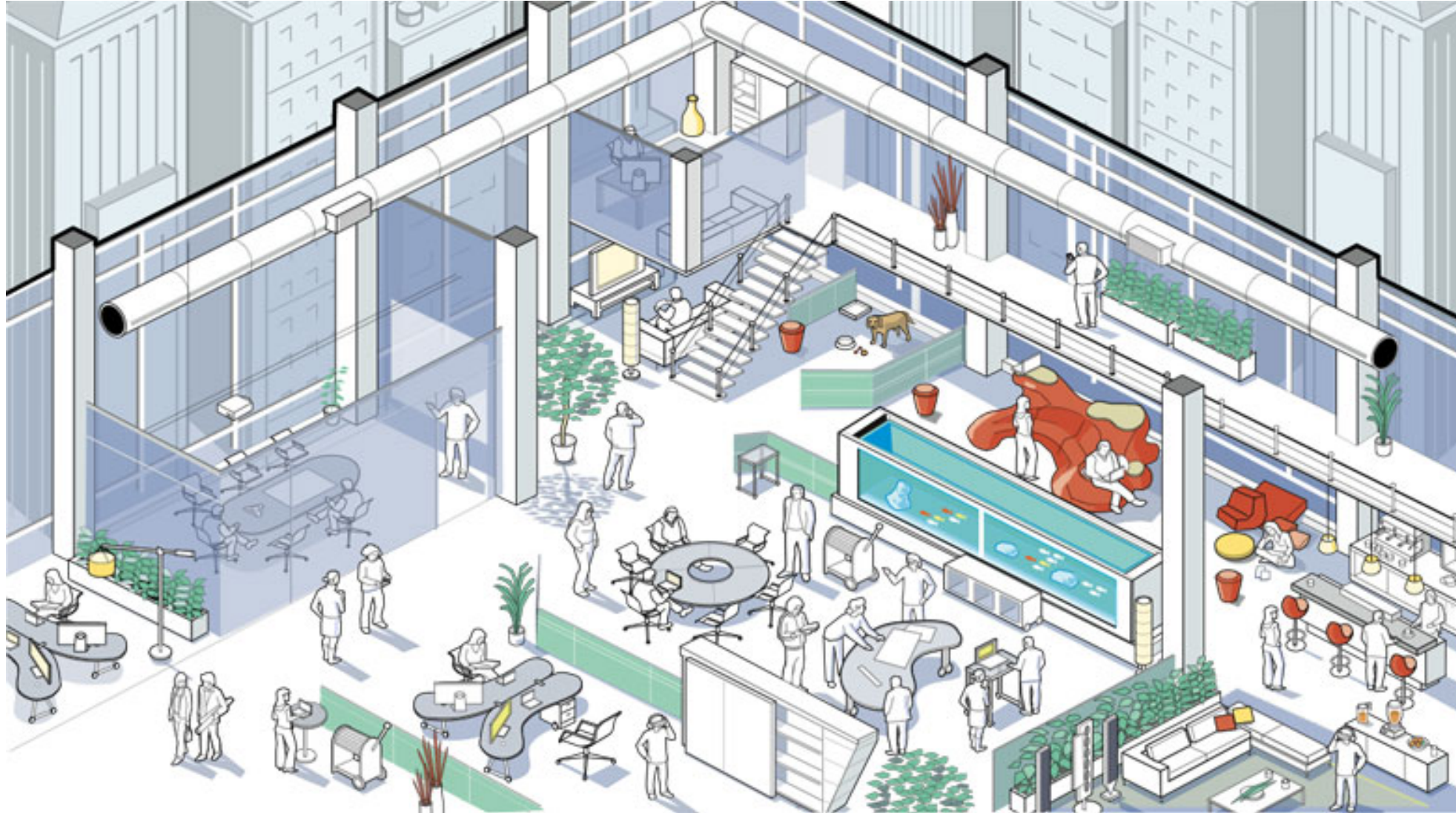


# MULTIFUNCTIONAL OPEN SPACES AT ETH ZURICH

By Giannis, Iliana, Leonard, Marie-Claire, Martin, Xiaying  
Participants of Student Innovedum 2017

