DETOX LIFE SHARING COMMUNITY

A green connector

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INTRODUCTION
Assignment
Future vision
Future Amstel area

RESEARCH
Increase of NEETs
Treatment methods
Project Ambition
Site location

DESIGN
Concept
Individual level
Building level
Community level
Urban level

BUILDING TECHNOLOGY
Material
Construction
Climate

NEET collective living + working social reintegration
ENVISION AMSTEL IN 2100
History of industry production

Creative industry

Multi-functional residential area
ARTIFICIAL INTELLIGENCE

MATERIAL
Present

ARTIFICIAL INTELLIGENCE

MEDICAL TECHNOLOGY
MATERIAL Present

EXPERIENCE Future
AMSTEL 2100

A (P)LEISURE CITY
(P)LEISURE SOCIETY = HAPPINESS FOR ALL?
CURRENT LOWER CLASS

MONEY

FUTURE LOWER CLASS

HARD & SOFT SKILLS

MEDICAL TECHNOLOGY

WELFARE
“Not in Education, Employment, or Training”.
TECHNOLOGY ADDICTION

FAST GROWING TECHNOLOGY

SOCIAL ISOLATION

CHANGE OF EMPLOYMENT MARKET

ROBOTICS

ARTIFICIAL INTELLIGENCE

CLOUD COMPUTING

UNEMPLOYMENT

UNAFFORDABLE HEALTH

POOR, DENSE LIVING CONDITION

LOW QUALITY ENTERTAINMENT

PHYSICAL & MENTAL PROBLEMS
UNAFFORDABLE HEALTH

HUGE NUMBER OF FUTURE NEETS

TECHNOLOGY ADDICTION

CHANGE OF EMPLOYMENT MARKET
How to heal and re-integrate NEETs into future society, by a new architectural typology that offers self-development opportunities and thus improves their physical and mental health?
SKILL TRAINING

COLLECTIVE LIFESTYLE

TECHNOLOGY ADDICTION

CHANGE OF EMPLOYMENT MARKET

LONELY NEETS

UNAFFORDABLE HEALTH

THERAPY
TREATMENT MEASURES

01 Collective living & working as a therapy

02 Green as a cure

03 Separation between patients of different stages
01 Collective living & working as a therapy

- SOCIAL SKILLS
- OCCUPATIONAL SKILLS
- SELF ESTEEM

Source: Foundation House, New York; ReStart, Fall City, WA
Green as a cure

Source: Foundation House, New York; ReStart, Fall City, WA
AMSTEL’S URBAN FARMING CULTURE

1. Sustainability + green environment
2. Collective working to enhance communal bond
3. Economic profits & giving back to society
03 Separating patients of different stages

MOST SERIOUS
STAGE 1

up to 2 years

- CLOSE TO GREEN
- RELAXED ENVIRONMENT
- SMALL RANGE
SOCIALIZATION
Separating patients of different stages

03

MOST SERIOUS STAGE 1
- Close to green
- Relaxed environment
- Small range socialization

up to 2 years

LESS SERIOUS STAGE 2
- Strong sense of community
- Collective working & learning
- Reasonable exposure to public

2 - 6 months

MOST SERIOUS STAGE 1
LESS SERIOUS STAGE 2

2 years

2 - 6 months
03 Separating patients of different stages

MOST SERIOUS STAGE 1
up to 2 years

- CLOSE TO GREEN
- RELAXED ENVIRONMENT
- SMALL RANGE SOCIALIZATION

LESS SERIOUS STAGE 2
2 - 6 months

- STRONG SENSE OF COMMUNITY
- COLLECTIVE WORKING & LEARNING
- REASONABLE EXPOSURE TO PUBLIC

BACK TO NORMAL STAGE 3

/ 

- TECHNOLOGY BEHAVIOR RELATED CLINIC
Project ambition
Future Detox Life-sharing Community for NEETs

Future social housing + welfare

- Two stages of dwellings
- Collective living & working as therapy
- A green lifestyle
PROGRAM SUMMARY

**CO-LIVING**
- Kitchen and dinning space
- Group gathering space
- Playground

**CO-WORKING**
- Collective Learning / working spaces
- Urban farming
- Greenery

**EXERCISING & HEALING**
- Gym and exercising space
- Meditation/relaxation

**MENTAL SUPPORT**
- Therapy room/ consultation room

**GREEN ENVIRONMENT**
Site location
CLOSE TO GREEN
LOW-INCOME GROUP
GOOD ACCESSIBILITY
ACCESSIBILITY & BARRIER

SPORTS & GREEN

RIVER AS A BARRIER

COMMERCIAL & LEISURE

Transit hub
Active traveling route
Water body

23900 m²
512 m
AREA CENTER

Active traveling route
Water body
IN BETWEEN TWO TYPES OF "GREEN ENVIRONMENT"

- Urban Farming
- Various types of Sports Field
- Green Strip
- Garden
- Surrounded by water
- Walking distance to Amstel River
- Urban Farming as local tradition
- Various types of Sports Field

