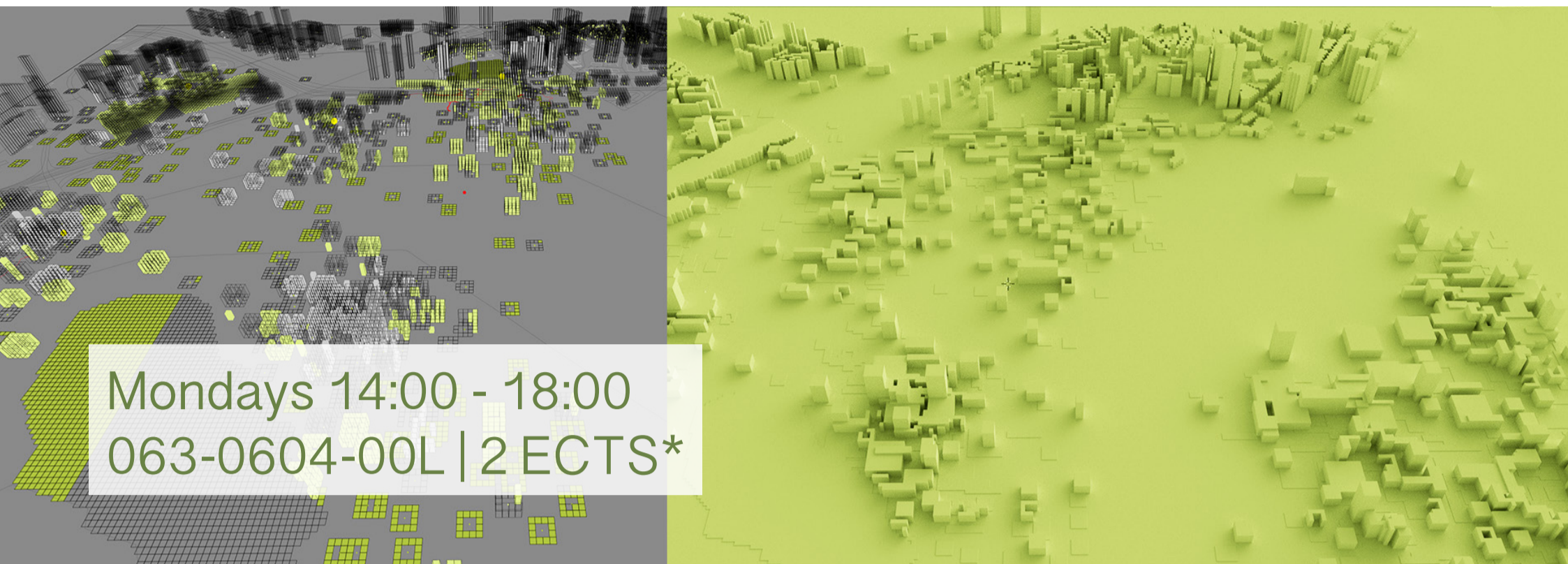# DIGITAL URBAN SIMULATION

Mondays 14:00 - 18:00
063-0604-00L | 2 ECTS*

Digital Urban Simulation

In this course students analyze architectural and urban design using current computational methods. Based on these analyses the effects of planning can be simulated and understood. An important focus of this course is the interpretation of the analysis and simulation results and the application of these corresponding methods in early planning phases.

The students learn how the design and planning of cities can be evidence based by using scientific methods. The teaching unit conveys knowledge in state-of-the-art and emerging spatial analysis and simulation methods and equip students with skills in modern software systems. The course consists of lectures, associated exercises, workshops as well as of one integral project work.

19.02.2018	Introduction to the course
26.02.2018	Simulation of urban networks and morphologies growth
05.03.2018	Space Syntax I
12.03.2018	Space Syntax II
19.03.2018	Seminar Week
26.03.2018	Urban Climate I
09.04.2018	Urban Climate II
23.04.2018	Workshop: from analysis to design proposals
30.04.2018	Guest lecture
07.05.2018	Final consultations
14.05.2018	Final presentations

Where
HIT H 31.4 (Video wall)

Supervision
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Dr. Peter Bus   bus@arch.ethz.ch

Exercises 50% (documentations)
Presentation 25% (project at the end)
Written documentation 50%

The most recent outline will be found on www.ia.arch.ethz.ch

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