

Organizing Public Transportation in a Changing World

Dr.-Ing. Martin Kagerbauer

INSTITUTE FOR TRANSPORT STUDIES, KARLSRUHE INSTITUTE OF TECHNOLOGY (KIT)



AGENDA

Changing

... Travel Behavior

... Modes, Concepts and Technology

Opportunities and Challenges

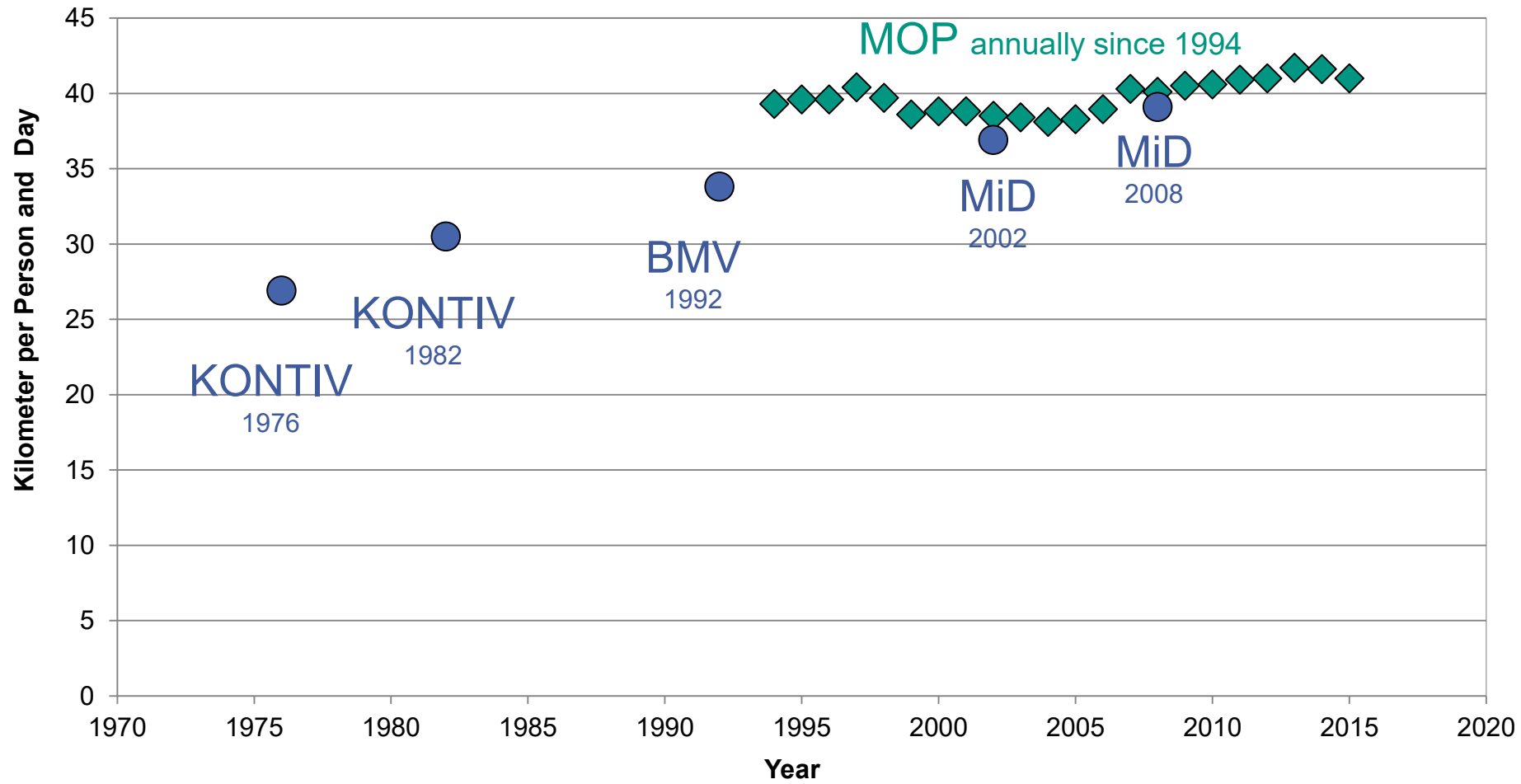
Transition from a Transport Authority to a Mobility Provider

... in General

... and a Project as an Example:



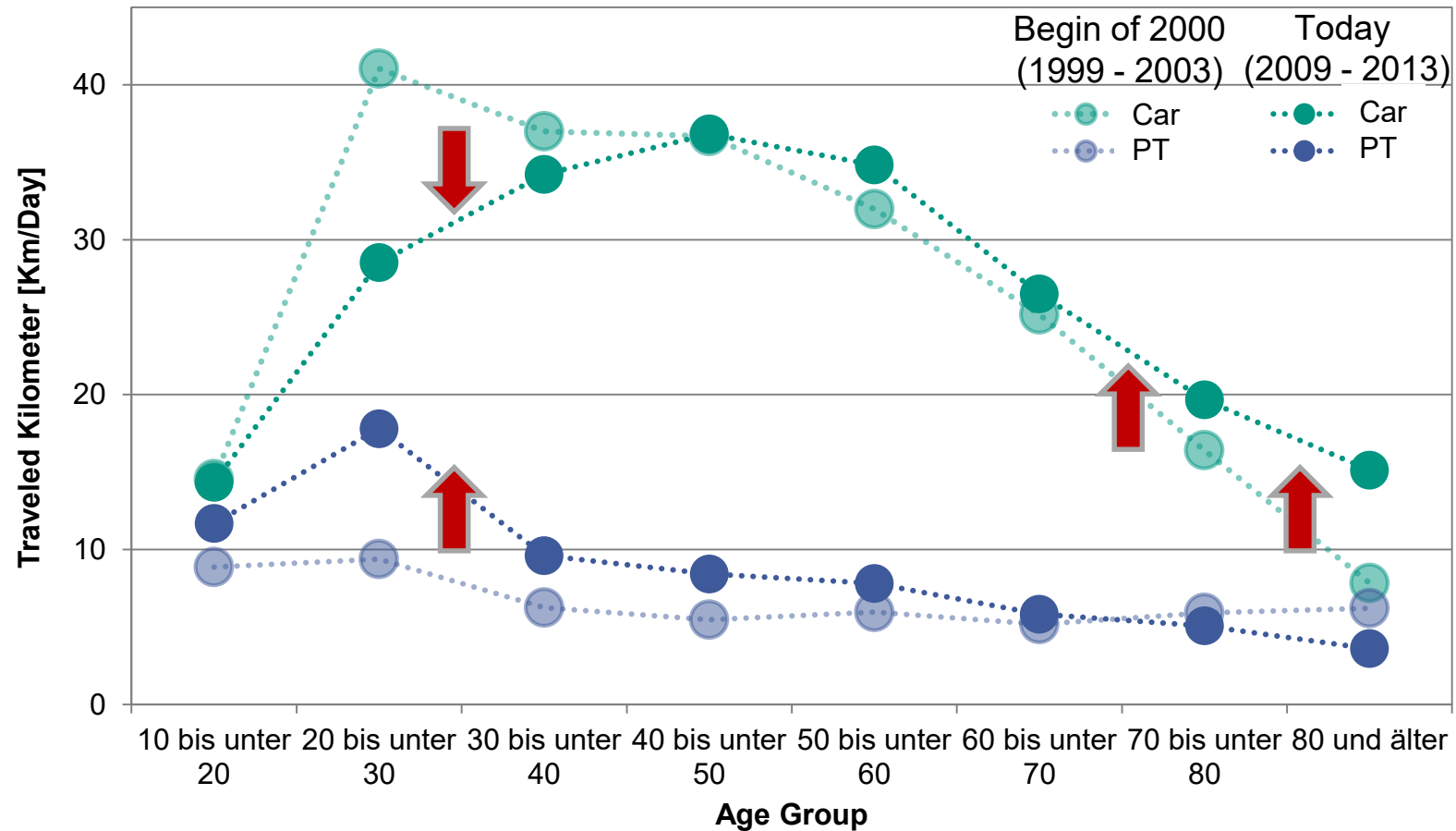
TRAVEL BEHAVIOR IN GERMANY



Analyses of German Mobility Panel (MOP)
and Mobility in Germany (MiD)

