Rail Traffic System (RTS)

Port of Antwerp

UIRR Digital Forum
26/09/2019

Lever for a sustainable future

Belgium's biggest economic driver

235
Million tonnes of maritime freight

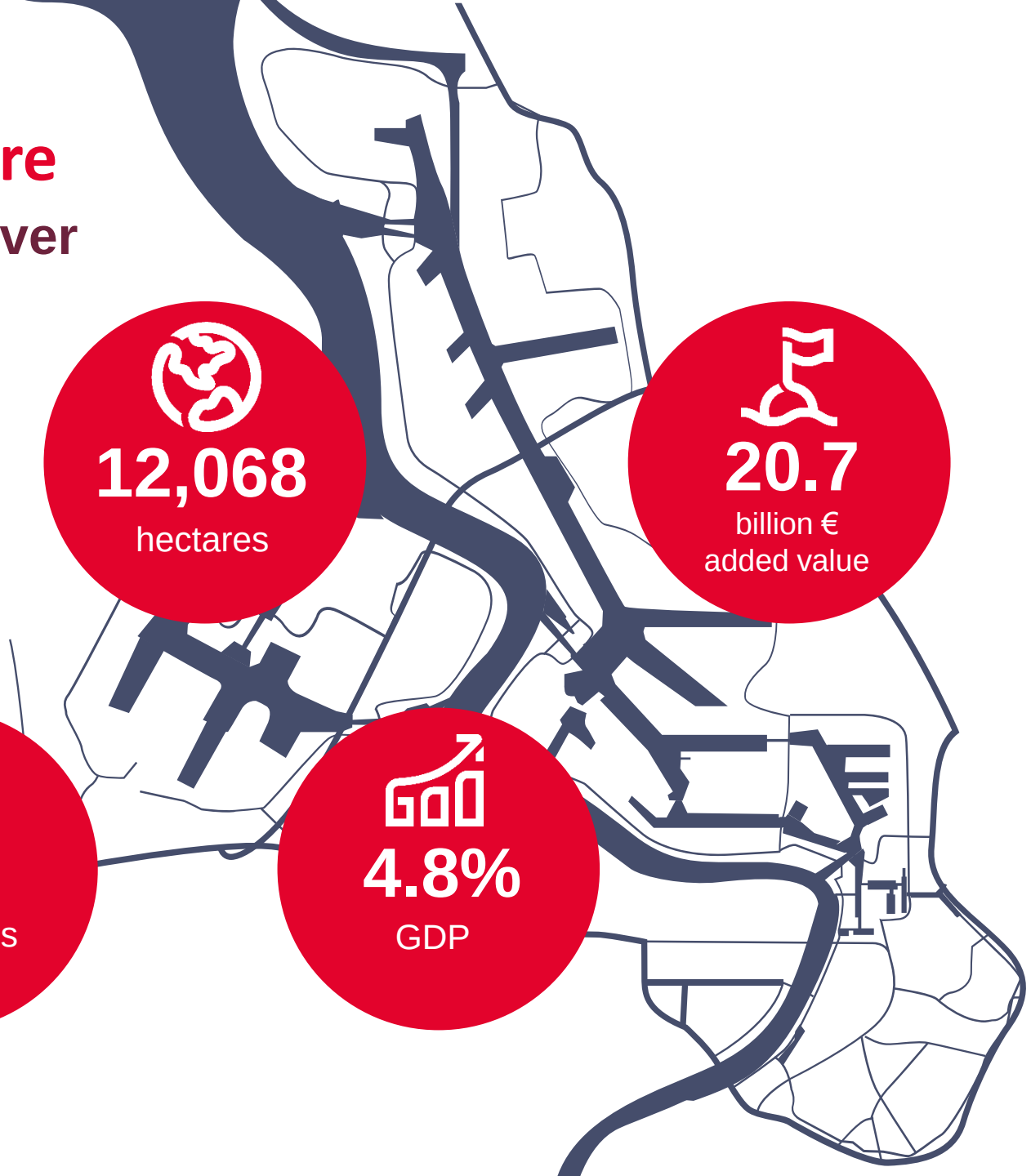
12,068
hectares

20.7
billion €
added value

143,183
jobs

900
companies

4.8%
GDP



Port of Antwerp

Lever for a sustainable future

Active key role as community builder

Port of Antwerp

Transition: digital transition

Key role for Port of Antwerp as community builder

PORTXL

NxtPort

CHAINPORT

