

The Data Model for Due Diligence in Garment and Footwear Value Chains

Sustainable Textile Data Modelling

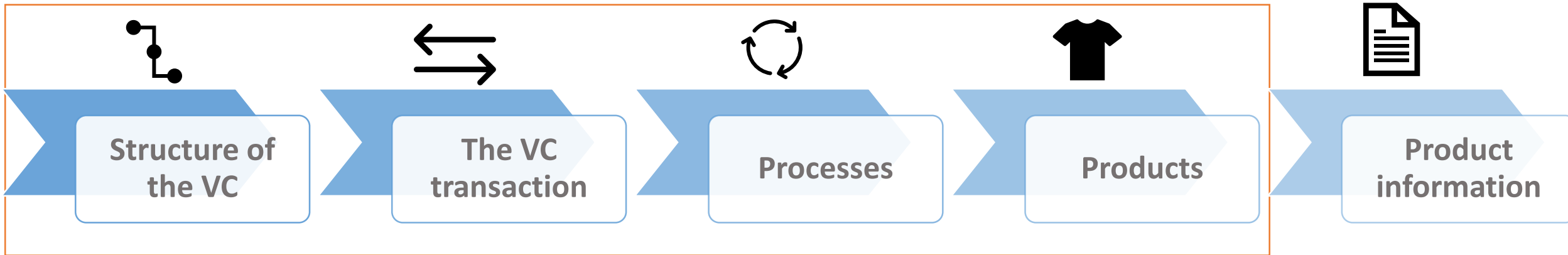
Frans van Diepen and Niki Dieckmann

30-31 | 10 | 2019, 34th UN/CEFACT Forum, London



Mapping of Information

Key elements



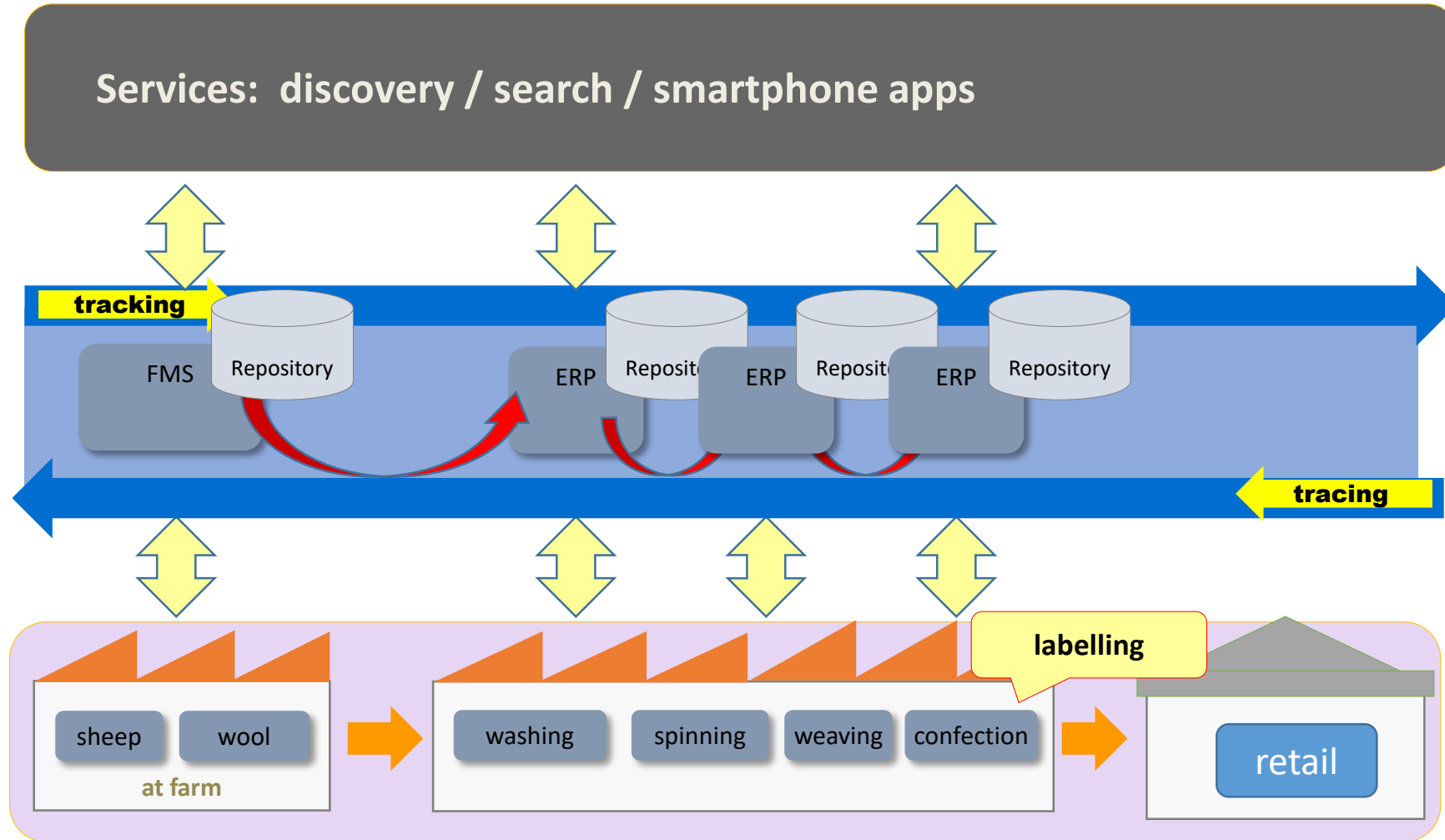
Track and Trace issues



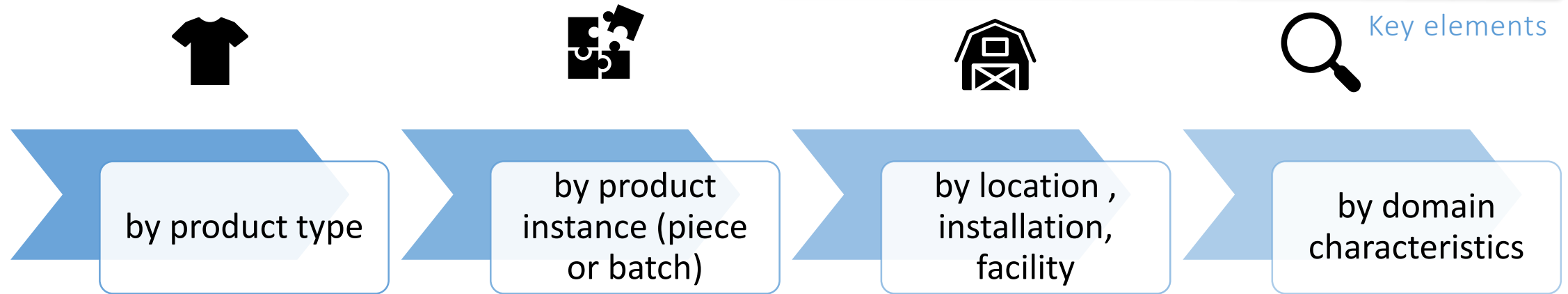
UNECE

Track and Trace issues

Information exchange



