Oh, its... yellow
EXPERIENCE
1. BIRD HOUSE WITHOUT BIRD
2. OPEN INSECT FARM
3. BEEHIVE OWNERSHIP SCHEME

JOB OFFERING
1. GREEN MANAGER asap
2. BIRD FEEDER soon

MEMBERSHIP PACKAGE
VIP 1+2+3
Flexer 1+2
Preview (free!) 1

CO WORKING SPACE + VERTICAL FREE SPACE!

Oh yeah

Dear hikers,
please bring your umbrella on rainy day as you may get really wet, really.

USERS
ECO-RATING
Lv. 0
Friendly barren
Lv. 1
Playground
Lv. 2
Bosen
Lv. 3
Habitat
Lv. 4
Support
Lv. 5
Research
Lv. 6
Education
Lv. 7
Supply

ECOLOGICAL + CO-
WORKING FUNDING
CREATION
MANAGEMENT
DESIGN QUESTION:

How can the transformation of De Knip improve biodiversity & nature connectivesness in Sloterdijk?

The role of building in biodiversity conservation?
Biodiversity design

1. 7 design considerations
   2. Promote urban ecology
   3. Design toolbox

Promote urban ecology

1. 7 design considerations
   2. Promote urban ecology
   3. Design toolbox

Design toolbox

Facade design toolbox

New facade + walkway

Disconnection

1. Cognitive approach
   2. Emotional affiliation
   3. Infusing responsibility

Infusing responsibility

New facade + walkway

Managed public occupation (lesson from Torre De David)

Vertical urbanism

New working force

Unknown identity & use

1. Vertical urbanism
   2. Managed public occupation (lesson from Torre De David)
   3. New working force

New typology

Public + Private
BIODIVERSITY ALSO HUMAN DIVERSITY
Many love <1km from home
MEDIATING INTEREST
MUTUAL BENEFICIAL DESIGN

PLANNING

ECO IDENTITY

CLUSTER

PROVISION & SUPPORT NAVIGATION

FACADE AS ROOM

HOUSING

URBAN IDENTITY

MODULE

NAVIGATION EXPERIENCE EXPERIMENT

FACADE AS ROOM

EXHIBIT/ INNOVATION

INFILL

SOCIAL ENGAGEMENT (monitor, maintenance, replacement)
ROLE OF BUILDING
HELP IT HAPPEN

POLITICAL SETTING
BUILDING PRACTICE

SCIENTIFIC RESEARCH  (+,+)  EVERYDAY ACTION

BIODIVERSITY CONSERVATION

SOCIETAL VALUE
ROLE OF BUILDING
HELP IT HAPPEN
MAKE

POLITICAL SETTING

EVERYDAY ACTION

BIODIVERSITY CONSERVATION

SCIENTIFIC RESEARCH

(+,+)

SOCIETAL VALUE

Engaging

Seeing

Whats working whats not?
1. NATURE DESIGN
   animal as human design toolbox
   Eco landscape design

2. ECO- LANDSCAPE
   Private-public typology
   Multi layer space
   Flow & movement

2. ECO- EXPERIENCE

MULTI LEVEL NATURE INTEGRATION
I. ANIMAL AS HUMAN

Anthropomorphism(n).
When we start to see animals like human users, and built environment as landscape
De Klif animal user

Solitary Bee  Honey Bee  Butterfly  Cricket

House Sparrow  Nightingale  Great Tit  Wood Pigeon

Falcon  Bat  Swift

Falcon  Grey Heron  ???
**MORE THAN JUST NESTBOX**  
Daily routine | activity

<table>
<thead>
<tr>
<th>Housing</th>
<th>Activity</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Housing Icon" /></td>
<td><img src="image" alt="Activity Icon" /></td>
<td><img src="image" alt="Support Icon" /></td>
</tr>
</tbody>
</table>

- **Temperature Humidity**
- **Lighting acoustic**
- **Temperature Humidity**
- **Lighting acoustic**
- **Temperature Humidity**
- **Lighting acoustic**
- **Temperature Humidity**
- **Lighting acoustic**

