ONE Record – Truck/IoT border crossing

Pilot Description

- **Vedia is seeking One Record for air-road transport and especially focusing on IoT aspects and data sharing in multimodal logistics chains**.
  - Data collection from road transport via mobile app, IoT device and back ground systems
  - Data sharing between business and authorities
  - Data sharing between road and air transport
- Automated border crossing pilot between Norway and Finland is the first place where Vedia will adapt One Record
  - Data sharing between road transport, authorities and air cargo

Pilot Participants

More stakeholders will be added soon

Pilot Project Tag Line

Smooth border crossing by data sharing and logistics transparency

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Data Model

Airline Core Ontology

Shipper's Letter of Instruction

Cargo Distribution

CO2 Emission

e-CMR

ULD Tracking

Interactive Cargo (IoT)

Dangerous Goods

Pharmaceutical

Customs (PLACI, ICS2)

Ground Handling

Perishables

API / Security

PUB/SUB

LO update

Access delegation

Security

Status update

Audit trail

Access restriction

Cascading status update - Pub/sub in multi-chain

Data integrity / non repudiation with RDF

SHACL shapes

IoT updates

Rich data

Implementation roadmap

Q1/2021 Vedia 1R server → Finland Norway border crossing pilot Q1/2021 → Q2/2021 Finland Baltics corridor collaboration → Finland – Russia – China corridor collaboration H2/2021

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Pilot Set Up / Architecture