



Rail  Data

# AGENDA

❖ Who is Raildata

❖ Our applications and services

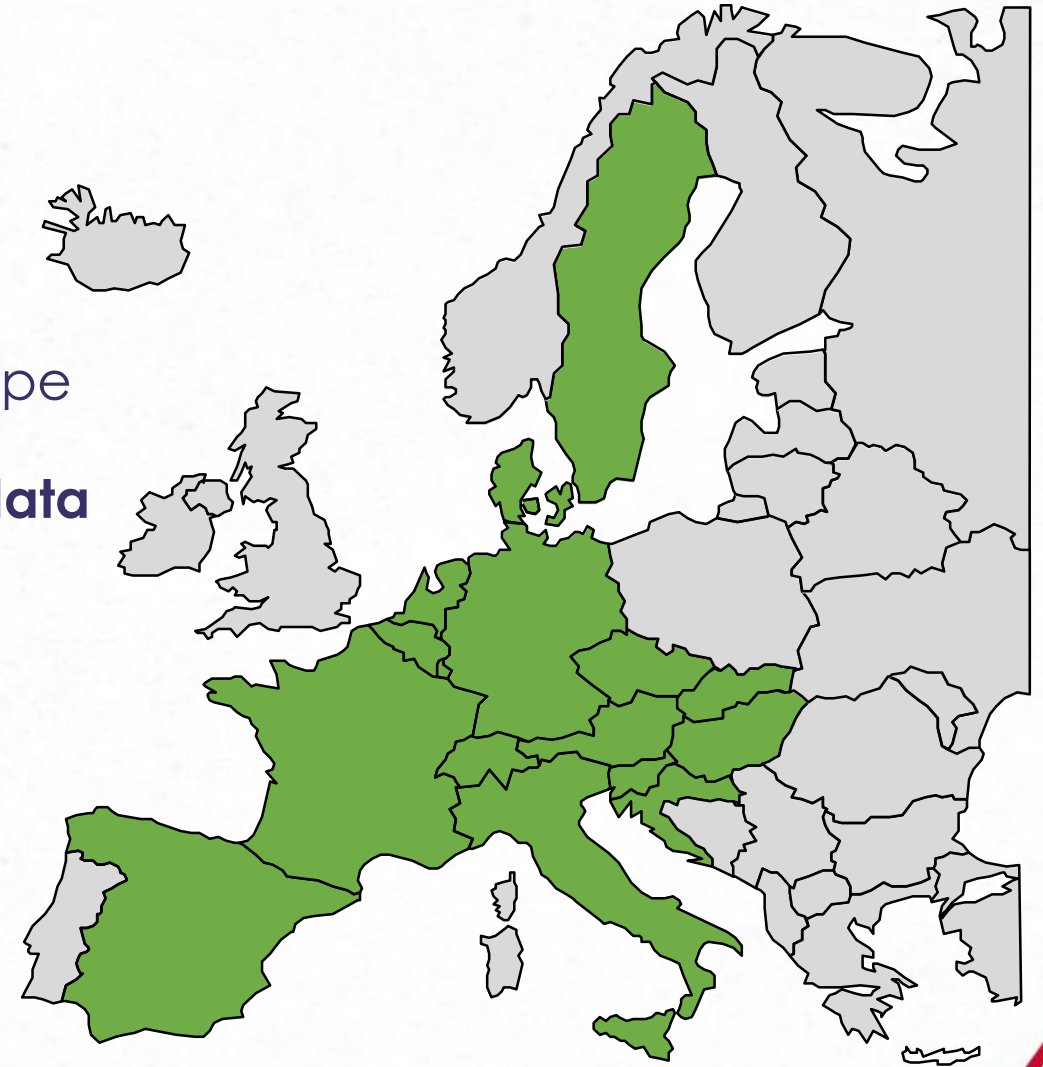
❖ TAF Implementation





# Who is Raildata?

- Special group within UIC since 1995
  - Experts in Rail Freight processes
  - Representing over 70% of yearly ton-km in Europe
- **Our mission : Process optimisation by centralised data exchange**
  - Easy to work together
  - Automated processes => less overhead costs



# How do we contribute to TAF TSI?

- Observer within TAF-TSI Steering Committee since February 2014
- Supports the JSG for RU-RU related functions
- Represented by its board & experts within JSG and JSG SMO
- Preparation of Change Requests for TAF-TSI concerning RU-RU functions (e.g. Wagon movement messages, Consignment order message)

# Our Applications

# ORFEUS

## Making paper consignment notes obsolete

### What?

- Developed under the e-RailFreight project together with UIC, CIT and CER
- Message format and flow for exchanging consignment note information
- Centralised system which handles the logical check and distribution towards all carriers involved
- Online portal where you can print consignment notes

