

Traits of NORDIC ARCHITECTURE II

CONTEXT & HISTORY / LANDSCAPE & CITY / TYPOLOGY & ORGANISATION / SPACE & MATERIALITY

Edited by

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CONTEMPORARY
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TAMPERE UNIVERSITY SCHOOL OF ARCHITECTURE

Tampere University, Faculty of Built Environment, School of Architecture. Contemporary Nordic Architecture [*Pohjoismainen nykyarkkitehtuuri*]. Master's level course. Spring & autumn 2021.

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Editors' note: The Contemporary Nordic Architecture course works as an introduction to experimental research methods on the field of architecture. All works are made by master's level students that are in the process of getting acquainted with academic processes and writing, and are presented in this book as such. Due to this the editors wish to note, that some minor errors may appear in the text.

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PREFACE

Introduction Contemporary Nordic Architecture course. Spring 2020

In 1958, Swedish historian Thomas Paulsson published his pioneering and comprehensive book *Scandinavian Architecture*; the first serious attempt to present a unified history of Danish, Finnish, Norwegian and Swedish architecture. Surprisingly, he included Finland as an Scandinavian country even though, generally speaking, it is the term 'Nordic' the one that embraces the proper Scandinavian countries, which share strong historical, cultural and linguistic ties, i.e. Denmark, Norway and Sweden, together with two others, Finland and Iceland, which share just some of the ties mentioned. The course this book portrays adopts the term "Nordic" with the aim to be all-inclusive with all these five countries' architecture. However, Greenland has been left out, although it is also considered a Nordic territory.

The content and outcomes of the Contemporary Nordic Architecture course this book gathers build upon the ideas that triggered Paulsson's book already in the late 1950s. His thoughts have been the mottoes for the course, which has aimed to address and deliver an updated version of what is understood by "contemporary Nordic architecture", taking into account the novel phenomenon that Paulsson traced: a shared history of architecture examples from the refereed countries, starting in the Iron Age and ending in the year when the book was written. His vision was still in force in the 1990s when American Historian Marian C. Donnelly built on Paulsson's work in another book, Architecture in the Scandinavian Countries, as well as the environmentalist approach given by Norwegian architect and theoretician Christian Norberg-Schulz in his book Nightlands: Nordic Building. The big temporary and geographical scope covered by these books allowed Paulsson, and years later Donnelly and Norberg-Schulz, to conceptualise and update the idea of what "Scandinavian" (or "Nordic" according to our labelling) architecture really meant (in the 1950s and in the 1990s respectively) by identifying common features across countries, despite their own idiosyncrasies. Today, in the context of the globalization phenomenon, we have asked ourselves how these communal and differential architectural characteristics have evolved, changed or even disappeared. Likewise, we have inquired if it is still pertinent to refer to such as "Nordic architecture" as an overarching concept.

One of the goals of this course has been to cast doubt on whether there is a clear notion about the label "Nordic architecture" or, otherwise, if it is a mere simplification used for contextual categorisation, namely a taxonomy of buildings within a specific milieu.

At the time when *Scandinavian Architecture* was written, it was very pertinent to address this issue due to the huge attention given worldwide to the work by Nordic modern architects since the 1930s; although, surprisingly, no book had had tackled the issue comprehensibly until then. Equally, in the 1990s, when *Architecture in the Scandinavian Countries* and *Nightlands* were written, the books' content was also proved useful in the context of the advent of postmodern architecture and the need for references to build upon a new architectural era. Similarly, today, we could argue that contemporary Nordic architecture has been as much as influential in the international sphere as their modern predecessors were. Accordingly, we have asked ourselves how the work of our contemporary workmates has transformed the very concept of what has been understood historically as Nordic architecture, what the inherited features are, and what the new ones they have incorporated are, and also, how specifically they have influenced worldwide.

Moreover, we have queried if the historical high average standard of Scandinavian architecture, in Paulsson's own words, "higher than in most countries", remains as such, and if Nordic architecture can be still regarded to be leading the architectural quality standards worldwide within the context of phenomenon such us the climate change and demographic challenges.

In short, we have been curious about tailing the thread of Nordic architecture knowledge, within the context of the Nordic countries and abroad.

The book covers the work developed by the students at the course. Their projects were addressed through four major tasks inspired in a series of thematic lectures that gave an overview of Nordic architecture recent history: from the commencement of the Modern Movement, in the early 20th century, till nowadays. Students in the class, mainly working in groups, contributed to the course outcomes with their own research about the comparison of two selected case studies, each framed withing these temporal scopes.

Project. Tailing the threads of Nordic architecture theories and practices

The aim of the course assignment has been to reflect on how architectural knowledge is produced, transferred, assimilated and transformed, as a product of a continuous and trans-generational transfer of theories and practices within the context of the Nordic countries. For this purpose, the students have constructed an argument through the comparison of two case studies, following the series of sequential tasks explained below. Thus, the projects have aimed to trace how the Nordic idiosyncrasy has permeated in contemporary theories and practices in the specific projects tackled, from which general conclusions can be extracted.

Methodology, tasks and course's dynamics. Context & History. Landscape & City. Typology & Organisation. Space & Materiality

The course has unfolded by following a mixed methodology, comprising lecturebased learning and design-based research, aiming for the students to acquire and to present their knowledge.

The groups of students in the course have made a comparative study of two relevant architectural examples, a 20th century example (from 1920s onwards), and a contemporary one (from year 2000 onwards). Both examples have been assessed from the perspective of the four sub-themes in the course: 1) their relationship with the Nordic context and history; 2) their connection with their physical built environment and natural context; 3) their building typology and their programmatic organization; and 4) their spatial and material characteristics. Finally, there has been a conclusive task, where the students have had the chance to summarize their findings through a small design project.

The analyses have been both graphical (with free choice of the technique) and textual, so the students have had the chance to develop their drawing and verbal skills to address architecture critically.

The assignment has been developed progressively through the following 'playful' tasks, which guided the student's research projects:

-Task 1. Context & History. In this task the case studies have been analysed through an exchange of temporal and/or physical context, shown in a collage or visualization.

- -Task 2. *Landscape & City*. In this task the buildings have been drawn in a different kind of environment than the original one. In some cases, the locations of the two case studies have been swapped.
- -Task 3. Typology & Organisation. Here, the distinctive typological features of the buildings are drawn and diagrammed and, afterwards, they have been overstated.
- -Task 4. Space & Materiality. In this assignment, the façade material has been changed or altered. In some cases, the materiality of the two case studies has been swapped.
- -Conclusion. To wrap up the project, students have drafted an small extension of the two buildings, as a summarising statement of their findings.

The outcome of these tasks developed by each team are shown in the book in two-page spreads, after an introduction to the two case studies at stake. Each group's project is colour-coded to ease their identification throughout the book.

The course's dynamics developed as follows. During the first week, each group of students selected the study cases they were going to work on. In the following four weeks, four thematic lectures were given by one of the course teachers, who leaded the correspondent task. Students worked on their project during the following week. The teacher in charge guided the groups on how to address the specific task and gave them feedback. Students were responsible for searching for the information sources (e.g. bibliography, webgraphy, archives and site visits) aided by the teachers and by the librarians at the Tampere University's libraries.

Professor Ilmari Lahdelma and Associate Professor Fernando Nieto have been in charge of the course held at the Tampere University School of Architecture. Postdoctoral Research Fellow Rosana Rubio was also a teacher in the course, together with University Instructor Mari-Sohvi Miettinen, who also acted as the course coordinator. The German architect Dominik Wach, working at the Swedish architecture office Cedervall Arkitekter, and the renowned Spanish architect Carlos Puente, made invaluable contributions to the course with their lectures and feedback to the students.

Fernando Nieto and Rosana Rubio







"The symbol of the modern times is no longer describe the nature connection of a garden city. 'parks in cities' but 'cities in parks', ie. (Tapiolan kilta Ry, 2021a). buildings in nature. Thus, will the gardens and the plots together with the neighboring unbuilt create a consistently planned area in which one areas merge into a large, united garden city, where man and nature can once again find still be able to enjoy nature and the vastness each other so that the freshness and joy can of the environment (Tapiolan kilta Ry, 2021a). return to cities, from which urbanization had Heikki von Herzen's original idea behind the them nearly expelled."

p. 367.

of designers emerged with new housing and of vast meadow and greenspaces spreading suburb design ideologies (Museovirasto, all the way to the shores of Otsonlahti 2009). The housing shortage of the 1950's was (Museovirasto, 2009). a fertile testing ground for these new ideas that rose from the criticism towards unhygienic, bought from the Hagalund mansion, which crammed "stone cities". The director of the were under the the garden city –like plan made Finnish housing foundation, Heikki von by Otto-Iivari Meurman (1945). The city plan Herzen, wanted to create a new housing area was later developed by Aarne Ervi in the 1960's in which the starting point for all planning with the addition of cultural and commercial - from traffic networks to basic services - elements. (Tapiolan kilta Ry, 2021a). The would be the well-being of the inhabitants. different suburbs of Tapiola host a variety (Tapiolan kilta Ry, 2021a). Tapiola is a "new of housing typologies: apartment buildings, town" -like open and versatile garden city, row houses, lamellar houses, atrium houses, which experiments with these new ideologies chain houses and detached houses, which are and has been titled as a masterpiece of Finnish all freely scattered around each other and the Modernism (Museovirasto, 2009). The name greenery. (Museovirasto, 2009). "Tapiola" was a result of a public competition held in 1953. Tapio is an old Finnish word for the god or spirit of the forest, "the king of the forest". The name was seen suitable to

The aim of the Tapiola city plan was to could live affordably near urban services and architecture of Tapiola was that each separate - Otto-Iivari Meurman 1947, Asemakaavaoppi suburb was to be designed by one single architect. The key aspect of the Tapiola city plan was the consideration of the topography After the second world war a new generation and natural environment and the preservation

Tapiola was grounded on the lands

Photo 1: Tapiola in 70's Photo 2: Planned new Tapiola

TAPIOLA GARDEN CITY INTRODUCTION

TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI

CONTEMPORAR ARCHITECTUR

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TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI

has been planned just for it: the city plan, slabs. Many of its original modernist elements people. (Tapiolan kilta Ry, 2021b). have become mainstream, and their uniqueness can be hard to perceive after all this time. (Sinkkilä et al. 2019, p. 138)

of Tapiola are seen as outdated or somewhat less focus on careful planning, a scattered Tapiolas preservation through the idea of "self-dwellers. (Tapiolan kilta Ry, 2021b). evidency" of the landscape: without a big input of conscious work the most prominent features of Tapiolas landscape could decay; the open green meadows, old trees, forests and the human touch in the flower beds. It is important not to look away and then turn the gaze back when it's too late: some elements can easily disappear for good. (Sinkkilä et al. 2019, p.

From the beginning of the 2000's Tapiola has been a subject of fast big scale development.

Photo 3: Heikintori in 1971 Photo 4: Ainoa

in architectural design. Tapiola is a renowned The aim of this development is the renewal of "complete work of art", every last touch the commercial center to better serve the new "länsimetro", metro line. The development streetscape, parks, gardens, forests, beaches, involves big changes in the traffic connections squares, benches, lighting fixtures, concrete and the construction of homes for over 2000 According to the Tapiolan kilta Ry, the

inhabitants of Tapiola are being concerned over the pace and the scale of the project and feel The shifting values and the like the original values of the Tapiola region contemporary ideals create challenges in the are being ignored: the efficiency and volume preservation of Tapiola's unique landscape and of the real estate development has its roots in streetscape, as many of the fundamental ideals the economic goals of the metro project, rather than the creation of a comfortable residential estranged. For example, the "forest suburb", environment. Like landscape architect Ria which is a starting point of many housing Ruokonen, the inhabitants are concerned of areas of Tapiola, was lazily interpreted in the the maintenance and renovation of the existing future stages of Tapiola's construction. With urban structure: the urban greeneries are being neglected and buildings stay unrepaired. The built environment ended up symbolizing the inhabitants would like the future development disintegration of cities. Landscape architect to be executed through preserving the identity Ria Ruokonen describes the problem of of the cultural landscape and listening to the





The city of Espoo describes the future development of Tapiola through one of its initial values, urbanity, from the perspective of the 2020's. It desires to make Tapiola an increasingly diverse area that brings "excellent commercial services and key public services together" which will be made "increasingly comfortable with high-quality pedestrian and cycling routes and new squares that will serve as meeting places". (Espoon kaupunki, 2021).

We chose to approach this task through a type of self-reflection, to look into the components of the Old Tapiola and the New Tapiola. In our analyses we wanted to dive into the multiple layers of the neighborhood, its history, the different components it consists of and the way all the elements are interlocking and speaking to each other. What is the tone of these conversations? What values have driven and are driving them forward? We decided that we would split Tapiola into bite size pieces and zoom into its different components: housing, commercial environments, cultural environments, area planning and the natural context itself. The approach may be complex, but for us it felt fruitful. Garden cities are formed around many ideals and principles: we were curious to see which ones one could get in touch with.

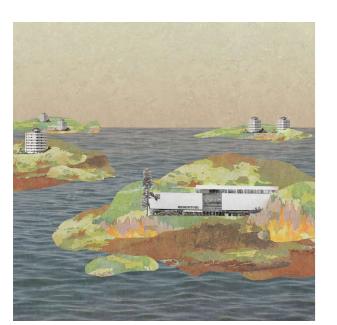
Photo 5: Tapiola in 1971 Photo 6: Tapiola in 1969

CONTEMPORARY ARCHITECTUI

TAPIOLA GARDEN CITY INTRODUCTION TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI CONTEMPORAR ARCHITECTU

TAPIOLA GARDEN CITY

INTRODUCTION



CONTEXT AND HISTORY: HEIKINTORI MEETS AINOA

HEIKINTORI

Architect: Aarne Ervi Location: Espoo, Finland Building finished: 1968 Floor area: 9500 m2

In 1954, a design competition was held in the center of Tapiola, which was won by architect Aarne Ervi. Department store, Heikintori, was built in 1968, based on this proposal. It is considered to be the oldest shopping center in Finland. (Tapiolan Kilta, 2021).

The glorification of America that began in the 70s, was also reflected in Ervi's plans. Heikintori was designed with the idea that people spend their time in the commercial center from morning to night. It was important that the de-partment store included wide range of different activities and services so there would be some- thing for everyone. Indoor aisles were called 'Shopping street of eternal summer'. The aim of the shopping street was to act as a stage for customers' social encounters. (Bonsdorff, 2005).

In our illustration we wanted to study the meaning of a garden city through the abstracation of the nature element. What does nature mean in the context of a city, how does it affect it? What is the role of the nature in relation to the built environment, how would "Tapiola island city" look like?





Picture 7: Tapiola Island City







Building finished: 2019 Floor area: 50 000 m2

Tapiola was initially named in a competition. the name "Tapiola" getting its inspiration from Kalevala, the Finnish national epic, and the ancient Finnish forest spirit Tapio. The new shopping center Ainoa was named after the same idea, as it is described to get its architectural inspiration from Kalevala: the oak paneling details and the egg-shaped squares that gather the shops and services together subtly reflect the national epic (Kauppakeskus Ainoa, 2019). Aino is a character from the Kalevala epic, but unlike "Tapio", Aino is not a spirit: she is a young girl who escapes unfortunate circumstances in her life into the sea and turns into a fish. Aino who local center. was a character created by the author Lönnrot himself, not mentioned in the original folklore which Kalevala is based on.

AINOA was completed in three steps, the first in 2013 and the final completion in 2019. Ainoa is located in a busy traffic hub, and it sits on top of the newly built metro line and a public transportation terminal. The building complex combines commercial spaces, housing and traffic. Compared to the Heikintori mall located next to it, Ainoa seems to strive towards being a center of a larger area, the whole Espoo, whereas Heikintori was a

Picture 8: Bringin nature inside the shopping centre Ainoa Photo 7: Greenery interiors inside the shopping centre



We found the quote "As we are located in the Tapiola garden city, the nature has been brought inside the shopping centre" from Ainoa's website. Looking into imagery of the mall's interiors we struggled to find greenery in the way we comprehend it. We found an image from one of the egg-shaped squares looking three floors down at a small round carpet, with, let's say, a 2 meters diameter. Looking at the image we then started pondering what "bringin nature inside the shopping centre" actually means, what it does and doesn't look like.

TAPIOLA GARDEN CITY

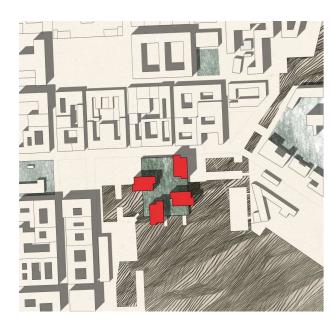
THEME 1: CONTEXT & HISTORY TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI CONTEMPORAR

TAPIOLA GARDEN CITY

THEME 1: CONTEXT & HISTORY

TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI





LANDSCAPE AND CITY ANALYSIS; TAPIOLA MEETS TAMMELA

KAUPPATORI

Planner: J. A. Ehrenström Location: Helsinki, Finland Implementation: 1812

Up until the 1800s Helsinki's Kauppatori was a fishing pier, eventually being designated to be reconstructed as a market and dock following Ehrenström's 1812 city plan (Tyynilä, 2001). Later, around the year 1890, the decision to build a railway track nearby was made, with the train passing underneath the by then busy dockside market (Hieranta and Laurila, 2005).

Transporting Ainoa's rooftop apartment blocks to this site, one can find the same ingredients: a nearby body of water, a rail-based transportation system, and busy commercial activity at your doorstep, a central location. Does the resulting recipe change drastically? Probably. With the harbor flanked by residential buildings, do Ainoa's apartments find a more suitable spot for themselves in an urban rather than rural context?

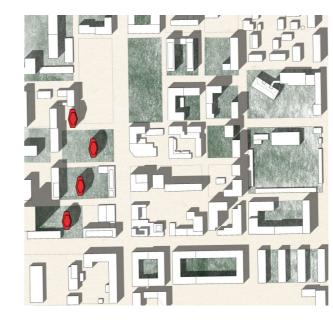


Picture 9: Kirjokansi Apartments in Tapiola Picture 10: Kirjokansi Apartments in Kauppatori









LANDSCAPE AND CITY ANALYSIS; AINOA MEETS KAUPPATORI

TAMMELA

Planner: F. L. Calonius Location: Tampere, Finland Implementation: 1877

Tammela as it can be seen today is a result of rebuilding efforts during the 60s and 70s. Concrete apartment buildings were made (Laurila, 2015) with areas reserved for parks in the modernist style, and though it was built at a similar time to Tapiola with similar values, one can observe vastly different outcomes. For Tapiola nature serves as a backdrop; the homogenous forestry is peppered with modern white apartment buildings. Tammela inverts this, and compartmentalizes the green spaces in accordance to the wider grid that structures the neighborhood.

Taking Tapiola's hip-flask apartments, trees and all, and placing them in Tammela can inject the dense vegetation and different treatment of nature into a more urban setting. What results is a juxtaposition of mixing "manmade" with "natural", and a space where these programs are more insulated.



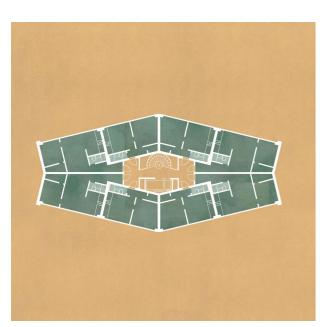
Picture 11: Hip-Flask Apartments in Tapiola Picture 12: Hip-Flask Apartments in Kauppatori

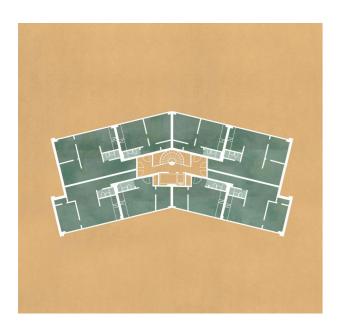
TAPIOLA GARDEN CITY **THEME 2: LANDSCAPE & CITY** TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI CONTEMPORAR

TAPIOLA GARDEN CITY

THEME 2: LANDSCAPE & CITY

TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI





TYPOLOGY & ORGANISATION: TASKUMATTI

TASKUMATTI Planner: Viljo Revell Built: 1958-1961

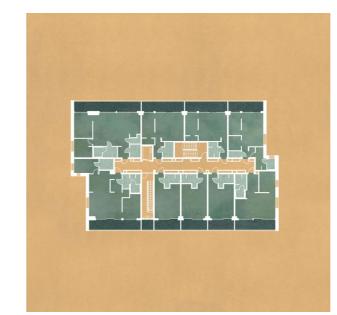
True to modernism the buildings stand like ships in the nature. The buildings have a convex shape to maximize the amount of sunlight entering through horizontal ribbon windows. The floorplans are efficient with staircases in core of the building mass and the apartment entrances twisting around it. The unique wing-shaped roofs bring a special touch to the skyline of Tapiola. Despite the urgent need of dwelling during the time of construction the goal was to provide living comfort through looser distances and following the example of garden cities. The goal seems to be reached quite well, Tapiola is still well known for its quality living.

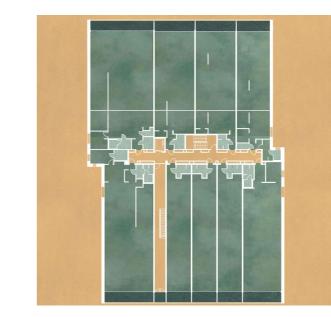
maximize how much light each apartment sunlight. receives. In reality, however, hip flasks have an arching shape that can't be achieved by the mirroring approach of the original spatial layout. By translating the apartments downward, instead of reflecting the same residential unit, we can achieve this crescent shape to interesting effect. The funnel shapes of the entry ways are eliminated, as well as the awkward angles in the storage spaces, and the core is given a more secondary quality.

Picture 13: The floor-plan of Hip-Flask Apartments Picture 14: The modificated floor-plan of Hip-Flask Apartments



The hip-flask (Taskumatti) apartments
Compromises exist as well, as some kitchens of Tapiola get their moniker from their unique now have uneven shapes, and the southern shape, which features convex facades to façade now doesn't get as much exposure to





TYPOLOGY & ORGANISATION: KIRJOKANSI

KIRJOKANSI Planner: Arkkitehdit SARC Built: 2017

> The mimicking of Kalevala aesthetic continues from the mall to dwelling, but mostly in written form only. Kirjokansi refers to the sky or sampo of the tales told in Kalevala. On the website of Kirjokansi garden city is mentioned often. Seems like the apartments are sold with the notion of close distance to a special place. The ideal of gaining daylight is approached with big, glazed balconies covering two facades. There is a long corridor dividing the building in two. The blocks are located on top of Ainoa-mall and the roof functions as a yard to residents. The roofs have been inspired by the older Tapiola with an addition of wood.

What was most unexpected in is asymmetrical, which leads to interesting inhabitant's views outside as possible. moments such as the second staircase. One can infer whatever negotiation process may have been responsible for these introductions, but what results is either way a more complicated left-over space to format into dwellings. The walls are mostly concentrated towards the

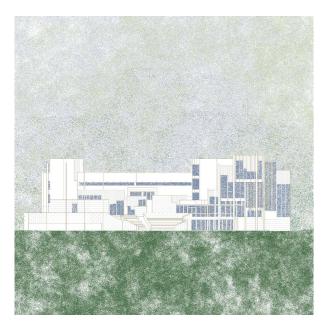
Picture 15: The floor-plan of KirjokansiApartments Picture 16: The modificated floor-plan of Kirjokansi Apartments

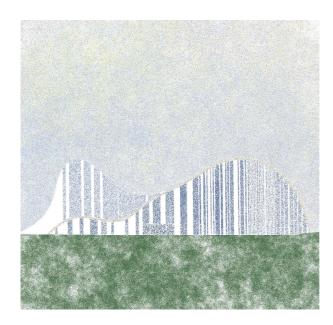


studying the floorplans of Ainoa's apartment core, leaving a more open plan for the living blocks is their almost total lack of symmetry. spaces. To exaggerate this, the apartments are In what is seen as a highly commercial set of elongated to ape the vastness of the interiors, apartment buildings, only three rooms seem to with walls scattered haphazardly throughout to have been copied and pasted, with the other simulate the unequal apartment arrangements. six each having a unique layout. As opposed The structures around the glazed walls are to the previous study, this building's core minimized to ensure as little interruption to the

TAPIOLA GARDEN CITY THEME 3: TYPOLOGY & ORGANISATION TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI CONTEMPORAR

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SPACE & MATERIALITY: MOONS GLADE MEETS NEW MOON

ESPOO CULTURAL CENTRE

Architect: Arto Sipinen Location: Espoo, Finland Building finished: 1986-1989

When Espoo was given a status of a city on the 1st of January in 1972 the decision upon constructing the Espoo Cultural Centre was made. The plot for the cultural house is located near the Tapiola Central Basin, where Aarne Ervi had located a theatre building in the original city plan in 1954. The decision led to an architecture competition, which was completed in 1980. From 60 competition entries the proposal Kuunsilta (Moon Glade) by Arto Sipinen ended up winning. The Cultural centre is a multi-purpose building which hots the concert hall, theatre hall, a gallery, the Tapiola Library, Espoo Music Institute, the Tapiola Citizen's Office and an adult Education Centre. Arto Sipinen had worked at Alvar Aalto's office in the late 1950's, and traces of Aalto's the building.

building's massing and fragmented, vertical terrazzo concrete. architectural elements strongly differ from for the building's unique massing comes from structural solutions: the supporting columns of the foyers are located outside the

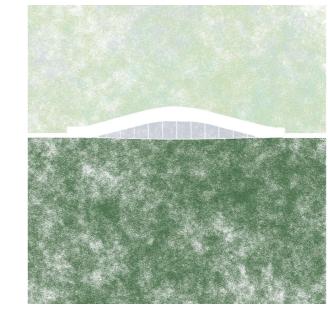
Picture 17: The Espoo Cultural Centre Picture 18: The modificated Cultural Centre

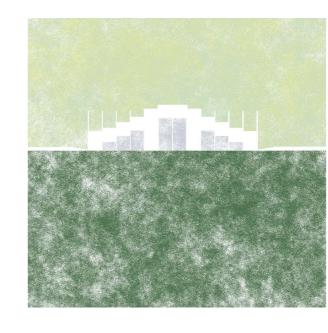


building and attached to the building with beams. The building is still a natural part of its surroundings, as it is linked to the memorable monumental building tradition can be seen in esthetic of Tapiola through the white shade of the facade. The white facade is com-posed The back of the building faces the of brushed white sandstone bricks, travertine Kulttuuriaukio square, and the building opens tiles and glass. The soft interior of the building up and cascades towards the central basin. The contrasts the exterior with the use of birch and

The reimaged cultural center follows Tapiola's building tradition. The main reason the highness and the openings of the orginal one. It is interesting how the building still keeps the monumentality after changing the shape to organic.







SPACE & MATERIALITY: NEW MOON MEETS MOONS GLADE

NEW MOON

Architect: Verstas Arkkitehdit, Arkkitehdit Mustonen, Loci maisem-arkkitehdit Building finished: under furt-her development

The key aim for the architecture competition was to better connect the liveliness of the Cultural Centre to the Kulttuuriaukio square, and better connect the square to its surroundings. (Espoon kaupunki, 2019a) The proposal "New moon" of Verstas uses many of the same architectural components as Arto Sipinen in connecting a particular architectural language to its surroundings through materiality and the handling and activation of the public space.

Spatial functionality and efficiency was a key element in the competition proposal and the evaluation criteria. "New Moon" connects many functions underground to the old cultural centre continuing spatial and functional series. The new theatre which leads of the original Tapiola Cultural Centre, the people in and sinks in the ground and on the reimaged "New Moon" expresses a familiar other hand its roof rises on top of the ground monumentality but differs in a symmetrical to form a strong esthetical element, a white way. (Espoon kaupunki, 2019b). arching shape. The facades of the extension are much more stripped in esthetical elements and could be even said that they are submissive to the original cultural centre. The effect of the building comes through its sculptural, neat shapes. The stripping of details and the big scale of the facade elements seems to be a very typical contemporary way to create architectural language.