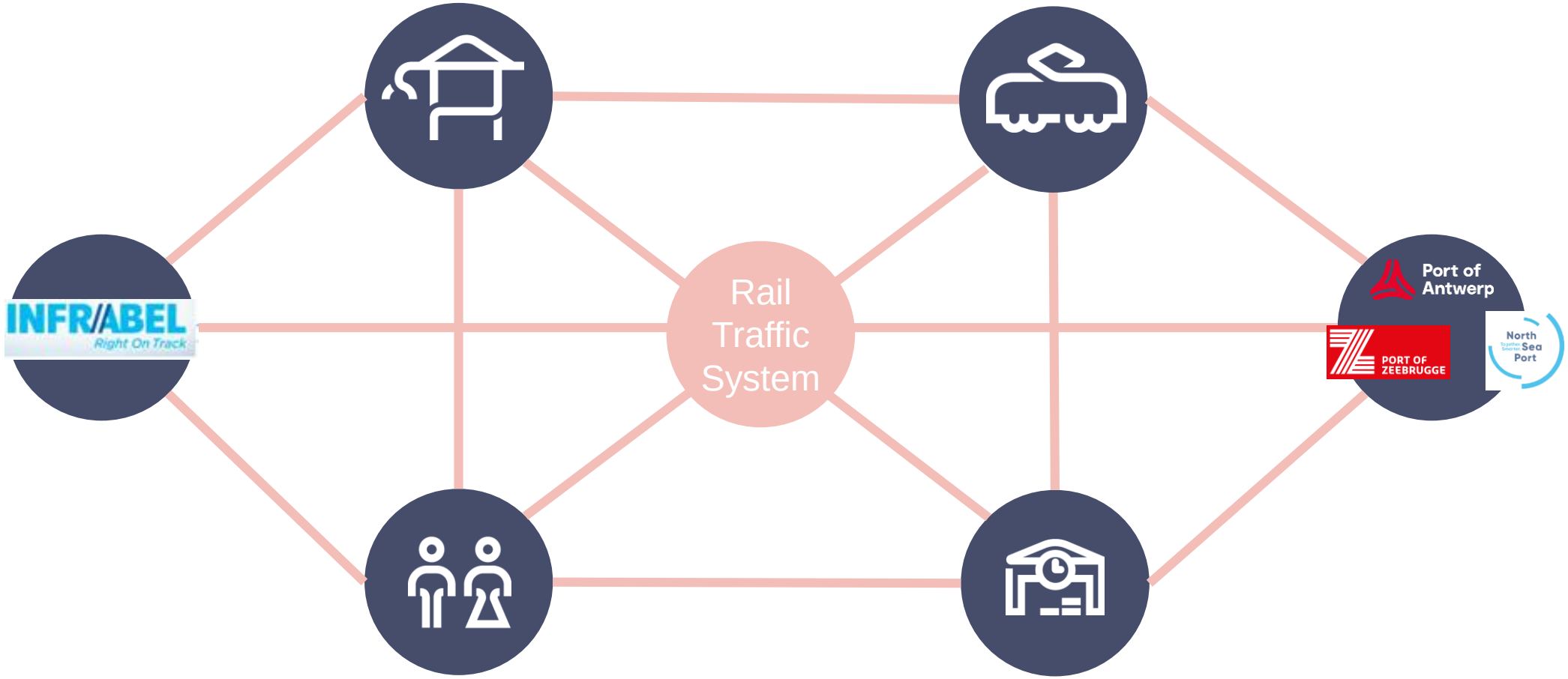
THE BEACON

Innovation for industry, logistics and smart cities

Port of Antwerp

Purpose

Communication, transparency, data sharing



Port of Antwerp

Rail Traffic System

Digitization as a means to automate rail processes

Process optimization

Single window rail data

- Real time positions of trains and wagons
- ETA of trains and wagons
- Train composition
- Planned infrastructure works
- Infrastructure data
- Cargo and dangerous goods
- Damage
- Terminal capacity
- Bridge and lock planning