Product information



Key elements

Certification



- Technical (physical)
- Social
- Environmental,
- Legal
- Market
- Origin (country, region)



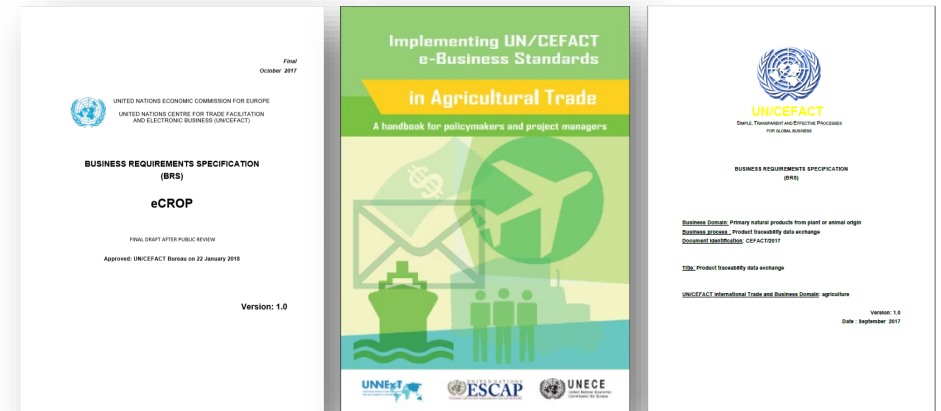
UNECE

UN/CEFACT CCL available information entities

Sources :

1. eCROP
2. Track and Trace animals plants and products of organic origin
3. EPCIS

Electronic certificates:
SPS (eCERT),
e-Quality,
e Certificate of Origin (draft)

