

# „We don't need a car right now“

Studying transport preferences and attitudes among young adults in Budapest, Copenhagen and Karlsruhe

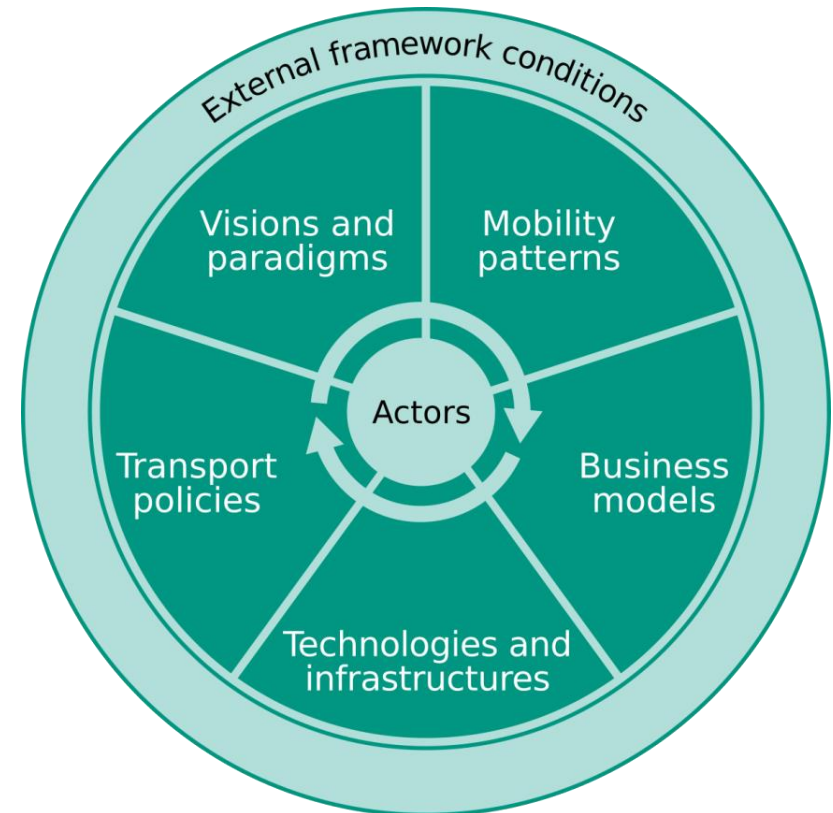
Maike Puhe, Jens Schippl

INSTITUTE FOR TECHNOLOGY ASSESSMENT AND SYSTEMS ANALYSIS (ITAS)



# Transport as a socio-technical system

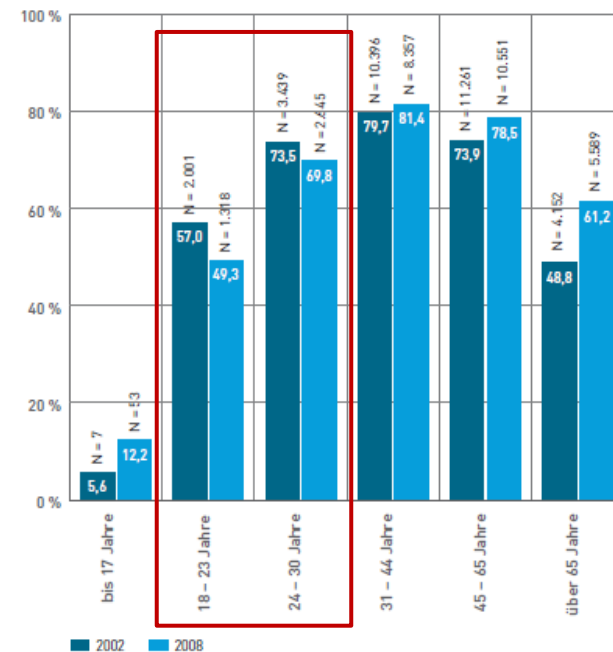
- Stable configuration of elements for decades
  - Deep-structural rules guiding behaviour and perceptions of actors
  - Incremental changes, following path-dependencies of mobility regime
  
