CIVITAS FORUM 2014

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Casablanca

Michael Boßhammer, Institute for Urban and Transport Planning

RWTH Aachen University
Modal shift effects of mobility management measures at Aachen University
City of Aachen

- Most western large city of Germany
- Border area of Belgium, Netherlands and Germany
- 261,762 inhabitants (2012)
- Very young population
  - Average age of 41
- Science city
  - Around 52,000 students
  - RWTH Aachen University and University of Applied Science
RWTH Aachen University

- **4 university areas**
  - Plus individual, smaller locations in the urban area
- **Dispersed location of institutes and lecture halls**
- **9 faculties with 260 institutes at the university**
- **8,494 employees (April 2014)**
- **40,375 students (winter term 2013/2014)**
Employees' places of residence

- **RWTH Aachen University**
  - More than 1,000 employees live in one central postcode area (> 12%)
    - max. distance to University = ~ 2.5 km (beeline)
  - 5,207 employees (62%) live in the city of Aachen

Source: ISB, RWTH University (2014)
Employees' places of residence

- **Mobility survey 2013**
  - 1,011 employees (39%) live in a distance of max. 5,0 km to the university (own estimation of the participants of the survey)

### Distance from home to the place of work

*(n = 2,596)*

<table>
<thead>
<tr>
<th>Distance from Home</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 2,5 km</td>
<td>12%</td>
</tr>
<tr>
<td>2,5 - 5 km</td>
<td>27%</td>
</tr>
<tr>
<td>6 - 10 km</td>
<td>20%</td>
</tr>
<tr>
<td>11 - 30 km</td>
<td>27%</td>
</tr>
<tr>
<td>31 - 50 km</td>
<td>9%</td>
</tr>
<tr>
<td>51 - 100 km</td>
<td>5%</td>
</tr>
<tr>
<td>&gt; 100 km</td>
<td></td>
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</tbody>
</table>
Reasons for operating mobility management

- **The extended areas are currently in their development phase**
  - increase of ~ 10,000 jobs (only Campus Melaten)

- **Construction and proof of car parking space is required**
  - Lack of building land
  - Construction is too expensive

- **Clean air plan**
  - To avoid „Low Emission Zone“ in Aachen

→ Masterplan Mobility of RWTH Aachen University
  - Traffic and mobility management
Timetable

2009
• Masterplan Mobility of the Aachen University

2010
• 1st mobility survey
• Assessment of the interest in a jobticket
• 3,324 survey participants (43 %)

2011
• Implementation of a jobticket and parking space management

2013
• 2nd mobility survey
• Mobility behaviour → Modal shift?
• Evaluation of cycling, parking and PT
• 2,612 survey participants (31 %)
Mobility management measures (extract)

- **Jobticket**
  - 20 – 35 € per month
  - Includes a parking permit
  - The University pays the difference to the standard price

- **Parking permit**
  - 5 € per month
  - allows to park in the parking areas of the university
  - Park monitoring by its own staff of the university (3-4 traffic wardens)

- **Bicycle racks**
  - Exchange and extension

Source: Own map; Data: RWTH Aachen University (2014)
Success of the measures

Question (2010): Which mode of transport will you use, when there is the jobticket and the parking space management?

<table>
<thead>
<tr>
<th>2010</th>
<th>Intended use of transport in the future</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modal split</td>
<td></td>
</tr>
<tr>
<td>19%</td>
<td>5%</td>
</tr>
<tr>
<td>32%</td>
<td>13%</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>2013</th>
<th>Modal split</th>
</tr>
</thead>
<tbody>
<tr>
<td>1%</td>
<td>33%</td>
</tr>
</tbody>
</table>
Mobility services at the University

Mobility survey 2013

Which mobility service(s) do you use?
(n=2,460)

- jobticket
- parking permit
- jobticket & parking permit
- student ticket
- no ticket

→ More than half of the probands (57 %) have a ticket for the public transport
Modal Split depending on the employees' residence

Source: ISB (2014)
Motorised private transport depending on the employees’ residences

Note: Motorised private transport as driver and passenger

Source: ISB (2014)
Public transport depending on the employees’ residences

Legend
- boundaries (city/ commune)
- national borders
- 81% - 100%
- 51% - 80%
- 41% - 60%
- 21% - 40%
- 0% - 20%

2010

2013

Source: ISB (2014)
Success of the measures

Source: Own picture

Source: Own picture

Source: Own picture

Source: Own picture
Outlook

Pedelec rental system

Carpooling system

Carsharing
Thank you!

Michael Boßhammer

Contact Details
Institute for Urban and Transport Planning
RWTH Aachen University
Mies-van-der-Rohe Str. 1
52074 Aachen
bosshammer@isb.rwth-aachen.de
www.isb.rwth-aachen.de
http://www.civitas.eu