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Intermodal Solutions

Siemens Mobility

Travellers demand for a comprehensive travel companion as a prerequisite for attractive MaaS

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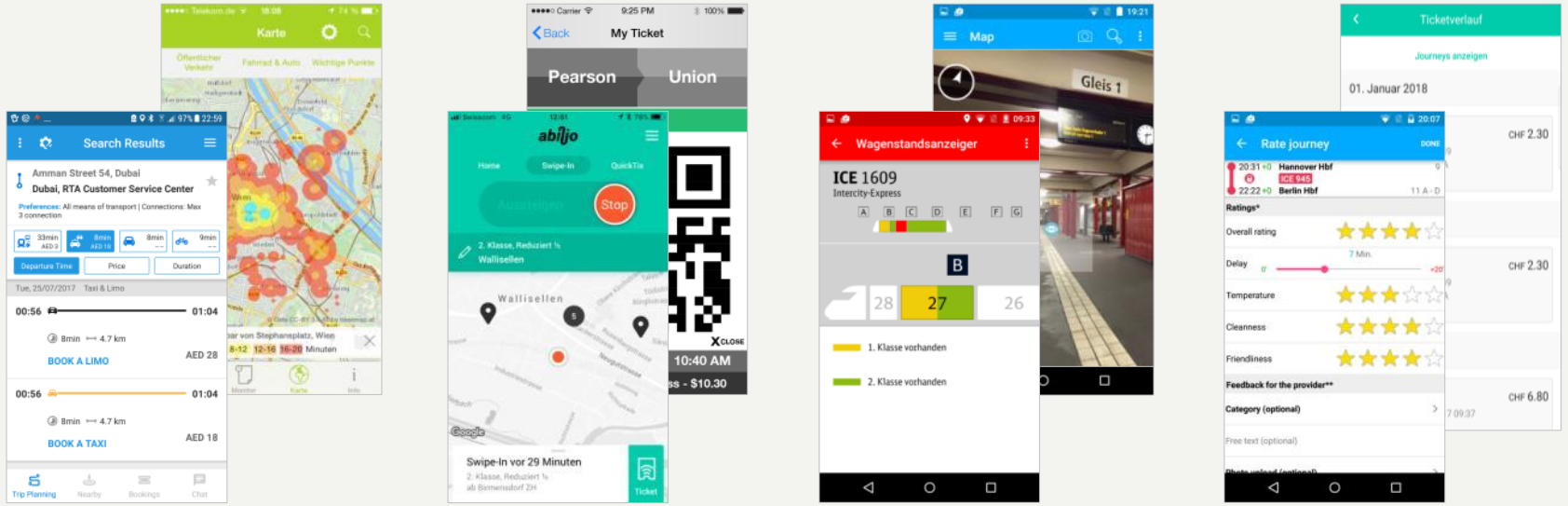
Information & Planning | Booking, Ticketing & Payment | Travel | Management



COMBINED POWER FOR MOBILITY

HaCon

eos.uptrade
DRIVING INNOVATION

Bytemark

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We provide more than 100 apps for trip planning, ticketing and Mobility as a Service worldwide

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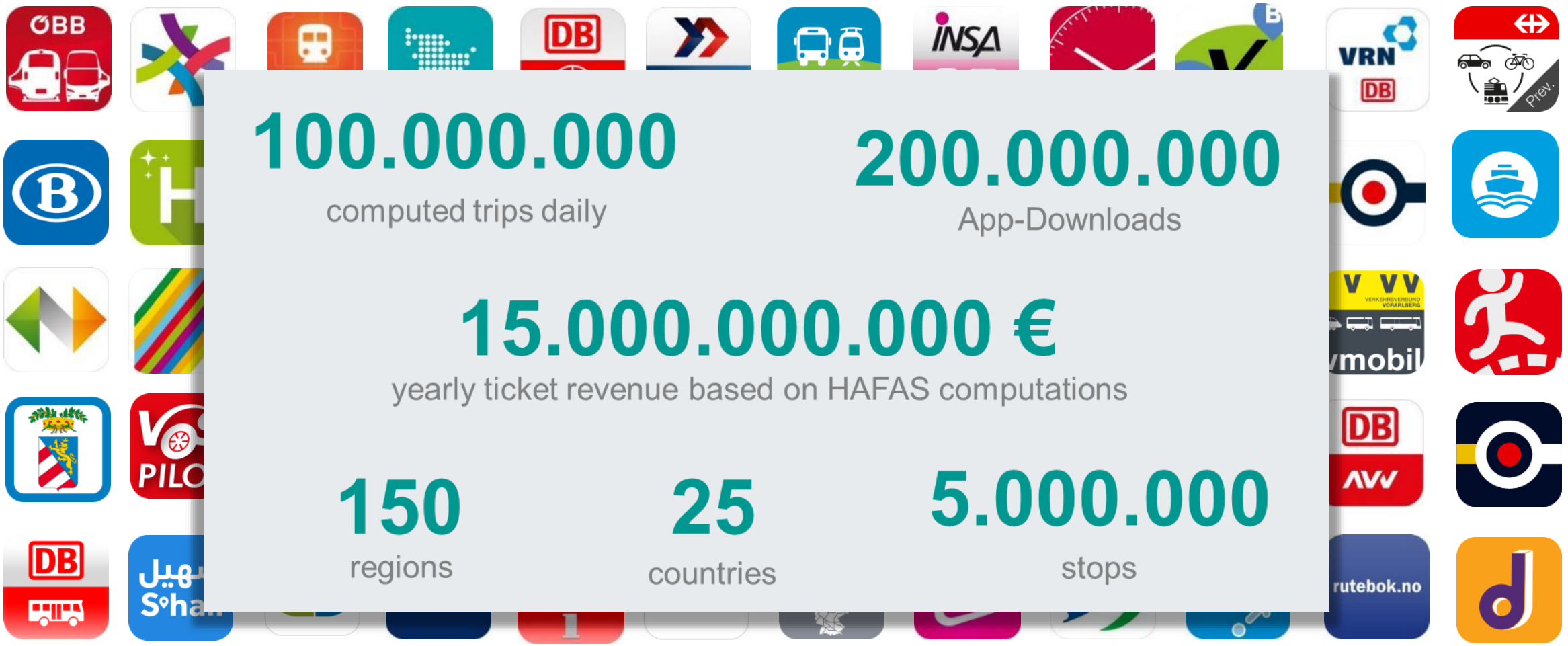

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Our success stories

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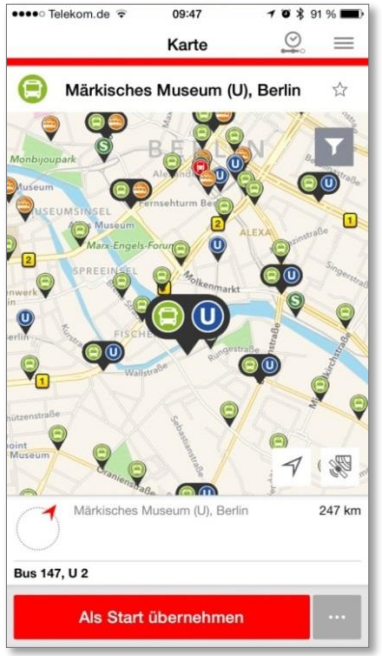
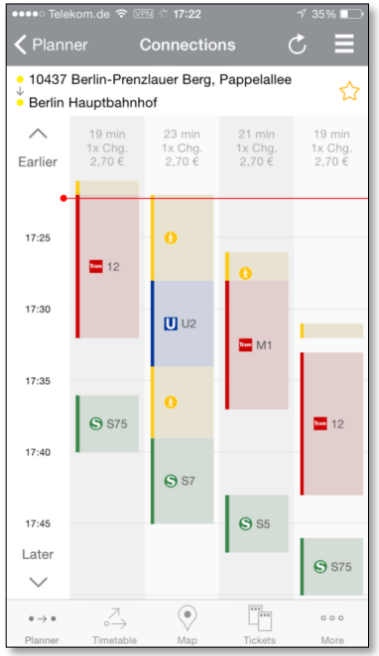
App “DB Navigator”, Germany

