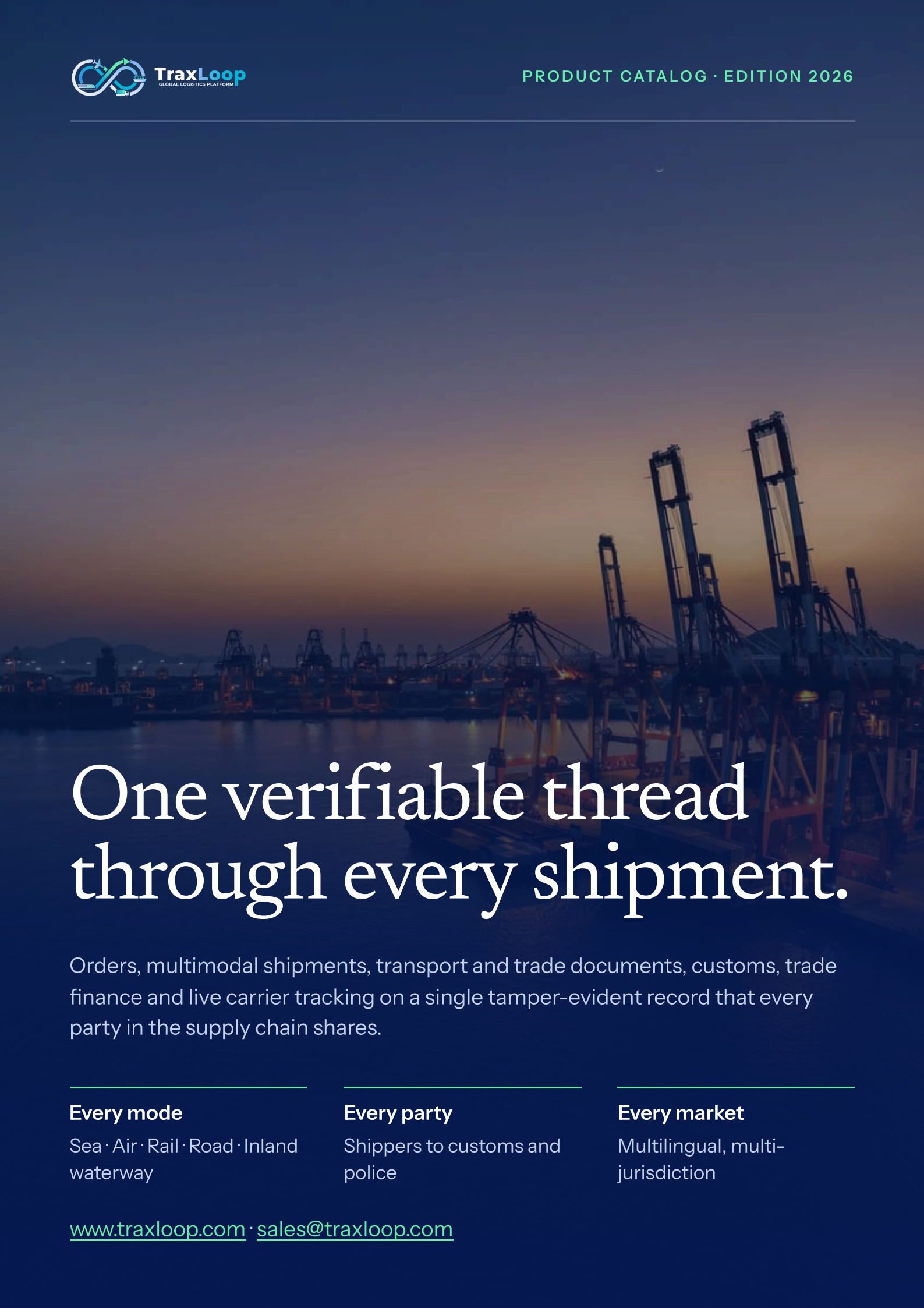




One verifiable thread through every shipment.

Orders, multimodal shipments, transport and trade documents, customs, trade finance and live carrier tracking on a single tamper-evident record that every party in the supply chain shares.

