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City of Hamburg

mySMARTLife - Experiences from retrofitting in Bergedorf-Süd, Hamburg

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731297.

Implementation context for the retrofitting project: Smart city project mySMARTLife

Programme: EU HORIZON2020 call „Smart Cities and Communities lighthouse projects“
EU funding: 18.6 m€
5 years lifetime: Dec 2016 - Nov 2021

Lead cities: Nantes (F), Hamburg (D), Helsinki (Fi)
Fellow cities: Bydgoszcz (Pl), Palencia (E), Rijeka (HR), Varna (Bul)

Action fields: Energy, Mobility, ICT and Citizen Engagement

Main goals

- Innovative Urban Transformation Strategy
- Business Models
- Replication Plans
- Encourage cooperation and networking

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New construction and retrofitting area for energy actions: An excellent testing field for smart city solutions

Backgroundmap: d-Maps.com

Own design

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Characteristics of Bergedorf-Süd: Heterogeneous project area with potential for energy savings

- **Centrally** located
- 35 ha, ca. **5,000 inhabitants**
- ca. **500 buildings**

- **Fragmented ownership** with ca. 200 owners
- **Mixed use**: residential and commercial
- **Variety of buildings**: age, storeys

- **Heating is mainly based on gas**, small extent of night storage heaters

- **Noticeable potential for energy improvements** by solar thermal energy, photovoltaics and energetic refurbishment

map: www.openstreetmap.org; konsalt GmbH

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Recent retrofitting history in Bergedorf-Süd: Experiences gained over 4-5 years

- **Energy study and retrofitting concept** 2013-2014
- **EnSam project** 2014-2017, national funding for „Energy Efficient City Retrofitting“ (might be continued)
  - engeneering services
  - information events
- **mySMARTLife** 2016-2021, European funding
  - engeneering services
  - information events
  - network building

map: www.openstreetmap.org; konsalt GmbH

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Showcase project I:
Refurbishment of a school under cultural heritage

picture: konsalt GmbH

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Showcase project II:
District heating and PV network

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Valuable experiences from implementation: Two more years in mySMARTLife to overcome identified barriers

- **Missing clients**: hard to get in contact with fragmented ownership
- **Difficult to find an coalition of willing to built heating networks:** owners prefer to be consumer not prosumer; and timing is crucial here
- **Impact from other developments can be hampering**: vicinity to new construction area, housing program
- **Funding is complex/comprehensive**: must be simplified and react short term

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If you want to know more about mySMARTLife: Visit our stand D450 or mysmartlife.eu

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Thank you for your attention!

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