

Enabling Smart Mobility.

Fluidtime





## Fluidtime at a glance

*Enabling Smart Mobility*



B2B solution provider for fully integrated mobility services

Combine all modes of transport towards a user-centric mobility service



## About Fluidtime

### IT solution provider for the mobility domain

- domain expert with 10+ years experience
- Consulting, Development and Operation of IT- Solutions

### 40 employees

- 25 IT Experts
- 3 User Experience Designer

### Innovation

- Approx. 15 ongoing (inter)national R&D projects



Enabling Smart Mobility.



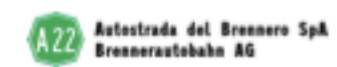
# Fluidtime

# Clients and Partners

## Österreich



## International



## Verbände





# Integrated mobility to cope with today's challenges

Population in urban areas is constantly growing

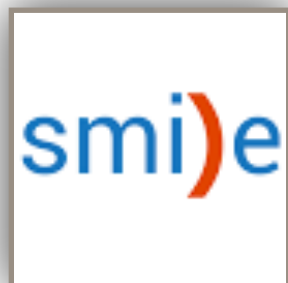
Provides solutions to deal with increasing mobility demand

Variety of (alternative) mobility services is increasing

Provides services for users to simplify intermodal mobility

Enables transport operators to become mobility provider

## References



Vienna



Klagenfurt



Salzburg



Graz



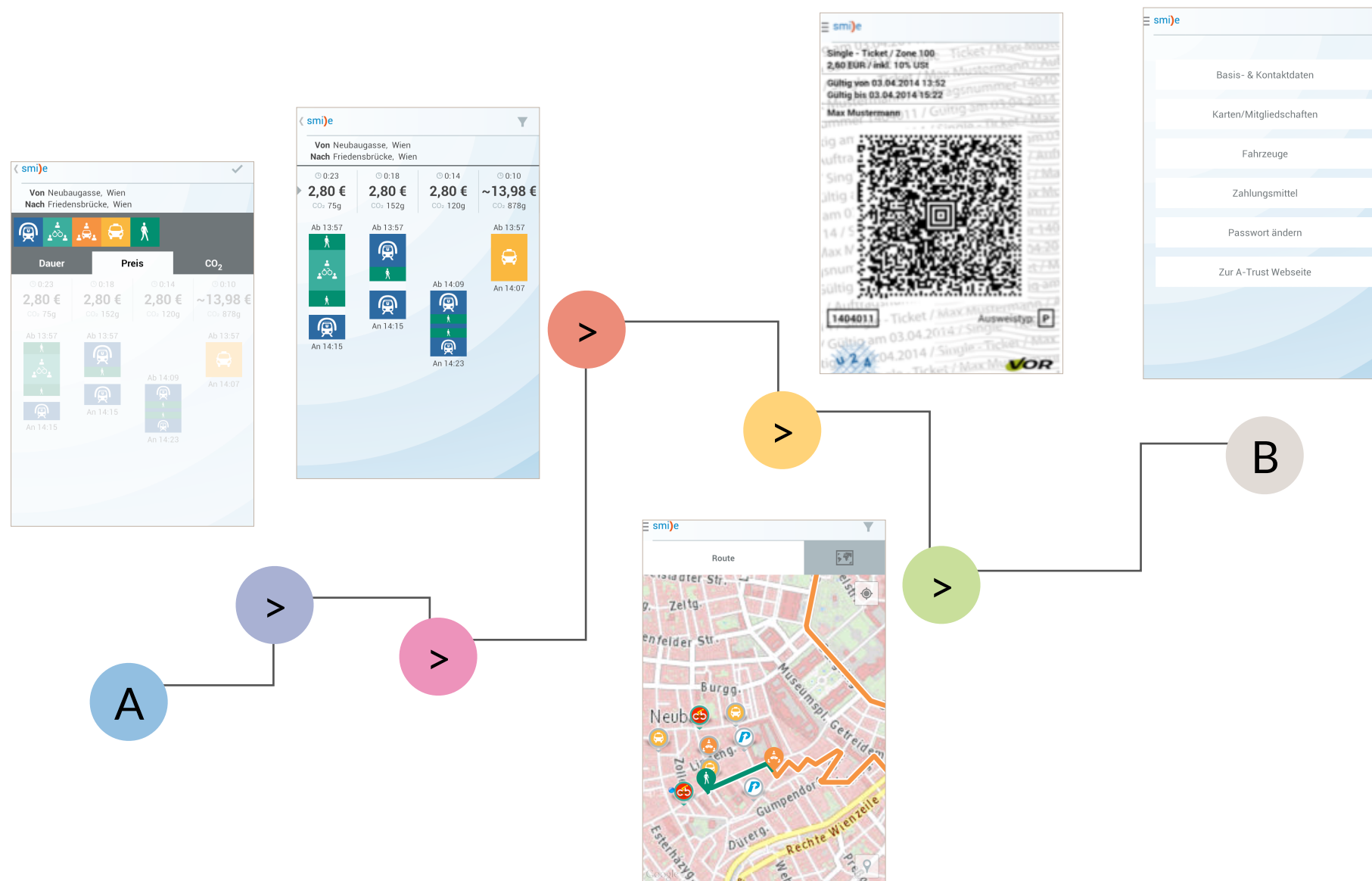
Linz



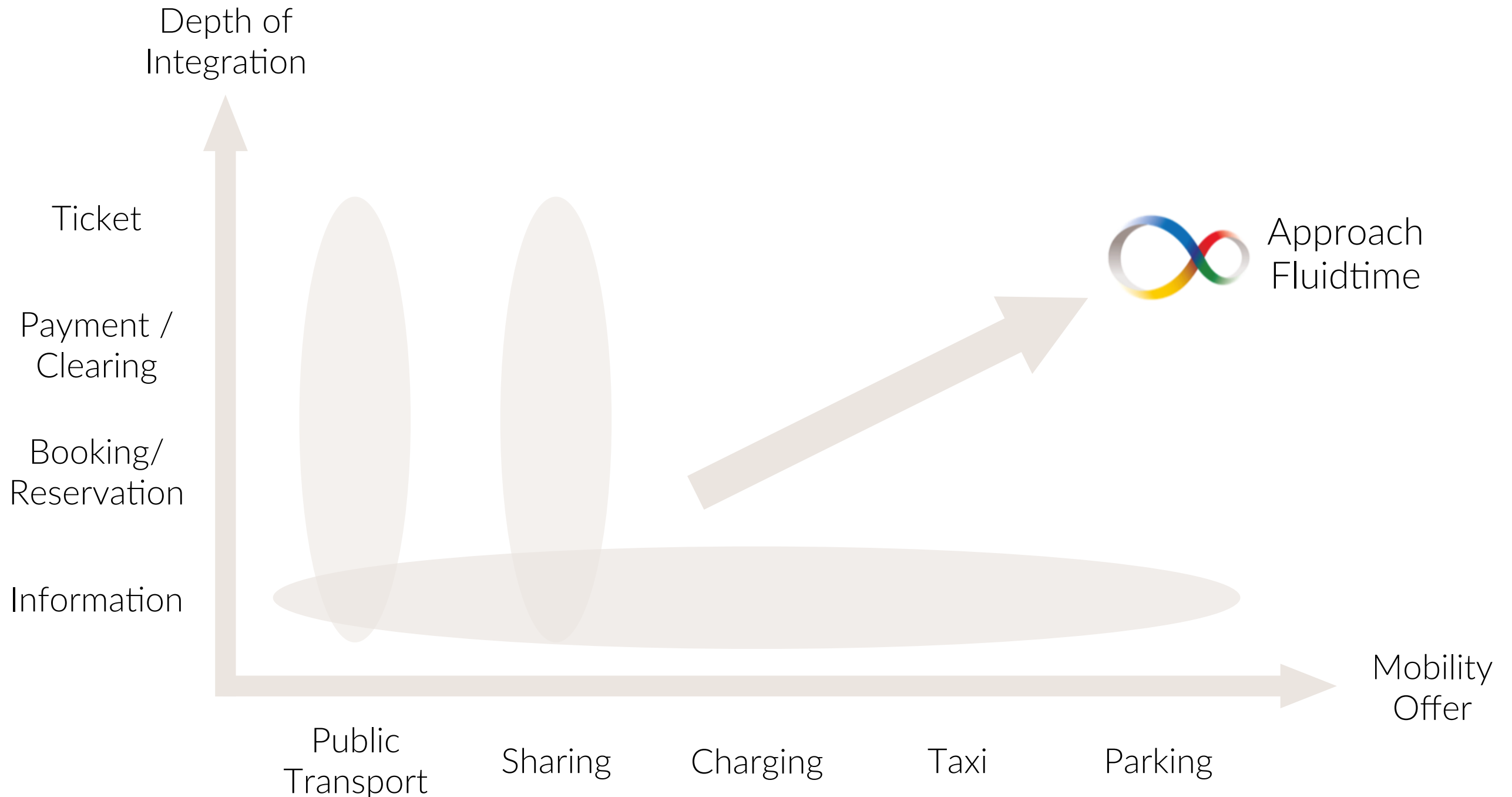
Aachen



# Integrated mobility from a user's perspective



# Two dimensions of integrated mobility





# Four Areas of Activity

## Inform about mobility offerings

- Intermodal routing
- Navigation
- Real-time information
- Disruption information

