

Country /City	
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Academic year	
Title of the project	
Authors	1

Arts, Design and Architecture 2022 / 2023 temporal sports landscapes Eveliina Kunnaton

Title of the project Up and around – Occupying close	sed coal power plant area with temporal sports landscapes
Authors	Eveliina Kunnaton
Title of the course	Design of Special Environments, Studio
Academic year	
Teaching Staff Jyrki Sinkkilä, professor; visitin	g teachers Janne Saario, Sarianna Salminen and Rolf Autio
Department / Section / Program of belonging	Aalto University, Department of Architecture / Major in
Landscape architecture / Master's programme in Architecture, Landscape Architecture and Interior Architecture	
University / School	Aalto University / School of Arts, Design and Architecture



Written statement, short description of the project in English, no more than 250 words

Master's program Studio course Design of Special Environments aims at improving landscape architectural designer skills. Project work introduces participants to the design of artistically, architecturally, functionally or technically demanding commissions. The themes and topics of the Studio vary every year, ranging from cemeteries to the design of amusement parks. In autumn 2022, the studio's theme was the landscapes of physical training and sports. The participants chose both the sport and the site for their own plans.

This project is located in the surroundings of a coal power plant in Hanasaari in the city of Helsinki, Finland. The power plant, representing the industrial architecture of the 1970's and creating an impressive landmark with its 150 meters high chimney, was put out of operation during spring 2023. Closing of the power plant will lead to major changes of the land use of the area, as the city of Helsinki plans to create a new vibrant city district to Hanasaari, starting in 2030's. Drawn from these prerequisites the focus of this project was to explore the temporal use of the power plant area through sports use. The design of the project merges two concepts and sports that complement each other and make use of the existing structures of the power plant as much as possible. In the framework of sports the design discusses the role and value of post industrial landscapes in cities. It also considers how the temporal landscape use influences peoples views of a developing city district.

For further information

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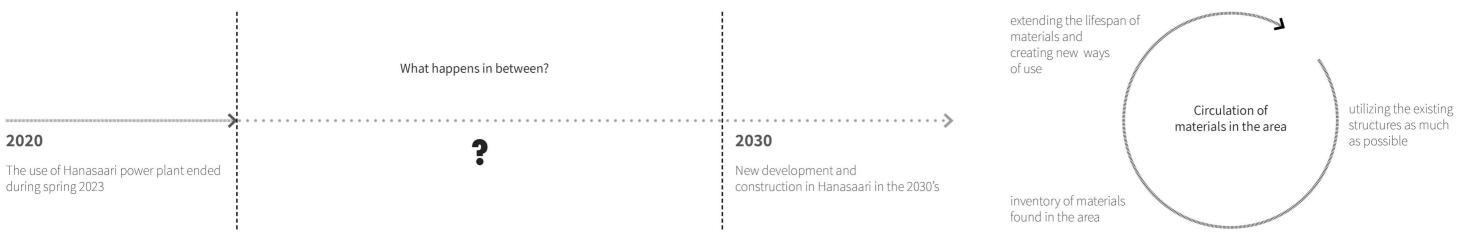
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SCHOOL PRIZE



Circular economy

surfaces.

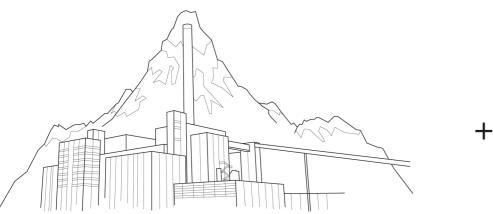


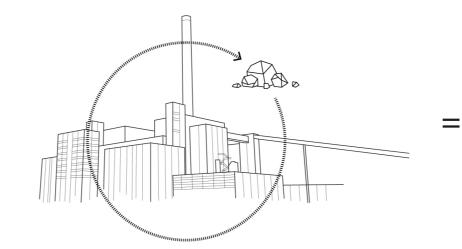
Merging two concepts

Section B-B

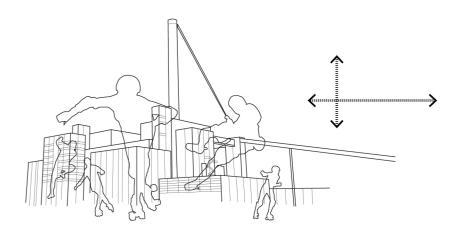
Roller skating rink

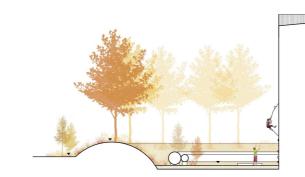
Concept one: The Peak of Hanasaari Emphasises the impressive scale of the power plant and how it creates a far reaching landmark in the city, like a man made mountain. The sport in focus: climbing. Concept two: The Coal Cycle Studies how the power plant has operated and how the coal has circulated in the area during the operation. The sport in focus: roller skating.