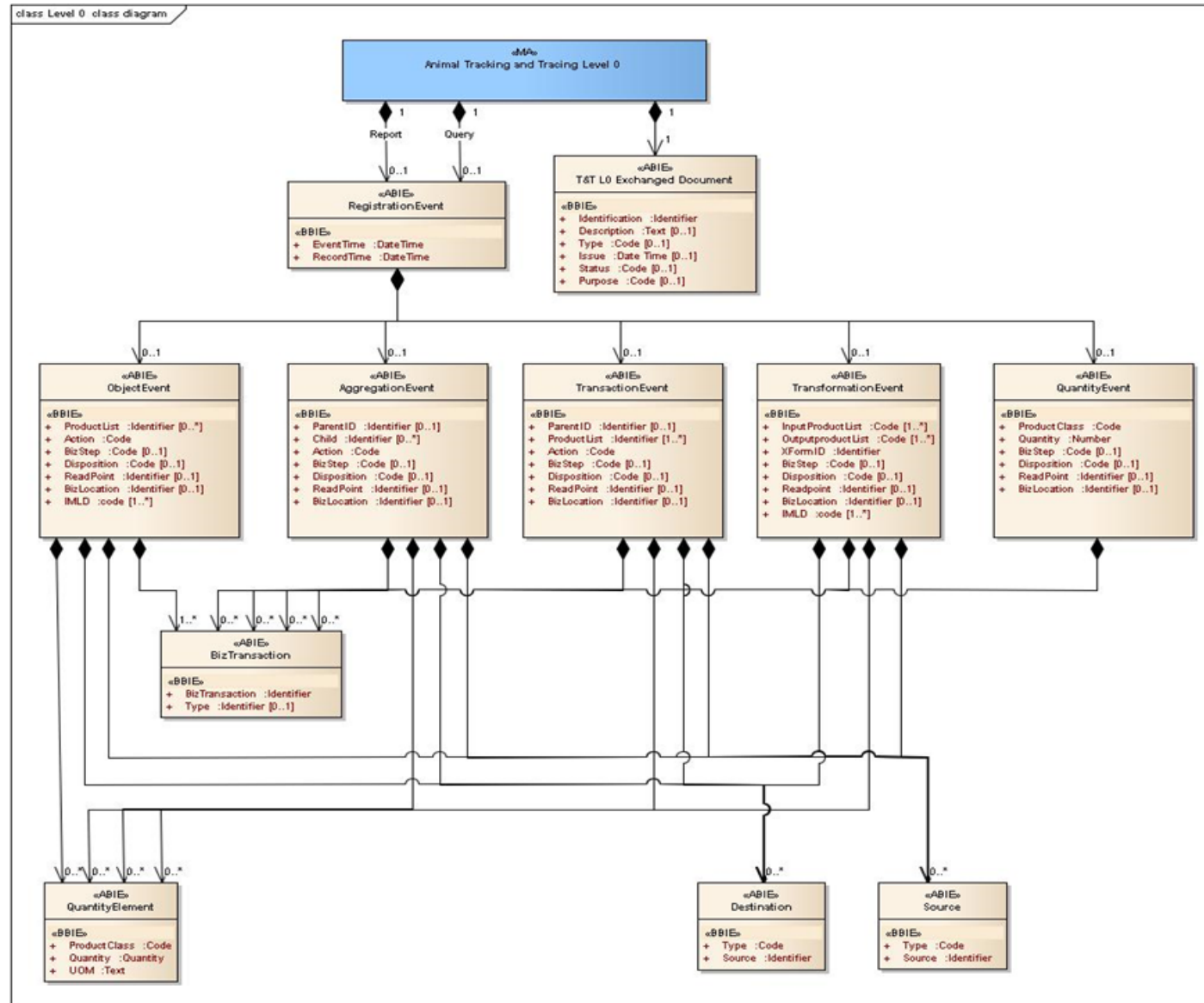


The Data Model for Due Diligence in Garment and Footwear Value Chains

Adapted class diagrams of UN/CEFACT standard messages

EPCIS:

Initial Class Diagram for Level 0 based on the original ISO / IEC 19987 specification