**CONDITION**

- Nesting/ breeding can occur in all seasons

**TYPE**

- Formal opensheltered
- Informal
- Work space

**Focus Inspiration**

- Housing
- Activity
- Support

**Overwinter**

- Overwinter
- Overwinter
- Overwinter

**Maintenance**

- Maintenance
- Maintenance
- Maintenance

**Support**

- Support
- Support
- Support

**Value**

- Value
- Value
- Value

**Inspection**

- Inspection
- Inspection
- Inspection

**Harvesting**

- Harvesting
- Harvesting
- Harvesting

**Winter nursing**

- Winter nursing
- Winter nursing
- Winter nursing

**Nesting/ breeding**

- Nesting/ breeding
- Nesting/ breeding
- Nesting/ breeding

**Dormant Growth**

- Dormant Growth
- Dormant Growth
- Dormant Growth

**Roosting**

- Roosting
- Roosting
- Roosting

**Breeding/ nesting**

- Breeding/ nesting
- Breeding/ nesting
- Breeding/ nesting

**Nursing**

- Nursing
- Nursing
- Nursing

**Active Hibernation**

- Active Hibernation
- Active Hibernation
- Active Hibernation

**Nestbox Type**

- Nestbox Type
- Nestbox Type
- Nestbox Type

**Nesting/ breeding**

- Nesting/ breeding
- Nesting/ breeding
- Nesting/ breeding
TERRITORIAL COMMUNITY
Niche of vertical landscape
VERTICAL LANDSCAPE

You see building differently, has an identity
DESIGN NORM

Aren't all designs a probability?
# 7 Considerations

1. **The Friendly barren**
   - Animal-friendly and articulated facade for building dependent species.

2. **placeholders**
   - Flexibility for nature to grow, self-organizing and ecological processes to occur.

3. **Inter-**
   - Interaction & Interdependence. Design relationship and draw connections.

4. **Opportunistic**
   - Cross reference materials and re-conceptualize building components.

5. **Multifunctionality**
   - Extra function to conservation typologies for uncertain occupation and idle period.

6. **Hetero-**
   - Variations in scale, type and function.

7. **Human Acknowledgement**
   - The quality and quantity of greenery is positively related to human involvement.
LEVEL SELECT

Lv. 0  Friendly barren
Lv. 1  Playground
Lv. 2  Green
Lv. 3  Habitat
Lv. 4  Support
Lv. 5  Research
Lv. 6  Education
Lv. 7  Supply

* Remark: animals are not guaranteed*
**DESIGN SEQUENCE**

**Yes, animal please!**

**Evaluation**

Site
- green & blue
- Stressor

V Possible to outsource green

**Identity**

Building
- Orientation
- Height

V ecological intense zone below 50 m

**Design scope**

Animal zone accessibility

Nature + Nurture

All nature inclusive design should begin with feasibility evaluation
FACADE AS SHELF
Green is not the only attraction for animals, there are also different tools that can make a facade attractive.
NURTURING
Unlock building potential

Lv. 4
Support

Lv. 5
Research

Lv. 6
Education

Lv. 7
Supply

Nature ← Likability → Nurturing

The invisible manager want to become one of us?
**DO YOU KNOW..?**

**Monitor Mainenance Support!**

- **Birds can lose 80% of weight in winter?**
- **Most bee house need relocation in winter?**
- **Only 10% of butterfly babies can survive?**
beneficial human dominated typology in De Knip

Lv. 4 Support
Lv. 5 Research
Lv. 6 Education
Lv. 7 Supply

MUTUAL BENEFICIAL NURSERY DEVICE

Thank you

Im ready to work!