## Sell transportation services

- Reservation
- Check in/out
- Ticketing
- Combined tariffs

## Learn from users

- Feedback
- Tracking
- Usage statistics
- User profiles

## Customer acquisition and motivation

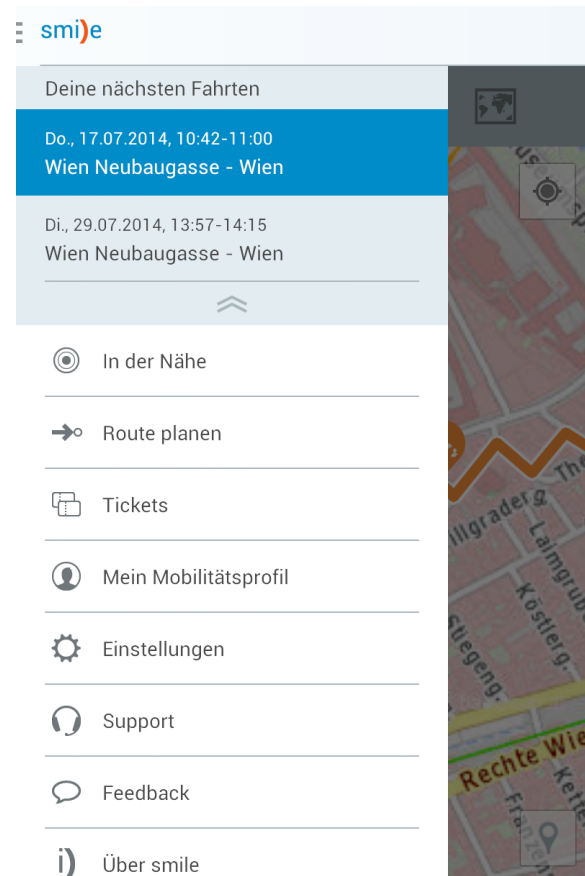
- Loyalty and bonus programs
- Quizes
- Advertising

Data Integration, management and quality control





# Intermodal Routing - Informing customers



## Saved routes for future

Access to all functionalities happens in the sidebar menu



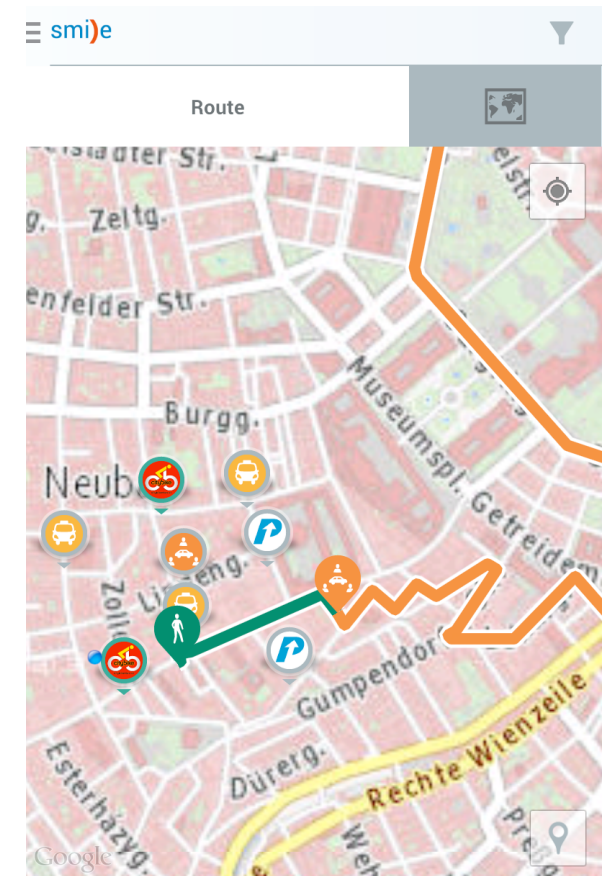
## Intermodal Meta- Routing

eMobility Router  
Verkehrsauskunft Österreich (VAO)  
Local Router for Vienna / Graz / Linz



## Filter

Filtering of mobility offerings and selection by price, duration and CO<sub>2</sub>