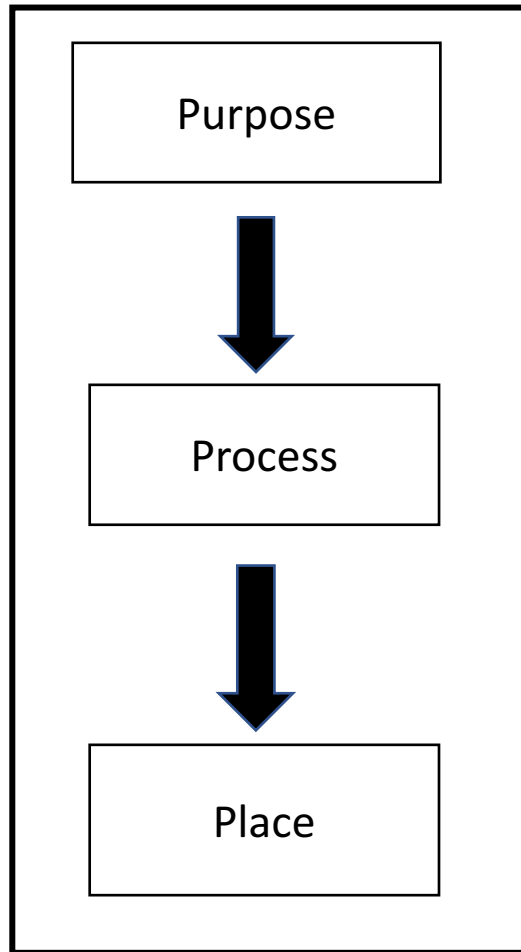
# OUR VISION



# THE REALITY



# SCIENTIFIC BACKGROUND



The increase of self-regulated learning in education implies a shift in the role of the physical learning environment. [3]



Less formal settings where students can learn from one another are becoming more common. [4]



To implement new learning theories 3 categories are required for learning spaces (besides classrooms) [1]:

1. Collaborative setting
2. Individual study setting
3. Informal learning setting

Design framework for learning spaces [2]