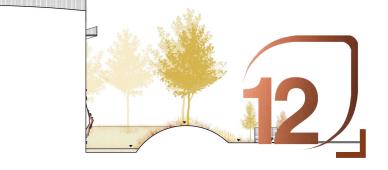
Section A-A Bouldering tanks

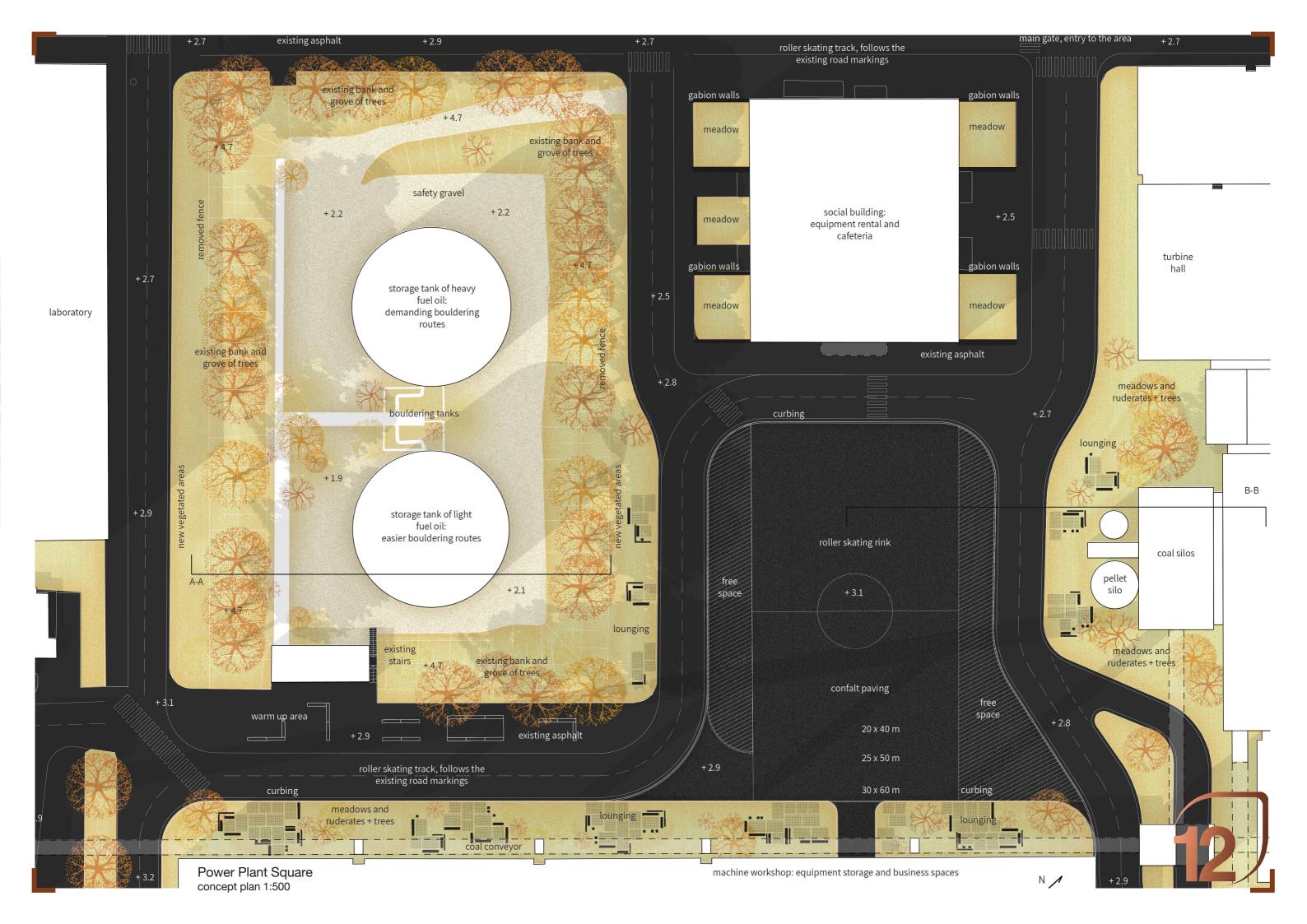


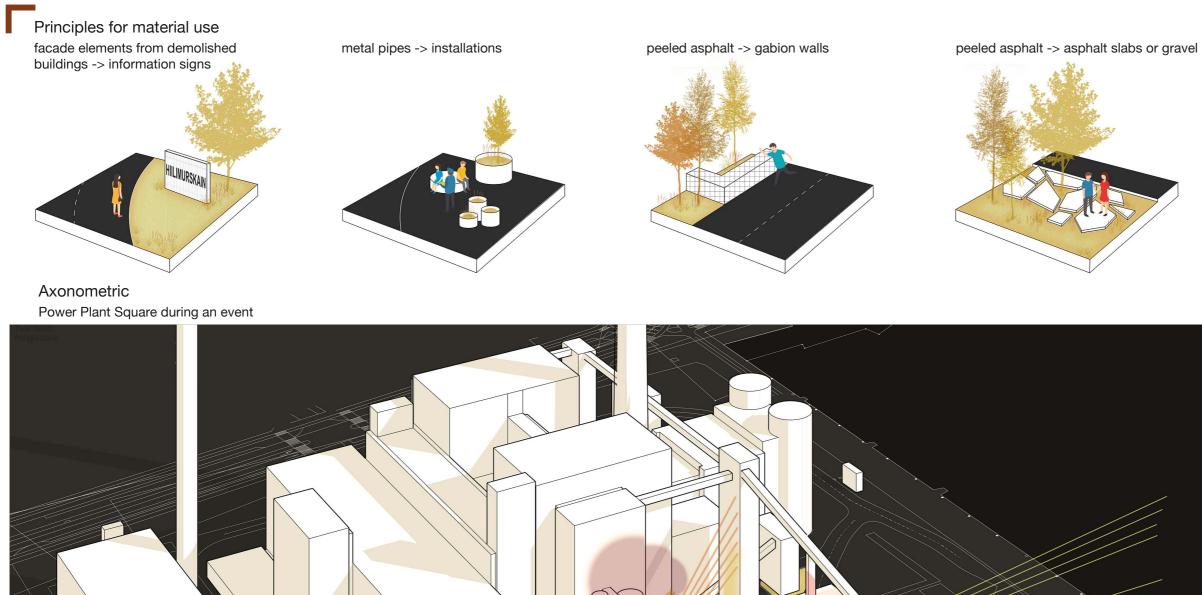


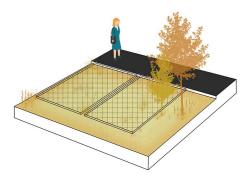
Result: Up and around

Merges together the two concepts that complement each other, climbing occupies the vertical surfaces while roller skating occupies the horizontal