human satisfaction + :)))

biodiversity value

Typology

Twist

OPEN BIRD SANCTUARY

OPEN INSECT FARM

OPEN INSECT FARM

OPEN BIRD SANCTUARY
UPCOMING EVENT

/ Two weeks
Let it fly

Janurary
Move it baby

CURRENT JOB LISTING

Tracker

Green manager

Reward: Satisfaction
OPPORTUNISTIC DESIGN

DE KNIP MODULE x80
6x3m

FACADE SCENARIOS AND COMPONENTS
Concept development: Facade as inbetween territory -> Facade as inhabitable space

2 house sparrow colony
or
4 people, 15 birds?
or
8 People
1. OVERALL: ICON

THE BAT CROWN & THE YELLOW LINE

SECURITY

Glazing sticker

Mesh panel made with recycled metal

Non-toxic

Mesh to reduce vision of movement

+80m High community
2. OVERALL: HUMAN SENSORY JOURNEY

MATERIAL EXPERIENCE - NAVIGATION - PROVISION & SUPPORT

<table>
<thead>
<tr>
<th>Material Innovation</th>
<th>Social Value</th>
<th>Environmental Value</th>
<th>Biodiversity function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biocomposite panel</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Cork panel</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Scrap wood</td>
<td>●●</td>
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<td>●</td>
</tr>
<tr>
<td>Scrap material</td>
<td>●●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Green charcoal</td>
<td>●●</td>
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</tr>
</tbody>
</table>

- Bat house color for NL weather
- High community
- Low community

Lv. 6: Friendly barren
Lv. 1: Playground
Lv. 3: Green
Lv. 2: Habitat
Lv. 5: Support
Lv. 4: Research
Lv. 6: Education
Lv. 7: Supply
DISTANCING REALITY = POINT OF INTERVENTION

28 nature integrated design module
6 types

DISTANCING & Placement of animal activities

De Knip arrangement

Tree crown reference

Typical required clearances

Probability of occurrence

Lv. 6 Friendly barren
Lv. 1 Playground
Lv. 2 Green space
Lv. 3 Habitat
Lv. 4 Support
Lv. 5 Research
Lv. 6 Education
Lv. 7 Supply
3. CLUSTER IDENTITY: BIRD COLONY / WINDOW TYPOLOGY

LOCATION: 9-11F
NUMBER: 6
THICKNESS: 450mm
PROGRAM: SANCTUARY
SYSTEM: FLEXIBLE INFILL
SOCIAL ENGAGEMENT: YES
MAINTENANCE PLAN: YES
VARIATION: YES
SCALABILITY: YES
REPLICABILITY: YES

Application of nestbox product + custom made bird capsule
Variations among the different modules
Trackers added
3. CLUSTER IDENTITY: BEE GARDEN / OPEN FACADE TYPOLOGY

WEATHER TREATED TIMBER FRAME

LOCATION: 5-7F
NUMBER: 8
PROGRAM: GARDEN
SYSTEM: FLEXIBLE INFILL
SOCIAL ENGAGEMENT: YES
MAINTENANCE PLAN: YES
VAIRATION: YES
SCALABILITY: YES
REPLICABILITY: YES

Low community

Insulated interior

(Low community condition)

 Lv. 6
 Friendly barren

 Lv. 1
 Playground

 Lv. 2
 Green

 Lv. 3
 Habitat

 Lv. 4
 Support

 Lv. 5
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 Friendly barren

Lv. 5  Education

 Lv. 6  Supply

 Lv. 7  Supply
NAME: DE KNIF
FUNCTION: HYBRID COWORKING SPACE
OWNERSHIP: PUBLIC/PRIVATE
LOCATION: AMSTERDAM SLOTERDIJK NETHERLANDS
HEIGHT: 82.5m
ORIENTATION: SOUTH WEST
YEAR OF CONSTRUCTION: 2030

PRODUCT USED:

INNOVATION:
2x bat roosting module
[scalable, replication]
contact for further details.