- DB: National railway operator
- +30 Mio. downloads / +4 Mio. daily requests
- Trip planning and ticketing for trains and 21 integrated public transport associations



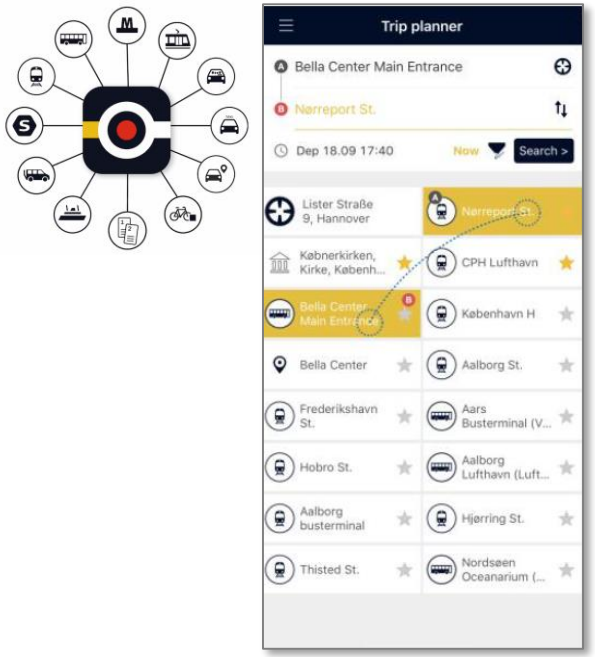
App “BVG” for Berlin

- BVG: operator in Berlin
- +4 Mio. downloads
- Trip planning and ticketing with real-time data and Live-maps



App “MinRejseplan”, Denmark

- Rejseplanen: Association of operators
- +4 Mio. downloads
- Nationwide integration of all intermodal mobility services



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We have already integrated more than 80 providers for all kinds of mobility services

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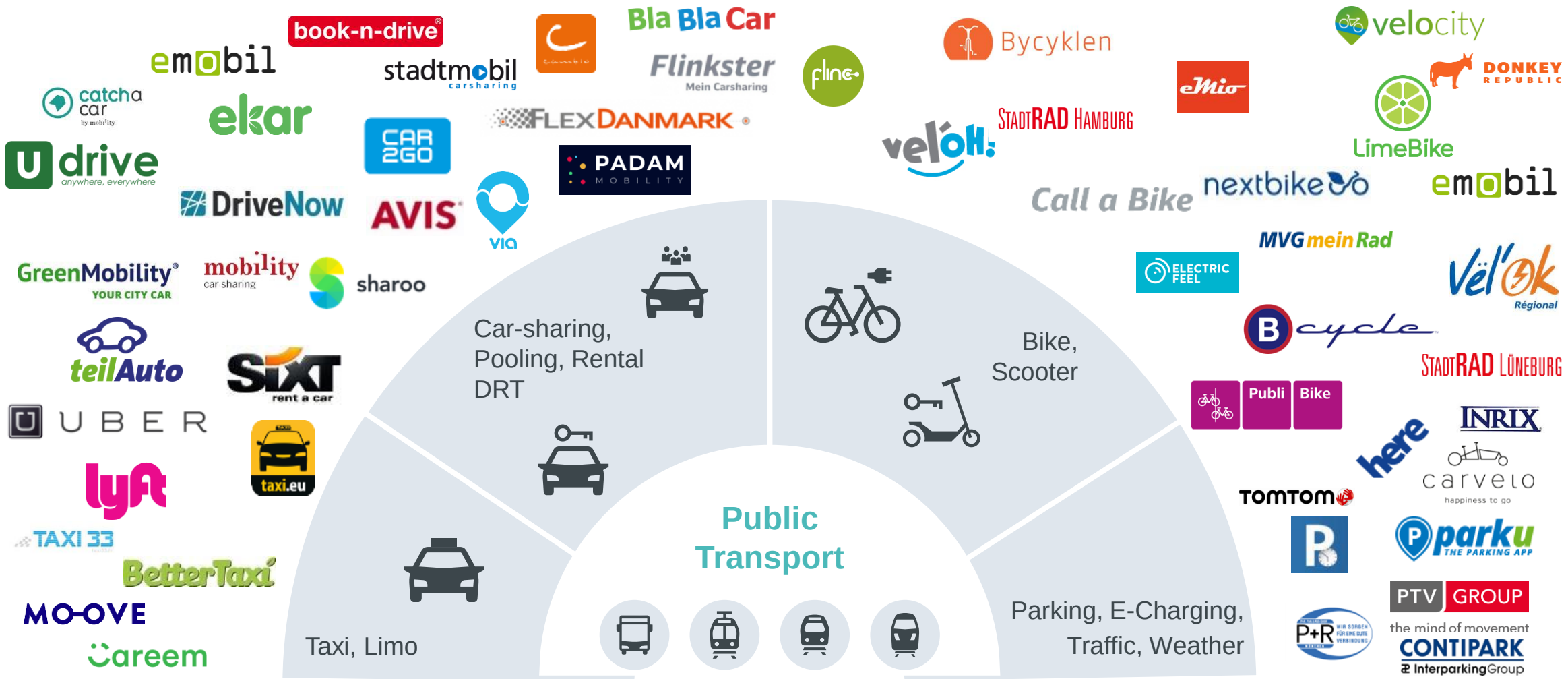

