

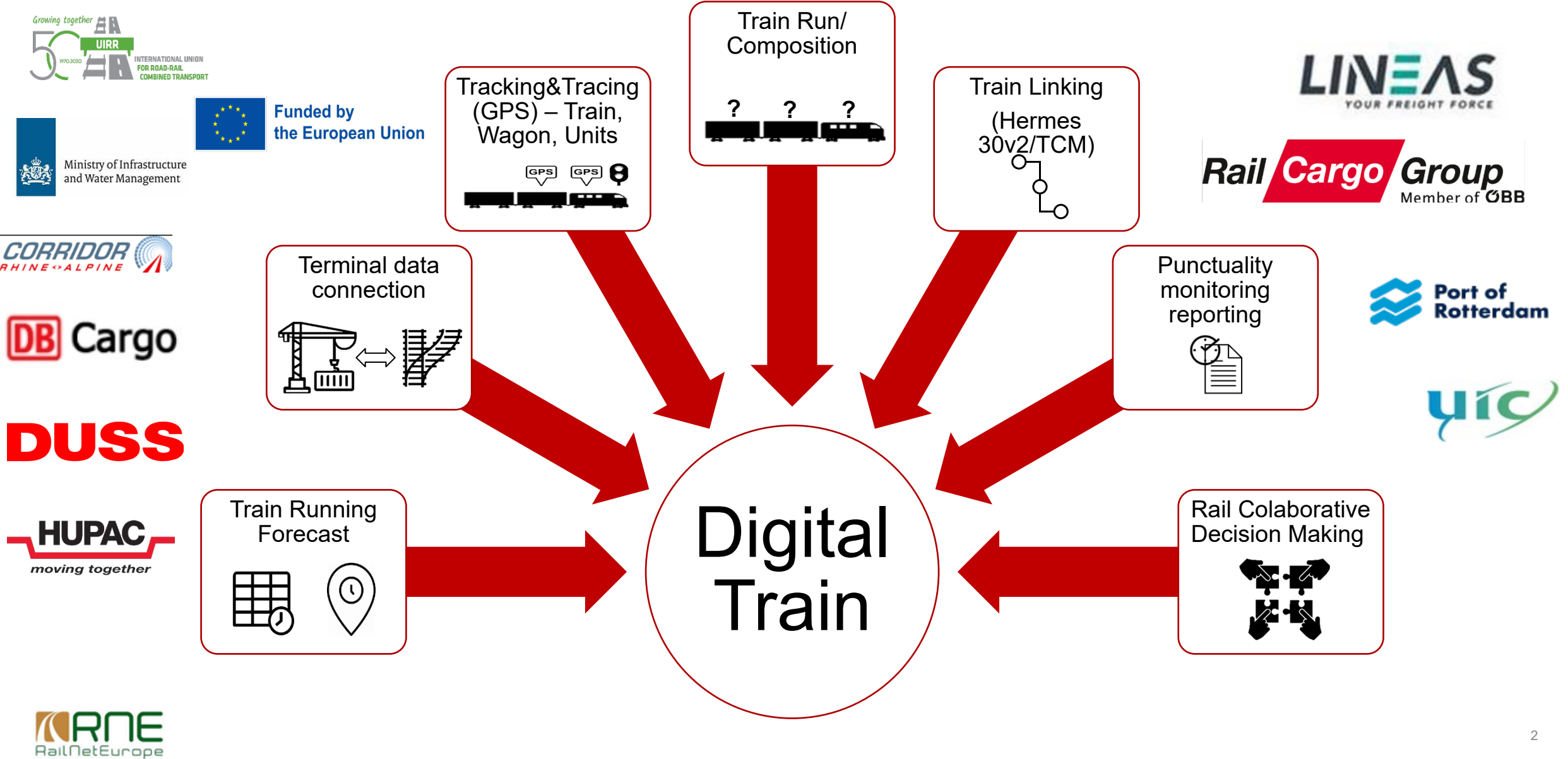


RNE TIS

Train Information System

Digital Train Information
Facilitation of data interconnectivity
through TIS

What is Digital Train Information



TIS – General Overview

- International freight, passenger and national freight trains can be followed in **Train Information System**
- Nearly 30.000 trains can be identified daily in the **Train Information System**
- Around 4.000 users from 350 companies connect every month with **Train Information System**
- Approximately 5 million TAF/TAP TSI messages exchanged daily in **Train Information System**



Terminals connection to the RNE TIS

Why the Terminals data connection is important



Vital part of the supply chain

First/Last mile for rail services

Interface of transport modes along logistical chains

Facilitates the cooperation with Combined Transport Operators (CTOs)

