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I PROJECT OVERVIEW
1.1 PROBLEM STATEMENT
mapping of the existing
1.1 PROBLEM STATEMENT
mapping of the existing

DATA:

BEDROOM: 5M² /person
KITCHEN: 5.7M²/8person
BATHROOM+TOILET: 5M²/8person
LIVING ROOM: 10M²/8person
1.1 PROBLEM STATEMENT

mapping of the existing

EXISTING AZCS

lack of HOUSING

lack of PRIVACY

lack of FLEXIBILITY

lack of COMMUNITY
How to create a fast constructed transformable room system for asylum seeker community?
1.1 PROBLEM STATEMENT

EFFICIENCY  FOR BUILDING SPEED
PRIVACY  FOR INDIVIDUAL
FLEXIBILITY  FOR FAMILY
AFFORDABILITY  FOR GOVERNMENT
QUALITY  FOR RESIDENTS
DURABILITY  FOR USERS
SUSTAINABILITY  FOR ENVIRONMENT
1.2 TRANSFORMABLE & FLEXIBILITY

![Diagram showing different levels of transformation and flexibility in space usage over time and space dimensions.](image-url)
1.3 DESIGN IDEOLOGY
II. TBOX SYSTEM
2.1 PREVIOUS DESIGN

5M² VARIATION

bedroom

5M² VARIATION

lighting

5M² VARIATION

kitchen

5M² VARIATION

toilet+bathroom
2.1 PREVIOUS DESIGN

- BONE SYSTEM
- INBETWEEN SHELVES
- LADDER
- FREEFOLDING CHAIR
- MURPHY BED
- WOODEN BOTTOM SUPPORT
- SLIDING WALLSYSTEM
- DOWN-FOLDING TABLE&SHELF
EVERYROOM STRUCTURALLY SEPARATED

BETTER ACOUSTIC EFFECTS
2.2 STRUCTURE DEVELOPMENT

minimum room dimension
2.2 STRUCTURE DEVELOPMENT

easy combination in two direction
2.2 STRUCTURE DEVELOPMENT
2.3 SEPARATION PANEL SOLUTION

ROOM SEPARATION PANEL:
- easy removable
- less storage
- cover the gap
- lightweight
### 2.3 Separation Panel Solution

<table>
<thead>
<tr>
<th>Option</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. REPLACEMENT</strong></td>
<td>change the panel directly into a sliding panel when needed. extra panel to cover the vertical gap</td>
</tr>
<tr>
<td><strong>2. FOLDING PANELS</strong></td>
<td>fold the panels into two directions and cover the vertical gap</td>
</tr>
<tr>
<td><strong>3. ROTATING PANELS</strong></td>
<td>rotate the panels into two directions and cover the vertical gap</td>
</tr>
<tr>
<td><strong>4. REMOVABLE PANELS</strong></td>
<td>remove the panel and rotate it into the other direction and cover the vertical gap</td>
</tr>
</tbody>
</table>

- **TWO MUCH STORAGE**
  - UNSURE AMOUNT OF DIFFERENT PANELS
  - EXTRA PANEL

- **SMALL PANELS LESS THAN 30CM COULD ENABLE THE FOLDING OF BOTH SIDES**
  - NO STORAGE
  - NO EXTRAL PANEL

- **TRACKS ON THE GROUND AND CEILING**
  - MECHANICAL SYSTEM COMPLICATED
  - NO STORAGE
  - NO EXTRAL PANEL

- **EASY REMOVABLE NO EXTRA PANEL**
  - NO STORAGE

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2.3 SEPARATION PANEL SOLUTION
2.3 SEPARATION PANEL SOLUTION

plan of the removable panel
2.3 SEPARATION PANEL SOLUTION

section top part

section bottom part

elevation bottom part
2.3 SEPARATION PANEL SOLUTION

section cover for the gap
2.3 SEPARATION PANEL SOLUTION
2.4 INSTALLATION PROCESS
2.4 INSTALLATION PROCESS

timber joist
steel structure
2.4 INSTALLATION PROCESS
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2.5 STANDARD COMMUNITY SETTING
2.5 STANDARD BLOCK SETTING

groundfloor plan
2.5 STANDARD BLOCK SETTING

3 level of space:
- communal space
- group entrance space
- living space

firstfloor plan
2.5 STANDARD BLOCK SETTING
2.5 STANDARD BLOCK SETTING
2.5 STANDARD BLOCK SETTING
2.6 COMPARISON WITH THE EXISTING

NUMBER OF ACCOMODATED PEOPLE (4 groups):
- ground floor: 32
- first floor: 32

IN TOTAL: 64

COMMUNAL SPACE:
- ground floor: 10 m² * 4 = 40 m²
- first floor: 10 m² * 4 = 40 m²

IN TOTAL: 80 m²

OCCUPIED AREA: 366 m²

NUMBER OF ACCOMODATED PEOPLE (4 groups):
- ground floor: 29
- first floor: 29
- second floor: 18

IN TOTAL: 76

COMMUNAL SPACE:
- ground floor: 181.44 m²
- first floor: 25.92 m²
- second floor: 25.92 m²

IN TOTAL: 233.28 m²

OCCUPIED AREA: 440 m²
III. SITE DESIGN
3.1 COMPARISON WITH THE EXISTING
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3.2 TECHNICAL DRAWING

groundfloor plan 1:150
3.2 TECHNICAL DRAWING

firstfloor plan 1: 150
3.2 TECHNICAL DRAWING

secondfloor plan 1:150
3.2 TECHNICAL DRAWING

section a-a
3.2 TECHNICAL DRAWING

section b-b
3.2 TECHNICAL DRAWING

section c-c
3.2 TECHNICAL DRAWING

section d-d
3.2 TECHNICAL DRAWING
IV. CLIMATE DESIGN
insulation layer
winter ventilation
summer ventilation
public acoustic
heating system
V. FUTURE DEVELOPMENT
WHEN POPULATION DECREASE
CHANGE OF THE COMMUNAL SPACE
DECREASING

groundfloor plan after decreasing
DECREASING

firstfloor plan after decreasing
DECREASING

current situation
after decreasing
VI. ALI’S NEW LIFE IN NETHERLANDS
NAME: ALI
GENDER: Male
AGE: 30
NATIONALITY: Syrian
MARITAL STATUS: Married
Ali’s family members
THANKS~