Every mode

Sea · Air · Rail · Road · Inland
waterway

Every party

Shippers to customs and
police

Every market

Multilingual, multi-
jurisdiction

www.traxloop.com · sales@traxloop.com

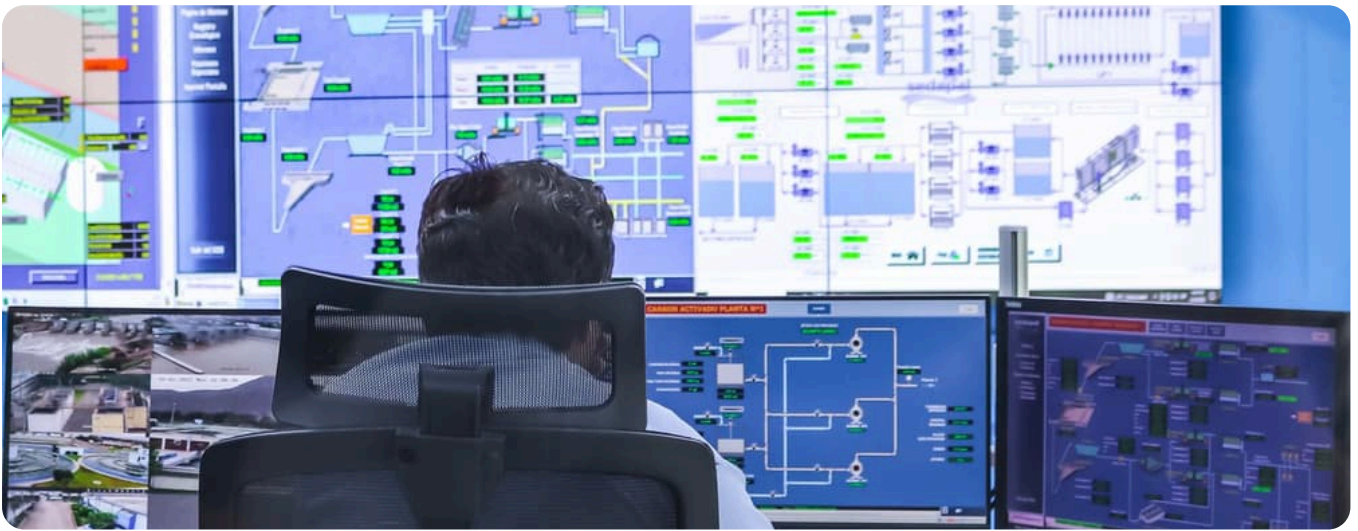
Inside this catalog

Executive overview	03	The challenge	04
The platform at a glance	05	Lifecycle and architecture	06
One ecosystem, every party	07	Module 01 · Orders and commercial terms	08
Module 02 · Multimodal shipments	09	Module 03 · Transport documents	10
Module 04 · Trade documents and validation	11	Module 05 · Document verification	12
Module 06 · Tracking and carrier connectivity	13	Module 07 · Customs, compliance and TIR	14
Module 08 · Trade finance	15	Module 09 · Costs and amendments	16
Module 10 · Multilingual by design	17	Module 11 · Collaboration and insight	18
Module 12 · Roadside inspection and drivers	19	Security, governance and trust	20
Interoperability and standards	21	Deployment and global flexibility	22
Solutions by sector	23	Implementation and partnership	24
Why TraxLoop	25		

TraxLoop is the collaborative operating layer for cross-border trade: one record, shared by every party, verifiable by anyone entitled to rely on it.

Cross-border logistics, closed into one loop.

A consignment involves a dozen organizations, several jurisdictions and dozens of documents. Each party keeps its own version of the truth, and every hand-off is a source of delay, cost and risk. TraxLoop replaces that patchwork with one collaborative record.



One shared record

Data captured once at source and reused by every party and document.

Verifiable by design

Hash-sealed revisions and a signed QR code on every issued document.

Truly multimodal

Sea, air, rail, road and inland waterway in one door-to-door shipment.

Global by default

Sixteen interface languages, right-to-left scripts, local rules.

Mission. To give every party in international trade one trusted, shared record of the goods, the documents and the money, so that cargo moves at the speed of information.

Global trade still runs on fragmented data and paper.

The goods move on modern vessels and aircraft; the information that governs them too often moves by email attachment, spreadsheet and courier.



Siloed systems

Every party holds a partial copy, reconciled by hand at each hand-off.

Fraud risk

No fast, independent way to confirm that a document is genuine.

Limited visibility

Milestones scattered across carrier portals and formats.

Document discrepancies

Inconsistent weights, counts or containers trigger holds and refusals.

Regulatory complexity

Filing cut-offs, languages and transit regimes differ by country.