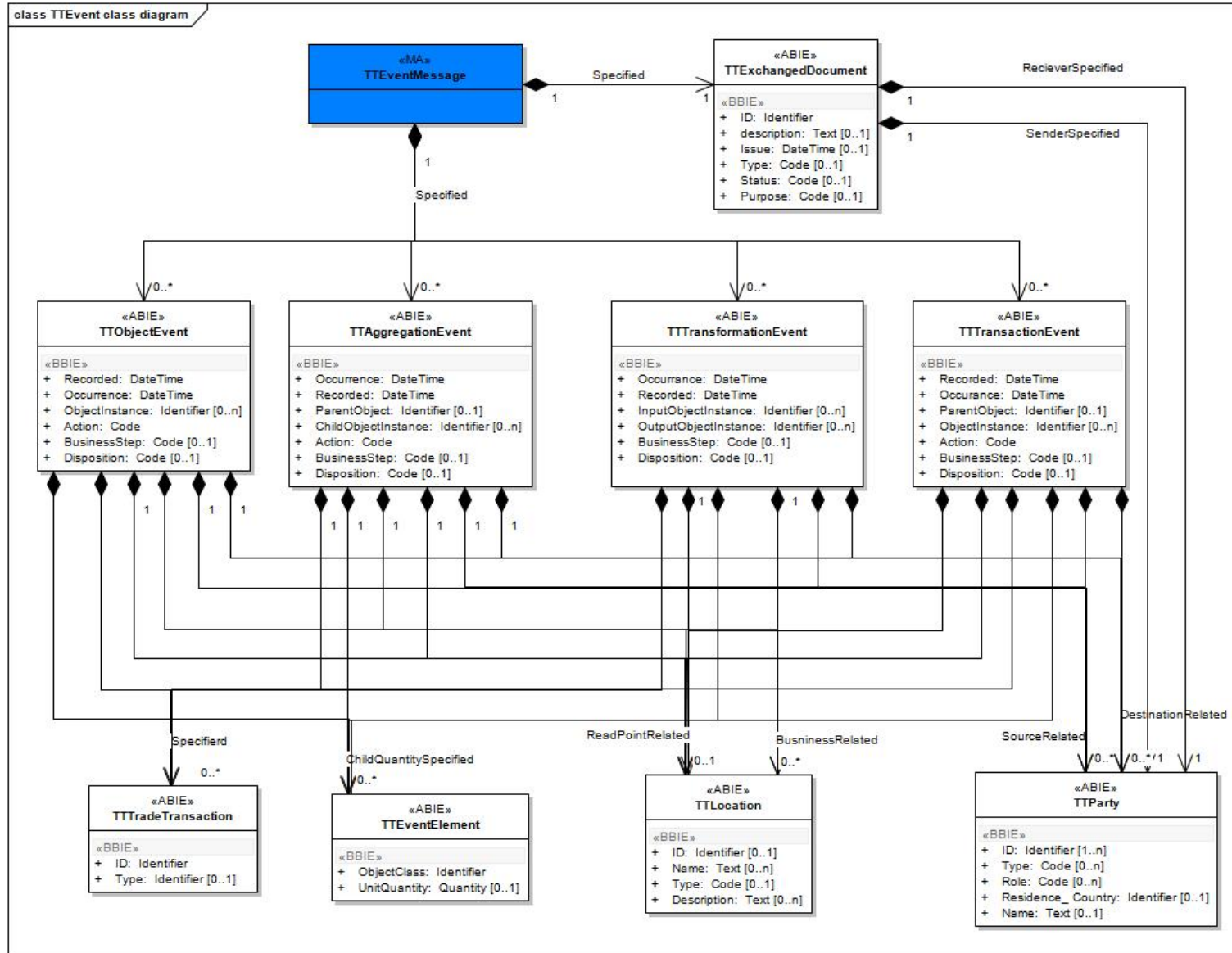


The Data Model for Due Diligence in Garment and Footwear Value Chains

