FROM POST-WAR LIVING ENVIRONMENT TO CONTEMPORARY NEIGHBOURHOOD
The case of South Kolenkitbuurt in Bos en Lommer, Amsterdam

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location

South Kolenkitbuurt

Bos en Lommer

4km

A'dam old city
problem statement

**PHYSICAL environment**
- Physical degradation of built space
- Fragmentation of urban space
- Insufficient diversity of apartment sizes and public functions
- Image contrast between existing blocks and new developments

**SOCIAL environment**
- Isolation
- Weakness to integrate
- Impoverishment
- Feeling of insecurity

intervention aim
to accomplish a long-term socially, environmentally and economically feasible community, by focusing on:
historical development

South Kolenkit as built

South Kolenkit nowadays
public space
Society and public functions

Native population: 90%
Immigrant population: 70%

1950

1975

Now

As designed

As being used
problem statement

**PHYSICAL environment**

- **Physical degradation** of built space
- **Fragmentation** of urban space
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**SOCIAL environment**

- **Isolation**
- **Weakness to integrate**
- **Impoverishment**
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intervention aim

To accomplish a long-term socially, environmentally and economically feasible community, by focusing on:

![Diagram](image-url)
intervention concept_urban

SQUARE WALKING ROUTE

SQUARE

culture

sports

mosque
cafe

1
2

1

2
masterplan

- on site compost production
- "urban livingroom" - continuous green space - permeable paving
- shops run by local residents
- Limited car parking - car sharing model
urban section

- continuous green space with deciduous trees
- water permeable paving

public cafe run by residents
walking route
mosque
urban section

covered space for public activities maintained by residents

water infiltration and draining to the canal
intervention concept_communal+private

COMMUNAL ZONE

AGRICULTURAL ALLOTMENTS
floorplans

GROUND FLOOR

1st FLOOR

- communal room
- bike storage
- RV systems
- allotments
- storage for gardening tools
- indoor communal space
- compost production
- limited car parking
- car sharing model
- shops run by local residents

- komfort
- 50m²
- 75m²
- 90m²
floorplans

TOP FLOOR

2nd-5th FLOOR
- deciduous trees
- continuous green space
- water permeable paving

sections

- allotments
- walking route
- communal parking

- covered space for recreational activities
- public café run by local residents

- sport centre
- maintained by residents

SECTION C

SECTION D
climatic design

EXISTING SITUATION

RETROFITEXISTING

ENERGY NEUTRALNEW ADDITION

EXISTING SITUATION

INTERVENTION TARGET
passive design strategy

- Rain water collection and storage in indoor tanks for toilet use
- Polluted air from car parking filtered
- Additional floor
- External insulation
- Winter garden + double glazing
- Basement slab insulation

REDUCTION (%)
mechanical installation design

PV PANELS
Excess electricity is used by public square buildings.

AIR TO AIR HEAT PUMP + FORCED AIR DUCTS

EXHAUST VENTILATION + HEAT RECOVERY FOR HOT WATER
Fresh air is let in the apartment through automated window grills.
structural details
realisation phases

EXISTING SITUATION

PHASE 1

PHASE 2