# Design of the Festival Layout

Layout Design with the simplified needs "Drinks", "Food", "Stage", "Toilet"



Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich



07.11.2016 Lukas Treyer Dani Zünd



### Overview

#### Engineering the City: Examples

#### Caliente Festival: Optimize for

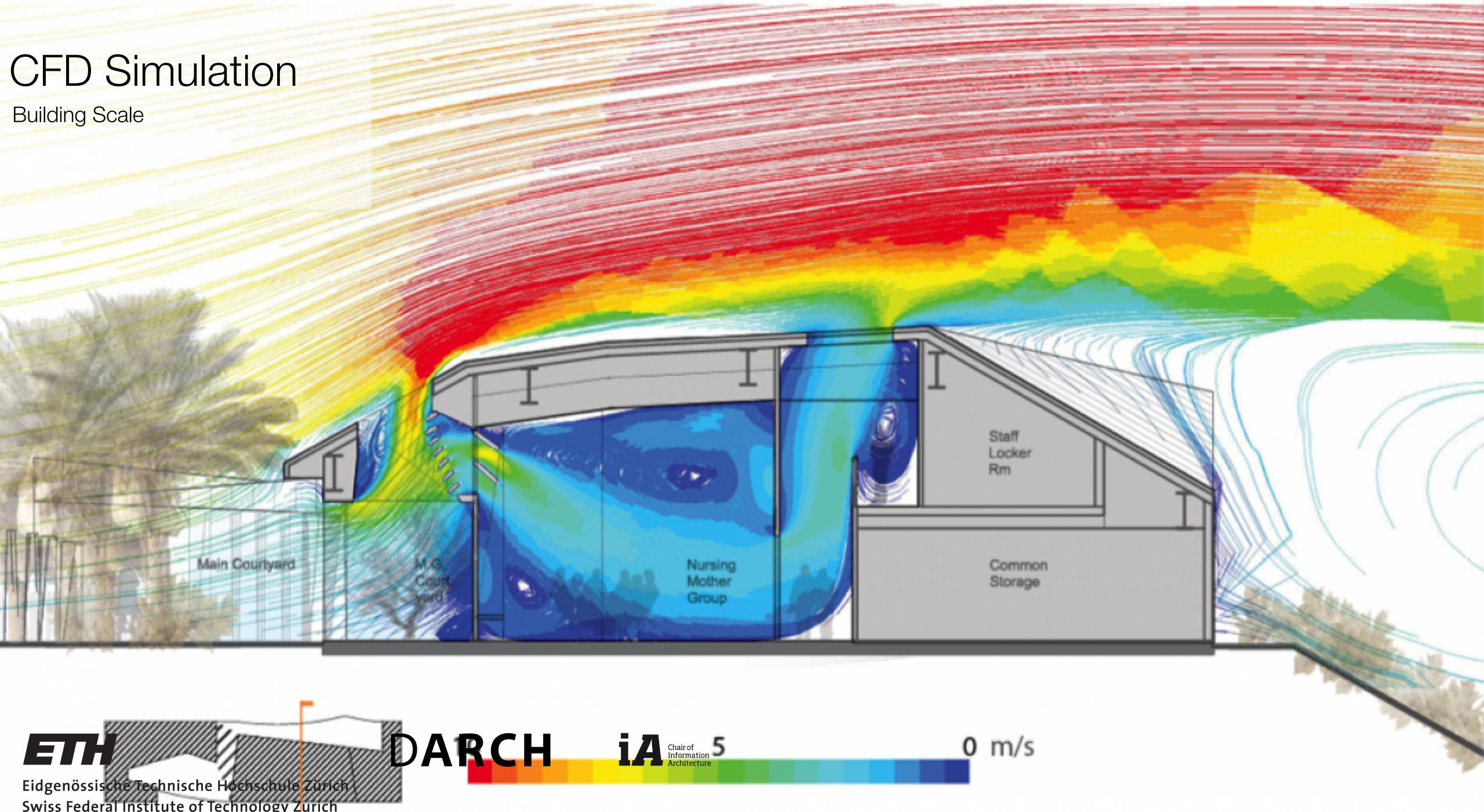
- a) flow of people
- b) profit for all stands
- c) n° happy people
- d) security



