

Sharing of train tracking and Estimated Time of Arrival (ETA) information

CEF Action nr 2016-EU-TA-0185-S



Electronic exchange of **E**stimated **T**ime of **A**rrival information



Co-financed by the European Union

Connecting Europe Facility

Rotterdam TEN-T days June 2016



A. Making rail freight a more attractive option

2. In order to improve operational efficiency of the logistics chain, the sector representatives commit themselves to implementing the TAF TSI functions according to the Masterplan and working toward a common ICT architecture wherever possible. IMs will integrate **international traffic management information (e.g. via TIS)** with national systems. Under the protection of confidentiality clauses, **IMs and RUs agree to make information on estimated time of arrival available (for handover points and final destination) to their contract partners, including terminals and intermodal operators** for optimizing the use of resources such as rolling stock and terminal capacity, and to provide freight forwarders and shippers with up-to-date information about the status of their freight and an estimated time of arrival.

Vienna RFD Dec.2016: How the CEF ELETA project links to the RFC programme

CORRIDOR ScanMed RFC ATLANTIC RFCS 6 RFC7 Rail Freight Corridor 8 CSCORRIDOR

Opening RFC Strategy Sessions

Guillaume Confais-Morieux,
Rail Freight Day 9 December 2016

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Opening RFC Strategy Sessions

Shared priorities / Operations



5. Improving harmonization of processes at the borders, with support from executive boards
6. Following Estimated Time Arrival implementation for all stakeholders, including estimated time of handover, implementation of telematics applications for freight service (TAF-TSI) & information of Train Information System (TIS) included in national systems.



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4-5 years

Sharing of train tracking and ETA information
ELETA

2 years

Organisational set-up



ETA Task Force (Coordination)

CER (Maier), ERFA (Tonndorf), KNV (Toet), RFCs (de Mol, Sellnick, Geubelle), RNE (Reisinger), UIRR (Schultze), DG Move, Ministries

«ELETA» Project (CEF application)

Project coordinator: Ad Toet

Project partners: Cemat, Hupac, IFB, Kombiverkehr, RCA, UIRR,

Involved RUs: Lineas, BLS Cargo, DB Cargo, RCA, Mercitalia, SBB Cargo int., SNCF FRET

Involved terminals: ca. 20

Technical partner: RNE

Advisory Board

to assist the project partners
RUs, terminals, IMs

RNE Project (CEF application)

Project coordinator: RNE Harald Reisinger

Project partners: IMs, Members of the TIS Advisory Board

System provider for TIS

- Including Terminals to TIS
- Measuring the quality of ETA
- Using TAF TSI Standards like
 - Reference Files
 - Defined Messages
 - Common Interface

Legal Unit

ERA, DG Move (Buy, Padoy),
Ministries (Groot, Haller, Ilik, Nagel,
Swartenbroekx)

Short Term: TIS Advisor Board
Long Term: to be defined

RFC1 project «ETA Terminal/Shunting RUs»