B2B

- Requesting and managing terminalslots
- Digital support of B2B processes

B2G

- Terminalslot as basis for requesting railpaths in Belgium
- Bundle planning and management in the ports, coordination with terminalslots and railpaths
- Dangerous goods
- Management of capacity requests / railpath management in the port
- Real time traffic management, coordinated with terminalslots and railpaths

Port of Antwerp

Current functionalities

Planning and real time communication on terminalslots

- All request through one single window
- Input and logging of changes (planning and real time) and cancellations

Terminalslots

Exporteren | Vernieuwen | Filter

Start: 03-02-2019 | Einde: 14-02-2019 | Status: Aangevraagd, Laattijdige aanvraag, Gewijzigd, Laattijdige wijziging, Goedgekeurd, In uitvoering × | Reset filters

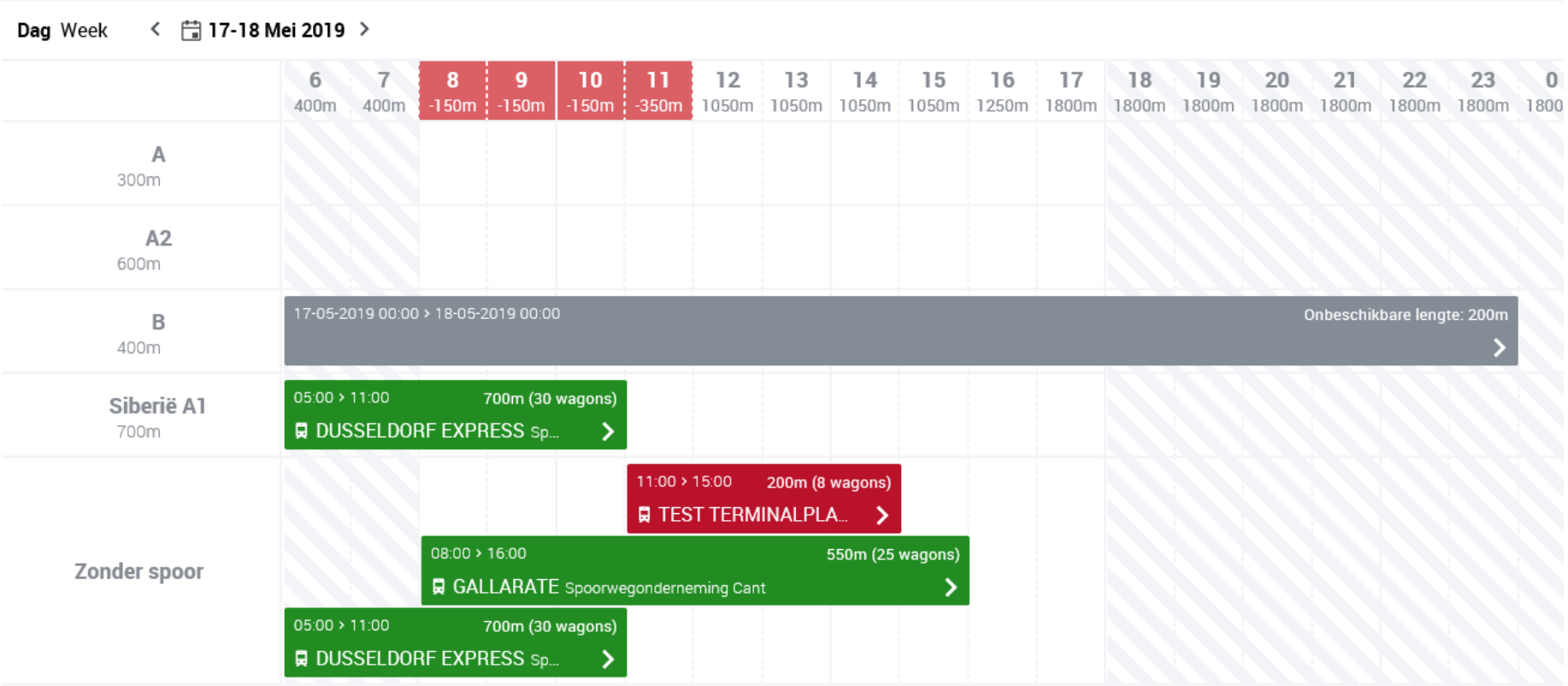
Terminalslot		Spoorwegonderneming	Terminal	Type	Spoor	Aankomst tijd	Vertrek tijd	ETA/ATA Infrabel	ETD/ATD Infrabel	Status	
RTS_001465		Spoorwegonderneming Cant	Terminal operator Cant	Aanleveren	1	do 14-02-19 12:00 E				Aangevraagd	