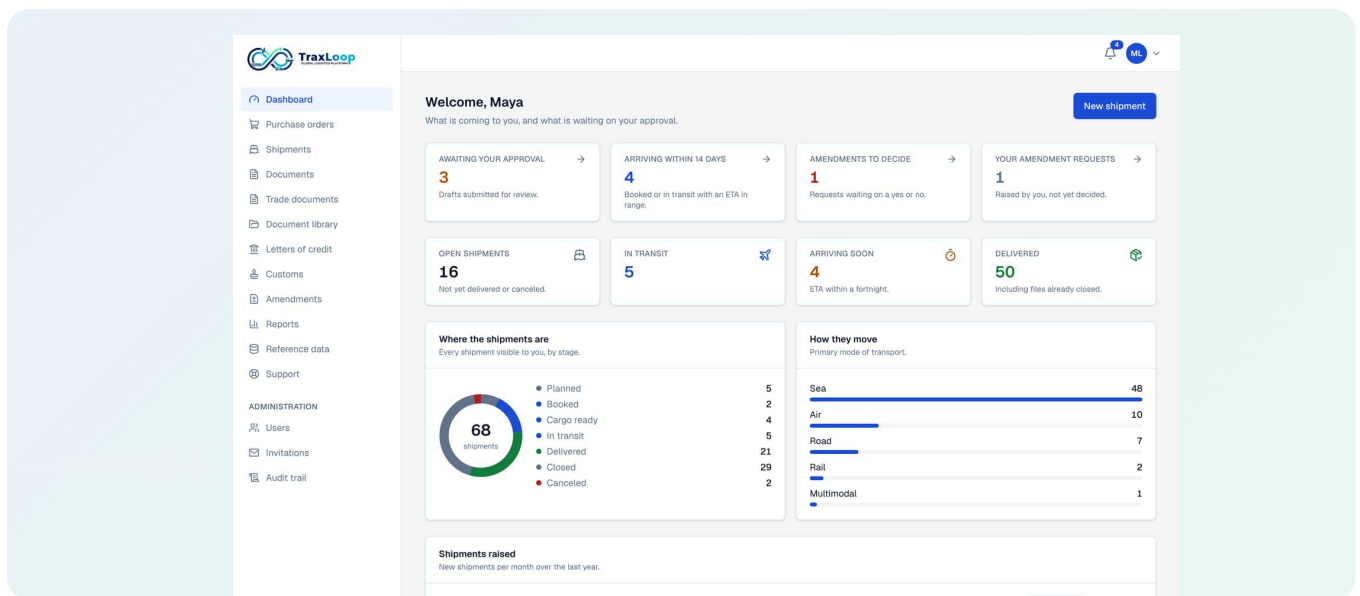
Hidden cost leakage

Demurrage, detention and amendment fees surface late.

The TraxLoop answer. One permissioned record of the trade: captured once, validated across documents, sealed on approval, verifiable by QR and governed by an immutable audit trail.

Enterprise scope. One coherent platform.

TraxLoop covers the full documentary and operational lifecycle of an international consignment, built as one data model rather than a federation of point solutions.



6

Transport modes

12

Transport document types

24

Carrier connectors

16

Interface languages

12

Stakeholder types

16

Incoterms® rules

One record, every party, every mode, every market. Data captured once and reused everywhere; role- and party-scoped access; door-to-door routing; rules and reference data per jurisdiction.

From purchase order to proof of delivery, in one loop.

Each stage writes to the same record. Each document is derived from what precedes it and validated against what exists, so information gains integrity as the consignment advances.

- | | |
|---|---|
| 1 Order
PO, lines, Incoterms® | 2 Book and route
Legs, carriers, equipment |
| 3 Document
B/L, AWB, CMR, invoice | 4 Validate and seal
Cross-checks, lock, hash |
| 5 Verify
Signed QR, live status | 6 Clear
Customs, deadlines, TIR |
| 7 Finance and settle
Letters of credit, costs | 8 Track and deliver
Carrier feeds, milestones |

Platform architecture

Experience

Responsive portal, phone camera scanner, 16 languages, public verification pages.

Trusted data

Immutable revisions, SHA-256 sealing, ES256 signatures, audit trail.

Workflow and rules

Approval loops, consistency engine, lock tiers, deadline engine.

Integration

Carrier APIs, DCSA, IATA ONE Record, UN/CEFACT, JSON, CSV.

Built for every participant in the chain of custody.

Each organization joins TraxLoop as what it is. Its type decides the roles it may play on a shipment; its users' roles and access modules decide what they may do.

Buyers and consignees

Review, approve, monitor inbound supply.

Freight forwarders

Routing, house bills, consolidation.

Customs brokers

Shared packets and filings.

Banks

Credits, examinations, discrepancies.

Inspection agencies

Certificates and results.

Truckers

First- and last-mile road legs.

Suppliers and shippers

Draft, pack, invoice and dispatch.

Carriers

Master documents and milestones.

Customs authorities

Verification and roadside checks.

Insurers

Cargo and document data for cover and claims.

Warehouses

Receipt, storage and release.

Police

Drivers' papers and seals at the roadside.

Seven roles, eight access modules. Platform administrator, product manager, organization administrator, editor, approver, viewer and driver. A user sees a shipment only when their organization is a named party to it or has been shared a document for a stated purpose.

Orders and commercial terms

Purchase orders, line items and Incoterms® rules are recorded once and flow downstream into shipments, documents, costs and finance, with no re-keying.



Structured purchase orders

Parties, currency, payment terms and line-level goods data.

Consolidation and splits

Many orders in one shipment, or one order across several.

Validation at entry

ISO 4217 currencies and HS tariff codes checked as you type.

Incoterms® intelligence

2020 rules and legacy 2010 terms drive the split of cost and risk.

Finance-ready

Orders under a documentary credit are linked to it from the outset.

Full traceability

Every change attributed, time-stamped and kept.

Outcome. One commercial reference shared by buyer, seller and every service provider, with fewer discrepancies downstream.

Multimodal shipment orchestration

Model any movement, from a single parcel to a four-mode, door-to-door transit, as one shipment with ordered legs, each with its own mode, carrier, route and status.



1 Factory → inland terminal
Road · first mile

2 Inland terminal → port
Rail · block train

3 Port of loading → port of discharge
Sea · FCL

4 Port → place of delivery
Road · last mile

Complete party model

Shipper, consignee, notify party, forwarder, carrier, broker, insurer.

Equipment

Thirteen container types with ISO 6346 check-digit validation.

