

# ONE Record – Pilot project profile



## Pilot Description

- Data distribution through new channels: Text, Whatsapp, Rich Communications Service
- Traditional message exchanges moved to 1R server: FWB/FHL/FFM/eCSD
- Pharma tracking – Internet of things (IOT). Provide a central database for participants to be able to enquire on
- Co2 Emissions tracking (End to End).

## Pilot Participants



## Pilot Project Tag Line

**CCS-UK 1R Server**

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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

Live Animals

## 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

*Timeline to be defined*

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## Pilot Set Up / Architecture

- ▶ A Cluster Star network where all data is on JSON Linked Data model and instantly available through Pub/Sub
- ▶ .NET Core (3), Microsoft SQL Server, Windows Server (Backend)
- ▶ Angular 9, Javascript (WebApp)
- ▶ Hosting: Azure Cloud