RTS_001118		Lineas	PSA Noordzeeterminal (K913)	Aanleveren en ophalen		wo 13-02-19 10:00 E	wo 13-02-19 21:00 E			Aangevraagd	
RTS_001104		Lineas	PSA Noordzeeterminal (K913)	Aanleveren en ophalen		ma 11-02-19 10:00 E	ma 11-02-19 21:00 E			Aangevraagd	
RTS_001469		Spoorwegonderneming Cant	Terminal operator Cant	Aanleveren	1	vr 08-02-19 12:00 E				Aangevraagd	
RTS_001481		Spoorwegonderneming Cant	Terminal operator Cant	Aanleveren		do 07-02-19 14:00 R				Goedgekeurd	
RTS_001464		Spoorwegonderneming Cant	Terminal operator Cant	Aanleveren	1	do 07-02-19 12:00 R				Aangevraagd	
RTS_001117		Lineas	PSA Noordzeeterminal (K913)	Aanleveren en ophalen		wo 06-02-19 10:00 E	wo 06-02-19 21:00 E			Aangevraagd	
RTS_001463		Spoorwegonderneming Cant	Terminal operator Cant	Aanleveren		wo 06-02-19 10:00 E				Aangevraagd	
RTS_001103		Lineas	PSA Noordzeeterminal (K913)	Aanleveren en ophalen		ma 04-02-19 10:00 E	ma 04-02-19 21:00 E			Aangevraagd	
RTS_001474		Spoorwegonderneming Cant	Terminal operator Cant	Aanleveren		ma 04-02-19 12:00 E				Aangevraagd	
RTS_001462		Spoorwegonderneming Cant	Terminal operator Cant	Aanleveren		ma 04-02-19 10:00 R				Goedgekeurd	