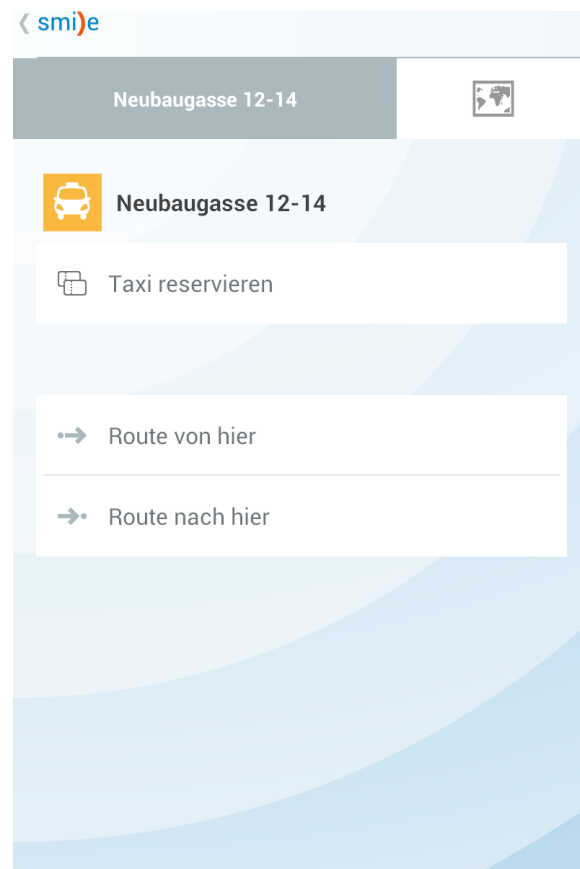


## Routing and POIs

Detailed routing-information and mobility offerings based on actual location

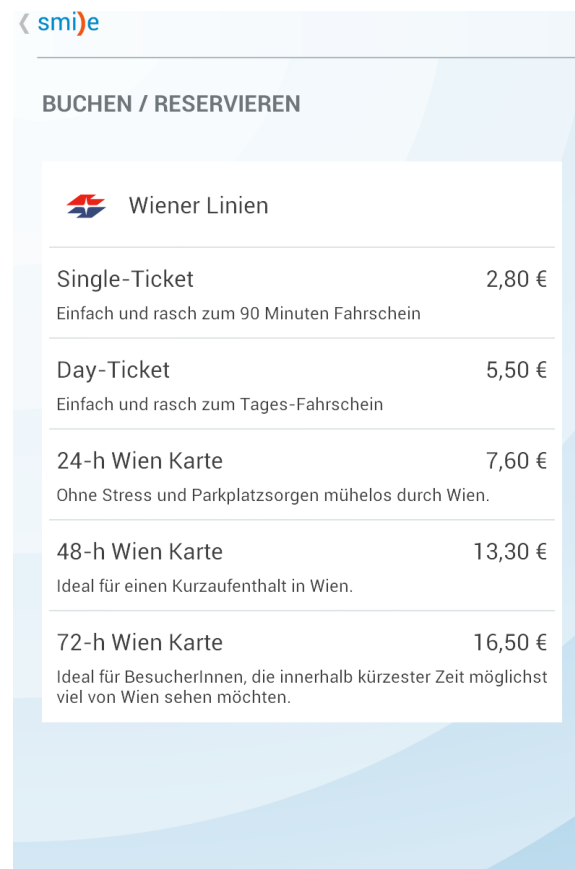


# Intermodal Ticketing - Selling mobility services



## Booking

Taxi ordering, parking garage reservation, car-sharing reservation (car2go, Flinkster), Twin City Liner Booking



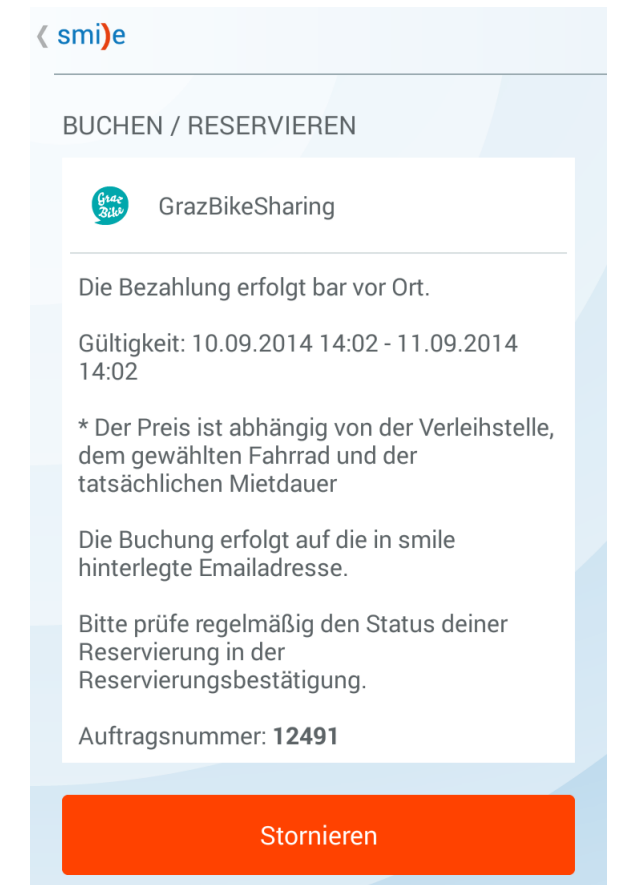
## Ticketshop

Integration of different public transport authorities ticketshops within the area of usage



