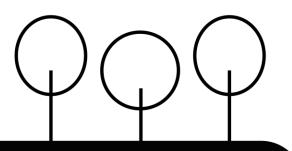
A NEW UNDERSTANDING OF BEING PHYSICALLY AND VIRTUALLY ON THE MOVE

> ECLAS CONFERENCE 2022 SCALES OF CHANGE 12.09.2022 LJUBLJANA, SLOVENIA



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1 WHAT IS en route?

 en route = Transdisciplinary research project based at the Osnabrück – University of Applied Sciences

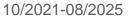
• Key question:

How can students be on the move in physical and virtual (learning) spaces and thus make educational landscapes more sustainable and resilient?

- Involved research disciplines and researchers
 - Landscape Architecture
 - Urban Planning
 - Geography
 - Media Sciences
 - Business Administrations and Marketing Kai-Michael Griese
 - Energy Technology
- Research Period:

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HOCHSCHULE OSNABRÜCK

UNIVERSITY OF APPLIED SCIENCES

Fig. 1: Osnabrück in Germany (Source: postleitzahl.org)



Focus today

- What are the functions of the space en route on the daily commute to university?
- What needs does being en route satisfy?
- How can we make use of the space en route?

Research steps

1. Exploring physical and digital mobility patterns at HSOS and deriving an EN ROUTE typology 2. Exploration of the educational landscape of HSOS: pathway system, nodes and the university locations as hubs 3. Testing and evaluation of impulses within a living lab approach 4. Implementation of research results in curricula



Research design

Past steps

- Literature review
- 1. Qualitative investigation (n = 14)
 - Mobility diaries (1 week, tracking all university related virtual and physical mobility)
 - In-depth interviews (approx. 70 min.)
 - Qualitative content analysis (Mayring 2015)

Next steps

- 2. Qualitative investigation (n \approx 15) \rightarrow fill the blank spaces
- (Quantitative) Online survey \rightarrow Quantify our typologies



2 WHAT DID WE EXPECT?

Think about:

- What functions does the space en route have for you?
- Which factors have an influence on the perception of your daily commute?

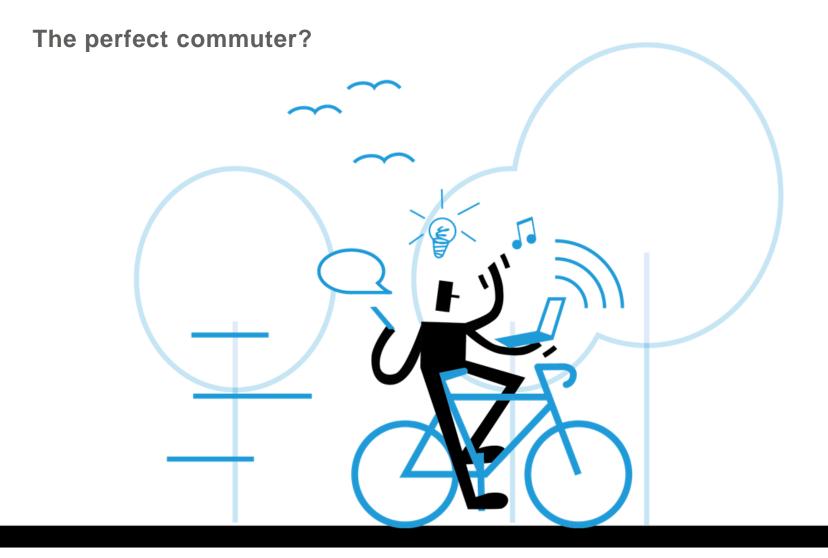


What we expected to have a (positive) influence on the functionality and perception of the space en route:

(Active) Means of transport (e.g. Lyons & Chatterjee 2008; Handy 2019) Possibilities to use the time en route (e.g. Pawlak et al. 2021; Tully & Alfaraz 2019) Possibility to use ICT (Information and Communications Technologies) (e.g. Malokin et al. 2021).

Distances & travel times (e.g. Banister 2008) Perception of built environment (e.g. Chan et al. 2021)







3 WHAT DID WE FIND?

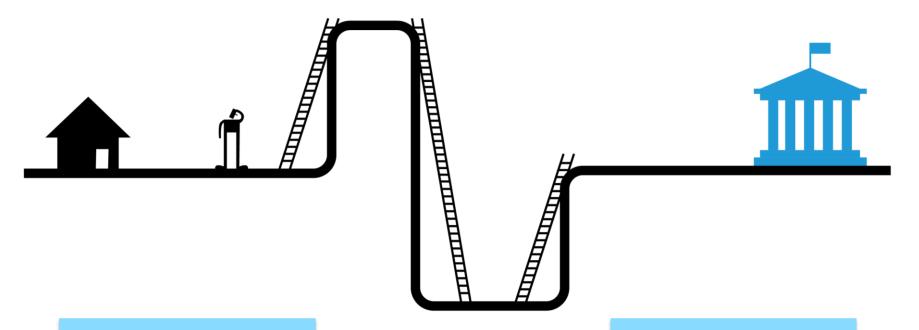


IT IS NOT AS SIMPLE AS THAT.