[1]: Beckers et al. 2013

[2]: Duffy et al. 2011

[3]: Zumbrunn et al., 2011

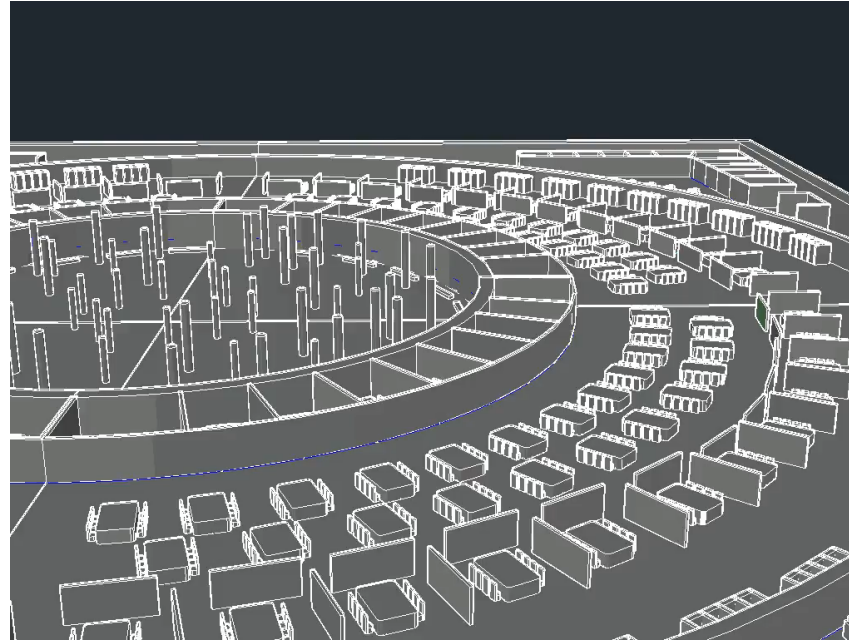
[4]: Marmot, 2006

# MULTIFUNCTIONAL OPEN SPACES AT ETH

**Quiet individual study areas**



Grove Isle of Portland Aldridge Community Academy



**Outdoor areas**



Harvard University Campus

**Open discussion areas**



Bond University\_Queensland

**Group discussion rooms**



Carleton University

**Recreational areas**



UNSW Sydney

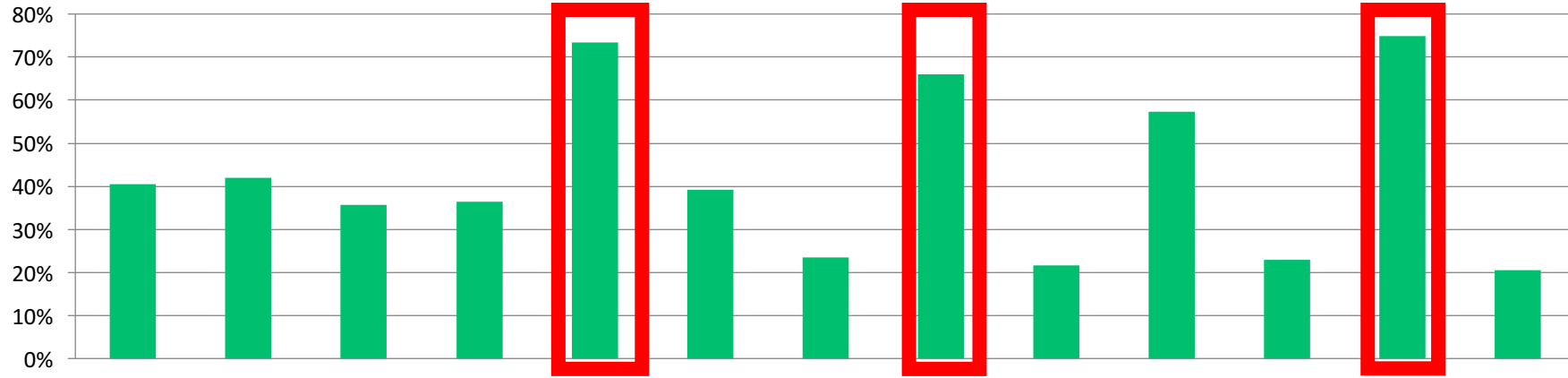
# HOW SATISFIED ARE YOU WITH LEARNING SPACES PROVIDED BY ETHZ?