Every service type

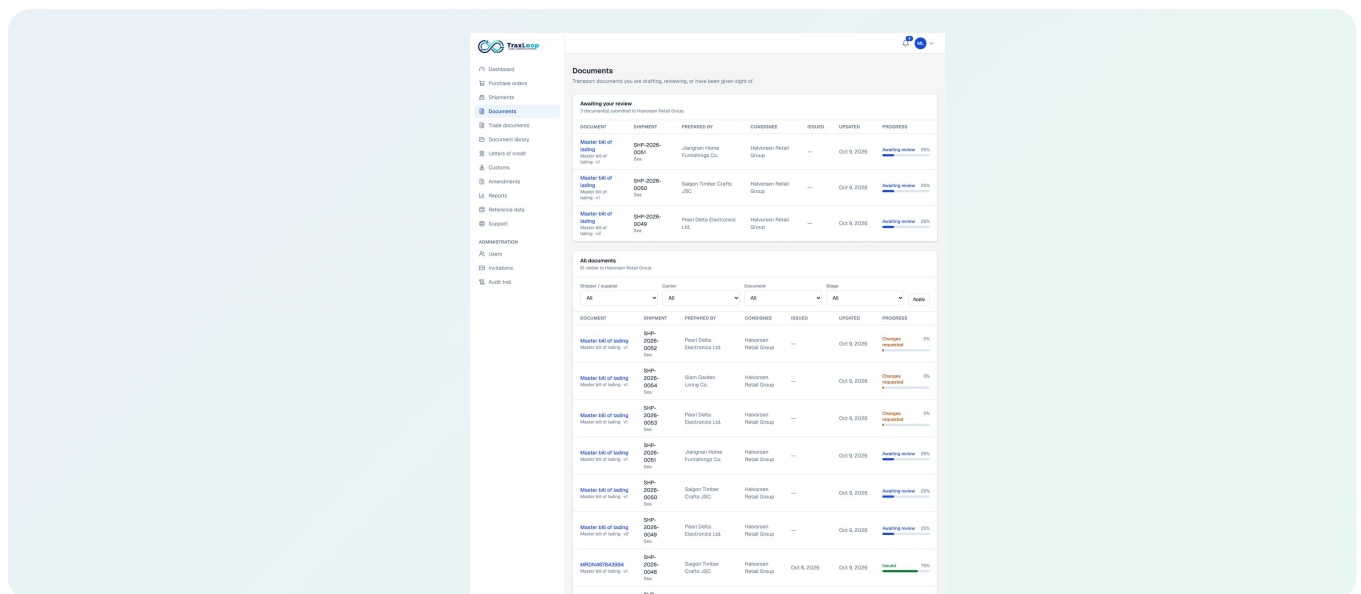
FCL, LCL, break-bulk, Ro-Ro, air, FTL, LTL, rail and parcel.

Global reference data

UN/LOCODE ports, terminals, depots, borders and customs offices.

Collaborative transport documents

Draft, negotiate, approve and issue transport documents together, with every revision frozen and every comment traceable.



Twelve document types

Bills of lading, sea and air waybills, CMR, CIM, SMGS, FIATA FBL, TIR.

Intelligent pre-fill

Parties, routing, packages and goods drawn from the shipment.

Field-level change requests

Reviewers comment on individual fields; every round is kept.

Segregation of duties

No organization approves its own draft.

Immutable revisions

Approved documents are frozen and reproducible to the byte.

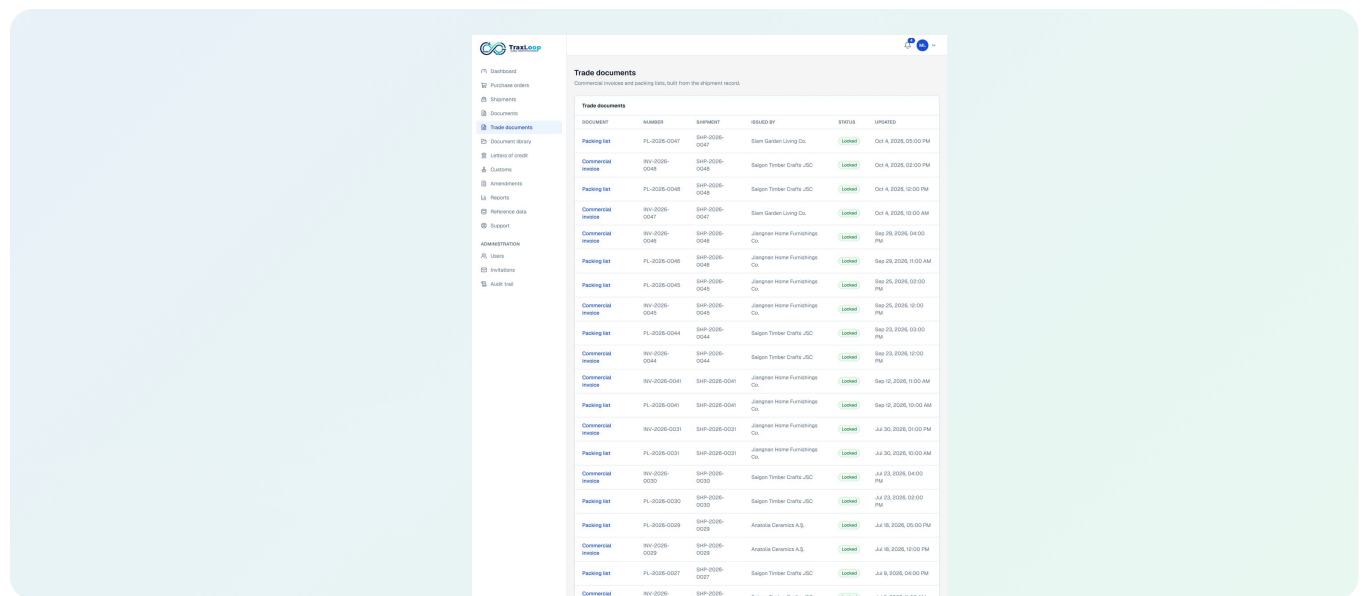
Purpose-bound sharing

Packets for clearance, LC presentation or insurance.