TRAVEL BEHAVIOR IN GERMANY

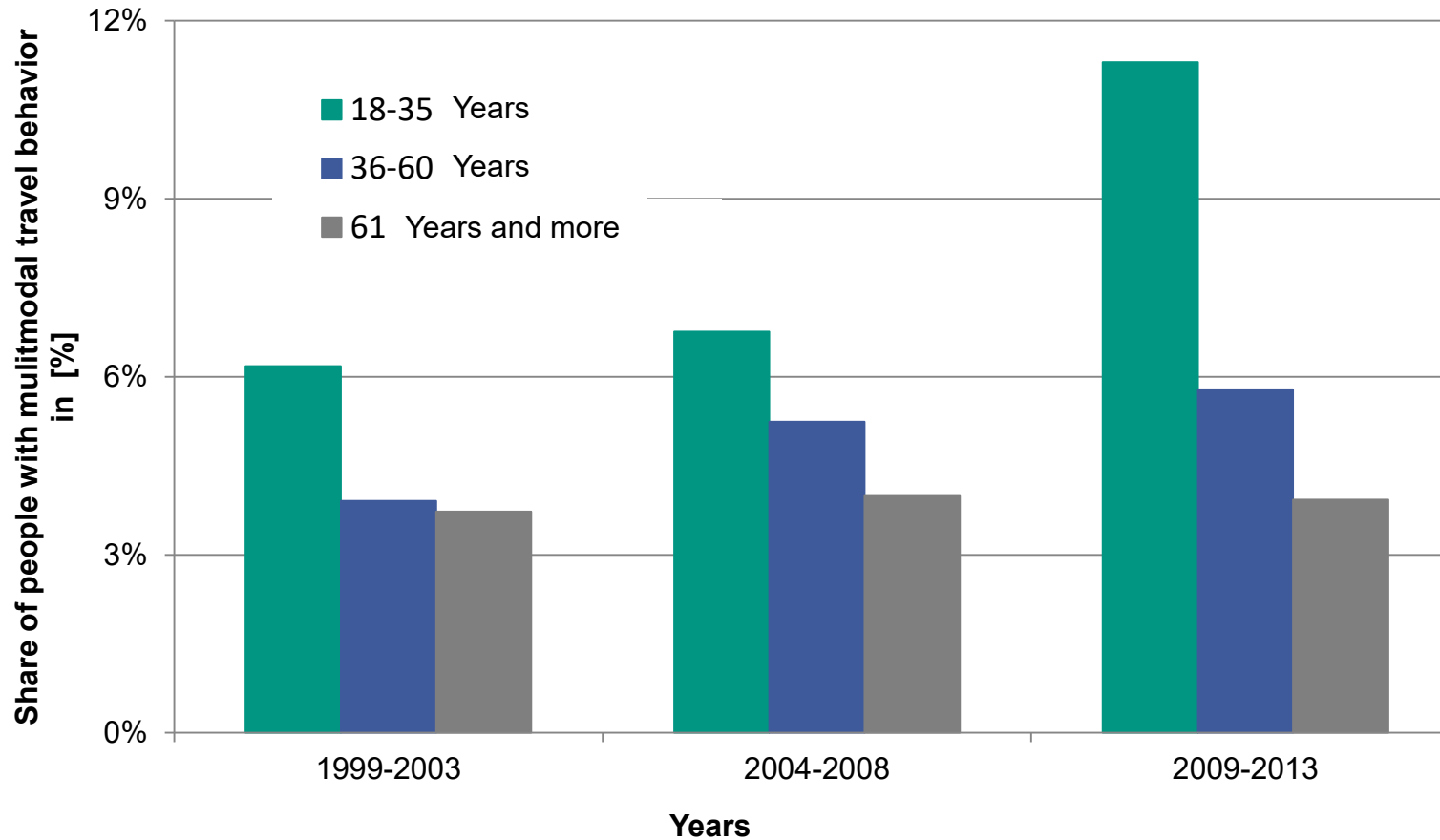
Car and Public Transit Usage in Different Age Groups



Analyses of German Mobility Panel (MOP)

TRAVEL BEHAVIOR IN GERMANY

Multimodal Travel Behavior*



* Multimodal Travel Behavior:
Usage of at least once
each mode:
Car, Bike, PT within a week

Analyses of German Mobility Panel (MOP)

(FUTURE) CONCEPTS AND TECHNOLOGY

Walking and Bike



Source: KIT-IfV

(FUTURE) CONCEPTS AND TECHNOLOGY

Car



Source: Own Picture

(FUTURE) CONCEPTS AND TECHNOLOGY

Public Transportation



Source: KIT-IfV

(FUTURE) CONCEPTS AND TECHNOLOGY

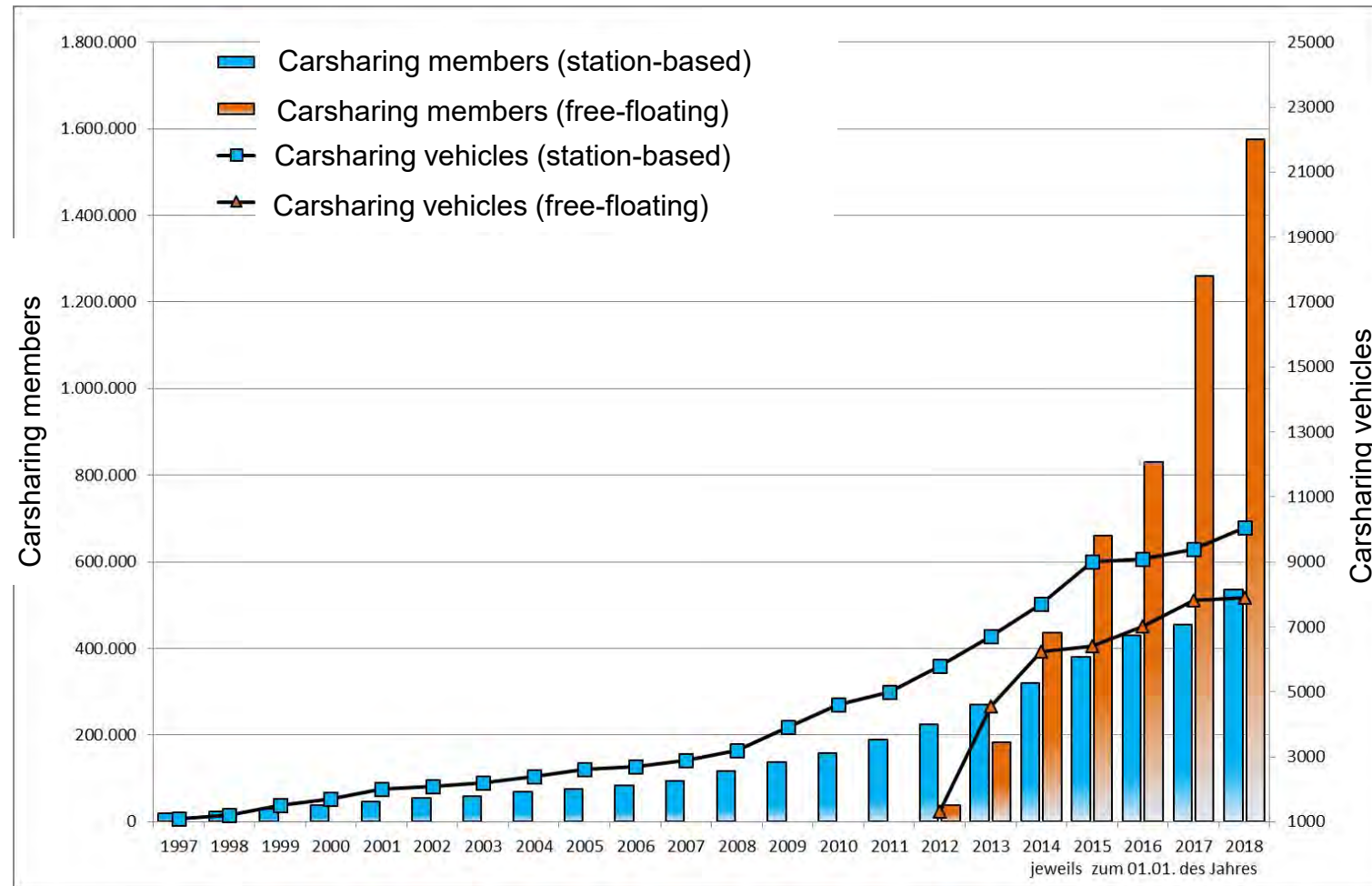
Pedelecs



Source: Own Picture

(FUTURE) CONCEPTS AND TECHNOLOGY

Carsharing in Germany



Source: Bundesverband für Carsharing, 2018

(FUTURE) CONCEPTS AND TECHNOLOGY

Bikesharing



(FUTURE) CONCEPTS AND TECHNOLOGY

Mobility Stations



(FUTURE) CONCEPTS AND TECHNOLOGY

Mobility Stations – Example Munich



Source: City of Munich

FUTURE CONCEPTS AND TECHNOLOGY

Ridesharing / Mobility on Demand / Mobility as a Service (MaaS)



FUTURE CONCEPTS AND TECHNOLOGY

Airtaxis



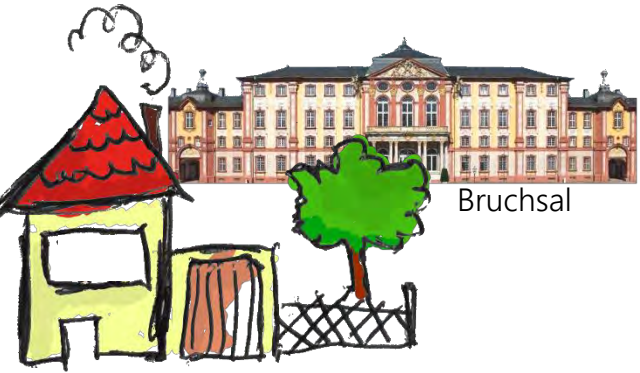
Organization of (Public) Transportation

Source: Kagerbauer et al., 2017

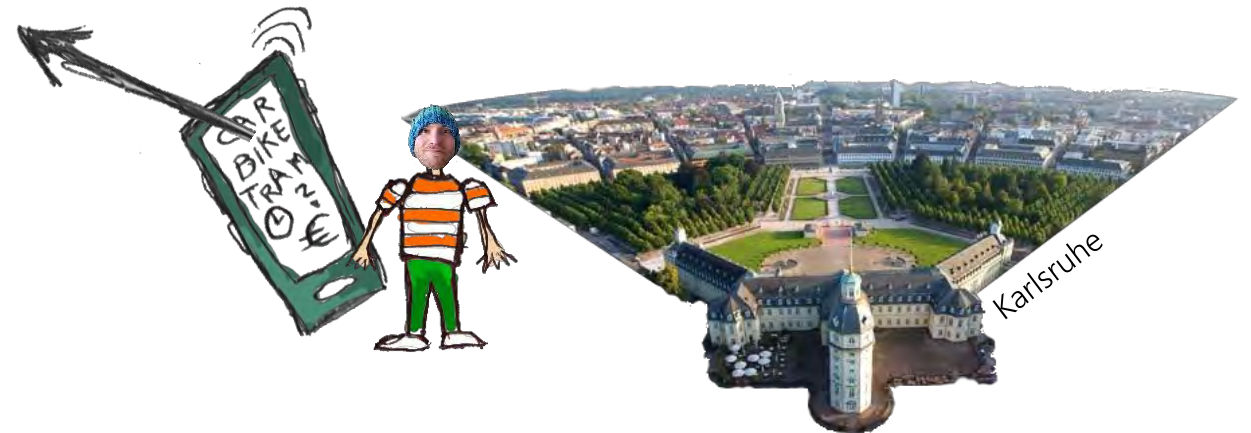
			Access		
			Private Access	Public Access	
	Mode	Extended Mode	Individual Usage	Individual Usage	Collective Usage
				one after the other	During Trip
Non Motorized	Walking	Walking	Walking		Mobility Provider
	Bike	Bike (not Shared)	Bike, Pedelec	Rikscha, Velotaxi	
		Shared Modes			
Motorized	Car		peer-to-peer Carsharing, private Ridesharing	Carsharing (stationbased, freefloating) also Motorbike, eBike, Rental Car	Ridesharing (Driver determines destination), Rideselling (Passenger determines destination)
		Car (not Shared)	Car, Motorbike		
	Public Transport	Public Transport		Taxi	Bus, Tram, Underground, Regional Train, Long Distance Train, Plane, Ship