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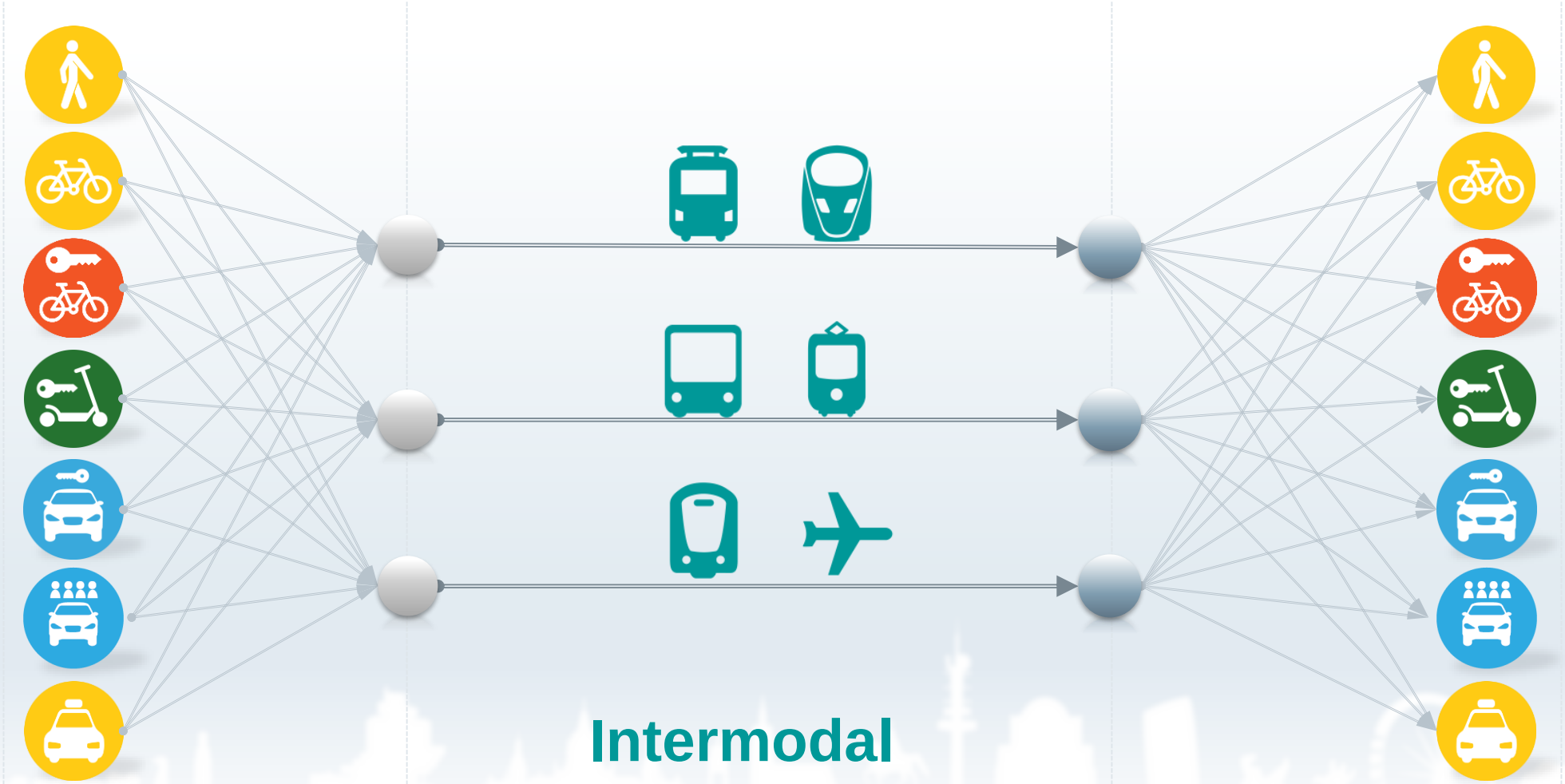
Public transport is the backbone of our intermodal routing strategies



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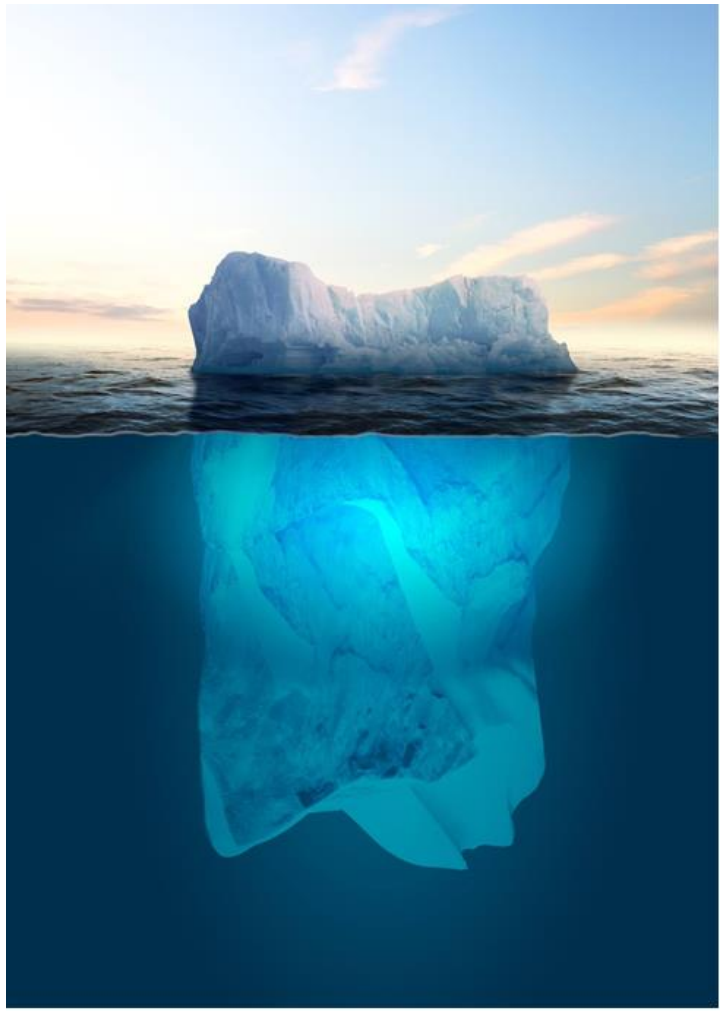
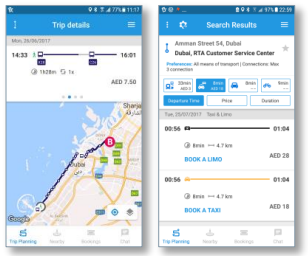
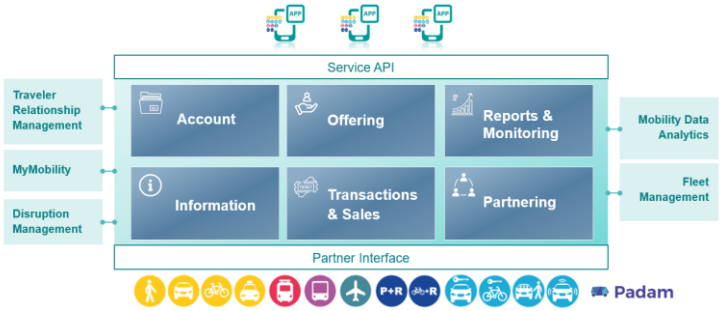
Apps often are the most visible part of what we do, but there is more, much more …





…

- **Intermodal Routing Engine**
- **Ticketing Plattform**
- **Disruption Management**
- **Fleet Management**
- **Targeted Traveler Communication**
- **Data Analytics on Transport Data**
- …



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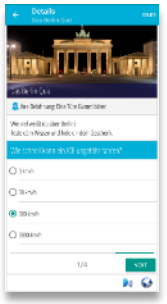
Obtaining data – Apps are a key source for data generation …