Draft → Submitted → Changes requested → Approved → Issued → Surrendered → Released

Trade documents and cross-document validation

Invoices, packing lists and cargo manifests are generated from the shipment, reconciled with one another and sealed before a discrepancy can reach a customs officer or a bank.



DOCUMENT	NUMBER	SHIPMENT	ISSUED BY	STATUS	UPDATED
Packing list	PL-2025-0047	SHIP-2025-0047	Sam Garden Living Co.	Locked	Oct 4, 2025, 05:00 PM
Commercial invoice	INV-2025-0045	SHIP-2025-0045	Sam Garden Living Co.	Locked	Oct 4, 2025, 02:00 PM
Packing list	PL-2025-0048	SHIP-2025-0048	Sam Garden Living Co.	Locked	Oct 4, 2025, 10:00 AM
Commercial invoice	INV-2025-0047	SHIP-2025-0047	Sam Garden Living Co.	Locked	Oct 4, 2025, 10:00 AM
Packing list	PL-2025-0046	SHIP-2025-0046	Jiangnan Home Furnishings Co.	Locked	Sep 26, 2025, 04:00 PM
Commercial invoice	INV-2025-0046	SHIP-2025-0046	Jiangnan Home Furnishings Co.	Locked	Sep 26, 2025, 04:00 PM
Packing list	PL-2025-0045	SHIP-2025-0045	Jiangnan Home Furnishings Co.	Locked	Sep 26, 2025, 04:00 PM
Commercial invoice	INV-2025-0045	SHIP-2025-0045	Jiangnan Home Furnishings Co.	Locked	Sep 26, 2025, 04:00 PM
Packing list	PL-2025-0044	SHIP-2025-0044	Sam Garden Living Co.	Locked	Sep 26, 2025, 04:00 PM
Commercial invoice	INV-2025-0044	SHIP-2025-0044	Sam Garden Living Co.	Locked	Sep 26, 2025, 04:00 PM
Packing list	PL-2025-0041	SHIP-2025-0041	Jiangnan Home Furnishings Co.	Locked	Sep 10, 2025, 11:00 AM
Commercial invoice	INV-2025-0031	SHIP-2025-0031	Jiangnan Home Furnishings Co.	Locked	Jul 30, 2025, 01:00 PM
Packing list	PL-2025-0031	SHIP-2025-0031	Jiangnan Home Furnishings Co.	Locked	Jul 30, 2025, 01:00 PM
Commercial invoice	INV-2025-0030	SHIP-2025-0030	Sam Garden Living Co.	Locked	Jul 23, 2025, 04:00 PM
Packing list	PL-2025-0030	SHIP-2025-0030	Sam Garden Living Co.	Locked	Jul 23, 2025, 04:00 PM
Commercial invoice	INV-2025-0029	SHIP-2025-0029	Arakita Ceramics A.S.	Locked	Jul 16, 2025, 05:00 PM
Packing list	PL-2025-0027	SHIP-2025-0027	Sam Garden Living Co.	Locked	Jul 9, 2025, 04:00 PM
Commercial invoice	INV-2025-0027	SHIP-2025-0027	Sam Garden Living Co.	Locked	Jul 9, 2025, 04:00 PM

Consistency engine

Invoice, packing list, transport documents and credit compared.

Errors block

Mismatched weights, counts, parties or seals prevent locking.

Generated, not re-typed

Invoice lines start from order lines.

Ordered locking

Invoice and packing list, then transport documents, then manifest.

Hash-sealed evidence

A SHA-256 digest on every snapshot and PDF.

Print-perfect PDFs

A4 or US Letter, with fonts for Latin, Arabic, CJK and more.

Document verification and anti-fraud

Every locked or issued document carries a QR code. A customs officer, bank examiner or warehouse gate confirms in seconds that it is genuine and current, without an account and without exposing commercial data.



Public tier

Document type, number, revision, issuer and current status.

Never disclosed

Prices, bank details and full goods descriptions stay private.

Live status

Current, superseded, revoked, surrendered or released.

Verifier tier

Authorized organizations also see parties, ports, containers and weight.

Cryptographically signed

ES256 records with published, rotating public keys.

Digital file check

Compare a PDF against the digest on record.

Scope note. Verification confirms what TraxLoop issued and its status. It does not by itself establish title to goods.

Real-time tracking and carrier connectivity

Milestones from container lines, airlines, handlers and parcel networks flow onto each shipment's timeline next to manual and EDI events, in one chronology across every mode.



10

Ocean lines via DCSA Track & Trace

Track by any reference

B/L, booking, container, air waybill or tracking number.

Leg-aware timelines

Events stamped to the right leg; delivery detected automatically.

12

Express, parcel and postal networks

2

Air cargo: Lufthansa Cargo and IATA ONE Record

Planned, estimated, actual

Revised ETAs never mistaken for real events.

Resilient polling

Feeds refreshed every fifteen minutes, with failure reporting.

Customs, compliance and transit

Coordinate export, import and transit declarations with brokers and authorities, anticipate filing cut-offs in any jurisdiction and manage TIR carnets end to end.