Helps to improve efficiency of resources

Contributes to a greener Europe

Reduces congestions

TAF/TAP TSI – Data Sharing new Approach



Information Sharing

Hide RU Information * No

Hide Train Composition * No

Location	Date	Time	Delta	OTD	Information Message
Busto Gallarate	03.11.2021	15:04	+7 min	40244	Ferrovie dello Stato Italiane SpA
GALLARATE	03.11.2021	15:12	+9 min	40244	Ferrovie dello Stato Italiane SpA
SONDRIO LOMBARDO	03.11.2021	15:24	+10 min	40244	Ferrovie dello Stato Italiane SpA
VERGATE	03.11.2021	15:27	+10 min	40244	Ferrovie dello Stato Italiane SpA
SESTO CALENDE	03.11.2021	15:34	+12 min	40244	Ferrovie dello Stato Italiane SpA
TAINO ANGERA	03.11.2021	15:38	+11 min	40244	Ferrovie dello Stato Italiane SpA
SPRA	03.11.2021	15:50	+19 min	40244	Ferrovie dello Stato Italiane SpA
LEGGIUNO MORIVALLE	03.11.2021	15:58	+21 min	40244	Ferrovie dello Stato Italiane SpA
LAUVENO MOMBELLO	03.11.2021	16:10	+29 min	40244	Ferrovie dello Stato Italiane SpA
CALDE'	03.11.2021	16:16	+31 min	40244	Ferrovie dello Stato Italiane SpA
PORTO VALFRANGALLA	03.11.2021	16:17	+30 min	40244	Ferrovie dello Stato Italiane SpA

Datasharing new approach:

- Information can be exchange with all stakeholders involved in the train run as long they can be identified

The TIS User shall have access to the data relating to its own trains and to the trains of other applicants if they cooperate in the same train run (data sharing by default).

The Data shared by default includes the following data/messages:

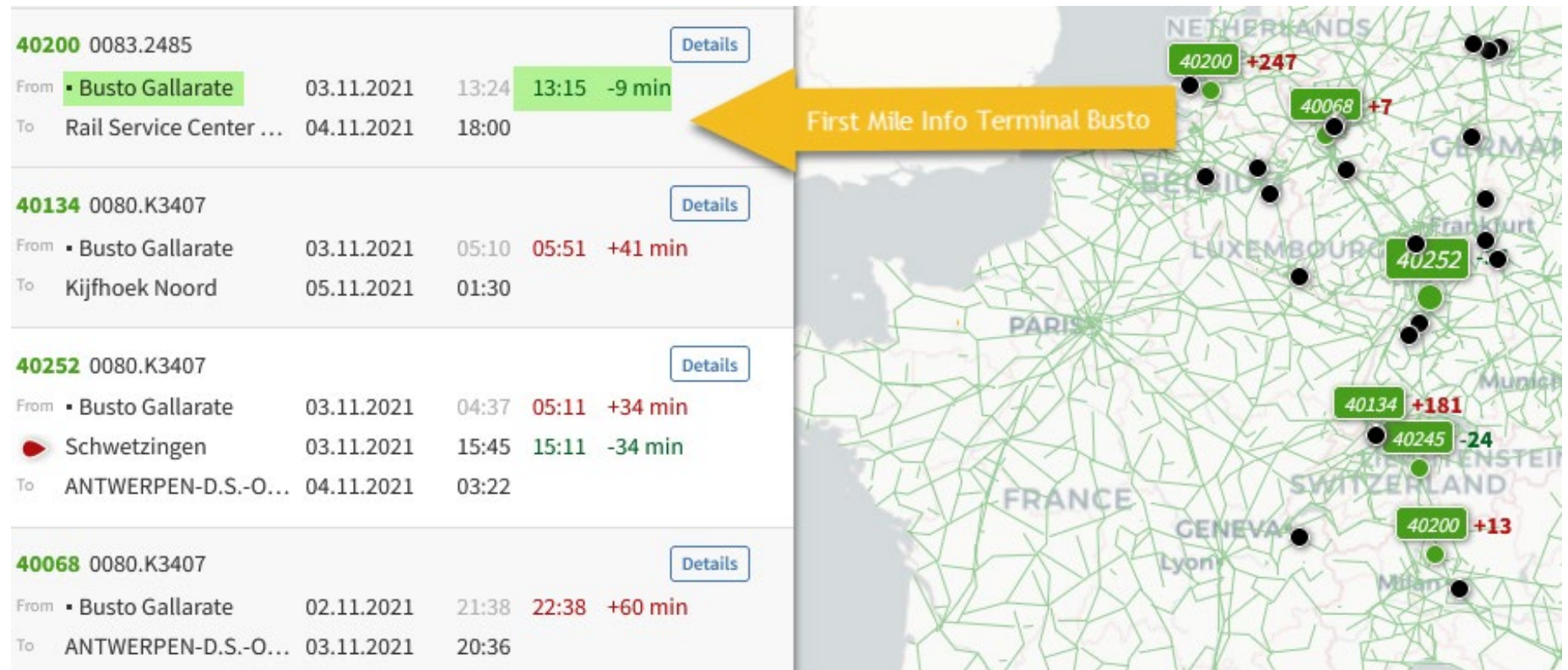
- TrainRunningMessage (real time info)
- PathDetails used in operation
- TrainDealyReasons
- ...