Trip Diary

Gamification



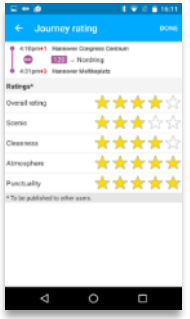
Feedback

App

Registration

Loyalty

Rating



Passenger Data

+ Mobility Data

+ Exogeneous Data

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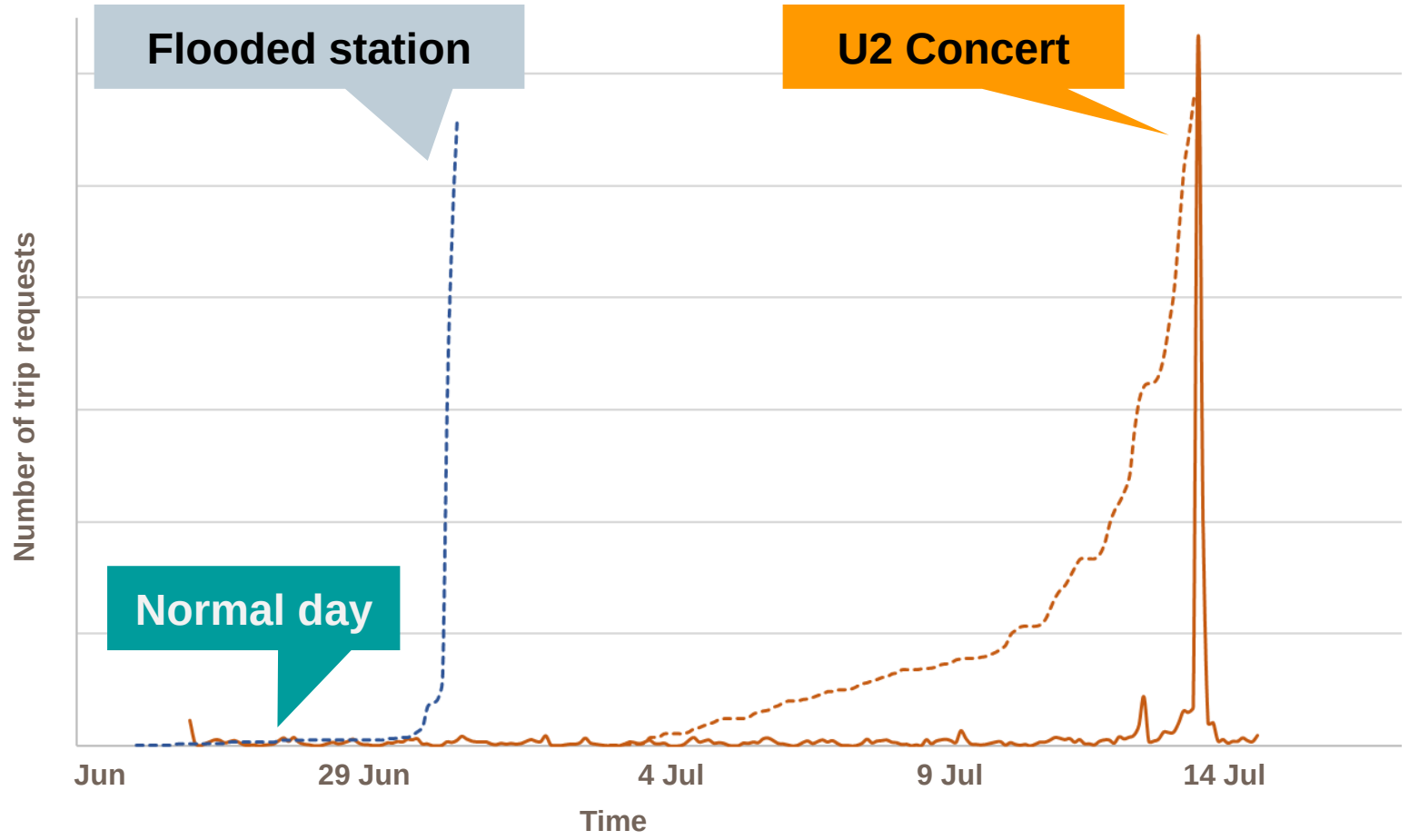
Aggregation of requests sets the base for the identification of incidents and events



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Use-Case: First/Last Mile Coverage

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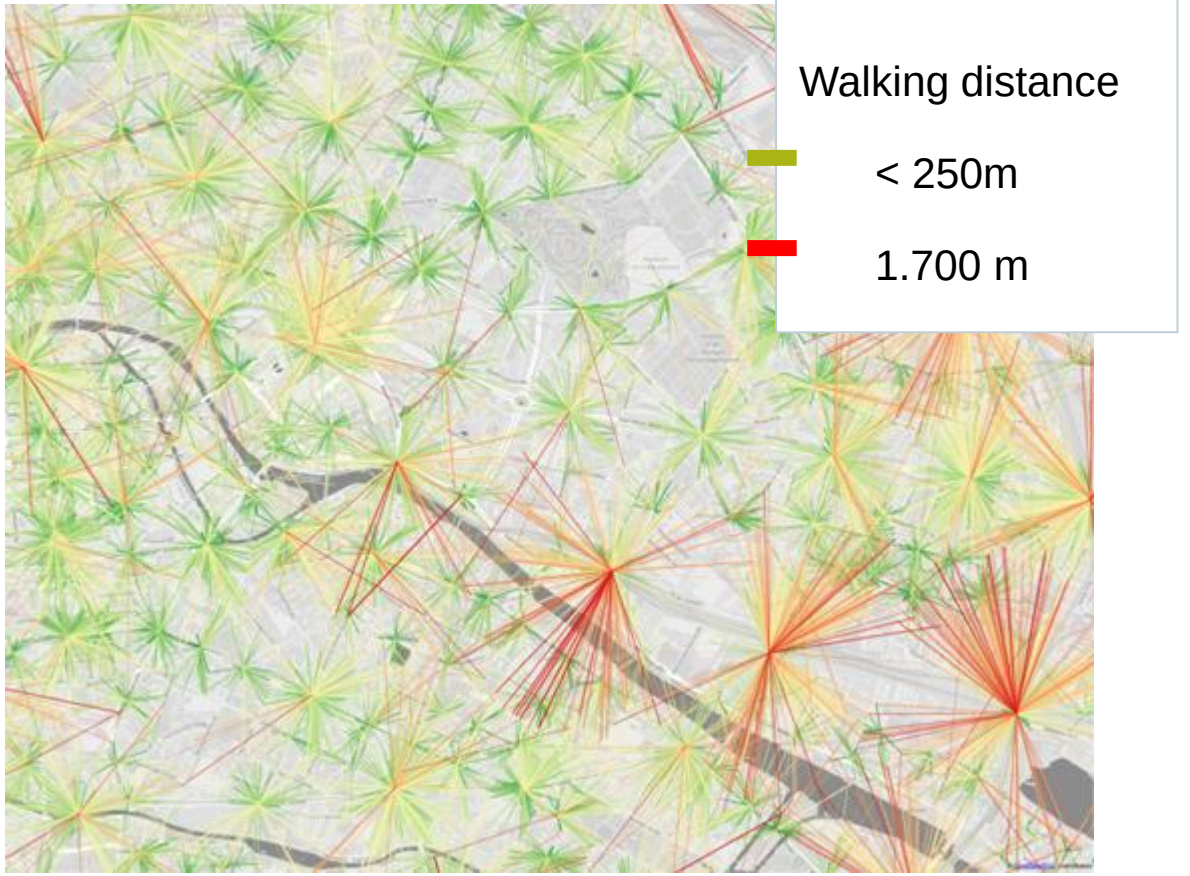
Walking distance to public transport stations by aggregated, anonymized door-to-door routing requests

Where should we set up bikesharing or a flexible Demand Responsive Transport (DRT) offering?