Picture 19: The New Moon

Picture 20: The modificated New Moor



To conserve the monumental components

TAPIOLA GARDEN CITY THEME 4: SPACE & MATERIALITY TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI

CONTEMPORAR

THEME 4: SPACE & MATERIALITY

TAPIOLA GARDEN CITY





ADDITION: HOTEL GARDEN CITY

HOTEL GARDEN CITY Architect: Aarne Ervi Location: Espoo, Finland Building finished: 1974

One notable difference between old and new Tapiola is their respective relationships to nature. In the modernist style, Tapiola's old building are placed smack-dab in the middle of the woods or immediately next to bodies of water. The architecture draws from the forests and lakes by being near it and forcing one to engage with the other. Meanwhile, new Tapiola is much more urban and creates its connection to nature through allegory. A wooden column here, a turf grass carpet there, a fountain, a skylight. In more commercial projects, the natural world is bought off-theshelf and brought inside.

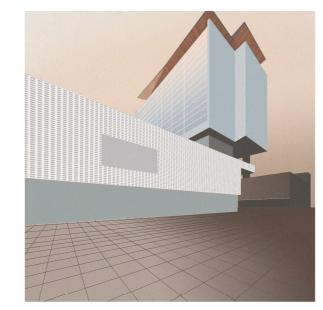
myth to consider as well: the Kalevala. In the drawing, the original Sokos hotel has an addition, with 3 rows appended to the building. 3 is a notable number as it is the number of mills found in the Sampo, and is the number of days Väinämöinen and his possee (together a trio) traveled from Pohjala before the witch caught up with them. The singular column underneath represents a tree, branching out

Picture 21: The Hotel Garden City

Picture 22: The Hotel Garden City with addition



The poetic connections between forms to support the life above in domestic spaces that maximize utility, and the nearby woods (which take up most of the building's volume are the main forms of interactions between and hang past the design's footprint for the built and natural environments. In the case economic reasons). The rhythm of the old of Ainoa, there is the connection to Finnish building is continued, though not unchanged.





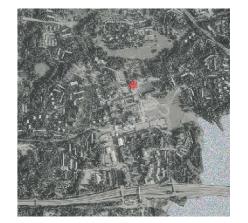
ADDITION; AINOA

AINOA & KIRJOKANSI APARTMENTS

Architect: SARC, Innovarch Location: Espoo, Finland Finished: 2019 -2020

The newest additions to Tapiola are recent, the shopping mall of Ainoa and the apartment buildings located on top of it are branded to fit a certain lifestyle, one that fits the capitalistic values our society currently host.

Making the new addition to an already new surrounding we wanted to look even further to future with a glimpse of posthumanism. The newest layer to new parts of Tapiola is the actual nature playing with the idea of rewilding. In the utopistic future nature has reclaimed it's existence in the manmade environment; pollinators, mycelium, plants, birds and animals are back. While Ainoa was built, previous buildings were teared down and construction site was well known at least for the daily commuters from Espoo to Helsinki. The current way of building should take the environmental aspects more into consideration, not only as pretty words but as actions.



Picture 23: Ainoa and Kirjokansi Apartments Picture 24: Nature takes control of Ainoa

TAPIOLA GARDEN CITY CONCLUSION

TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI

CONTEMPORARY ARCHITECTUR

TAPIOLA GARDEN CITY CONCLUSION

TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI

CONTEMPORAR ARCHITECTUI





CONCLUSION

Diving into the layers of Tapiola we wanted it's hard to notice housing from amongst the probably predicted in some way.

deep diving into certain entities while hopping with restraint from building to building. But in some way we iconic garden city.

brings joy and ease to the everyday lives of the old, lush garden city as its background. Tapiola's residents, to interwove different built connection in different buildings and scales.

nature. In the oldest parts of Tapiola this value prosperity, accessibility, nostalgia. is prominent: from old and new aerial imagery

Photo 8: Hip-Flask Apartments

Photo 9: Building complex planned on the Merituulentie plot.

to understand the tone of their discussions, the trees. The networks seems green, and the driving values. What did we find? Something majority of it is unified into one big green belt old, something new, and some things we had Later in the 60's and 70's when the cultural and commercial part of Tapiola was built and Approaching Tapiola through tasks enlarged, a new typology emerged, perhaps that concentrated on certain specific traits, and almost by accident: parks in cities. The cultural our chosen strategy in doing so – comparing hall, the swimming hall, hotel, central basin and different building types in different occasions – the oldest commercial buildings form a zone had its pros and cons. We went through various which is dominated by light colored paved reflections, and in some way stayed away from surfaces, from which greenery is emerging

As Tapiola continued to evolve, the feel like we dove deep, deep into the underlying idea of "cities in parks" seems to have been themes and a broader context regarding this associated with only the oldest parts of housing areas. The new housing has been built next to, The core idea of Tapiola was to on top and behind the commercial and cultural scatter housing and services effortlessly in the areas, and it has continued with the same surrounding greenery, to create a network that "look" of controlled greenery as a decoration,

In a way it seems like time has stopped and unbuilt environments into something new in the greenest of suburbs: they are staying as and unseen. Our varying zoomings showcased they are, getting greener and greener, as if different meanings of nature and nature sucking the nature "from" the new areas, taking responsibility over being the garden city. The One observation that could be made old Tapiola has become a referral. Something in the transition from the old Tapiola into the one can point at and say "there it is, a garden new Tapiola is the role of values. The core city". What is being done now under the same idea behind the whole architectural thinking flag has a different set of values behind it, of Tapiola was, in Otto-Iivari Meurman's reflecting certain, very different ideas of wellwords, to place cities in parks, buildings in being of the 21st century; the market economy,

Surrounded by old ideals, creating a whole new historical layer, a new interpretation. The question might be, should the new Tapiola call itself a garden city? Should it invent an identity for itself that reflects the difference between contemporary times and the past, rather than trying to create wobbly bridges towards the modernist ideals? Because it is quite apparent that the new Tapiola is something very different from what old Tapiola is.

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Photo9: YIT Finland Ltd. https://www.espoo fi/en-US/Housing and environment/Districts/ Tapiola/The western part of the centre of Tapiol(191886)

TAPIOLA GARDEN CITY CONCLUSION

TUULIA KIVISTÖ. DARA NERWEYI. ESSI NISONEN. SAARA PALMUJOKI



Image 1: The Aalto House by M. Gaudin.



Image 2: Villa Sarvilahti by K2S Architects.

AALTO HOUSE

Architect: Alvar AALTO **Location**: Helsinki, Finland **Building finished:** 1936

Munkkiniemi district of western Helsinki, municipality of Luumäki, near Lake Kiviärvi, was built between 1934 and 1936. Alvar in southern Finland was designed by K2S AALTO lived here with his wife Aino and Architects. The Villa is a second home for two children and stayed here until he died in pharmacist Sarvilahti where he can practice 1994. The single-family House also includes his passions such as hunting, fishing and visual the architect's studio. However, the House is arts. The main concepts of K2S Architects are not only a working space, it is a laboratory the attention to innovative approaches, careful for experimentation in which Alvar AALTO detailing, deep contextual understanding and develops the principles that define his the use of various materials to provide unique architecture and tests his design and furniture spatial experiences. (archdaily.com 2021). ideas. When designing the House, Alvar AALTO places equal importance on human Villa Sarvilahti is integrated between the and functional characteristics. For the architect, trees of the hillside, overlooking the estate "a good house must improve the quality of and enjoying a breathtaking view of the lake. life of its inhabitants". The main concepts of In fact, the interior spaces are framed on the AALTO'S architecture are attention to the landscape and the terraces create a connection environment through the preservation of the between the interior and exterior spaces. The site, natural light through the installation of Villa has a contemporary style reminiscent of large windows, scale, circulation, flow, and Alvar Aalto's architecture, particularly in the the removal of barriers between interior and use of materials. As Aalto had done before, exterior spaces. AALTO uses a variety of K2S Architects have mainly used white color materials in the design of his House. Natural as well as wooden elements on the exterior stone, wood, brick, are used on the exterior of the Villa. The interior is also wooded with and each of these materials interacts with its textile elements that give it a modern and warm surroundings. For the interior, AALTO favors character. (thedesignhome.com 2021). the use of white, wood, metal, leather, textiles, etc, which give the interior space its warm and modern character. (alvaraalto.fi 2021).

VILLA SARVILAHTI

Architect: K2S Architects Location: Luumäki, Finland **Building finished: 2008**

Alvar AALTO'S House, located in the Villa Sarvilahti is located on a hill in the

AALTO HOUSE & VILLA SARVILAHTI INTRODUCTION

SARA ANNALA. MAEVA DIOPUS'KIN. CAMILLE JAN. COLINE NOIRHOMME

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AALTO HOUSE & VILLA SARVILAHTI INTRODUCTION

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Image 3: Aalto House located in the context of the Marina Bay Singapore in the 21st century. First original image by E. Ingervo & P. Ingervo. Second original image by S. Annala. Altered by authors.

AALTO HOUSE

and has elements of functionalism. The design modern architecture. The architects designed of the Aalto House emphasizes the use of every detail and piece of furniture in the House, natural light and breaks down the barriers which is evidence of an omniscient architect's of interior and exterior spaces. AALTO pays role. (alvaraalto.fi 2021). great attention to detail and he was one of the first architects to take these essential elements into account.

natural environment as a starting point for the the project seem to blend into the landscape. design. (navi.finnisharchitecture.fi 2021).

and working. The façade close to the street, the and foreign context. use of natural light and the orientation of the rooms towards the garden show the need to distance oneself from the external context and to create a link with the natural context. The Aalto House is also a very holistic and coherent design, taking into consideration all interior and exterior spaces, materials, furniture and details.

The House combines modern materials and vocabulary with tradition through experimentation with various structural and material ideas. The use of simple and clean

For its time, the Aalto House is very modern materials softens the formal language of

The collage we made is to place the Aalto House in a very dense and modern urban Thus, the Aalto House is a true Scandinavian context. The purpose of this integration is interpretation of the international style of to project the House into the heart of an the time. The Aalto House was designed as a environment opposite to its own. The House is personal House, but also as an architectural thus located in the middle of the Marina Bay of studio for architects in an intact environment. present Singapore. It can be seen that despite This latter point shows the desire to use the its small size, the modern and simple lines of Placed on the riverfront, the House seems to mark the entrance to the skyscraper district. The Aalto House was designed with simple This collage shows how the Aalto House can functions such as a comfortable space for living adapt to the present moment and a different



Image 4: Villa Sarvilahti located in the context of Roussillon in France. A village dating from the 17th and 18th century. First original image by b-europe.com. Second original image by K2S Architects. Altered by authors.

VILLA SARVILAHTI

contemporary Finnish Villa also has hints landscape. Thanks to the collage, the of Aalto through the choice of materials for example, which may be an implication of Villa Sarvilahti is now located in a small century, where architects are trying to build how the Villa could be perceived. However, more ecologically with local materials.

connection to nature, outdoor functions and naturally into this atypical landscape. make the house personal and unique for the inhabitant. (archello.com 2021).

By comparing the two cases studied, we can perhaps analyze whether our homes have shifted from work to leisure. The choices of materials and design of the building were made with durability and sustainability in mind. The walls of the main building are thicker than normal, thermal insulation materials have been carefully employed, and geothermal energy is used as the heat source. All the wood is of domestic origin and wood fiber is used as thermal insulation. The surrounding landscape has been left in its natural state as much as

The Villa Sarvilahti shows how the minimalist possible. The building reflects an ecological and simple approach is still very distinct from approach, respectful of the environment and Nordic architecture after many years. The with a direct relationship with the site and the

Aalto's significant and lasting influence on typical village in the south of France. Placed Finnish architecture. This building is also a in a different context than its own, surrounded good example of the recent trend in the 21st by other older houses, our objective was to see despite a very different context composed of old houses with bright colors, the Villa The Villa still retains Finnish traditions seems to have made a discreet place for itself such as the bath and sauna, which is a great and blends into the landscape. Adjacent to example of combining tradition with today's an old traditional colored house, similarities modern design. The interests and lifestyle of appear. The Villa Sarvilahti seems to want to the inhabitant who hunts, fishes and engages imitate its neighbors without being too visible. in visual arts are reflected in the design's Transported into another era, the Villa fits

AALTO HOUSE & VILLA SARVILAHTI THEME 1: CONTEXT & HISTORY

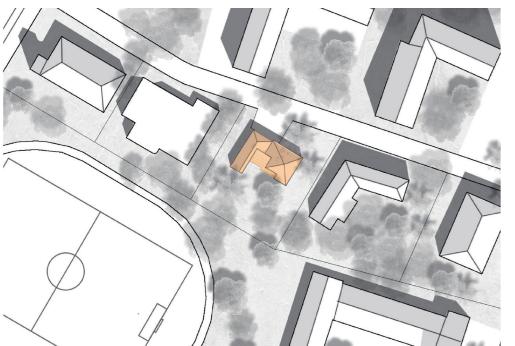
SARA ANNALA. MAEVA DIOPUS'KIN. CAMILLE JAN. COLINE NOIRHOMME

CONTEMPORARY

AALTO HOUSE & VILLA SARVILAHTI

THEME 1: CONTEXT & HISTORY

SARA ANNALA. MAEVA DIOPUS'KIN. CAMILLE JAN. COLINE NOIRHOMME





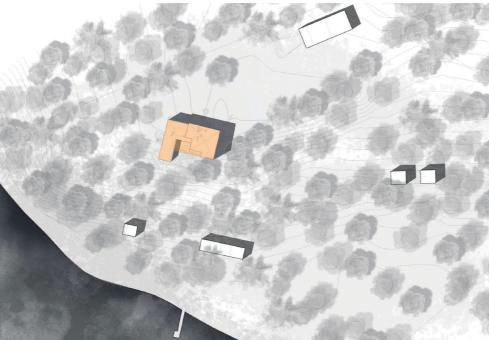
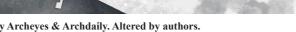


Image 6: Original images by Archeyes & Archdaily. Altered by authors





The Aalto House is located in a residential area in Riihitie in the Munkkiniemi district of Helsinki, which is a medium-density single-family residential area. The area is located on the shores of the Gulf of Finland and the villa is about 400 meters from the perfectly between the two smaller buildings closer to the lake, and the whole building sea. (alvaraalto.fi 2021).

To preserve the privacy of the House, the openings on the street frontage are relatively south, opens generously onto the garden. In its original location, the Aalto House is comparison purposes, we have swapped the locations between our two study cases, environment, it is clear that it was designed specifically for its location. since they are similar in size and shape.

Here, the Aalto House is located on the site of Villa Sarvilahti. On this new site, the

Aalto House is surrounded by nature, water, sloping ground and a lot of empty space. At first glance, one might think that the Aalto House was designed to be here. It fits and its upstairs terrace open nicely to the lake. The Aalto House fits rather well in this new, larger and much less dense environment.

closed and are smaller and more discreet, while the rear of the House, which faces Nevertheless, the location of the terraces, the intersections, the openings and the general composition show how different sites and contexts can be and how much surrounded by a strict coordinate system of rectangular plots and rows of houses. For precise preliminary study is necessary. Although the Aalto House fits well into its new

AALTO HOUSE & VILLA SARVILAHTI THEME 2: LANDSCAPE & CITY SARA ANNALA. MAEVA DIOPUS'KIN. CAMILLE JAN. COLINE NOIRHOMME

CONTEMPORARY

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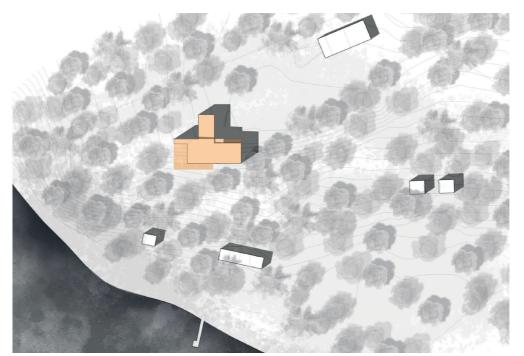


Image 7: Original image by Archdaily. Altered by authors.

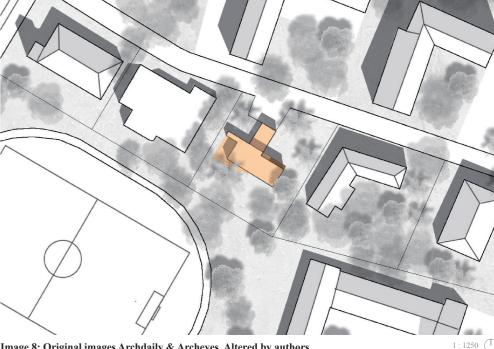


Image 8: Original images Archdaily & Archeyes. Altered by authors.

VILLA SARVILAHTI

The Villa Sarvilahti is located on the shore of Lake Kivijärvi in the municipality of it makes the whole building move deeper into the middle of the site. This creates an Luumäki, Finland. The shoreline is a natural environment that has been left in its overly large front yard and takes space away from the back yard. However, this crossnatural state as much as possible. The Villa is located on top of the hill, which gives it a 360° view and dominates the hunting area. It is located in a forest of tall and thin successfully used separately from the personal home. Almost all of the windows face trees. The Villa is mainly open in the south direction, which is also the direction of the backyard and there are very few windows facing the street, which can create more the lake. In keeping with Finnish tradition, traditional functions such as the sauna and bath are separated from the main building and spread over the area. (archdaily.com creates a quiet entrance and relationship to the front yard. The other main terraces and 2021).

the Villa are similar to that of the Aalto House, which allows it to somehow fit into a nice view of the backyard. The part that intersects toward the street is large, and Villa Sarvilahti to adapt to a new, smaller plot than the one it was designed for.

section has a workspace on the first floor that could be used as a home office and privacy and quiet inside the Villa. The small main entrance terrace on the right side the building itself mainly overlook the neighbor on the left, which is quite unpleasant.

The Villa Sarvilahti now stands in place of the Aalto House. The size and shape of Compared to the Aalto House, it can be seen that Villa Sarvilahti has a harder time adapting to its new location. This is mainly due to the different locations of the the new location. Its horizontal and narrow shape allows almost every room to have terraces and the large intersecting parts. These elements make it more difficult for

AALTO HOUSE & VILLA SARVILAHTI THEME 2: LANDSCAPE & CITY SARA ANNALA. MAEVA DIOPUS'KIN. CAMILLE JAN. COLINE NOIRHOMME



Image 9: Original image by Archeyes. Altered by Authors.



Image 10: Original image by Archeyes. Altered by Authors.

AALTO HOUSE

House.

One thing that is striking about this project is the openings. Again, AALTO took care to place the windows in the right places, each with a specific view of a part of the landscape. It is this precise positioning that allows the interior spaces to be bathed in natural light. Originally, our two case studies had similar elements: few but carefully placed windows and wood siding in addition to the white facade.

We chose to exaggerate the shapes of the houses and similar facade elements such as windows and areas of wood siding. In the Aalto House, we therefore, imagined a much more open façade. Initially, the building was low, and the goal was to see how the project could behave and interact with the exterior with a few extra levels.

So, to further exaggerate our comparison, we also decided to play with the height of the building, extended the wood area and added more windows lined up on top of each other. It is interesting to see how the extra height makes the Aalto House look more like an apartment building or an office building.

Like much of AALTO'S work, the execution We can see that the building looks less delicate of the House's plans reflects a thoughtful and and much more imposing. Also, the multitude ideal arrangement of rooms. This attention to of openings makes reading the volume and detail and desire to create pleasant living spaces spaces more complex. However, the linear is evident in the Aalto House. Therefore, we repetition of the windows loses the initial decided to focus more on the facades of the intention of the carefully studied views from inside the House.



Image 11: Original image by Archdaily. Altered by authors.

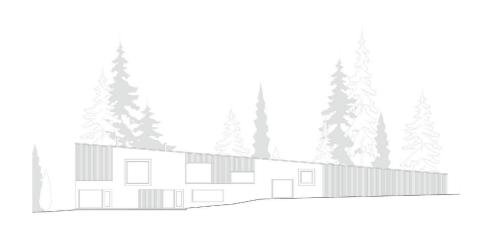


Image 12: Original image by Archdaily. Altered by authors.

VILLA SARVILAHTI

After this first opposition was made, we turned allows it to better cling to the context and to the case of the Villa Sarvilahti. Unlike the the initial purposes. Beyond the comparison Aalto House, the Villa Sarvilahti is located on of the strengths and weaknesses of the two a much steeper site and is set on a gentle slope. projects, these oppositions allowed us to better Like the Aalto House, the Villa also has few understand the volumetry of the houses but openings, but these are also well thought out also to analyze the layout of the spaces and the to open to specific views and are much more openings put in place by the architects. generous than in the Aalto House.

land and make the building seem much more the layout of the rooms between them and to sunken and anchored in its site. To do this, the light that penetrates them. This attention we exaggerated the shape and extended the to detail gives each interior space-specific length of the building. We also duplicated the qualities and a unique atmosphere. wood cladding in different areas of the Villa, which is different from the Aalto House, which extended one area of wood cladding. And finally, we also added more of the three types of randomly positioned windows.

We can see that this modification gives the Villa Sarvilahti a more squashed look but at the same time, it is more hidden in its environment. The repetition of the types of openings and the wooden cladding allows the building to keep an aesthetic coherence while offering other views on the environment. Interestingly, the extra length makes the Villa look more like a public building, a library or a school.

It seems to us that in the face of our two proposed exaggerations the Villa seems to fit better with our modifications. The repetition of the elements in a longer and lower building

After this study, we can see that in both projects, So we decided to play with the slope of the the architects have devoted themselves to

CONTEMPORARY

AALTO HOUSE & VILLA SARVILAHTI THEME 3: TYPOLOGY & ORGANISATION

SARA ANNALA. MAEVA DIOPUS'KIN. CAMILLE JAN. COLINE NOIRHOMME





AALTO HOUSE

wrapped in stained wood slats while the private living spaces are contained within the 2021). white brick volume covered with lime.

The design of this House allowed Aino and Alvar AALTO to experiment with many elements such as structure and materials. Natural light and the orientation of the rooms and terraces were also important factors in the design, which is why the main living spaces open up to the south and the garden. AALTO was very attentive to every detail appear severe and austere, it contrasts with the much more open rear elevation.

The special feature of the Aalto House is that its materiality is directly linked to the In fact, it has been noted that the House is defined by contrasts, from the garden fence, interior layout of the spaces. Designed as both a house and an office, AALTO wanted which delimits the perimeter of the plot, half brick and half wood, to the relative this characteristic to be visible from the outside of the House. Thus, the office is openness of the ground floor to the smaller rooms on the upper floor. (archeyes.com

Through this change in materiality, we wanted to retain the essential characteristics of AALTO'S design. However, we also wanted to see how the House would react to this new materiality that's appearance is harder and colder compared to the original wood. We decided to use corten steel, which colours are similar to those of the wood used for the smaller elements. It can be seen that this modification gives the House and wanted to make the House as warm and welcoming as possible. All interiors are a more contemporary, modern and perhaps even more assertive character. However, meticulously designed and furnished by him. Although the front of the House may although the House remains well integrated we feel that the wood allows it to blend in more with its landscape surroundings.

AALTO HOUSE & VILLA SARVILAHTI THEME 4: SPACE & MATERIALITY SARA ANNALA. MAEVA DIOPUS'KIN. CAMILLE JAN. COLINE NOIRHOMME CONTEMPORARY



Image 14: Sketch by S. Annala. Altered by authors.



Image 15: Sketch by S. Annala. Altered by authors.

VILLA SARVILAHTI

The main Villa Sarvilahti building, plastered in white, is situated on the top of the hill and dominates the site. The two-storey main volume is set into the hillside and appears to be hidden. The single-storey library wing defines the main entrance courtyard. The is placed in its surrounding context, this materiality allows it to blend even more into architects chose to reveal the openings to the passageway with a materiality different the landscape. As the colour of the steel is similar to that of wood, the Villa seems to from the rest of the Villa. The terraces on both floors and the details of the window door frames in solid oak complement the simple volumes of the concrete. One of leaves a singular pilar like in the Aalto House. the characteristics of the Villa is that it is characterised by a palette of sober material choices both inside and out. The materiality of Villa Sarvilahti is visually very similar to the Aalto House. We therefore chose to use corten steel here too in order to compare the two cases. (archdaily.com 2021).

We covered one of the Villa's volumes totally with corten and created a larger part that pushes outward. This is similar to the Aalto House's corten part and makes a

Image 16: Sketch by S. Annala. Altered by authors.

stronger link with the two cases. This addition may at first seem very conspicuous and give the Villa a much more assertive and severe character. However, when the Villa disappear in the middle of the forest. We also deleted one wall from the terrace which

This modification opens up the terrace to the other direction as well and changes the spatiality also. In spite of these modifications, it can be seen that the contemporary elements of the Villa remain very visible.

AALTO HOUSE & VILLA SARVILAHTI THEME 4: SPACE & MATERIALITY SARA ANNALA. MAEVA DIOPUS'KIN. CAMILLE JAN. COLINE NOIRHOMME

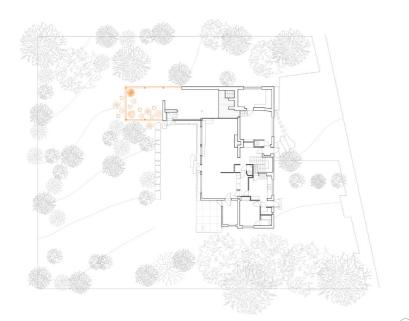


Image 17: Original plan of Aalto House by Archeyes. Altered by authors.

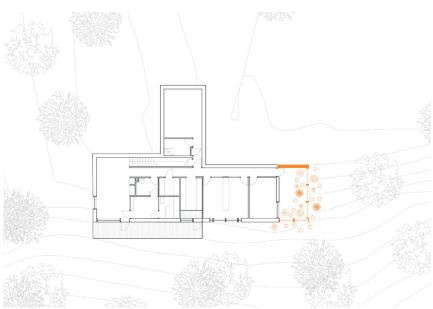


Image 18: Original plan of Villa Sarvilahti by Archdaily, Altered by authors.

SARA ANNALA, MAEVA DIOPIIS'KIN, CAMILLE IAN, COLINE NOIRHOMME

AALTO HOUSE

Alvar AALTO'S studio and office, as well as his the architects have added multiple smaller residence. However, AALTO always separated independent volumes, including the garage his private life from his work, which is why his and sauna, which are scattered throughout the office occupies a separate wing of the building. estate. The main building consists of a large He designed a spacious and bright office that rectangular two-storey volume containing the opens to the outside. The rest of the House main living areas and a second smaller volume is divided into two floors, placing the living containing the library and workspace which areas and amenities on the first floor and the enters perpendicular to the main volume in the bedrooms on the second floor. This conceptual middle. The intersection of the two volumes division of space is also visible on the exterior defines the space of the external entrance through the use of different materials. The courtyard. The majority of the interior rooms office and living areas are cleverly separated open nicely to carefully framed views of the by a sliding door in the living room. It forms surrounding landscape. The architects paid an almost invisible boundary between the two close attention to the site and the relationship parts of the House and allows the space to be of the house to the landscape. To accentuate shaped according to need. Another important this connection with the exterior, the architects characteristic of AALTO'S projects is the have installed terraces on both levels, which perfect relationship of these buildings with the act as a buffer between the interior and the landscape. AALTO considers outdoor spaces exterior. (archdaily.com 2021). to be just as important as indoor spaces. His wife, Aino AALTO, took great interest in the As with the Aalto House, the spaces in the House's garden and transformed it into a warm Villa are very well thought out and fit together and welcoming space. The outdoors became perfectly. Thus, we did not feel it was necessary the family's favourite space. (archeyes.com to add an annex. However, in order to follow 2021). In order to continue this continuity the same approach as the Aalto House and to and to further strengthen the link with the be able to compare our two case studies, we landscape, our addition is to install a winter also chose to extend one of the wings of the garden in the continuity of the wing of the Villa to underline the link between the building House. The aim was to preserve as much of and its environment. Again, the aim was not the project's massing as possible. This addition to distort the overall volume of the project. creates a buffer space between the interior and We, therefore, created a room adjacent to the exterior and creates a dissolved link between guest room, a winter garden that opens onto the two environments.

