

Key Trade Documents and Data Elements

Digital standards analysis and recommendations—
an integrated framework for digitalizing the entire
supply chain



April 2024

Digitalising Global Trade and Supply Chains with the KTDDDE Framework

Global Trade Facilitation Summit
May 2, 2024
Dubai

Digital Standards Initiative

Mission

The ICC Digital Standards Initiative (DSI) aims to accelerate the development of a globally harmonised, digitised trade environment, as a key enabler of dynamic, sustainable, inclusive growth.

We engage the public sector to progress regulatory and institutional reform, and mobilise the private sector on adoption, implementation and capacity building.



Supported by



WORLD TRADE ORGANIZATION



World Customs Organization



Our Vision: Roadmap to Digital Trade

- 1. STANDARDS**
Enable the development of a global baseline of standards for digital trade documents and data to facilitate interoperability across networks and platforms.
- 2. TRUST**
Develop frameworks for technology principles and practices to enable scalable digital trust across the entire trade ecosystem.
- 3. LEGAL**
Advocate and enable the adoption of legal reforms and enabling policy frameworks worldwide.
- 4. CAPACITY**
Engage and educate across the public and private sector to build capacity for digital trade; and collaborate to seed digitalisation at key leverage points.



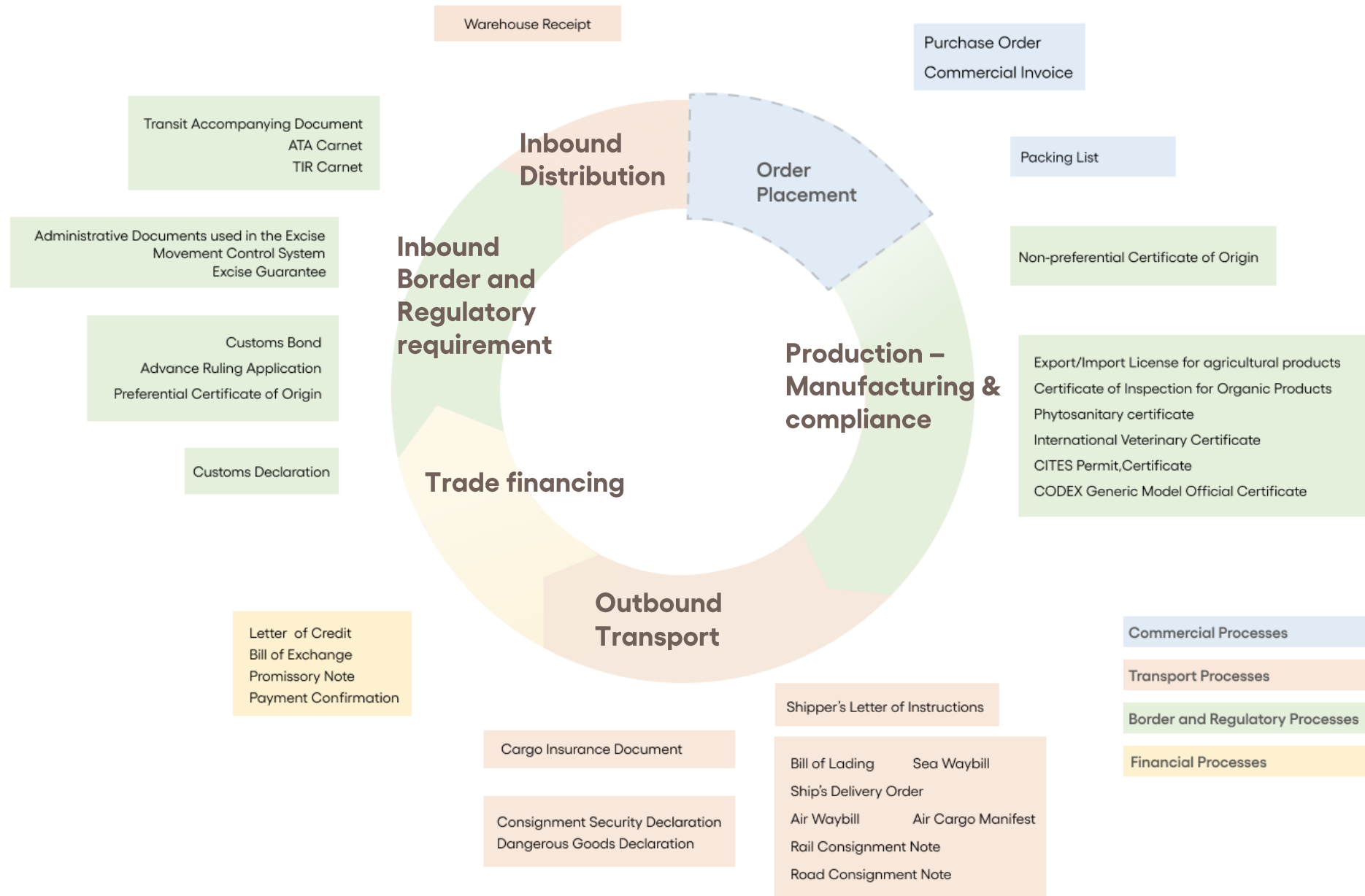
Bringing Global Trade into the Digital Age