Filing management

Each filing tracked to clearance and linked to its exact manifest revision.

Proactive alerts

One "due soon" and one "missed" notice per shipment and rule.

Language rules

The languages each destination requires, checked on drafts.

Deadline engine

Cut-off rules anchored to departure or arrival, with a named regulatory source.

Stale-manifest detection

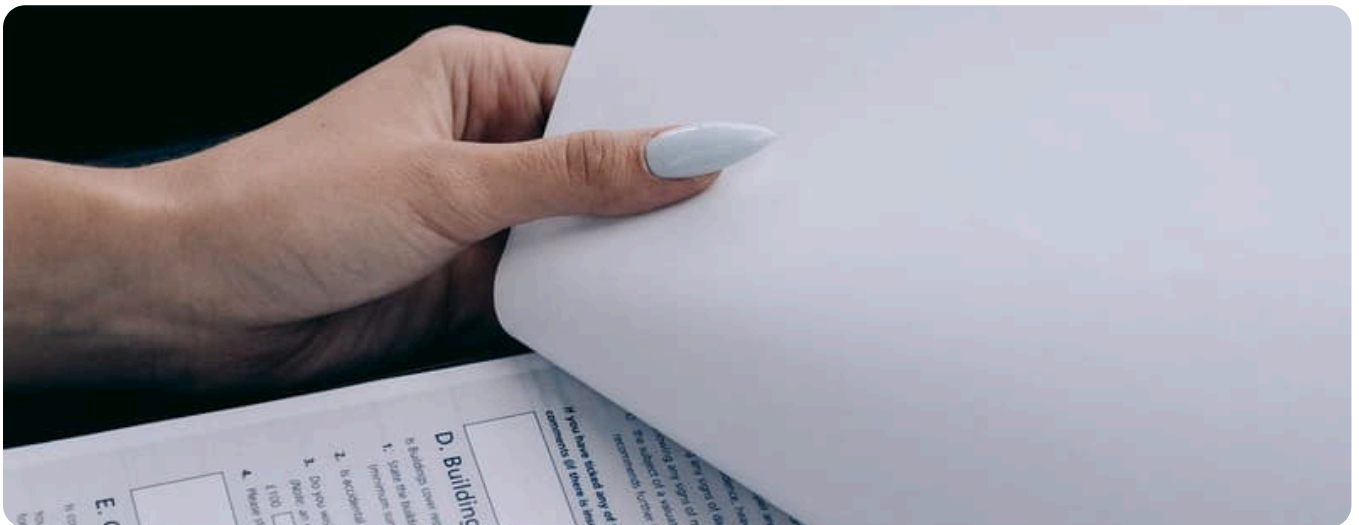
No declaration built on superseded data.

TIR Convention

Full carnet lifecycle with voucher tear-off per customs office.

Trade finance and documentary credits

Bring banks onto the shipment record. Letters of credit are managed through their whole lifecycle, and documents are checked against the credit before they are presented.



Every banking role

Applicant, beneficiary, issuing, advising and confirming bank.

Presentation periods

Tracked from the on-board date under UCP 600 article 14(c).

Discrepancy management

Raised by banks, then waived or resolved on the record.

Credit-to-shipment linkage

One credit over several shipments, or several per order.

Pre-presentation checks

Conflicts with credit terms flagged before documents leave.

Secure packets

Documents shared with the nominated bank, purpose recorded.

Draft · Issued · Advised · Confirmed · Documents presented · Discrepant · Accepted · Paid

Landed cost control and amendments

Every cost, from goods value to demurrage, is accrued against the shipment, allocated by the agreed trade terms and followed from estimate to payment. Every change after booking is requested, priced and decided on the record.



21 cost categories

Freight, surcharges, insurance, duties, VAT/GST, demurrage, storage and more.

Estimate to payment

Estimated, accrued, invoiced, disputed, approved and paid.

Fee schedule

Amendment fees set centrally and posted to the cost ledger.

Incoterms®-based allocation

The default payer of each cost comes from the trade term.

Structured amendments

Each change is a formal request with an owner.

Decision trail

Who requested, who decided and when.

Multilingual by design

The interface, trade documents and invitations work in the language of the people using them, right-to-left scripts included.



16

Interface languages

4

Right-to-left languages

2

Languages per document

Extensible catalog

Administrators add and retire languages without a release.

Bilingual documents

An authoritative language plus one translation, captioned.

AI-assisted translation

Optional drafts, reviewed by a person before locking.