## Ticket

Ticket integration of all connected transport operators with individual security standards



## Cancellation

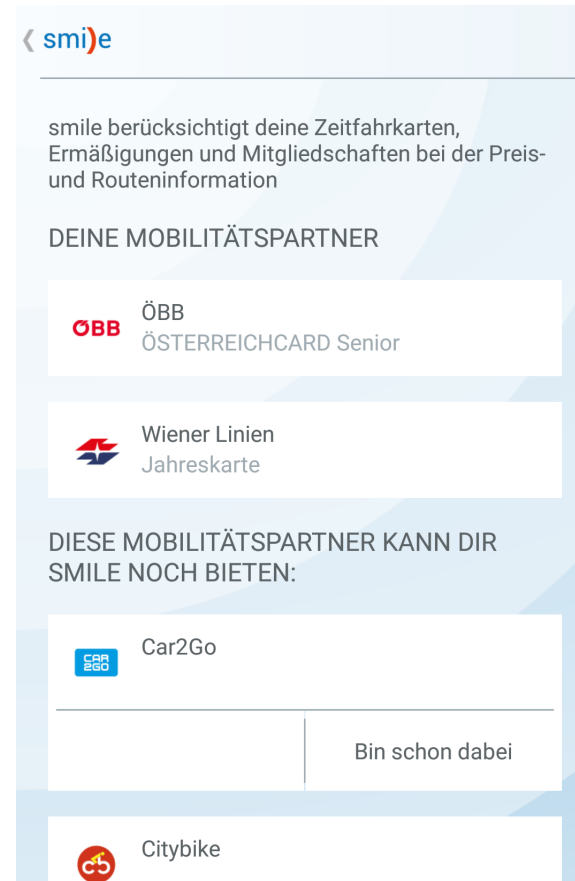
Individual cancellation terms and conditions