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… and can be used for multiple use cases for Data Analytics

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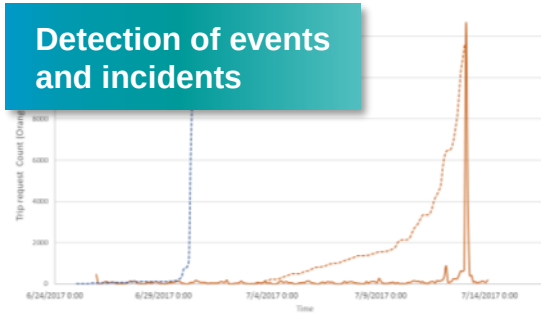
Detection of events and incidents



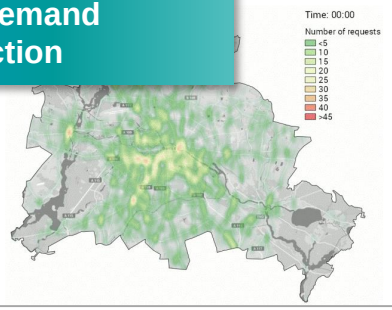
Demand prediction

First/Last mile coverage

Quality of transfer points

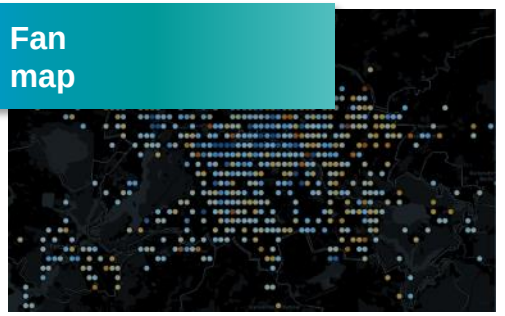
Events and incidents

Bus demand prediction



Public vs. individual transport

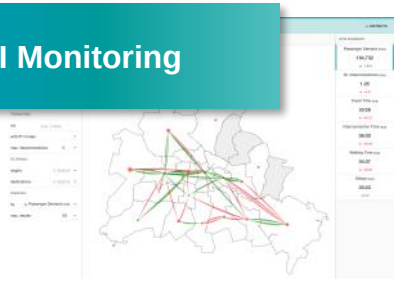
Fan map



Disruption management

Rail Replacement Service

KPI Monitoring



What answers lie in your data?

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MaaS solutions to enhance the passenger experience and to drive the operational excellence of operators

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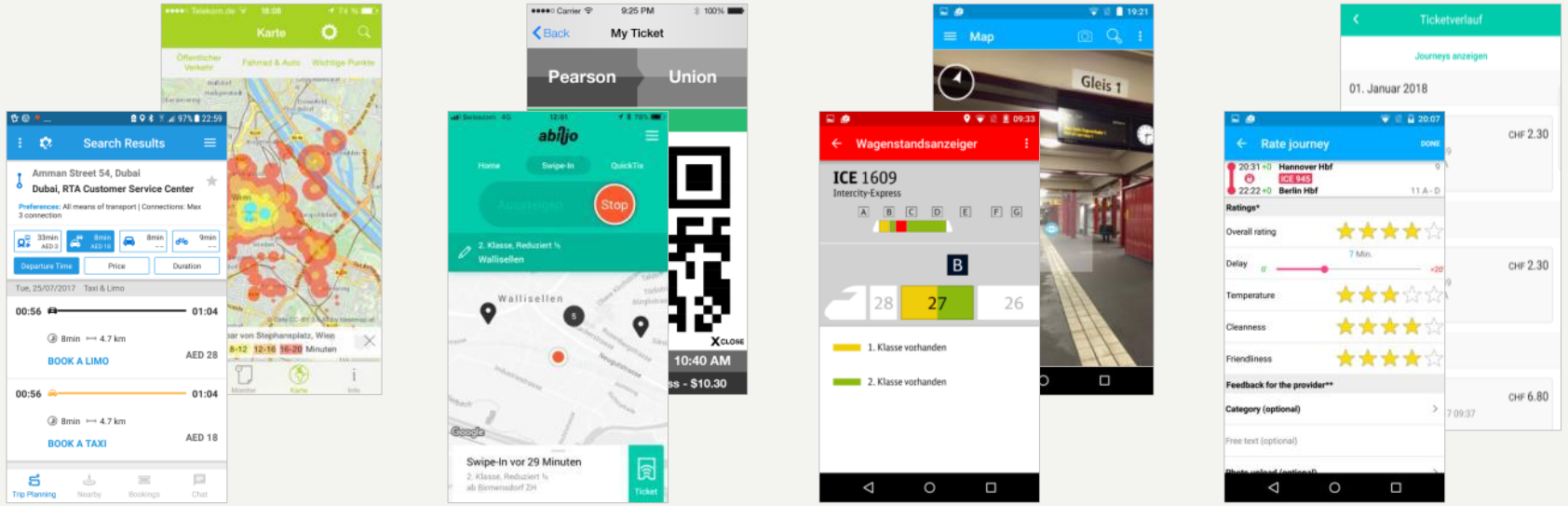
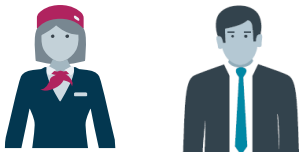


Passengers

- **Seamless travelling**
- **Personalized & individualized**
- **Flexible choice of transport**

Operator / Authority



- **Understand passengers**
- **Improve operations**
- **Orchestrate mobility**

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Step-by-step towards increased convenience of mobile ticketing and enhanced passenger experience

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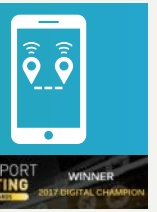
POSTPAID Ticketing
BEST PRICE Option

4) Be-in/Be-out (BiBo)

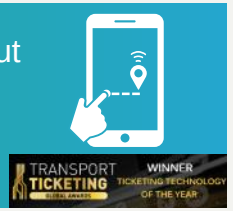
- Fully automatic: detection of check-in/check-out, selection of ticket
- No stop, maximum throughput: Fast boarding and exiting
- Direct communication between smartphone with beacon broadcast and backend system or via onboard unit (optional)



Hardware based

3) Check-in/ Be-out (CiBo)

- Passengers actively set the start of their trip, automatic check-out and selection of ticket
- Direct communication between smartphone with beacon broadcast and backend system or via onboard unit (optional)



Hardware supported

2) Check-in/ Check-out (CiCo)

- Automatic selection of ticket: easy and without hassle
- Passengers keep level of control and gain trust into ticketing system
- Direct communication between smartphone and backend system

- *Integration of XiXo SDK into existing apps optional*
- *Step-by-step shift of function within app*

1) Mobile Ticketing "Classic" PREPAID

- Passengers select and buy the ticket for the journey they want to make requiring an understanding of the fare scheme
- Operators can reduce sales cost with need of paper tickets and ticket vending machines

Smartphone only

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CiCo: Ticketing made easy – for public transport Switzerland

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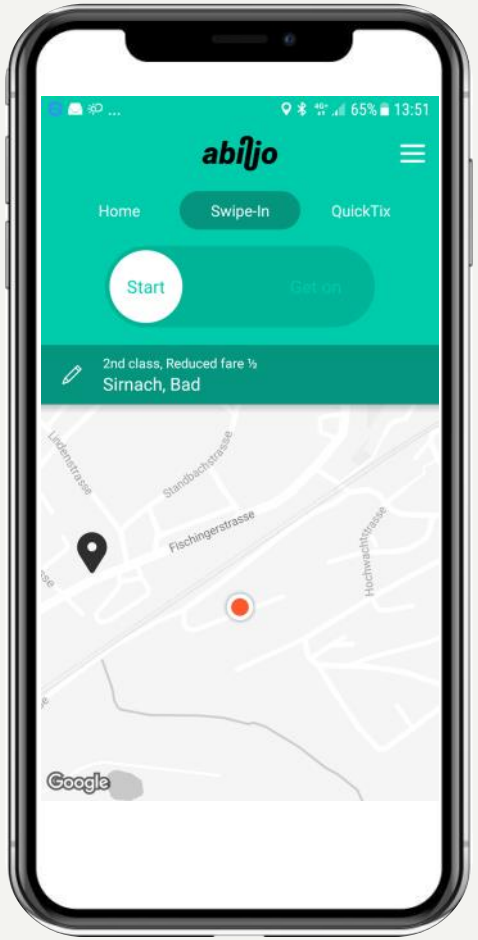