PT

regiomove



Bruchsal



SINGLE SIGN ON



Registration

Name

Max Power

Pwd












OK



**SINGLE SIGN ON
PRÄFERENZEN**

regio
move

Mode preselection

- | | | | |
|-------------------------------------|---|--|-------------------------------------|
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| <input checked="" type="checkbox"/> |  | | <input checked="" type="checkbox"/> |
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OK



Bruchsal

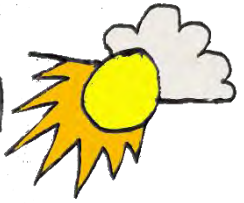
SINGLE SIGN ON
PRÄFERENZEN



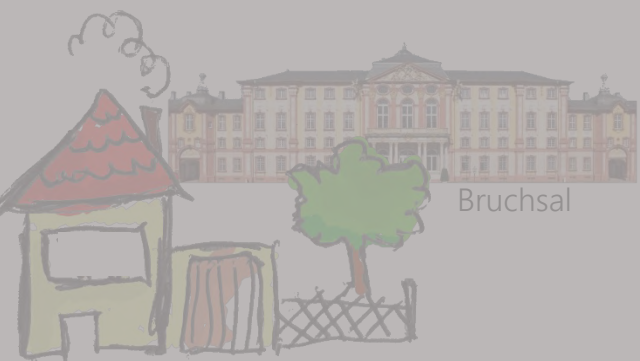
Bruchsal

regio
move

Other Preferences



OK



Bruchsal

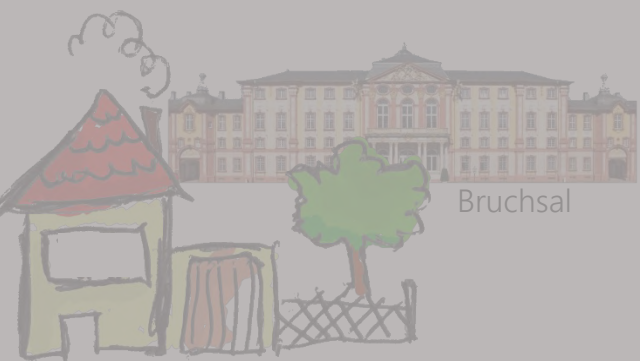
regio
move

Destination



OK

SINGLE SIGN ON
PRÄFERENZEN
ONE KLICK



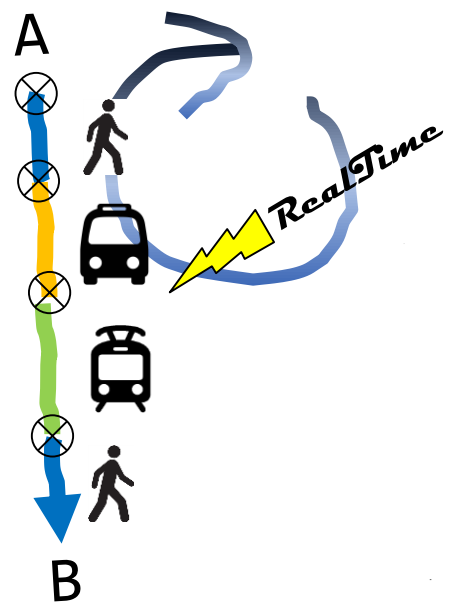
Bruchsal



Information

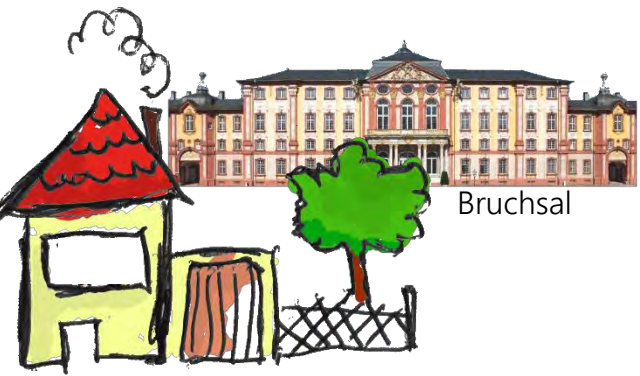


VON A
NACH B

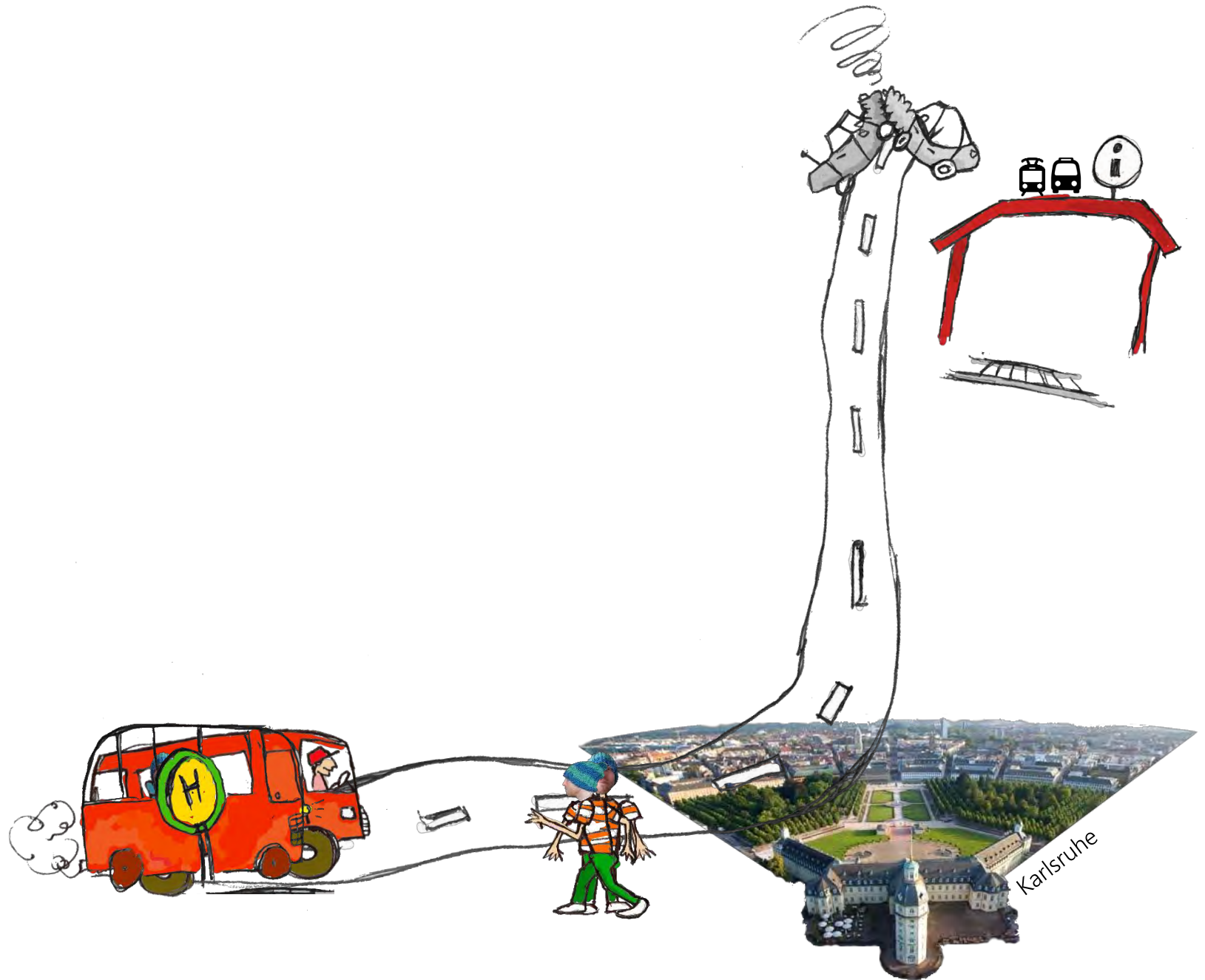


BUCHEN

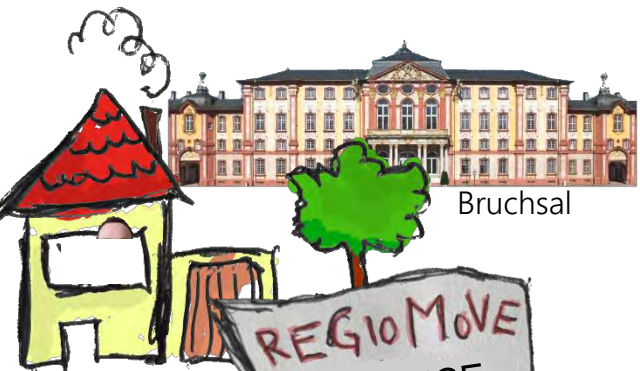
SINGLE SIGN ON
PRÄFERENZEN
ONE KLICK
ECHTZEIT