Title of the project	Puddle up! Utilizing restored and constructed wetlands in urban carbon sequestration
Authors	
Title of the course	Landscape Management Studio
Academic year	
Teaching Staff	Ranja Hautamäki, professor; Annaleena Puska, visiting teacher; Emilia Saatsi, visiting teacher
Department / Section / I	Program of belonging Aalto University, Department of Architecture / Major in
Landscape archited	cture / Master's programme in Architecture, Landscape Architecture and Interior Architecture
University / School	Aalto University / School of Arts, Design and Architecture



Written statement, short description of the project in English, no more than 250 words

The master's program Studio course Landscape Management studies strategic planning and management of socio-ecological processes of landscapes. The theme of the course in spring 2023 was carbon-smart urban green infrastructure and its role in climate change mitigation and adaptation and related co-benefits. Students chose a specific theme and site in City of Espoo, drafted a research-based basis for their project and studied how carbon sequestration and storage can be enhanced and combined with climate adaptation benefits and biodiversity outcomes.

The city of Espoo has the goal of being carbon neutral by 2030 and increasing carbon sequestration and carbon storage potential by means of carbon efficient green infrastructure can play a key role in achieving this. This project investigates the potential of utilizing wetlands for carbon sequestration and storing in the urban areas of Espoo, Finland. Based on a review of scientific literature and extensive GIS analyses general guidelines and design principles were drawn up both for the restoration of drained woodland marshes and the construction of new freshwater marshes. These guidelines and design principles were then applied to selected sites in Espoo, as two schematic plans were composed: one for the restoration of an existing drained woodland marsh, one for the construction of a new freshwater marsh to a site of unprofitable farmland. The schematic plans highlight the multiple benefits and ecosystem services that wetlands offer as well as the challenges of finding common ground between the various interests that lie in the green infrastructure of densely populated urban areas.

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SCHOOL PRIZE





New freshwater inland marsh in Latokaskenniitty, Espoo schematic plan 1:200

photosynthesis

0,

dead parts of the plants sink under water and slowly decompose in anaerobic conditions



process diagram

methane decomposes when it reacts with ozone in the atmosphere and as a result carbon dioxide and water are produced

plant respiration

 CO_2

 CH_4

decomposing organic matter causes methane emissions

> carbon storage С

through removing vegetation it is possible to harvest carbon from the normal cycle of the wetland

removing vegetation also reduces methane emissions

mineral soil

Optimization of carbon sequestration and methane emissions in freshwater marshes



Restoration of a drained woodland marsh in Suotorpanpuisto, Espoo schematic plan 1:2000

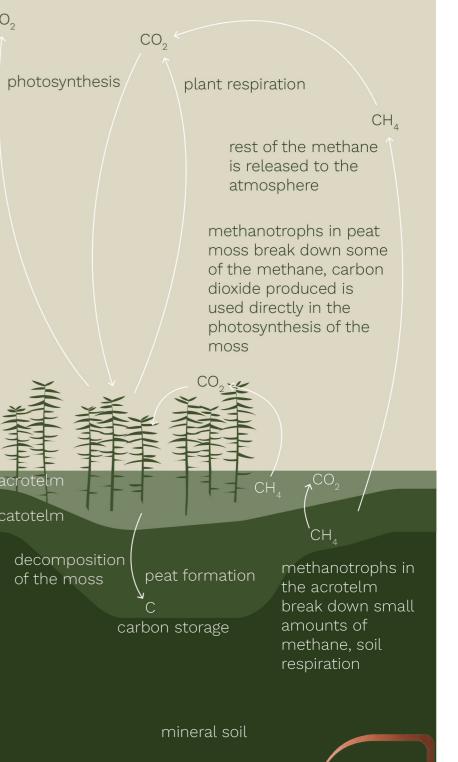
Carbon sequestration and methane release in woodland marshes process diagram

 O_2

acrotelm

catotelm

methane decomposes when it reacts with ozone in the atmosphere and as a result carbon dioxide and water are produced



2







CYCLES

ROTATIONAL GRAZING, NUTRIENT CYCLING, BIOMASS CYCLING, POLLINATOR CYCLING, KNOWLEDGE CYCLING FROM ONE GENERATION TO THE NEXT...