Adapted class diagrams of UN/CEFACT standard messages

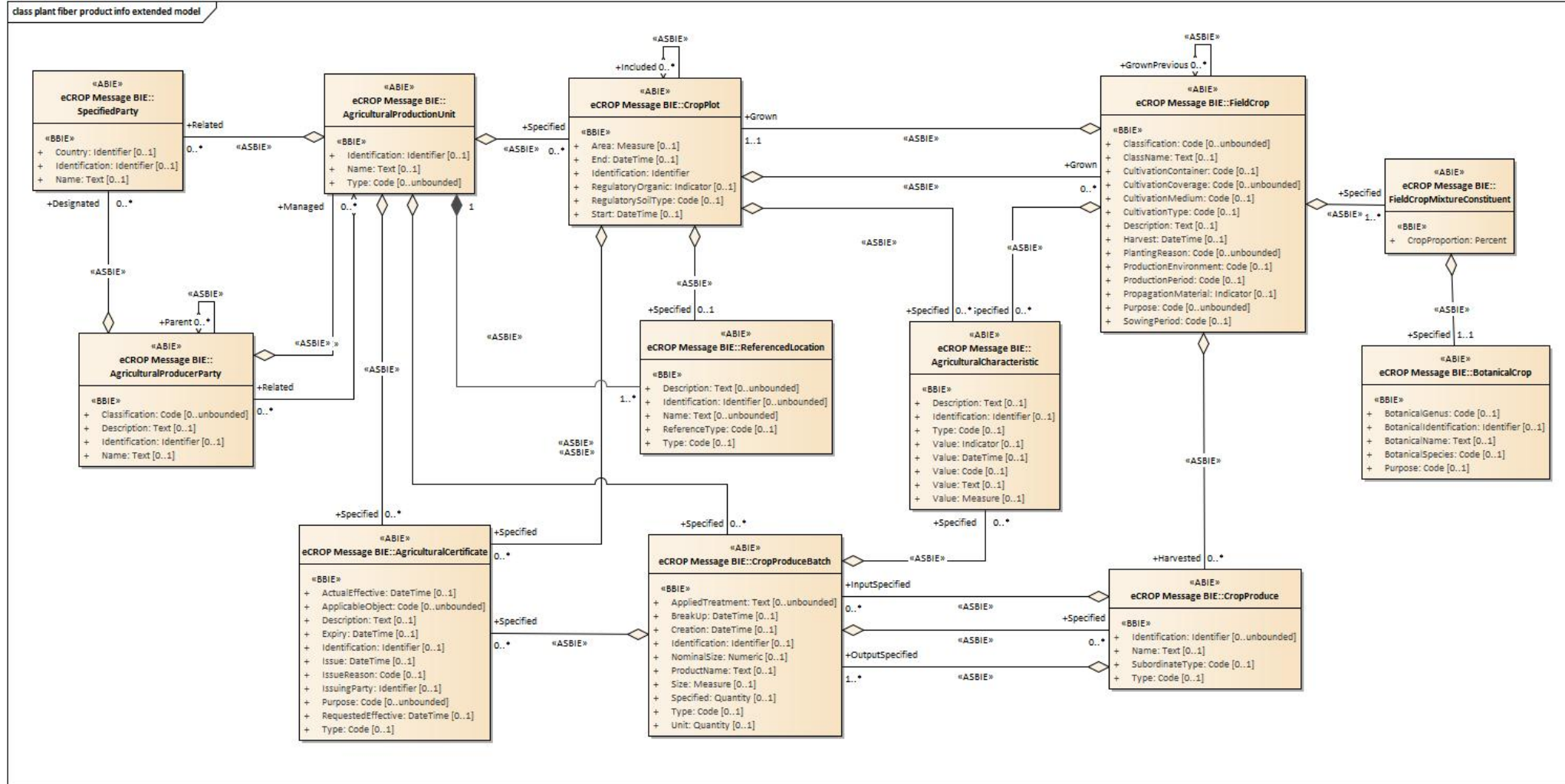
UN/CEFACT Track and Trace:

EPCIS transformed into UN/CEFACT technical specifications



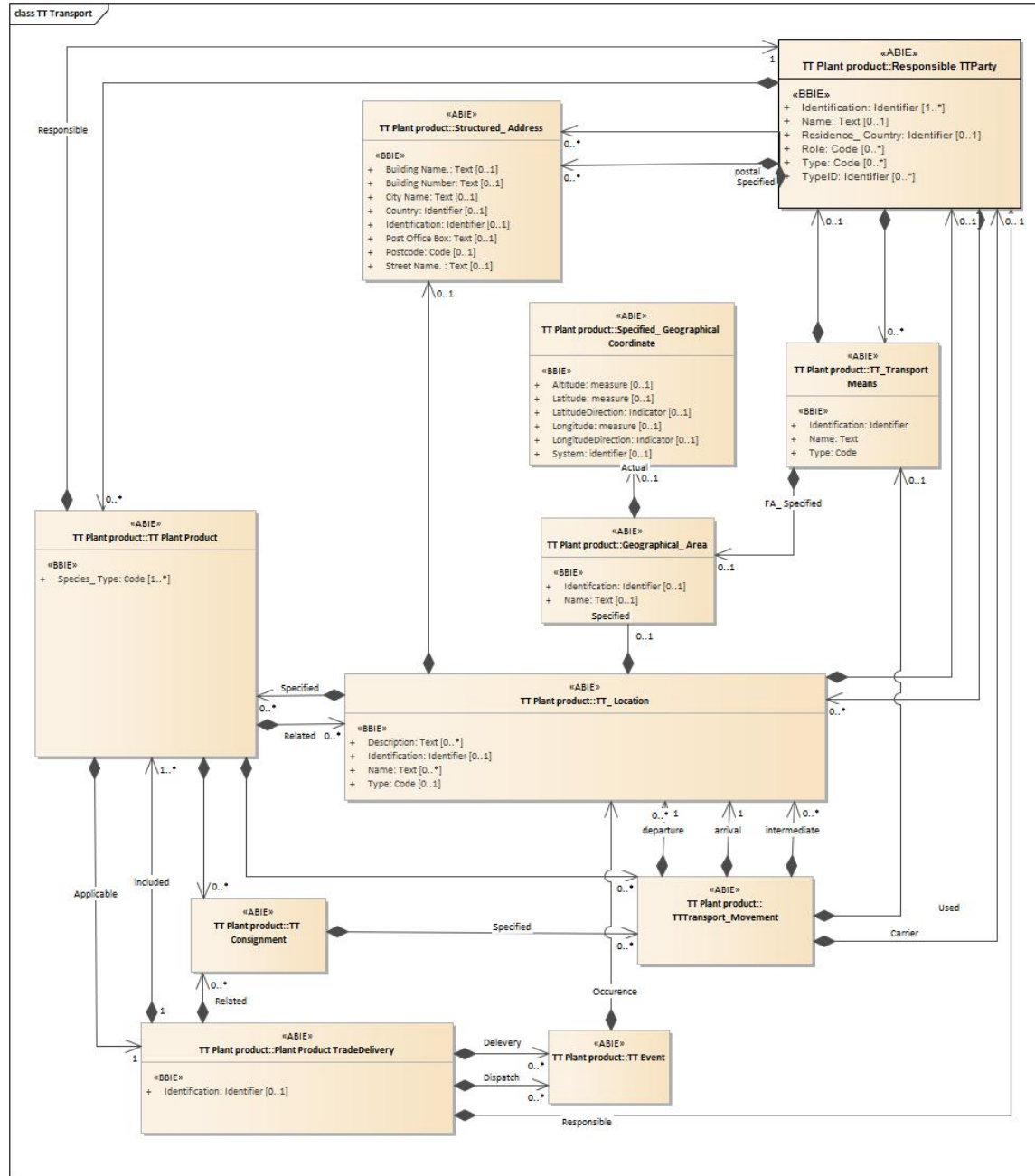
Raw plant fibers from the farm

Extended elements from eCROP