Duisport, others

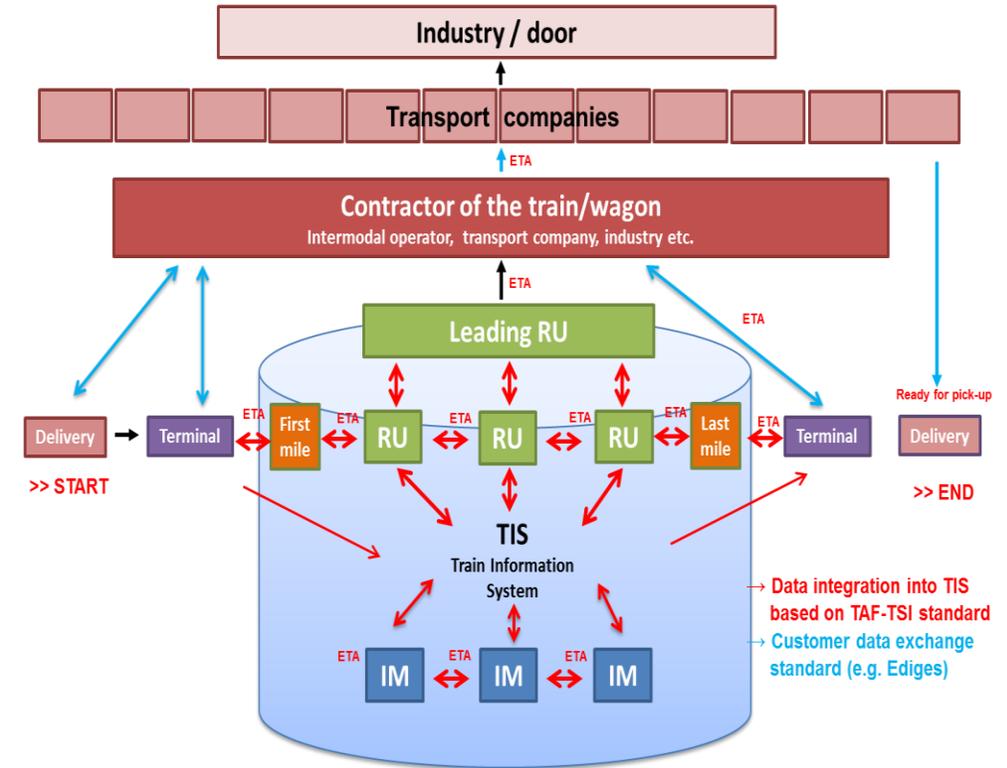
ELETA objective



1. to demonstrate the practical value of streamlining exchange of ETA data.
2. to overcome legal, operational and technical obstacles in the electronic exchange of ETA information.

ELETA approach

- Intermodal operators in leading role; IM's, RU's and RNE actively involved
- Selection of 12 already running intermodal shuttle trains
- No new big new database, but interfaces to already existing TAF-TSI/TIS information



Core tasks



1. Establishing the Electronic data exchange link between all stakeholders in the chosen intermodal logistic chains.
2. Feeding into the link valid data on Estimated Time of Arrival.

ELETA partners



ELETA activities



N°	Title	Start date	End Date
1	Survey and system analysis of current situation in tracking data exchange in Road-Rail Combined Transport	01-09-2017	28-02-2018
2	Survey of legal conditions in tracking data exchange	01-10-2017	28-02-2018
3	Inventory of stakeholders' requirements for an ETA eco-system	01-09-2017	31-03-2018
4	Assessment of ICT systems and standards to be linked	01-09-2017	31-03-2018
5	Elaboration of functional requirements and architecture for the ETA ecosystem	01-02-2018	30-09-2018
6	Conceptual design of smart ETA algorithms	01-02-2018	30-09-2018
7	Programming and testing of software applications and user interfaces	01-09-2018	30-06-2019
8	Impact assessment of the ETA ecosystem	01-04-2019	31-07-2019
9	Project Management and Communication	01-09-2017	31-08-2019

First-Last Mile: Messages and Facilities

Terminal Trip



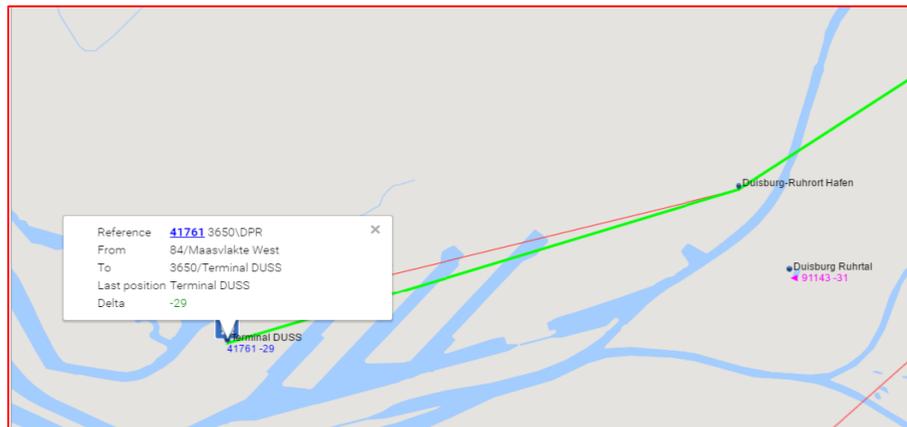
TIS - Messages along the whole Train Journey

First Mile Traction Type (Shunting Trip or Train Loco)		Train Journey		Last Mile Traction Type (Train/Shunting Trip or Train Momentum Energy)	
Terminal	Terminal Trip	Network IM		Terminal Trip	Terminal
					
Loading completed	Forecast Running advice	Path Details – Forecast - Running advice – Delay Codes – Path Section Modification - Interruption		Forecast Running advice	Ready for Unloading

ELETA preliminary findings



- *Permissions/authorisation for sharing data. (RNE framework agreement)*
- *Intermodal operators and some terminals not linked to TIS.*
- *Change of train numbers at borders (lack of unique train numbering).*
- *Terminals and their (common) user interfaces (the sector has invested in costly work arounds)*
- *Showing the whole train journey (not only the IM network/network entry point)*



First-Last Mile: User Interface – Terminal Trip

Train Search Options

Timeframe: 09/03/2017 18:20:00 +01:00

+/- 3 hours

Message Creation Steps

- 1 Direction: First Mile Last Mile
- 2 IM Point: 0080\12617\EDRH\Duisburg-
- 3 Train: 41488 from Gądk
- 4 Terminal Point: 3650\80004\DUSS\Terminal I
- 5 Estimated Time of Arrival (HH:mm): 12:45

Delta (e.g. +16): 25

Thank you for your attention and support



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