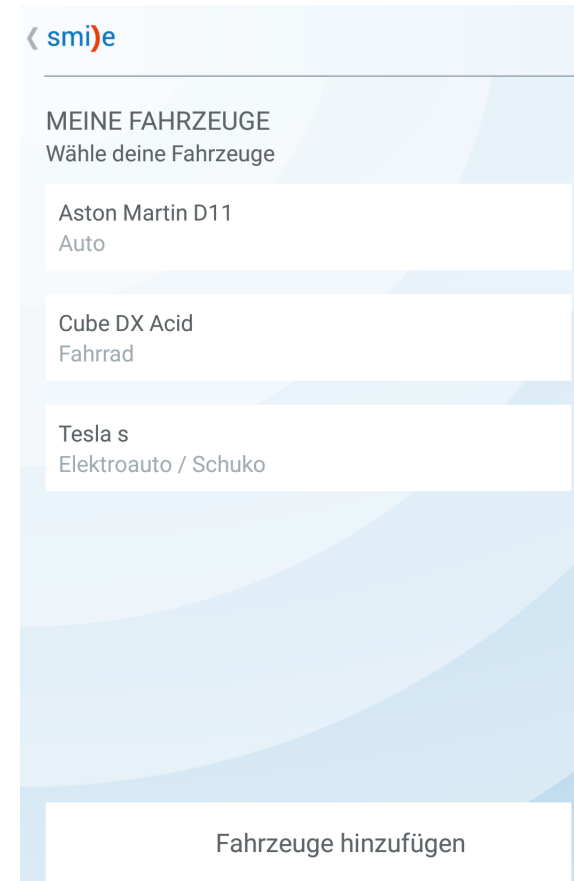
# Profil - Learning from customers



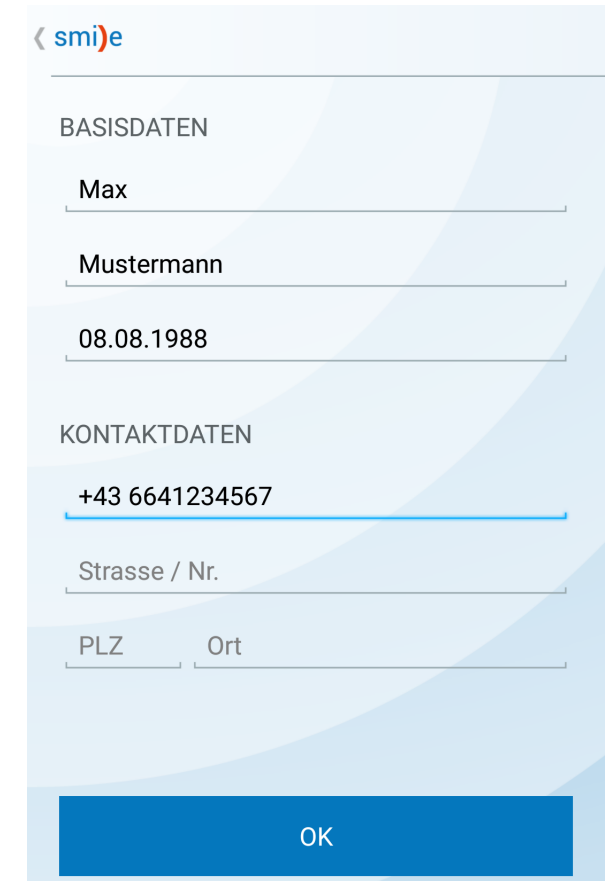
**Mobility profile**  
Central administration of memberships and personal mobility preferences



**Memberships**  
Inclusion of memberships and bonus programs for routing decision and pricing



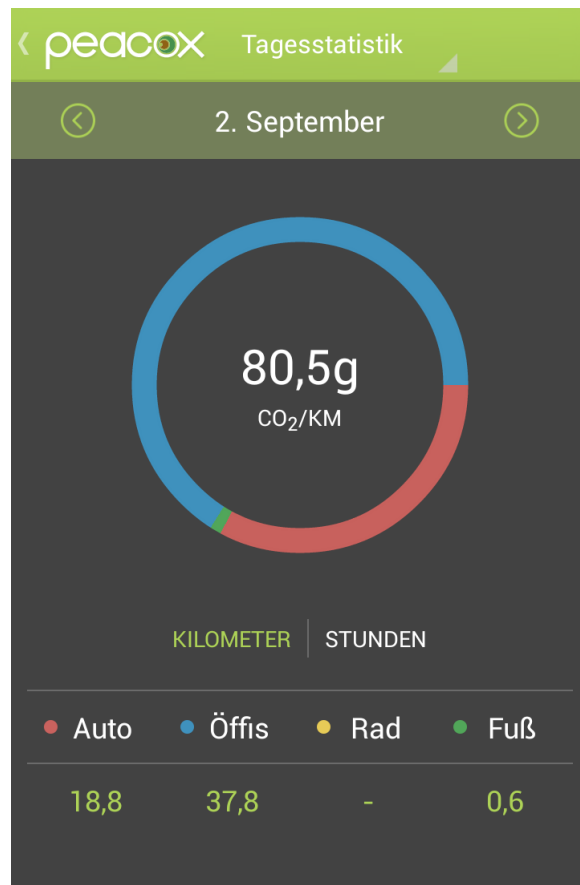
**Customer vehicles**  
Inclusion of own vehicles for routing decision



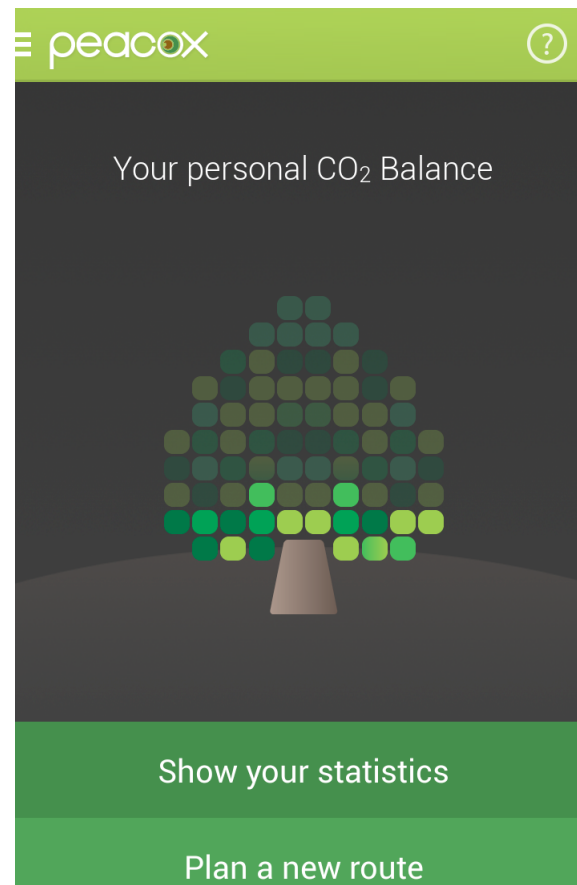
**On Demand Delta registration**  
Step-by-step completion of user data (based on requirements)



