BRIDGING GAPS

REDEVELOPMENT OF THE SOCIALIST MASS-HOUSING QUARTER IN VILNIUS

Student: Mindaugas Šutavičius
Mentors: Dick van Gameren
Ype Cuperus
Huib Plomp

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INTRODUCTION
INTRODUCTION TO VILNIUS
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Medieval old town and fast growing central business district
Source: J. Maciulaitiene
INTRODUCTION TO VILNIUS
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Large housing estates further from the city center
INTRODUCTION TO VILNIUS
INTRODUCTION TO NEWTOWN DISTRICT
Industrial Newtown district next to the old town
Source: miestai.lt
NEWTOWN DISTRICT TODAY
CAN THIS SITE BE A JOINING ELEMENT INSTEAD OF SEPARATING?
THE BLOCK
INTRODUCTION TO THE SITE

- Built in 1957 to accommodate factory workers
- First example of standardized prefabricated houses in Vilnius
- Initially planned to last for 30 years but has not been modernised ever since
IMPRESSION OF THE SITE
IMPRESSION OF THE SITE
MAIN ISSUES

- MONOFUNCTIONAL
- EXCESS OF SEMI-PUBLIC SPACE
- LACK OF RECREATIONAL SPACE
- INSUFFICIENT PARKING
- ONE TYPE OF HOUSING
STREET CHARACTER
URBAN STRATEGY
THE SITE
THE PUBLIC AXIS
THE COMMERCIAL STREET
THE GREEN STRIP: PICNIC HILLS
THE GREEN STRIP: CHILDREN PLAY ZONE

[Diagram of the green strip]

[Image of children playing in a playground]

[Map indicating location]
THE GREEN STRIP: GAME ZONE
THE GREEN STRIP: GARDEN
INCREASED ON-STREET PARKING
NEW UNDERGROUND PARKING
Housing
DESIGN PROPOSAL
Old-town perimeter block:

- Public & Private
- Active ground floor
- Diversity
- Architectural value
Soviet time free planning: Affordable
1. BACK & FRONT: CURRENT ENTRANCES
1. BACK & FRONT: NEW ENTRANCES
1. **BACK & FRONT: DIVIDING THE BACKYARD**

- **common yard**
- **common yard + groundfloor terraces**
- **yard divided by house sections**
- **yard divided by housing units**
- **2 houses - 1 courtyard**
1. BACK & FRONT: COLLECTIVE COURTYARD
2. IMPROVEMENT OF EXISTING HOUSING: CIRCULATION
2. IMPROVEMENT OF EXISTING HOUSING: TERRACES
2. IMPROVEMENT OF EXISTING HOUSING:

1. A NEW OPENING

2. REINFORCING STEEL FRAME

3. HIDDEN FRAME
2. IMPROVEMENT OF EXISTING HOUSING: NEW OPENINGS
2. IMPROVEMENT OF EXISTING HOUSING: BALCONIES

**WEIGHT**: 850 KG  
**DEPTH**: 0.8 M

**WEIGHT**: 450 KG  
**DEPTH**: 1.4 M
2. IMPROVEMENT OF EXISTING HOUSING: INSULATION

\[ \text{Insulation} \, R \, 5.5 \, + \, \text{Wind Isolation} \, R \, 1.5 \, + \, \text{Air Layer} \, R \, 0.17 = R \, 7.17 \]
3. DIVERSIFICATION

37 M2
3. DIVERSIFICATION

37 M²       47 M²
3. DIVERSIFICATION

37 m²  47 m²  57 m²
3. DIVERSIFICATION

37 M2
47 M2
57 M2
3. DIVERSIFICATION

37 M2  47 M2  57 M2  70 M2
3. DIVERSIFICATION

37 M2  47 M2  57 M2  70 M2  80 M2  100 M2
3. DIVERSIFICATION
3. DIVERSIFICATION
3. DIVERSIFICATION: THE EXISTING
3. DIVERSIFICATION: REHOUSING
3. DIVERSIFICATION: LARGE APARTMENTS
3. DIVERSIFICATION: THE PRIVATE HOUSE
MATERIALISATION
BUILDING TECHNOLOGY
STRUCTURE
STRUCTURE

- Paroc Cortex 50mm
- Paroc Extra 200mm
- Viroc fiber-concrete panel 16mm

Rebar #20
Rebar #25
Rebar #08

Wooden planks 19mm
STRUCTURE
CLIMATE CONCEPT
CLIMATE CONCEPT
IMPRESSION
THANK YOU!