Port of Antwerp

Current functionalities

Terminalplanning

- Visualizing terminalcapacity
- Transparency between RU’s: previous and next RU

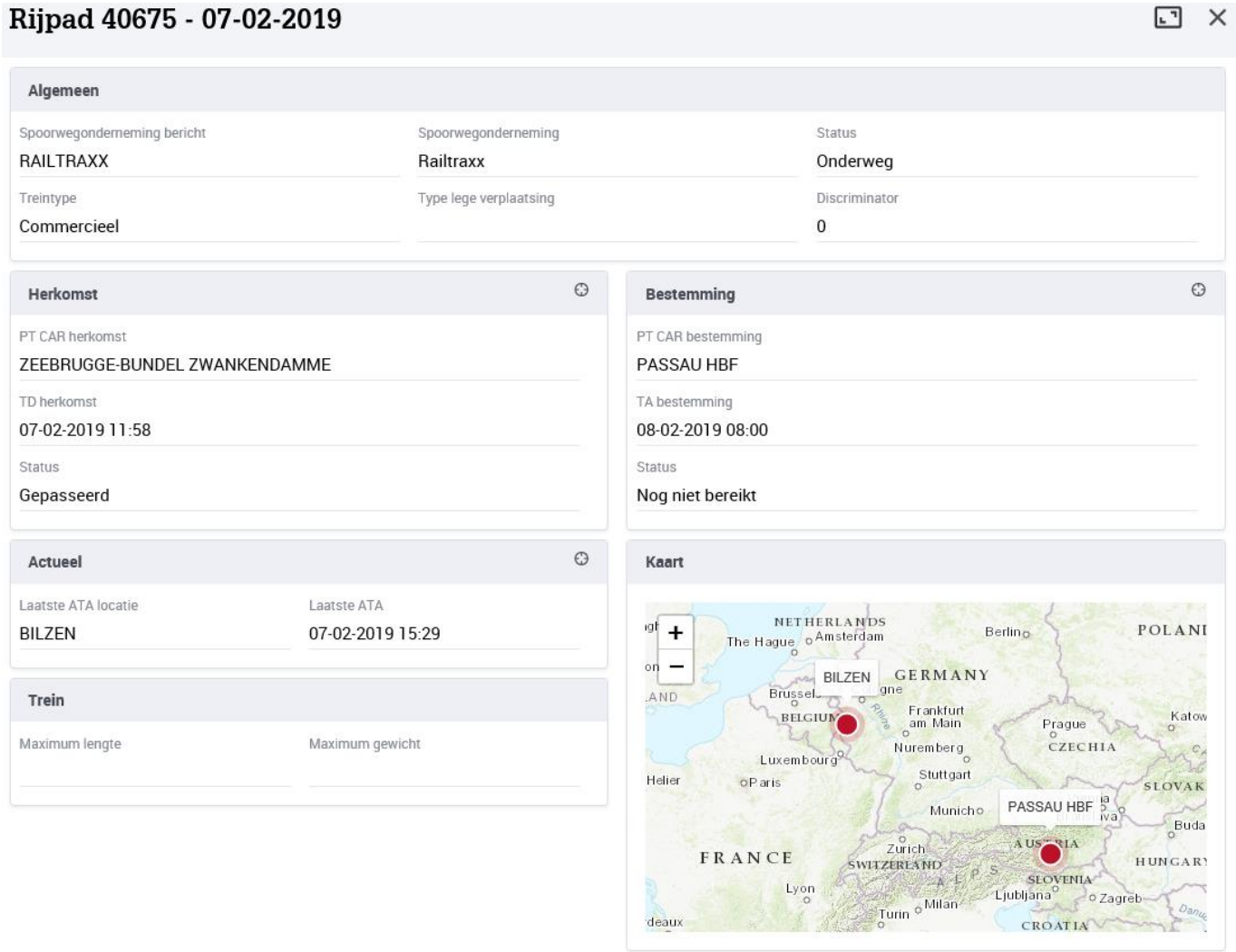


Port of Antwerp

Current functionalities

Bundling different datasources

Infrabel: railpaths and trainpositions



Port of Antwerp

Current functionalities

Bundling different datasources

RU’s: wagon events

Wagonstatus

Exporteren | Vernieuwen | Filter

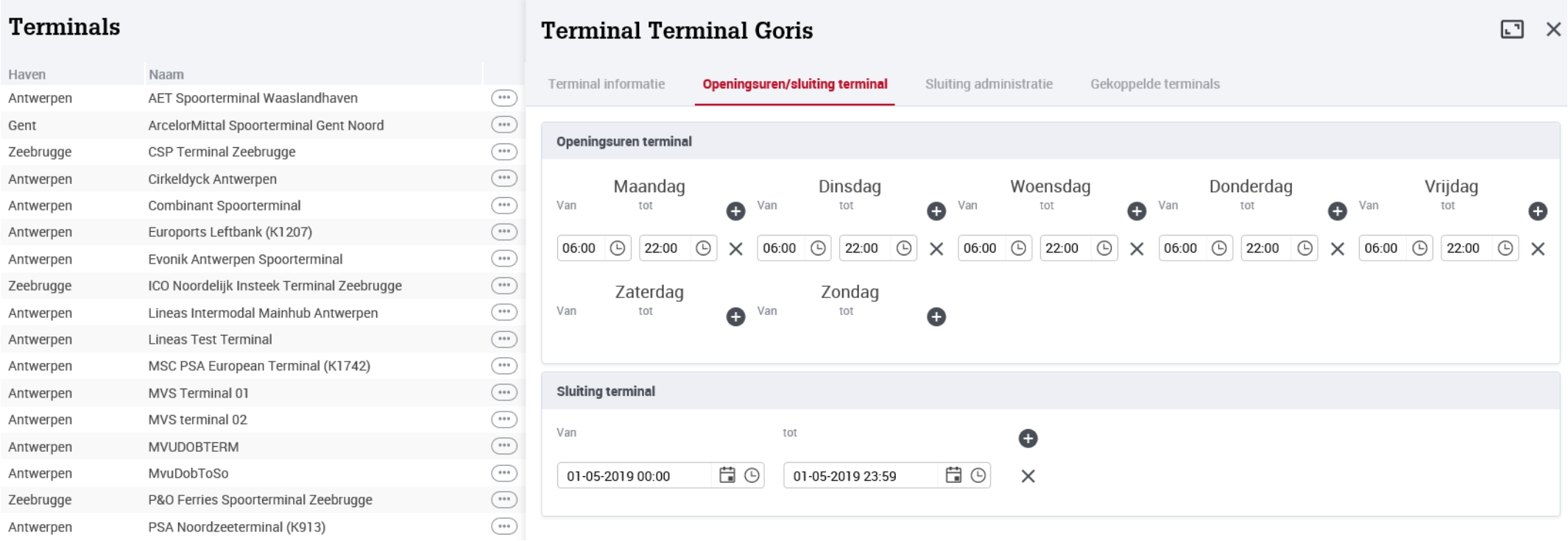
Wagonnummer	Status	Herkomst	TD	Bestemming	Laatste event	Event locatie	Event tijdstip	Treinnummer	Datum
318045526320	Geladen		07-02-2019 14:00	Gent-Zeehaven	Arrival		07-02-2019 15:19	006128	
317445521774	Geladen		07-02-2019 14:00	Gent-Zeehaven	Arrival		07-02-2019 15:19	006128	
317445521923	Geladen		07-02-2019 14:00	Gent-Zeehaven	Arrival		07-02-2019 15:19	006128	
378078092731	Geladen			Antwerpen Oudendijk Bayer	Pulled		07-02-2019 15:18		
378078099801	Geladen			Antwerpen Oudendijk Bayer	Pulled		07-02-2019 15:18		
338778134001	Leeg	Antwerpen Waasl-Zd Lanx....	07-02-2019 09:25	Antwerpen Kanaaldok Solvay	Departure	Antwerpen-WH-Zuid B.Zuid	07-02-2019 15:15	72309	07-02-2019
338078182411	Leeg	Antwerpen Waasl-Zuid Ineos	07-02-2019 08:58	Antwerpen Buitenschoor BA...	Departure	Antwerpen-WH-Zuid B.Zuid	07-02-2019 15:15	72309	07-02-2019