FINDING: (last edited 01/07/2030)
- people are ok with moss growing facade
- honey bee wall is not really working
- birdy zone: green window is more attractive than red

DESIGNER REMARKS:
(last edited 01/07/2030)
Zoomorphism (n.)
Move like animal, interact like animals
ECO LANDSCAPE
URABN ECOLOGY PARK + CO WORKING HUB
PUBLIC SPACE SHORTAGE + FUTURE WORK CULTURE

Sloterdijk The new residential hub
80% residential

Office & School cluster

Regular users
I. Eco-enthusiasts

Flexible users
II. Local community

Visitors
III. Tourist

Go in and go up
PUBLIC & PRIVATE OPERATION

1. membership system subscription

2. Public domain
   Free
   0700-2000
   Extended hour on some days

MEMBERSHIP PACKAGE

VIP
1+2+3

Flexer
1+2

Preview (free!)
1
MULTI EXPERIENCE

A condensed city, rotated

Street  Public program  Individual/ co-working space
ONE OPEN STREET
2.5m continuous balcony
12.8km outdoor route
all year round outdoor experience

1. 250x400 LVL beam
2. 300x 400 damp treated CLT beam
3. Resysta outdoor flooring
4. Metal mesh panel
5. Steel handrail
6. Aluminium plate

A warm start and a warm end
ONE OPEN STREET

2.5m continuous balcony
Social activities

Sensory experience

Afar
A view of De Bretten

Up close
A touch of nature

Above
the iconic bat crown
PUBLIC PROGRAM
3780sqm unique experience
ecology center/ museum/ park/ showcase
Semi outdoor/ indoor

Extend your journey by going in!

Material library
FLEXIBLE display | showcase
BAT center

BIRD museum | library | sanctuary
INSECT farm
BEE garden

indoor
semi outdoor
ECOLOGICAL EXPERIENCE ALONG THE WALL

Bat theatre

Open insect museum

Open bird sanctuary

DIY bee garden
WORKING HUB FOR MULTI COMMUNITY

Membership zone

Machine rental upon request :)

FAB LAB
design & make your plot!

Material lab

ok, we all need people

Individual

Shared

Niche

Generic

Material lab

FAB LAB

Machine rental upon request :)
SHARING CIRCULATION & SEPARATION
THE COMPONENT OF ECOLADNSCAPE

Potential to upgrade, change

[Diagram of a building with labels for fixed, flexible, and flexible options.]

1. Eco-lifestyle & operation
2. A building that will grow
3. A giant shelf
4. Diverse experience
5. A system for progress/evolution
6. Building as a host
7. Physical platform
1. MODULAR ASSEMBLY

2. DOOR MODULE
   SECURITY CARD READER
   GLASS FRAME DOOR

3. WALL STACK MODULE

4. MODULAR SHELF

POSSIBLE REPLACEMENT OPTION

MULTIPURPOSE PARTITION WALL

SIMILAR APPLICATION: POP UP OFFICE/EXHIBITION SETTING

VARIABLE COMPONENTS

Material:
- indoor setting: osb (painted or raw)
- semi outdoor setting: Waterproof treatment
A BUILDING THAT EVOLVE

Tell us what your need.
ECO- EXPERIENCE
10 mins from station, and you won’t be disappointed

We have more trees inside than on the street

Some Instagram moments

Go in and go up
HAPPY LANDSCAPE
IN & OUT EXPERIENCE OF ANIMALS & HUMAN INTERACTION
IN & OUT EXPERIENCE OF ANIMALS & HUMAN INTERACTION
It's stormy!
Ah. that's something
It's warm inside
I wish I can be a bird
hmm. People are doing cool stuff inside
How are you doing today, birdy
Sh.. go away
It's winter time

Food!

What's wrong with it?

ok.

Hi, I'm from 8/f
1. Nature inclusive design become a norm
2. Nature connectiveness by human acknowledgement
3. Co-ownership of building
**NAME:** DE KNIF  
**FUNCTION:** HYBRID COWORKING SPACE  
**OWNERSHIP:** PUBLIC/PRIVATE  
**LOCATION:** AMSTERDAM, NETHERLANDS  

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