INTERMODAL



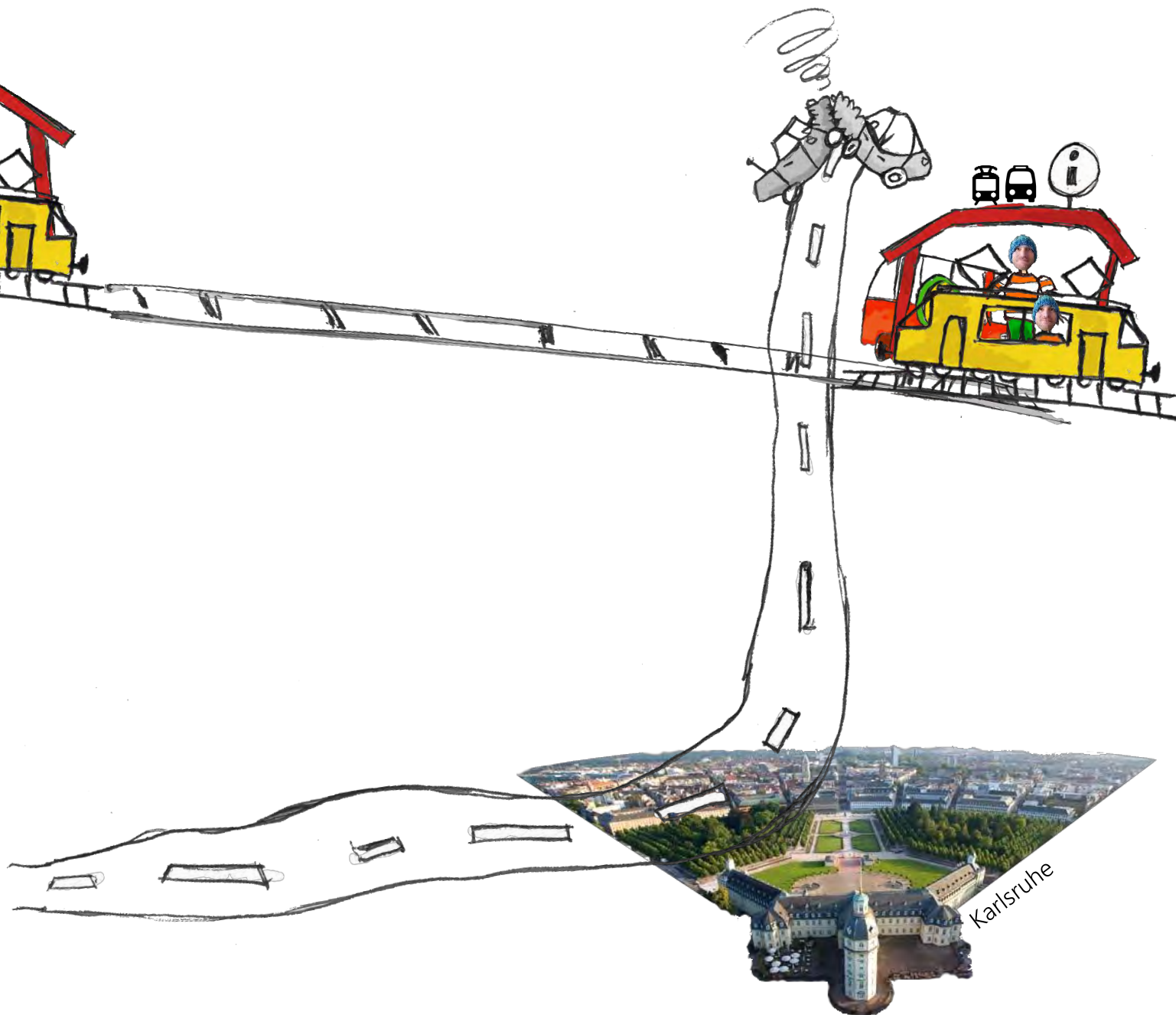
Bruchsal



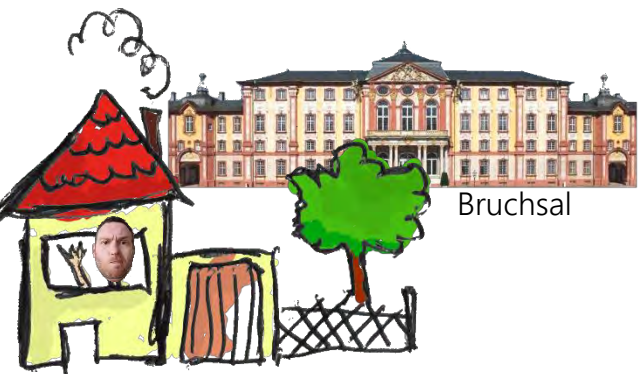
Karlsruhe



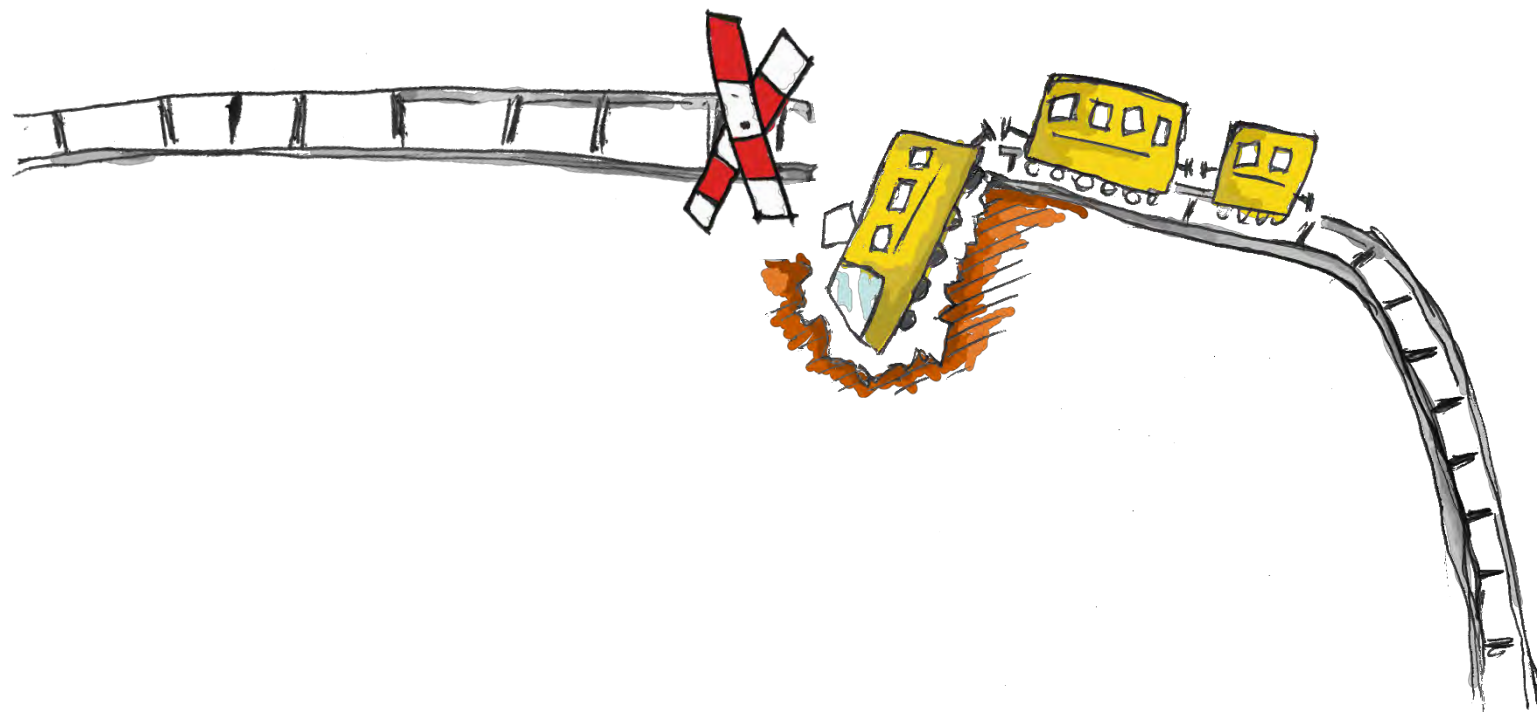
Bruchsal



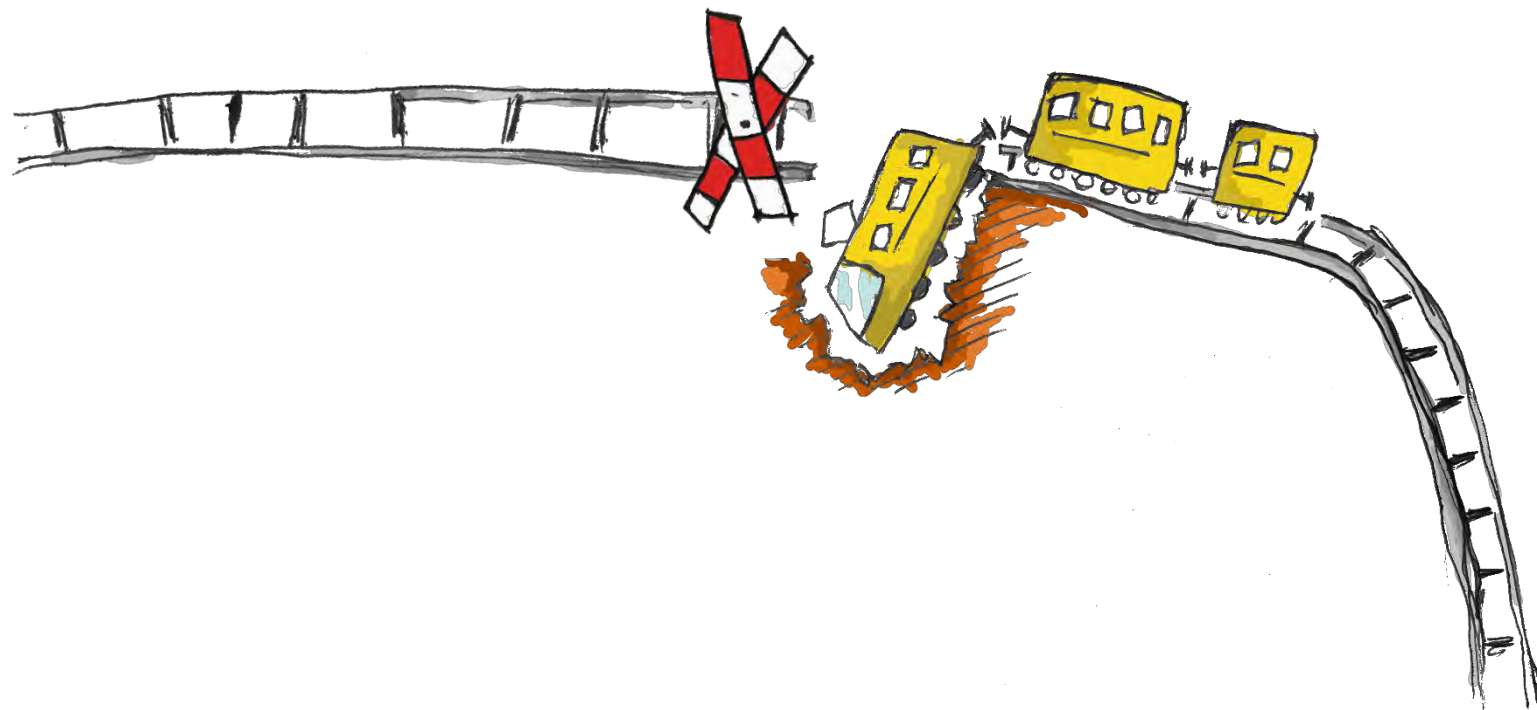
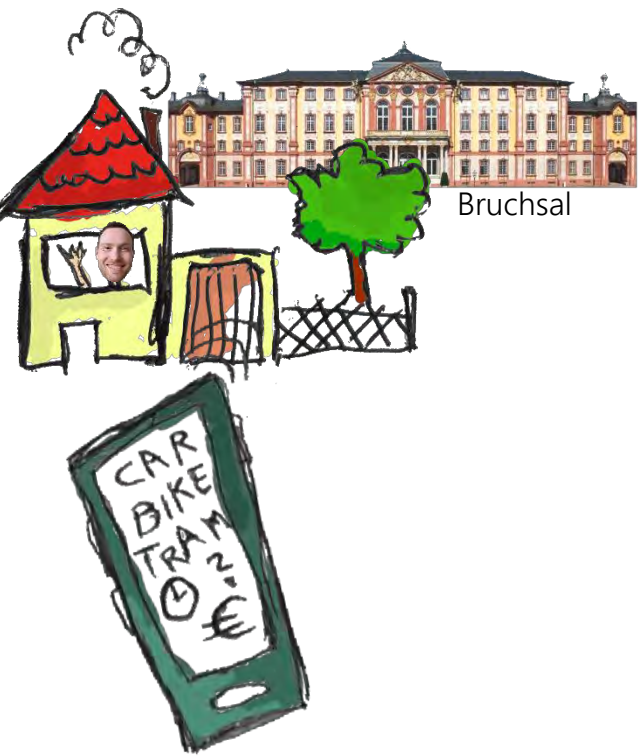
Karlsruhe

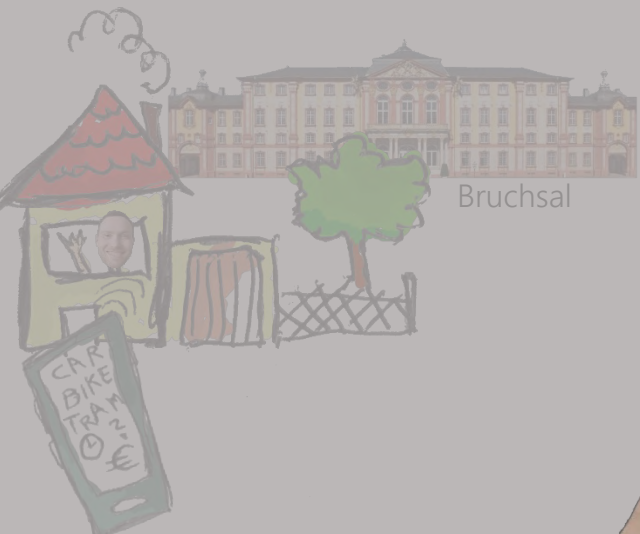


Bruchsal



Karlsruhe





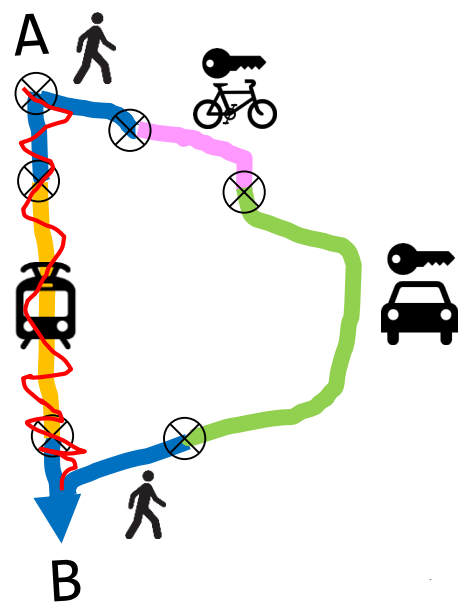
regio
move

Information



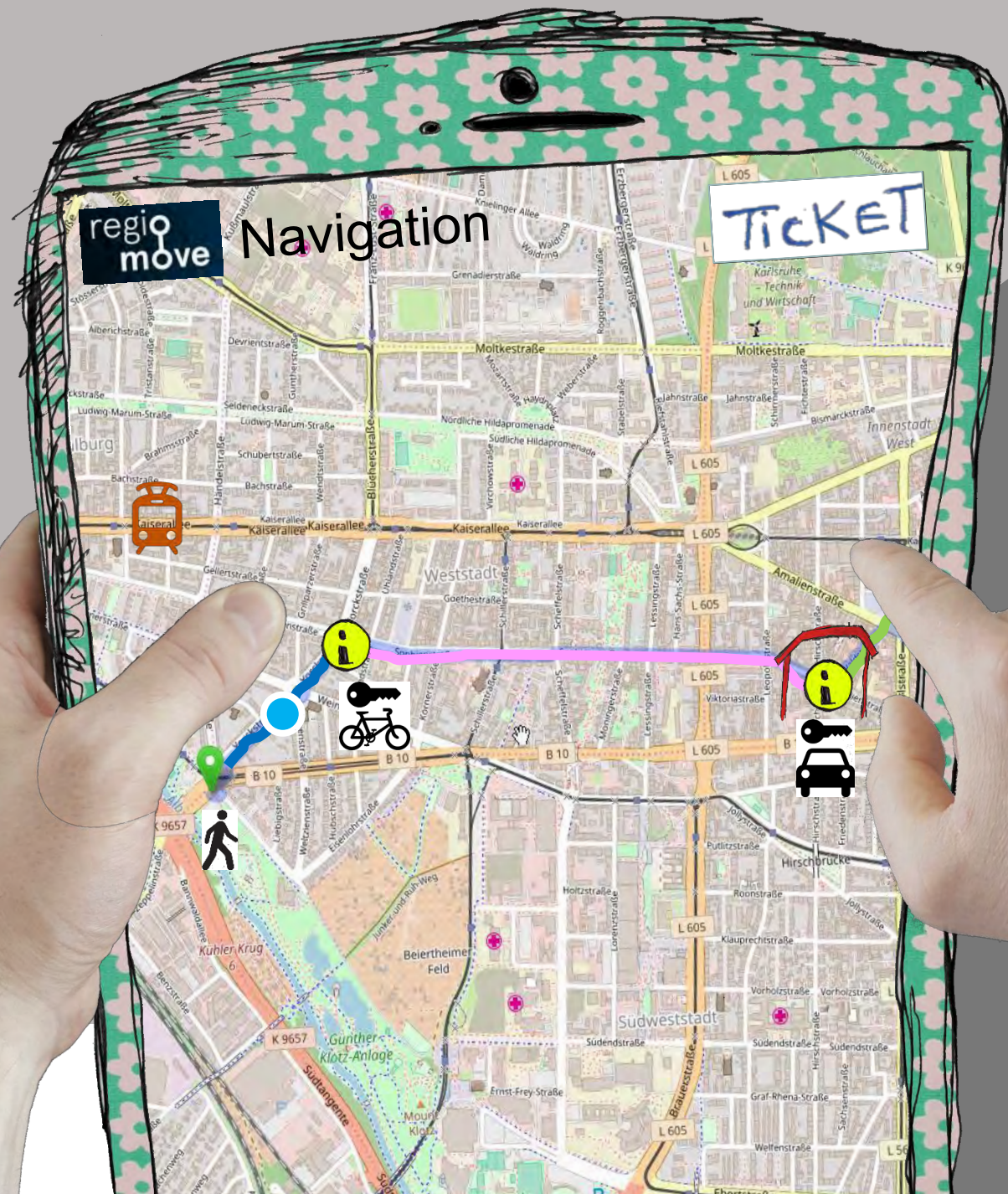
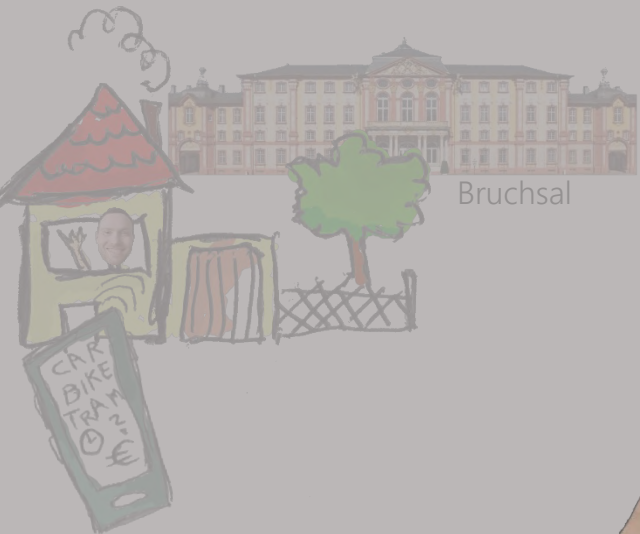
BAHNAUSFALL!