VILLA SARVILAHTI

Originally, the House was also intended to be Although the Villa consists of two main volumes,

the forest and offers a view from the room.

OVERALL CONCLUSION

The study of these two projects allowed us to understand every detail of the design of the two houses, to compare them and to note their important features. Although they are from two different construction periods, many similarities can be seen. The Villa Sarvilahti appealed to us from the start because of its interior spaces and materiality. The atmosphere that seemed to emanate from it gave it a very familiar air from the Aalto House. It was clear that the two houses are set in very different geographical and historical contexts. Despite this, each was relatively well designed and could adapt to a different environment. Both projects are also revealed by strong facade elements. These elements, although sometimes subtle, contribute greatly to the architectural identity of the projects. The same applies to the materials used by the architects. In particular in the Aalto House, the materials of the facades, beyond being aesthetic, participate in differentiating public and private spaces from the outside. The materials, therefore, play an essential role.

Finally, we were able to see that in both the Villa Sarvilahti and the Aalto House, the relationship with the landscape was a key element in the design of the projects. Each framing generates views and light that give the spaces a particular atmosphere. One might wonder if K2S Architects were inspired by the Aalto House

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Image 2: Archdaily.com, retrieved 20.04.2021 from https://www.archdailv.com/550485/

villa-sarvilahti-k2s-architects?ad source=search&ad medium=search result

Image 3: Alvar Aalto.fi, retrieved 15.03.2021 from https://www.alvaraalto.fi/en/ architecture/the-aalto-house/ & original image by S. Annala.

Image 4: Archdaily.com, retrieved 15.03.2021 from https://www.archdaily.com/550485/ villa-sarvilahti-k2s-architects?ad source=search&ad medium=search result & B-europe, retrieved 15.3.2021 from https://www.b-europe.com/FR/Blog/Villages-Provence

Image 5 & 8: Archeyes.com, retrieved 22.03.2021 from https://archeves.com/theaalto-house-alvar-aalto/

Image 6 & 7: Archdaily.com, retrieved 22.03.2021 from https://www.archdaily. com/550485/villa-sarvilahti-k2s-architects?ad source=search&ad medium=search result

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Image 13 & 14: Sketch by S. Annala

Image 15 & 16: Sketch by S. Annala

Image 17: Archeves.com, retrieved 22.03.2021 from https://archeves.com/the-aalto-housealvar-aalto/

Image 18: Archdaily.com, retrieved 22.03.2021 from https://www.archdaily.com/550485/ villa-sarvilahti-k2s-architects?ad source=search&ad medium=search result projects

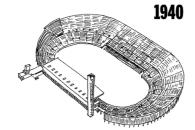
AALTO HOUSE & VILLA SARVILAHTI CONCLUSION

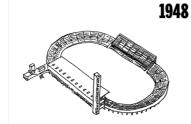
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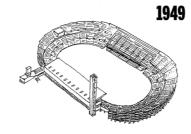
AALTO HOUSE & VILLA SARVILAHTI CONCLUSION

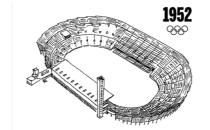
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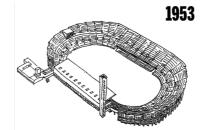


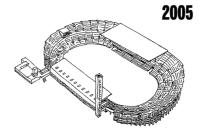


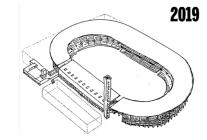














Helsinki Olympic Stadium from 1938. (Unkown author) [1]

Finland's largest arena, the Helsinki Olympic The current general appearance of the in 1934. The stadium was completed in 1938. The Olympic Stadium has been renovated added (Uotila, N., 2020). eight times since its original completion (Uotila, N., 2020). It was expanded already in 1950's as the Olympic Games were moved to 1952 because of the second world war.

Stadium, has a history almost as old as building dates to the 1950's, when office Finland's independence. It is located in the spaces were added and the exterior Töölö district outside of the city center of walls were cladded with wood panels. the Finnish capital city. As the young nation In addition to the 1952 Olympic Games dreamed of hosting the Summer 1940 Olympic the Helsinki Olympic Stadium has served Games, an architectural competition for the as the venue for two World Athletics center of the sports activities was held. The Championships (1983, 2005) and three modern functionalistic design submitted by European Championships (1971, 1994, 2012) the architects Yrjö Lindegren and Toivo Jäntti (urheilumuseo.fi, 2020). The stadium won the competition and construction began undergone a major renovation in 1990-1994 and was again renovated just before the World However, the face of the Olympic Stadium Championships in Athletics in 2005, when has changed considerably during the decades. the canopy covering only the east stands was

> Uotila, N. (2020). Retrieved 17.05.2021 from https://www. finnishdesignshop.com/design-stories/architecture/helsinki-olympic-stadium

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Helsinki Olympic Stadium from 2020, (Wellu Hämäläinen) [2]

THE RENOVATED HELSINKI OLYMPIC STADIUM (2020)

In August 2020 the Stadium has been reopened The Stadium was extended with 20,000 square after over four years of extensive renovation meters underground. The architects replaced designed by Kimmo Lintula (K2S Architects) the old bench rows with new individual seats & Kari Raimoranta (Architects NRT). While and added a new canopy which now covers the the Stadium has been renovated with great stands almost entirely. Also new entrances to respect towards the original architecture, it has the stands and the public galleries under the also undergone great changes to meet the 21st structures ensure the free flow for the public century's standards for a multipurpose arena. The conservation respected and preserved the original 1930s and 1950s architecture. It was also a goal to use materials which are (toposmagazine.com, 2020).

the conservation and the revitalizing of the built merge smoothly into the existing parts of stadium respond both to all future requirements the building (K2S architects, 2020). of international sports events while preserving cultural values of the heritage. As it remains instantly recognisable, the Stadium is now more comfortable, more accessible, and more functional as its needed these days (toposmagazine.com, 2020).

during the events (K2S architects, 2020).

attached to the history of the stadium: white It was important to ensure that as well the concrete, wood, and glass in the new parts

> Marketing and Communication Olympic Stadium Helsinki (2020) Retrieved 17.05.2021 from https://www.toposmagazine.com/helsinki-olympic-stadium/

> Pintos P. (2020) Retrieved 17.05.2021 from https://www. archdaily.com/950755/helsinki-olympic-stadium-k2s-architects-plus-architects-nrt

HELSINKI OLYMPIC STADIUM (1938 AND ITS RENOVATION FROM 2020) INTRODUCTION

IYKKE LEENDERS, KATEŘINA MIISÍLKOVÁ, FABIEN SIGRIST, EMMA COLIN

CONTEMPORAR \RCHITECTUR

HELSINKI OLYMPIC STADIUM (1938 AND ITS RENOVATION FROM 2020) INTRODUCTION

LYKKE LEENDERS, KATEŘINA MUSÍLKOVÁ, FABIEN SIGRIST, EMMA COLIN

CONTEMPORAR ARCHITECTII



Helsinki Olympic Stadium from 1938 in its original settings. (Unkown author) [4]



The Helsinki Olympic Stadium from 1938 in a mountain in Halti, Finland (Emma Svensson & Unknown Author) [5] Altered by authors.

The Olympic Stadium from 1938 in Helsinki has fit into these days trends, to be seen as a modern and chosen with the tower being seen from far and giving always been an iconic landmark of Finland and Finnish functionalism and therefore it has a significant national value for the country.

regarded as an international image campaign: Finland, when seen by the marathon runners. (stadion.fi, 2020) and outstanding white façade. On top of a Tunturi in still a young nation at the time, wanted to show the The different stages of the stadium represent the Lapland the lower building looks almost like a part of world that it was a modern country. To achieve this goal, evolution of Finland architecture's trends, values, ideals the landscape but the tower pointing out skywards looks the Olympic venues and other buildings were designed and identity. During the evolution of the building, you even more visible than in its original setting. according to modern functionalist principles and the can see the changes in the materiality of the facade. latest construction engineering was boldly applied in the construction work." (finnisharchitecture, 2021) The Stadium was always supposed to be a symbol of The use of concrete was a completely new way of Finland at an international level and visible ladmark. building for the era and showed the countries wish to The original location outside of the city center is wisely

powerfull nation. The tower of the Helsinki Olympic the wide views above the city and landscape. Stadium represents a distinct landmark with a height of 72.71 metres (238.5 ft). For the architects it symbolises We were wondering, how the stadium would look like the guard of the stadium and it used to be associated in a clear, typipcal Finnish landscape, far from the "From the beginning, the Olympic Games were with the symbolic notion indicating the final spurt dense civilization to emphasize its monumentality

Olympistadion Helsinki-Finland, Retrieved 17.05.2021 from: https:// www.stadion.fi/en/attraction/visit-the-tower

Finnish architecture. Retrieved 17.05.2021 from https://finnisharchitecture.fi/olympic-stadium/



The renovated Helsinki Olympic Stadium from 2020 in its original settings. (Tuomas Uusheimo) [6]



The renovated Helsinki Olympic Stadium (2020) in Echo lake, United States (Evan Clark & Tuomas Uusheimo) [7] Altered by authors.

THE RENOVATED HELSINKI OLYMPIC STADIUM (2020)

The renovated Olympic Stadium is still in the same The Stadium had to adapt to its several new usages during out especially the new facade wich shows the respect place between the lower buildings of the outer city of Helsinki and the Djurgarden, surrounded by parking lots and other sports buildings.

In this area the tower still seems to be very high compared risen since the last decades, it is not the highest tower (K2S Architects, 2020) pointing out in Helsinki anymore. Altough, all of those city of Helsinki still has the desire to protect it's historic silhouette. (helsinkihighrise, 2021)

the decades after the Olympic Games in 1952 where it of adaptation, away from the dense growing city, and was originally build for. Through time every renovation actual intention of the architects using natural materials was aimed to have the most innovative features of her to fit the building in today's trends of sustainability time as it is nowadays too. Recycled wood was used for while still standing out and being a visible symbol for the new seats, made nearby in Salo, Southern Finland Finnish Identity and Finland being a country pushing to the lower buildings along the street. But since the city and the use of the wood can be perceived as a wish sustainability and innovations forward. of Helsinki has grown and new building heights have to be a part of the landscape more than stand out of it.

high rises are situated outside of the city center as the That is why this time we decided to situate the building on a lakeside in between a dense forest and scenic mountain range. The dark foresty environment, and the tects-nrt mirroring of the building by the surface of the lake points

Helsinki Highrise, (2020) Retrieved 17.05.2021 from: https://www. helsinkihighrise.fi/

Pintos P. (2020) Retrieved 17.05.2021 from https://www.archdaily. com/950755/helsinki-olympic-stadium-k2s-architects-plus-archi-

HELSINKI OLYMPIC STADIUM (1938 AND ITS RENOVATION FROM 2020)

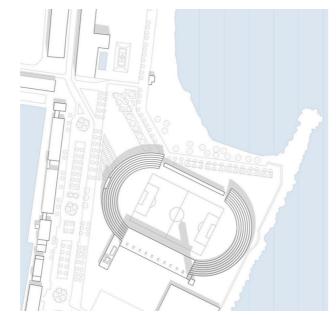
THEME 1: CONTEXT & HISTORY

LYKKE LEENDERS. KATEŘINA MUSÍLKOVÁ. FABIEN SIGRIST. EMMA COLIN

HELSINKI OLYMPIC STADIUM (1938 AND ITS RENOVATION FROM 2020) THEME 1: CONTEXT & HISTORY LYKKE LEENDERS. KATEŘINA MUSÍLKOVÁ, FABIEN SIGRIST, EMMA COLIN



The Helsinki Olympic Stadium from 1938 located in Helsinki



The Helsinki Olympic Stadium from 1938 located in the beach in Barcelona

In the original site plan, the stadium was in a big city but in a large park. So despite its size the Stadium doesn't impact the layout of the urban surroundings too much. It is surrounded with nature and soccer fields and with only few buildings so it was a landmark for the city and visible from long distance too, especially the tower.

a slightly denser area. We chose the location of the "W panorama. Putting this Stadium here is a bit problematic since it's not the same size as the "W Hotel" so the surroundings had to be sligthly adapted.

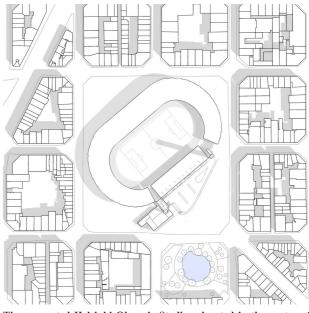
When it's close to the sea the tower could act not only as a lighthouse but also as an international sign, when you're coming in Barcelona from the sea, you'll see it.

Since the Old Olympic Stadium was a landmark in the The first aim while building this Stadium in Finland was original landscape we wanted to see if it can be one in to make a statement that Finland can be international and be a part of the functionalism movement. When Hotel" because it's a landmark in the barcelonian beach we see the building in there in Barcelona, we aren't so surprised. Barcelona can have functionalist and brutalist buildings too and it fits in the surroundings. Also, the white color of the building is closed to the Mediterranean looks so having this building close to the sea and the beach can fit nicely.

Site plans by authors.



The renovated Helsinki Olympic Stadium located in Helsinki [8]



Barcelona instead of the Sagrada Familia [9]

THE RENOVATED HELSINKI OLYMPIC STADIUM (2020)

In the new site plan from 2020, the stadium is still in the building is replacing the well known Sagrada Both Sagrada Familia and the Olympic Stadium are buildings built close to it, the tower of the stadium is no longer the highest structure in Helsinki and the new different layout than its original one, especially in a very façade is as important. It's still a landmark for the city dense grid like the center of Barcelona. but for different reasons: wood façades related to the woods and sustainability of Finnish tradition and they are linked to the park where it is too.

To examine the opposite case of its original setting in a park and how it works in a completely different environment the renovated Olympic stadium was put into the very dense cityscape of Barcelona. In order to the building's appearance and the eyecatching facade. keep the context of being a country's national landmark

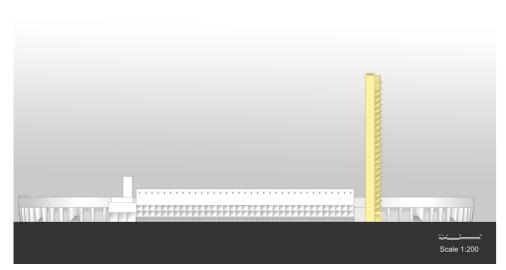
the same park and surroundings but now there are more Familia and its surrounding. Because of the oversized innovative for their time with new materials and dimension of the Stadium its complicated to have it in a construction techniques and trying to stand out. But

> Strong from close, weak from far – As now in Helsinki as well, the tower of the Stadium will not be visible of independency and statement from Finland toward from far away because of the height of the surrounding the World, the Sagrada Familia is more of a cultural, buildings, so it is more about the building itself in its religious and artistic symbol of Spain. new setting. It is hidden in the cityscape and people will be lead through the city and suddenly be surprised by

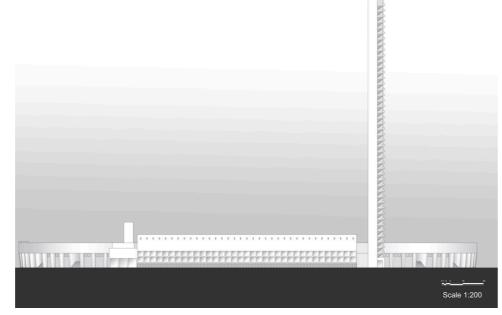
the Olympic Stadium acting as a symbol of Finland with the use of wood isn't anymore a symbol of this country because the codes between Spain and Finland aren't the same. While the Olympic Stadium is a symbol

HELSINKI OLYMPIC STADIUM (1938 AND ITS RENOVATION FROM 2020) **THEME 2: LANDSCAPE & CITY** LYKKE LEENDERS. KATEŘINA MUSÍLKOVÁ. FABIEN SIGRIST. EMMA COLIN

HELSINKI OLYMPIC STADIUM (1938 AND ITS RENOVATION FROM 2020) **THEME 2: LANDSCAPE & CITY** LYKKE LEENDERS. KATEŘINA MUSÍLKOVÁ, FABIEN SIGRIST, EMMA COLIN







Exaggeration of the high of the tower, as a tree growing up.

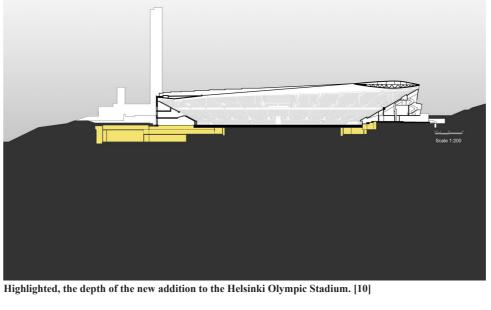
When we first looked at the original version of the So in this project, it's not just about having this vertical stopped to grow? out was the tower. Then through our reading of articles tower as a proud emblem of Finland at that time. and reviews about the building it was clear. The tower States (Architectuul, 2013).

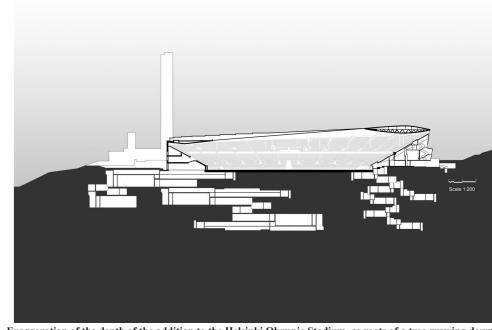
Helsinki Olympic Stadium, the thing that really stood and horizontal line defining the façade it's about this

was a brutalist symbol, it was a landmark and its Nowadays, this tower isn't the highest building in this purpose was to be seen and recognized internationally area of Helsinki, it's still known in the World as an : following the purpose of the whole project : being a heritage but the Stadium isn't the only built edifice in symbol of Finland in the International world of Modern the area, there is another stadium next to it and a lot of influence of Finlande internationnally. Architecture. The tower height was a reference to the new tower in Helsinki downtown, higher than this one. measurement of the gold-medal won by Matti Järvinen So for our exaggeration of this original version of the Elevation drawings by authors. in javelin throw in 1932 Summer Olympics in United Stadium we chose to emphasize the height of the tower. In 1938, the purpose was to grow up in the air and in the world with this tower, what if through the years it didn't

This is why we tried to achieve here by having a tower twice higher than the original one. It accentuate the horizontal and vertical aspect of the Stadium and it also allow the tower to continue being a landmark for people in the area and a constant reminder of the growing

Architectuul, (2013) Retrieved 17.05.2020 from http://architectuul.com/ architecture/helsinki-olympic-stadium





Exaggeration of the depth of the addition to the Helsinki Olympic Stadium, as roots of a tree growing down

THE RENOVATED HELSINKI OLYMPIC STADIUM (2020)

While the Helsinki Olympic Stadium has been renovated to emphasize the underground growth by adding more with great respect towards the original architecture, it has levels. also undergone great changes to meet the 21st century feature of the reconstruction completed in 2020 was an 20,000 square meters underground the amount of warm indoor space was doubled: new sports halls, indoor running track, auditorium, new changing rooms and a logistics area were built. (toposmagazine.com, 2020)

While the original version of the Stadium tried to grow up, this latest renovation grows down and we decided

standards for a multipurpose arena. An important It could be considered as a symbolic reminder that the down to allow the first version to last in time as it is. stadium (and also Finland itself) not only grows in underground extension. With a completely new part of height but is also firmly attached to the ground with solid roots providing stability. Conceptually speaking we can up where anyone can see it but also underground to be tell that Finland is attached to its origins, traditions and able to last. history and by having this renovation growing down like this, it can allow to the original version of the Stadium to prosper as a testimony of what Finland is about. If we compare the version we made of what could have been an exaggerate version of the 1938's version of the

Finally, the Stadium can be pictured as a tree that grow

Stadium to the latest renovation of it we can understand

better why they decided to build underground. While the

first version was growing up the last version is growing

Marketing and Communication Olympic Stadium Helsinki (2020) Retrieved 17.05.2021 from https://www.toposmagazine.com/helsinki-olympic-stadium/

HELSINKI OLYMPIC STADIUM (1938 AND ITS RENOVATION FROM 2020) **THEME 3: TYPOLOGY & ORGANISATION**

LYKKE LEENDERS. KATEŘINA MUSÍLKOVÁ. FABIEN SIGRIST. EMMA COLIN

HELSINKI OLYMPIC STADIUM (1938 AND ITS RENOVATION FROM 2020) THEME 3: TYPOLOGY & ORGANISATION LYKKE LEENDERS. KATEŘINA MUSÍLKOVÁ, FABIEN SIGRIST, EMMA COLIN





Helsinki Olympic Stadium from 1938 with its white concrete façade. (Unknown Author) [12]

Modified façades of the Helsinki Olympic Stadium from 1938, with wood façade (Unknown Author) [13] Altered by authors

walls, ribbon windows and roof-top terraces were pure interior: in wood. functionalism, and the 72-meter-high tower, the highest the latest advances in concrete construction techniques. (Finnisharchitecture, 2020).

the winners in an open architectural competition for the traditionnal material and using concrete for the stadium first version of the stadium and the renovated one, what stadium in 1933 - it is said that the entire description was a statement, to include Finland in the new modern if the first version used traditionnal material in façade of their proposal was the laconic comment: "To be era in architecture. But the latest renovation of the and the latest version used concrete, a more modern built of concrete." The white, smoothly rendered Stadium include a new canopy visible in façade and in one?

landmark in Helsinki, rose above the stadium thanks to So we decided to switch the tower and the façade our idea of seing this building as tree growing, changed of the original version of the Stadium in wood, first because we wanted to see what it could have been if in wood it's complicated to go that high. the statement of the architect was "To be built of wood" And if we look at the old traditionnal houses in Finland and not concrete, as a way to use a finnish traditional

When Toivo Jäntti and Yrjö Lindegren were chosen as the use of wood was almost systematic so wood was a material and also to finally switch façade between the

By changing the façade in wood we also, as a reference to the materiality of the tower to wood, it's smaller because

Finnish architecture. Retrieved 17.05.2021 from https://finnisharchitecture.fi/olympic-stadium/



Helsinki Olympic Stadium from 2020 with its wood and concrete façade (Tuomas Uusheimo) [6]



Modified façades of the Helsinki Olympic Stadium from 2020, with all white concrete façade (Tuomas Uusheimo) [14] Altered by authors

THE RENOVATED HELSINKI OLYMPIC STADIUM (2020)

The Stadium's external architecture of 2020 combines The material choices honor the Stadium's history: in In conclusion, it's really interesting to see that at first renovated parts of the 1950s with a new North stadium square, where food and beverage kiosks in concrete serve audiences. The various elements make up a familiar and recognisable monument in human dimensions.

timeless and durable: white concrete, brick, wood, and glass. The inner surface of the new canopy is lined with wood, and a modern wood composite serves as the material for the seats.

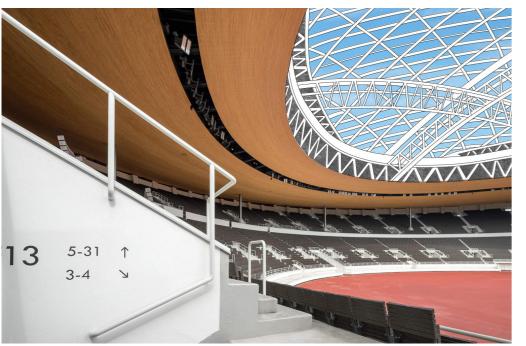
the restored 1930s concrete architecture and the the 1950's, both temporary and permanent wooden the Stadium aim to be modern, to be international and structures were added to the concrete Stadium.

in addition to that, so we decided to switch the facade material of the renovated Stadium into white concrete, The materials in old and new parts of the whole are to see what it would have been if the statement of this addition was the same of the architects of the original version of the Stadium

with this its materality too: the use of a very modern They chose to renovate every material and to use wood material: concrete. While the latest version of the Stadium aim to go back to the traditionnal finnish material and use wood for its canopy and addition in façade. By switching them it's finally difficult to know if the first version was initially in wood, or concrete, and if the latest version was planned to be in white concrete or in wood too. They both want to be a symbol for Finland but in different times so they used different tactics.

HELSINKI OLYMPIC STADIUM (1938 AND ITS RENOVATION FROM 2020) **THEME 4: SPACE & MATERIALITY** LYKKE LEENDERS. KATEŘINA MUSÍLKOVÁ, FABIEN SIGRIST, EMMA COLIN

HELSINKI OLYMPIC STADIUM (1938 AND ITS RENOVATION FROM 2020) THEME 4: SPACE & MATERIALITY LYKKE LEENDERS. KATEŘINA MUSÍLKOVÁ. FABIEN SIGRIST. EMMA COLIN



Helsinki Olympic Stadium from 2020 with authors final addition. [15] Altered by authors.

Helsinki Olympic Stadium from 2020 with authors final addition. [16] Altered by authors.

a great example of the evolution of Nordic Architecture. in the stage of the 2020 renovated Olympic Stadium. such as cultural shows, theaters and concerts. They are

The old Olympic Stadium with its minimalistic, func- fabric to keep the historic face, a change of material on rain, snow or cold temperatures. tionalist and pure design represents the innovative Nor- the outside facade now adapts to the urban context of dic Nation in a worldwide context. New solutions of the park. The special structure of the concrete enabled On the base of this, we decided to try a closed roof plex and high rise buildings. The design stood out from extension underground which is quite unusual nowathe nature surroundings of the Djurgarden Park and the days. With the renovation the country points out again importance was rather the visibility and the face to the its innovative ways of construction. outside while staying pure and functionalistic inside.

While its materials evolution adapts to the old Stadiums built with adaptable roofs, which can be closed during

In addition to their actual use as sports arenas, nowadays Nordic Stadiums such as the Friends Arena or the can circulate through openings.

The two versions of the Helsinki Olympic Stadium are The evolution through the decades is clearly visible. Tele Arena in Stockholm are used for multiple events

concrete structures facilitated the construction of comthe constructors to undermine the building for a minor structure on top of the renovated Stadium. The sketches show the Idea of the addition which ensures, that the Stadium field can be used dry and snow-free during all seasons of the year. It also adapts to the modern Nordic appearance of the Stadium. Through the glass structure, the fields and seats are light up naturally and fresh air

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HELSINKI OLYMPIC STADIUM (1938 AND ITS RENOVATION FROM 2020) CONCLUSION



Image 1. National Pensions Institute (Holma 2017).



Image 2. Urban Environment House (Lahdelma & Mahlamäki architects 2021).