Country /City	
Country /City University / School	Aalto University / School of Arts,
Academic year	1
Academic year Title of the project	
Authors	Jenni Karha





Title of the project		Cycles
Authors		Jenni Karhapää & Lotta Lipsanen
Title of the course		Landscape of Production, Studio
Academic year		Fall 2022
Teaching Staff	Elisa Lähde, Assistant Profess	or; Hanna Hannula & Pirita Meskanen, visiting teachers
Department / Sectio	n / Program of belonging	Department of Architecture /Major in Landscape
Architecture	e /Master's programme in Archite	cture, Landscape Architecture and Interior Architecture
University / School		Aalto University / School of Arts, Design and Architecture



Written statement, short description of the project in English, no more than 250 words

Master's program Studio course Landscape of Production aims at improving landscape architectural planning skills. Project work introduces participants to the planning of complex and functionally demanding commissions, where the aim is economically, socially and ecologically sustainable and fair use of landscape resources and related ecosystem services. The themes and topics of the Studio vary every year, ranging from energy production to the planning of traffic landscapes. In autumn 2022, the studio's theme was the landscapes of food production. The participants produced a master plan for an existing Niipala farm enhancing regenerative food production.

In the coursework Cycles, we explored the principles of the circular economy and applied mutually beneficial socio-ecological cycles into our plan. The production within the organic farm does not generate waste but resources that can be used in other production processes. Nutrients, by-products and food are circulated within the internal farming system. In the process, real local food is produced for the planned Nipala Farm village and for the people living in the surrounding area.

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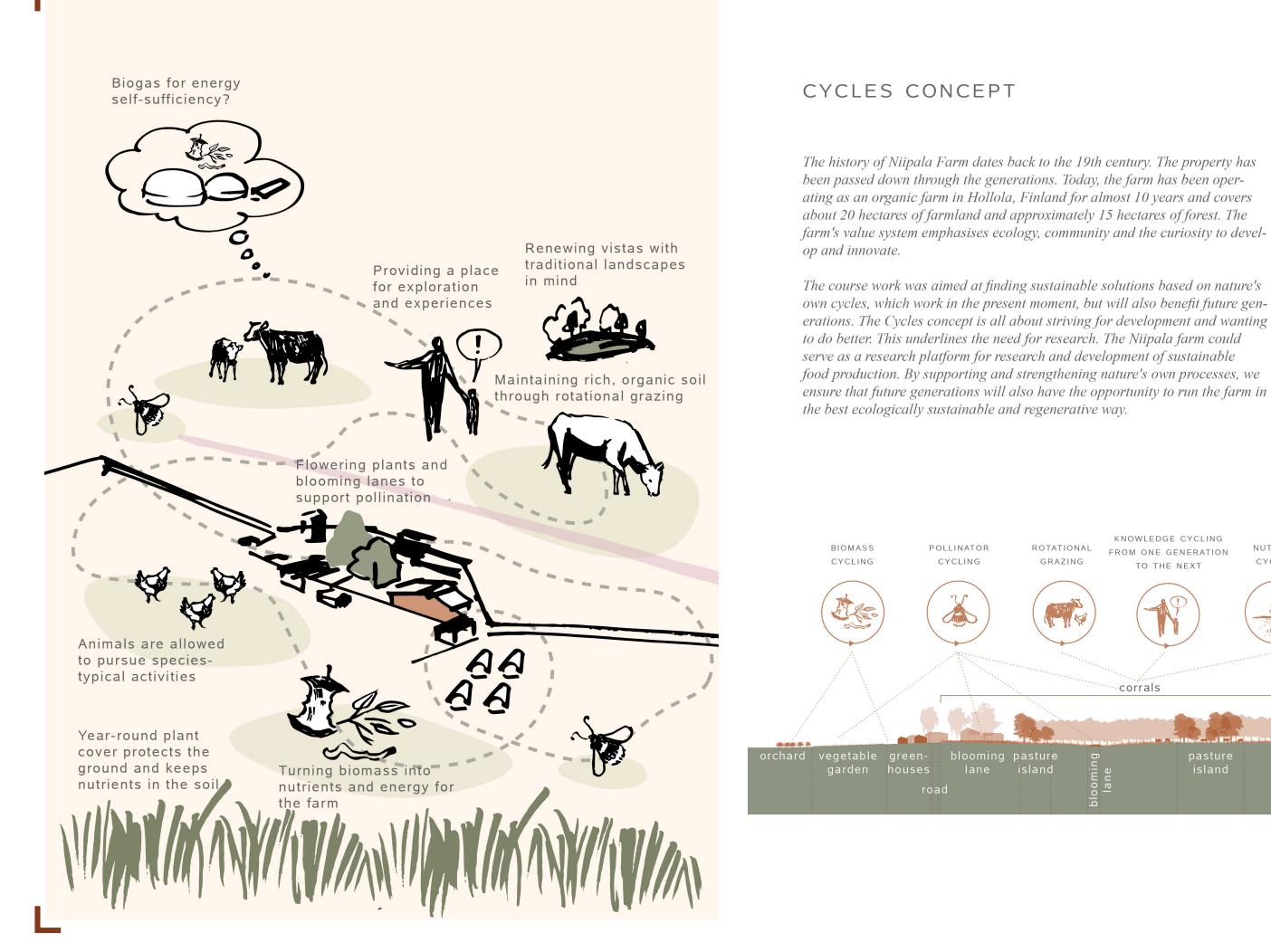
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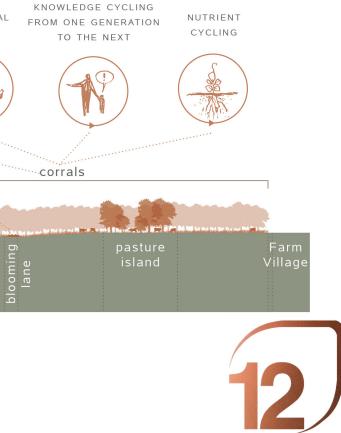
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Barcelona

SCHOOL PRIZE







GENERAL PLAN 1:3000

Pasture island

100 m

VEGETABL GARDEN

orest

- 0,7 ha + 5 greenhouses Habitat: souther
- sunny, coarse sal fine sand The vegetable garde
- is implemented as a permanent bench cultivation, using the "no dig" -method.