PUSH → ALTERNATIVE

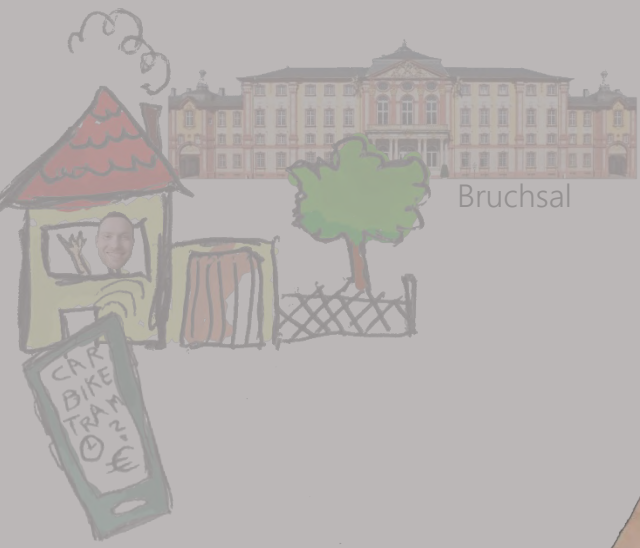


BUCHEN

SINGLE SIGN ON
PRÄFERENZEN
ONE KLICK
ECHTZEIT
INTERMODAL
PUSH



SINGLE SIGN ON
PRÄFERENZEN
ONE KLICK
ECHTZEIT
INTERMODAL
PUSH



regio
move

Codes & Tickets



Code: **6789**



OK

SINGLE SIGN ON

PRÄFERENZEN

ONE KLICK

ECHTZEIT

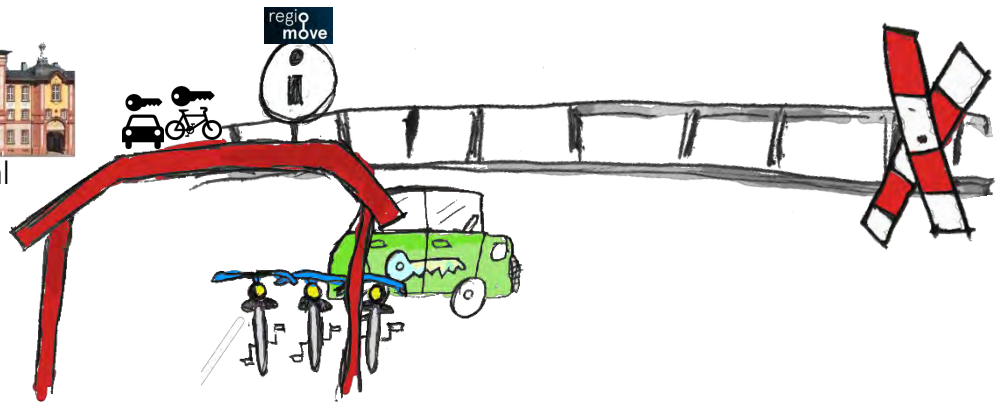
INTERMODAL

PUSH

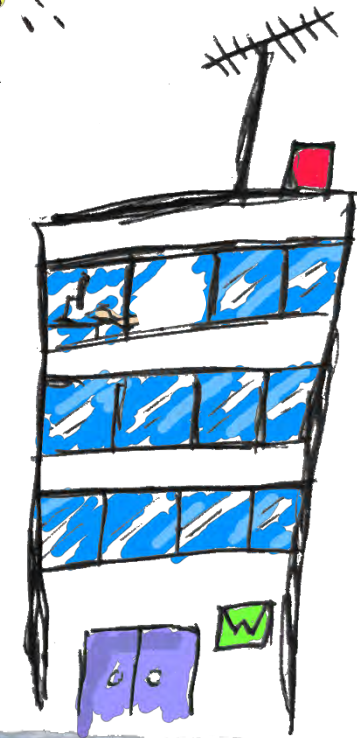
AUS EINER HAND



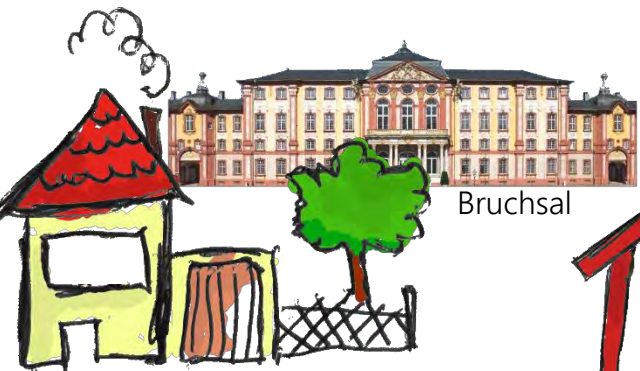
Bruchsal



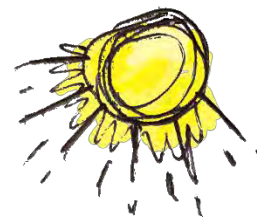
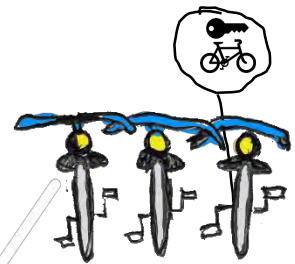
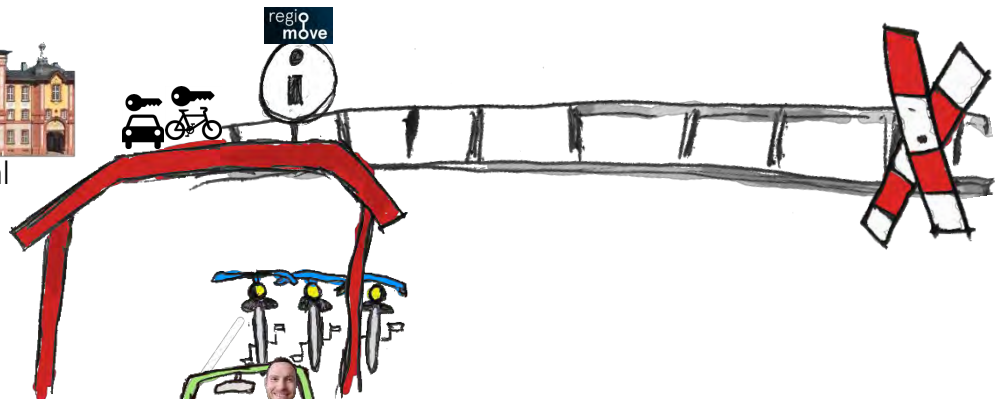
regio
move