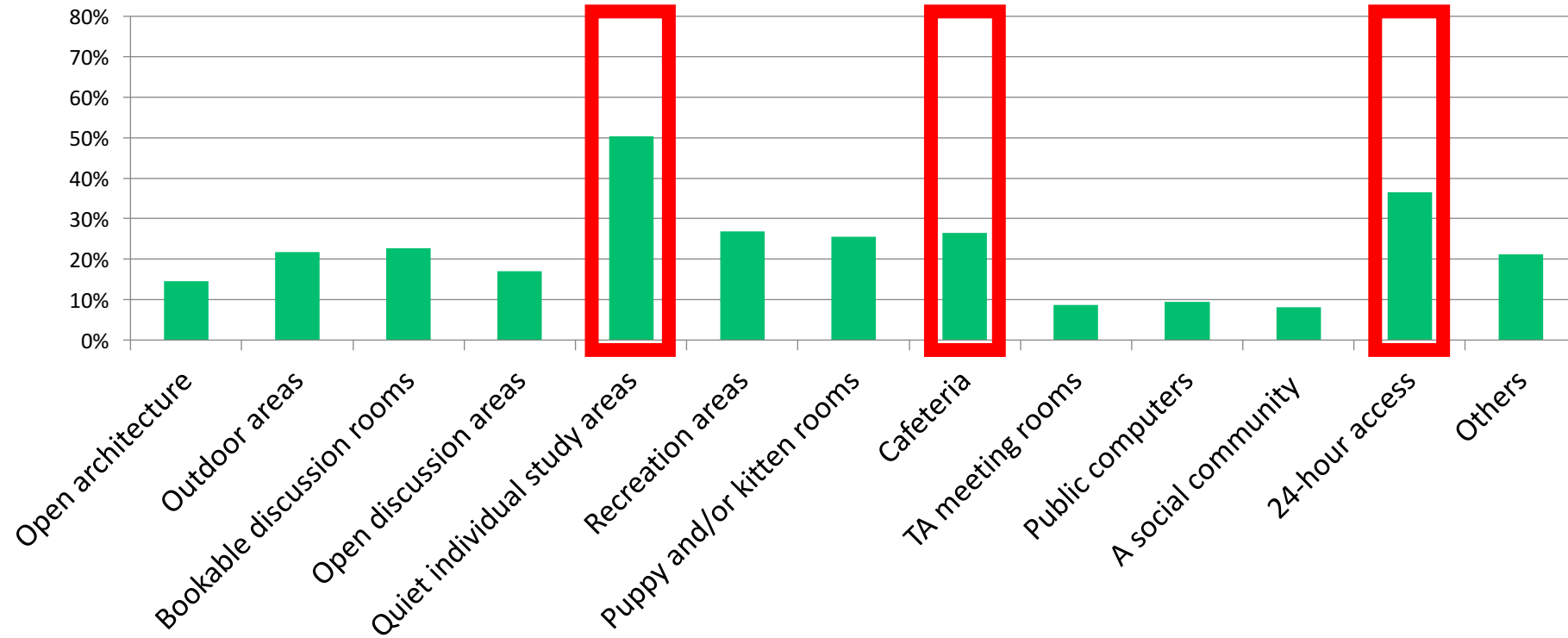
n = 2'067

- POTENTIAL IMPROVEMENT
- AVERAGE SATISFACTION

# WHAT DO YOU THINK IDEAL LEARNING SPACES SHOULD INCLUDE?

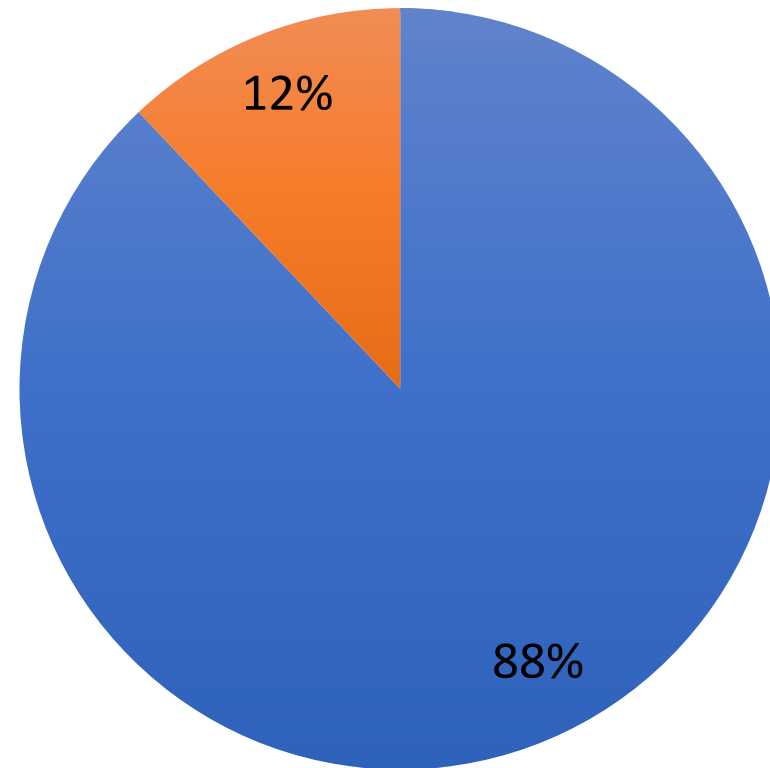


# IN WHICH CATEGORIES DO YOU THINK ETHZ LEARNING SPACES ARE LACKING?



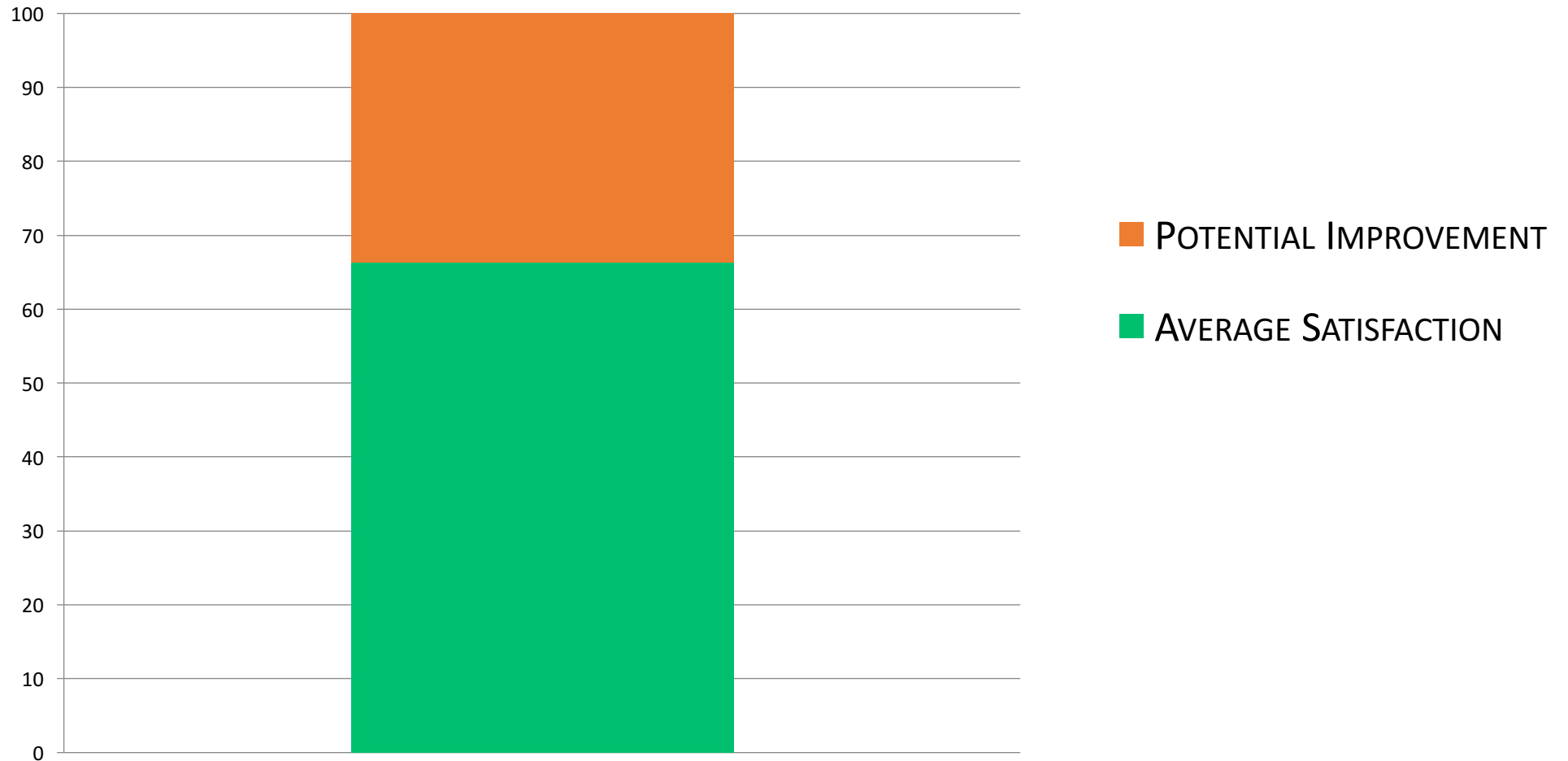
# IF THESE CONDITIONS WERE SATISFIED, WOULD YOU USE ETHZ LEARNING SPACES MORE OFTEN?

■ Yes ■ No





































# TO WHAT DEGREE WOULD YOUR REQUIREMENTS BE MET WITH THE DESIGN WE SHOWED YOU?



# RANKING

1	 Massachusetts Institute of Technology (MIT)	
2	 Stanford University	
3	 Harvard University	
4	 University of Cambridge	
5	 California Institute of Technology (Caltech)	
6	 University of Oxford	
7	 UCL (University College London)	
8	 ETH Zurich - Swiss Federal Institute of Technology	

# RANKING

1	 Massachusetts Institute of Technology (MIT)	
2	 Stanford University	
3	 Harvard University	
4	 University of Cambridge	
5	 California Institute of Technology (Caltech)	
6	 University of Oxford	
7	 UCL (University College London)	
1	 ETH Zurich - Swiss Federal Institute of Technology	

# WE NEED YOU



# STUDENT INNOVEDUM



Back row, left to right: Leonard, Giannis, Martin

Front row, left to right: Xiaying, Marie-Claire, Iliana

Further acknowledge to Karin Brown, Oliver Renn, Marion Hoffman and Melanie Walter