The Key Trade Documents and Data Elements (KTDDE) Working Group under ICC DSI aims to accelerate trade digitalisation by analysing and making digitalization recommendations for all key trade documents and data elements used in supply chains today.

- **36 trade documents** analyzed and aligned with the goal of seamless data sharing and interoperability
- Comprehensive **key trade data glossary** accessible as an [interactive web tool](#)
- The first **integrated framework** drawing on different data models and approaches across private and public sectors

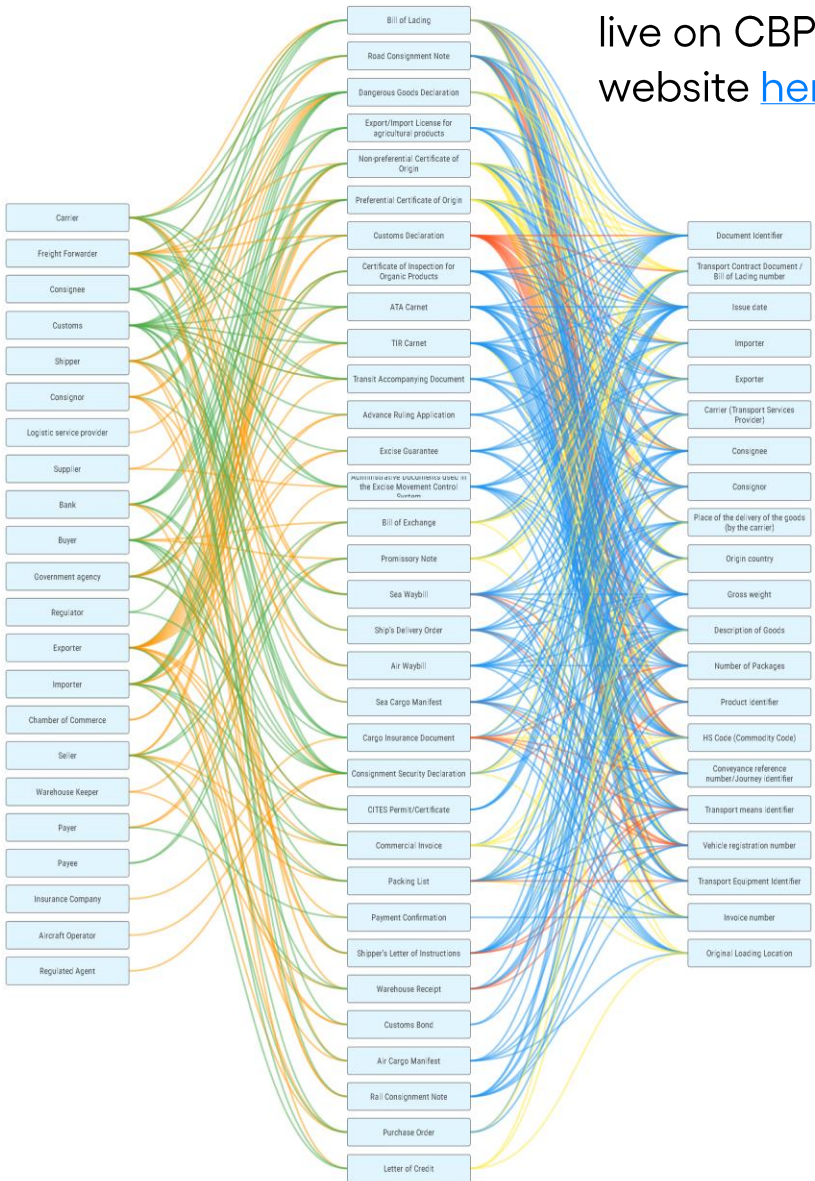