- The perception of the time and space en route is not necessarily determined by the mode of transport, the amount of travel time or a highly aesthetic built environment.
- Students have different strategies to make use of the time and space en route that are not necessarily bound to productive activities.
- → Spatial typology: 5 different conceptions of the time & space en route



1. EN ROUTE as an **EXHAUSTING OBSTACLE**

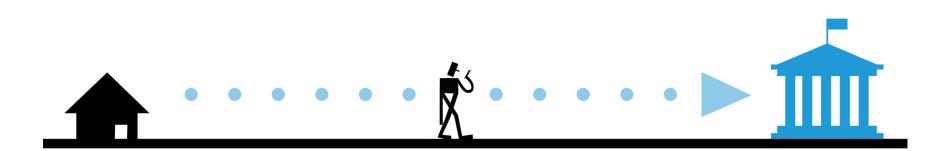


... then I don't have to leave the house [just

like to be at home, but on the other hand, have to evaluate: At home I get distracted much easier, but most of the time I'm still home anyway. (Sophie, 21) It [the space en route] partly keeps me from being at campus more often, or it just ties me to the campus more, while others might go home in the meantime. (Katharina, 20) a waste of time. I try to use it as ective as I can, but I can't read any oks or text messages nor send atsapp, etc while driving. And of course teals energy, which is then not ailable for anything else. (Maria, 52)



2. EN ROUTE as a **MONOFUNCTIONAL TUNNEL**

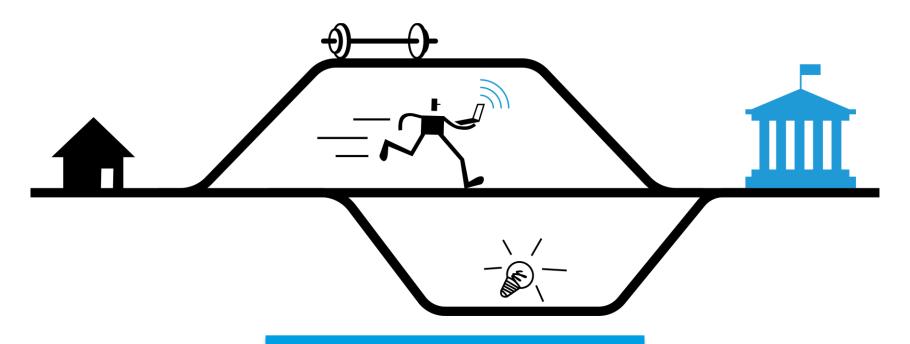


When I walk, I have my music in my ears and I don't have to think of anything, just walk. (Leon, 27) [...] then I've already had my 4, 5 hours on the move, without being anywhere I wanted to be. Sometimes it's quite exhausting, but otherwise I've really got used to it. So that's nothing, that bothers me so much. (Lukas, 22)

Actually, I don't think much about me being on the move. So I only think that I want to get to my destination as quickly as possible, i.e. to the university or back. (Alexander, 23)



3. EN ROUTE as a **SPARE ROOM**

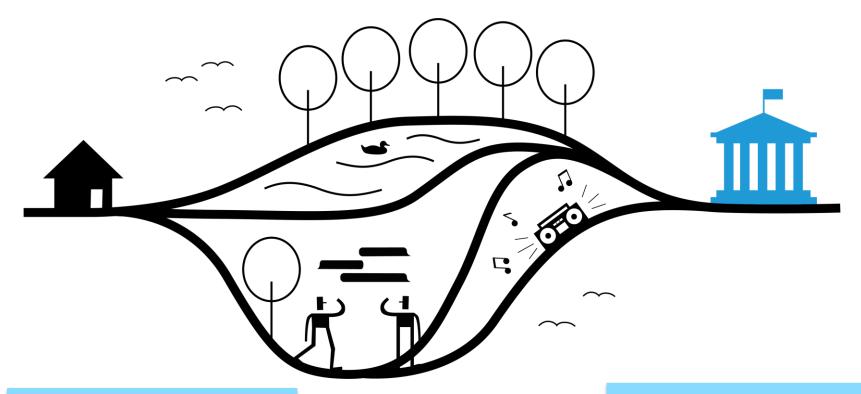


The lecturer really brought pumps into class. You could look at them, simply touch them. This connection to many things would otherwise be missing. When I ride the bus to get from A to B, I can be "productive" at the same time and do things that I then don't have to do in class or during the break, when I could also chat with people. (Paul, 26)

am actually super satisfied: I can combine my sport, my exercise, with my way to university. That's awesome. These ten, eleven kilometres are simply a way for me to wake up, to be fit when I arrive in the morning. Even if it's -3 degrees and really disgusting outside, it's somehow nice. (Lea, 24)



