

<b>Fachbereich:</b>	<b>Verkehrsplanung</b>
<b>Leiter/in der Seminararbeit:</b>	Kay Axhausen
<b>Betreuer/in der Seminararbeit:</b>	Raphael Fuhrer, Allister Loder
<b>Titel der Seminararbeit:</b>	<b>Flow, density and speed: Exploiting fundamental transport network properties to estimate the real areal coverage of different transport modes</b>
<b>Beschrieb:</b>	<p>Space is a scarce resource, especially in urbanised regions like Switzerland. The question becomes which transport mode consumes how much space to transport a passenger. To account for the interactions between several transport modes, different speed levels, and traffic area used by several modes of transport, this approach follows a macroscopic network idea.</p> <p>The expected work in this term paper is, first, that the student summarises relevant findings from the theoretical and empirical literature. Second, the student should try to give first empirical insights into the areal coverage of private and public transport in a Swiss agglomeration (Zürich). In this exploratory fashion, the starting point is a qualitative analysis but as time and data allow the analysis will be advanced to a quantitative analysis.</p> <p>The data for capacity, areal coverage and system outcome might be obtained from official statistics by the BfS, public transport operators, Swiss Norms, VISUM Model of the Canton Zürich, 3D macroscopic fundamental diagram Data from a VISSIM simulation run for the city centre of Zürich.</p> <p>The focus in this work is: real areal coverage of different transport modes.</p>
<b>Empfohlene Lehrveranstaltungen:</b>	Praktikum Siedlung und Verkehr; Transport Simulation (Simulation des Verkehrssystems); Simulation of Traffic Operations; Traffic Engineering
<b>Besonderes: (z. B. Gruppenarbeit?)</b>	Diese Arbeit ist verwandt mit Flow, density and speed: Exploiting fundamental transport network properties to estimate the real marginal costs of added capacity und kann entweder alleine mit diesem Fokus bearbeitet werden oder zu zweit mit beiden Schwerpunkten.