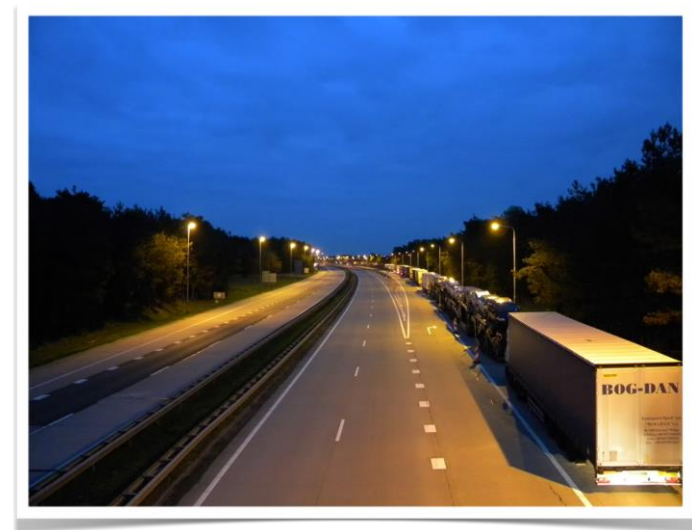




DATEX USER FORUM PRAGUE 2014

BAS VENNEKENS

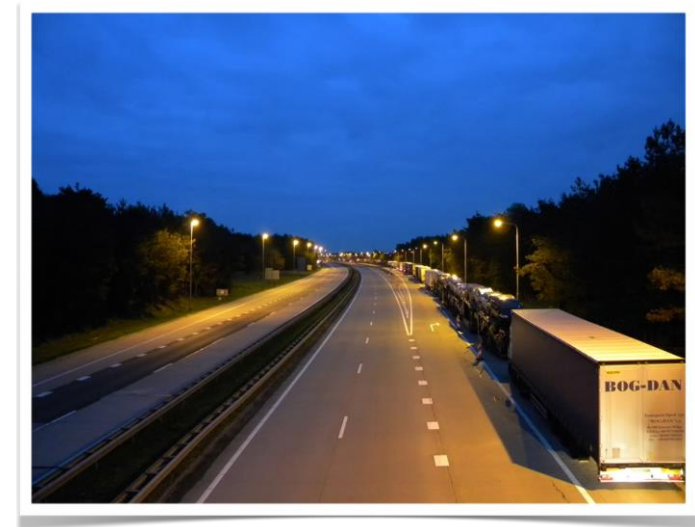
-
- Background of Parckr
 - Parckr concept
 - Parckr app
 - Parckr and Datex2 ITP
 - Parckr working method
 - Datex database
 - Datex 2 ITP experience
 - Opening times
 - Cooperation challenges



Background of Parckr

Truck parking capacity issue on key European corridors

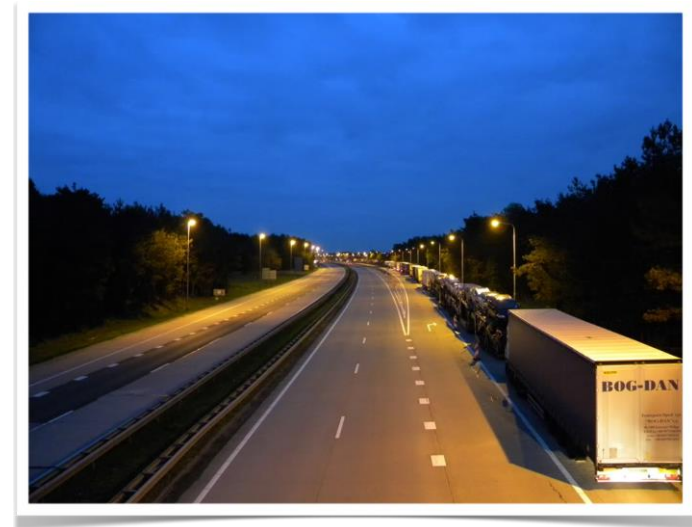
- Demand exceeds capacity,
- in particular at night



Background of Parckr

Trucker's dilemma

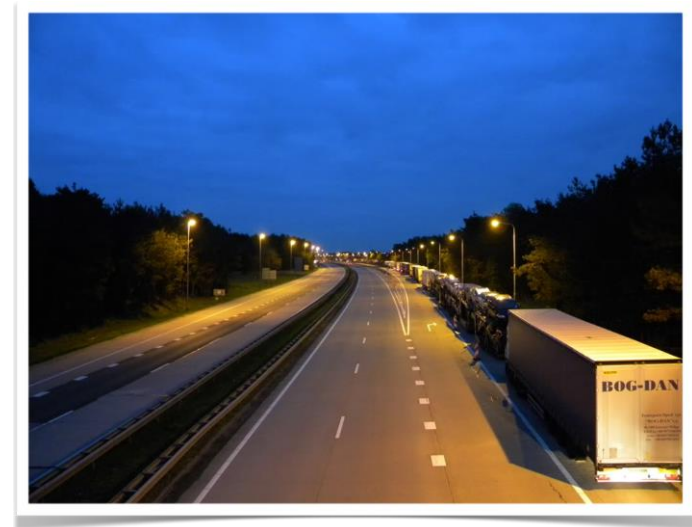
- Incursion of driving time regulations
 - ▶ Risk high fine
- Illegal parking