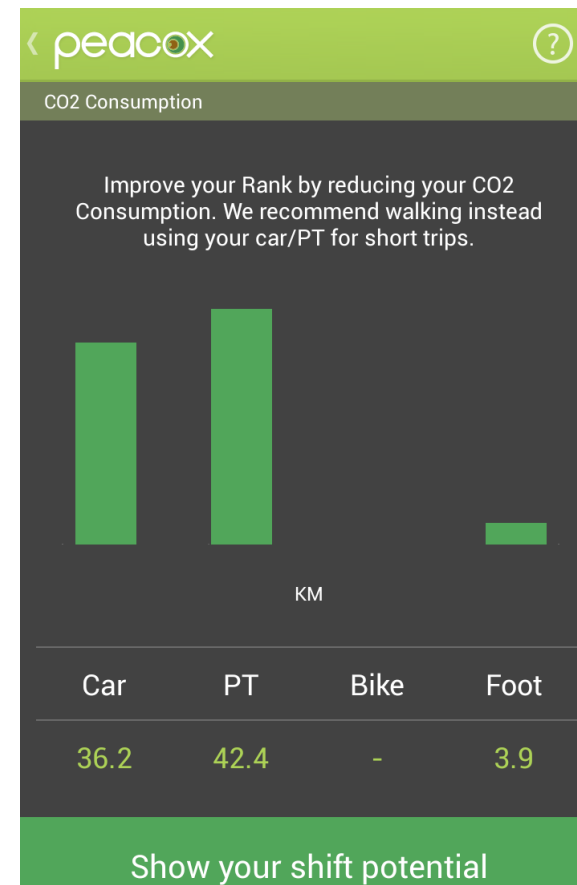
# Acquiring and motivating customers



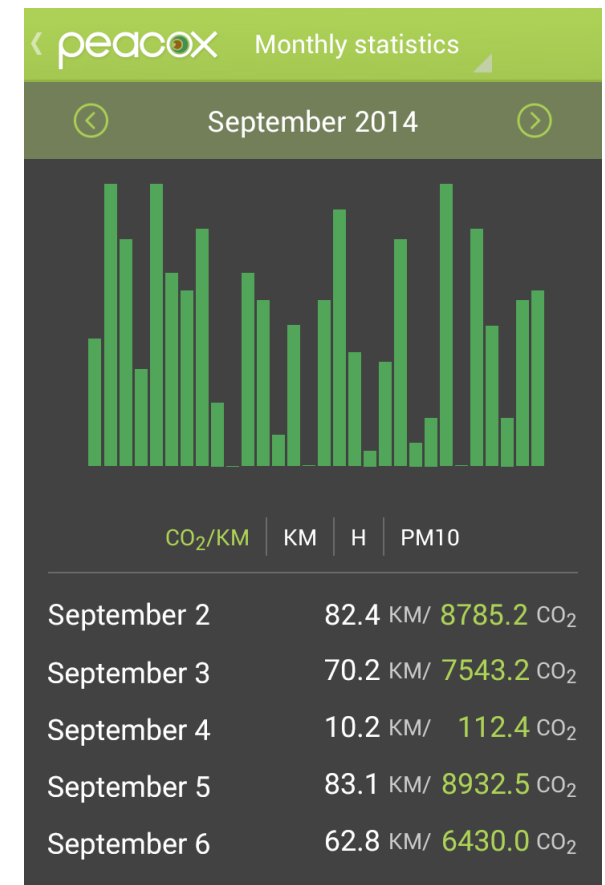
Personal modal split  
Car, Public Transport, Bike, Foot



Personal CO<sub>2</sub> balance  
Visualizing environmental impacts of personal mobility profil



Competition  
Optimizing personal modal split based on customer ranking

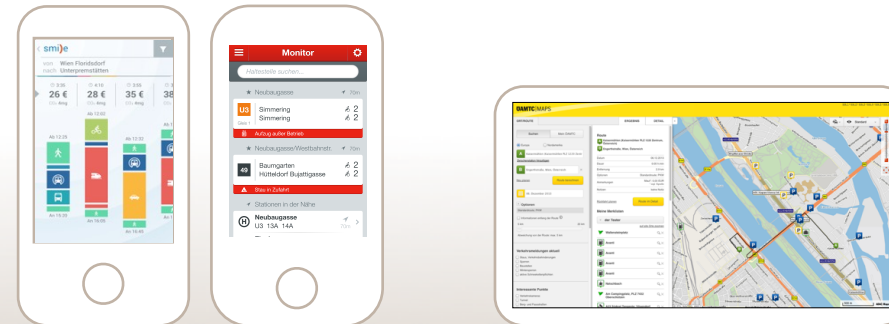


Monthly statistics  
Visualizing daily details concerning personal modal split and environmental impact