36 Key Trade Documents Enable Physical And Financial Flows in Supply Chains



Data Glossary for Key Trade Documents

— Sender — Receiver — Mandatory Occurrences — Optional Occurrences — Conditional Occurrences



Experience this live on CBPT website [here](#)

Mapping the players, documents, and data across physical and financial supply chains

A first piece of the framework to enable data sharing, with trust, at scale

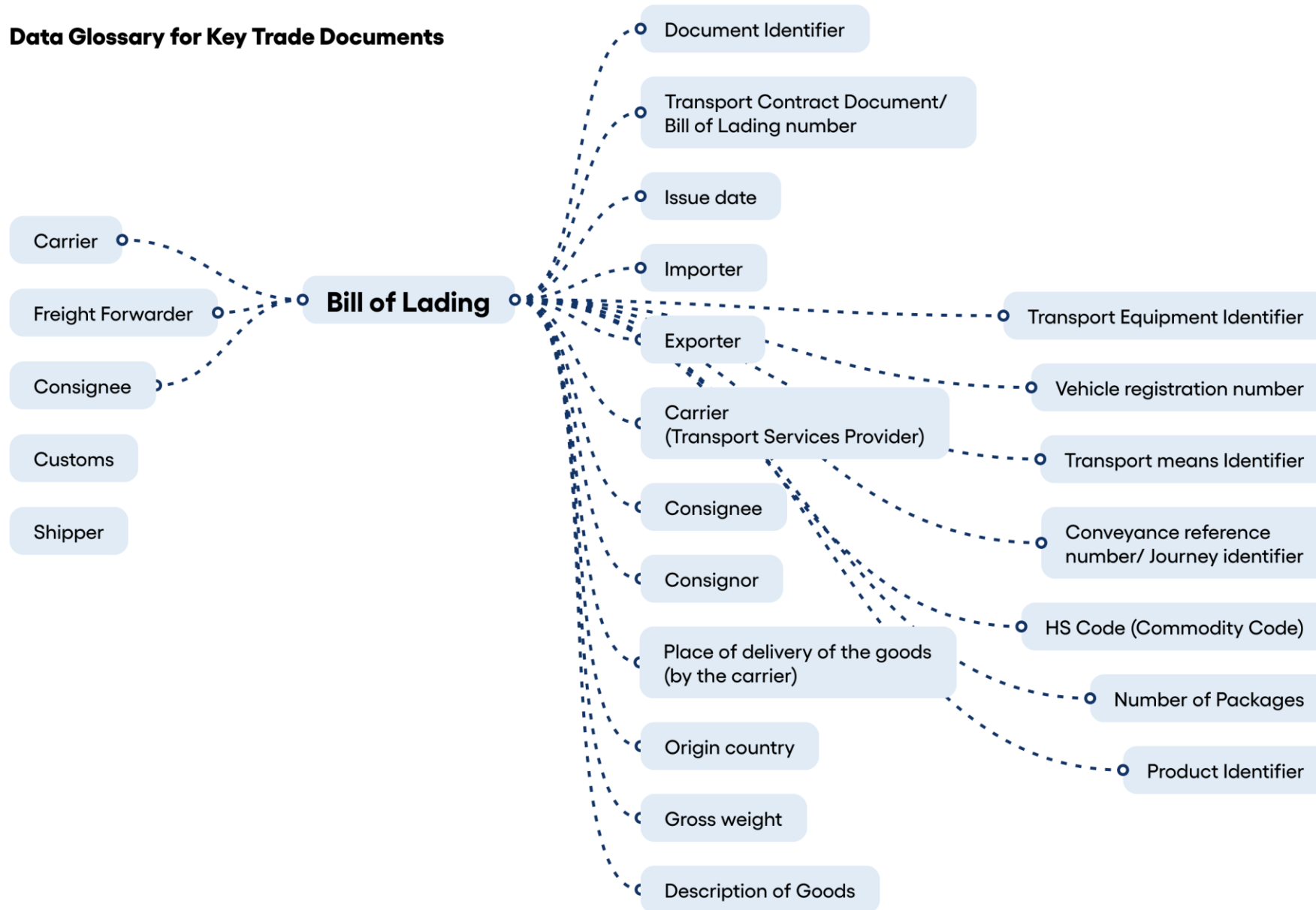
<200 key data elements are utilised across trade documents, with many shared across multiple documents:

- 189 key data elements (DE) identified in the glossary
- Average # DE per document= 26
- 142 DE used in more than 1 document
- 53 DE used in more than 5 documents
- 21 DE used in more than 10 documents (left chart)



Find the complete map here

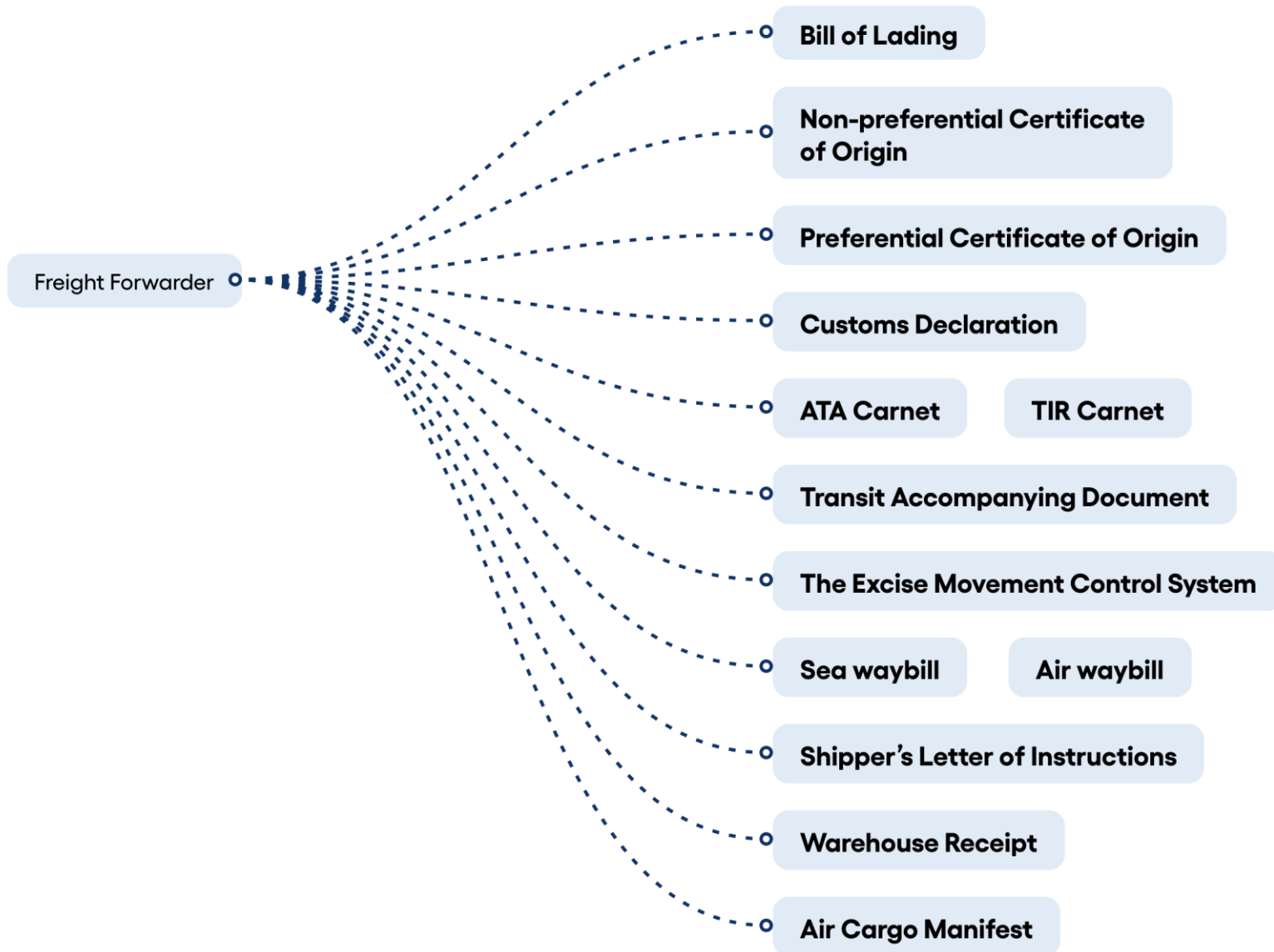
Data Glossary for Key Trade Documents



A close look at any key trade document reveals:

- The supply chain actors and stakeholders involved in sending/receiving, issuing and processing this document
- The most important data elements of that process / document
- Standardized definitions for selected data elements

Data Glossary for Key Trade Documents



A close look at any key supply chain actor reveals:

- Their involvement in sending/receiving, issuing and processing various types of documents
- Documents may share overlapping data elements but will also contain process-specific data requirements.

36 Digital Trade Documents: Progress on harmonization and interoperability

Standardised	Standardised exist, but without interoperability	Early-stage standardisation
<ol style="list-style-type: none"> 1. Commercial Invoice 2. Bill of Lading 3. Sea Waybill 4. Ship's Delivery Order 5. Air Waybill 6. Sea Cargo Manifest 7. Air Cargo Manifest 8. Rail Consignment Note 9. Consignment Security Declaration 10. Non-preferential Certificates of Origin 11. Customs Declaration 12. CODEX Generic Model Official Certificate 13. Phytosanitary certificate 14. CITES permit/ certificate 15. ATA Carnet 16. TIR Carnet 17. Transit Accompanying Document 18. Administrative Documents used in the Excise Movement control system 19. Payment Confirmation 20. Bill of Exchange 21. Promissory Note <p>21 documents with standard electronic versions set the pace for adoption.</p>	<ol style="list-style-type: none"> 1. Purchase Order 2. Shipper's Letter of Instruction 3. Packing List 4. Certificate of inspection for Organic Products 5. Advanced Ruling Application 6. Letter of Credit <p>6 documents show the need for interoperability between multiple standards.</p>	<ol style="list-style-type: none"> 1. Road Consignment Note 2. Cargo Insurance Document 3. Warehouse Receipt 4. International Veterinary Certificate 5. Dangerous Goods Declaration 6. Customs Bond 7. Export/Import License for agricultural products 8. Excise Guarantee 9. Preferential Certificates of Origin <p>9 documents at early stage of standard development - a call for innovation.</p>
		

How might we address needs for increased visibility and traceability in the global supply chain?



Align key data and digital documents

across the supply chain and its many different stakeholders, and thus pave the way for **interoperability** which will enable secure data sharing, efficiency and visibility.