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Matsim https://youtu.be/rWTFg1UkZTc

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#### DARCH FA Chair of Information Architecture

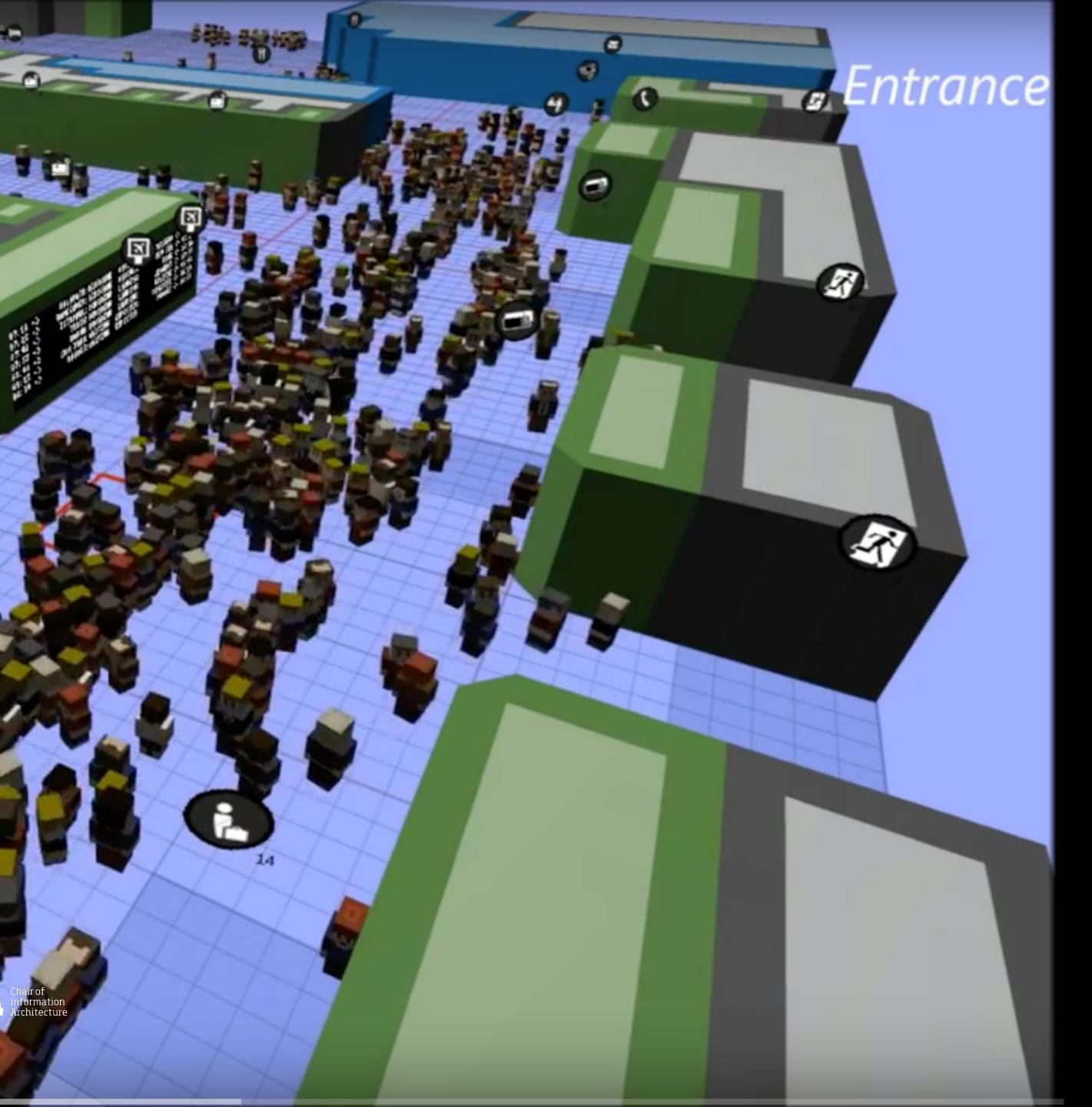


# Agent-Based Sim

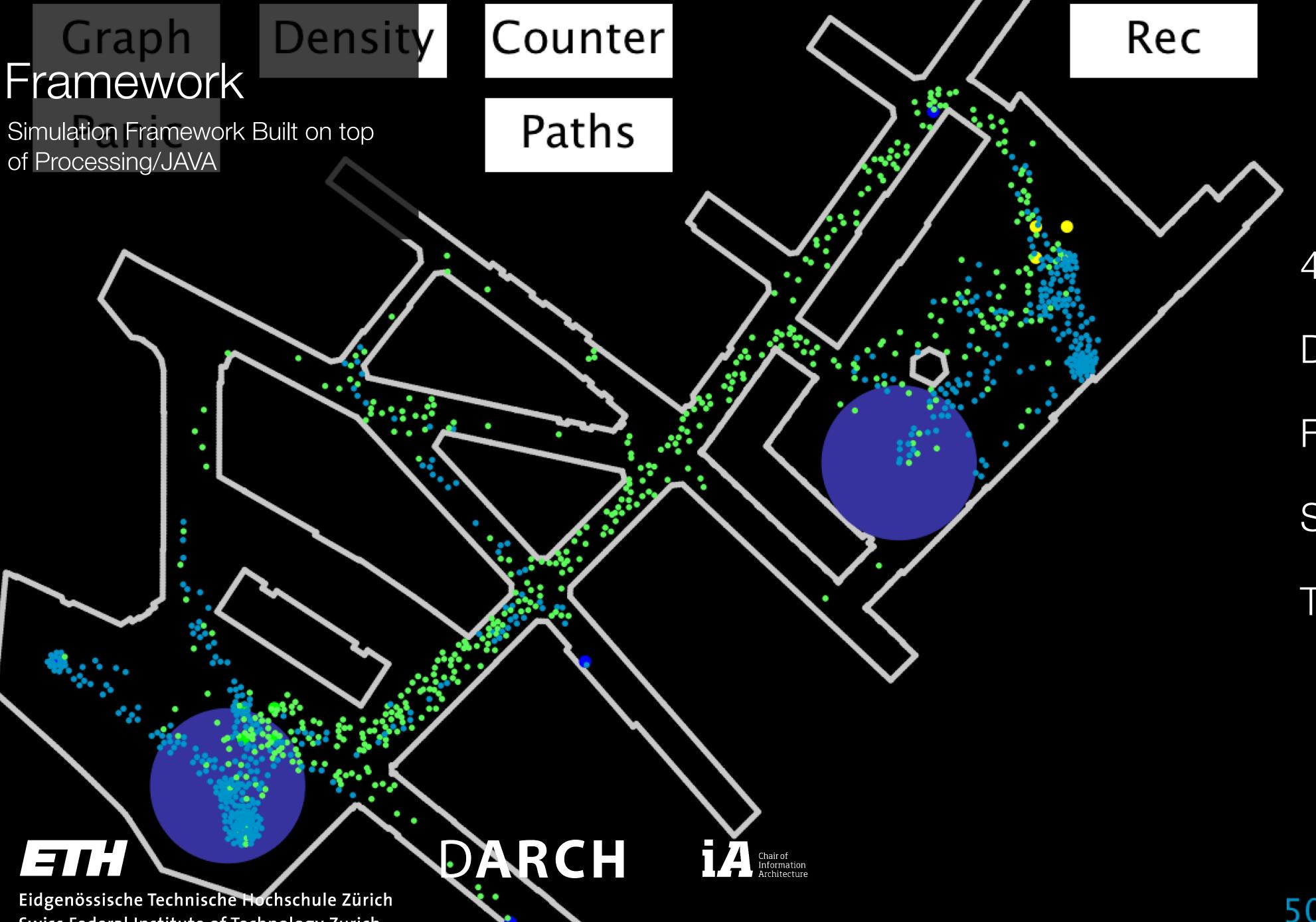
https://youtu.be/Bot5\_DouTWg