ROADSIDES AND

MEADOWS

 Natural vegetation is supported by removing invasive alien plant species and, if necessary, planting new meadow vegetation. In the area indicated by the line, there is room for potential beekeeping, which will : contribute to the fruit and vegetable harvest : while producing honey.

NUT ORCHARD

- 0.6 ha
- Habitat: southern, sunny, sand, coarse sand,
- partly in the groundwater formation area

AREA RESERVED FOR THE FARM VILLAGE

• 5.6 ha

 The road leading through the pastures connects the heart : of Niipala farm and the Farm village. When the road is not in use, the Farm villagers can take advantage of the new route that runs along the edge of the forest. (The site planning for the Farm Village was outsourced to another operator and was not included in this coursework except as an area reservation.)

PASTURES

- 10,8 ha
 - Permanent fence
- - Movable fence (corrals 0,1-0,5 ha) The road that runs through the middle of the pastures is primarily used as a route for moving the grazers. The route is lined with trees. New trees are also planted in the pastures, especially in places where the soil or landforms are more challenging. Trees provide shelter for animals, act as buffer zones for areas where the groundwater is closest to the ground, prevent erosion and diversify the habitat.

BLOOMING LANES

• 0,3 ha

Blooming lanes are primarily for pollinators, but at the same time they provide more appealing and diverse habitat to people and other organisms.

ORCHARD

• 1.9 ha

Farm Village

- Habitat: southwest, sunny, fine sand, clay
- Liming

ALLOTMENT GARDEN

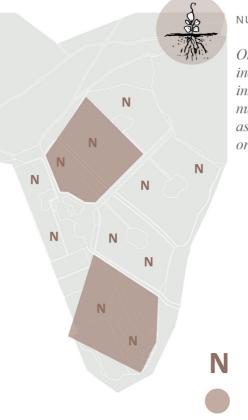
- 1,8 ha
- The slope of the allotment garden is sensitive to erosion. In order to prevent erosion, apple trees have been planted on the slope following the contours of the terrain to bind the soil.

Coming lane

Niipala Farm, Lahti. Finland

ROTATIONAL GRAZING

Rotational grazing improves soil condition and carbon sequestration potential. This provides animals with the opportunity for a good qual*ity of life and species-typical* behaviour.



NUTRIENT CYCLING

Organic farms do not use industrial fertilisers, but instead obtain the necessary nutrients from such sources as nitrogen fixing plants and organic fertilisers.

NITROGEN FIXATION IN THE SOIL

LIMING

X

KNOWLEDGE CYCLING FROM ONE GENERATION TO THE NEXT



Stree .

PASTURE

FOR COWS

MOVABLE FENCE

ROTATIONAL GRAZING

ROTATIONAL GRAZING FOR CHICKENS

The biomass produced by the farm is primarily used as a nutrient-rich compost. It can be utilized in vegetable gardens, for example. Later, the biomass side streams can also be used for biogas production.

> BIOWASTE FROM VEG-ETABLE GARDEN AND FRUIT AND NUT ORCHARDS

MOWING WASTE FROM BLOOMING LINES AND MEADOWS

MOWING WASTE FROM UNDER PERMANENT FENCES

Favourable conditions for

POLLINATOR CYCLING

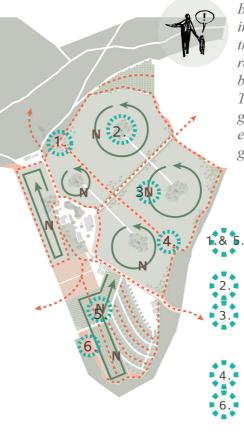
pollinators ensure a productive crop. The priority is to reinforce the natural pollinator habitat. If necessary, a dedicated bee farm can be brought on to the farm.

POLLINATOR FLIGHT PATHS

PASTURES

FOOD PRODUCTION

MEADOWS, BLOOMING LANES, THE EDGES OF FIELDS



SCHEMATIC REPRESENTATION OF THE CYCLES

> By exploring and monitoring farm functions and their transition zones, we can refine our own practices to become more sustainable. This also ensures that future generations have the knowledge and skills to practice good farming.

RESEARCH AND MONITORING TOPICS:

CYCLES TRANSITION ZONES

ANIMAL WELFARE

NUTRIENT CYCLING IN PASTURES AND ORCHARDS

POLLINATOR PATHS

PLANTED MEADOWS

LIGHT IN THE LANDSCAPE OF PYHÄTUNTURI



Country /City	
University / School	Aalto University School of Arts
Academic year	
Title of the project	Light in the L
Authors	Elina
ALL STATE AND A	





litle of the project		Light in the Landscape of Pyhätunturi
Authors		Elina Suksi, Heli Kansanniva
Title of the course		Social-ecological systems, Studio
Academic year		2021/2022
Teaching Staff	Elisa Lähde, associate professor; Vilj	a Larjosto, visiting teacher, Tiina Falck, visiting teacher
•	Program of belonging	Aalto University, Department of Architecture/
Major in Landscape	Architecture/ Master's programme in Archite	ecture, Landscape Architecture and Interior Architecture
	A 11	

University / School

Aalto University/ School of Arts, Design and Architecture



Written statement, short description of the project in English, no more than 250 words

Master's program Studio course Landscape Ecology in Planning aims at improving landscape architectural planning skills. The project work presents planning tasks for architecturally and functionally demanding, ecologically sensitive landscape conditions, where complex ecological processes must be carefully taken into account. The themes and topics of the Studio vary every year. In spring 2022, the studio's theme was sustainable tourism in arctic areas and participants created master plans for Pyhä-Luosto area. By using a social-ecological systems perspective to understand tourism and landscape interactions in northern areas, the aim was to create visions for ecologically sensitive and sustainable future land use.