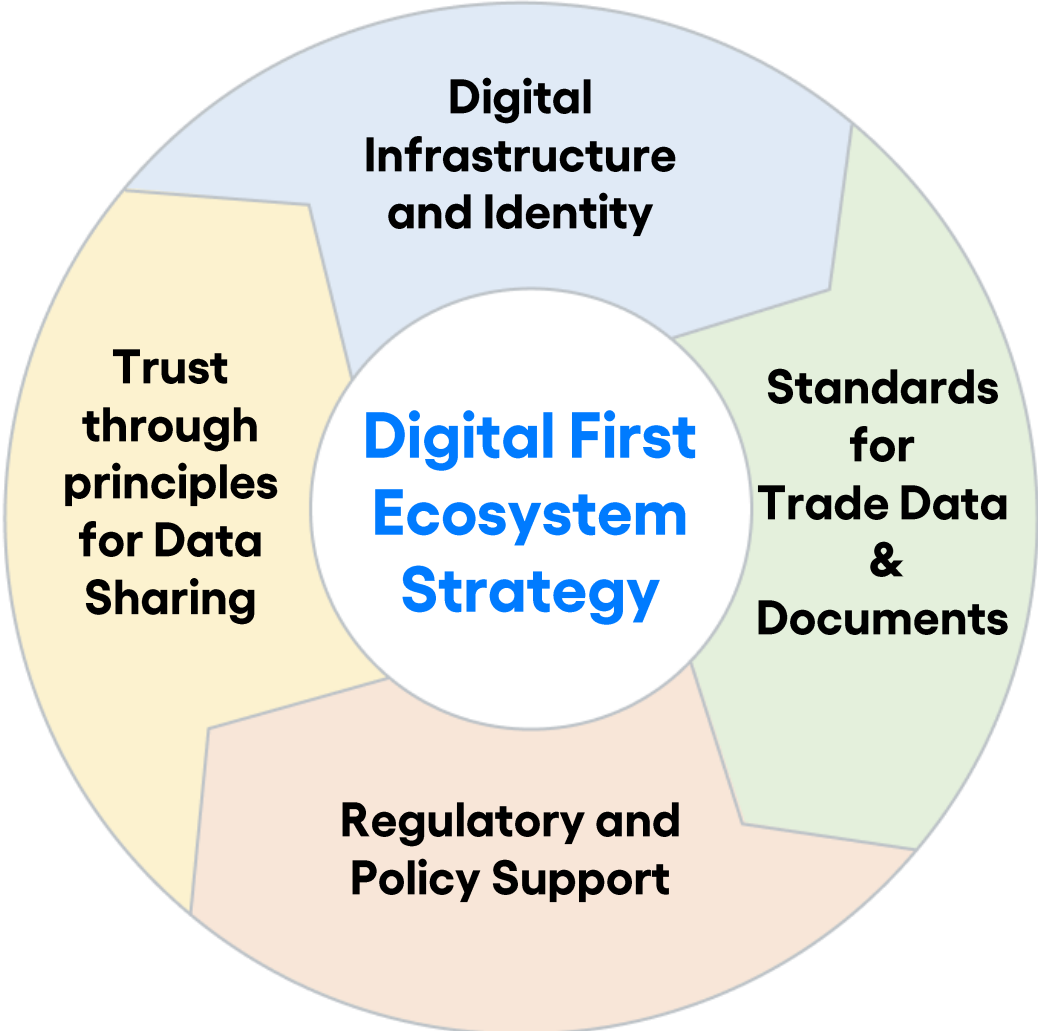


Digitalise all key trade processes along the supply chain, adhering to standards for digitalized documents and data elements. This will put all users on the road to interoperability.



Enable the creation of a “**single source of truth**” from data that is **verified, shared, and secured**, for every supply chain, and which can anchor and support data needed for other purposes (ESG, finance).

From Documents to Data: the building blocks are coming together.



Resources

1. [KTDDE Final Report](#)
2. [Key documents analysis for 36 documents](#)
3. Interactive [Key Trade Data Glossary](#)