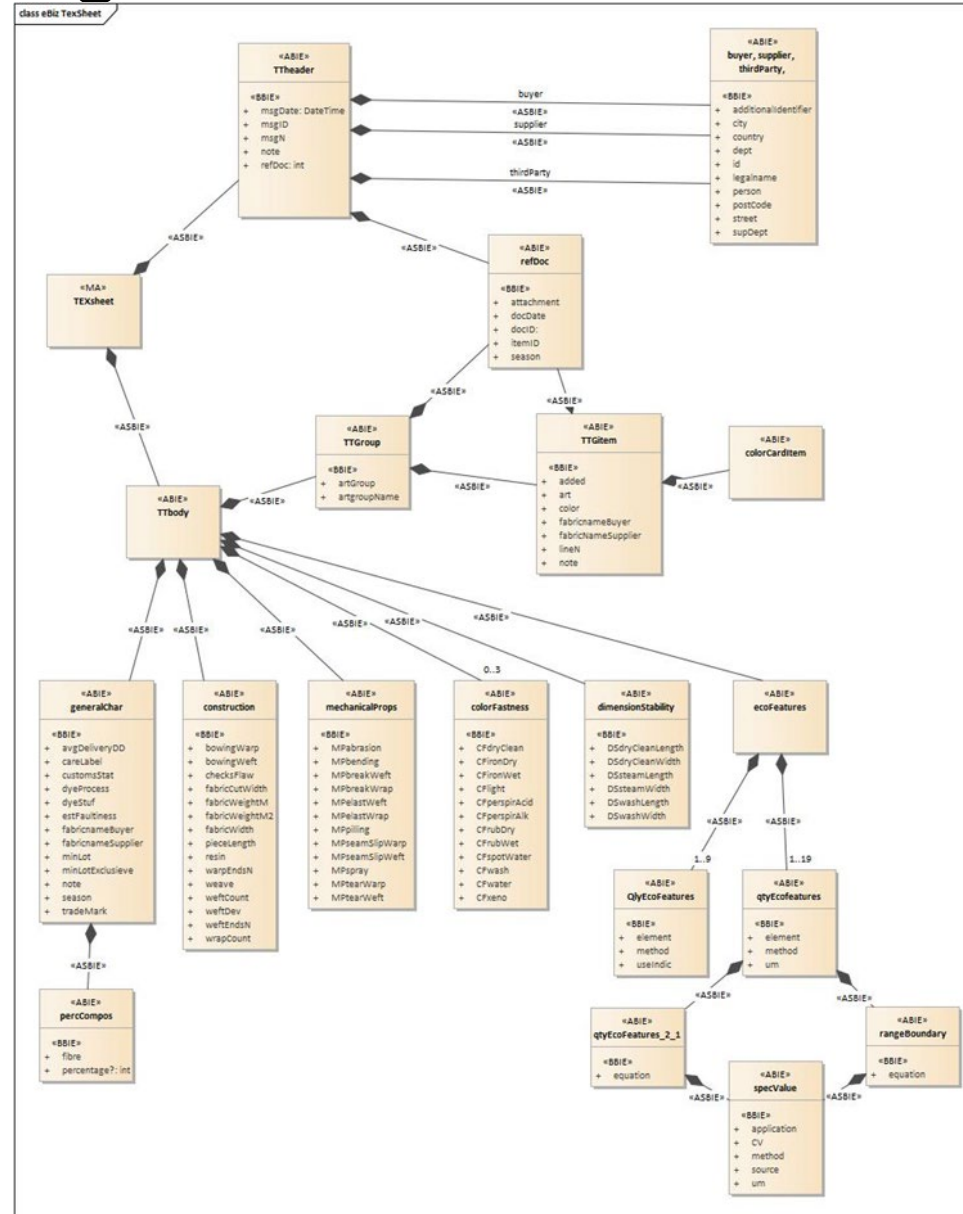


Transport information

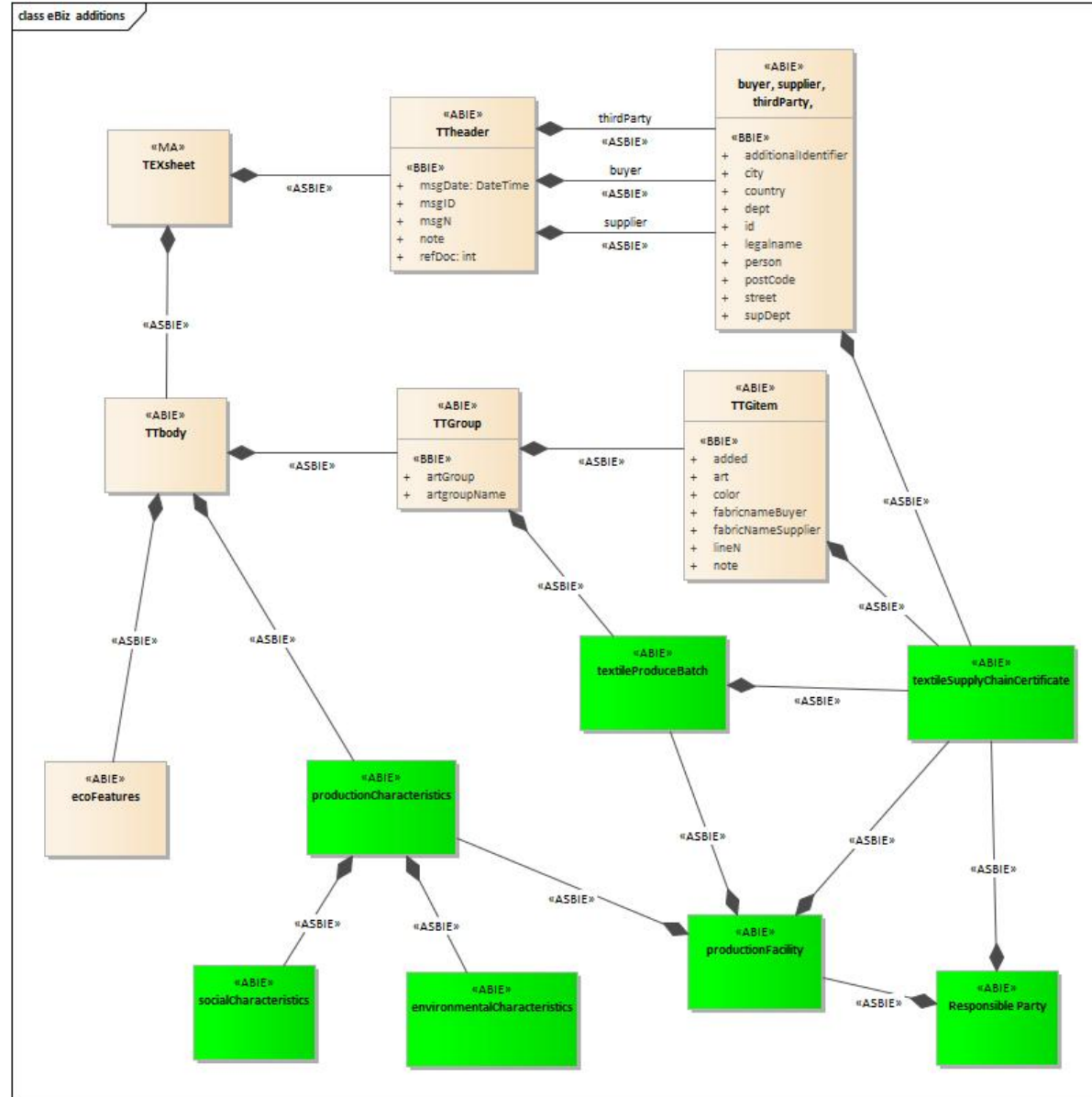
Extended elements for transport from Track and Trace plant products



