COMPLETE SOFT

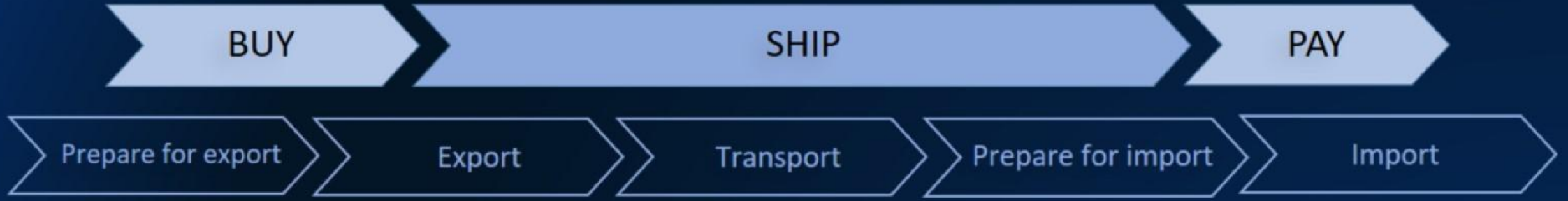
Core solution for the national Digital Transport & Logistics Platform

serving intermodal cargo transportation and cross-border information exchange in transport corridors

Bishkek 18.11.2025

Siarhei Voinich

The foundation for building digital supply chains and transport corridors



Marketing procedures

- Promotion of goods to foreign markets
- Finding a partner and establishing contact
- Conclusion of a supply contract

Commercial procedures

- Order of goods (s). Coordination
- Delivery advice
- Payment Request
- Packaging / Warehousing
- Shipment formation
- Shipping Instructions

Logistics / transport procedures

- Establishing contact with the transporter / choosing a carrier / forwarding
- Conclusion of a contract for transportation
- Collection, transportation and delivery of goods (cargo) / delivery monitoring
- Provision of shipping and transport documents, current reports on the status of delivery of goods, etc.

Regulatory procedures

- Obtain Import/Export licenses, etc.
- Submission of customs declarations
- Registration of foreign exchange transactions
- Providing cargo declarations
- Application of trade security procedures
- Clearing goods from export duty

Financial procedures

- Credit rating
- Provision of insurance
- Deal financing
- Pre-export financing
- Making payment upon delivery
- Release of reports