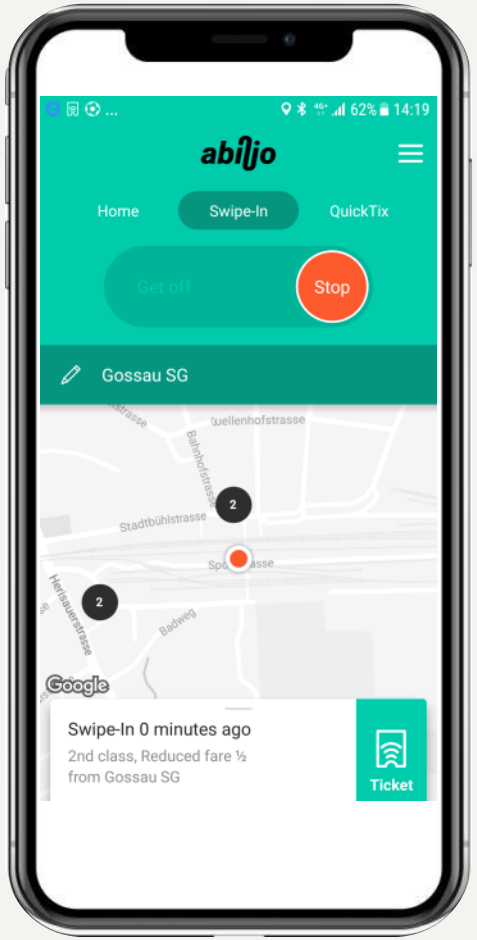

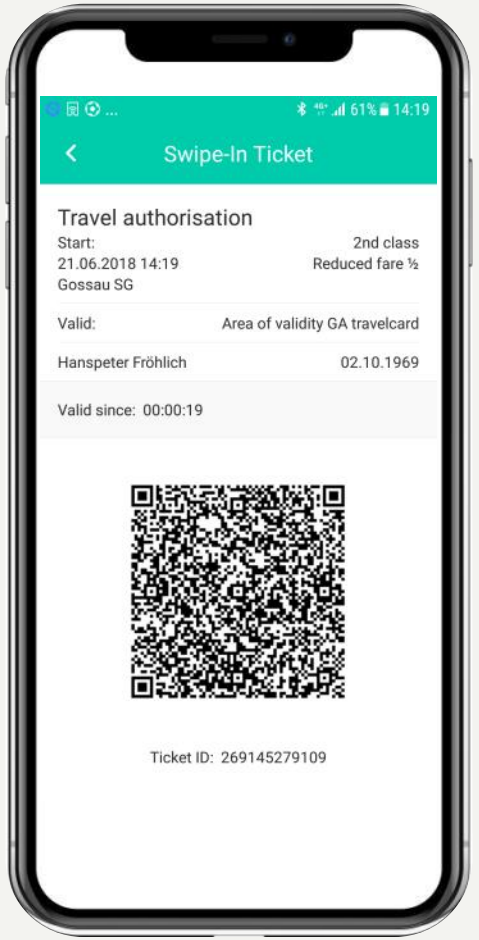

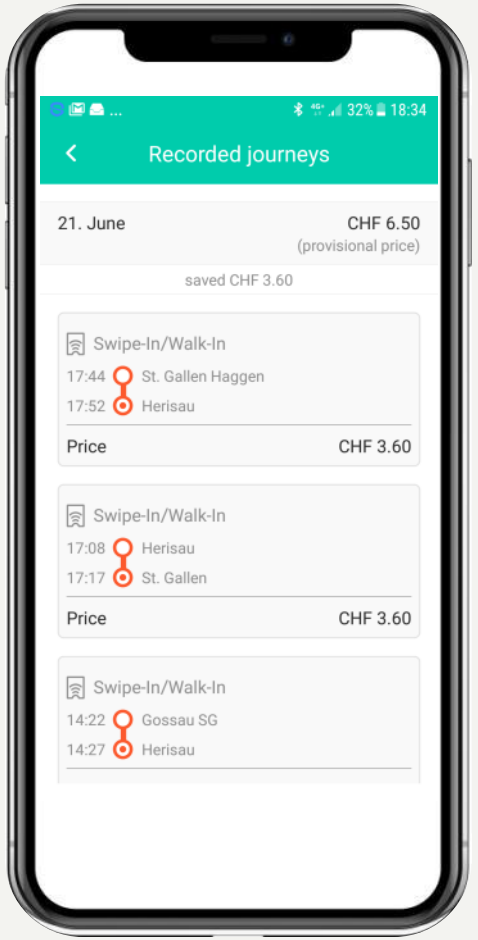

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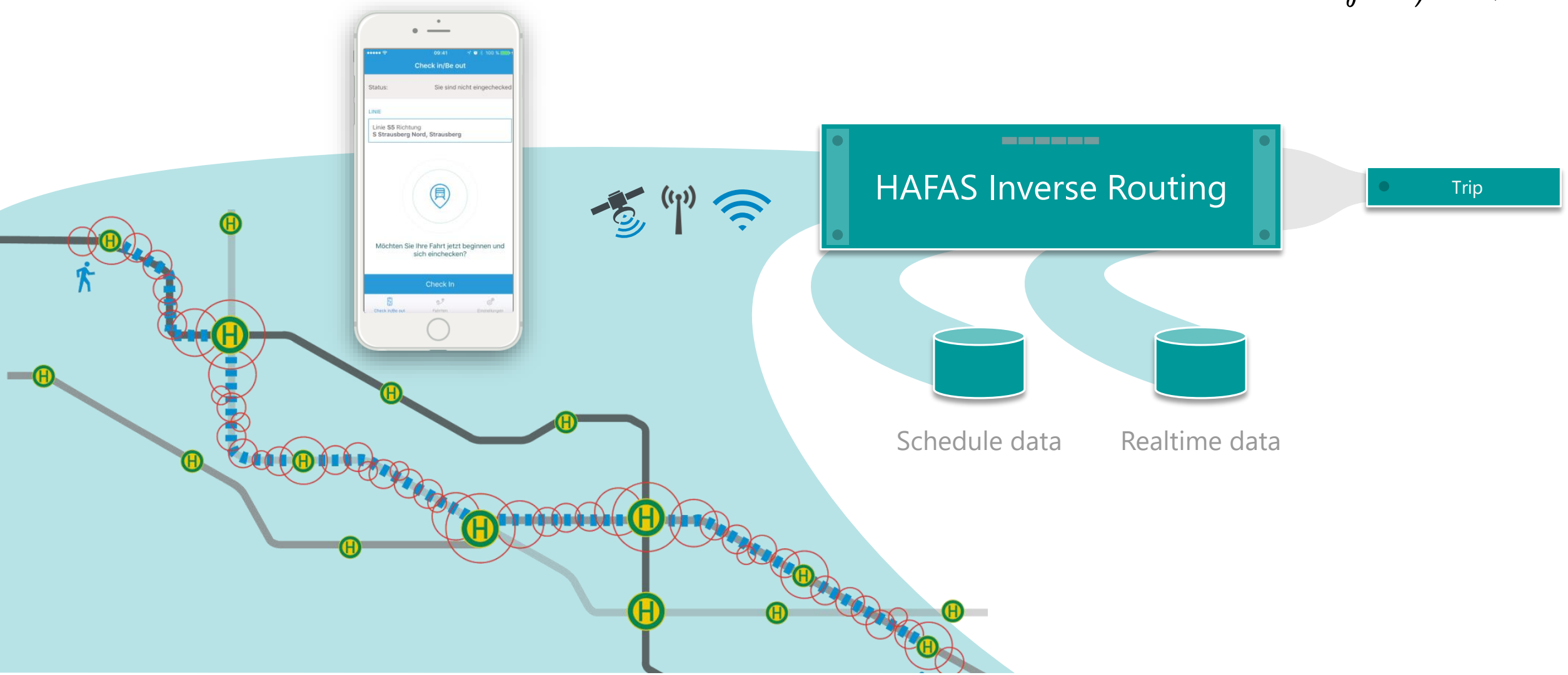
Trip Matching