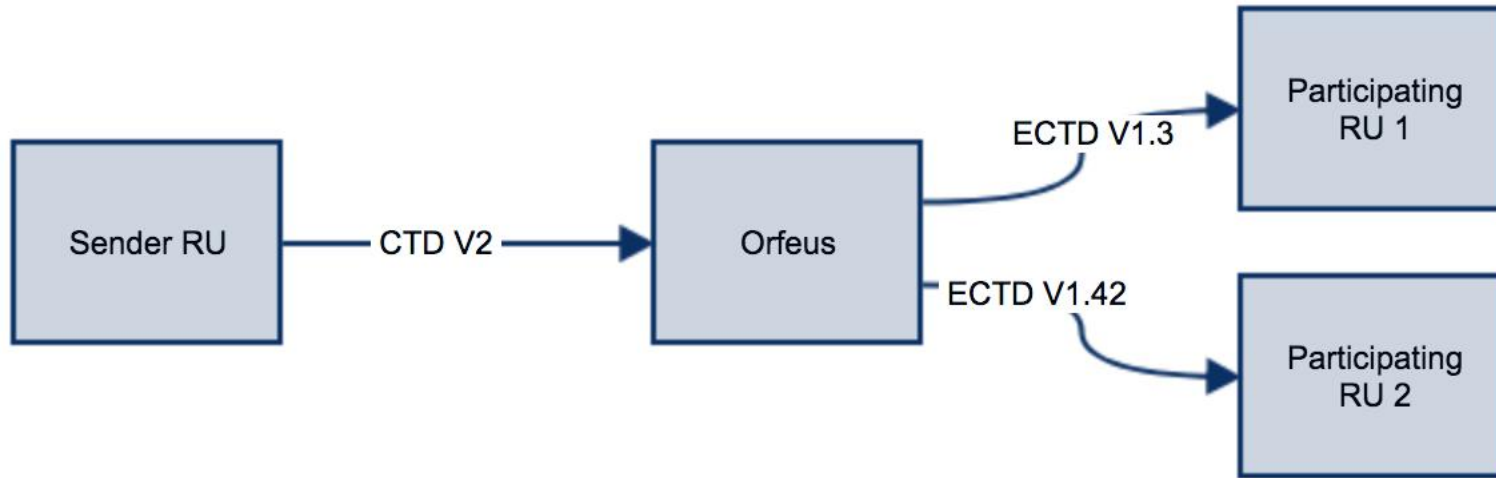
### Benefits

- You can automate the data capture and prevent manual work
- No need anymore to print consignment notes, so saving paper costs and environmentally friendly
- You can give your drivers a digital Consignment Note with them



# ORFEUS

## How it works



- For Electronic Consignment notes, the process is in a sequential way instead of parallel distribution
- These messages contain 100% of the information on the consignment note

# ISR

## Event-driven Track and Trace on wagon level

- Based on events from the railways' operational systems and Train Information System from RNE
- Distributed via :
  - Webportal
  - Realtime webservice
  - Messaging
- Data is also used to calculate mileage for each wagon

Train - 49829				
Departure at origine				
IM	0087			
Date	15.05.2017 19:39			
Train	MP Code	MP Name	Event type	Real Time
49829	87 28654	Tourcoing	Departure	15.05.2017 22:41
49829	87 28654	Tourcoing	Arrival	15.05.2017 22:33
49829	87 28600	Lille-Flandres	Run-through	15.05.2017 22:23
49829	87 28618	La Madeleine (Nord)	Run-through	15.05.2017 22:05
49829	87 28643	Don Sainghin	Run-through	15.05.2017 21:47
49829	87 28643	Don Sainghin	Run-through	15.05.2017 21:47
49829	87 34502	Lens	Run-through	15.05.2017 21:34
49829	87 24176	Triangle-d'Ostricourt	Run-through	15.05.2017 21:23
49829	87 34520	Pont-de-la-Deule	Run-through	15.05.2017 21:16
49829	87 34500	Douai	Run-through	15.05.2017 21:13
49829	87 34500	Douai	Run-through	15.05.2017 21:12
49829	87 34531	Somain	Run-through	15.05.2017 20:57
49829	87 29624	Busigny	Run-through	15.05.2017 20:17
49829	87 29629	Fresnoy-le-Grand	Run-through	15.05.2017 20:11
49829	87 29633	Essigny-le-Petit	Run-through	15.05.2017 20:06
49829	87 29600	St-Quentin	Run-through	15.05.2017 19:56



## CoReDa

- Database which keeps track of the commercial responsibility over a wagon
- Input via a user interface or via messaging
- Developed for and together with the UIC Wagon User Group

