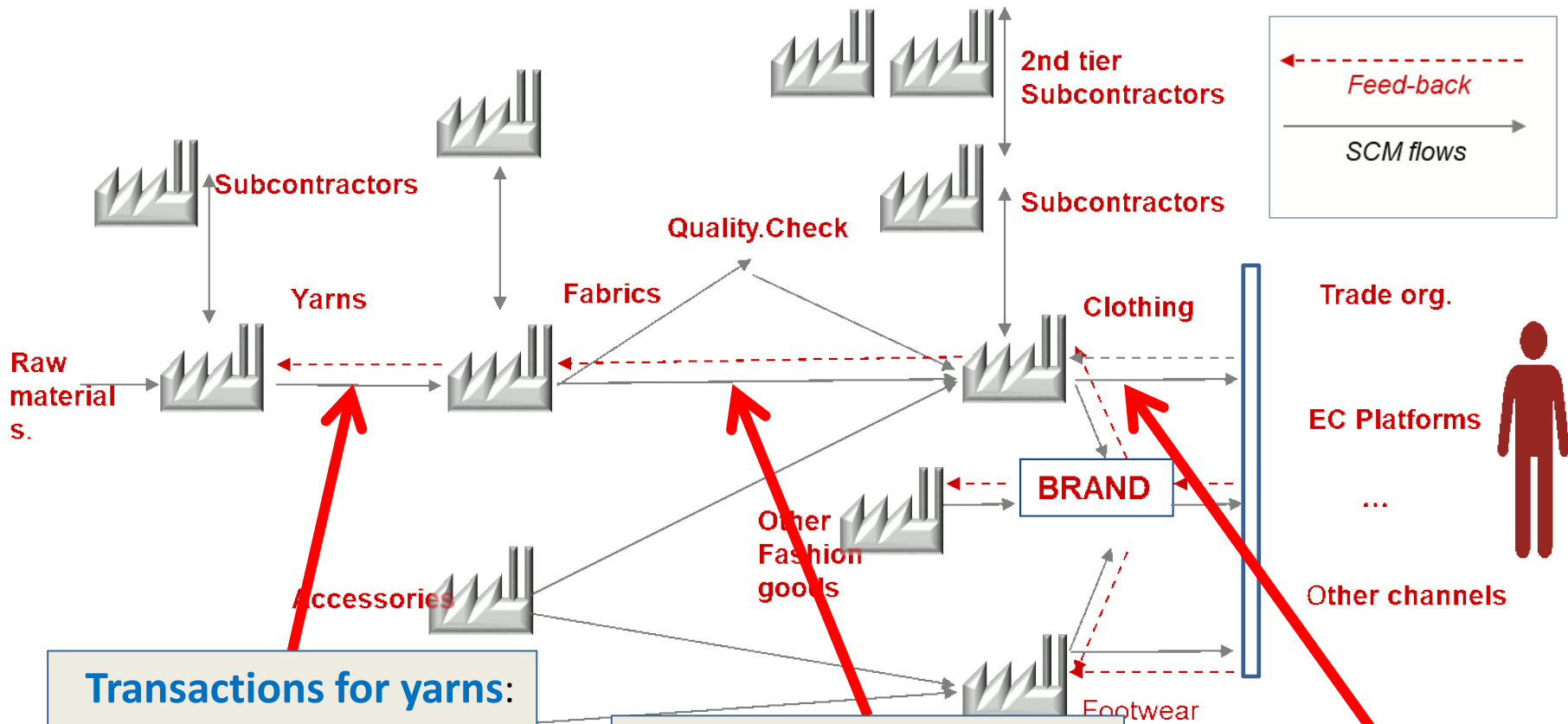


eBIZ Domain

eBIZ permanent standardisation initiative led by EURATEX for a single common language in the TCF sector

History: solicited by European Commission (DG Industry & Enterprise) and promoted by EURATEX, CEC and ENEA (2010); after a **CEN WS process** produced **CWA 16667 specifications** (2013); in 2018 **eBIZ 4.0** (COSME project) update on traceability and RFID adoption in multitier supply chains.

eBIZ business data flows



Transactions for yarns:

- Commission orders
- Despatch advices
- Receiveing advices
- Quality reports
- Technical sheets