(City map showing urban farming, green strip, and sports field areas.)
Design process
TWO STAGES OF DWELLING
TWO STAGES OF DWELLING

+ 

A PLATFORM AS CONNECTION
SEPARATED BY HEIGHTS
CONCEPT

SEPARATED BY HEIGHTS

SHIFT TOWARDS TWO DIRECTIONS
CONCEPT

SHIFT TOWARDS TWO DIRECTIONS

In between communal housing area & sports field: Different experience
CONCEPT

SHIFT TOWARDS TWO DIRECTIONS

WORKING CORE
MAIN CIRCULATION CORE
PLATFORM AS A WORKING + LEISURE SPACE
INDIVIDUAL LEVEL

BUILDING LEVEL

COMMUNITY LEVEL

URBAN LEVEL

TWO STAGES OF RESIDENTS & WHAT KIND OF LIVING EXPERIENCE THEY NEED

HOW TO INTEGRATE VARIOUS FUNCTIONS

HOW TO BLEND IN THE LOCAL COMMUNITY

HOW TO RECONCILE BETWEEN DIFFERENT AREAS
INDIVIDUAL LEVEL

Two types of collective living units
COMPACT LIVING
+ COMMUNAL SPACE
+ WORKING SPACE

STAGE 2 (LESS SERIOUS)

STAGE 1 (MORE SERIOUS)

VILLAGE
GREENERY
+ COMMUNAL CENTER

COMPACT DWELLING
COMPACT LIVING
+ COMMUNAL SPACE
+ WORKING SPACE
### Ancient History
- Exposure to green + cultivation

### Modern Days
- Western Europe has been suburbanizing strongly since 1965. Virtually all major metropolitan area growth has been in the suburbs.
- Tranquility, an escape

### 1960s
- 1967
  - Denmark: journalist Bodil Graae: families should share childcare duties, is widely attributed with having spurred 50 families to organize Sættedammen

### 1967
- 1976
  - Netherlands: First co-living project. There are more than 300 cohousing communities in the Netherlands (73 mixed-generation and 231 senior cohousing).

### 1976
- 2000s
  - One of the earliest type of collective living

### Future
- Children’s Center for Psychiatric Rehabilitation, Hokkaido
- EFFEK designs ReGen Villages that could produce all their own food and energy
- SPACE10 designed the Urban Village to envision future collective living

### A method for mental recovery
- Sustainable lifestyle
- “Urban utopia”
STAGE 1

LOOSE & RELAXING
GREEN & CULTIVATION

ESCAPE FROM URBAN ENVIRONMENT
HEALING EFFECT FOR MENTAL HEALTH
VILLAGE
STAGE 1 HOUSING

Organized around greenery and skylight towards downstairs

living room that have visual access to outdoor greenery

shared bathroom and kitchen

individual space with sliding door
ORGANIZATION
STAGE 2

More residents

More privacy

Stronger focus on working + learning

 Transitional stage between NEETs’ and normal people’s life
WELIVE 110 WALL STREET, NEW YORK

THE COLLECTIVE, STRATFORD

INDIVIDUAL ROOMS + SHARED COMMUNAL FUNCTIONS
COMPACT DWELLINGS
STAGE 2 HOUSING

8000 mm

2000 mm

3000 mm
4 TYPES OF BLOCKS

- 2m(L) x 8m(W) x 3m(H)
- 3m(L) x 8m(W) x 3m(H)
- 2m(L) x 8m(W) x 6m(H)
- 3m(L) x 8m(W) x 6m(H)
2m(L) x 8m(W) x 3m(H)  
Studio

2m(L) x 8m(W) x 6m(H)  
Studio with working space

3m(L) x 8m(W) x 3m(H)  
Double room

3m(L) x 8m(W) x 3m(H)  
Double room with leisure space

2m(L) x 8m(W) x 6m(H)  
Four persons dormitory

2m(L) x 8m(W) x 6m(H)  
Conventional study space

3m(L) x 8m(W) x 6m(H)  
Sports room
Bed that can be folded into the wall

Storage spaces

Studying space with sufficient natural lighting

Bed that can be folded into the wall
SELF-VENTILATED

Outdoor plantation web

The ClimaRad Sensa V2X

- Control indoor air quality
- Decentralized ventilation
- Heat recovery
- Filtering outside air
- Summer / night ventilation
FREEDOM OF COMBINATION

6m(L) x 8m(W) x 15m(H)

Adding units
Editing units
Blocks align along the water with gaps for light, ventilation and entrance.

Lift up some part of the ground floor for views and connection.

