



## T4<2° – Transport for under two degrees

The global foresight project on transforming mobility by mid-century

### Context Mapping Questionnaire

#### Information interviewee

<b>Name</b>		
<b>Institution</b>		
<b>Field of expertise</b>		
<b>Date</b>		
<b>Location</b>		
<b>Interviewer</b>		
<b>Consent to audio recording</b>	Yes	No
<b>Remarks</b>		

## General

*Before we dive into the specific questions, I would like to talk briefly about your general opinion on the subject.*

The project revolves around the global transformation of the transport sector by the mid of this century. What comes to your mind first when hearing about this topic?

How would you describe the global transformation of the transport sector in your own words?

In your opinion, what are the most important actions needed for achieving this transformation?

## International Relations

We are all familiar with the international agreements (notably the Paris Treaty) concerning climate change policy. Let's talk specifically about the role of international relations in the implementation of the global transformation of the transport sector:

What role do international efforts have compared to national, regional and local activities for a successful transformation of the transport sector?

- *Differences in scope of goals and implementation*

Which actors and institutions are relevant? (Global and national/local) Which of them support the global transformation of the transport sector and which ones hinder this transformation?

What are the barriers to a successful transformation of the transport sector in the international context?

How could the global transformation of the transport sector affect international relations and geopolitics in a positive and/or negative way?

What is the impact of international trade on global mobility? What does this mean for transforming mobility?

What could lead to a reduction in international trade flows? (e.g. changes in international relations, policy action etc.)

## Policy action

Let's talk about policy steering instruments and measures:

Internationally and in your country, which policy instruments or programs are most important for transforming mobility?

- *Regulatory, economically, incentive structure (social, economic)*
- *Instrument Ranking*

Which efforts/projects already exist in this context? Which do you think are the most promising and which ones are less helpful? Why?

To what extent does public opinion, moods, emotions and feelings influence politics aiming at the transformation of the transport sector?

How can public acceptance for regulatory measures in the transport sector be achieved?

- *Which communication instruments and channels are appropriate for the diffusion of the idea of a mobility transformation?*
- *Labels, rankings, campaigns, ...*

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How can political courage be generated to support change/transformation?

Compared to other actions (such as technology development), how important is it to enable an integrated approach for transforming mobility? How could it be achieved?

- *Cross-sectoral and all modes of transport*
- *All political levels (international, national, regional, local)*

## Infrastructures & Spatial Planning

Mobility and transport are heavily influenced by infrastructure and spatial planning. These structures are subject to political decisions and processes. Let's take a closer look at these aspects:

What changes to existing infrastructures are necessary for a successful mobility transformation?

- *Which new infrastructures and spatial orders are necessary?*
- *What consequences do you expect from these changes in infrastructures?*

To what extent can new modes of transport or new mobility concepts be helpful in bringing about a change in infrastructure planning?

- *Mobility as a Service (MaaS), shared mobility, etc.*
- *How likely is it that very disruptive models will actually be implemented?*

How can a sustainable infrastructure be financed?

What does an adequate city model (guiding principle) look like?

- *How can the principles of the New Urban Agenda best be enforced?*
- *How can the experiences from the Charter of Athens best be used?*

## Energy & Raw Materials

The mobility transformation is closely linked to the energy transition. Let's turn to this context.

What are the greatest challenges to combine the energy transition with the mobility transformation?

What synergies exist between energy transition and mobility transformation?

What are the greatest innovation potentials to change how energy is used and supplied in the transport sector?

How does the transformation of the transport sector influence international energy flows?

- *What are the consequences?*

Could the new raw materials necessary for the mobility transformation impede the transformation? Which ones and why?

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What role should biofuels play and how can their environmental impacts be limited to an acceptable level?

- *How can they be addressed?*

## Finance & Economics

Economic questions and financing problems are fundamental to many areas of the global transformation of the transport sector.

How can countries break the link between economic growth and increasing transport volume?

How could changes in the global political and economic power balances affect the economic viability of a mobility transformation?

How does access to financial capital influence the emergence and development of mobility concepts? How does it affect public and private actors?

- *Access international capital market*

Which new business models are helpful for the transformation of the transport sector and which ones are not?

Which aspects of structural change related to the transformation of the transport sector are critical?

## Technologies

The discourses on changes in mobility and transport are currently very technology-oriented. We want to turn our attention to the technological side of the mobility transformation in a specific way.

Which vehicle technologies and drive technologies are most important for changes in mobility and transport?

What opportunities and risks do you see?

- *Concerning the different modes of transport*
- *Consequences for fuel supply and infrastructure*
- *How can the risks be dealt with?*



## Digital Transformation

No technological development has such far-reaching effects as digitalisation. So, we have to ask about the role in the process of transformation.

How can digitalisation support the transformation of mobility and transport?

- *Specific examples*
- *Explain cause-and-effect relationships*

What effects do you expect from self-driving cars?

Under which circumstances can and will new mobility services substitute privately owned cars?

How important is data safety and security in the transport sector?

What might be undesired/unintended effects related to digitalisation?

## Acceptance & Equity

Transformations can only succeed if they are socially accepted. Changes mean above all also changes in people's expectations and behaviour (mobility behaviour, consumer habits). In conclusion we want to speak about exactly this.

Which areas could be positively influenced by a socially acceptable mobility transformation?

- *Health, quality of life, liveable cities, equity...*

How can a socially just transformation be ensured?

How can public acceptance be established for such a transformation?

How do you assess the chances for behavioural change?

Which trends influence (facilitate/block) the transformation?

What influence do gender and racial issues have on the topic?

## Conclusion

From your perspective, who are the critical stakeholders and what are the drivers, the most important discourses and the most challenging barriers to successfully transform mobility?

- *Suggestions for other interviewees in the respective sector*

If you would be responsible for the project, whom would you ask and which region or development would you particularly be interested in?

What would you do first if you could decide on the future of mobility? (= playing God)

Do you have any remarks on the questions or the intention of the project?

**Thank you very much for taking time to answer our questions.**