- External framework conditions caused transformation pressure
  - Changes do not happen in isolation, instead co-evolutionary dynamics
  - Alternatives are developed and proposed by pioneers



# Mobility patterns of young urban generation

- Young urban generation is increasingly trying out these alternatives
- Recent trends in mobility behaviour of young urban generation
  - Car ownership decreases
  - Car usage decreases
  - Multimodality increases

Car availability per age cohorts



Source: Schönduwe, Bock, Deibel (2012)

---

## What does the literature provide for explanatory approaches?

---

# Explanatory approaches for behaviour change



## Organisational re-configurations

- Investments in cycling infrastructure and public transport
- New business models (e.g. car- und bikesharing)
- Restrictions of car-based transport



## Socio-economic conditions

- Postponement of economic independence
- Postponement of life- and family planning
- Rising costs of living



## Evolution in collective values and lifestyles

- Increasing pragmatism in relation to cars
- Decreasing emotionality in relation to cars
- (Environmental awareness)



## Media usage

- Smartphone penetration rates increase continuously
- Travel times is used differently
- Booking and information is easy

# Research questions

- Which co-evolutionary dynamics are at play in Budapest, Copenhagen, and Karlsruhe?
  - How do young urbanists perceive cycling, the meaning of the car and vehicle sharing against the background of different transport realities?
- Are behaviour changes structurally caused (e.g. due to socio-economic conditions of this generation) and thus limited to a certain phase of life?

or
- Is there any evidence that changes point to institutional changes and are thus transferrable to future phases of life and/ or other generations?

---

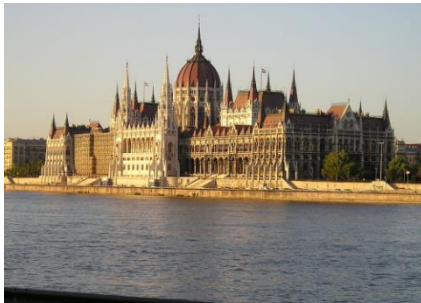
## How are the transport realities in Budapest, Copenhagen and Karlsruhe and how do young urbanists perceive these?

---

# Method

## ■ Interview Meetings in:

### Budapest



### Copenhagen



### Karlsruhe



- Small survey, group discussions of about 10 persons
- Approx. 30 participants per city, between 20-30 years old
- Provision of information material; performance in national language
- Karlsruhe & Copenhagen exclusively higher education, mostly students with low income, childless
- Budapest broader composition of participants
- For the analysis we focus on “cycling”, “meaning of the car”, “vehicle sharing”





# Budapest I

## Socio-economic conditions Hungary:

- Hungary has been hit hardly by the economic crisis - difficult labour market conditions for young people
- Since 2006 rentals for housing in Hungary increased three to four times as much as European average
- Prices for public transport increased, today they are twice as high as in 2004

---

## Transport situation Budapest:

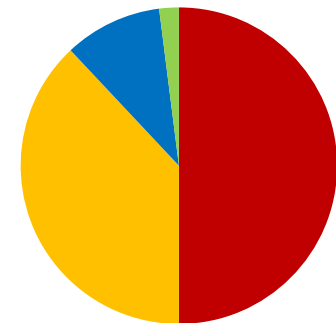
Structural problems  
(congestion, parking problems)

+

Investments of the EU  
(cycling, traffic calming)

Modal Split 2010

<b>Car</b>	<b>50%</b>
<b>PT</b>	<b>38%</b>
<b>Walking</b>	<b>10%</b>
<b>Cycling</b>	<b>2%</b>





# Budapest II

## Cycling



- Europe's biggest Critical Mass rides (up to 80.000 riders)
- Ombudsman for bicycle affairs
- Vast majority of cyclists is young, green, cosmopolitan



## Meaning of the car



- Transport strategy: improve infrastructure for transit traffic
- Not too much attention is paid to sustainability objectives



## Vehicle sharing



- In 2011 no vehicle sharing system implemented
- Since 2014 Budapest has a bike sharing system