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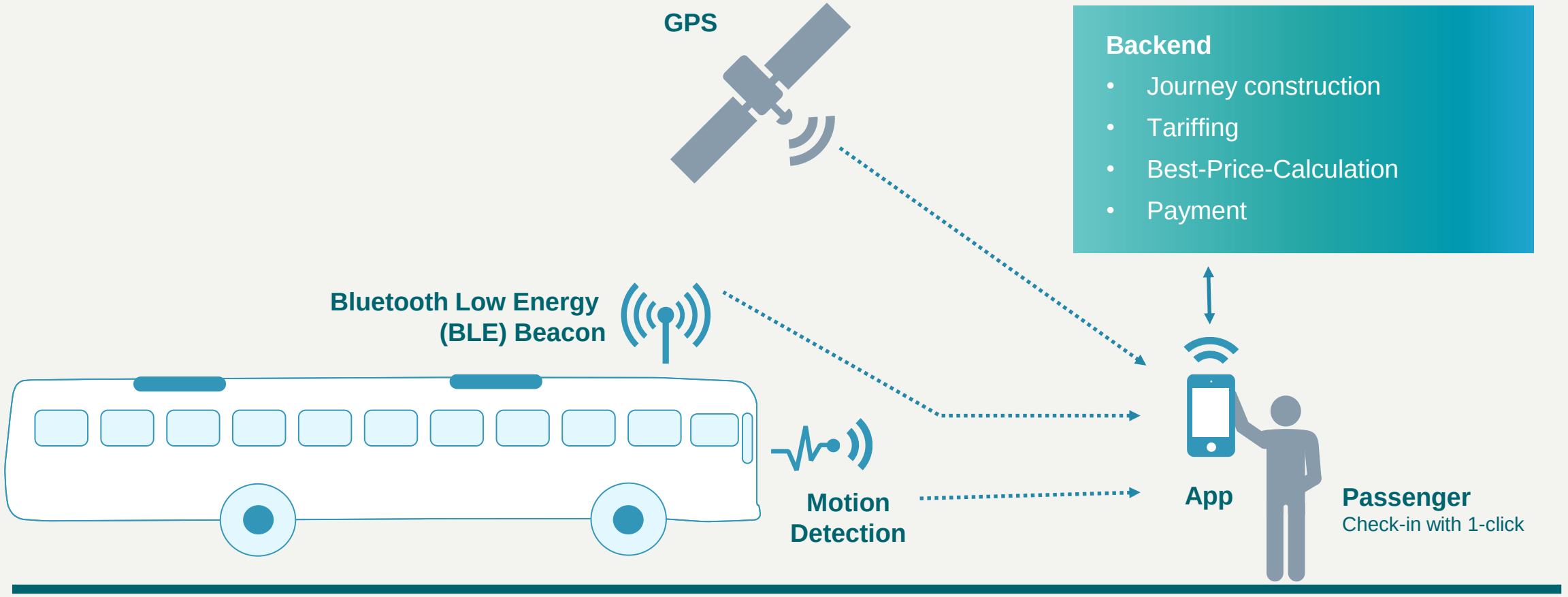
XiXo Ticketing – from mobile ticketing to CiCo, CiBo, BiBo …



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Contact information

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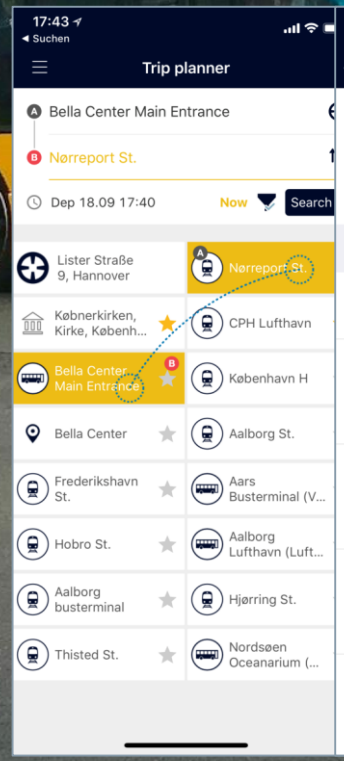
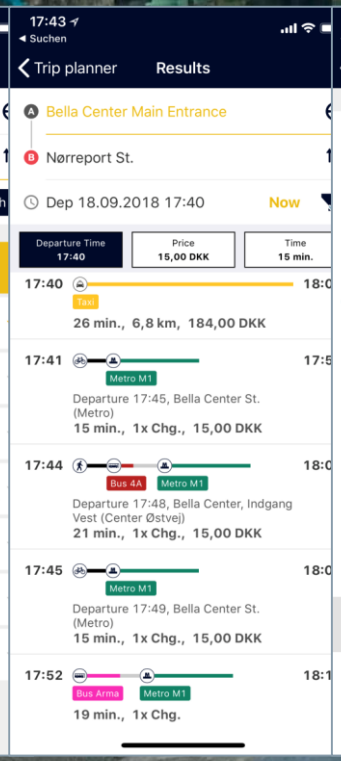
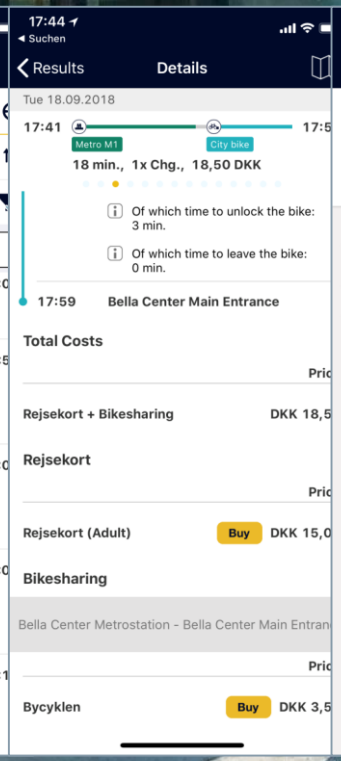
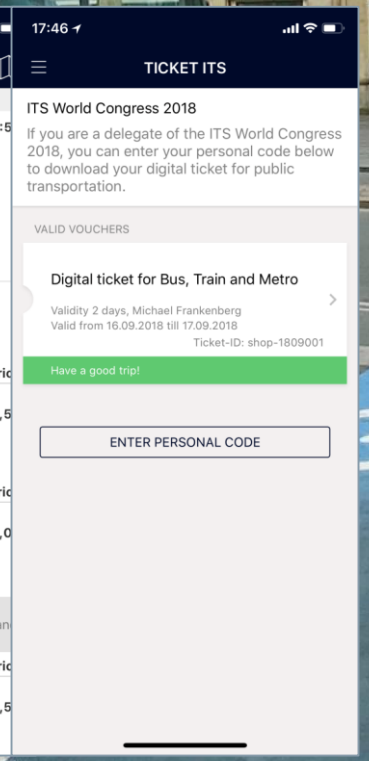
Backup