Architect: Alvar Aalto Location: Helsinki, Finland Building finished: 1956 Floor area: 22 500 m²

ing located in Taka-Töölö in Helsinki. In the in 2020 for the Urban Environment Division beginning, the building was supposed to be de- of the city of Helsinki in Kalasatama (Työpasigned and built based on Aino and Alvar Aal- jankatu 8). The surrounding neighbourhood is to's competition win on a different site. How- very urban with very little vegetation. The proever, when Aalto developed the design, there gramme includes working spaces for the urban were problems with the site. This led to choosplanners of the city district, auditorium and ing to build on another place. New appointed restaurant spaces and public service facilities. triangular site was bounded by Nordenskjöld- The first two floors are public space in a Norinkatu, Messeniuksenkatu and Minna Can- dic spirit. (Lahdelma & Mahlamäki architects thinkatu. (Alvar Aalto Foundation 2017)

Aalto wanted to lighten a generic design of Urban Environment House is a large building an office building. He managed to create a that can be divided into three independent sec-U-shaped entity, that looks like many individ- tions. The division can be seen from the outside ual buildings from the outside, but is well conmassing and from the details in the facades. A nected inside. The site locates next to a park, flexible use of the building over time has been and the building mass gets lower towards it. a priority in the design process. The building Red brick, copper and black granite is used in is almost a zero-energy building. (Lahdelma & the facades. Aalto also designed many new fur- Mahlamäki architects 2021) niture, light fittings, wall claddings and textiles for the building. The building has achieved Urban Environment House gives an impression respect to its quality of materials and imple- that it has been built with higher standards than mentation (Alvar Aalto Foundation 2017), usual with a pursue for ecological solutions. although people judged it when it was built. Rooftop terraces with different pavilions and They thought that the building was too fancy the arch theme in the facade are features that for its purpose. (Suutari 2020)

URBAN ENVIRONMENT HOUSE

Architect: Lahdelma & Mahlamäki architects Location: Helsinki, Finland Building finished: 2020 Floor area: 40 900 m²

National Pensions Institute is an office build- Urban Environment House (image 2) was built 2021)

makes this building special.

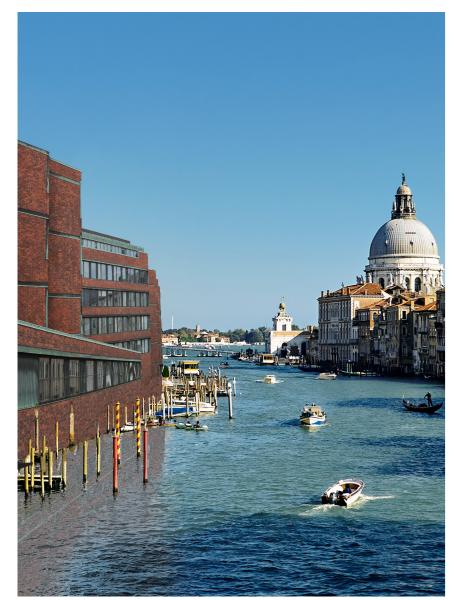


Image 3. National Pensions Institute placed in Venice (Szekely 2014; Wikipedia Commons 2014), altered by authors

country and red brick was something he used in many of his works. (Standertskjöld 2021)

tional Pensions Institute's main campus distinguishes itself with the abundance of detail. It the canal. could be about the ambition of the architect. Alvar Aalto, or just practice of its time, but the The image highlights the different styles since building was built with an eye for the details. This finished style can be seen for example ditional local buildings. The contrast is clear. when comparing the building with the Ur- Local buildings' facades are colorful, decoravisible signs of ventilation or other technical National Pensions Institute has a neutral color, equipment in the ceilings or otherwise. Also, it is not very typical that architect designs the New surroundings makes the building feel building so comprehensively that even light figures and furniture have their handprint on it. its original place in Finland it does not feel like

section of three roads. This raised the question how it would look like in a different situation, where the landmark building is just one building among others. In the image on the left (Image 3), the main building of National Pensions Institute becomes a part of a canalside architecture in Venice in Italy. This was an interesting test since Aalto travelled a lot to Europe and beyond, but Italy was his favorite (Alvar Aalto 2021).

Materials and simple style of National Pen- While it is a funny though experiment to set sions Institute represent the 1950s. At that the National Pensions Institute in the Meditime, Aalto became a leading architect of our terranean environment, having a monumental piece of architecture alongside the canal feels ultimately a bad idea. The local architects in Venice have clearly had the same epiphany Compared to the buildings built today, Na- - the existing domed cathedral in the background is built a definite distance away from

the National Pension Institute is facing the traban environment house; there seems to be no tive, and full of different shapes, whereas the and a simple and peaceful rectangular form. heavy and dark, which is interesting because in it. Even though Aalto took plenty of influences The building is originally located in the inter- from Italian building heritage (Pape-Mustonen 2017) these considerations tell that those influences are seen in some other ways.

URBAN ENVIRONMENT HOUSE

the size of a whole city block. A large footprint leads to deep building frames. This is a much that has to do with the lost of scale. Urban Enbuildings. vironment House has a relatively deep frame. The lack of daylight is compensated with high The Urban Environment House represents a ceilings and large windows.

The massing of the building into several secthat the buildings independent sections can be an interior designer. interpreted from the facade indicates of functionalism thinking that might be behind the Considering the use of the house (Helsinki enmassing to make it easier to navigate.

a zero-energy building despite the large window surfaces (Lahdelma & Mahlamäki archiare hot topics in our time. These values tend in the massing of this building. to be highlighted in contemporary buildings. How these values achieve their goals is left to be seen.

In the 1950s, the quality could be seen in the smallest details such as unique door handles, railings and other hand made building ele-

It is typical for our time that a new building has ments. Today buildings are more based on prefabricated parts that are installed on site. This can be seen as lack of richness and personalidebated feature of Helsinki city development ty in the details even in high quality profiled

relatively high quality building of today. Use of built on site brick facades is a feature that indicates high standards in quality. Also, histions might tell something about the scale of torical references have become more accepted. the building. The aim might have been to make The use of an arc theme in the facade positions the impression lighter despite the large foot- this building to this decade. Indoors the quality print and to ensure sufficient daylight. The fact is visible as quality materials put together by

vironmental agency), we wanted to place the building from dense cityscape into an ironi-Urban Environment House is said to be nearly cal context of dense Finnish forest (image 4). While in the city the building is just one of many buildings in the city, the Urban environtects 2021). Rooftop terraces with plants are ment house creates a focal point in the anonyalso features that tells a story about the eco- mous plot of land in Finnish woodlands. The logical values in this project and these values change of location reveals the organic features



Image 4. Urban Environment House placed in a forest (Lahdelma & Mahlamäki architects 2021; Lankinen 2013), altered by authors

Image 5. National Pensions Institute on its original site in Töölö.



Image 6. National Pensions Institute located on a new site in Kalasatama.

National Pensions Institute locates on a trian- the buildings serve similar functions, but their the big main road Mannerheimintie goes close grid plan-like environment.

surrounding city blocks are enclosed, and the used material. This also makes National Penbuildings have seven floors on average. How- sions Institute blended into the surrounding ever, there are also a few parks in the area. In buildings, whereas in Töölö it stands out from the immediate vicinity, towards southwest of buildings with plaster facades. the site there is an elongated park called Kirjailijanpuisto. This makes National Pensions Next to the National Pensions Institute on its Institute the end of the views from two directions, so the location is very central in the land. Buildings create a fun pair, since both of townscape.

the design. Staggered mass has its tallest parts the site plan (image 6). close to the tall surrounding buildings, whereas parts of the building get lower towards the park. Also, there is a courtyard on the site that acts as an addition to the park. The surrounding buildings have plastered facades, so National Pensions Institute stands out from them with brick facades.

As a part of the landscape and city analysis, National Pensions Institute is relocated on a different site in Kalasatama, where the Urban Environment House originally locates (image 6). The switch was interesting, since both of

gular-shaped site in Taka-Töölö (image 5). The locations are very different by their nature. site is bounded by three roads, of which Nor- Where the original site is in a central location denskjöldinkatu and Messeniuksenkatu are in an old neighborhood of Töölö, the other site bigger, and Minna Canthinkatu smaller. Also, in new area of Kalasatama blends more into its

Red brick used in the facades fits well to the The city district in question is dense. All the context of Kalasatama, where brick is the most

new site, there is a building of Statistics Finthem have red brick facades, monotonic window rows, and similar type of staggered build-Surroundings are taken well into account in ing mass. The staggered form is seen also in

URBAN ENVIRONMENT HOUSE

tion to become a new dense urban city district buildings are for pedestrians. with housing, offices and businesses (Helsinki 2021). Brick is used in several facades and a Placing the Urban Environment House in place also typical in this area.

relatively deep frames and the organization of place. blocks is similar to a grid plan. The buildings eight floors on average. Many of the surrounding city blocks are at least partially enclosed Environment House (Karttapalvelu Helsinki), which might change the dynamics in the future.

Työpajankatu and Hermannin Rantatie are clearly busier due to the traffic than Työpajan-

The location of Urban Environment House piha and Tukkutorinkuja which are preserved is close to Kalasatama roughly two kilome- for mainly for pedestrians. The plots facing ters from Helsinki railway station (address north and west forms together with the Urban Työpajankatu 8). The surrounding areas, Ka- Environment House a "super block". The busy lasatama and Verkkosaari are old factory and roads with traffic are wrapped around the "suharbour areas that are under heavy construc- per block" and the street space between the

large building footprint with a deep frame is of the National Pension Institute makes the building stand out (image 8). While the building works as part of the Kalasatama site plan, Urban Environment House forms an enclosed having such a large frame depth in the relativecity block together with an L-shaped building ly homogenous area with frame depths half of (image 7). The surrounding city blocks have the Urban Environment House looks out of its

have different angular shapes. Every block is Facades with varying angles are used widely individual. The surrounding city blocks have in Kalasatama, but this concept works rather poorly in the simpler site plan of Taka-Töölö. Having the Urban Environment House as a masses. The Urban Environment House is view end at the Kirjailijanpuisto and Arvo Ylphigher than the surrounding buildings at this pö Park has a different impression than the Namoment and has the impression of a public tional Pension Institute — the other was built building. There will be even higher infill build-right from the beginning as a view end, while ings on the now empty plots north to the Urban the other was designed as part of a grid plan. While it doesn't fit the site and doesn't work that well as a view end, an inner yard forms also with this building.



Image 7. Urban Environment House on its original site in Kalasatama.



Image 8. Urban Environment House located on a new site in Töölö

NATIONAL PENSIONS INSTITUTE & URBAN ENVIRONMENT HOUSE **THEME 2: LANDSCAPE & CITY** OLIVIA UNTAMALA. ONNI PERNU. OSSI HAUTAKOSKI. STINA SAARINEN

The National Pensions Institute is a distinctly horizontal building, despite its several stories and vast size. The further highlighting the horizontality. In the same way less large corporation - not too far from the function of repeating "ribbon windows" in the facade create long as the Urban Environment House, also the National stretches of both red brick, glass and patinated copper Pensions Institute has a very rational facade system. (image 9).

The original name of the competition entry of the building was called "forum redivivum", literally "market re- As part of this excersise we decided to explode elonstored". As a modernist building, light traffic of pedes-

Unlike the other building, there is very little playfulness in this rather serious office building.

gating the long facade to the South-West further (image silhouette.

trians and car traffic were split into separate platforms, 10). The result resembles the main office of some namethe original building.

> Staggered building mass creates an impression of cluster of different buildings instead of one. This was something that Aalto aimed at in the design (Alvar Aalto Foundation 2017). Overall the elevation looks like city

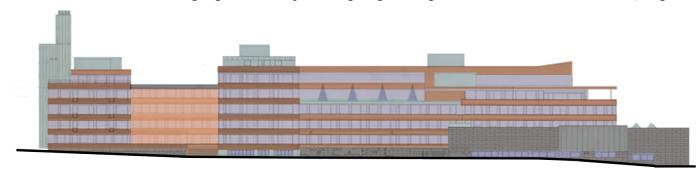


Image 9. Elevation to the southwest (Alvar Aalto Foundation 1955), altered by authors.

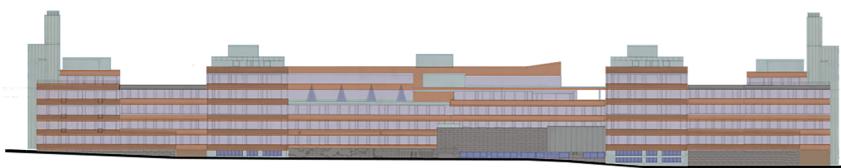


Image 10. Elevation to the southwest with elongated vertical facade (Alvar Aalto Foundation 1955), altered by authors.

URBAN ENVIRONMENT HOUSE

The look of the Urban Environment House represents a contemporary office building with its relatively rational grid-based facade and with a high rate of windows. However, sculpture-like brick vaults bring playfulness to the facade and make it more interesting by forming visible contrast with the grid motive (image 11). The arches form a definite wow-effect to the building.

The strong effect of arch and grid-based openings are enhanced with the use of brick. It is also notable that the glasses are approximately few bricks deep in the facade. This greatly affects the general feel of the fa-

Since the grid motive is clearly the dominant feature in the facades, we wanted to see to which extent the arch motive could be increased, and how it would affect the look and feel of the facade (image 12). Also, there are variations of the vaults; part of them are full circles and some are upside down near roof top. With these inserts, the facade is way more sculpture-like, yet it still remains relatively restrained.

Even though the modifications look quite believable in the facade composition, it should be mentioned that the large openings would probably be redundant in the upper floors due to the function of the buildings. The existing ground level openings indicate the lobby and bring light to it.

The original facade is clearly more harmonious than the altered one. The arch theme is created as a con-

entrances and the public spaces of the building. In this to it due to the random positions of the arch themes in the sense, the original facade's "form follows function". The facades of the upper floors.

tinuous zone at the hem of the building, indicating the impression in the altered facade have a post-modern feel



Image 11. View of the building with the first floor arches highlighted (Lahdelma & Mahlamäki architects 2021), altered by authors.



Image 12. View of the building with modified windows (Lahdelma & Mahlamäki architects 2021), altered by authors.

There is also a tower of copper in the north-west of the really encourage to approach it. site. Today, copper is patinated into green but it has reminded of gold when the building was built. Some of In this task, facade systems of National Pensions Instithe separate building elements are black granite as well as the walls surrounding the garden and fountains in it. (Sarkkinen 2006)

to north-east and south-west, whereas the facades to altered facade helps to make the impression lighter.

Institute are red brick, copper and black granite. Red less windows. Materials and composition makes the the location of the entrance better than the original. Both brick is the most visible material of the building and building look steady. Facades are overall consistent and of the facades have an anonymous look. The original it was specially made for the purpose. Copper is used have few accents. From a distance, it is quite hard to see in roofs and facades to cover the insulation in places. where the main entrances are and the building does not

tute and Urban Environment House are switched. First impression of the images is that the overall look is quite similar and realistic. However, the grid of windows is even more visible in the modified version and windows Facades have a very horizontal appearance due to the are larger. That gives a more transparent and even lighter continuous windows. Also bricks that are laid in hor- impression even though the main material is still brick izontal form accentuate it. Most of the windows open and new facades are a little higher. The verticality of the

The main materials of the facades of National Pensions nort-west and south-east have more muted look with The arc in ground level of the modified facade shows facades continuous windows give a hint of the buildings age. Time will tell whether the arc theme in the Urban Environment House will be a feature that is recognized of today's (2020-) building era.



Image 13. Original facade of National Pensions Institute to the northeast (Kela 2007), altered by authors



Image 14. Modified facade to the northeast (Kela 2007; Kuvatoimisto Kuvio 2021), altered by

URBAN ENVIRONMENT HOUSE

The rough materiality in Urban Environment House is created with concrete, wood, brick and copper (Lahdelma & Mahlamäki architects 2021). The building is composed of a solid brick facade with a strong grid structure created by the large windows with the vertical wooden motif on the side (image 15). The colour of the brick is medium dark mud brown. Glass surfaces and the brick will for sure preserve their looks over time. The wooden parts will probably need more maintenance. The use of only a few materials makes the facade harmonious and minimalistic while the arch theme gives the otherwise rational facades an addition of lightness and fun.

The facades have been swapped between our two study cases (image 16), as we have done through out this project. Only the organization of the facades have been altered. The materials are kept according to the original facade.

Also in this case the first impression is similar between the original facade and the altered one. The appearance is realistic and inspiring. The use of continuous windows can easily make a building look like a product of the 1950s. However, in this case the appearance is surprisingly fresh. The facade is some how lighter, probably due to the massing and the two store high ground level supported by vertical pillars. The vertical feel in the original Urban Environment House has preserved. The use of wood that looks freshly cut might be the crucial feature that makes the altered facade look like a product of our time instead of the 1950s.

The original facade with its vertical brick pillars and the supporting structure is hidden and the impression is arches looks like it is able to support its own weight. a floating facade. While in the altered facade with the continuous windows

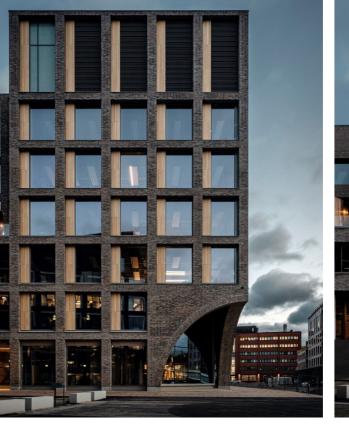


Image 15. Urban Environment House (Lahdelma & Mahlamäki architects 2021).



Image 16. View of the building with modified facade (Lahdelma & Mahlamäki architects 2021), altered by authors.

CONCLUSION

marise in few words. On the other hand, this course has ferent time periods, they have surprised by still being just built area with quirkily shaped city blocks. The Urprovided a great opportunity to analyse the characterics office buildings.

Contemporary nordic architecture is difficult to sum- of these two office buildings - while built in two very dif- There is a distict typology in Kalasatama: it is a densely



Image 17. Urban Environment House (Kuvatoimisto Kuvio 2020), altered by authors.



Image 18. National Pensions Institute facade (Archipicture n.d.), altered by authors.

ban Environment House embodies this spirit well, as has been documented in the landscape & city analysis task. The district of Kalasatama has seen the tallest buildings of Finland built in recent years. As the need to densify housing is a constant theme especially in Helsinki, we envisioned the not-too-far future, when even the dense Kalasatama area seems too loosely built. Our addition takes the existing gridlines and inverts the facade system by protruding the windows themselves to the outside and seemingly sucking the wall within the frame (image 17). Even though we honoured the existing building, the addition doesn't feel quite at home at its place on top of the building. There is a distict impression of another office building built at the end of 2010s in Helsinki, this time in Pasila. You either like the facade or you dont.

One of the trends both in nordic countries as well as elsewhere is the utilisation of wood also as a structural element in larger scale buildings. As part of this final task we garnished the National Pensions Institute with popular timber-based additional public sightseeing storey on top of the existing, rather private office building (image 18). The glass and wood invoke thoughts of Helsinki Central Library Oodi, but also a hint of critique. While it is probably more socially acceptable to densify existing city structure with light wooden structures than ten years ago, there is clearly a time and place for them. This wasn't one of the times, even if there is a greenroof on top to sweeten the deal.

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NATIONAL PENSIONS INSTITUTE & URBAN ENVIRONMENT HOUSE CONCLUSION OLIVIA UNTAMALA. ONNI PERNU. OSSI HAUTAKOSKI. STINA SAARINEN CONTEMPORAR

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NATIONAL PENSIONS INSTITUTE & URBAN ENVIRONMENT HOUSE CONCLUSION OLIVIA UNTAMALA. ONNI PERNU. OSSI HAUTAKOSKI. STINA SAARINEN CONTEMPORAR ARCHITECTUI

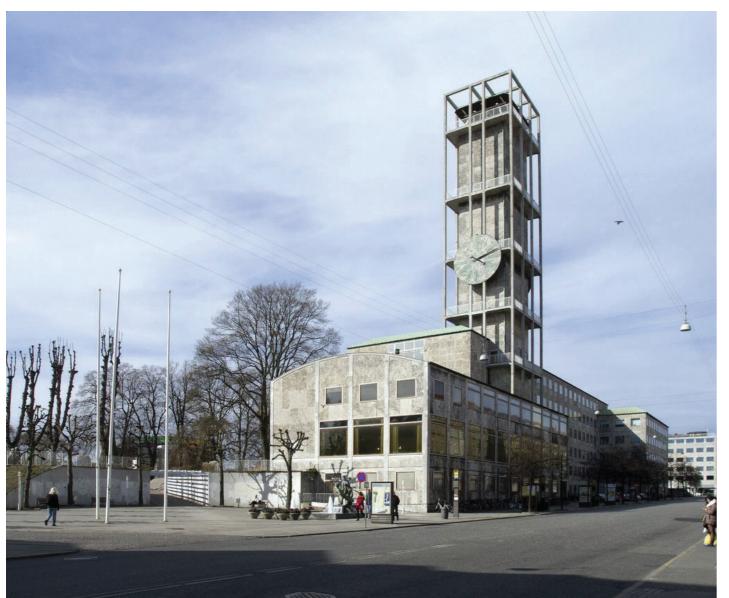


Image 1. Aarhus City Hall in Aarhus, Denmark.

Completed in 1941, the Aarhus City Hall is a well-known example of modernist architecture in Denmark by Arne Jacobsen and Erik Møller. After surviving the second world war, it got global recognition, and is nowadays considered a classic work of Nordic architecture.

The project won a competition held in 1937. The harsh and international modernist style of the exterior architecture is combined with the more regional and organic interior features. The massing of the building is a play between a clock tower and three other masses: the entrance block, the "panopticon" block and the "inquiries" wing. The form and massing of the blocks follow each function.

The building has become a local landmark, but interestingly the most notable feature, the clock tower, was not part of the original plans. Only after the citizens asked for the addition did the architects include the iconic tower. The democratic nature of the process fits the building well, and the story became immortalized in the architecture of the building. (Archdaily 2019)

The building is rather separate from the rest of the architecture in the area, and it does not attempt to imitate or blend in with the surrounding built environment. It's freely situated in the park and the surrounding open space makes it even more of a central point in the area.



Image 2. KTH School of Architecture in Stockholm, Sweden.

KTH SCHOOL OF ARCHITECTURE

The KTH School of Architecture is a very recent addition to the Royal Institute of Technology in Stockholm, Sweden. The building was completed in 2015 and it was designed by Tham & Videgård Arkitekter. It's a contemporary and very different take on organic Nordic architecture.

In an abstract way the massing is similar compared to the Aarhus City Hall. They both have a vertical extension breaking up the more rhythmic and horizontal main mass, and the form is driven by function. The free-flowing and flexible plan of the KTH School of Architecture can be seen as a continuum of the modern Nordic architecture that Aarhus City Hall represents.

The building was designed into a tight urban square, and the design is utilizing the space effectively. The CorTen-clad building is balancing between standing out and blending in. The architecture is welcoming and open, with special attention put to circulation inside and outside of the building. (Archdaily 2015)



Image 3. Aarhus City Hall merged with the Barcode Project. Original image by Nurgaliyev, A. Altered by authors.

Aarhus City Hall in its original setting is a dominant building with much open space around it. We merged the building into a tight cityscape, very different from its usual surroundings. Without the surrounding space and advantage of size, its central role in the urban environment is diminished.

The Barcode Project is a redevelopment of a former dock and industrial land in central Oslo. It consists of a row of new multi-purpose high-rise buildings, that was completed in 2016. There has been intense public debate about the height and shape of the buildings.

While the Aarhus City Hall is in fact a very large building, it feels small when put next to contemporary housing blocks. It seems that the human scale is lost with the newer buildings, and therefore this experiment has also revealed something about the state of contemporary Nordic housing.



Image 4. KTH School of Architecture in a Forest. Original images by Lindman, Å and Hagerlund, T. Altered by authors.

KTH SCHOOL OF ARCHITECTURE

With the School of Architecture we did the opposite, and replaced the tight urban square with a natural one. We found that the effects of the design decisions got switched up when placed into a natural environment. The organic form language is a deliberate contrast to the blocky buildings in the actual site, but in the natural environment it seems complementary, like the building is mimicking the rounded organic forms. The same is true in reverse with the materiality. The CorTen steel is meant to blend in with the red brick façades of the neighboring buildings, but in the forest scenery the material seems out of place and contrasting.

These experiments highlight how both buildings have been consciously and carefully designed to connect to the surrounding urban fabric in a certain way, and how those design decisions would work differently in another situation.

Nordic contemporary architecture often gets its inspiration from natural environment, and it was interesting to see what would happen if the building was moved directly into its embrace.

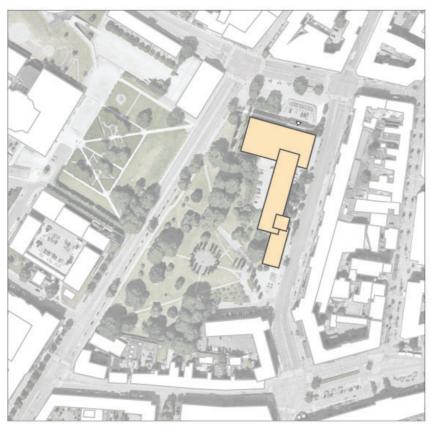


Image 5. Site plan, Aarhus City Hall. Altered by authors.



Image 6. Site plan, Aarhus City Hall in Tampere city center. Altered by authors.

We studied the roles of the buildings in the urban enviplan we analyzed the design decisions that make it such. For example the street lines, views, massing and abundant space around the building have been used to make an empty slot in the tight city fabric as part of the urban ture. it more dominant in the urban environment.

grid, the central role of the building is diminished.

We tried to experiment on this and see if the role could Architecture has different aims and attitudes towards ronment further in site plan level. We feel that the role be changed by altering the surrounding city typology. the surrounding built environment, which becomes apof Aarhus City Hall is clearly a landmark. From the site We couldn't fit it on the site of the other study case, but parent when the building is moved to another location. we tried to find similar conditions to place it in, and we These experiments are showing how the site and urban came up with Tampere City center. When placed into structure affect the approach and outcome of architec-

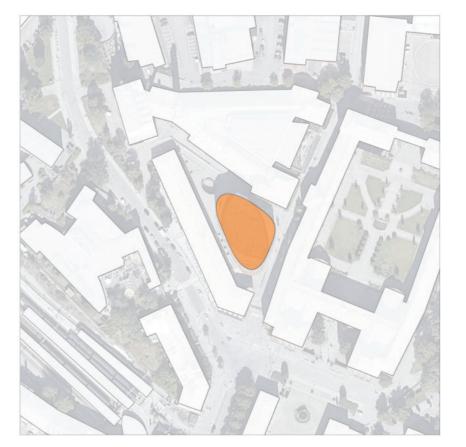


Image 7. Site plan, KTH School of Architecture. Altered by authors.



Image 8. Site plan, KTH School of Architecture in Rådhusparken, Aarhus. Altered by authors.

KTH SCHOOL OF ARCHITECTURE

The building is tightly squeezed into the site and really Placed in the Rådhusparken on the site of Aarhus City The School of Architecture has been designed for a with the surrounding buildings.

using all available space effectively. It's still possible to Hall, the absence of space is changed to abundance of tighter plot and the form isn't as justified in the big park. move around the building and appreciate it from all anspace. The building is in a weaker relationship to the The urban scale design methods, that were used to make gles. The rounded form is used to soften the atmosphere surrounding urban structure and the contrasting form Aarhus City Hall a central landmark, no longer work on the crammed site and to have a stronger dialogue language becomes less effective, although the organic with the smaller mass. The building becomes a pavilform is now in dialogue with the park.

ion-like accessory when surrounded by so much space.

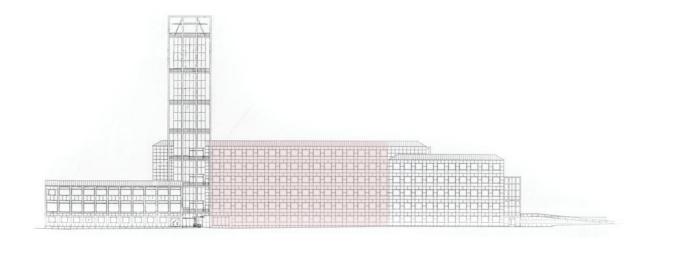




Image 9. Elevation, Aarhus City Hall. Altered by authors.

Next, we studied the impact of the architectural decisions from a different angle and observed the façades and the way the buildings are experienced in the urban space.