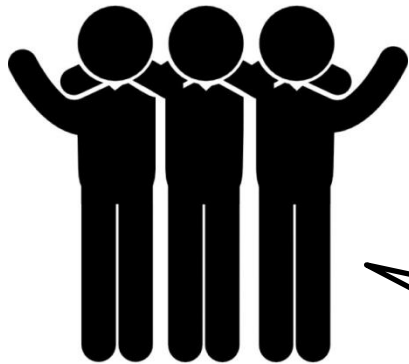


# Budapest III – Interview Meetings

## Meaning of the car

*“if you build your career (...) and fortunately, your salary also increases, then, obviously, you want to take this opportunity [of buying a car]. I will be a real car driver”*

## Lack of appropriate alternatives



*“The quality of the public transport vehicles is not acceptable, they are totally broken down”.*

## Little confidence in sharing

*“I can hardly imagine that car-sharing functions well”*

## Cycling as a countermovement

*“Bicycle is much better, I have my own experiences. (...) Of course, it is stressful as well. I accept that not everybody is brave enough to do so.”*



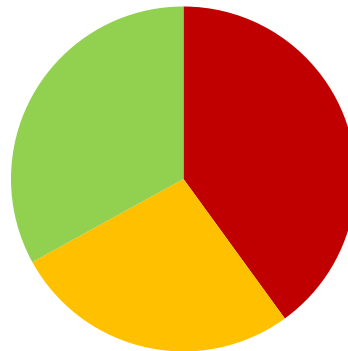
# Copenhagen I

## Socio-economic conditions Denmark:

- Increasing ratio of students per capita
  - Starting career not particularly difficult
  - Since 2006 rentals for housing in Denmark increased slightly more than European average
  - Price for purchasing private vehicles low compared to European average
- 

## Modal Split 2010

<b>Car</b>	<b>40%</b>
<b>PT</b>	<b>27%</b>
<b>Cycling</b>	<b>33%</b>
<b>Walking</b>	<b>n.a.</b>





# Copenhagen II

## Cycling



- Political vision: Copenhagen as a city of cyclists
- Long tradition of cycling policy, defining the culture of the city
- Cycling is strategically communicated as desirable



## Meaning of the car



- Political vision is to reduce car based transport to less than 1/3
- No significant resistance from Danish car owner organisation
- Car ownership is increasing, especially in families



## Vehicle sharing



- First large-scale bike sharing scheme, which came little by little to an end in 2012
- New, scheme since 2014
- City is willing to encourage car-sharing schemes



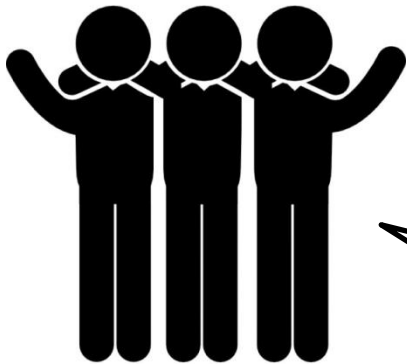
# Copenhagen III – Interview Meetings

## Mobility should be quick and cheap

*“I mean, what's the point in reducing CO<sub>2</sub>, if it takes you three hours to get home from work.”*

## Cycling as a popular alternative

*“I guess one of the major advantages of taking the bike is that it will bring you from A to B faster than any other mode of transport”*



## Car is not desirable in current life situation

*“We don't need a car right now, but I'll bet you we'll have one in five years, because it's so nice, practical and convenient.”*

## Restrictive transport policy as an opportunity

*“if there were fewer cars and fewer parking spaces so all this space could be used for something else, right, that would give the city a tremendous dynamic”*