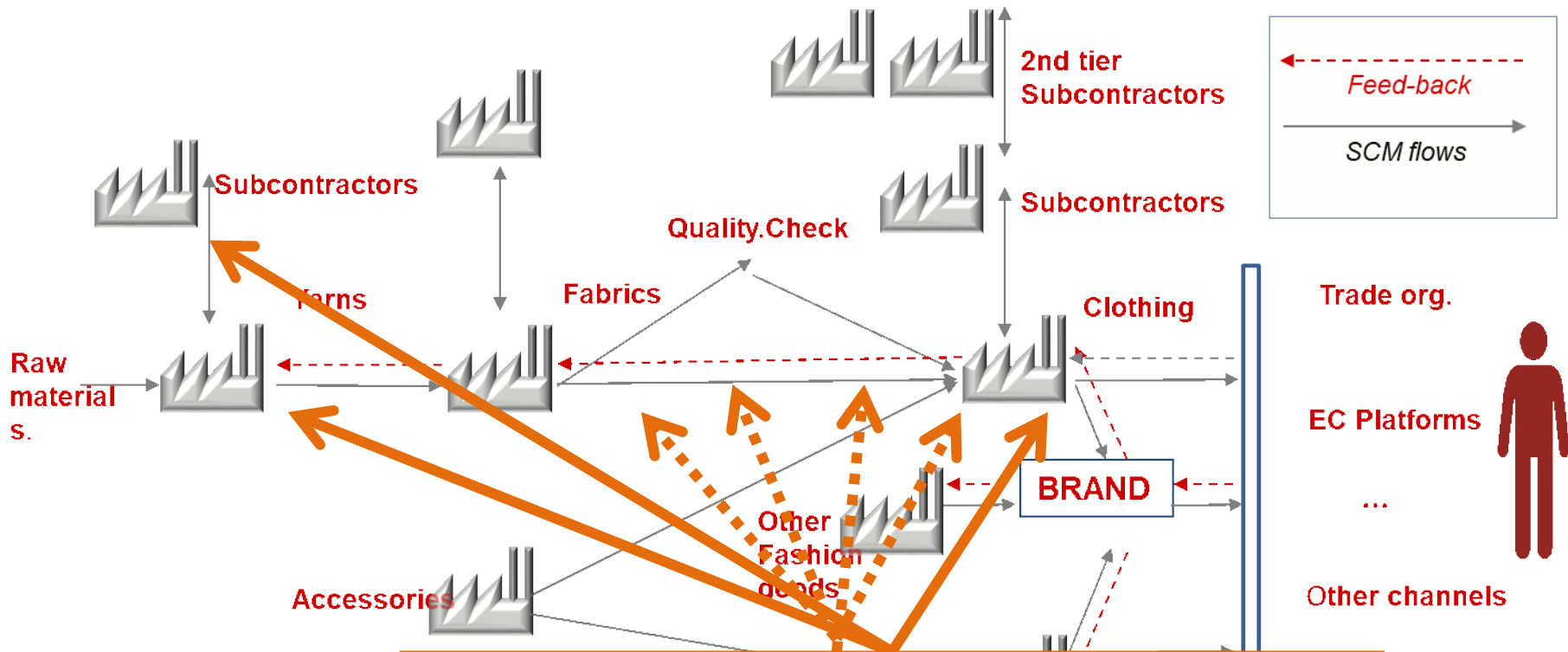
Transactions for fabrics:

- Commission orders
- Despatch advices
- Receiveing advices
- Quality reports
- Technical sheets

Transactions for ...:

-

eBIZ business data flows



Exchanged Information at article/lot/sku level

- Product code
- Lots/batches/serial IDs
- Manuf. Processing
- Destination/Origin, Transport means
- Country of destination
- Composition, Mechanical/Chemical properties

eBIZ Domain

Component

Where are we?

- A supply chain where the latest tiers were NOT ABLE to get in a digitalised world
- Increasing quantity of information requested
- Crucial cost/benefits ratio
- eBIZ has broken some of the hampering barriers: small companies are using it thanks to a READY FOR INTEROPERABILITY approach
- Necessity of
 - new business value to support investments
 - new traceability requirements for sustainability must match existing data exchange need and offer an incremental approach



Technically speaking, for traceability what is still lacking

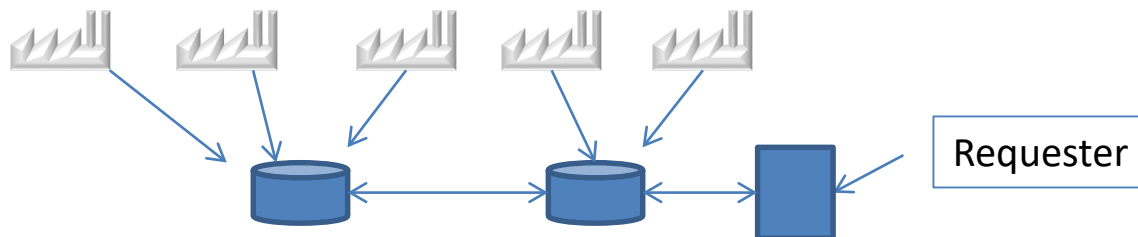
- Raw material segment (fibers origin) and end of life
- Representation/categorisation of Certification and third parties Analysis/test reports so that they are digitally processable
- An agreed architecture that allows that third parties as self declared evidences are unchangeable, permanent and non-repudiable
- An approach to retry the history/properties of a final product (including Origin, and for example PEF and OEF impacts)
- Governance rules flexible enough in order to allow each player to pursue its strategy within a common language framework

Raw
ma
s.

