

Traffic Engineering Perspective

- Assess operations of transfer stations, buildings, public areas in terms of efficiency, comfort and safety under a variety of conditions
- Need for theory and models that reproduce or predict main flow characteristics











































Implications for modeling	
• Applicability of models determined by extent in which fundamental flow characteristics can be replicated or predicted	
Static	Dynamic
Capacity incl. influencing factors	Self-organization
Fundamental diagram	Phase-transitions, start-stop waves, turbulence
Network fundamental diagram	Capacity drop, spill-back and blockage

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Discussion

- Many models (socialforces, NOMAD) are able to describe key flow characteristics sufficiently
- Models are not able to describe walker behavior at the microscopic level
- Implications for applicability of these models?

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