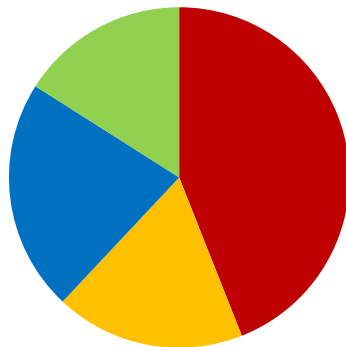


# Karlsruhe II

## Socio-economic conditions Germany:

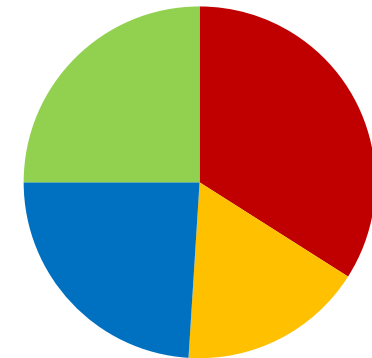
- Increasing ratio of students per capita
- Positive economic situation, regarding employment opportunities and GDP
- Rentals for housing in Germany slightly below European average
- Price for purchasing private vehicles corresponds to European average, prices for fuels and lubricants slightly below EU average

## Modal Split Karlsruhe:



2002

<u>2002</u>		<u>2012</u>
44%	<b>Car</b>	34%
18%	<b>PT</b>	17%
22%	<b>Walking</b>	24%
16%	<b>Cycling</b>	25%



2012



# Karlsruhe II

## Cycling



- Political vision is to increase cycling
- 2011: Winner of the award “cycling friendly city” of the federal state Baden-Württemberg – goal is national award
- Bureaucratic language for communicating cycling ambitions



## Meaning of the car



- Traffic development plan does not mention need to promote car transport for inner city transport
- Car ownership decreases since 2006



## Vehicle sharing



- “Car sharing capital” – 4% of inhabitants are registered
- City is willing to encourage car-sharing schemes
- Bike-sharing scheme available





# Karlsruhe III – Interview Meetings

## Positive connotations in regard to alternative modes

*“Perfect. I can’t imagine it any better.” [The public transport system]*

*“(…) But it would not occur to me to drive into the city center by car. This is all so easy to do by public transport and bicycle”*



## Different phases of life – different mobility needs

*“If you have children, then travelling is a problem. I would consider myself to rather take the car, because it is...I mean you wouldn’t have the stress with changing trains, getting off, especially with a pushchair and so on.”*

## Sharing concepts well known

*„I think it [car-sharing] is attractive because you can rent different types of cars. Well, I know people they use that, and they say [...], that you are relatively flexible.“*

# Summary interview meetings

- Majority of participants does not use cars as daily transport means
- Assessment of this situation depends on regional backgrounds:
  - Karlsruhe und Copenhagen:
    - Evaluate alternatives as equivalent (or even better) for their current phase of life
    - Owning a car is not necessarily seen as valuable, but getting children is connected to car based transport
    - Cycling is normal/ daily means of transport
  - Budapest:
    - Use of public transport due to lack of alternatives
    - Owning a car is (distant) dream of the future
    - Cycling culture as counterrevolutionary expression
- Means of transport should be fast, flexible and cheap to fit their needs
- Environmental aspects does not affect transport decisions
- Assessment of sharing depends on degree of experiences with it

---

**Are behaviour changes structurally caused (e.g. due to socio-economic conditions of this generation) and thus limited to a certain phase of life?**

**or**

**Is there any evidence that changes point to institutional changes and are thus transferrable to future phases of life and/ or other generations?**