## ATTI

- Centralized Quality management system on a European scale
- Increasing the safety and reliability of railway transports
- Developed for UIC

# TAF Implementation

# ORFEUS and TAF TSI Requirements

- TAF TSI initially contained a (electronic) Wagon Order Message
- RAILDATA has proposed to replace this message by a (electronic) Consignment Order Message which is closer to ECN and to the needs of the Freight Railway Undertakings
- The Consignment Order Message is a derivate of the ECN message that will be exchanged among RUs within the frame of TAF TSI . It can be understood as a subcontracting message by the Lead RU to the specific carrier
- The appropriate change requests to TAF TSI have been prepared by RAILDATA and approved by European Commission.
- ORFEUS will be the basis for distribution of “Consignment Order Message” for RAILDATA members



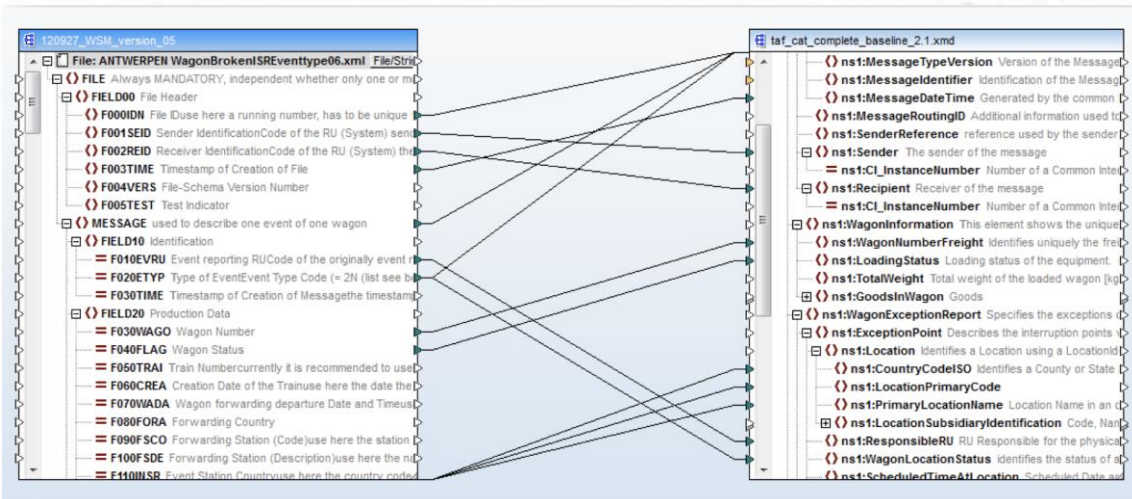
# ISR and TAF Requirements (1)

The events in ISR map perfectly towards the Wagon Movement and Wagon Interchange functions from TAF TSI

ISR	TAF TSI	Description
Create Transport Dossier		subset of consignment note data coming from ORFEUS
Transport Created		reduced consignment note data set sent by enlarged WSM
Left Origin	Wagon Departure Notice Message	first departure of a wagon for a transport (loaded or empty)
Arrival	Wagon Yard Arrival Message	(intermediate) arrival in a handling yard
Departure	Wagon Yard Departure Message	(intermediate) departure in a handling yard
Reached Destination	Wagon Arrival Notice Message	last arrival of a wagon for a transport
Border Crossing Advice	Wagon Interchange Notice Message	train left last station before border crossing
Border Crossing Exit / Entry	Wagon Received At Interchange Message	wagon handed over / taken over to /from carrier
Wagon Broken	Wagon Exception Message	transportation interrupted
Wagon Repaired		continuation of transport
Ready To Pull	Wagon Release Notice Message	wagon loaded at customer
Pulled		wagon pulled from customer
Passed Through		wagon in train has run though a station
Wagon Refused	Wagon Refused At Interchange Message	take over from previous carrier refused
Delivered	Wagon Delivery Notice Message	to customer
Free For Disposition		unloaded, waiting for task

# ISR and TAF Requirements (2)

- There is a high overlap between the data elements in ISR and TAF TSI
- Therefore, together with EUAR, we are preparing “Soft Compliance”, so that the RAILDATA members will not have an impact on their existing data exchanges
- A request to the European Commission for allowing Soft Compliance is pending



We should establish classification criteria:

- 2 non correspondences (0 point)  $2 \times 0 = 0$  points
  - 10 full correspondences (1 point)  $10 \times 1 = 10$  points
  - 2 partial correspondences (0,5 point)  $2 \times 0,5 = 1$  points
- 
- 11 points
- divided by 14 items = 0,78

Is result = **soft**-compliance ?



**THANK YOU**