HafenCity Hamburg: Urban Health and Innovation

Professor Jürgen Bruns-Berentelg
CEO HafenCity Hamburg GmbH

Paris, February 4th 2015
ULI / Europe Annual Conference: Urban Health and Innovation
HafenCity Hamburg – An Urban Transformation Strategy

HafenCity

- inner-city brownfield development
- Masterplan: 2000; updated: 2010
- time frame of development: 25 years
- area: 387 acres or 157 ha, 123 ha land area
- 45,000 jobs up to 7,000 homes for 12,000 residents
- Approx. 10.9 bn € total investment volume (private and public)

as **City**: 40% area enlargement as ‘New Downtown’

as **Waterfront**: 10.5 km new urban land- and waterline
HafenCity Hamburg – The Radical Transformation of Harbour and Industrial Space into Urban Space
HafenCity Hamburg – New Downtown: Merging Workspaces, Commerce, Urban Living, Public Spaces, Culture and Leisure Facilities
Developing an Urban Structure to Provide Incentives for Healthy Living
HafenCity Hamburg – The Sustainable Land Use Structure of a New Downtown: Density and Public Space (380 jobs and 95 inhabitants per ha)
HafenCity Hamburg –
The Urban Structure of Sustainable (Public) Mobility
Public Transport / Subway / Fuel Cell Hybrid Busses / Ferries
HafenCity Hamburg –
The Urban Structure of Healthy Sustainable/Resilient Mobility
Lengths of Different Forms of Mobility Infrastructure

Length of Mobility Infrastructure in HafenCity

- **Streets:**
  - main streets: 13.0 km
  - service roads: 5.0 km
  - 7.1 km

- **Pedestrian ways:** (adjacent to roads, promenades, public spaces, including one-ways in parks)
  - 34.8 km

- **Cycle path length, separated from car traffic (total):**
  - Cycle path including walking/cycling mixed spaces (promenades and public spaces), length: 15.9 km
  - Cycle path on designated lanes (cycle track, protective strips), length: 9.5 km
  - 6.4 km

- **Length of mixed-use service roads including cycling (co-usage of roads):**
  - 7.1 km
Space Utilisation for Soft Mobility in HafenCity:

- Land area*: 112 ha - 100%
- Street scapes: (including separating strips 1.8 ha) 13.6 ha - 12.1%
- Cycle path area (one way): 2.6 ha - 2.3%
- Pedestrian area (auxiliary road area, promenades and places area, without ways in Parks), area: 44.5 ha - 39.5%
- Total mobility scape: 60.7 ha - 54.2%
- Park area (Sandtorpark, Grasbrookpark, Lohsepark, Baakenpark) area: 9.4 ha - 8.4%

* without Quarter Oberhafen
Hafencity Hamburg – Walking With Your Eyes: An Incentive for Strolling Mixture and Differentiation of Concepts and Uses at Ground Floor (approx. 330,000 m² GFA)
HafenCity Hamburg – The Micro-Differentiation of Public Spaces by Design
The Integration of Sports, Leisure and Health
HafenCity Hamburg – Baakenhafen Quarter: Health Aspects of Neighbourhood Development
Children, Old/Disabled People, Food, Sports, Social Connectivity
Protecting the Health of People
Noise Cap
At nights: 10 PM – 6 AM
Max. 63 dB(A)/m²

Noise Cap
At nights: 10 PM – 6 AM
Max. 60 dB(A)/m²

Noise Cap
At nights: 10 PM – 6 AM
Max. 55 dB(A)/m²
HafenCity Noise
The Innovative Solution of the „HafenCity Window“

Abbildung 11: Schematische Darstellung der Einflussparameter bei schall-absorbierend verkleideten Fensterlaibungen [10]

a Schallabsorptionsgrad der Laibungsverkleidung
b Schlitzbreite des Kippfensters oben

Zur Erhöhung der Schalldämmung der Fenster auch im gekippten Zustand wurde die Fensterlaibung mit schallabsorbierenden Materialien verkleidet. Die Materialien wurden hierbei auf der Unterseite des Fenstersturzes in der gesamten Breite sowie auf den seitlichen Laibungen aufgebracht.

Abbildung 12: Schalldämmung eines Kippfensters bei verschiedenen Schlitzbreiten ohne absorbierende Laibungsverkleidung [10]

<table>
<thead>
<tr>
<th>Schlitzbreite</th>
<th>$R_w^*$</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>16</td>
</tr>
<tr>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>20</td>
<td>13</td>
</tr>
<tr>
<td>40</td>
<td>11</td>
</tr>
<tr>
<td>80</td>
<td>11</td>
</tr>
</tbody>
</table>

$R_w^*$ in dB

Frequenz $f$
HafenCity Hamburg – Reducing the Emission from Cruise Ships via Energy Supply from a Hybrid Barge
HafenCity Hamburg: The Private Medical School as Part of a Protective Health Strategy

MSH Medical School Hamburg
University of Applied Science and Medical University

Private, state-approved University
- Founded in 2009
- 1,300 students
- Psychotherapeutic Ambulance (consultancy and therapy)
- Center for clinical-psychological research and family research
- Faculties: Health Faculty and Faculty of Human Science

Health Faculty:
- 10 Bachelor Programmes (B. Sc.), i.e. Advanced Nursing Practice, Medical Controlling and Management
- 4 Master Programmes (M.A.), i.e. Sport Psychology, Coaching and

Faculty of Human Science:
- 1 Bachelor’s Degree in Psychology (B.Sc.)
- 5 Master Programmes (M. Sc./M.Ed.): i.e. Geriatric Psychology, Health Psychology, Medical Pedagogics
Thank You for Your Attention!

Professor Jürgen Bruns-Berentelg
CEO
HafenCity Hamburg GmbH