For our intervention we felt that the tower element is already exaggerated and distinctive. The building represents functional architecture and therefore we decided to emphasize the function rather than the visual element. The tower also wasn't part of the initial plans, so we wanted to experiment with the original vision of Jacobsen and Møller. The outcome is an interesting study of the essence of the building.

By stretching the rather famous "panopticon" block we put emphasis on the calm and rhythmic modernist façade of the building. It is the part of the building that determines the block's overall appearance by it's grid system.

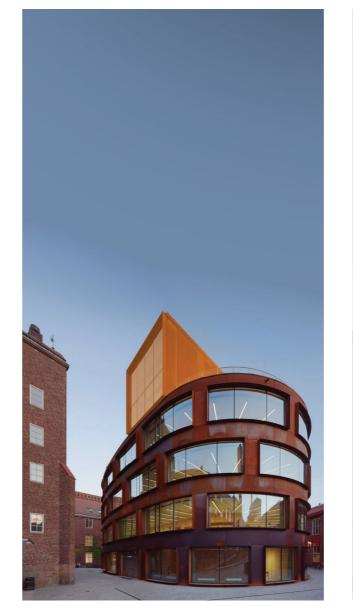
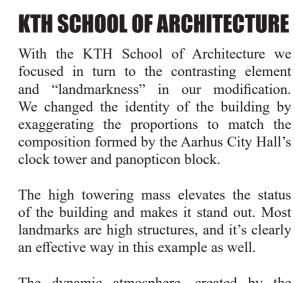


Image 10. KTH School of Architecture. Lindman, Å. Altered by authors.



The dynamic atmosphere, created by the openings and the rounded form of the building's base mass, is however not working with the towering structure. The two conflicting motives make the composition restless and incoherent. The blocky grid-like facades of the Aarhus City Hall on the other hand are complementing the mass of the clock tower.

All the different parts of the design need to work together in order for the end result to meet its objective. Two different and disjointed themes are hard to combine in a meaningful manner.



Image 11. Aarhus City Hall. Altered by authors.

The façade of the Aarhus City Hall is emphasizing the importance of the building, especially through material use. The 6,000 square meters of imported Norwegian marble and additional copper detailing create a respectable and opulent atmosphere. (Archdaily 2019)

Switching the materials and openings to the ones from KTH School of Architecture creates a notably different appearance for the building, however the massing proves to be even more defining for the overall atmosphere. Much of the identity is preserved even after changing the cladding to the more contemporary CorTen steel and having a more dynamic window arrangement.

In some ways the transformed building feels wrong and out of place. It seems unlikely that a contemporary architect would end up with this kind of massing with the same materials and openings. Combining architectural elements from different time periods really make us thiink about the reasons, values and ambitions behind every decision. Perhaps such experiments can make us more mindful of the design solutions we make as architects.



Image 12. KTH School of Architecture. Original image by Lindman, Å. Altered by authors.

KTH SCHOOL OF ARCHITECTURE

Similar findings come from doing the same study the The newfound features and architectural traits are clear— What is clear from these examples is that such exemother way around. The marble cladding and a more grid-like arrangement of openings dilute the identity of form of the building seems to be the most determining component of the whole design.

AARHUS CITY HALL & KTH SCHOOL OF ARCHITECTURE

HENRI EVÄSOJA. NIKOLAI JELISEJEFF. MATTI RENFORS

THEME 4: SPACE & MATERIALITY

ly not optimal for conveying the ideas behind the architecture and don't benefit the goals of the project. The been thoroughly and coherently designed. A holistic apthe KTH School of architecture to some degree and in cladding material isn't working with the red brick maproach from concept to the finished building is needed a way justify and explain the original design. Still the terial of the adjacent buildings, and the calm and static openings are not optimal for the tight plot that is asking expectations. Mismatched or inconsistent architecture for a dynamic solution.

plary pieces of contemporary Nordic architecture have to meet the esthetic goals, site conditions and functional doesn't make good urban environment.



Image 13. Aarhus City Hall addition. Altered by authors.

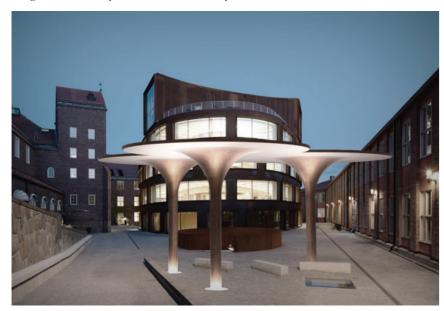


Image 14. KTH School of Architecture addition. Altered by authors.

THE ADDITIONS

The new addition is a hybrid of a café, a restaurant and library. It serves people who work at the Aarhus City Hall, but also other people passing by the building. It creates opportunity to eat and read in front of a beautiful park scenery. The new addition also offers an alternative entrance to the existing building.

The addition extends the existing lobby hall still allowing the natural light in the lobby space. The ground level's arcade, where the entrance is situated, creates a covered area for the café's customers. Roof level's terrace creates a multifunctional space to be used by the restaurant and library's customers.

The addition's façade follows the same grid system as the existing building. Its slightly larger widows give it a more public and welcoming feeling. The materials - concrete and glass imitates the same rawness attaching it in a subtle way to the Aarhus City Hall.

The second addition is a covered exterior space for the small plaza in front of the KTH School of Architecture. The organic form language follows the architecture of the School of Architecture.

The gathering spot is further blending in the building with its surroundings. It enhances the functionality of the plaza and creates an in-between space that enables more activities and interactions.

CONCLUSION

Our comparison between two public buildings from a different time period and with a different function proved to be fruitful. Despite the different functions and ways of architectural expression, the designers have dealt with similar design challenges and created architecture with a unique and regional Nordic touch.

The buildings are products of different eras and different architectural thinking, however they're both dealing with the same theme of connecting a building to its surroundings. Even if the methods and surroundings themselves are very different, there is a similar emphasis on integrating the architecture to the urban environment in both buildings.

This comparison between less literal, and perhaps abstract, similarities was interesting, and enabled us to do creative studies and guide our attention to things we wouldn't otherwise have concentrated on.

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AARHUS CITY HALL & KTH SCHOOL OF ARCHITECTURE

CONCLUSION

HENRI EVÄSOJA. NIKOLAI JELISEJEFF. MATTI RENFORS

CONTEMPORAR NORDIO ARCHITECTUR 202 AARHUS CITY HALL & KTH SCHOOL OF ARCHITECTURE

CONCLUSION

HENRI EVÄSOJA. NIKOLAI JELISEJEFF. MATTI RENFORS

Image 1: Photo from the 1950s, Helsinki University Porthania Building by Troberg, E / MFA.



Image 2: Student restaurant, Helsinki University Porthania Building by Tiainen, J. / NRT Architects

HELSINKI UNIVERSITY PORTHANIA BUILDING

Porthania building is part of the Helsinki University campus and it is located in the center of Helsinki, quite near Esplanadi. The building was completed in 1957 and designed by Aarne Ervi who got the comission by winning an architecture competition held in 1949.

Building represents innovation and it is a forerunner of that time, because it was the first building to have prefabricated elements and prestressed concrete beams in Finland. These innovations allowed the building to become flexible in future and to have open vertical spaces, which makes the building unique for its time. Some characteristic inside of Porthania are also big lecture halls, long views, beautiful staircases.

From the outside it represents modern architecture of the 1950s quite well, with long ribbon windows and white simple façade and pavilions attached to main building.

Porthania went through restoration in 2006. The restoration was done by the NRT architects.



Image 3: EduCity - Turun ammattikorkeakoulu by Loikas, V.



Image 4: EduCityn suuri ja valoisa aula by Loikas, V.

EDUCITY

EduCity building, completed in 2020 and designed by Sigge Architects is the newest building in the Kupittaa campus. It is based on a competition holded in 2012 where the initial idea was to create four terraced buildings, and EduCity would have been the first one. Since then, the plan has changed a bit.

The architecture has playfulness and the geometry is interesting, with the terrassing mass and light glass bridges, that connects the building to the existing ICT-city building.

From the inside, we can tell there are wide range of spaces that allow social living, learning and working. The building was designed and built both for the polytechnic community and for the use of companies and different communities. The open and flexible spaces create and environment that inspire everyone to work and create together.

HELSINKI UNIVERSITY PORTHANIA BUILDING & EDUCITY

INTRODUCTION

CONTEMPORARY NORDIC ARCHITECTURI 2021 HELSINKI UNIVERSITY PORTHANIA BUILDING & EDUCITY

INTRODUCTION

SINI ANTILA. JOSE CÁNOVAS. PERE FORNER. PABLO NAVAS. SARA VOUTILAINEN

CONTEMPORARY NORDIC ARCHITECTURI 202



Image 5: Original backround image by King, G. Altered by authors.

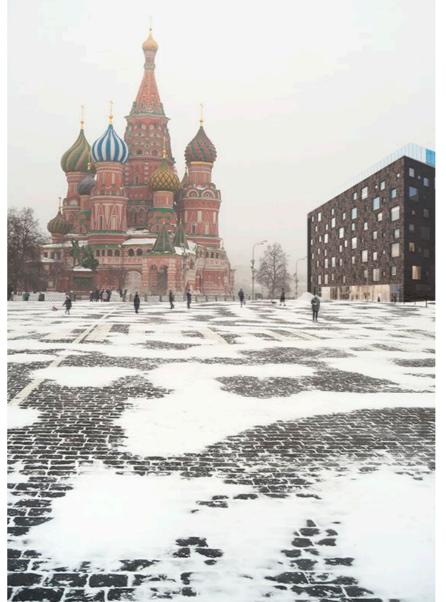
CONTEXT & HISTORY ANALYSIS

Since the task was to place the building in a There are many differences between Hamnøy that the different characteristics of Porthania approaches regarding its placement.

fishing village in Norway, in this case Hamnøy. The places that haven't filled yet with contemporary style buildings and still keep a homogeneous and linear architecture can in most cases host the Porthania building.

Because its timeless architecture and minimalist style it can fit to a mountain village as well as in the city centre of Berlin. The chosen site in Norway contrasts completely with Porthania's original site in Helsinki but still adapts to it. At the same time the building is gaining much more importance in regards to its context due to the fact that a university placed at Hamnøy would be one of the main building of the site with its size.

place out of context and history, we tried to and Helsinki which support that Porthania find a place for both our research buildings building would be placed there out of its where they could fit and they would be out of context. These differences are the size of the their context at the same time. We found out surrounding environment and buildings there, the mountain skyline of Hamnøy and the wellbuilding took us to a completely different defined urban plan of Helsinki. In Helsinki the amount of different uses on surrounding buildings is wider and it has its own unique The classic lines, postmodern architectural history. In Helsinki, the capital of Finland, elements and simple white facades of the people are used to buildings like Porthania but Porthania building in Helsinki allows it to in Hamnøy the building would stand out with be transported to a place as classic as a small its size and functionality giving it an special role in the small fishing village.



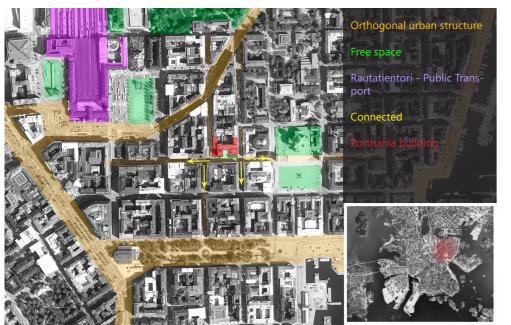
CONTEXT & HISTORY ANALYSIS

EduCity building in Turku with its (built in 1565). The architectural style in contemporary, modern and minimalist style Kupittaa is minimalistic and all used colours allows it to fit in different places where are very neutral. Most of the buildings on the the mix of styles can host this contemporary area has been built in the last decades to have an style. Since Turku is an old city and former equal architectural style which makes Educity capital of Finland, makes it a host for a lot fits to the surrounding buildings well with its of different building styles that have been brown tile facades. In Red Square Moscow developed throughout the decades. The mix of Educity is taken out of its context standing different architectural styles in the city make next to very old, colourful and decorative the contemporary style of EduCity fit perfectly building with a big open square in front of it. In to the city. In Kupittaa, where Educity is located Moscow the building is surrounded by a clash in Turku, on the immediate surroundings of different architectural pieces from different of the building are a lot of contemporary moments of history. This makes the Educity buildings with residential and educational use. stand out of the surroundings and make it an This helps the buildings connect well to their unique piece of contemporary style building. surroundings and to their context.

After analyzing the city structure of Kupittaa and Educity surroundings, we discovered that all cities that include this mixed styles and have a good development of contemporary architecture would make a good host for the building, such as cities like Moscow and Paris. Due to the fact that in Turku the building is surrounded by contemporary buildings and busy roads, it was decided that the new site would change that to see how the building works on a different context regarding its immediate surroundings, in this case in Moscow. In Turku, the building is placed nearby an old church Turun Tuomiokirkko (built in 1276). As a similarity, we decided to place EduCity in Moscow, nearby the Saint Basils Cathedral

HELSINKI UNIVERSITY PORTHANIA BUILDING & EDUCITY THEME 1: CONTEXT & HISTORY SINI ANTILA. JOSE CÁNOVAS. PERE FORNER. PABLO NAVAS. SARA VOUTILAINEN CONTEMPORARY ARCHITECTURE 2021

HELSINKI UNIVERSITY PORTHANIA BUILDING & EDUCITY THEME 1: CONTEXT & HISTORY SINI ANTILA. JOSE CÁNOVAS. PERE FORNER. PABLO NAVAS. SARA VOUTILAINEN



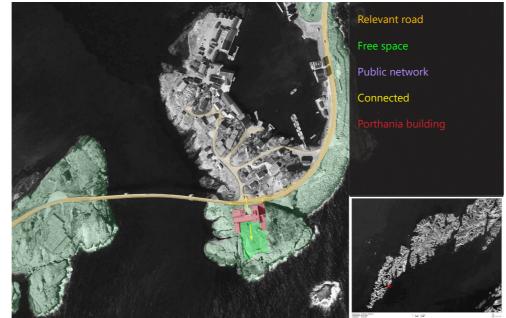


Image 8: Original from Google Maps. Altered by authors.

LANDSCAPE & CITY ANALYSIS

The Porthania building is located in the middle of an orthogonal urban city structure in Helsinki, close between main roads Pohjoisesplanadi and Aleksanterinkatu. There are some isolated parks between the buildings, but the density of Helsinki city structure doesn't allow them to be really big or form a continuinity between the parks. Porthania building itself creates its own free space and little greenery to connects the site. The building is placed in the end of an important street of Hamnøy. highlight the institutionality and the main entrance to the building. The site is located In this site, the building presides the village as it is the biggest building really close to the national public mobility network and the Helsinki Rautatientori in the place with a special functionality. This means that the relevant road railway station. As Porthania is placed in the middle of Helsinki, it is well connected near the building will have a much bigger use by becoming even more used to other educational and administrative buildings. Porthania building is well main road to the town. The natural space around the building will gain much integrated in the city structure but it doesn't highlight for his architecture in its current more importance, by turning into a main plaza with a lot of people using it. place by fitting to the surrounding buildings with its size, form and functionality. In conclusion, the building would completely change the town and its hierarchy.

In the picture up the Porthania building is placed in a more natural site with only smaller buildings and coastal landscape next to it. The proportion between natural and build space is rugged as the natural space represents the major part of all the surroundings. The new site is almost disconnected to the public network, only the motorway

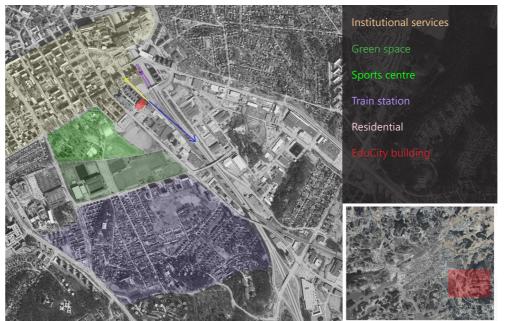


Image 9: Original from National Land Survey of Finland. Altered by authors.

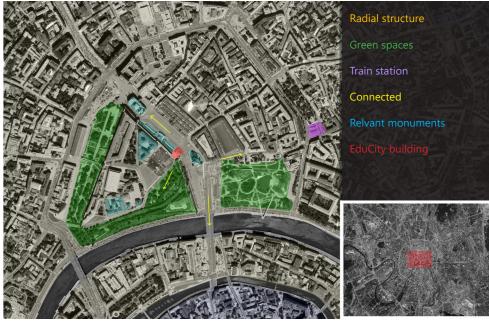
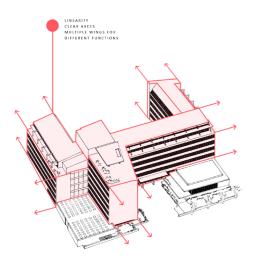


Image 10: Original from Google Maps. Altered by authors

LANDSCAPE & CITY ANALYSIS

The Educity building located in Kupittaa area in Turku has a direct connection to a main road named Helsingin Valtatie. Helsingin Valtatie in front of it and smaller roads lead to structure of Moscow. In Moscow the building has a straight connection to almost both the residential parts of the area and institutional buildings. A big public and green space is really close to the building, as well as an educational sports center. There is not that much of density amongst the buildings and they are quite equal with their size and train station mobility network nearby. Being in the center of the most touristic places location. Kupittaa train station nearby the Educity building and bus stops connects the of Moscow brings a duality into the importance of the building: on one hand, the building with the public national mobility network. The Educity building is having a lot building loses importance in regards to its context as it is surrounded by relevant of connections and modern disrupted style places itself as a relevant building in Turku. monuments and on the other hand, the building gains a monumental importance

In the upper picture the Educity building is located in the center of the radial city every important place in Moscow. The building is surrounded by a lot of public plazas and green spaces. It is located in the center of the city and it has the bus and for the fact that it is located on one of the most historical sites in the whole world. The building doesn't change the city structure or the circulations of the city in its new place, but it is a good addition that gives more than it takes.



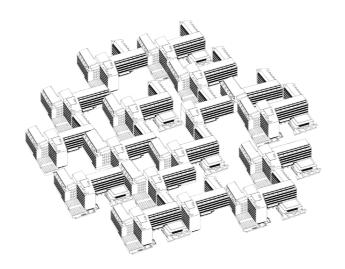
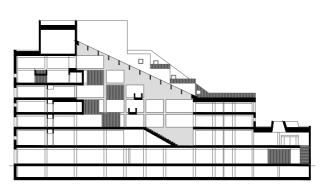


Image 11 & 12: Axonometric drawing, Helsinki University Porthania Building by MFA. Altered by authors.

TYPOLOGY & ORGANISATION ANALYSIS

The special architectural symbol in Porthania building is the combination of modern When we wanted to exaggerate this building, it was clear that the different axes of architecture, structures and building technology and how they all work together. the Porthania building with its own wings and uses had to be highlighted. Porthania In the light entrance hall and corridors of the building can be seen the anatomy of building has clear and strong directions in its building mass and facades. Long wing Porthania, which are visible concrete pillars and beams. Building has long spans parts of the building and horizontal window rows could be scaled into a bigger form while supporting structures are being minimized to create open floor plan, where only to create interesting views, functionalities and yards between the building structure. pillar rows, elevator shaft and stairs are essential (not movable). The special feature Different wings for multiple uses could be added as long as the axes are respected. of Porthania is a dividing wall structure that was designed to be flexible. Big lecture This way the horizontal lines of the Porthania building that predominat are maintained halls, dining spaces and gym hall are all being aggregated around the entrance hall and carried forward. in the lower floors of the building. Other teaching spaces and offices are in the upper floors. White and simple facades, long horizontal windows, and airy feeling from Porthania is not completely visible in the shown axonometric drawings, since we outside to inside spaces are the most well-known features of Porthania.

wanted to highlight the L-shapes of the building and because the reference picture was not completely showing the whole building.



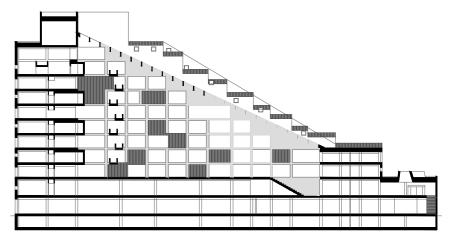


Image 13 & 14: Section by Sigge Architects. Altered by authors.

TYPOLOGY & ORGANISATION ANALYSIS

The space and concept of the Educity building reviews state that it is a digitally and socially accessible building, which promotes well-being. It is transparent and open at have exaggerated the two of the most important aspects of the building. The first the same time, project-based, multidisciplinary, permeated by art, sustains the future one, the open space created in the middle where spontaneous encounters take place and it focuses on developing and experimenting. The main target is that the building would be service-oriented and flexible at the same time. The building features many facilities for group work, which enables the encounters of both staff and students and a new kind of learning according to the spirit of INNOPEDA, which is a pedagogy system based on a collaborative network-based learning that supports innovations.

The architect of the project, Pekka Mäki, states the following: "The spaces can be exaggerated in horizontal and vertical way." divided and modified very freely and, thanks to careful planning, the designs of the partitions and the interior elements provide flexibility to the spaces to implement

different teaching spaces according to the needs of the students." In the section we is bigger and bring opportunity to different uses. The second one is the terraced building mass shape that permits the connection to the existing ICT-City building. For these reasons when exaggerating the section it was clear these two aspects had to be enlarged, creating a even bigger open and common space and highlighting the terrace shape in all its directions. The Educity building has a special feature in its design and architecture since it still keeps its main characteristics even though it would be





SINI ANTILA. JOSE CÁNOVAS. PERE FORNER. PABLO NAVAS. SARA VOUTILAINEN

HELSINKI UNIVERSITY PORTHANIA BUILDING & EDUCITY

THEME 4: SPACE & MATERIALITY

SPACE & MATERIALITY ANALYSIS

The original white facade of Porthania building (top left) works well with its original surroundings in Helsinki because it is being subtle without calling attention from the surrounding city structure and building. When changing the materiality of the facade, it was decided that the new materiality should fit both into the original and the new site. Dark pine wood was chosen as the new material for known as a modern and sustainable choice. In its original placement in Helsinki, when changing the materiality (bottom on the left side), the buildings characteristics change completely. Before, the white facade followed the surroundings and made the building fit well to its surroundings. With the pine wood the building brings much more attention into it and stands out as being a big mass with wooden parts. Having a big wood university at center of Helsinki is not normal, so the change favors originality and standing out amongst its context. In Hamnøy in Norway (on the right side) the pine wood is original building facade material on the site. Therefore the new materiality of Porthania building blends into the surroundings and fits better to this more natural environment and making it now stand out because of its form and not because of the material or color. In its context, the building would maintain its importance due to its use and its size, but it would adapt much better to its surroundings.



Image 17: Original backround image by King, G. Altered by authors.





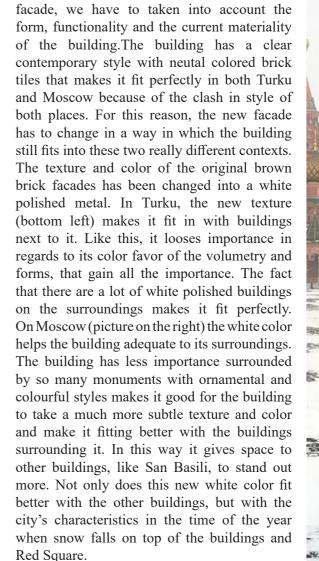




Image 20: Original backround image by Boris SV. Altered by authors.

HELSINKI UNIVERSITY PORTHANIA BUILDING & EDUCITY THEME 4: SPACE & MATERIALITY SINI ANTILA. JOSE CÁNOVAS. PERE FORNER. PABLO NAVAS. SARA VOUTILAINEN

Image 18 & 19: Visualization by Sigge Architects. Altered by authors.

CONTEMPORARY **ARCHITECTURE**

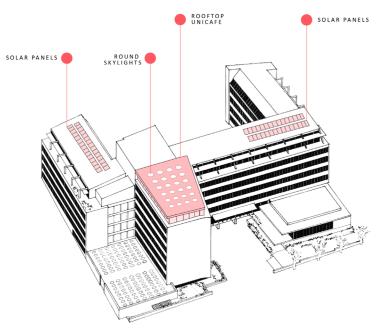


Image 21: Axonometric drawing, Helsinki University Porthania Building by MFA. Altered by authors.

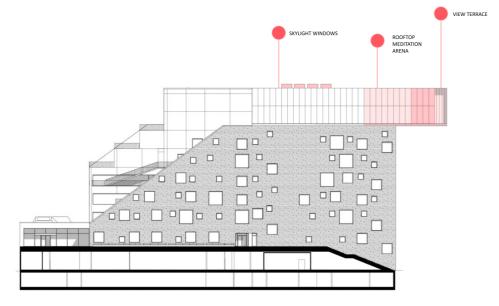


Image 22: Section and facade by Sigge Architects. Altered by authors.

SMALL ADDITION PORTHANIA

café for the students for example. To connect the addition to Porthanias style, we've added round skylights on top, since the shape is used in the auditoriums inside the These additions respect the building, its aspect and its function and its users. In building for example. Skylights bring more natural light to the addition and give it a addition, they enhance the building creating spaces that were not thought about when more interesting and modern touch.

The Porthania building represents a very classical example of modern Nordic In addition to the rooftop unicafe, we wanted to enforce the sustainable aspects of architecture from the late 50's, with clear axes that the different wings of the building the building. Nowadays, in educational buildings and public buildings in general, it's follow and pavilions connected to the main building. With the addition, we wanted to quite usual to place solar panels on the rooftop. This way the building corresponds keep it subtle and functional as well as fitting it to the building. With todays modern better to the demands of sustainability which are so crucial in todays world, and architecture, it is quite typical to expand buildings upwards, and so we have taken the obviously offer a better way to produce energy for the building and its users. form of the canopy structure located on the roof, and expanded the shape to become The panels are more technical than aesthetic, but since they are placed on quite an additional floor on top of the building. This addition could function as a rooftop high rooftop, they don't affect the general look of the building or the street view.

the building was constructed.

SMALL ADDITION EDUCITY

After analyzing all characteristics Educity has to offer, we decided that an small addition to the building should help the building in its functionality whilst maintaining the essence and keeping all the characteristics that make the building unique. In this sense, it was clear that little things had to be added to the outside appearance, as the building stands out quite good in its context. The section shape could be enhanced since it is a key for the correct operation of the building. The open spaces for spontaneous meetings and informal encounters had to be maintained as well.

Educity is being an educational building with multiple services and we thought it would need something different besides these services. Educational and business places are normally known as busy and noisy places that people are visiting during the week. We created an extra wing for special relaxation to the rooftop level. Meditation and yoga hall combines wellbeing and silent rooms for only one people per time. At the end of the meditation wing is a rooftop terrace that people in Educity could enjoy the fresh air and views during their visit. To bring the sunny Turku weather inside the building, we have added new skylight windows to the rooftop floor.

This additions help the building in regards to the services that it presents, maintaining the characteristics and spaces that make Educity unique and adding some new components that could help the users of the university.

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Image 10: Google. (n.d.). [Google Maps map of Moscow city center]. Retrieved in April 2021 from https://www.google.com/maps/@67.94617 48.13.1341594.638m/data=!3m1!1e3

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Image 22: Sigge Architects. Leikkaus ja julkisivu - section and facade [drawing]. Retrieved from https://www.ark.fi/fi/2021/01/educity/

HELSINKI UNIVERSITY PORTHANIA BUILDING & EDUCITY

CONCLUSION

SINI ANTILA, IOSE CÁNOVAS, PERE FORNER, PARLO NAVAS, SARA VOLITILAINEN

CONTEMPORAR RCHITECTUR

HELSINKI UNIVERSITY PORTHANIA BUILDING & EDUCITY CONCLUSION

House by COBE in Copenhagen. The buildings have been built decades apart from each our group quickly came to the notion that there day as it was some decades ago. are surprisingly many similarities to them.

