

# ONE Record Cargo Distribution Data Model



## Pilot Description

- To test the cargo distribution process between airline and forwarder using ONE Record standard
- Scope include Booking request and response between airline and forwarder

## Pilot Participants



## Pilot Project Tag Line

**“ The journey towards digital cargo begins with one small step in ONE Record”**

# ONE Record Cargo Distribution Data Model



## 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

## 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

### High Level Timeline

Requirement Study  
Jun 21 – Jul 21

Development  
Aug 21 – Sep 21

End-to-end testing  
Sep 21 – Oct 21



# Flow Diagram