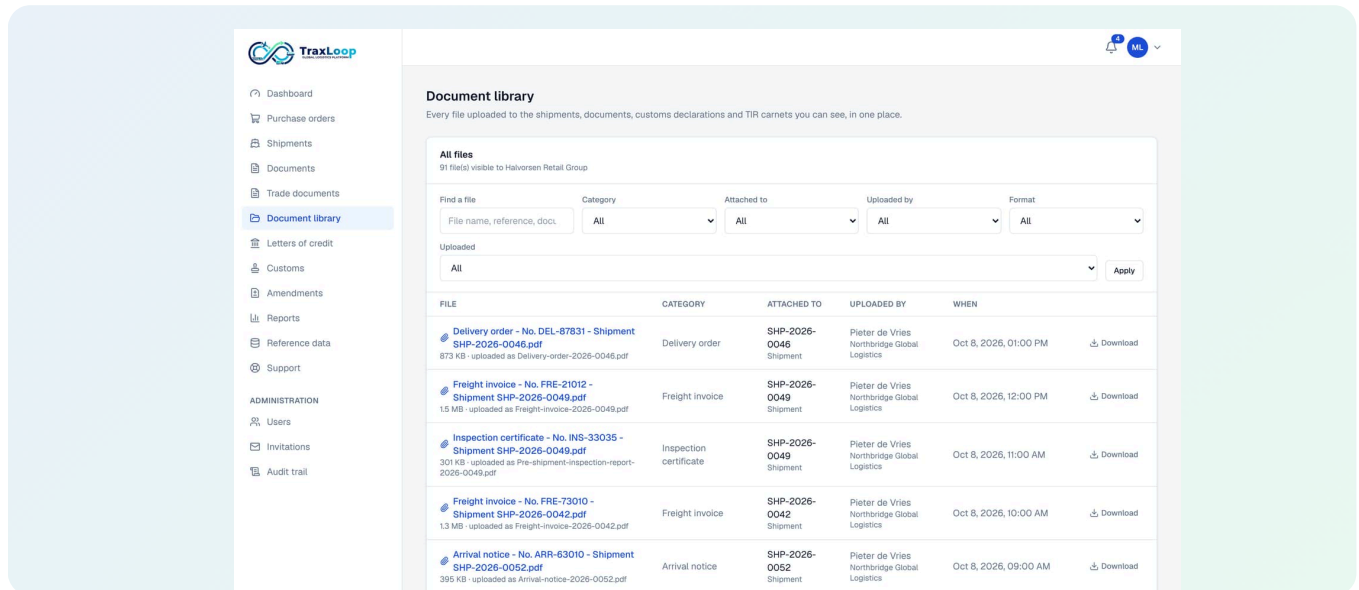
Translation integrity

Edited source text is flagged until reviewed again.

English · العربية · 中文 · Français · Español · Deutsch · Italiano · Русский · Türkçe ·
 فارسی · اردو · Azərbaycanca · Português · עברית · 日本語 · 한국어

Collaboration, visibility and insight

Everything a team needs around the shipment: a searchable document library with version history, notifications, reports, a complete audit trail and integrated support.



Document library

26 categories, from certificates of origin to proof of delivery.

Shipment archive

All files and sealed PDFs as one ZIP download.

Targeted notifications

Approvals, changes, deadlines and tracking events.

Version history

Re-uploaded files keep their earlier versions.

Dashboards and reports

Exportable to CSV for any BI tool.

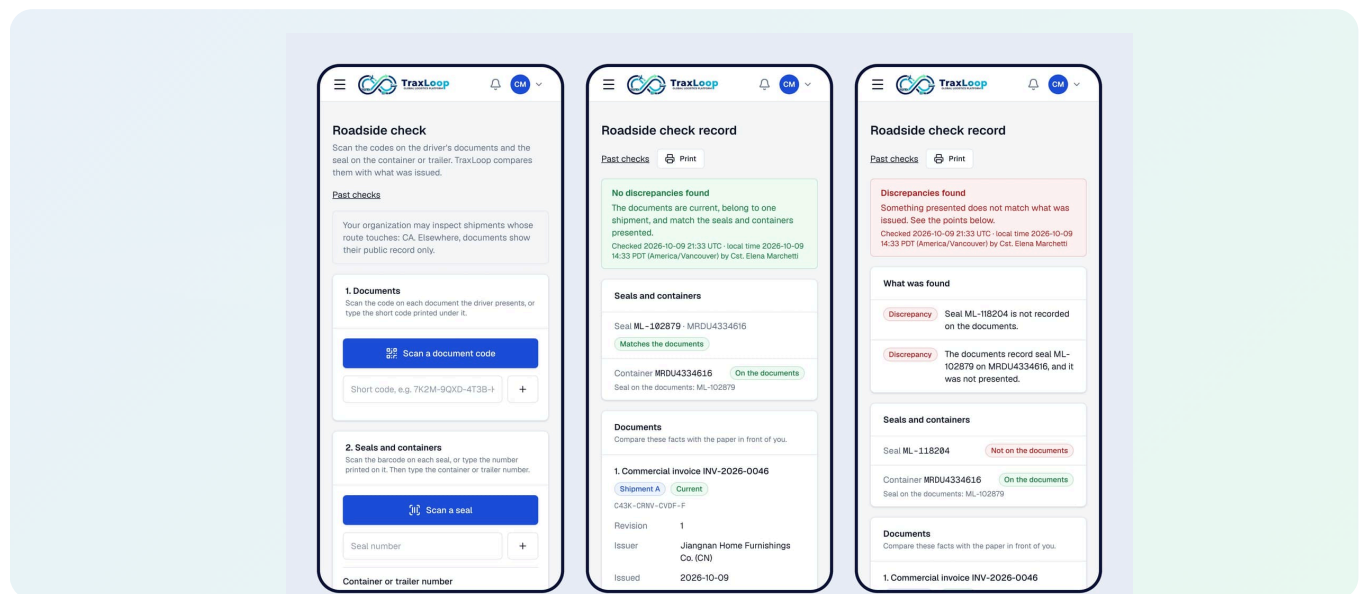
Support desk

Issues and requests raised in context, with severity.