Both buildings share a political agenda behind them. The House of Culture was built mostly by different leftist organisations in Finland. political background. Some people in Helsinki still remember the place by this old reputation. (Kulttuuritalo)

cent years and the area has a developed a hard, tion to the problem this new library tries to the space. (COBE) bring people together and invites everyone to join in social activities. (COBE)

Both buildings have a recognizable geometrical form paired with one significant material in the facades. House of Culture is known for its roundness and unusual non-orthogonal brick in the facades in the auditorium side of

On this course our group took a closer look of the building. Tingbierg Library has been treattwo buildings: House of Culture by Alvar Aale d with wood lamellas that are a dominating to in Hesinki and Tingbjerg Library & Culture feature in all its facades. This kind of use of materials bring out the best of the buildings and highlight the form in a very nice manner. other, House of Culture in 1958 and Tingbierg Both buildings are an example of this way of Library in 2018. Despite their age difference, treating the facades that is still as popular to-

Last thing that the buildings share together is the importance of acoustics. House of Culture is known for its concert hall that has very good sound climate. In the first test concerts after the Back in the day there were musicians who construction the acoustics of this auditorium avoided the place for a long time because of its space were stated as one of the best in Helsinki. House of Culture got very good reviews on its acoustic climate from international musicians also. (Kulttuuritalo) Acoustics have been important in Tingbierg Library as well. Tingbjerg Library & Culture House was built Special care has been targeted to the auditoto revive the declined neighbourhood of Ting- rium facing to the street side. (Dezeen. 2018) bjerg. There has been a lot of crime in the rehave been reached with cladded plywood and generally introverted atmosphere. As a solu- wood lamellas that affect the sound climate in



Image 1.. House of Culture. Image by Wotjek Gurak/Flickr/archdaily.com.



Image 2. Tingbjerg Library & Culture House. Image by Rasmus Hjortshøj/COAST/archdaily.com.

HOUSE OF CULTURE. HELSINKI & TINGBJERG LIBRARY. COPENHAGEN INTRODUCTION ALPER AL. ANNI MARTTINEN. HEIKKI MOILANEN. JEFFREY NIVELLE. JUHO KUOVI

HOUSE OF CULTURE

Architect: Alvar Aalto Location: Helsinki, Finland Building finished: 1958

conference hall in Helsinki, Finland. House The construction finished in 2018. The project of Culture is situated in the area of Alppihar- was commissioned by the city of Copenhagen. ju along cogested street, Sturenkatu. The con- (COBE) struction of the building started in 1955 and was completed in 1958 (Kulttuuritalo).

layed by two years due to a difficult economic Tingbjerg. The building serves a purpose of situation. The building was a great project by bringing residents together across different the Communist Party of Finland and sever- cultural backgrounds. (COBE) al leftist organizations, and the building was mostly financed by the party too (up to 480 Tingbjerg Library has been built as an extenmillion marks). It was mostly built with vol-sion to an old school in the area. The building untary work with a strong spirit of the labor is located just where the old school entrance movement. Over 5000 voluntary workers took part in the project. (Kulttuuritalo)

Legend says that Aalto drew his first sketch ties that the new Library brings to the area are of the building on a cover of a Klubi-cigarette clearly visible to the surrounding neighboupack. First official sketches were done in 1953. hood. (COBE) (Kulttuuritalo)

TINGBJERG LIBRARY

Architect: COBE Location: Tingbjerg, Copenhagen

Building finished: 2018

The idea for Tingbjerg Library & Culture House of Culture is a well known concert & House was developed in a competition in 2013.

The building is ambitious attempt to restore the crime-ridden area with a bad reputation The building of the House of Culture was de- to evoke a new sense of pride of the place of

> used to be. The open glass façade represents openness to display the opportunities provided by the library for the citizens. The possibili-

HOUSE OF CULTURE. HELSINKI & TINGBJERG LIBRARY. COPENHAGEN INTRODUCTION ALPER AL. ANNI MARTTINEN. HEIKKI MOILANEN. JEFFREY NIVELLE. JUHO KUOVI CONTEMPORARY ARCHITECTUR 2021 CONTEMPORAR ARCHITECTU

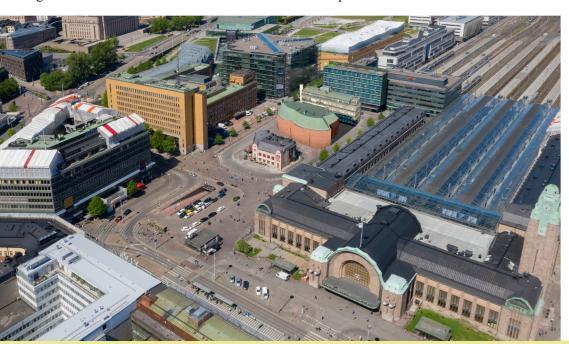
HOUSE OF CULTURE

The House of Culture is one of Alvar Aalto's The building has a history with political asmost notable works in Finland. The building pects. Several leftist organisations had their is known for its curved form and brick facade. House of Culture was built mostly by volunsons to place it in Elielinaukio plaza in this task tary work and was owned by leftist organisa- deals with politics as well. Todays political entions for a long time. After construction it be-vironment in Helsinki has been quite turbulent came a popular place for the people of Helsinki and there has been a lot of discussion about the to spend time in. (Kulttuuritalo)

era". At the time Aalto used a lot of brick in his works before shifting to ceramic tile & marble. This was the first time that Aalto used The building also has a copper roof and office building facades made of same material.

offices in the House of Culture. One of the reacurrent development in Helsinki. Many culturally important places will possibly be are The building is an example of Aalto's "brick under construction in the future. Elielinaukio is one of the most controversial places at the moment. (Helsingin Sanomat. 2021)

brick in a non-orthogonal form. (AD Classics) One of the biggest questions in Elielinaukio has been the amount of construction. In the visioned plans there would be as much as 40



000 m² of built floor area. There has been discussion that the plaza is being sold to the investors too easily, which has been widely seen as a wrong way to develop Helsinki. The key argument has been that the city doesn't need massive construction projetcs rather than parks and public plazas for the citizens. (Helsingin Sanomat. 2021)

House of Culture represents an example of smaller construction in the plaza. Placing House of Culture to Elielinaukio isn't a perfect solution to the current developing problem, but it represents the scale of something different. It seems to fit in the plaza quite well. The brick façade finds color scheme counterparts around the plaza. The copper façade of the office side also has its own counterparts, because there are other public buildings with copper in their facades as well. For the same reason the copper roof also sits to the area. Playful round form adapts well to Elielinaukio, because there are buildings that have interesting forms as well, like Makkaratalo.

Image 3. House of Culture located in Elielinaukio, Helsinki Original images by Miikka Ruohonen/Lentokuva Vallas Oy/ sttinfo.fi and screenshots from Youtube-video by TSS Drone. Transformed by authors.

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THEME 1: CONTEXT & HISTORY

ALPER AL. ANNI MARTTINEN. HEIKKI MOILANEN. JEFFREY NIVELLE. JUHO KUOVI

TINGBJERG LIBRARY

Tingbjerg Library is a landmark for Tingbjerg trast between old and new is essential in this of political agenda behind both of the buildings, even though the agenda is more societal people of Tingbjerg.

rates in the recent years. Tingbjerg has also ish Government publishes every year. (Deutsche Welle) There has been gun violence and Library. harassment of the neighbours (Tingbjerg) and the area also suffers from low education and high rates of unemployment (NREP).

There are many plans of urban developing on the way for Tingbjerg. The idea is also to develarea. (NREP) Nowadays it is common to take ings architecture. the community as a strong base for the design of public buildings. Societal aspects have been There has also been discussion in Helsinki the Tingbjerg Library & Culture House. The (Tingbjerg Library & Culture House).

In this task we have chosen to place Tingbjerg Library in Market Square, Helsinki. The con-

area. The geometrical form is significant as it composition. In the square, public buildings is in Aalto's House of Culture. There is a sort are made of stone materials while the Library is made of wood. Wood in the facade is used in thin plywood lamellas, which seems to be a in Tingbjerg Library & Culture House. With its popular way to treat wood in the facades these aim to build a better community, there is a tardays. There has been a lot of discussion about geted group that the building is made for: the the use of wood in all building sector because of its low carbon footprint. There is a demand for more environmentally friendly construc-Tingbjerg suburb has suffered with high crime tion. However the use of wood isn't so common in all fields of construction (e.g. housing) been selected on the "ghetto list" that the Dan-yet. The use of wood seems to be coming more popular in public buildings, just like Tingbjerg

When we were looking for a new location to Tingbjerg Library we noticed that many culture houses are often placed close to water. We wanted to try that with the Library as well. The wood facade reflects to the surface of the waop the infrastructure and other buildings in the ter, which brings new dimensions to the build-

an important value in in the design process of about the development of its coastline. One of the places that has evoken political discussion building aims to enhance the quality of life and is Eteläsatama, which is located quite close to build a stronger community in Tingbjerg area Market Square. (Helsingin Sanomat, 2021) One way of developing coastlines of cities is to build wood buildings near the coast, just like the new Stora Enso Headquarters in Katajanokka. Stora Enso Headquarters could find

a counterpart from another wood building in the area. In this task we have used Tingbjerg Library as an example of this kind of devel-



Image 4. . Tigbjerg Library located in Market Square in 1948, Helsinki. Original images by Rasmus Hjortshøj/COAST/archdaily.com and Nokelainen/YLE/wikipedia.com. Transformed by authors.

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THEME 1: CONTEXT & HISTORY

ALPER AL. ANNI MARTTINEN. HEIKKI MOILANEN. JEFFREY NIVELLE. JUHO KUOVI

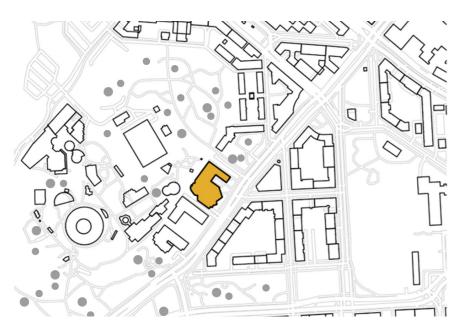




Image 5. Tigbjerg Library located in Market Square in 1948, Helsinki. Original images by Rasmus Hjortshøj/COAST/archdaily.com and Nokelainen/YLE/wikipedia.com. Transformed by

LANDSCAPE & CITY

Kulttuuritalo is located in Alppila, ing the volumetric precedence of of the surrounding building vary point into the woods. from 4 to 6 stories. Behind Kulttuuritalo there is the hill of Linnanmäki and on the other side runs busy Sturenkatu street and the main façade is facing the street.

Helsinki in a part of a dense city- Rosendhal hotel in a very similar scape The surrounding program way, Kuultiratalo may respond to of Aalto's culture house consists this green open landscape in a more school, museum, residential, green adapting way with its red brick and recreational programs and Lin-façade, yard and entrance hall like nanmäki amusement park. Height almost a well-defined gathering

The House of Culture was built for the Finnish Communist Party, during their rapid rise in the 1950s. The year of completion of the building in 1958 also marked their electoral success.

As Richard Roger says: Architecture is always political and has a duty to society.(Roger. 2013. Dezeen.) Placing the building in to the Pyynikki forest-area, would bring a more of leftist land mark next to the Rosendahl Hotel. On the other hand, placement of Kuultiratalo into a highly appreciated forest areas of Pyyniiki would evoke controversy in itself. While imitat-

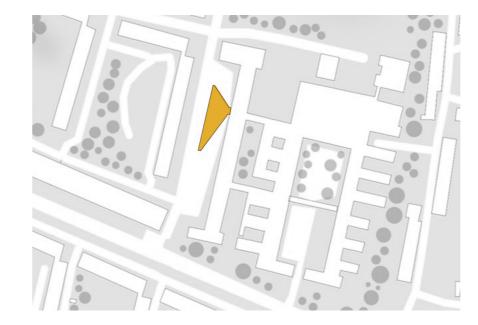




Image 6. Site plan of Lapinlahti Psychiatric Hospital HELSINKI, altered by authors.

Tinjberg library is located a bit outby high crime rates in recent years. high and mostly residential.

tion with the street and is kind of ture use. extruding outside to the public. In a material sense, yellow brick baguette claddings and wooden ply- We believe that placement of Tinwood lamellas of Tingbjerg library jberg library as an attachment with matches with surrounding build- its wedge shape section to the linings of Tinjberg neighborhood ear form of Lapinlahti Hospital and where yellow brick facades form disrupt its well defined courtyard its character since 50s created by looking to the sea may also create a two respectful figures in Danish various programs and attraction for modernism: Steen Eiler Rasmus- the visitors. sen and Carl Theodor Sørensen.

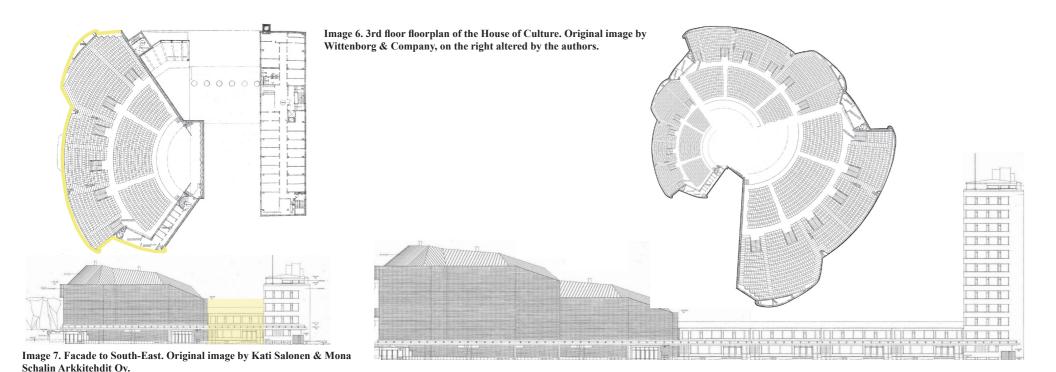
Architecture office also aims a mission of their intervention by serving its program as an urban catalyst and an architectural framework for social and cultural activities, thereby contributing to a positive improvement of the local community in Tinjberg. One of the reasons of this architectural attempt caused

side of the main city of Copenha- This positive affect of Tinjberg ligen and built as an extension part brary and culture house could bring to the existing school building. new social activities to the Lapinla-Neighborhood is a bit isolated by hti area. Lapinlahti is a green area the natural forms of the river and close to Helsinki city center. There the main roads. The surrounding aren't many buildings, except an building are from 3 to 4 stories old hospital building located close to the coast line. There has been little use for the building in recent years and there has been a lot of The Library is in close interac- conversation about building's fu-

HOUSE OF CULTURE. HELSINKI & TINGBJERG LIBRARY. COPENHAGEN **THEME 2: LANDSCAPE & CITY**

ALPER AL. ANNI MARTTINEN. HEIKKI MOILANEN. JEFFREY NIVELLE. JUHO KUOVI

HOUSE OF CULTURE. HELSINKI & TINGBJERG LIBRARY. COPENHAGEN **THEME 2: LANDSCAPE & CITY** ALPER AL. ANNI MARTTINEN. HEIKKI MOILANEN. JEFFREY NIVELLE. JUHO KUOVI



HOUSE OF CULTURE, HELSINKI 1958

There are many different typologies to be found in most In House of Culture there are forms repeatedly used by The building's political background could be read in of Aalto's work, in House of Culture the most evident Aalto and thus creating his "own typology". The fan the monumental form of the auditorium wing, showing might be the plaza formed by the building complex. shape is something that Aalto has used in many of his strength and dominance to the other two wings of the Aalto has designed a plaza to many of his buildings, for works, in House of Culture the shape was even formed building. The canopy enclosing the plaza and leading to example in Säynätsalo Townhall. Aalto approached the in to the brick, which was specifically produced for the the entrance resembles the typology of an arcade, and is design task as three separate projects that resulted in the building (Alvar Aalto Foundation, n.d.). Another refertripartite mass (Alvar Aalto Foundation, n.d.). This ap- ence was the office wing of the complex, that continues reference dating back to ancient Greece. proach made the three masses (auditorium, connecting the "story" of other copper façade office buildings in hallway and the office block) separate enough to form a Helsinki and thus extends its meaning beyond a pursmall-scale town of sorts. The space for gathering and pose of only contrasting the brick mass of the auditorisocializing was continued from the plaza to the inside um (Malmberg. n.d.). lobby too (Fiederer. 2016), and the hallways leading up to the auditorium served this purpose as well.

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THEME 3: TYPOLOGY & ORGANISATION

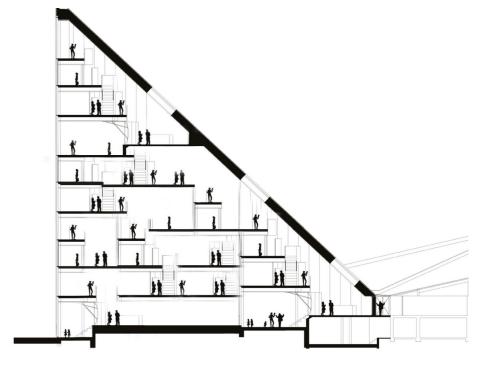
It is clear that Aalto has studied the typologies lasting the fan shaped auditorium, and the plaza outside are over two thousand years, and used them in his designs.

an overstated element in the design, another typological

Overstating the distinctive typologies in the design by repetition and changing the scale gives the design more contemporary appearance. But, by changing the scale you lose the intimacy and the humanity of spaces. Both pleasing in sense of space due to the their human scale.



Image 8. Section of the Tingbjerg Library. Original image by COBE architects, on the right altered by the authors.



TINGBJERG LIBRARY. COPENHAGEN

As well as with House of Culture, the Tingbjerg Library gy of a typical Danish household item found in many spatial organization. The design's attempt to fight the cades has been tackled with openness throughout the plans. The large glass-façade opens up to the neighpeople together is also in the shifting floorplates, niches and balconies, creating an impression of a small mountain village. (COBE. Tingbjerg. A Setting for Social Interaction.)

has a political beginning, that can also be seen in its Danish living rooms – the typesetter drawer (COBE). The design reinterprets many typologies of the area, very public nature, the building rises as a new landmark crime-ridden troubled area that has generally closed fawith its slated roofs and yellow brick "baguettes" of the for the area. This strong identity of the building was as facade (Langer, C., n.d.). The yellow brick "baguette" of the façade creates a contemporary typological play borhood to display the lives of the residents and meet when it changes to wooden slats when going inside of Overstating the distinctive triangular funnel shape of across the cultural barriers. The attempt to bring the the building, something you expect the façade to be made out of too. Even though very contemporary, the wooden slat façade is something appearing internationally thus creating a distinct type of façade typology.

Looking more closely the form of the design also creates The open facade draws its inspiration from a typolo- a connection with the typologies of the school's larger

masses, with a funnel shape together morphed with a slated roof. By the new form, it's social openness and its well seen in the House of Culture.

the building strengthens its public nature, and effectiveness as a landmark. The aspect of bringing people together, at least in meaning, is weakened as the scale and distances grow. Also the building wouldn't sit as well to its context. But, enlargening the spaces, it does resemble more of "super complex" filled with different functions, with a more international identity, not a "tingbergian".

HOUSE OF CULTURE. HELSINKI & TINGBJERG LIBRARY. COPENHAGEN THEME 3: TYPOLOGY & ORGANISATION ALPER AL. ANNI MARTTINEN. HEIKKI MOILANEN. JEFFREY NIVELLE. JUHO KUOVI



Image 9. Photography of the entry facade of Kulttuuritalo, by Fiederer L. & altered version



SPACE & MATERIALITY ANALYSIS KULTTUURITALO

administrative part. As seen one the previous this project. themes, this composition is due to the ideological and political approach of the first We remove a part of the brick facade and utility of this project.

arc. This special shape is the reason of this already is a part of this area. possibility to have a circular brick facade. The other distinctive point of this volume Structurally, there is an impact on the the inside and the outside. Of course, this with a hiding and showing alternance. made to create an atmosphere and prepare the spectators before a show, creating an in The idea behind this facade change is to between area. The canopy creates an outdoor create new stages. The first one is made by area for gathering and waiting. Still in the silhouettes of the people inside. Even accordance with the former political aspect, with a not really visible inside, the moving this canopy become a socialisation area.

Kulttuuritalo is composed of three different On the collage, we decide to have a different areas; the auditorium, the canopy and the approach of the entering process decided for

replace it by some textured glass panels.

This new design engenders a new global The main volume, the auditorium, is an aspect on the auditorium volume, that seems organic shape made of specials bricks. These less heavy than before from this view. The bricks are not rectangular ones, but one side choice of texture glass is a way to keep a bit is rectangular and the opposite one is an of secret of what happen inside, a secret that

is the absence of window on these facades. building. However, the inside structure could That create a global massive aspect but also have a role on the global balance. The canopy a shell to block any interaction between in front of that have also a visual impact,

persons create a public show for people on the street. The second one is in the opposite The administration volume seems colder. way. The street become a stage for the With old copper panel, this area is less persons who are waiting for the real show. attractive but this approach still in accordance With that solution, we bring back a kind with the political history of this project. of a public private interaction, between the However, this part has a lot of openings, in building and the city, within the conservation total opposition of the auditorium volume. of the original privacy wanted for this area.



Image 10. Photography of the back facade of the Tjingberg Library, by Francisca Gonzalez M. & altered version



SPACE & MATERIALITY ANALYSIS TINGBJERG LIBRARY

a particular identity, due to its shape and its complex facade approach, related to the materiality.

This wedge-shaped shell is composed of different levels that look like a village on a We duplicate the glass facade on the southern hill composition. This composition is visible one, to try to bring light inside and a different on the main glass façade, one of the northern atmosphere. However, as said previously, ones. The choice of this facade for this direct light could be a harmful problem for materiality is made to preserve the library books. So, to protect the facade from this, integrity. In fact, direct light is the first we put some solar protections, made of the enemy of a book. So, with the orientation similar yellow bricks baguettes. With that, of the facade and the inside composition we offer a good light income without a direct (with more functions areas instead of light inconvenience. These solar protections bookshelves), this choice for a light entry are placed in accordance with the inside is the more logical one. Two roof windows levels, to optimise the protection. offer a support to this huge glass facade.

The rest of the facades are covered by yellow have a totally different aspect but still in bricks baguettes. This materiality choice has the same ideas of the real one. We keep been made in accordance with the context of the coherence with the context, a respect this extension of the Tingberg school. With a of materialities, and a landmark aspect. To respect and dialogue with the present and the complete, this approach could also be seen as past of the area, the library keeps a logical a complement of the counter of criminality coherence with the district.

To sum up, the Tingbjerg library inhabitant. particularities of its shape and materialities are the things that create a coherence with the district and a strong identity, a landmark,

The Tingbjerg library and culture house has On the collage, we decide to challenge the weather and solar condition that could have a huge impact on some programs, as a library.

With this approach, the Tingbjerg library of this district too. It creates more views and so, more implicit protection for every

HOUSE OF CULTURE. HELSINKI & TINGBJERG LIBRARY. COPENHAGEN THEME 4: SPACE & MATERIALITY ALPER AL. ANNI MARTTINEN. HEIKKI MOILANEN. JEFFREY NIVELLE. JUHO KUOVI

HOUSE OF CULTURE. HELSINKI & TINGBJERG LIBRARY. COPENHAGEN **THEME 4: SPACE & MATERIALITY** ALPER AL. ANNI MARTTINEN. HEIKKI MOILANEN. JEFFREY NIVELLE. JUHO KUOVI



Image 11. View on the addition to House of Culture. Original picture by Wittenborn & Company, altered by the authors.



Image 13. View on small addition to Tingbjerg library Original picture by Rasmus Hjortshøj, altered by the

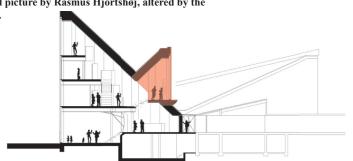


Image 12. 3rd floor floorplan of the

altered by the authors.

House of Culture with addition. Origi-

nal image by Wittenborg & Company

Image 14. Section of the Tingbjerg Library with the addition. Original image by COBE architects, altered by the authors.

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THE HOUSE OF CULTURE. SMALL ADDITION

history of Kulttuuritalo.

asymmetrical form of the concert hall space Kulttuuritalo in this modern day society. and the undulating facade it created. The asymmetrical concert space was rare during TINGBJERG L. SMALL ADDITION the time the building was build and is a good example of Aalto's eagerness to try Additional space can be used for more private new innovations and ideas in practice. The meetings or for functions that require more political aspect of the building is connected quiet environment. This more private space to its original owner the Finnish communist offers a contrast to the open concept. Keeping party. The construction work was done largely the existing building's own language while by volunteers and it was a subject of public still preserving its own identity and stand out conversation at its time. Later when communist as a clear addition to original was essential. party went bankrupt they were forced to sell it and it's now owned by the Senate Properties. The new part is placed on the other side of the We examined the building partly against this building. Its own identity is still further left-wing political background and wanted to emphasized with metal sheet façade material somehow detach the new addition.

We decided to merge these findings of hierarchy among the users to the building.

When we studied the Kulttuuritalo the two We created an capitalistic glass parasite features caught our attention. On one hand the extruding from the side of this Alvar Aalto's strong architectural language typical for Alvar masterpiece an old rallying place of left-Aalto and on the other the strong political wing -finns who lost it due to the their own bad financial situation. This kind of extension would be sure to provoke some public We focused particularly to the fan like debate and rising the question of the role of

that sets it apart from the wooden facade system of the library section.

this strong architectoral form and political Like in Kultturitalos addition; we wanted the contradiction. We placed the parasite-like function to provoke some conversation about addition to the top of the auditorium seats as the role of the building. So we though how to an additional VIP-section. We aimed to the contradict the idea of open for all equal public maximum contrast between the materials of space. We ended up in private rentable space the old and the new. This approach brought for private meetings and events. This created a capitalistic idea of creating an economical striving question on how the public and private space can interact?

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ALPER AL ANNI MARTTINEN. HEIKKI MOILANEN. IEFFREY NIVELLE. IIIHO KIIOVI

CONCLUSION



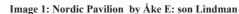




Image 2. Reindeer Pavilion by Rasmus Hjortshøj

Nordic Pavilion for the Venice Biennale (1958 - 1962) by (Archeyes, 2016). The Venice Nordic Pavilion can still be overlooking the Dovrefjell mountains (Snohetta, 2011). Sverre Fehn has become an iconic building, a quintessence visited today in the Giardini. of what we nowadays call Nordic architecture. Even after 59 years it draws attention of the visitors and remains a landmark of architectural thought.

It was designed to represent Sweden, Finland, and Norway. projects undoubtedly have particular similarities in terms of is a project that deals with Nordic identity. In his work, Fehn design approach. "makes an analogy between building and storytelling and between materials and language" (Neveu, 2008, p.1).

Four years before, the architect had designed the Norwegian Pavilion for the 1958 Brussels World Exhibition that was

To analyse the peculiarities of Nordic architecture in depth es and wildly recognized by the architectural community we have chosen the Wild Reindeer Centre Pavilion (2011) (ArchDaily, 2011). by Snohetta as the second case study for our paper. These

The Norwegian Wild Reindeer Centre Pavilion is located at Hjerkinn, overlooking the mountain Snøhetta. The building is open to the public and serves as an observation pavilion for the Wild Reindeer Foundation educational programmes. subsequently demolished but already used the same language A 1.5 km hiking trail leads visitors to this spectacular site

The Pavilion has been awarded multiple architectural priz-

NORDIC PAVILION & WILD REINDEER CENTRE PAVILION INTRODUCTION HANNAH SHEVCHENKO. MARGARITA VODNEVA

CONTEMPORARY ARCHITECTUR

NORDIC PAVILION & WILD REINDEER CENTRE PAVILION INTRODUCTION HANNAH SHEVCHENKO. MARGARITA VODNEVA



Image 3. Original image: unknown author



Image 4. Original image: Piazza San Marco by Sergey Gruzdev



Image 5. Original image: Nordic Pavilion by Åke E: son Lindman

we were aiming at learning, what are the relationof Venice, in the centre of Piazza San Marco.