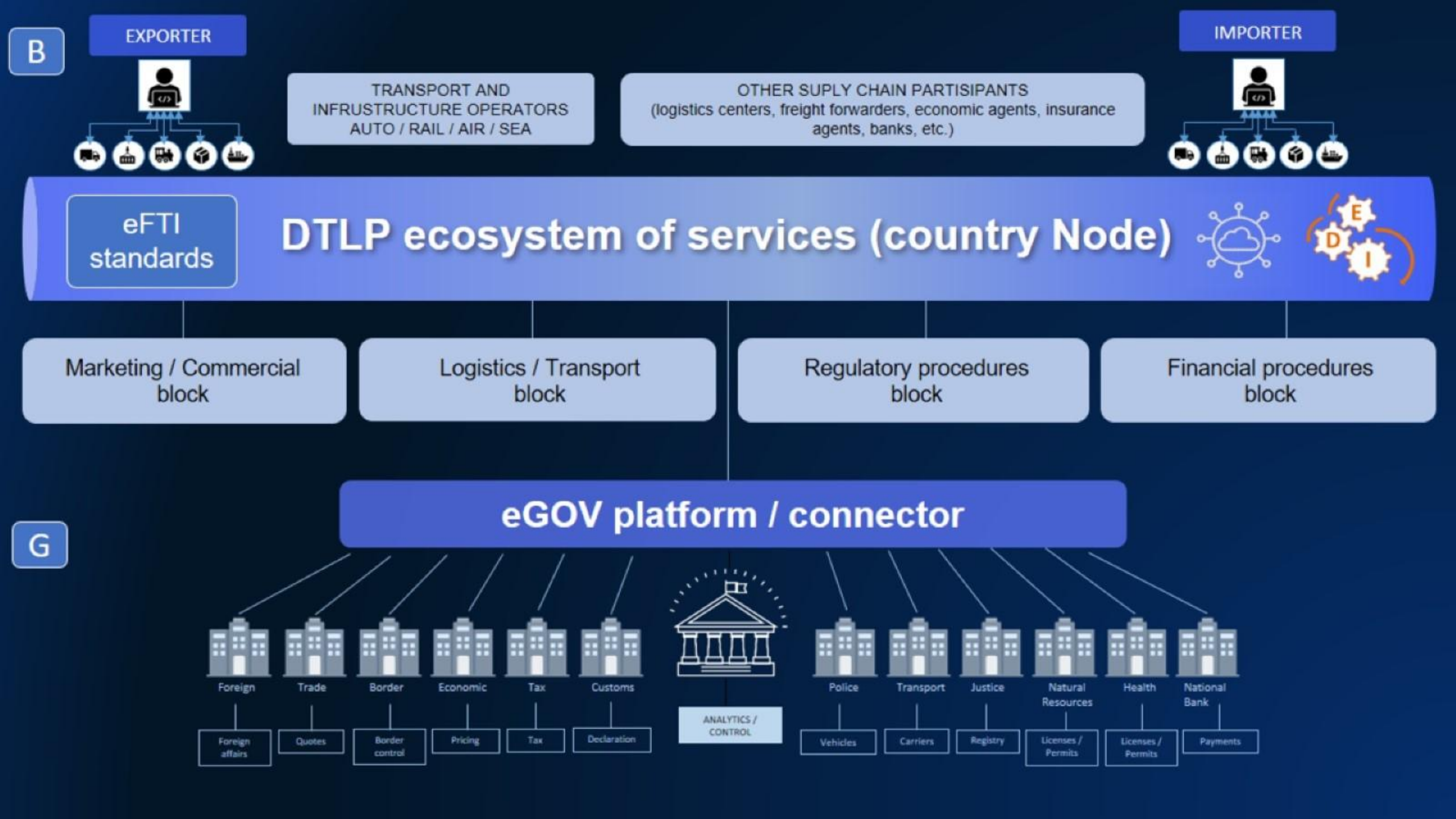
Towards a Digital Transport Corridor

Digital Transport Corridor

A system that generates sets of documents in electronic form

And not just a set of electronic services…

DTLP+NCEL: Concept


B
EXPORTER
IMPORTER
TRANSPORT AND INFRUSTRUCTURE OPERATORS AUTO / RAIL / AIR / SEA
OTHER SUPLY CHAIN PARTISIPANTS (logistics centers, freight forwarders, economic agents, insurance agents, banks, etc.)
eFTI standards
DTLP ecosystem of services (country Node)
E
D
I
Marketing / Commercial block
Logistics / Transport block
Regulatory procedures block
Financial procedures block
G
eGOV platform / connector
Foreign
Trade
Border
Economic
Tax
Customs
ANALYTICS / CONTROL
Police
Transport
Justice
Natural Resources
Health
National Bank
Foreign affairs
Quotes
Border control
Pricing
Tax
Declaration
Vehicles
Carriers
Registry
Licenses / Permits
Licenses / Permits
Payments

DTLP ecosystem of services

EXPORTER

IMPORTER

DIGITAL MARKET OF FREIGHT CARGO

TRACKING & MONITORING

DISPUTE RESOLUTION

REFERENCE INFORMATION AND STANDARDS

BUSINESS INTELLIGENCE

DATA EXCHANGE & SHARING (EDI / Register / Blockchain services)