Karlsruhe

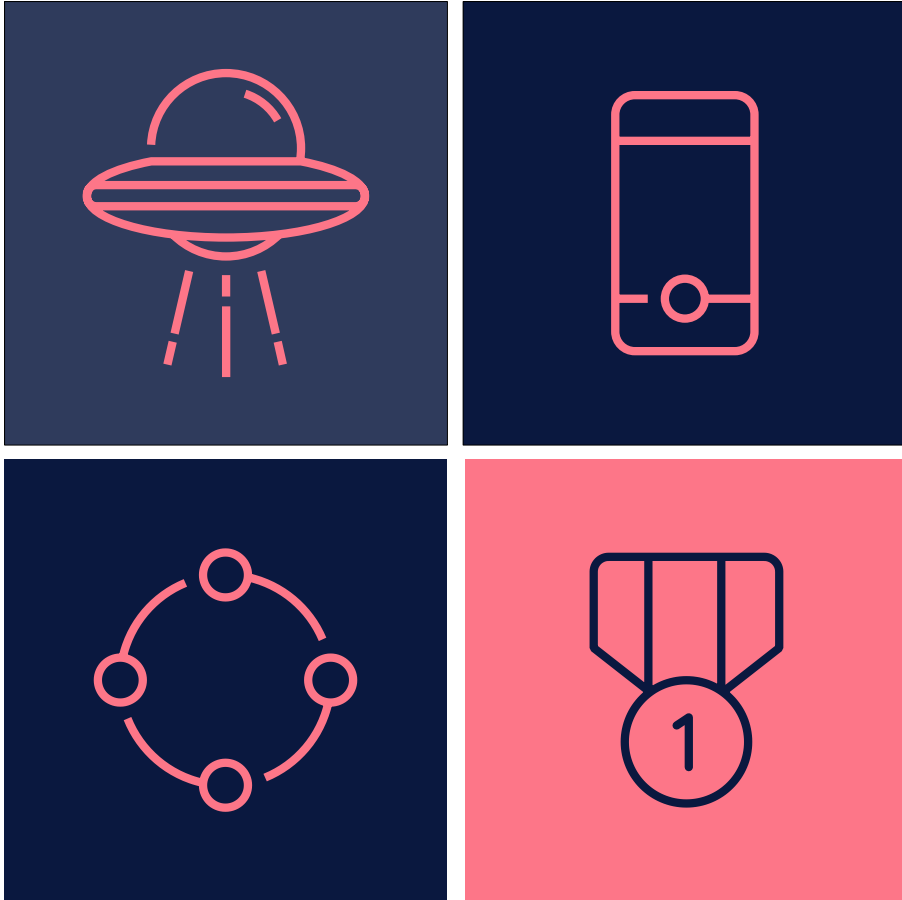


Bruchsal



Karlsruhe

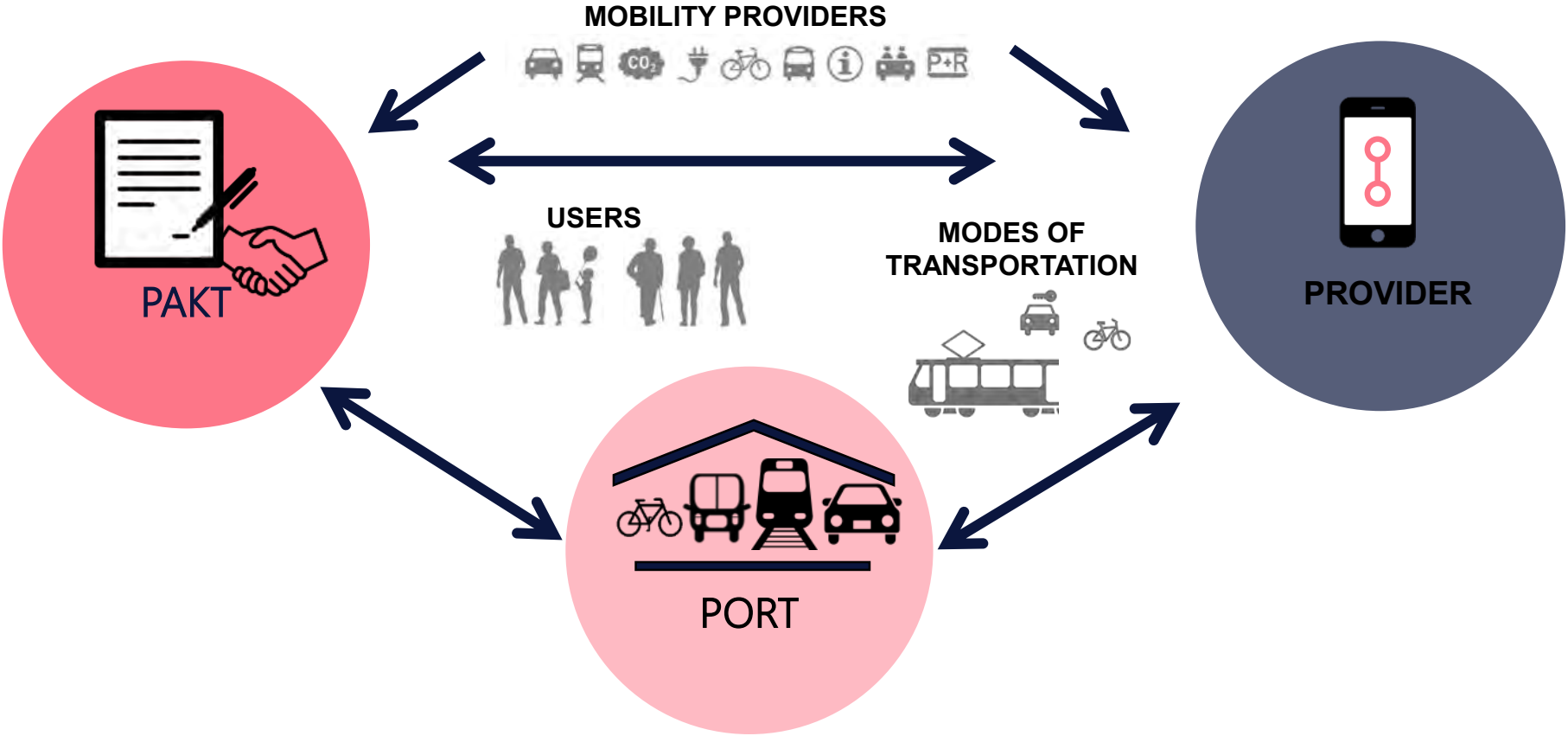
Project Goals of regiomove



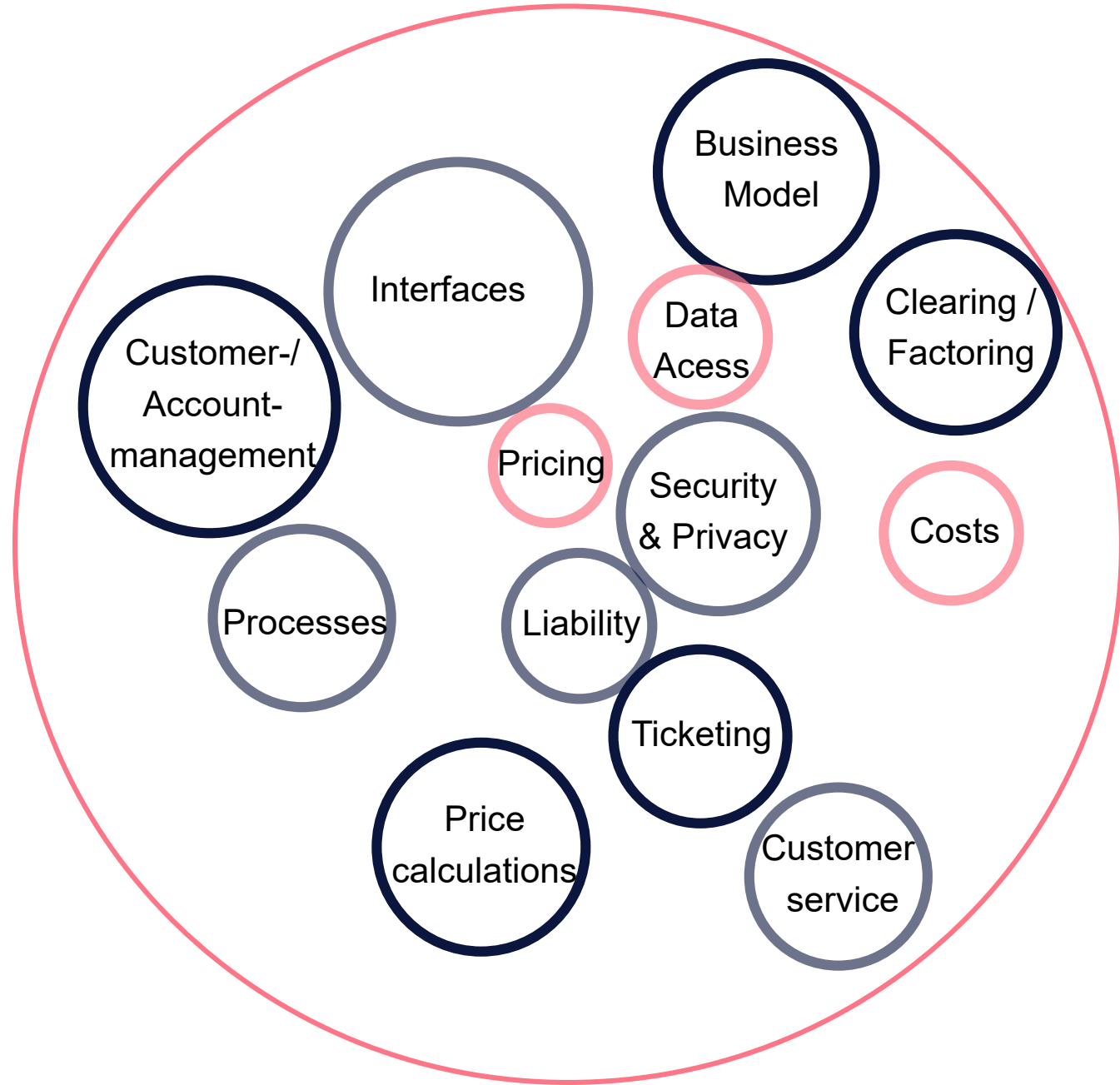
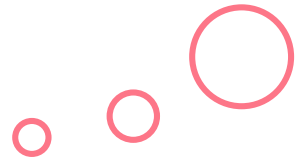
Source: KVV

- Intermodality
- One App for All
- One Face to the Customer

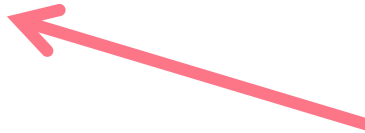
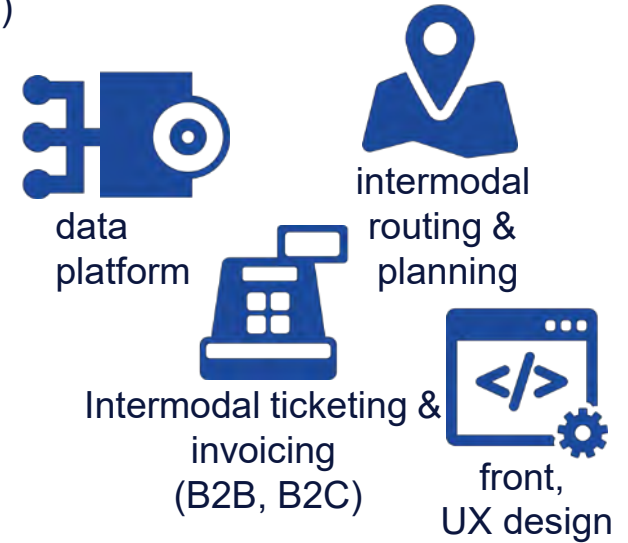
The Structure of the Project