Creating such a contrast we gain a unique chance to observe the dialog, in which two époques start It is fascinating to explore the interaction of plain speaking to each other. The objects, that may seem to be antagonistic and even hostile to each otharchitectural object can be noticed.

Being an alien, that came from a different period and being a perfect specimen of architectural traditions of modernism, Nordic Pavilion fits seamlessly in urban reality of Renaissance. The language it speaks resonates in historic buildings and allows them to sound together as an amazing multi-voiced ensemble of urban architecture.

The revision of the interiors reveals the spatial aspects of the project. By means of changing the environment we transform minimalistic modernists interior into a time portal, a contemporary camera obscura, through which the world of Renaissance can be witnessed.

Disregarding the contrast in architectural styles, the modern hall fits organically in the tissue of the renaissance city. There are corresponding elements, that bare the same architectural functions, but are implemented with different architectural interpretation. For instance, the role of elaborately decorated

In the framework of "History and context" research open galleries, going through the ground floor of the palaces around the piazza is played by the slidships between the past and the future in architecing glazed doors, placed along the three out of four ture. Fantasizing about establishing a link, sort of a sides of Nordic Pavilion. By that the same effect bridge, connecting two historical periods, we transfer Nordic Pavilion from its original calm, green massive eaves allow the visitors to walk in a deand, in a sense, Scandinavian ambience to the heart sirable shade of them. However, in contrast to the galleries, there are not any visible bearing columns, so that the roof is soaring over the building.

concrete walls and detailed marble facades, decorated with bas-reliefs and mascarons. The walls of er, nevertheless begin to interact on the level of the pavilion would be more likely decorated with the city landscape. At this point, such distinguish frescos and its floor with mosaics, if it belonged features as scale, proportions, architectural décor, to the Renaissance. Yet they are clean and plain, spatial aspects and many other peculiarities of each which makes them a perfect frame to observe the renaissance urban landscape.



Image 6. Original image by Keti Jakobsen. Altered by authors.



Image 7. Original image by Keti Jakobsen. Altered by authors.

The design of the the Wild Reindeer Centre Pavil- fortable. The user is now exposed, unprotected, it ion was guided by the nature surrounding it. Form following the context (Snøhetta, 2011).

interior provides a welcoming and intimate atmosphere. The view of the user is focused on the landscape providing an opportunity for contemplation. contemplation – people watching. Materials are chosen to withstand the harsh environment and have high durability (Divisare, 2012).

rounding nature. For purpose of testing pavilion's context. The collage illustration presents the buildings new identity within a city environment. And not just any city but one of the most crowded capitals - New York. Here the pavilion is surrounded with multiple screens bursting with colors and text. The calm landscape is now replaced, and our building is clearly out of place. The interior however still provides a clear attraction point. The structure would clearly become the new place to take a picture with friends. It still provides a certain level of calmness due to the shape of the wood, however the previously intimate space is now exposed.

Looking from the perspective of the viewer. Previously whoever was inside would experience a breathtaking natural landscape. You are the sole observer at that moment and your thoughts can flow peacefully, gaze reaching the horizon.

The new context would make many feel uncom-

is almost like a confrontation between the user and the crowd outside. The atmosphere has shifted from calm to threatening. There is however a possibili-The hard shell protects the user while the curvy ty. If nobody could see inside, the user once again would be the sole observer of the surroundings,

If we replace the glazing inside the pavilion with the screens, mimicking the ones outdoors, but The building seems to blend gently with the sur- broadcasting nature instead of advertisement, the pavilion becomes a shelter from the hustle and busversatility we chose to create an exact opposite tle of the big city, taking the visitors into the world of wilderness.

NORDIC PAVILION & WILD REINDEER CENTRE PAVILION THEME 1: CONTEXT & HISTORY HANNAH SHEVCHENKO. MARGARITA VODNEVA

NORDIC PAVILION & WILD REINDEER CENTRE PAVILION THEME 1: CONTEXT & HISTORY HANNAH SHEVCHENKO. MARGARITA VODNEVA

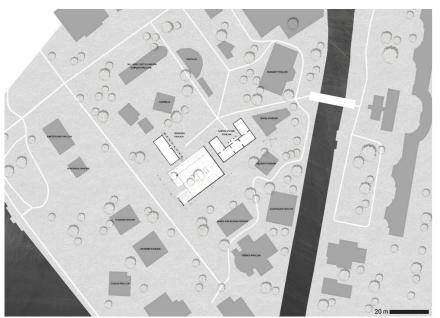


Image 8. Original image by Sverre Fehn. Altered by authors.



Image 9. Original image by Sverre Fehn. Altered by authors.

pography of the site.

Fehn was given a site in the public gardens between the pavilions for the United States and Denmark The trees, that surround the pavilion in the original on the secondary axis of Viale Trento (Archeyes, banism: each of the pavilions is for display only. are no full-time residents.

The pavilion burrows into the slope of the southeast corner. The opposite walls, on the north and west side, were intended to be open, allowing the circulation to continue through the building and exhibits. The grid, which might otherwise appear monotonous in its rigidity, is interrupted by a series of openings through which the trees erupt from the ground to punctuate vertically through the lamellas roof.

Seen in elevation, the rhythm of the roof matches the pattern of the triglyphs on the façade of the neighboring pavilion for the United States (Neveu, 2008). So that the building communicates with the surroundings using its own unique language. The project is well situated and it seems that it could not be placed anywhere else and work in the same way.

Nonetheless, the pavilion fits organically into a new context of a monumental Piazza San Marco.

The Nordic Pavilion is more than an assemblage Due to the minimalistic shape Nordic pavilion does of parts. It is the "synthesis of the heterogeneous" not interrupt the outlines of the Renaissance piaz-(Paul Ricoeur) implemented through the spatial za. Instead of that, it turns into a focal point. The ideas and interaction between walls, ground, roof, centre of the square, which is normally occupied landscape – all framed by its relationship to the to- with a column or monument is now filled with the rectangular pavilion, that starts to serve as an urban sculpture.

park are now replaced with the columns of the pe-2016). The gardens present an unusual sort of urdestrian galleries on the ground floor and instead of randomly erupting international pavilions, floating All of the buildings remain unused for most of the freely in the space of the garden, we can see a rigid year, the entire site is within a large park, and there perimeter, becoming a perfect frame for the modernist masterpiece.



Image 10. Original image by Sverre Fehn.



Image 11. Original image by Snøhetta. Altered by authors.

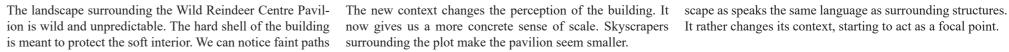
leading up to the pavilion, marking hiking routes.

There is little regularity and order in the site plan, from above

the structure presents itself as a monument of human exis-

tence in the wilderness of the mountain terrain. The context

in this case does not limit or frame the building, it allows it to



Masterplan structures provide guiding axis to where the pavilion is placed. In comparison with the original location, the building is now in a more familiar context than before, following the rigidity of manmade creations.

Surprisingly, the pavilion does not seem to be lost in the city



become what it wants to be.

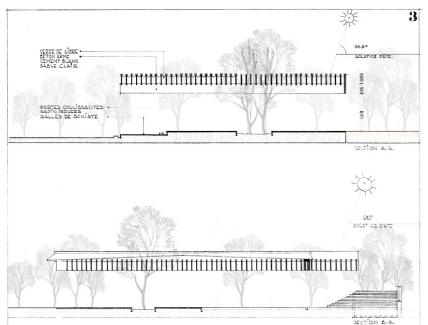


Image 13. Original image by Sverre Fehn. Altered by authors.



Image 14. Original image: Nordic Pavilion by Åke E: son Lindman

Nordic Pavilion is a plain rectangular hall of 400 Fehn explained that the goal of his project was to one on top of another, form a 2-meter high brise 1999, p.21).

beams. These plastic units bring an oriental, specifically Venetian tone to the strict scandinavian articulation of the pavilion.

come the force of gravity? We dare to eliminate the walls and two massive bearing beams so that remaining the trees inside unsupported space as the only vertical elements. As the matter of fact, the levitating roof is in a way a quintessence of the ideas that Fehn maintained in his design.

During his travels in Italy, Fehn was moved by the quality of light. In his memoirs he explained: "In the north you are moving in the fog, you are moving in a world which has no shadows, in a way where the shadows do not define anything. If you make a piece of architecture in the south of France or in Italy, the shadow is there immediately, you can make a little curve in the wall and you'll see it at once. But the sign would be invisible in the North. It is another light in which you walk. And that also makes architecture more mysterious, more romantic, more undefined" (Norberg-Schulz and Postiglione, 1997, p.249).

It appears, that through his travels, he recognized the distinct nature of Nordic light. The Nordic Pavilion project then becomes a way of finding that Nordic quality of light in a different context.

sq.m, open entirely on two sides. The most remark- "construct a roof to protect the paintings and sculpable element of its composition is undoubtedly a tures from direct sunlight, and to provide an atmotransparent, soaring roof, whose structure consist- sphere of the shadow-less world of Scandinavia, ing of two overlapping layers of concrete beams, where the work of art had been created" (Neveu,

Fehn carefully carves out a shadowless light using The beams are suspended between the uppermost local means and materials. Like a skillful interpreter he is re-telling a Nordic story in a foreign language.

In our collages we release the roof structure so that it could exist independently, not being restrained But what if we imagine that the building can over- from its main function – to provide a shelter with a unique atmosphere and a specific quality of light for a comfortable unhurried observation within.



Image 15. Original image: Nordic Pavilion by Åke E: son Lindman. Altered by authors.

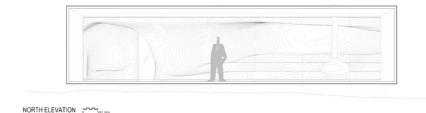


Image 16. Original image by Snøhetta.

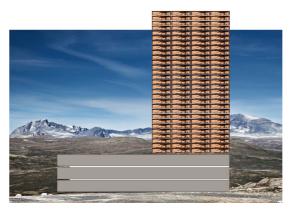


Image 17. Original image by K.Jakobsen. Altered by authors.

The Wild Reindeer Centre Pavilion has been designed in a way to provide a place for contemplation and observation wilderness of the exterior and calmness and safety of the interior. It creates a landmark by default, due to its singularity within the landscape.

is there alone. The figure in the elevation is placed for scale, tiplied. but it can also provide the desired atmosphere of the building

design as a unit. The building is multiplied in order to create ism intervention taking place over the world nowadays. Once (Divisare, 2012). It creates a momentary break between the a different but very familiar structure - multistorey residenout of control, it threatens to engulf the natural landscape, tial block. The pavilion loses it sense of uniqueness; it is no turning it into something completely different and hostile. longer one of a kind. It becomes one of multiple, the familiar features of the wavy interior are dissolved in the multitude.

The elevation provides the scale of the building, its north The suggested alteration also changes the geometrical perfacade is about 13 meters long and the buildings can acception, going from horizontal to vertical. This rather extreme commodate approximately 10 - 15 people at once. However, transformation gives some insight into how the perception of rather interesting experience can be achieved if the observer a certain design can be drastically changed if copied and mul-

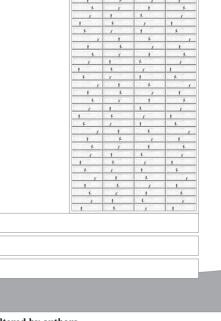


Image 18. Original image by Snøhetta. Altered by authors.

Changing entirely the typology of the building and using its
It also reminds us about the issues related to a massive tour-

NORDIC PAVILION & WILD REINDEER CENTRE PAVILION THEME 3: TYPOLOGY & ORGANISATION HANNAH SHEVCHENKO. MARGARITA VODNEVA



Image 19. Original image: Nordic Pavilion by Åke E: son Lindman. Altered by authors.



Image 20. Original image: Nordic Pavilion by Åke E: son Lindman. Altered by authors.

specifically Nordic?

sition of both pavilions is defined by the articulated vious. roof plane, both pavilions have as less perimeter concrete. But why?

As we already noticed, the roof structure of the Nordic Pavilion in Venice with its elaborated intersections of beams brings the oriental motives and Venetian tones to the pavilion. The material Fehn used for it reveals his real skill in choosing of means of implementation of his artistic idea. To preserve the light's intensity, the entire building was cast in a mixture of white cement, white sand, and crushed white limestone of Venice (ArchDaily, 2021). Thus, the materials are not only native to the area, corresponding with the decoration of the palaces and light colours of the architectural details. They work along with the roof plate creating that unique nordic shadeless light. The light making the pavilion truly Nordic.

That brings us to the conclusion, that rather than simply mimicking the Norwegian Pavilion in Brussels or a vernacular wooden hut from Norway, Fehn

What has Fehn done to make the pavilion in Venice has made an imaginative translation of Nordic architecture into a foreign context.

It is known that Fehn won the competition to de-Since we have got to the point, where Fehn's desire sign the pavilion in Venice after completion of the to get rid of the vertical elements is clear, we may Norwegian Pavilion in Brussels (Archeyes, 2016; witness hot it results in creating a spacious and airy ArchDaily, 2021). In many ways the project in interior and giving that interior the certain qualities Venice echoes some of the same issues raised by of lite. At this point, the choice of concrete as the its Brussels counterpart. The architectural compo-

walls as possible, both blur the distinctions be- In the collages we tried to imagine what the paviltween interior and exterior. However, the projects ion would look like if Fehn could use contemporary clearly differ from each other as being supposed CLT beams instead of the concrete elements. We to match the context and convey the different messages. That is why Fehn chose different materials the same if we substituted concrete with CLT. Unfor each of them. Whilst the Brussels pavilion is like natural wood, where the length of a beam is entirely wooden, his Venetian opponent is made of strictly limited by 6 meters, CLT would allow to leave the initial idea of not using supporting columns intact.



Image 21. Original image by K.Jakobsen. Altered by authors.

The essence of the Wild Reindeer Centre Pavilion is to create a place of observation and contemplation (Divisare, 2012). In this manipulation the view is removed entirely, and the glazing is replaced with a wooden surface. The experience becomes entirely internal, cut off from the outside landscape.

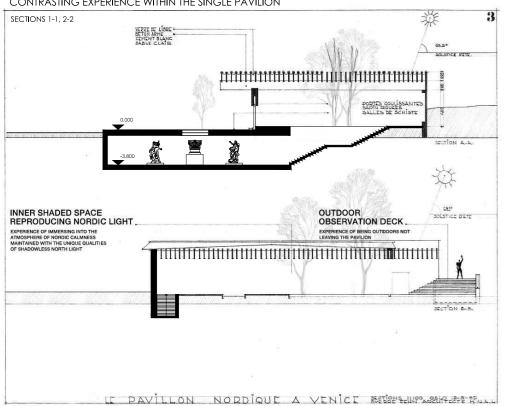
Interestingly, the observer from outside cannot see the interior either. The pavilion becomes a space for isolation rather than observation. It creates a certain mystery around its content. The solid mass becomes a sculptural tribute to seclusion and isolation.



Image 22Original image by K.Jakobsen. Altered by authors.

NORDIC PAVILION & WILD REINDEER CENTRE PAVILION THEME 4: SPACE & MATERIALITY HANNAH SHEVCHENKO. MARGARITA VODNEVA

CONTRASTING EXPERIENCE WITHIN THE SINGLE PAVILION



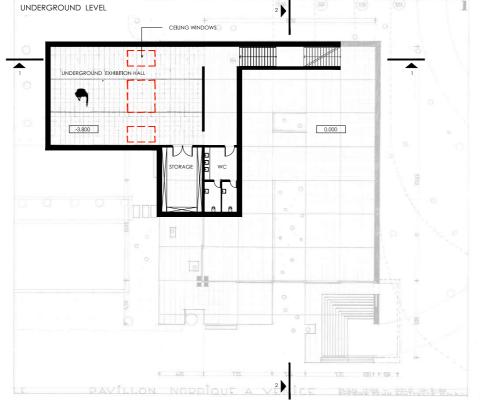


Image 23. Original image by Sverre Fehn. Altered by authors.

Image 24. Original image by Sverre Fehn. Altered by authors

ates a range of experiences for visitors. The fascinating jour- openings. ney starts outdoors, when spectators can witness the exquisite on the ground level of terraces or get up to the observation desk and interact with the building from outside.

The next step is an emersion into the world of Nordic light within the shaded hall of the pavilion. Spectators stay inside This underground exhibition hall, lit only with the narrow

NORDIC PAVILION & WILD REINDEER CENTRE PAVILION

HANNAH SHEVCHENKO. MARGARITA VODNEVA

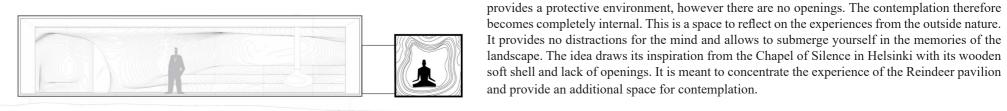
Nordic Pavilion by the means of its versatile spatial ideas cre- yet being connected with the surroundings through the wide ceiling windows is contrasting with the ideas of existing

We suggest adding an underground level matching the grid ing the modern standard of public spaces. of the pavilion.

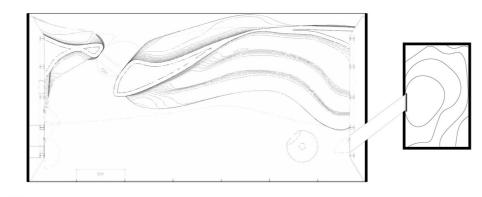
spaces – open outdoor deck and enclosed shaded interior.

architectural composition from outside. They can either stay In our opinion it would be quite logical to complement the Moreover, some underground space can be used for accombuilding with one more possibility for producing scenarios. modating utilities, such as toilets and exhibits storage meet-

CONTEMPORAR REHITEGIU



North elevation



Plan Strom

Image 25. Original image by Snøhetta. Altered by authors.



Image 26. Original image of Chapel of Silence by K2S Architects by Antonin Halas

OVERALL CONCLUSION

and provide an additional space for contemplation.

The question this paper was driven by is: what makes Nordic architecture so distinctively unique? In order to find a clue, we compared two buildings that are similar in function, but different in purpose and character, being separated by more than half a century of architectural history.

The new extension echoes the interior of the Wild Reindeer Centre Pavilion but yet, it creates a

rather different experience for the user. The scale suggests a solitude experience, the wavy interior

Both pavilions define an interior space with a minimum of enclosed walls, both blur the distinction between interior and exterior, allowing one to flow freely into the other, and both rely on the site for clues to organize projects so that their spatial organization is in a close alignment with the environment. If we turn to the interior, we will find another undeniable similarity. The goal of both projects is certainly to create a comfortable environment for visitors. It is worth noticing that the projects use different approaches to achieve this goal. In the case of the Nordic Pavilion, Fern creates an exhibition space that allows on the one hand to protect the exhibits from the scorching sun, and on the other to immerse the viewer in the atmosphere of the northern shadowless light. In the Wild Reindeer Centre Pavilion project, the architects focus was on creating the contrasting comfort of the interior space and the wilderness behind the huge frameless windows. The minimalistic interior allows the audience to focus on their inner emotions by creating a protected and warm gathering place, while still preserving visitor's access to spectacular views.

These similarities in design approaches bring us to the point that Nordic architecture is not a set of certain elements or a particular style, but something much more complex. This is a unique system of architectural thinking, characterised by such aspects as: unity with nature - buildings are derived from the existing area, becoming an inseparable whole with the environment; spatiality the architectural articulation of buildings is always subordinated to the general spatial idea, where elements of the architectural composition work like an orchestra, enhancing the visual and emotional perception of the audience; atmosphere - the focus is on the viewer and their feelings, architectural composition serving as a method for creating spatial patterns is never an end in itself.

Thus, we come to the conclusion that Nordic architecture can be defined by a certain attitude to space, materials and, most importantly, the highest degree of humanity.

NORDIC PAVILION & WILD REINDEER CENTRE PAVILION CONCLUSION HANNAH SHEVCHENKO. MARGARITA VODNEVA

CONTEMPORAR ASCHALLE CHILL

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Image 3: PhotoSite. Retrieved 13.3.2021 from https://photosigh.ru/5205678/

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HANNAH SHEVCHENKO, MARGARITA VODNEVA

CONTEMPORARY NORDIC ARCHITECTURI 202 NORDIC PAVILION & WILD REINDEER CENTRE PAVILION

CONCLUSION

HANNAH SHEVCHENKO, MARGARITA VODNEVA

CONTEMPORARY NORDIC ARCHITECTURE 2021



Built:1960

Architect: Arne Jacobsen

Location: Copenhagen city centre, Denmark Function: Hotel and downtown air terminal

Rooms: 260 Hight: 69,6 meters

Royal SAS Hotel is a hotel and downtown air terminal located in the centre of Copenhagen. As 22 floors high, it was the first skyscraper in Copenhagen. The architecture of Royal SAS Hotel was highly impacted by the Lever House in New York designed by Gordon Bunshaft and Nathalie de Bloi. (Hordum, 2017)

Royal SAS Hotel is an example of the total work of art, which means that all the project parts are considered as whole. Jacobsen designed the building but also the interior, the furniture and even the cutlery. This trend was visible along with other Nordic Architects like Alvar Aalto. Unfortunately, the interior spaces have been discarded and altered. The interior has been preserved only in one of the hotel rooms, but some of the furniture Jacobsen designed have become national icons. (Reuben, 2017)

Jacobsen, who used to work as a landscaper, thought about the modern garden and the effect of nature in his design. This can be seen in the interior of the building that had green furniture and simple materials. (Hordum, 2017)

Image 1. Unknown. Retrieved 21.3.2021. https://www.scandinaviandesign.com/a-special-tribute-to-arne-jacobsen-and-the-60th-anniversary-of-the-sas-royal-hotel/

VICTORIA TOWER

Built: 2011

Architect: Wingårdh Arkitektkontor

Location: Kista, northwest of central Stock-

holm, Sweden

Function: Hotel, restaurants, offices, confer-

ence spaces, sky bar Gross floor area: 23 000 m2

Rooms: 299

Height: 114 meters

Victoria Tower is a hotel that consists of hotel rooms, a conference centre, restaurants, and offices. It is located in Stockholm in the Kista district. It stands along the road from the centre to the city airport and in the edge of the Kista IT office park. The 117-meter-high tower acts as a landmark and manifestation of the areas high-tech profile. Its 34 floors make it one of the highest buildings in Stockholm (Archdaily, 2012).

The tower has a unique parallelogram shape, that is topped with a slightly bigger cube. This parallelogram shape is also used in John Hancock Tower in Boston from 1976, designed by Henry Cobb, from where the architects found inspiration. The façade of the building is fully covered in glass panels (Archello).

Image 2. Åke E:son Lindman. Retrieved 21.3.2021. https://www.archdaily.com/227856/victoria-tower-wingardh-arkitektkontor-ab



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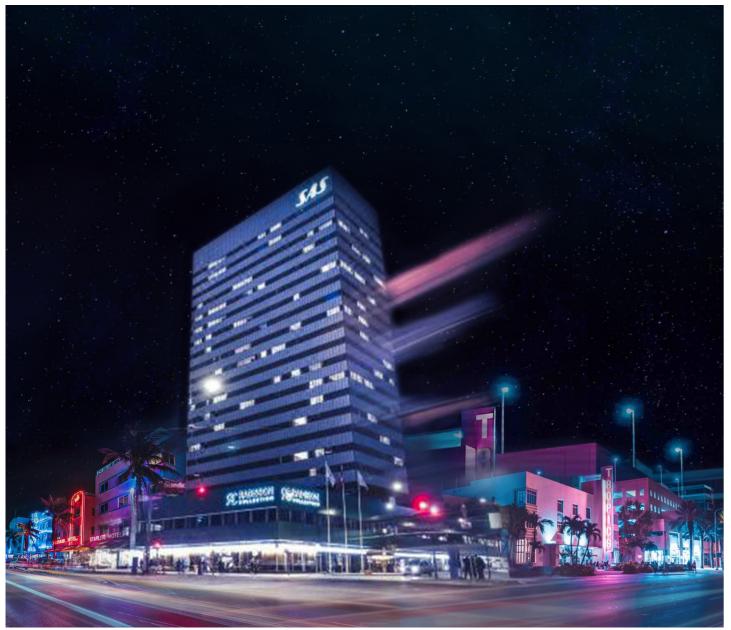


Image 3. Royal SAS Hotel enjoys a holiday in downtown Miami.

Royal SAS Hotel rises as a prime disciple of modernism. The local adjustment of the movement called functionalism do not efface the cosmopolitan look. The sleek tower depicts a universal solution. The elegant charm of the edifice does not depend on the very location it sits in. Modernism goes anywhere.

Miami is the somewhat unlikely home to Nordic design. Yet a tall glass-wrapped building portrays a wide-spread type. Naturally, some light articulation to the site is needed, but generally, the main idea remains the same. Post-and-beam construction combined with the floor slabs forms the skeleton over which the coat is free of choice. Playing in the home and away courts differ thinly. Royal SAS Hotel lands comfortably to the continuum of the American skyscraper tradition.

Certainly, Royal SAS Hotel is an iconic Copenhagen beacon. However, it is rather the time spent together between the city and the building that bonds the two than the original articulation as such. The building is designed to its surroundings by the conditions of the time, but the architectural language is conceived by speaking universally.

Image 3. Original image by Åke E:son Lindman. Transformed by the authors. Retrieved 21.3.2021, https://www. dezeen.com/2012/10/18/people-want-stockholm-to-be-alow-city-josefin-larsson-on-victoria-tower/

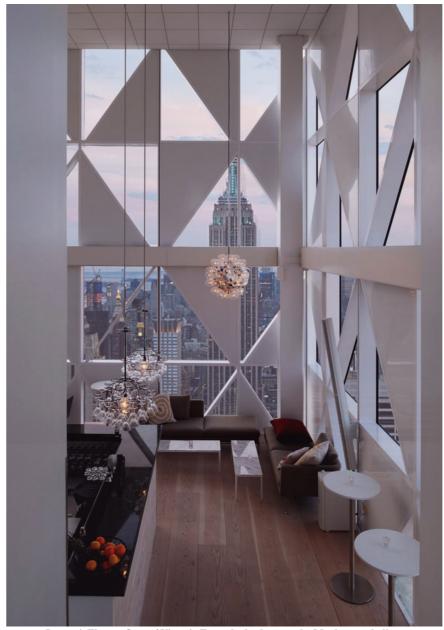


Image 4. The top floor of Victoria Tower looks down to the Manhattan skyline.

VICTORIA TOWER

Victoria is a newer take on Nordic hotel arversality as a tower that wears the same chitecture. The basic mass is similar to SAS dress suavely from Abu Dhabi to London, Royal hotel, but still, the look of the building and from Paris to New Amsterdam. For a is different. Both projects use glass as their century Manhattan has been the epitomic main façade material but in different ways. playground for the high-rise and lays a nat-Victoria Tower used a randomised pattern, ural place for migration. Victoria Tower is which is quite different from the SAS façade. not place-bound. It composes rather an ab-This randomization can be seen in many straction of a landmark figure than an in-situ modern Nordic projects. What makes it, articulated composition. This allows conveeven more, a presentation of its time, is that nient resettling, for instance in its spiritual computer-aided design was used to create retreat NYC. the façade pattern. The thing that Jacobsen could only dream of. What also sets them is apart is their height. Victoria is a presentation of the even more high buildings that of work, Victoria Tower composes an assemhave started to emerge in Nordic countries ble of its time, the early 21st century. The as well.