4. EN ROUTE as a **PUBLIC PARK**

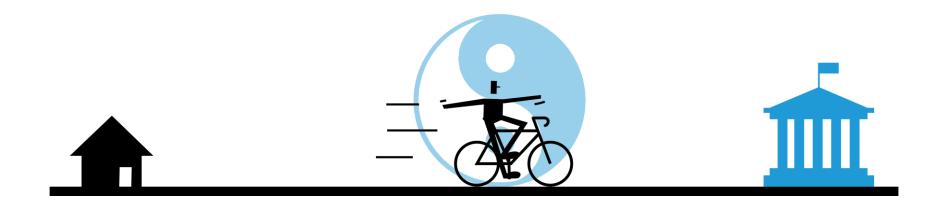


I always find it exciting to look at the landscape while riding the bus because there is this contr between rural and urban along my way to cam (Tim, 25)

I sing a lot. I always feel sorry for the people who ride their bikes behind me, who have to listen to it. But I just love to sing, I feel like I'm singing all the time, and I even sing on the bike. (Laura, 31) ' try to switch off a bit or listen to ething. Then I digress into my own world oughts. (Tim, 25)



5. EN ROUTE as a **MINDFUL MOVEMENT**

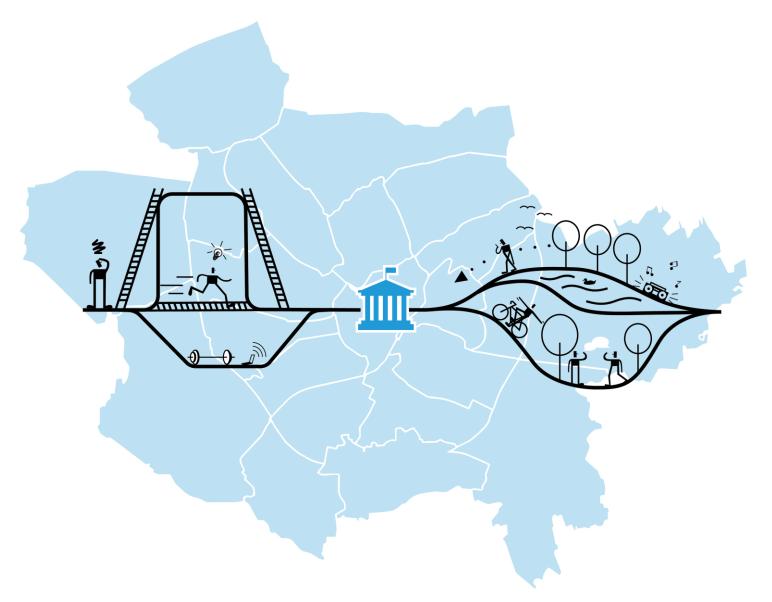


Walking to university in the morning has really become a ritual for me. I enjoy it. It's kind of fun. (Maximilian, 20)

And the whole package is good for me: on the one hand to be in motion, on the other to hear something exciting and then to have nice visual impressions. (Julia, 26)

The way to the university is just for myself: to hink, to structure myself a bit, what am I going to do now. So for me moving also has a psychological aspect. (Maximilian, 20)







4 WHAT DOES IT MEAN FOR US AND FOR LANDSCAPE ARCHITECTURE?



Theses

- → Being on the way to university can be defined as a complex experience that encloses not only characteristics of the way itself. The use of ICT and virtual mobility is often an integral part of this experience, thus cannot be exclusively located either in virtual or physical space. Rather, it becomes obvious that these spaces are mutually dependent on and condition each other, forming hybrid spaces en route.
- → Universities are embedded in both an urban and a regional context, forming a network of pathways. They should therefore be seen as hubs in a multi-faceted network of pathways. If universities want to make use of the potentials of the time and space en route for sustainability and resilience gains and to improve the quality of being on the move, they have to understand individual conceptions of space in this network of pathways.



How can being on the move be more than 'an obstacle to overcome'?

We are more than happy to learn about examples for...

- ...universities/organisations that engage with "their" (hybrid) pathways system.
- ...universities/organisations that engage with the perception of the commute of their members.
- ...approaches to increase the multifunctionality of the space en route.



THANK YOU FOR YOUR ATTENTION!



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