Multimodal Trip Planning and Booking in Denmark









4.1 ★★★★½ STARS

+4 Mio DOWNLOADS

Rejseplanen

MinRejseplan (2nd version)

MaaS Platform

in Dubai

The **Dubai Integrated Mobility Platform (DIMP)** fulfils **RTA's vision of safe and smooth transport** for all & supports its strategic goals of **Smart Dubai, Integrated Dubai and People Happiness**

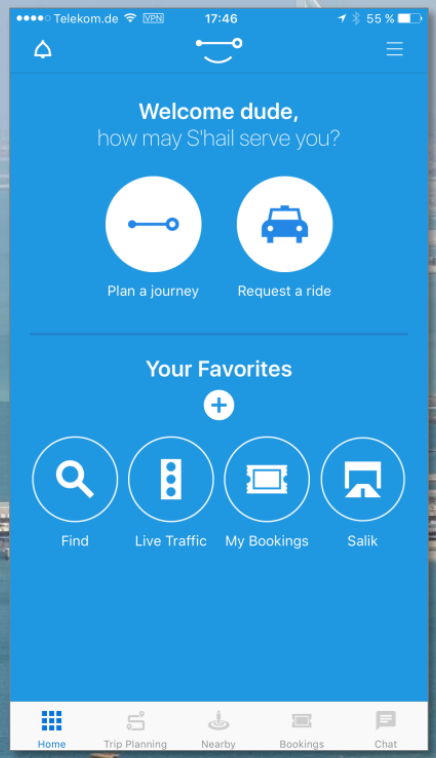
4.1 ★★★★½ STARS

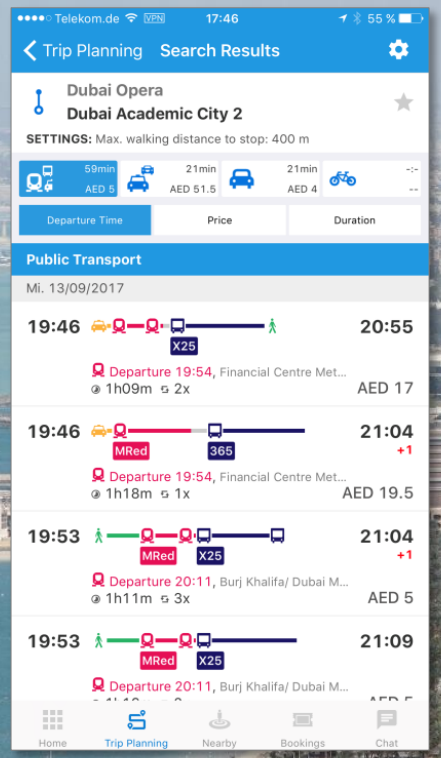
+250 k DOWNLOADS

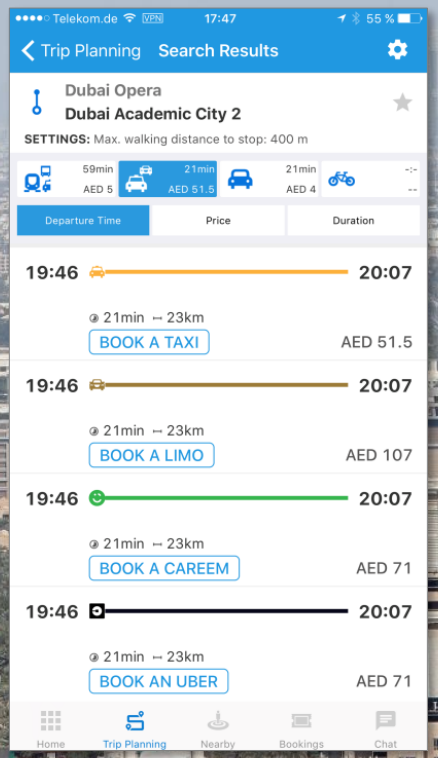
530 Mio
passengers p.a.

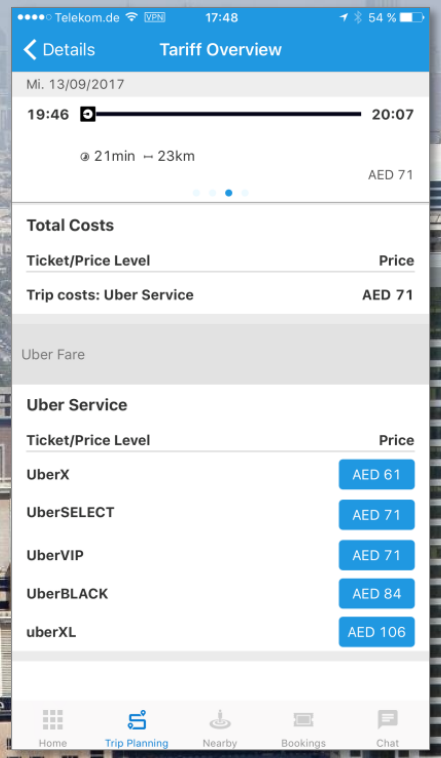
79 metros,
3000 buses,
9500 taxis,
11 trams, 5 ferries,
1 mono rail

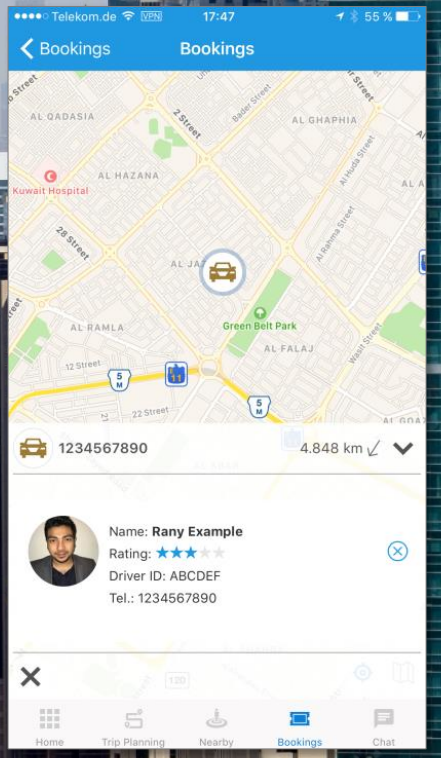
سهيل S'hail











Switzerland: World premiere for Be-in/Be-out ticketing

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SÜDOSTBAHN

- abilio app with “Walk-in” option for **Be-in/Be-out ticketing** in whole train and bus fleet of Südostbahn
- **Smartphone based Check-in/Check-out ticketing** for the whole of Switzerland (abilio feature “swipe-in”)
- **Best Price Guarantee**
- **Intermodal trip planning** and payment options across modes

abilio app available

Laden im App Store
JETZT BEI Google Play

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