Bottom-up, small-scale, and transdisciplinary – Proposals for improving pedestrian mobility in Ethiopia’s capital Addis Ababa

Walk21 Vienna
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Student Workshop

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People with bold names were also involved in the preparation of this presentation
Our approach: Bottom up

“Bottom up Interventions improve the pedestrians’ daily economic activities and provide a basis for sustainable, as well as economic, development.”
Our approach: Small scale
Our approach: transdisciplinary

<table>
<thead>
<tr>
<th>Architecture BSc</th>
<th>Civil Engineering MSc</th>
<th>Sociology MSc</th>
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**EiABC**

**ETH Zurich**

ETH Sustainability

Chair of Basic Architectural Design I&II EiABC

Departement of Architecture ETH Zurich

Transdisciplinary Lab USYS ETH Zurich

Mediation of Art and Design ZHdK

Transport Planning and Systems ETH Zurich
Method

- Data collection
- Problem framing
- Analysis
- Prototype
Addis Ababa

- Capital of Ethiopia
- 3.5 – 5 million inhabitants
- 2.5 % growth rate
- Modal share
  - Public transport: 47 %
  - Walking: 44 %
  - Private cars: 9 %
Present day transport system: Roads

- Between 2005 and 2010 21% more streets
Present day transport system: Public Transport

- Opening of LRT Line
Present day transport system: Pedestrians

- Only 35% of the newly built streets have walkways
Addis Ababa: Walking in daily life

- Waling is vital for the economy of many people
Data collection
## Problem framing

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<tr>
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<th>Solution</th>
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Churchill road minibus station
Churchill road minibus station
Problem Statement

“Minibus users need weather protection, because they have to wait for a long time for the minibuses.”
Churchill road minibus station
No rain - rain
Churchill road minibus station
Prototypes

1. existing
2. movable shelter
3. concrete cover
4. arcade
Churchill road minibus station
Prototypes
Jemo I Housing
Jemo I Housing

“Within the public housing site of Jemo I, a lack of social interaction and daily pedestrian activities is confronted with fallow land and fenced off streets.”
Jemo I Housing
Either Fences or street activities
Jemo I Housing Prototype
Conclusions

- Interdisciplinary teams have a high added value (and are a lot of fun)
- Each place has different problems
- Get as much insights to the location as possible
- Prototyping is an option to create useful interventions
- Bottom up is a good strategy for pedestrian mobility
Questions?

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For more information have a look at the workshop report:
https://www.ethz.ch/content/dam/ethz/main/eth-zurich/nachhaltigkeit/Berichte/ETHSustainability_SummerSchool/EIABC/ETH-EiABC%20Workshop%202014_Final%20Report.pdf