# DARCH IZA Chair of Information Architecture

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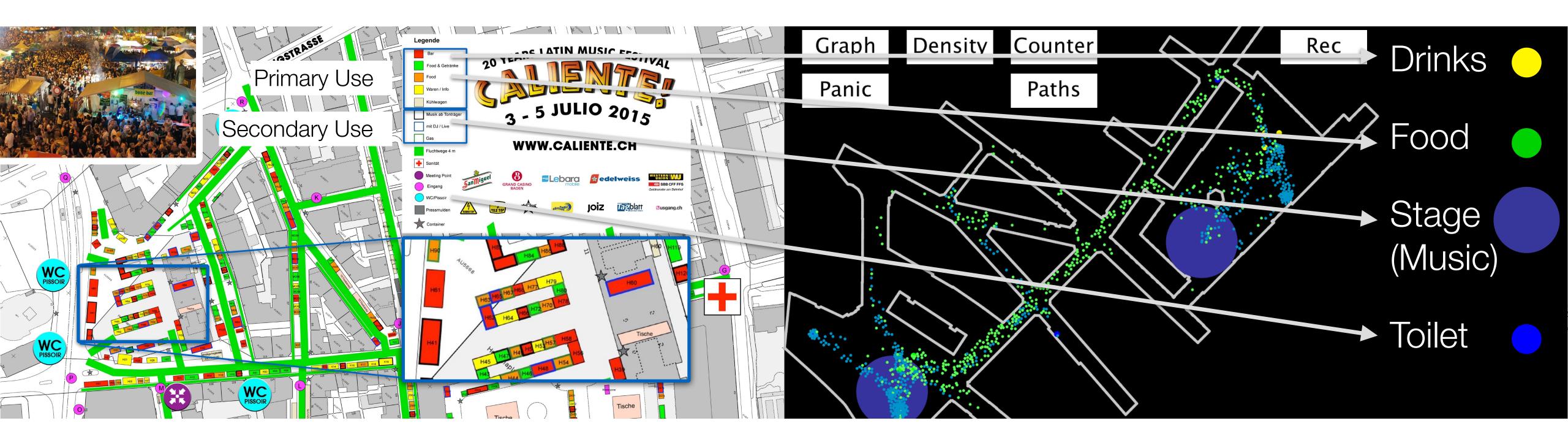
4 types of needs: Drinks Food Stage (Music) Toilet

502 ClosestNeedPerson 498 RandomPerson



# Abstraction

Simplified Assumptions to make programming easier

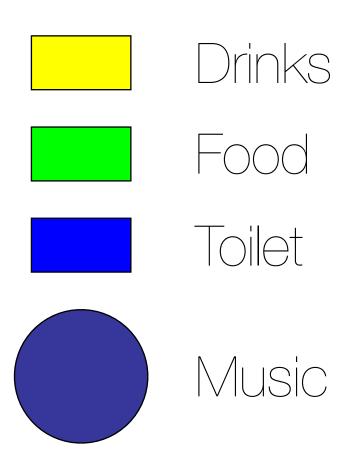




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## Exercise 3



Place 20 drink stands, 20 food stands, 8 toilets, 3 music stages in order to create maximal

a) flow of people b) profit for all stands c) n° happy people d) security



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