Studio course work Light in the landscape of Pyhätunturi examines the effects and possibilities of artificial light and natural light in the environment. The goal was to find solutions suitable for the region's sensitive natural environment, which support the region's significant tourism industry. In examining even partially conflicting goals, a socio-ecological framework is employed to illustrate the needs and impacts of humans and nature in the area. Light itself is an intangible experience that can deepen the experience of nature. The changes in light that occur throughout the year and the day at Pyhätunturi are a northern spectacle, visible in the surrounding nature.

Developing year-round turism offers tourists a wider opportunity to hike and experience nature in different seasons, enables business continuity and reduces harmful congestion. The goal is to experience unique light, darkness, and nature based on the context of the place.

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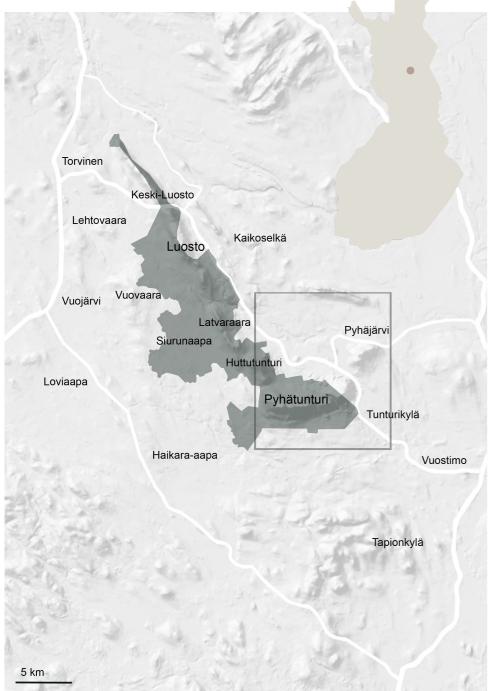
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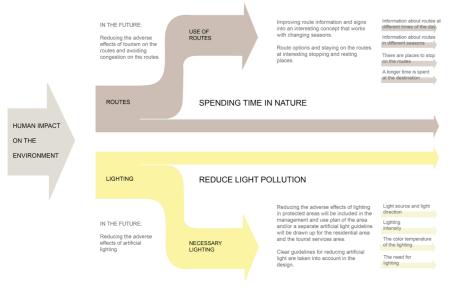
Barcelona

SCHOOL PRIZE



Light in the Landscape of Pyhätunturi













SINGING













SUMMER







Jan

00

30 Maalis

02

04





NORTHERN NIGHT SKY SNOW

Feb March April May Jun Jul Aug

08

06

Amount of light in a year in Pyhätunturi

PASTEL COLOURS

Sep









AUTUMN COLOURS

MARSH LABRADOR TEA

FOG

FROST

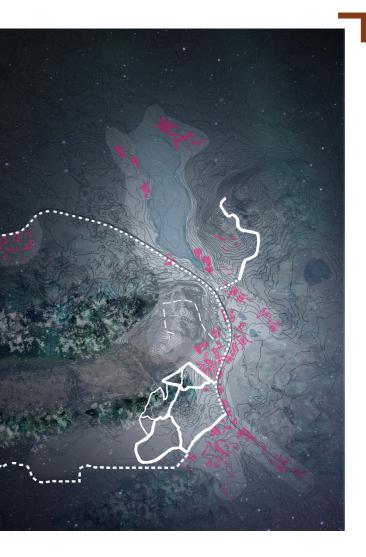




The planned route network in the Pyhä fell area includes carefully selected subtle seasonal and light variations, which can vary in duration from a few hours to several months. In observing light within the landscape, it is crucial to be present at the right time of day and in locations where light or darkness reveals itself in a memorable way according to the season.

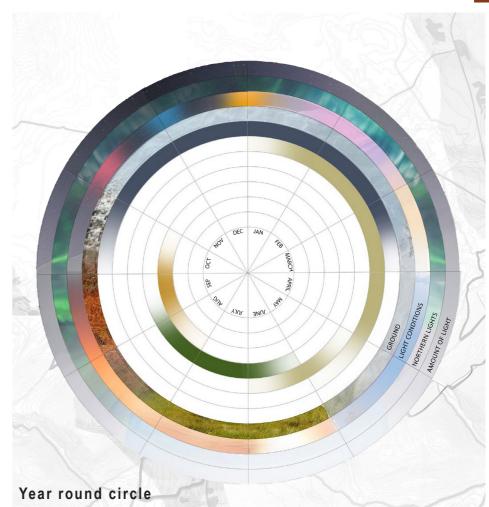
Winter routes

Spring routes









changes in light and landscape.





The schematic route plan is based on the seasons and more detailed

Experiences can be easy-to-reach and pleasant places to stay and go on hikes nearby or adventurous trips further into nature.