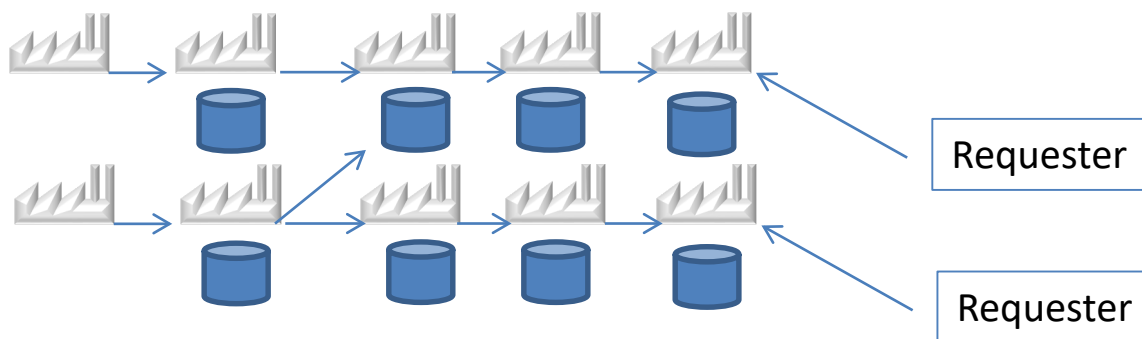


Paradigm we think about, possible choices

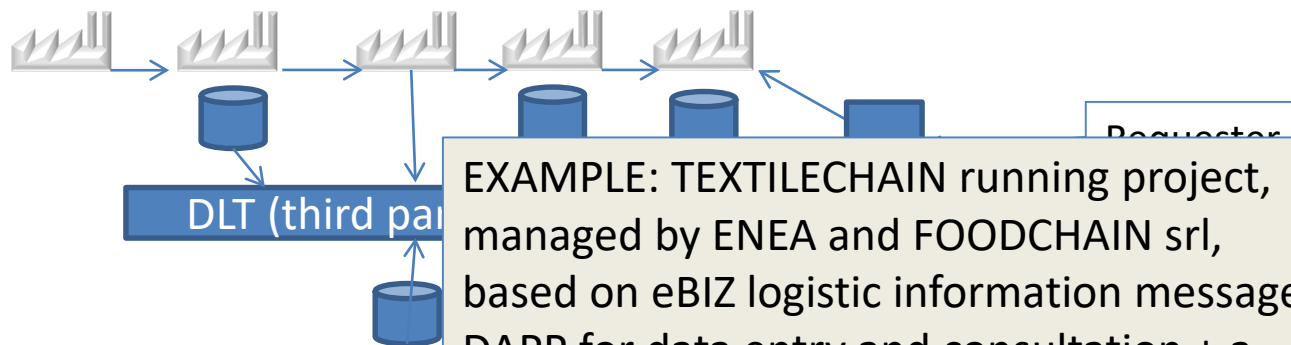
1) Public authority or trusted third party with (almost) centralised registries



2) Flows along the supply chains



3) Hybrid, for example blockchain based



EXAMPLE: TEXTILECHAIN running project, managed by ENEA and FOODCHAIN srl, based on eBIZ logistic information messages + a DAPP for data entry and consultation + a QUADRANS Blockchain

4) Any other

on-line eBIZ resources: www.ebiz.enea.it

Dictionary of terms of eBIZ (draft)

Simple and aggregated terms used in the whole eBIZ di

The dictionary enables the research of the meaning and constraints of eBIZ/Moda-ML XML Schemas of the this version and reports parents and children. Please note that only the terms related to eBIZ TC Upstream are here.

The search action can be launched by specifying only a part of the term name



Version source: eBIZ TCU Draft
 Search: piece
 Search for

42 record found.
 Click on columns head to sort the results.

Inst. type	Instance	Type	Description
Attribute	@faultRank	piece fault rank code	ranking class of the fabric fault
Attribute	@faultShape	piece fault shape code	shape classification of the

www.ebiz.enea.it

- User Guides
- XML-Schema, JSON Schema
- Examples and XSLT
- Processes ATLAS
- **Dictionary of Terms**
- Reference processes
- Look-up tables of codes
- Automatic conformance Test

Attribute: <faultShape>

Type	piece fault shape code, shape classification
Base type	string
Enumeration list	NT14 - fabric fault shape*

Parent	Use	Fixed	Default	Description
pieceFault	Optional			shape classification

*NT14 - fabric fault shape

Code	Meaning
C	continuous
P	point
S	stretch