---

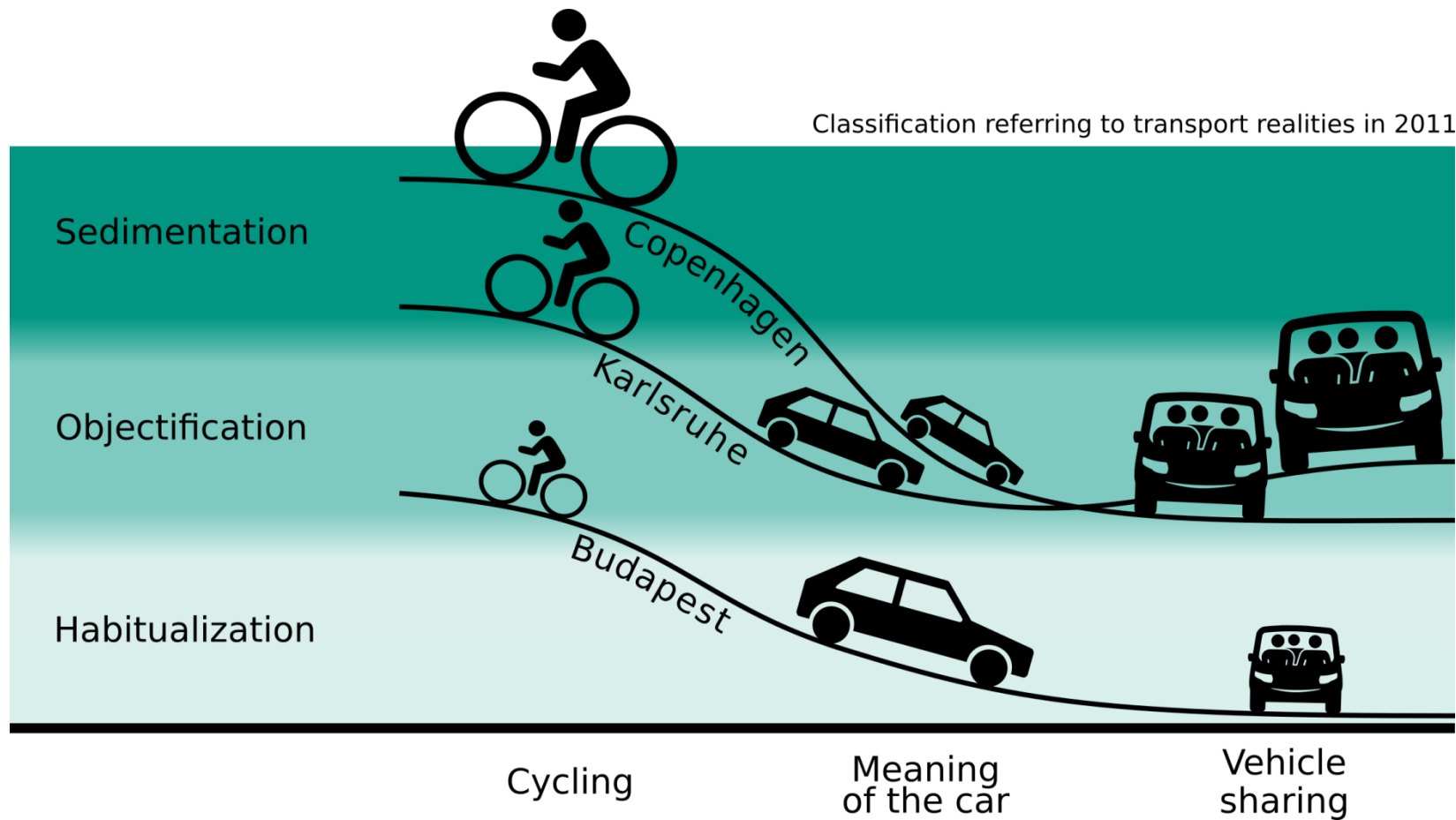
# Drawing on institutional theory

Institutions = shared rules and understandings

## Three stages of institutionalization (Tolbert and Zucker, 1999) :

1. Habitualization: Uncoordinated activities, small number of actors. **Very unstable configuration**, often disappearing with reassignment of first actors
2. Objectification: Development of some degree of social consensus among decision-makers, increasing adoption of (heterogeneous) actors.  
**Movement towards more stability**
3. Sedimentation: Survival of structures among generations of organizational members and adopters, structure is taken for granted and thus **relatively stable**

Institutions with short history and limited acceptance among a set of actors are more vulnerable to challenge and less apt to influence action (Barley and Tolbert, 1997)



# Conclusion

- There are enormous regional particularities regarding available transport options, infrastructure supply, actors, language used and central values
- For analysing transition processes, interplay between different elements of the transport system is crucial
- Degree of institutionalization could help in understanding stability as they influence perceptions and behaviours of actors
  - Established structures (e.g. cycling in Copenhagen) tend to survive across generations as they are taken for granted
  - Weak degree of institutionalization (e.g. vehicle sharing in Budapest) is more vulnerable to disappear
- Understanding rules that guide behaviours might indicate to pathways to overcome unsustainable system structures and practices