Country /City	
University / School	Aalto University / School of
Academic year	
Title of the project	
Authors	Elias Luoto, Linne









Finland / Espoo Arts, Design and Architecture 2021-2022 **Cultivating Kannelmäki** ea Westerlund, Anu Hakola



Title of the project		Cultivating Kannelmäki
Authors		Elias Luoto, Linnea Westerlund, Anu Hakola
Title of the course		Historical Landscapes, Studio
Academic year		2021-2022
Teaching Staff	Ranja Hautamäki, professor; Visiting teachers Lilja Palmgren and Minna Raassina	
Department / Section	/ Program of belonging	Department of Architecture/Major in Landscape Architecture
		in Architecture, Landscape Architecture and Interior Architecture
University / School		Aalto University / School of Arts , Design and Architecture



Written statement, short description of the project in English, no more than 250 words

Master's program Studio course Historical Landscapes studies the cultural heritage of landscape architecture and embedded negotiations between preservation and change. The course in autumn 2021 aimed at re-evaluating the hidden heritage of suburban landscapes under densification and renewal in the Helsinki region. Students chose a specific suburban landscape, drafted an evidence-based program for their project and studied how historical and socio-cultural values can be assessed, strengthened and integrated in planning.

Our group studied the suburb of Kannelmäki in northern Helsinki. After multiple site visists and thorough analysis of the area, we designed a new public space along a raised railway track on the north-eastern side of the suburb. Kannelmaki is characterised by a patchwork of divided historical layers and typologies. Since the no-man's-land around the railway bridge accentuates the feeling of separation, we chose it as our focus area in order to transform a

divisive space into a unifying one.

Our design process focused on enhancing the existing character, and history of the suburb. To use a gardening metaphor, instead of transferring fully grown plants into the ground and hoping for the best, we aimed to cultivate a place from the ground up, using local seeds and giving them optimal conditions to grow. We wanted to create a design that feels like it grew naturally out of its surroundings, and provides fertile ground for the diverse and active communities of Kannelmäki to claim the heart of the suburb as their own.

For further information

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SCHOOL PRIZE



Analysis

In this section, we studied the existing fabric of the varied Kannelmäki neighbourhood.

We researched the history of community and communal activities in Kannelmäki, the strengths and needs of existing communities of the area, as well as the varied built and natural typologies and materials of the existing suburban fabric.

Based on the research, we identified strengths of the existing historical layers, as well as the needs of current residents as 'seeds' forming the basis for our design.

The thorough 30+ page analysis allowed us to generate a design that genuinely contributes to the historical continuity of the area cultivating existing strengths, reintroducing past successes, and learning from past mistakes.

Map and illustrations of existing residents, users, and communities Owner-occupied dwelling Rental apartments