OTHER DIGITAL SERVICES SHOWCASE

Data Pipeline

INSURANCE

FINANCIAL TOOLS AND PAYMENTS

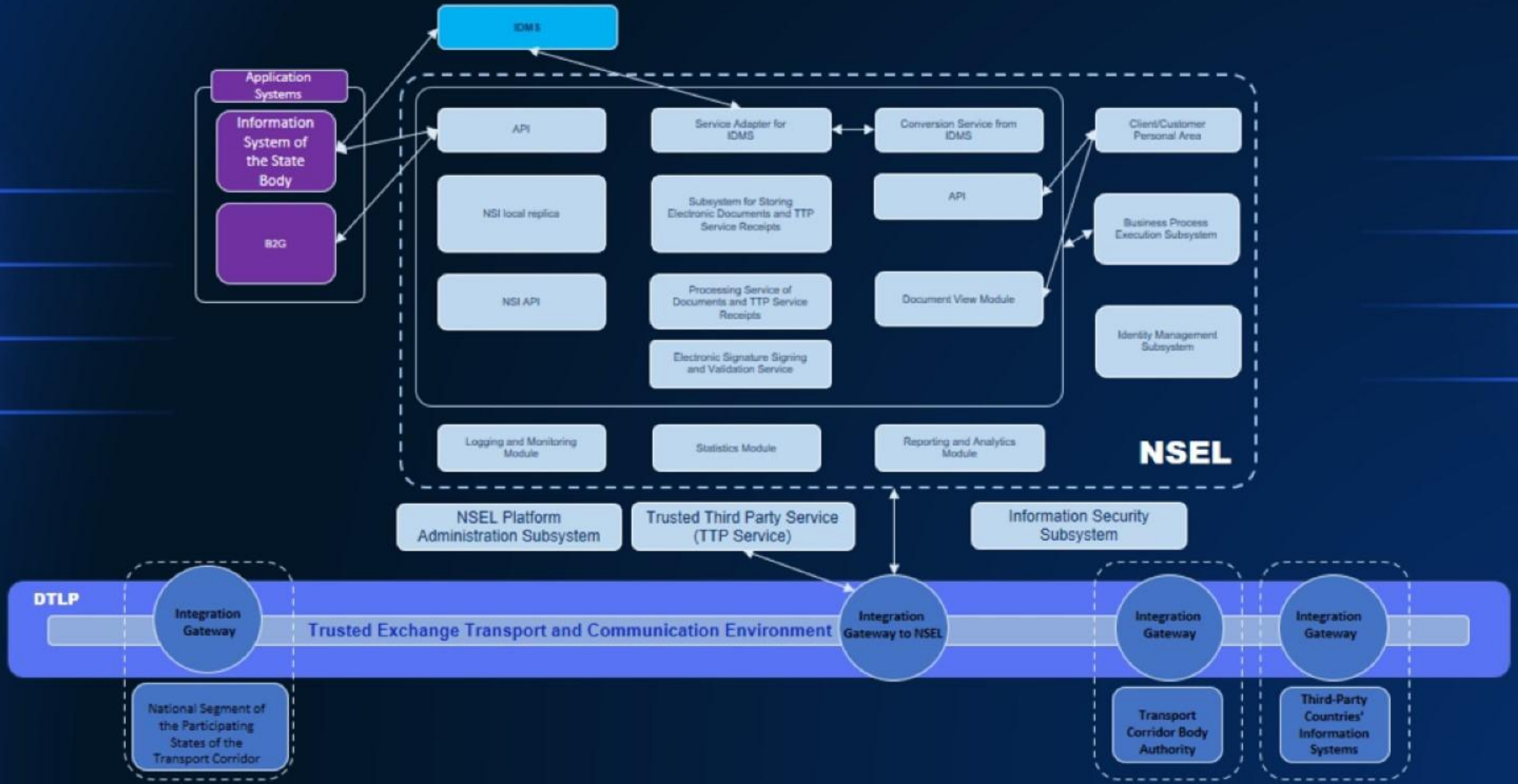
THE MAIN LOGISTICS DOCUMENTS - eDOC

eCMR	eSMGS/eCIM	eAirWaybill
ePacking list	eGoods Receipt	eInvoice
eATA Carnet	eManifest	eHazardous
eCertifitate of Origin	eVeterinary certificate	
ePhytosanitary certificate	e Other	

