



Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

# Lecture with Computer Exercises: Modelling and Simulating Social Systems with MATLAB

Project Report

**Insert Title Here**  
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Name 1 & Name 2

Zurich  
May 2008

## **Agreement for free-download**

We hereby agree to make our source code for this project freely available for download from the web pages of the SOMS chair. Furthermore, we assure that all source code is written by ourselves and is not violating any copyright restrictions.

Name 1

Name 2

## Contents

## 1 Abstract

## 2 Individual contributions

## 3 Introduction and Motivations

The city of Zurich planing to change one specific part of the sihlstrasse in a pedestrian area. The idea is to make this area more comfortable for the visitors of the city center and it should be also an upgrade for the restaurants and shops around this area.



Figure 1: right: situation plan which shows the change of the tracks. left: illustration of the pedestrian area at sihlstrasse.

The changet will have a big impact for the traffic because there will be one track less than before. Sihlstrasse (from west to east) and Uraniastrasse (from east to west) is one of the most travelled road in the city center. It is the only alternative road to the highway (Westumfarung). If they decide to built a pedestrian area in the sihlstrasse they will lose one track from west to east. We know want to analyse the impact to the traffic jam and the impact on the neighbourhood streets.

## 4 Fundamental Questions

With our simulation, we want to answered the following questions:

1. Are the streets still large enough to manage the traffic jam peaks on working days?

2. What is the impact on the neighbourhood streets?
3. Which area or signal light is the bottleneck?

## **5 Description of the Model**

## **6 Implementation**

## **7 Simulation Results and Discussion**

## **8 Summary and Outlook**

## **9 References**