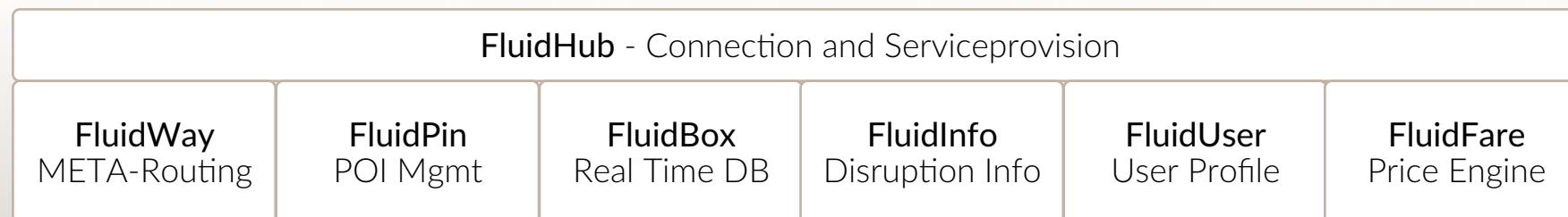


Customer with mobility needs

## Application Layer



## Integration Layer



## Interfaces

XML   TRIAS   JSON   VDV 453   VDV 454   SIRI   TPEG   CSV   IXSI   IPSI

## Data Service Layer

*Routing*   *Routing*   *RBL*   *Disruption Mgmt*   *POIS evices*   *Ticketshops*  
*Routing*   *RBL RBL*   *Push Service*   *CMS Systems*   *OGD Plattformen*   *Authentication*

## Data Layer

*Schedule Data*   *AdressDB*   *Point of Rental*  
*Schedule Data*   *AdressDB*   *Position Data*   *Disruption Info*   *Tarif Conditions*  
*GIS DB*   *GIS DB*   *Positio Data*   *Point of Rental*   *Disruption Info*   *Cancelation Conditions*   *User DB*





Router	POIs		Auskunftsmöglichkeiten
		ÖV Router	
		+ Radrouter	
		+ POI Haltestellen	
		+ POI Radsharing Stationen	
		+ POI Radverleih	
		+ POI Park & Ride Anlagen	
		+ POI Carsharing (fixed)	
		+ POI Carsharing (floating)	



# Partnering

## More than the sum of its parts

**Tomorrow's regional/national mobility provider are our customers**

**Bringing together „traditional“ and „upcoming“ mobility services**

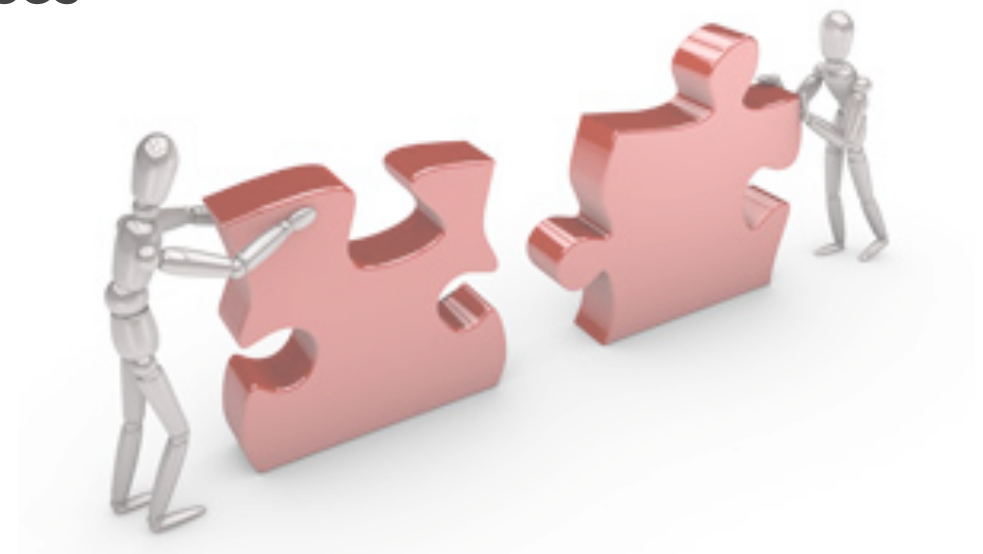
- Promoting cooperation at upcoming platform operators

**Cooperation with (collaborative) mobility services**

- Technical alignment, MoU, etc.

- Depth of integration

- Information
- User registration
- Reservation/Booking
- Ticketing





# The Fluidtime portfolio

## Point of contact for integrated mobility services

- *Enabling Smart Mobility*
- Support along the overall supply chain

## Fluidtime's USP

- Customer in the focus of the design & development
- Meta-Routing
- „Best of Breed“-Approach
- Agile development



Enabling Smart Mobility.

Fluidtime



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