completesoft.net

COMPLETE SOFT

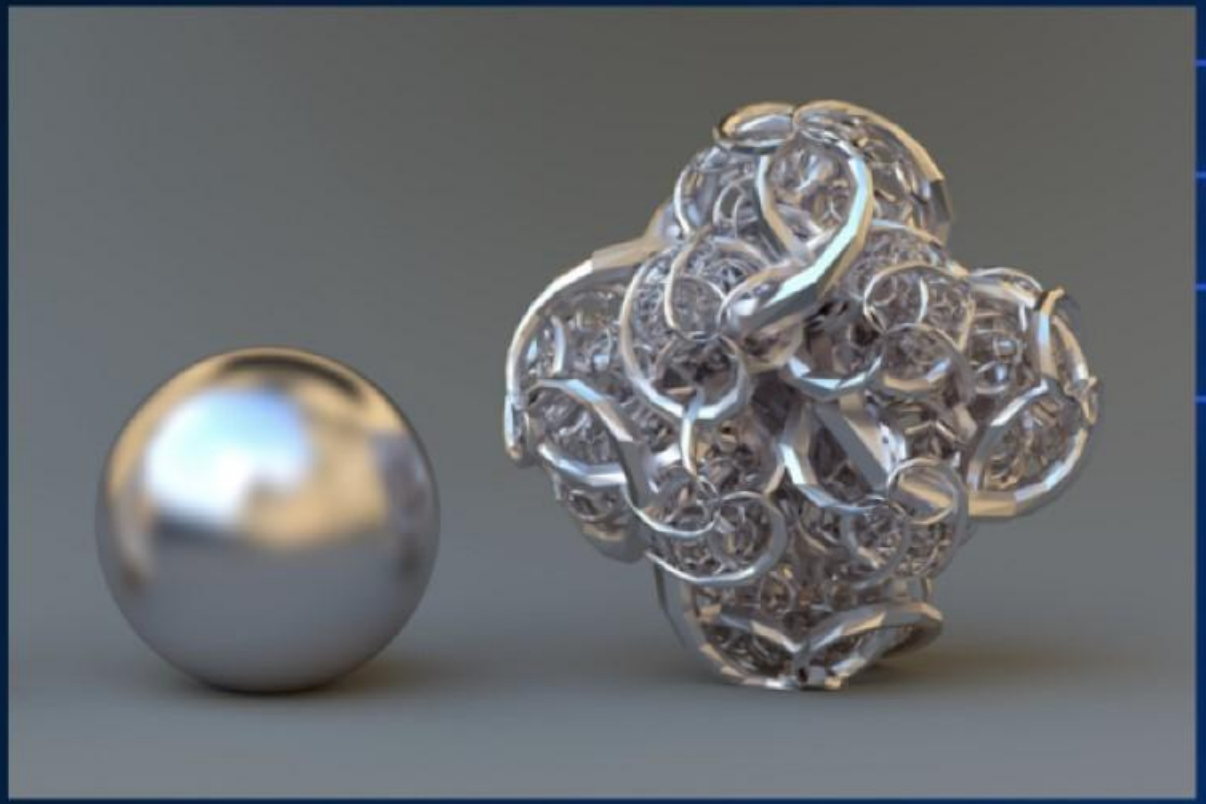
Architecture for Implementing Common Logistics Processes within the DTLP + NSEL Framework



Gall's Law

Any working complex system evolves from a working simple system.

Complex systems, created from scratch, will never work in the real world because the selection factors inherent to the environment did not influence them during the development process.