The data sharing of other date/messages can be managed by the TIS User via the dashboard of TIS.

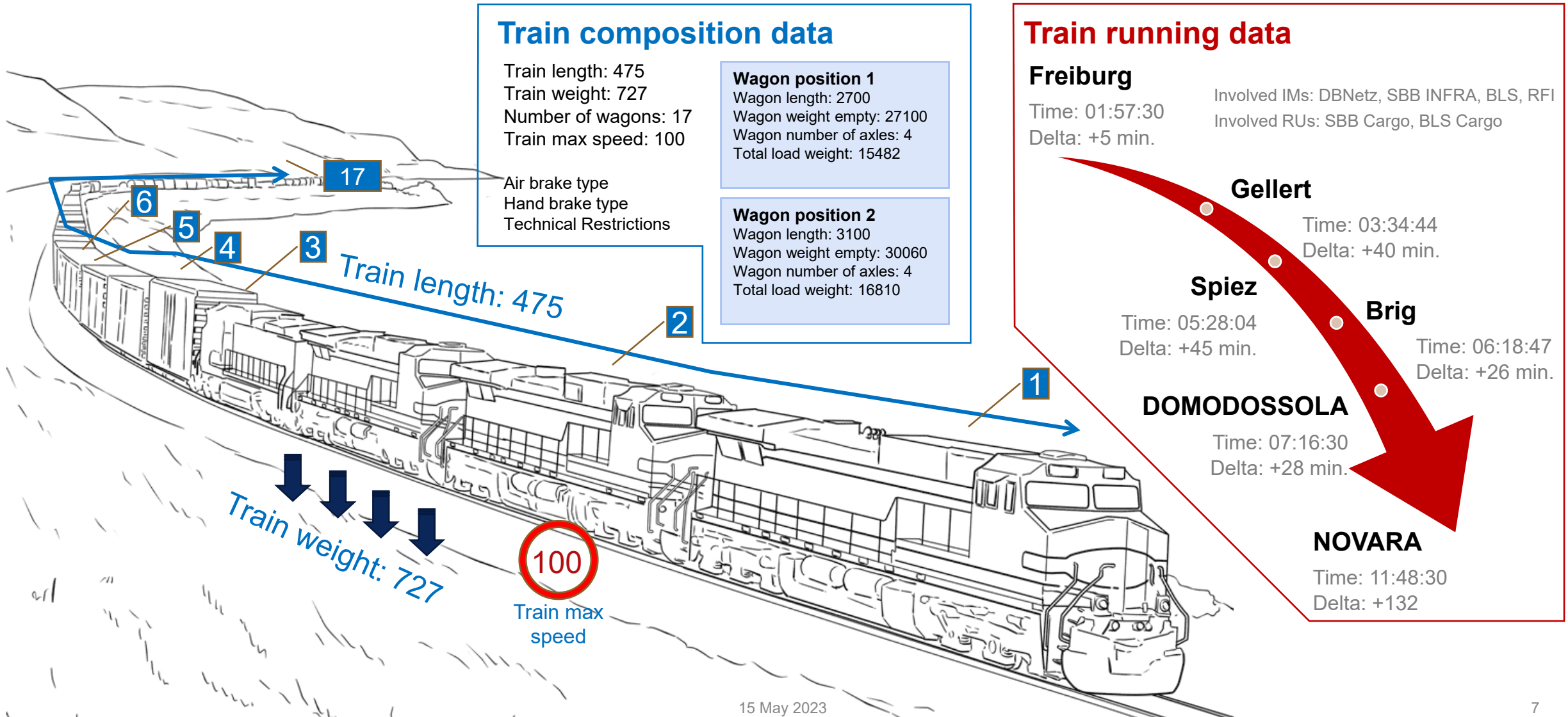
Integration of the Terminals – Next Steps

Next Steps

- Include more terminals into TIS
- Share the first and last mile information with cooperating companies



Train Run / Composition



TIS Services



TIS Web

Real time train monitoring
Timetables, train delays, path cancelations
Free of charge access to all stakeholders
User management
Train view based on TAF/TAP TSI principles
Incident Management



TIS Mobile

Optimized version of TIS Web for mobile devices
Train Driver App for GPS data
One final product for the TIS user community



Data Exchange

Data exchange based on the TAF/TAP TSI framework
Secure data exchange through the Common Interface
Various charging schemas based on the volume of the trains



Reporting

Scheduled train performance reports
Tailormade to match the business needs
Possibility for reports per case (ad hoc)

Thank you