On the roadmap: AI insight. Building on the validated shipment record, TraxLoop is developing AI capabilities to surface risk, anomalies and recommendations.

Roadside inspection and driver access

Customs and police scan the codes on a driver's papers and the seal on the container from a phone, and TraxLoop compares them with what was issued.



Phone-first scanning

In-browser camera scanner, no app to install.

Vetted authorities

Each agency reaches only shipments whose route touches its countries.

Evidence-grade records

Each check signed and kept for seven years.

Six questions answered

Genuine, current, one shipment, matching seal and container.

Forgery-resistant

Codes pointing to any other website are flagged as foreign.

Driver access

Assigned per shipment, or a PIN-protected link for up to 30 days.

Scope note. A matching seal number confirms the number only, not the physical integrity of the seal or the cargo.

Security engineered into every layer.

Trade data is commercially sensitive and legally consequential. TraxLoop treats identity, authorization, integrity and accountability as core product features.



Identity

Invitation-only onboarding; MFA with recovery codes, mandatory for privileged roles.

Integrity

Immutable revisions, SHA-256 sealing, ES256-signed verification records.

Authorization

Tenant isolation, seven roles, eight access modules, party-scoped visibility.

Accountability

An audit trail that outlives the users it records; strict segregation of duties.

Aligned with the bodies that govern world trade.

TraxLoop speaks the industry's languages, so it connects to the systems your partners already run, and your data is never locked in.

STANDARD	BODY	USE IN TRAXLOOP
DCSA eBL 3.0.4	DCSA	Bill-of-lading data export
DCSA Track & Trace v2	DCSA	Ocean milestones
ONE Record	IATA	Air cargo data exchange
Cross Industry Invoice	UN/CEFACT	Structured invoice export
UN/LOCODE	UNECE	Ports, terminals and places
ISO 6346 · 4217 · 3166	ISO	Containers, currencies, countries
Harmonized System	WCO	Tariff code validation
Incoterms® 2020 · UCP 600	ICC	Trade terms, documentary credits
FIATA FBL	FIATA	Multimodal bill of lading
CMR · TIR	UNECE · IRU	Road consignment, customs transit
CIM · SMGS	OTIF · OSJD	Rail consignment notes

Standards describe alignment of data models and workflows; they do not imply certification or endorsement by the bodies named.

Deploy anywhere. Configure for any market.

Whether you are a regional forwarder, a multinational shipper or a national customs administration, TraxLoop adapts to your infrastructure, jurisdiction and governance.



TraxLoop Cloud

Multi-tenant SaaS on a global edge network. Fastest time to value.

Dedicated Cloud

A single-tenant instance in the region of your choice, for data residency.

Sovereign

On-premises or in-country, for customs administrations, ports and single windows.

Configurable without code

Languages and document language rules · filing-deadline rules per regime · vetted inspection authorities · organization types, roles and access · reference data · amendment fees and paper sizes · carrier connectors, PDF rendering and AI translation.

Distinct value for every participant.



Importers and exporters

One view of every order; documents right first time; true landed cost.

Carriers and operators

Fewer amendments; verifiable bills, surrender and release.

Banks and insurers

Lower fraud exposure; fewer discrepant presentations.

Forwarders and 3PLs

Multimodal orchestration; house and master documents in one workflow.

Customs brokers and authorities

Validated packets; roadside checks from a phone.

Governments and corridors

Sovereign deployment; a foundation for paperless trade.

Industry-agnostic. Manufacturing, retail, automotive, agri-food, pharmaceuticals, energy and commodities: wherever goods cross a border, the same record applies.

A disciplined path from discovery to scale.

Each program is scoped to the client's trade lanes, partners and regulations, and proves its value on a live lane before it expands.



1 Discover

Lanes, parties, documents, systems and obligations.

3 Integrate

Carrier connectors and exchange with ERP, TMS and partners.

5 Scale

Further lanes, modules, regions and partners.

2 Configure

Organizations, roles, languages and jurisdictional rules.

4 Launch

A pilot on a live lane; counterparties invited and trained.

Typical first phase. One trade lane, its buyer and supplier, the forwarder and customs broker, the relevant documents and live carrier tracking.

Eight reasons organizations choose TraxLoop.

One record, every party

One permissioned record replaces a dozen copies.

Validation before presentation

Discrepancies stopped at source.

Language-native

Sixteen languages and bilingual documents.

Deploy anywhere

Cloud, dedicated or sovereign.

Verifiable by anyone

Signed QR verification with tiered disclosure.

Every mode, door to door

Sea, air, rail, road and inland waterway.

Standards-aligned

DCSA, IATA, UN/CEFACT, ICC and UNECE.

Governance-grade

MFA, sealed revisions, full audit trail.

Engagement models

1

Discovery workshop

Your lanes, documents and partners, with a solution blueprint.

2

Lane pilot

Live on one lane with real counterparties and agreed success criteria.

3

Enterprise program

Multi-lane, multi-region rollout with dedicated success management.

Let's close the loop on your supply chain.

Arrange a discovery session to see how TraxLoop can serve your trade lanes, your partners and your markets.

Sales

sales@traxloop.com

Web

www.traxloop.com

Partnerships

connect@traxloop.com

Client portal

portal.traxloop.com