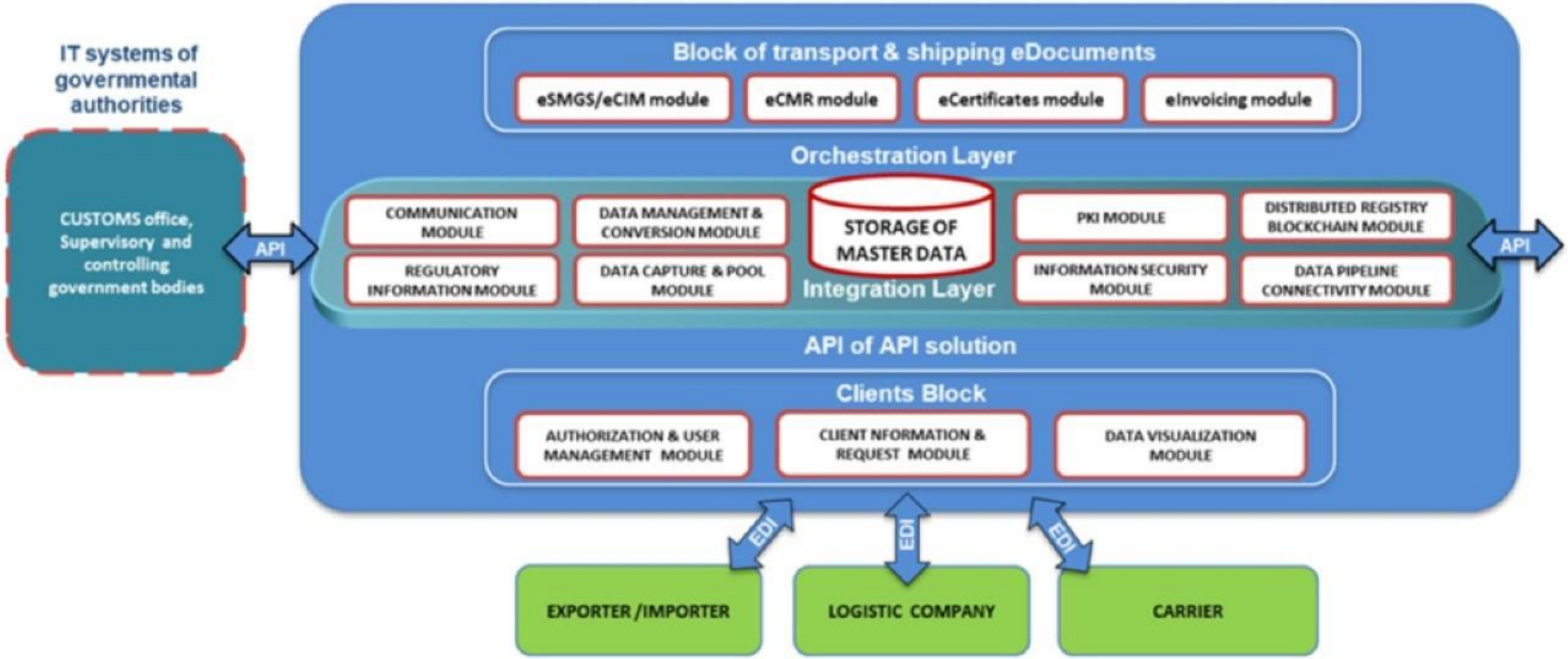
Focus Areas in Supply Chain Digitization

Key 1: **End-to-End Identification Across All Systems** — For both trading entities (participants in supply chains) and trade objects (goods, services, intellectual property) — achieved through the use of international standards.

Key 2: **System Interoperability** — Ensuring the ability of different systems to interact and exchange information seamlessly.

Key 3: **Electronic Data Exchange** Between All Participants and Systems — Prioritizing structured data exchange to enable system-to-system (S2S) communication and automation across the entire supply chain.

National eLogistics Platforms in the EaP



eLogistics and DTC Working Group

DTLP

Digital Transport and Logistics Platform

DTLP+ML+AI: Function

Digitization of Transport Corridors

Optimization of Logistics and Flow Management

1. Route and Rate Optimization

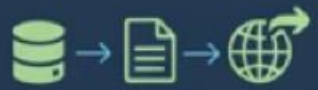
- ML Algorithms;
- Data Analysis

2. Demand and Load Forecasting

- ML: Time Series and Regression;
- Cargo Volume Forecasting.

3. Warehouse and Transshipment Management

- Predictive Machine Learning.



Speed

Accuracy

Transparency

1 Route and Rate Optimization

Leveraging data analysis and automation to select the most efficient transport routes and pricing models.

2 Demand and Load Forecasting

Using predictive models to anticipate cargo volumes and corridor capacity, enabling smarter planning and resource allocation.

3 Warehouse and Transshipment Management

Coordinating storage, cross-docking, and handling operations for seamless cargo movement.

Powered by Machine Learning and Data Analytics:

- ML algorithms for **time series analysis** and **regression modeling**
- **Predictive ML** for cargo volume forecasting and route planning

COMPLETE SOFT

Digitization of Transport Corridors

The Role of AI and ML in Processing Shipping Documents

1.Data Automation

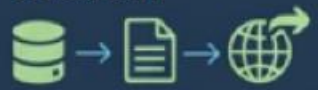
- OCR: Scanning and recognition;
- Computer vision.

2. Smart Verification

- ML: Validation and cross-checking;
- Error prediction.

3. Generation and Translation

- Document Generation: Template-based document creation;
- Neural machine translation.



Speed

Accuracy

Transparency

1 Data Automation

Streamlining document workflows through intelligent data extraction and processing.

