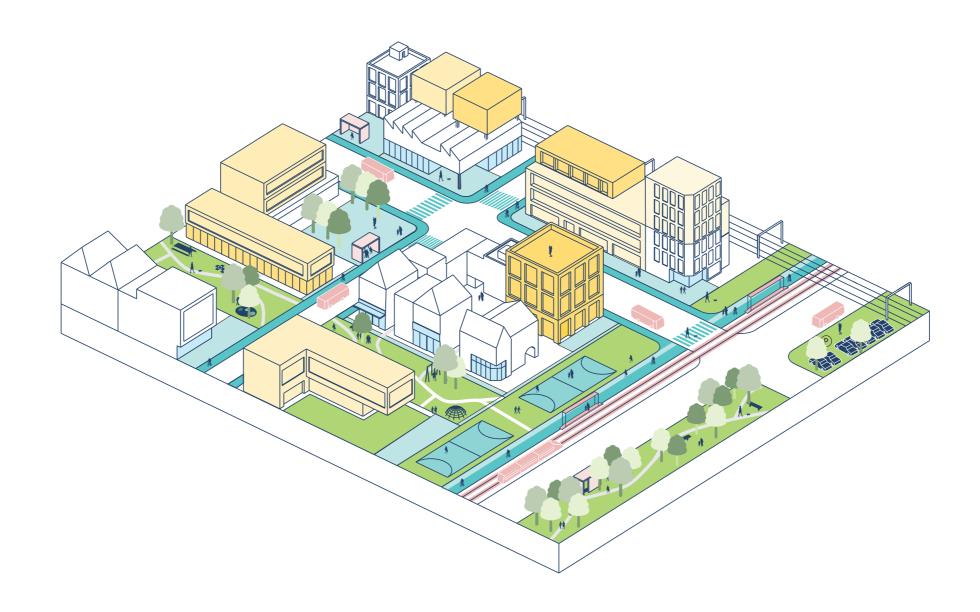
## Urban Challenges: Fringe Solutions

Moderated by Jan Edøy



Urban Challenges: Fringe Solutions Conference 13 June 2017

#### Practitioners' view

Matthias Herding Solar- and Climate villages Garath, Düsseldorf

Urban Challenges: Fringe Solutions Conference 13 June 2017



# Garath 2.0 Mapping the change

Best Practice
Solar village / climate protection village

12th June 2017



#### Location



#### Düsseldorf

- · Capital of North Rhine-Westphalia
- City on the Rhine
- Growing city
- Germany's most livable city

#### Within a radius of an hour's drive

- 11,6 million inhabitants
- 500,000 companies

#### Within a radius of 500 km (311 miles)

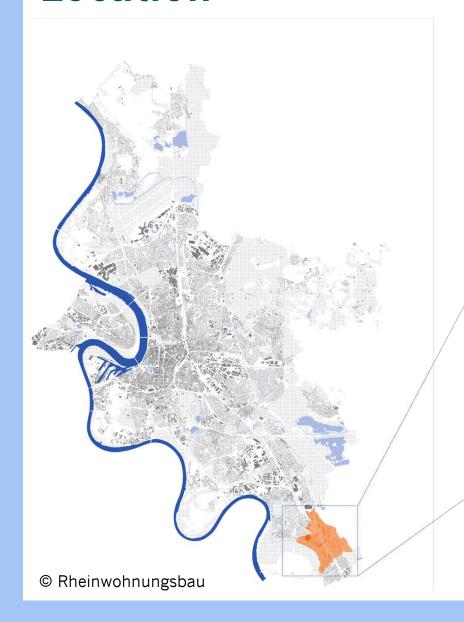
Lisbon

- 156 million inhabitants
- 31% of the entire EU population
- 50% of EU purchasing power



#### Location









Social City area Garath with project area

**:D**ÜSSELDORF

### Location





**:D**ÜSSELDORF

## **Original Situation**











## Competition











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## **Challenges**



- 90% of the former apartments were inhabited
- Residents were informed early in process
- Questionaires for residents' requirements
- One-to-one interviews to discuss an implementation agreement
- Housing association accommplied residents through the whole process
- Nearly every resident found a new home in the renovated or new buildings
- Costs for new constructions are higher than costs for modernization and refurbishment
- High investment backlog of around € 10 Mio.
- Investment of 34 Mio. €



## **Construction phases**







## Site plan



#### Solar village → 1st and 2nd construction phase





## Site plan



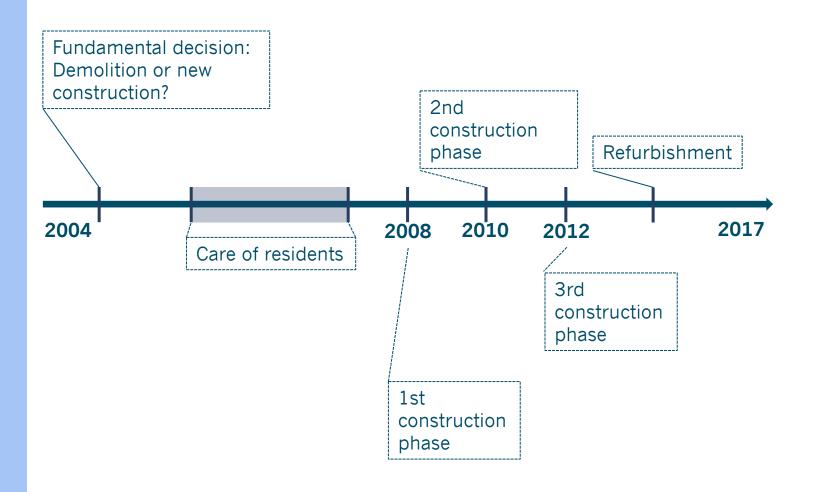
#### Climate protection village → 3rd construction phase



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#### **Timeline**





## **Today**











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## **Project scope**



#### 1st construction phase



- + 57 rented flats with a living space of 4.570m<sup>2</sup> in total
- + 21 flats are publicy funded of NRW
- + 90% were built barrier-free

#### 2nd construction phase



- + 65 rented flats with a living space of 4.490m<sup>2</sup> in total
- + 27 flats are publicy funded by NRW
- + 90% were built barrier-free

#### 3rd construction phase



- + 65 rented flats with a living space of 5.100m<sup>2</sup> in total
- + 12 flats are publicly funded by NRW
- + all flats were built barrier-free

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# Garath 2.0

Mapping the change

Thank you for listening