Serviced housing

E





Nature \oplus

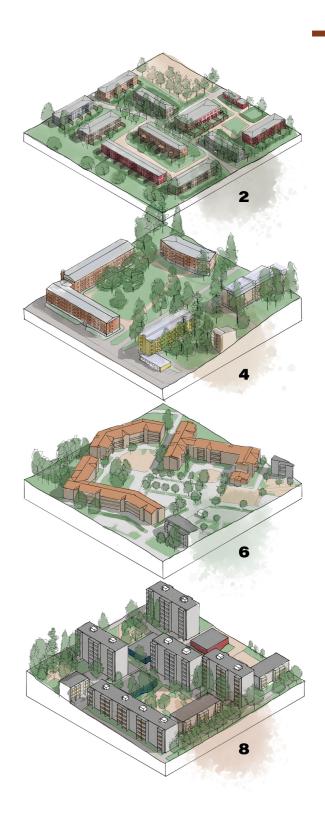


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Building phases \oplus





Axonometric illustrations of existing building typologies

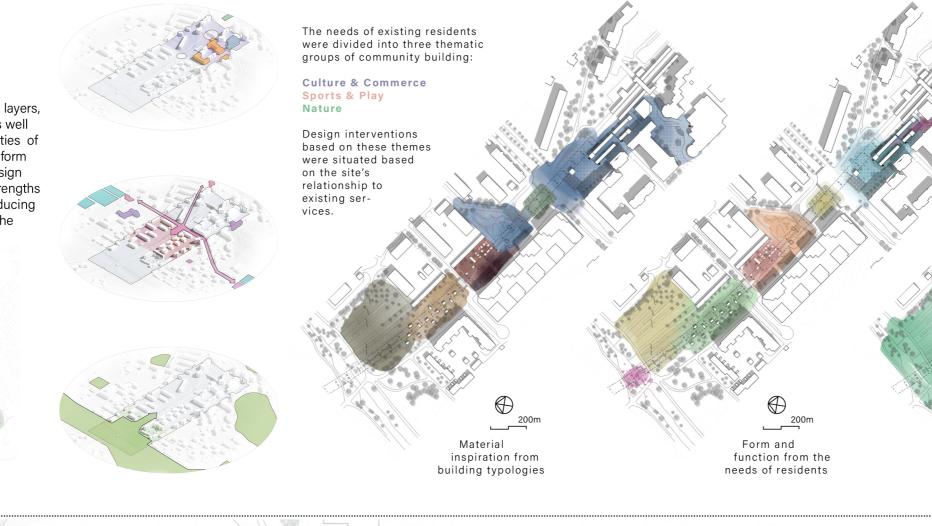


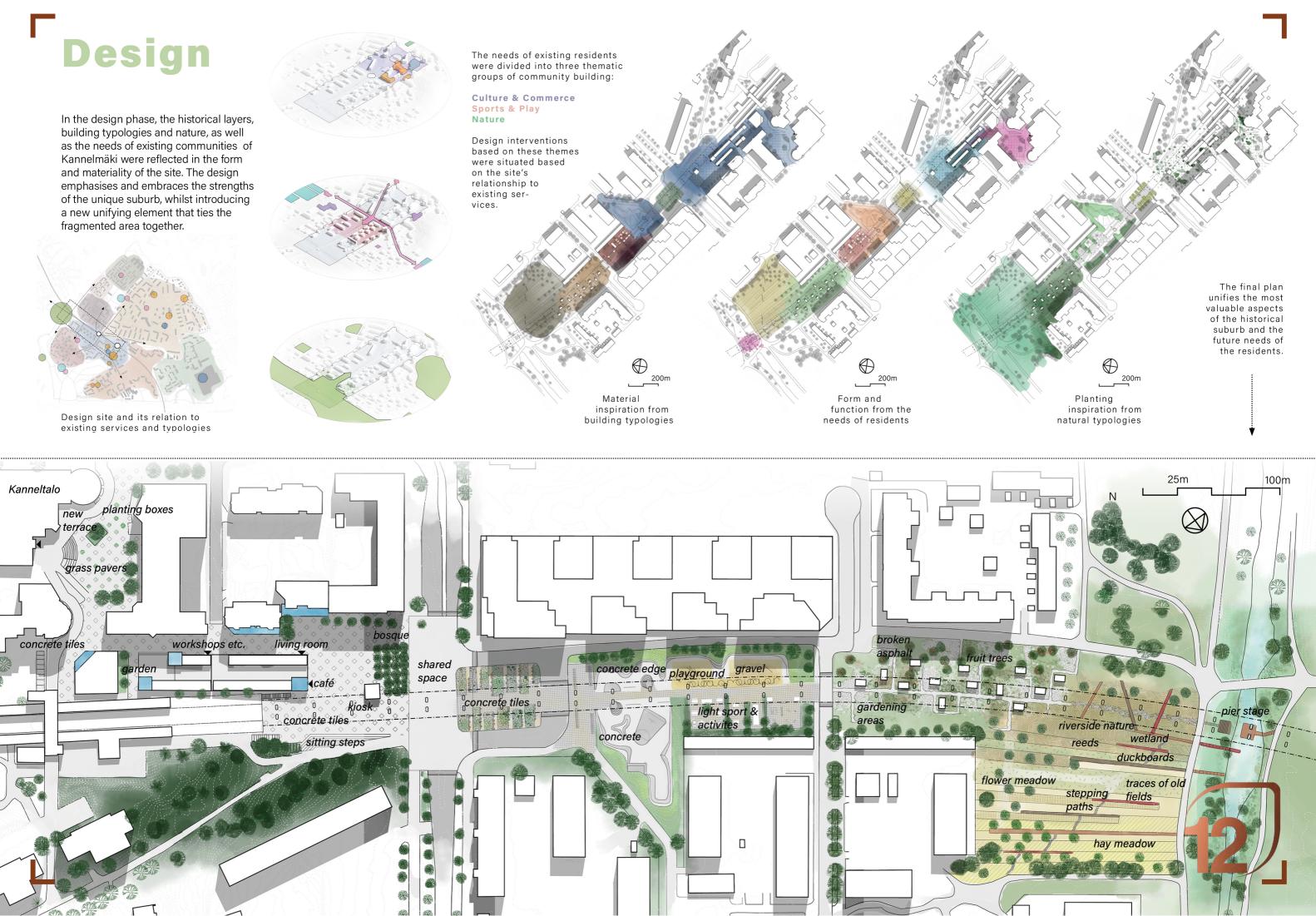


Building typologies

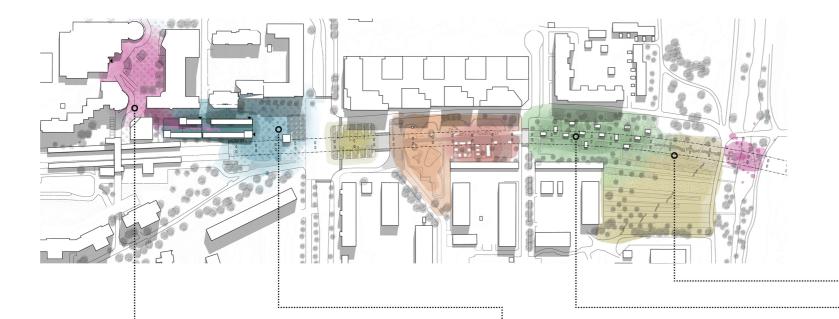
In the design phase, the historical layers,







Interaction & Revision



In the final phases of the development process, the site begins to have a sustainable life of it's own. The designer retreats to the role of an observer, allowing the intangible culture of Kannelmäki to evolve and manifest itself at the new site.

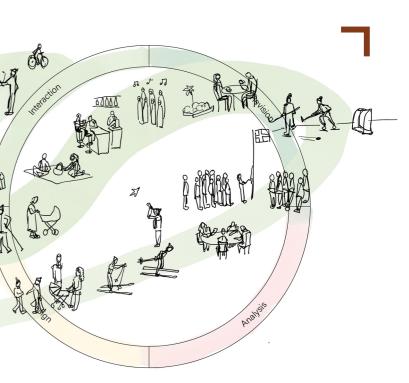
This post-design state initiates a review process where the developed site is analysed, and the cultivation process reiterates, beginning a new cycle responding to contemporary needs.

Culture square and bazaar

Community square

Gardening area





Perspective images illustrating potential use-cases and activities at differnet times of day, week, and year.

Musicians park