2 Smart Verification

AI-driven validation and cross-checking of shipping data to detect inconsistencies and reduce manual errors.

3 Generation and Translation

Automated document creation based on templates and **neural machine translation** for multilingual logistics operations.

Technologies:

- **OCR:** Scanning and recognition using computer vision.
- **ML:** Data validation, reconciliation, and error prediction.

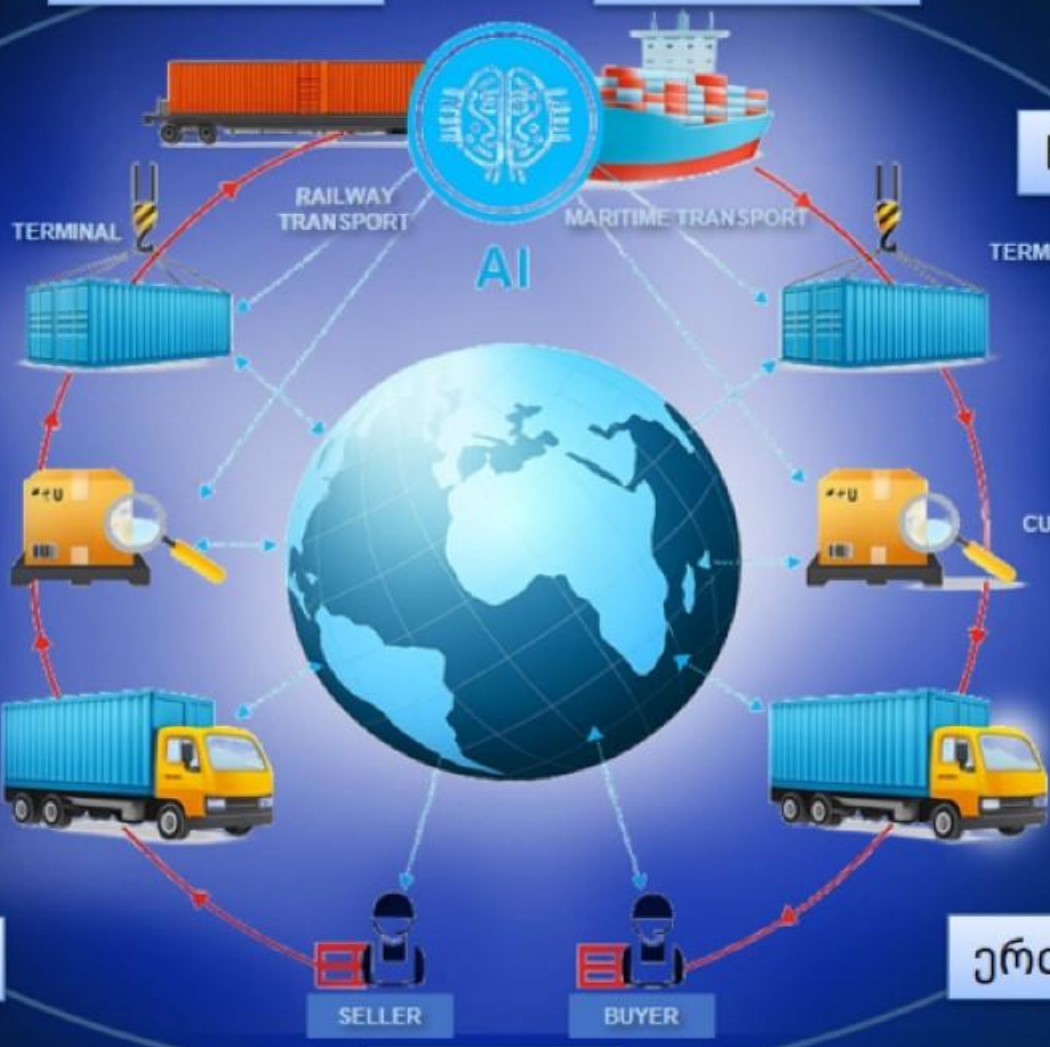
COMPLETE SOFT

Birge

GEMEINSAM

一起

ENSEMBLE



TOGETHER

BMECTE

ՄԻԱՍԻՆ

ერთად

BİRLİKDƏ

COMPLETE SOFT

info@completesoft.net

complete software solutions