Combination of different units forms an interesting spatial experience and facade.
ORGANIZATION

Central atrium

Living Corridor

Shared functions

Living Corridor

Shared functions

Central atrium

Shared functions

Living Corridor

Shared functions
BUILDING LEVEL

Connecting
different functions
Main circulation core connecting different functions

Platform as a mediator

Loose and scattered

Working core

Communal activities

Residential

Communal

Urban Farming
A journey of a newly arrived NEET...
NEETS OR THEIR FAMILIES APPLY FOR THE HOUSING

MOVE OUT

RECOVER

STAY IN THE COMMUNITY AS SOCIAL WORKER

DIAGONISING

APPLICATION PERMITTED AND NEET MOVES IN

COMMUNAL ACTIVITIES

URBAN FARMING TRAINING

MOVE TO STAGE 2 HOUSING

MOVE TO STAGE 2 HOUSING

STAY IN STAGE 1 HOUSING

NATURE AND MEDITATION
A day in stage 1 village dwelling...
1. SETTLE DOWN IN HIS ROOM

Socialize  
Cook  
Hygiene
2. HEAL IN THE GREEN

- Healing
- Exercise & relaxation
- Gardening & cultivation
3. COMMUNAL LIFE IN “VILLAGE CENTER”

- Group activity room
- Meeting room
- Consultation room
4. OBSERVE DOWNSTAIRS THROUGH LIGHTWELL
Lightwells as visual connector
5. RELAX AT THE ROOFTOP GARDEN

Direct access but with height difference

Walkable glass:
- central gathering space

Green + cultivation

Green + cultivation
Stairs as physical connector
A day in stage 2 compact dwelling...
1. MOVE TO HIS NEW ROOM

More privacy
2. HARVEST & COOK

- Shared Kitchen
- Cultivation Room
- Living Corridor
- Living Room

[Diagram of layout with rooms and corridors marked]
3. ENJOY COMMUNAL ACTIVITIES
4. LEARNING: THE PLATFORM
STRONG SENSE OF COOPERATION
LIGHTWELLS

summer
4. WORKING: THE BIG GREENHOUSE
One structure that combines
FARMING BOX +
MAINTANANCE CATWALK +
CONVEYOR BELT +
SUPERMARKET SHELVES
GOODS TRANSPORTATION CORE

DRONES LANDING

AUTOMATIC TRUCKS PICKING UP
5. WORKING ON THE ROOFTOP GARDEN

1. Greenhouses farming
2. Outdoor garden & farming
3. Indoor LED farming
4. Walkable glass roof
5. The Green Edge
The green edge

Greenhouses farming

Outdoor gardening + Indoor LED farming
Roof garden as a connector of working and leisure
6. GO DOWN TO SERVE THE COMMUNITY

- Main foyer for residents
- Supermarket
- The main foyer for residents
- Smaller foyer
- Workshop
COMMUNITY LEVEL

Welcoming local people into the building
A visit to the building by a local...
Connecting two experiences

LOCAL COMMUNITY

INTERNAL STREET
Allows public to pass through
The place where the local and the NEETs mingle

SEMI-OUTDOOR SPACE
Transitional space between the community green and the sports field

SPORTS FIELD
1. THE INTERNAL STREET
4 Main entrance: Vertical upsliding doors
7 supplementary entrances
Ornamental green combined with cultivation, extended from outside

abundant daylight

air display screen
THREE ZONES

URBAN FARMING SERVICE
- fresh farming product supermarket
- goods delivery
- urban farming + cooking workshop

ACTIVITIES & RECREATION
- exhibition space
- central gathering space

SELF CARE & DEVELOPMENT
- meeting space
- learning space (open for booking)
- communal psychological clinic
Light, view and access to the water side

Vertical green from the cavity

Bike pick up point
GREEN CAVITY

RAINWATER PIPES

VERTICAL GREEN

Hot air going out

Rainwater pipe for watering on each level

25 °C

21 °C

25 °C

17 °C

Cold air from waterfront
2. SEMI-OUTDOOR SPACE
LIGHT WELL
CIRCULAR PLAZAS
MIRROR CEILING
URBAN LEVEL

Reconcile between different areas
CENTRAL GREEN STRIP IS NOT STRONG ENOUGH

BROKEN BY THESE BUILDINGS

UNDEFINED AREA HAS A RATHER CENTRAL POSITION IN THE COMMUNITY

BOUNDARY BETWEEN TWO AREAS

CENTRAL GREEN STRIP IS NOT STRONG ENOUGH
STRONG IDENTITY & CENTRALITY
BUILDING AS A MEDIATOR BETWEEN TWO AREAS
A GREEN BOULEVARD
FILLED UP WITH MORE HOUSING TO ACCOMODATE GROWING POPULATION
MATERIAL & CONSTRUCTION

Natural & sustainable
TIMBER

Warm & relaxing

Environmental friendly

Future construction material
PREFABRICATION

Factory prefabrication
wall, floor, facade panel

Transport
automatic trucks

Site
fitting of panels

Site
fixing building blocks to platform
Rhythm of facade as visual connection
CLIMATE

Smart use of green elements
DIFFERENT TEMPERATURE ZONES

- Residential
- Living corridor
- Communal space
- Greenhouse
- Open/semi-open space
CONCLUSION
- Two types of collective living
- Connecting two stages of residents
- Connecting working and leisure
- An essential part of the bigger community & serving the locals
- A continuation of the green belt
- Reconcile between different areas
HEALING SPACE

WORKING + LEISURE

COMMUNITY CENTER

GREEN CONNECTOR
THANK YOU

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