378078098530	Leeg	Antwerpen Waasl-Zuid Ineos	07-02-2019 08:58	Antwerpen Buitenschoor BA...	Departure	Antwerpen-WH-Zuid B.Zuid	07-02-2019 15:15	72309	07-02-2019
378078092731	Geladen			Antwerpen Oudendijk Bayer	Ready To Pull		07-02-2019 15:14		
378078099801	Geladen			Antwerpen Oudendijk Bayer	Ready To Pull		07-02-2019 15:14		
338846143406	Leeg	La Louvière-Gare Industrielle	07-02-2019 08:10	Gent Rodenhuize	Arrival	Gent-Zeehaven	07-02-2019 15:13	37946	07-02-2019
318839521529	Leeg	La Louvière-Gare Industrielle	07-02-2019 09:25	Gent Rodenhuize	Arrival	Gent-Zeehaven	07-02-2019 15:13	37946	07-02-2019
318839501315	Leeg	La Louvière-Gare Industrielle	07-02-2019 09:25	Gent Rodenhuize	Arrival	Gent-Zeehaven	07-02-2019 15:13	37946	07-02-2019
338846144743	Leeg	La Louvière-Gare Industrielle	07-02-2019 08:10	Gent Rodenhuize	Arrival	Gent-Zeehaven	07-02-2019 15:13	37946	07-02-2019
338846143091	Leeg	La Louvière-Gare Industrielle	07-02-2019 08:10	Gent Rodenhuize	Arrival	Gent-Zeehaven	07-02-2019 15:13	37946	07-02-2019

Port of Antwerp

Current functionalities

Static data

- Static data of terminals
- Database of contactpersons



Port of Antwerp

Current functionalities

Transparency third parties

- Requesting terminalslots and consultation
- Consultation wagon events
- Consultation trainpositions

Port of Antwerp