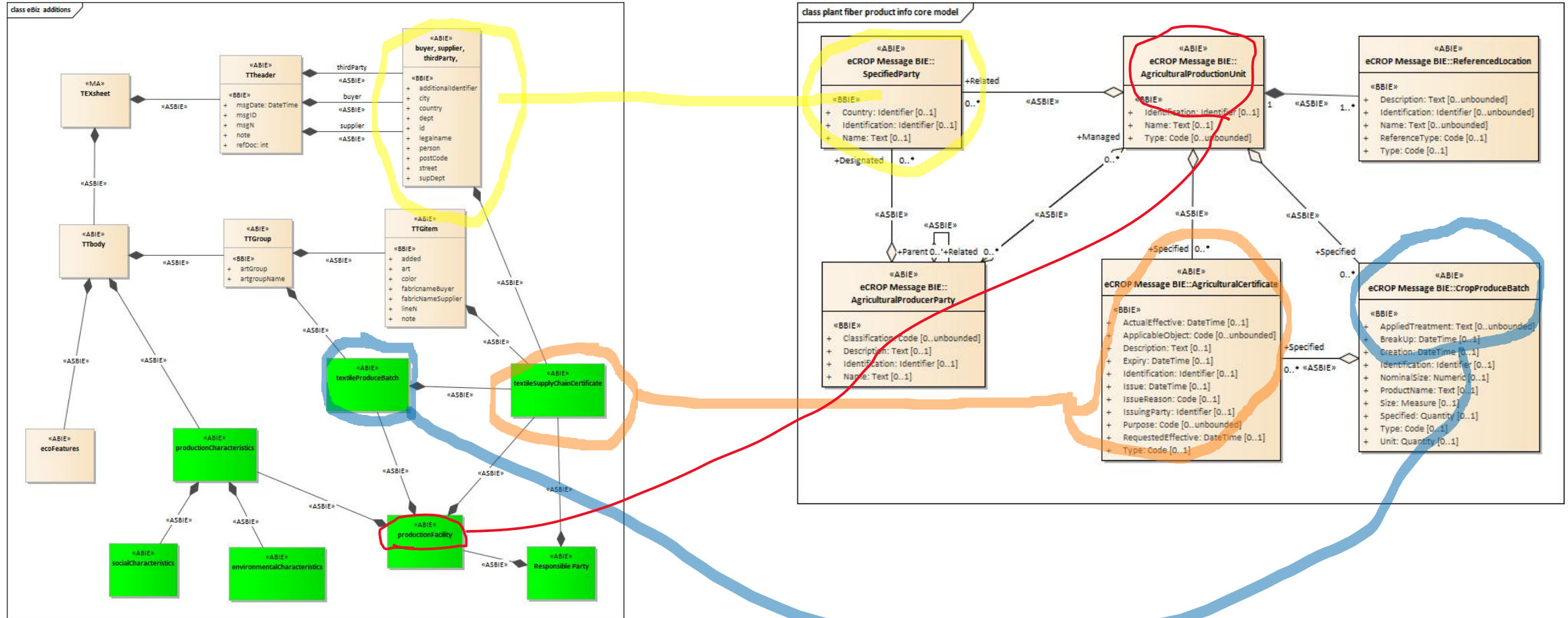
Euratex eBIZ TexSheet message



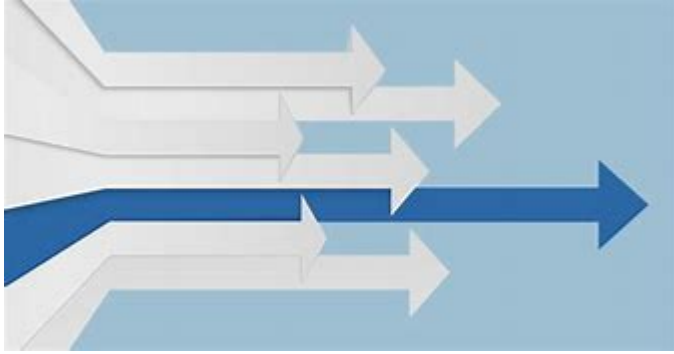
Additional new elements to TexSheet



Merge the schemas

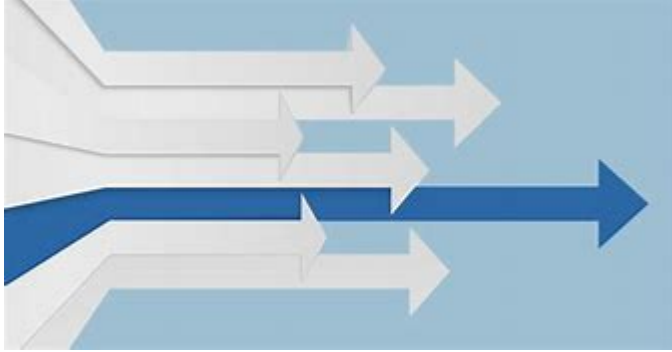


Harmonization and next steps

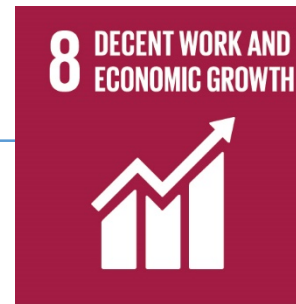


1. Define the **use cases and information collaboration processes** (which information is exchanged, between whom, and which exchange process)
2. Define the **information data set specifications**
3. Define selected information set from **UN/CEFACT Core Component Library (CCL)**
4. Define selected information set from **eBIZ**
5. Survey for **other available information sets**

Harmonization and next steps



6. Complete the information sets for the **missing requirements** (especially on sustainability information entities)
7. Merge and harmonize **UNCEFACT and eBIZ entities** transform **eBIZ XML information entities** to UML and CCL **specifications?**
8. Define the sustainable textile information exchange **message specifications** (xml schema, services)
9. Write **implementation guidelines, message and service handbook(s)**



Agenda

- Instructions & Group compositions
- **Roundtable Discussion (40 min per group) + 30 min reporting back)**

*Q. What information travels with the **product**, what information remains in the **database of the issuing agency of the certificate**, and what information remains in the **database of the business party** to be retrieved on request?*



UN / CEFAC



Frans Van Diepen and Niki Dieckmann

UN/CEFACT Experts

National Service for Enterprises, Ministry of Economic
Affairs, The Netherlands

frans.vandiepen@rvo.nl

niki.dieckmann@rvo.nl

Thank you