HAMBURG GREEN ROOF STRATEGY
ON THE ROOF - GET GREEN!

GREEN ROOF STRATEGY HAMBURG

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MCR2030 Webinar: Nature-Based Solutions: Tools for Europe and Central Asia
09/12/2021
Hamburg: Economic Strength and High Quality of Life

- 1.8 Million inhabitants (5 Million in the metropolis)
- Germany’s biggest sea port
- Over 500 industrial enterprises
- Media and creative industries
- Strong service sector

Nearly 40% of:
- Green spaces
- Water
- Woodlands
- Agriculture
Political Commitment

Start: April 2014: 80 hectare
Target: + 100 ha green roofs in 10 years
The Benefits of Green Roofs

- Water retention
- Climate Control
- Biodiversity
- New green spaces in an densifying city
The Strategy

Promotion
- Subsidies
- Reduced rain water tax
- Green roofs on public buildings

Dialogue
- Public relations
- Communication
- Green roof competition

Regulation
- Land Use Planning
- Nature protection
- Urban climate concept

Scientific Support
- Measurement programme
- Evaluation programme

© BUE/TH Treibhaus Landschaftsarchitektur, Aerial: Mathias Friedel
**Promotion: Subsidy Scheme**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total funding available</td>
<td>3 Mill. € up to 2020</td>
</tr>
<tr>
<td>Eligibility</td>
<td>New and existing buildings</td>
</tr>
<tr>
<td>Voluntary measures</td>
<td>Voluntary measures</td>
</tr>
<tr>
<td>Minimum area for green roof</td>
<td>&gt; 20 m²</td>
</tr>
<tr>
<td>Minimum depth for new buildings</td>
<td>&gt; 12 cm (new buildings) resp. &gt; 8 cm</td>
</tr>
<tr>
<td>Maximum depth for existing buildings</td>
<td></td>
</tr>
<tr>
<td>Ownership</td>
<td>Private owners &lt; 100 m² 40% of investment</td>
</tr>
<tr>
<td>Building Type</td>
<td>Commercial buildings: funding according to type of green roof</td>
</tr>
<tr>
<td>Maximum funding amount</td>
<td>50,000 €</td>
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</tbody>
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Dialogue: Public Awareness Campaign

- 170 newspaper articles
- 56 journal articles
- 10,000 brochures, flyers
- 90 events
- 8 television contributions
Promotion: Leading by example

17,5 Mio € for public schools
Enlargement to Green Facades
Focus on roof greening as well as façade and street space greening
Regulation: Instruments

- Tender conditions
- Urban Development Contracts
- Zoning plans
Action point: Scientific support

Life Cycle Costs of Hamburgs Green Roofs

Evaluation of green roof hydrologic performance for rainwater run-off management

Biodiversity Monitoring of soil arthropods and other insects

Source: Hamburgs Gründächer
Eine ökonomische Bewertung, HCU

© BUKEA, Justus Quanz

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Results: Green Roofs in Hamburg 31.1.2018

<table>
<thead>
<tr>
<th>Type</th>
<th>No.</th>
<th>Hectare</th>
<th>%</th>
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<tbody>
<tr>
<td>Total</td>
<td>5764</td>
<td>138.3</td>
<td>100</td>
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<tr>
<td>Residential</td>
<td>4427</td>
<td>55.9</td>
<td>40</td>
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<tr>
<td>Commercial</td>
<td>557</td>
<td>49.6</td>
<td>36</td>
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<tr>
<td>Other</td>
<td>780</td>
<td>32.8</td>
<td>24</td>
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</table>

2014: ~ 80 hectare
2018: ~ 140 hectare
## Results: Incentive Programme 31.12.2018

<table>
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<tr>
<th>Applications approved</th>
<th>ha</th>
<th>€</th>
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<tbody>
<tr>
<td>118</td>
<td>4,5</td>
<td>1,010,000.-</td>
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<tr>
<td><em>(Updated 2021)</em></td>
<td>16,5</td>
<td>&gt; 3 mio</td>
</tr>
</tbody>
</table>
Lessons

+ Binding political decision
+ Strategic approach and comprehensive concept
+ Coordinated activities of city departments
+ Involvement of stakeholders
+ Incentives (good for PR, but not always effective)
+ takes time to establish

- Political priority ‘affordable housing’
- Much harder to upgrade existing building than those which are newly planned and built
Thank you!

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