Background of Parckr

Illegal parking on slipway, hard shoulder, in residential areas

- Security driver, truck, cargo compromised
- Rest time disturbance more likely
- Road safety compromised



Parckr concept

- Floating vehicle data (FVD) as base data
- Computer model estimates/predicts occupancy rates
- Smartphone App
- Presents info to drivers
- Collects FVD and community feedback

Parckr app

Available in 10 languages

For Android and iOS

Shows per truck parking area ahead

- Estimated time of arrival
- Expected occupancy at arrival
- Available facilities

Allow truck drivers to share information with their peers



Parckr and Datex2 ITP

Main data

- Floating vehicle data
 - Mapping company
 - Parckr community
- Truck parking data
 - Road authorities / Single Point of Access
 - Web scraping / digitization

Datex 2 ITP working method

- Studying the document DATEX II data exchange specifications for traffic management and information part 6: Parking publication
(prCEN/TS 16157-6:2013 (E))
- Understanding the used concepts
- Translate to relational data model

Datex 2 ITP experience

Overall

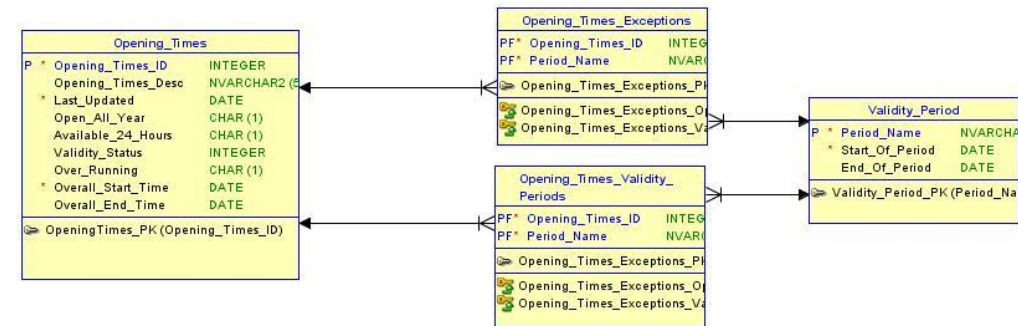
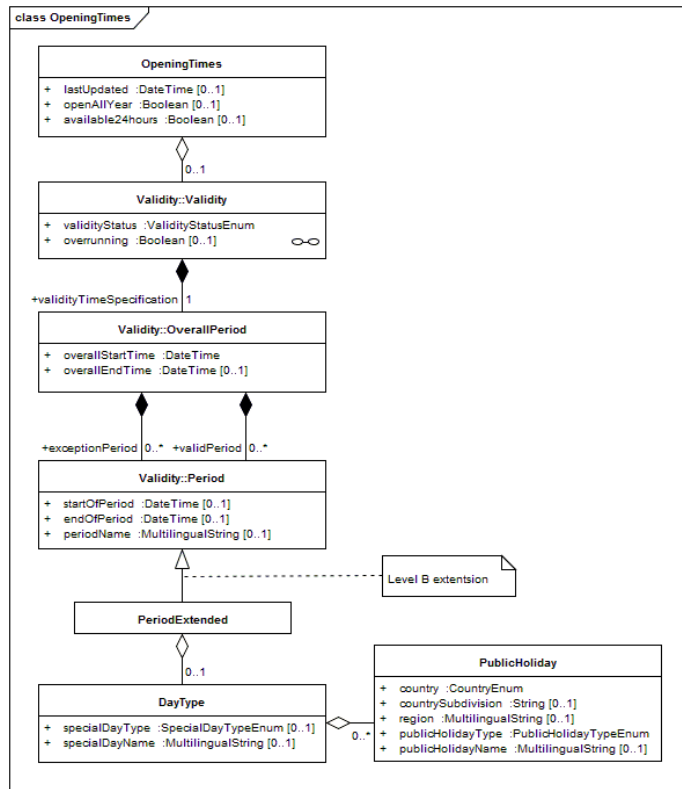
- Complete (all items of parking place)
- ITP not complex, but lot of information

Minor issue

- Not all opening times can be stored in Datex

Datex 2 ITP Opening times

Opening times Datex



Datex 2 ITP Opening times

Opening times as provided by truck stops in the Netherlands

Openingstijden	
Ma t/m Vr	Maandag 07.00 - Vrijdag 24.00
Zaterdag	geopend vanaf 06.00 - 21.00
Zondag	geopend vanaf 10.30 - 21.00 (zomers vanaf 09.30 uur)



Cooperation challenges

We need parking data for all European countries (any information where to find it, is much appreciated!)

- Static: location, characteristics, services, security levels, etc.
- Reference data: historic and dynamic occupancy measurements

A single ITP booking standard is needed for Europe

ParckR

Want to learn more about ParckR?

info@parckr.eu

WWW.PARCKR.EU