

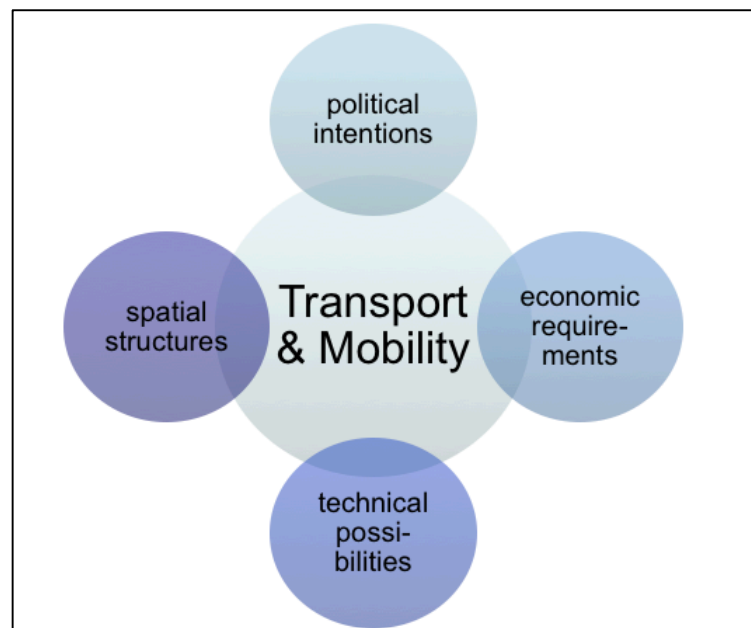
Lecture: Public Transport in Urbanized Areas (Master UGKR & SUT) 25.01.2016

Key question: Ist public transport a solution for urban mobility problems?

Structure of the presentation:

- Introduction
- Interdependences between urban space and transport
- Changing planning approaches: car oriented town planning – public transport oriented town planning
- Impact of transport technologies on urban structures and spatial development
- Innovative solutions and case studies in public transport
- Summary and discussion

Relation of Transport & Mobility
(Figure: R. Juchelka)



Elements of transportation: infrastructures, modes, users

- Spatial imprint: urban form
- Spatial interaction: urban spatial structure

Economic dimension in correlation to transport demand & spatial embedding:

public transport in the morning rush hour in the direction to city centres: overlapping of transport flows, transport direction, spatial impact

Changing of urban planning approaches related to transport & mobility:

- car oriented urban planning
- pedestrian oriented urban planning
- bicycle oriented urban planning
- public transport oriented urban planning
- integrated approach

Case studies of Innovative solutions in urban mobility:

- Increasing urban space correlated to transport technologies: example: subway/metro systems
- Changing of modal split in urban passenger transport: case study: Vienna
- CargoTram in Dresden
- Metro and Tramway in Dubai
- Renaissance of Tramways in Europa, example of Strasbourg
- Image of public transport: example: tramway in Zürich
- Pricing in public transport: free travel in Hasselt
- integrated solutions: example of „Yélo mobile“ in La Rochelle
- Ropeways in urban public transport: Portland, Koblenz, Wuppertal

Point of discussion:

If only 10 percent of all car drivers would change to public transport, the public transport system would collapse. This means, public transport has to double its capacity.

Bibliography:

Nuhn H. u. M. Hesse (2006): Verkehrsgeographie. Paderborn. Pp.183-200

Rodrigue,, J.-P. (2013): The Geography of Transport Systems. London. pp. 188-225.

Interested in our research programme and teaching activities:

visit the website of our department www.uni-due.de/wigeo

or follow us on twitter @ude-wigeo