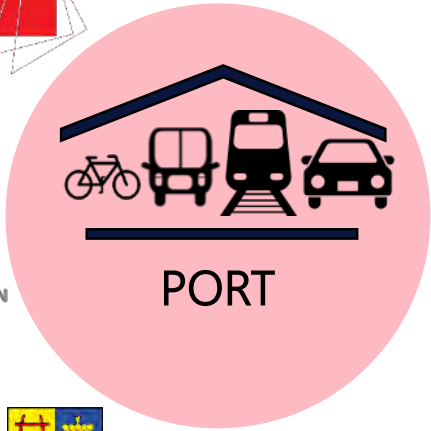
Pakt



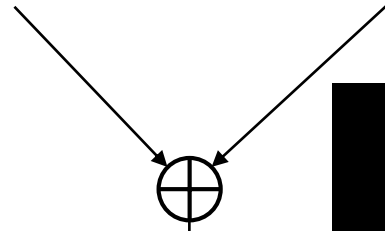
Provider



Port



Mobility Quality Mobility Demand



Ports in the Region

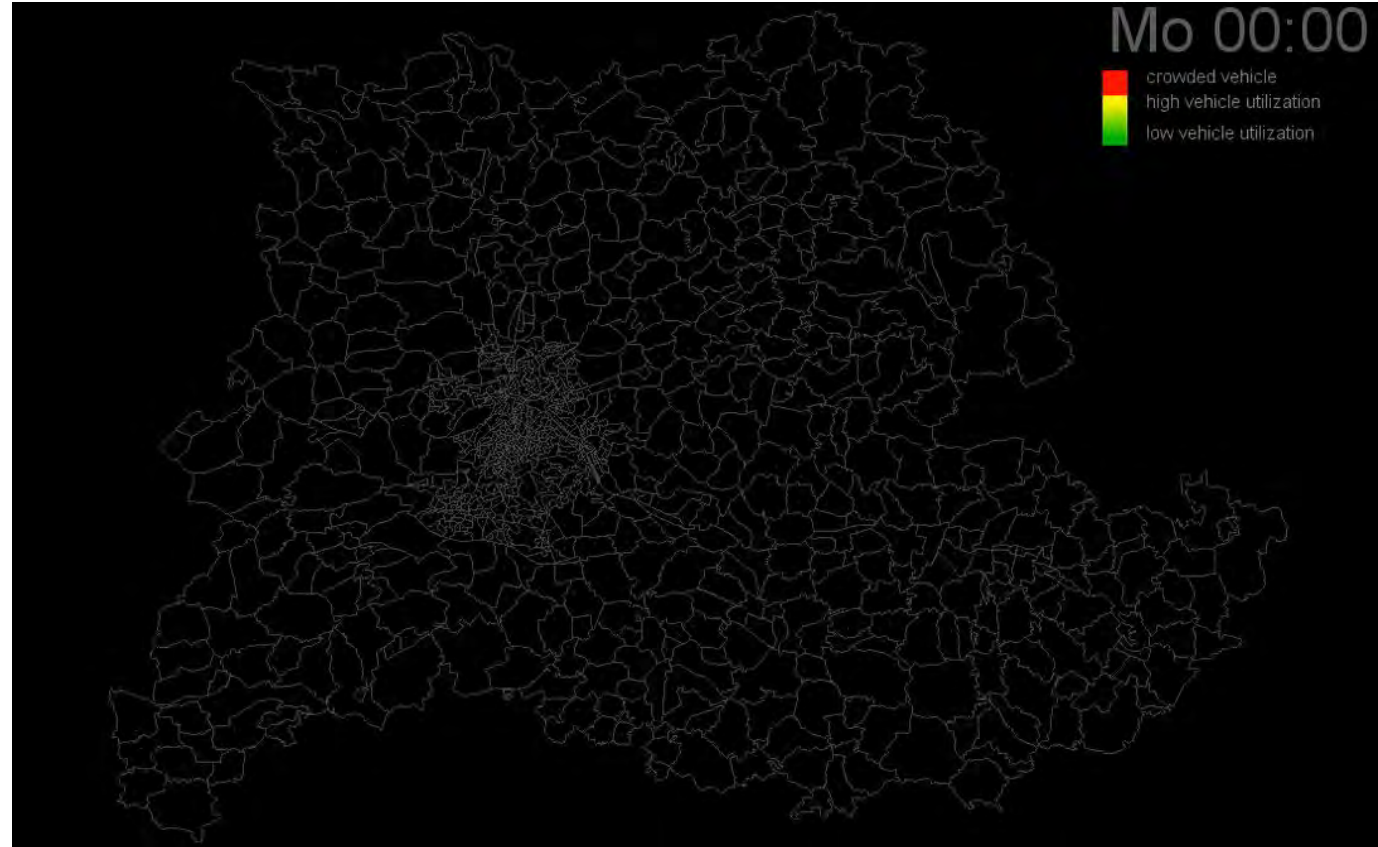


Location
Specification
Expected Effects

Multi-Agent-Travel-Demand-Model

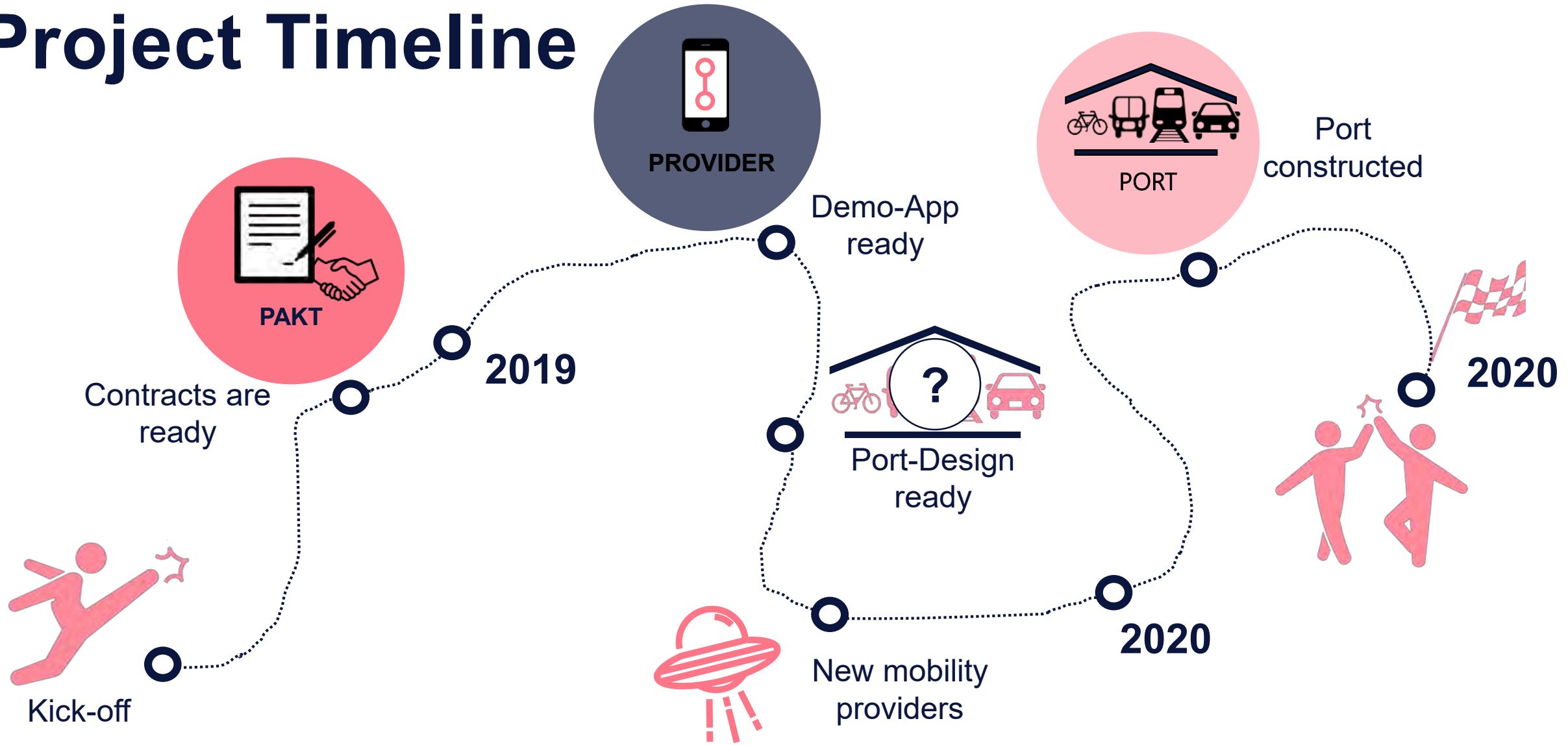


Here: PT vehicles with passenger



Trips of people (mode, purpose, vehicle, charging etc.)

Project Timeline



regio move

Alles außer beamen



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Dr.-Ing. Martin Kagerbauer

martin.kagerbauer@kit.edu

+49 721 608-47734

INSTITUT FÜR VERKEHRSWESEN, FAKULTÄT FÜR BAUINGENIEUR-, GEO- UND UMWELTWISSENSCHAFTEN