Victoria Tower has caused some controversy among the people of Stockholm, as the citizens would like to keep the capital region as it has been, dominantly low- to mid-rise. liver the objects in the room worldwide in a The public outcry on tall buildings poses a flash. question, how to build an appropriate tower? A tower that fulfils the demands of the stakeholders and serves the usages and fits the surroundings. Further, whether the tower is the desired solution.

In the relocation, Victoria Tower has steered clear from the ontological questions about its character and seeks refuge in New York City. Victoria Tower renders an idea of uni-

Whereas SAS Hotel has posed as a tour-deforce of Arne Jacobsen forming a total piece interior is an image of contemporary Scandinavian decor. The commensurate flat-pack solution is available for anyone anywhere across the globe. If the local IKEA branch does not serve on Sunday, Amazon will de-

Image 4. Original image author unknown. Transformed by the authors. Retrieved 21.3.2021. https://www.trip. com/hotels/copenhagen-hotel-detail-2197629/radisson-collection-royal-hotel-copenhagen/

ROYAL SAS HOTEL & VICTORIA TOWER THEME 1: CONTEXT & HISTORY INKA GRANSTEN. SINI HURRI. ALINA MUSTAMAA. OTTO OJANNE





Image 5. Royal SAS hotel in its original location

Image 6. Royal SAS hotel in its new location in New York City

Royal SAS Hotel is situated in the centre of Copenha- SAS Royal Hotel continues its American excursion in rises facing Park Ave and the plinth stretches along East even though their footprint in the area is alike Royal gram Building. SAS Hotels. The multiple open areas, for example, the park in the east and the railroad in the north, allow the Doubling the suave step back of Mies, the Royal Hotel building to be visible from far.

gen in a quite densely build area. Wide roads in between New York City. The Royal Hotel takes over the plot of 54th Street. buildings make the distances between buildings large. its original inspiration, the Lever House. The Midtown Its height makes it a landmark of the area and all the location sits a few blocks down from the southeast corsurrounding buildings are noticeably smaller in height, ner of Central Park and has a diagonal look to the Sea-

leaves an empty yard on both ends of the lot. The tower





Image 8. Victoria Tower in its new location in New York

VICTORIA TOWER

Victoria Tower is located in North Stock- The new location in New York is close to holm in the Kista district, and Victoria acts major landmarks such as the World Trade as a landmark to the IT-office park (Arch- Center and the 9/11 Memorial. These daily, 2012). Victoria Towers is situated large and tall buildings around the Victoon the border of this large area. The foot- ria Tower significantly reduce its monuprint of the Victoria Tower is significantly mental impact and what can be noticed is smaller than other buildings in the area, so that the Victoria Tower has its status highit must be higher to achieve its landmark ly because of its height. In this plot, the status and it is the highest building in the building is in a more densely build area area. The large highway, the parking lots which also affects how far it is visible next to it and the surrounding buildings from and what the reflective façade relower masses make it even more visible flects. In this plot, it probably reflects the and strengthen its role as a landmark of surrounding buildings instead of the sky. the area.

Image 7. Wingårdh Arkitektkontor. Site plan. Edited by authors. Retrieved 14.5.2021 https://www.archdaily.com/227856/victoria-tower-wingardh-arkitektkontor-ab

Image 8. By authors

ROYAL SAS HOTEL & VICTORIA TOWER THEME 2: LANDSCAPE & CITY INKA GRANSTEN. SINI HURRI. ALINA MUSTAMAA. OTTO OJANNE CONTEMPORARY ARCHITECTUR 2021

ROYAL SAS HOTEL & VICTORIA TOWER THEME 2: LANDSCAPE & CITY INKA GRANSTEN. SINI HURRI. ALINA MUSTAMAA. OTTO OJANNE





parts. The broad platform of 4 floors and on top of it lay the building are removed and replaced with a much lower the rectangular-shaped 22 stories high tower. The hotel tower has a very distinctive, yet very simple shape that dominates the city's skyline.

that the building façade resembles a punch card. The building. public was also worried the hotel would ruin the city's skyline because of the high difference to the existing city structure. The higher mass was justified because it would protect the hotel rooms from the noise of the streets.

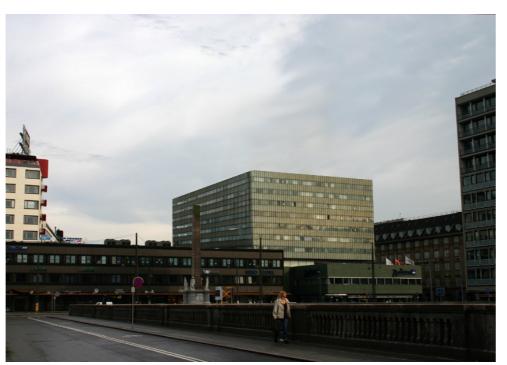


Image 9. Edited typology of Royal SAS hotel. Edited by authors.

The massing of the SAS Royal Hotel consists of two What if the monumentality and the dominant height of and square-shaped mass? Without the tower, the urban structure around the hotel seems empty. The transformation from high-rise to low and cubic mass has a negative effect on the function and the dignity of the hotel. The During the planning phase, Jacobsen received a critique building resembles a normal and undistinguished office

> Image 9. Unknown. Retrieved 21.3.2021. https://en.wikiarquitectura. com/building/radisson-sas-royal-hotel/ Victoria Tower



Image 10. Victoria Tower.



Image 10. Edited typology of Victoria Tower. Edited by authors.

VICTORIA TOWER

The massing of Victoria Tower is quite simple. Victoria tower stands on a quite low and wider pedestal, where the slender tower rises. This massing is simple and similarities in massing between our projects can be seen, even though the platform in Victoria Tower is distinctly smaller and its impact on the overall form is minor. The upper floors are in a parallelepiped form. The parallelepiped form of the tower is topped by a rectangular cubic so that the upper floors project out. (Archdaily, 2012)

This rectangular shape gives the building its unique shape and the heavier and bigger mass stands on the narrow tower. This is the part we wanted to emphasize, because it is the form that makes Victoria Tower unique, and it is the shape that the architects wanted to highlight. By highlighting this part, even more, Victoria Tower becomes more and more distinctive, and the rectangular part converts into an even more significant part of the building. The rectangular shape looks like it is defying gravity and the change of the shape in the tower is even more visible. However, this bigger mass overshadows the lower floors drastically, which has an impact on the indoor spaces. The new mass also slightly resembles the letter T. These points make the present small rectangle more justifiable.

Image 10. Arild Vågen, 2015. Retrieved from https://commons. wikimedia.org/wiki/File:Victoria tower October 2015 01.jpg edited by authors

Jacobsen uses green aluminium and green and green-grey tainted glass in the façade of the Royal SAS Hotel. These panels, as well in the Victoria Tower, reflect light and the look of the façade differs when the surrounding atmosphere changes. (Hordum, 2017)

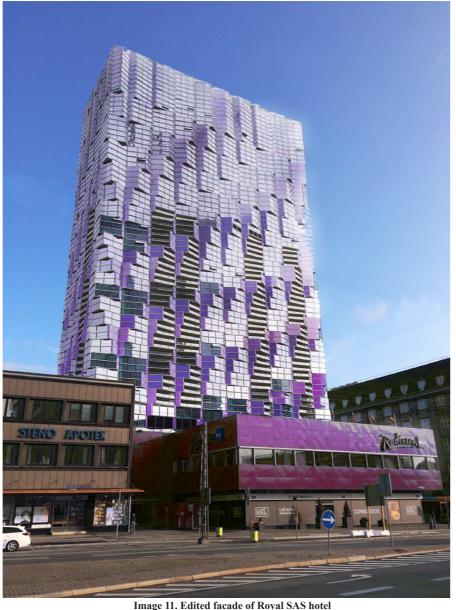
The Royal SAS hotels façade pattern is more regular and the use of the golden rectangle can be seen in the placement of the windows. On the other hand, the quite regular façade is an example of the industrialisation of building construction that emerged in that time. (Danish Design Review)

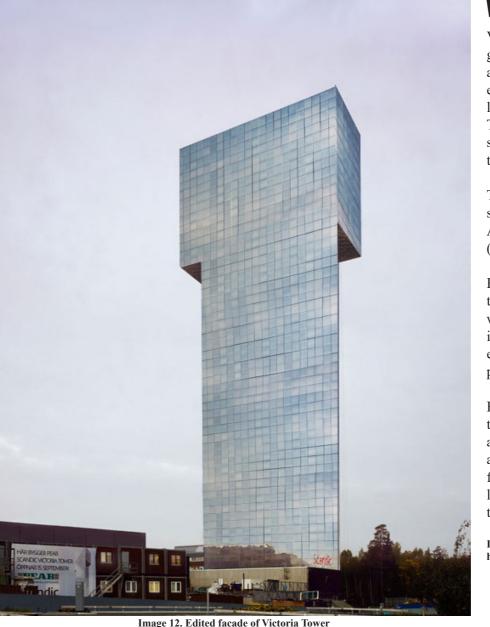
In the earlier themes, we have located the SAS building in New York where it fits right in. This time, we were inspired by Elenberg Fraser's residential skyscraper in Melbourne (Light House).

By turning the systematic façade into a three-dimensional kaleidoscope and adding vibrant colours we wanted to bring the tower into life. The colourful angular facade panels are twisted around the building which creates intriguing movement to the façade, but the horizontal floor lines are still visible in the mass. The panels also reflect the Sun as the original SAS Hotel panels do, but this time the angularity makes the building more interesting, and the Sun rays are reflected differently.

As a result, the building still looks out of place and time. The original facade, grey and greenish panels were carefully chosen by Jacobsen to match the Nordic climate and Sunlight. The overall look and the colour palette of the surroundings of SAS Hotel are very down to earth and balanced and consequently, it is not essential to add bright colours to the façade.

Image 11. Unknown. Retrieved 14.5.2021. https://www.e-architect.com/copenhagen/ sas-hotel-copenhagen





VICTORIA TOWER

Victoria Tower façade is made using irregular metal coloured glass panels and random placement gives the façade its character. The façade is fully wrapped on these glass panels. The eight different types of panels are placed in a way that regular pattern in the façade cannot be noticed. (Archdaily, 2012) This is achieved by using computer-aided design and special software was developed to help to create this randomized pattern (Archello).

The reflectivity of the panels allows that the changes in the season, weather and daylight make the façade look different. Also, the viewers perspective affects the look of the façade. (Archello)

Behind some glass panels, thin metal oxide panels are used to give the façade its solar shading and insulating qualities, which also makes irregular patterns in the inside of the building as well in the outside (Archdaily, 2012). These metal panels will not let light out and this makes some more random patterns in the façade during evening and night.

By changing the materiality, we wanted to focus on removing the most distinctive theme of Victoria Tower, the irregular triangular façade. This allowed us to see how much the material and opening affects the look of the building. By replacing the façade with typical glazing, the Victoria Tower looks more like a commercial building than a hotel. Despite the change, the building retains its placelessness and lack of scale.

Image 12. Åke E:son Lindman. Edited by authors. Retrieved 21.3.2021 https://www.archdaily.com/227856/victoria-tower-wingardh-arkitektkontor-ab

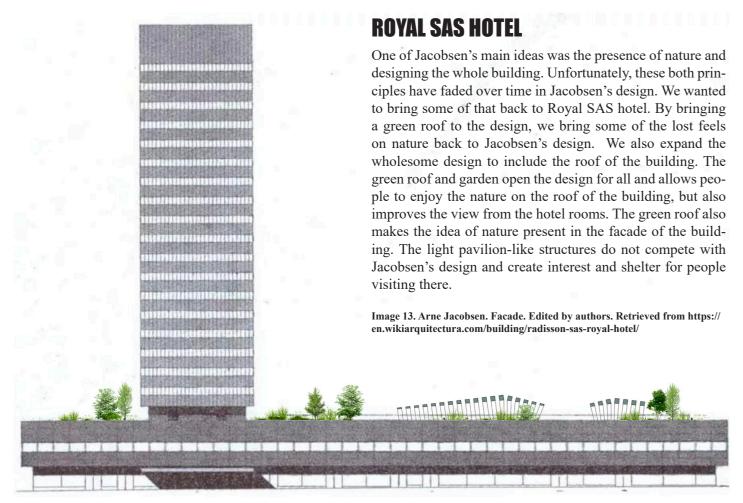


Image 13. Edited roof of Royal SAS hotel

ROYAL SAS HOTEL & VICTORIA TOWER CONCLUSION INKA GRANSTEN. SINI HURRI. ALINA MUSTAMAA. OTTO OJANNE CONTEMPORAR ARCHITECTUI

VICTORIA TOWER

The façade of Victoria Tower is made of a fully reflective material that prevents interior functions from being visible outside the building. The material is also the same on the ground floor, which creates a unified architectural look but does not attract people into the building. We wanted to open the hotel's more public functions such as the restaurant to the outside. We decided to expand the restaurant with an open glass terrace that creates activity on the ground floor. The greenery on the terrace emphasizes the entrance of the building and the terrace brings the indoor functions more visible.

Image 14. Wingårdh Arkitektkontor. Site plan. Edited by authors. Retrieved 14.5.2021 from https://www.archdaily.com/227856/victoria-tower-wingardh-arkitektkontor-ab

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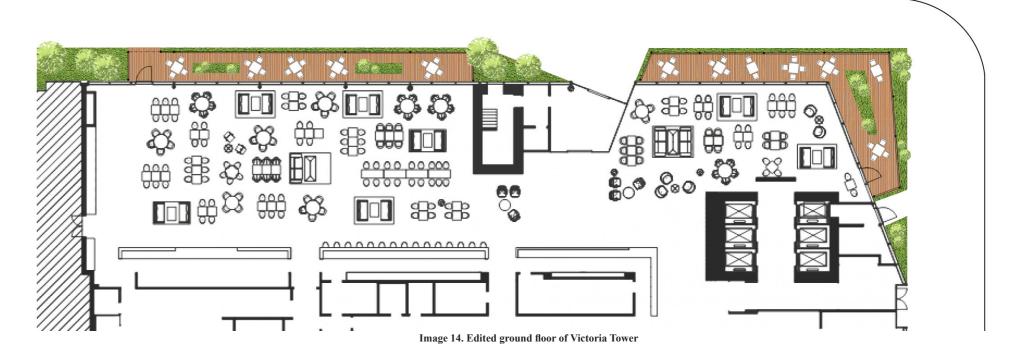
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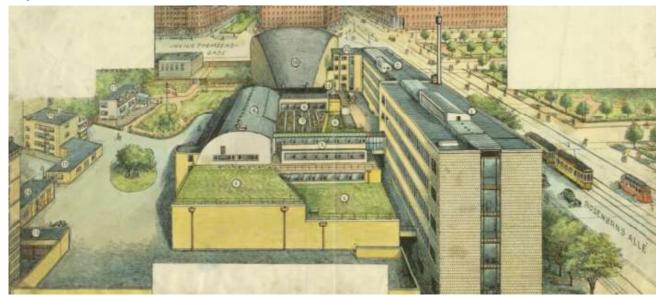
ROYAL SAS HOTEL & VICTORIA TOWER

CONCLUSION

INKA GRANSTEN. SINI HURRI. ALINA MUSTAMAA. OTTO OJANNE

CONTEMPORAR ARCHITECTU





RADIOHUSET

Radiohuset is a building complex in Copenhagen designed by Vilhelm Lauritzen. It was built in 1945 and later expanded in 1958 and 1972. Radiohuset was originally the headquarters of the national Danish broadcasting corporation DR until 2006. Since August 2008 the building has hosted the Royal Danish academy of music.

Radiohuset is a large complex which represents the importance of radio as a main media source in its time. It's functionalist style and has a simple, clean look. The facades have long rows of symmetrical windows. The main building material is concrete which enables creating wide unbroken internal spaces, such as the concert hall.



Image 3

KILDEN PERFORMING ARTS CENTRE

Kilden is a theather and concert hall in Kristiansand, Norway. It's designed by Finnish ALAArchitects and Norwegian SMS Arkitekter. The building was completed in 2012.

Kilden has a gross area of 16 000 square meters and a volume of 128 000 cubic meters. The concert hall is designed to accommondate 1200 people. The theather has a capacity of 700 people.

Kilden has a monumental abstract form. It's a strong element in its environment – it seeks to stand out. The front façade has a wave-like design and is made of local oak. The curved wood is combined with a glass wall. The other facades are simple and black which emphasizes the power of the front facade. According to the designers the abstract form separates reality from fantasy.





RADIOHUSET

In this exercise the Radiohuset has been placed into countryside. The place The surroundings and a context of a building reveal a lot about its functions and differs a lot from its original place since it is located and designed in the raise ideas of the purpose of the building. In a city context it seems clear that middle of a city: the plot has strict borders up into which the building has been the building is a public one and maybe even a concert hall, whereas in a middle constructed and thus got the mass and size. In a city site, all the facades and of a forest it gets a feeling of a purification plant, factory or an old sanatorium masses conversate with the surrounding buildings and the context. Now that the or a hotel. building is placed into a very different site from the original one, the massing and facades seem a lot more questionable. Unlike in a city centre, the new location We choose the countryside exactly for the great difference and contrast. We rouses questions like why is it constructed, why is it here and why the massing wanted to see how the lack of the surrounding context change the building. and facades are the way they are. In its original location those questions seem more justified by the context.





KILDEN PERFORMING ARTS CENTRE

The Kilden performing art centre is located at the bank of a harbour. It has much space around it due to its location by the water and thus it can be fully appreciated from a distance.

Here the reason for the new location is again the contrast. We placed the art centre in the middle of an Italian plaza. As many plazas of Italia, this one's also quite small and follows the design guidelines of Camillo Sitte. Now that the building is placed in the middle of carefully massed, similarly sized buildings, it seems to fall onto the pavement and the pedestrians. In the harbour the building's façade create almost a protecting atmosphere to its surroundings whereas in the plaza it feels like it's attacking or confrontational.

RADIOHUSET & KILDEN PERFORMING ARTS CENTRE

THEME 1: ANOTHER TIME AND PLACE - RADIOHUSET TOVA FINEL, ALMA SIPPOLA, JANINA VIRTANEN, ANNA-KERTTU YRJÄNÄ

RADIOHUSET & KILDEN PERFORMING ARTS CENTRE

THEME 1: ANOTHER TIME AND PLACE - KILDEN TOVA FINEL. ALMA SIPPOLA. JANINA VIRTANEN. ANNA-KERTTU YRJÄNÄ

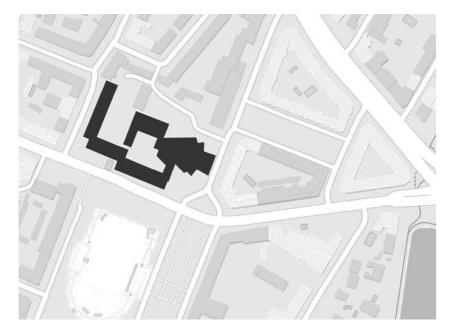
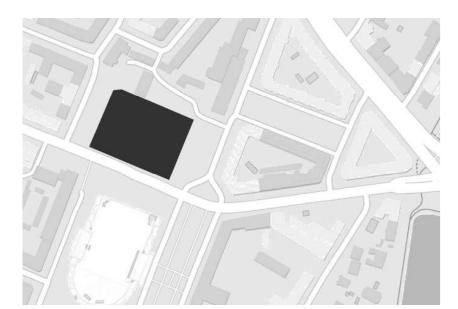


Image 8



RADIOHUSET & KILDEN PERFORMING ARTS CENTRE

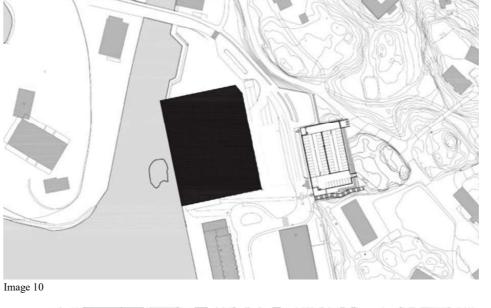
THEME 2: NEW LOCATION - RADIOHUSET

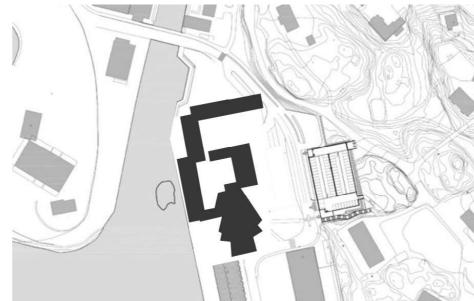
Image 9

RADIOHUSET

Radiohuset is located in the center of as well, but it changes at some point and Copenhagen. The plots in the area are built the geometry becomes more organic. These densely and the buildings follow the borders features make Radiohuset stand out from the of the plots, forming an inner courtyard in other buildings in the area. Next to Radiohuset the middle. Radiohuset follows these same is an indoor arena, which looks a little strange compliances. The part of Radiohuset, where in that context. the concert hall is located, is an exception with its freer geometry, which stands out in the site plan. Also, the scale of that part of the building is in contrast with its surroundings. Redbrick is the most common building material in the area, which was not used in Radiohuset. The facades of these brick houses are very symmetrical. That was partly implemented in Radiohuset

We found it interesting to swap the locations between our two study cases. This way we could see and compare the size of the two buildings. Kilden is placed onto the original site of Radiohuset. We can see that Kilden is actually really large building. In our opinion Kilden fits to the site because the space seems suitable and because there's Forum Copenhagen (operates as a convention center, concert hall and indoor arena) just across the street. The Forum's is the same scale as Kilden. On the other hand Kilden seems way too big for this area, if you compare it to the other buildings and their masses.





KILDEN PERFORMING ARTS CENTRE

Kilden is placed in the harbour site of explains the organic surface to represent a big mass like Kilden's doesn't pop out clad produced nearby. or on the other hand shrink between the bigger masses. For the location of the bank of the harbour, the Kilden has wide open space of water in front of it. It's the natural direction for the opening design of the main façade. The Arch20 internet site

Kristiansand. The harbour area isn't very the nature of Norway and to create contrast dense, neither is it an empty landscape. between the sharp edges, the wavy shapes The building mass of the area consist of of the façade and the calm waters of port big harbour halls, active ones and those basin. According to the same source, they that have been adapted to fit new usages had wanted the material of the water-front like museums and restaurants. Therefore, facades to be local and thus selected oak

Radiohuset is placed onto the site of Kilden. In our opinion Radiohuset somehow fits in to the Kilden's site. Maybe it's due to the massing of the bulding: it is similar to the ones on the site. Also the space for the Radiohuset building seems to be suitable.

Image 11

RADIOHUSET & KILDEN PERFORMING ARTS CENTRE **THEME 2: NEW LOCATION - KILDEN** TOVA FINEL. ALMA SIPPOLA. JANINA VIRTANEN. ANNA-KERTTU YRJÄNÄ

Image 12

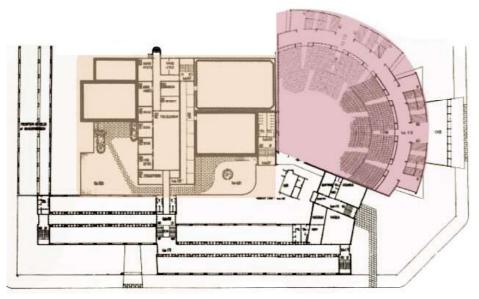


Image 13

RADIOHUSET & KILDEN PERFORMING ARTS CENTRE

THEME 3: MODIFICATION - RADIOHUSET

TOVA FINEL. ALMA SIPPOLA. JANINA VIRTANEN. ANNA-KERTTU YRJÄNÄ

RADIOHUSET

Radiohuset is by many sources a beloved In the modified version the fan-shape is The following is a quote from one of the separate part with a special function. sources describing the Radiohuset:

"Buildings with rich, diverse, and delightful environments, like Radiohuset, inspire affection. They are loveable and appreciated by their users and public audiences alike. They are the buildings that will be cared for, that will continue to find extended lifetimes through successful transformations. Architectural quality is a way to create social values while managing resources wisely."

In the original plan of Radiohuset the concert hall stands out from the other mass as an independent part. It separates from the middle and opens in a symmetrical form. The shape of the building is a traditional fan-shaped style which is widely used in concert hall designs.

building in the heart of Copenhagen. It is exaggerated and connects to the other a functionalist masterpiece with a great building masses. It creates a larger audience variety of inspirational spaces that have - probably too large for Radiohuset's yielded into various adaptions and needs needs. The concert hall is more connected of different hosts and usages. The biggest to the building complex, not as much adaptation it has underwent was when the an independent part. The scale changes Danish Radio moved out and was replaced significantly and makes the concert hall by the Royal Danish Academy of Music. look more like a main building than a

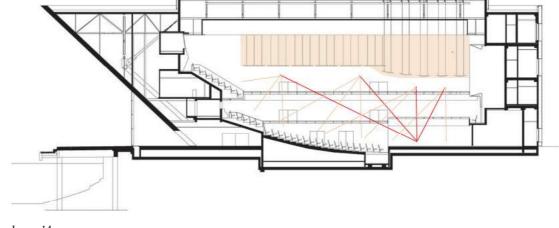
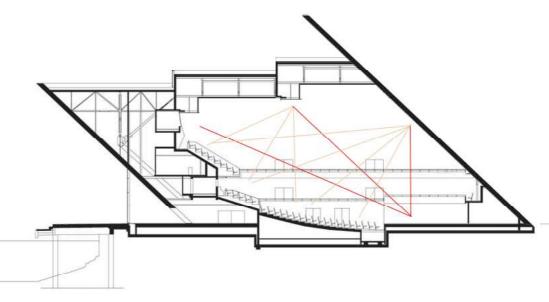


Image 14



KILDEN PERFORMING ARTS CENTRE Kilden performing arts center is on acoustic panels hanging from

very much liked by visitors and the roof. Accurately calculated performers, making it one of layout of the panels in relation to the top international performing the shape of the hall ensures an centers. The architecture is seen excellent sound experience. as memorable and the acoustics of both concert halls is magnificent. In the exaggerated design the shape The core of the architecture is the of the front side of the building has optimal functionality of the concert been multiplied to the other side halls regardless of one another. as well. The oblique wall creates The facilities of the arts center a natural sound distribution to the allow a large variety of artforms concert hall without relying on to be showcased in the same acoustic panels. The modification environment.

"We are therefore able to produce large productions in-house, such as musicals, opera and ballets, where our own symphony orchestra contributes from the orchestral pit. There are no other theatres in Norway that are able to programme these types of productions with live music."

In the original design of the concert hall the monumental shape of the façade is not in a major role in the acoustics. It's used to lift the audience but not to influence the sound transmission. The acoustics of the concert hall are dependent

transforms the entire appearance of the building.

Image 15

RADIOHUSET & KILDEN PERFORMING ARTS CENTRE

THEME 3: MODIFICATION - KILDEN

TOVA FINEL. ALMA SIPPOLA. JANINA VIRTANEN. ANNA-KERTTU YRJÄNÄ





RADIOHUSET

The main space of Radiohuset seems to be the concert hall that stands out from the In the original space all the materials, shapes and small details direct the attention to mass. The materials that have been used in the interior is mainly wood so it creates the stage and to the orchestra. If there's something that stands out except for the stage a visual connection from space to space. Also the lamps and furniture were designed are the acoustics structures on the walls. specifically for the building which creates a connection between different spaces. The interior is made from dark mahogany and the outside from marble so the interior and exterior seem quite different.

Here the dominant features of the interior have been modified as seen in the pictures. The wooden walls and the ceiling are now a much lighter tone and vice versa the stalls and the upper circles are a bit darker in tone. These relatively small changes affect the space surprisingly.



Image 17

In the modified version the attention isn't right away directed to the stage where it should. Now the organ jumps out from the mass and steals the attention. The acoustic structures blend into the walls and so does the stage.









Image 18d

KILDEN PERFORMING ARTS CENTRE

The main space for Kilden might just be the fover because its unique and recognizable roof. This roof connects the outside and inside together. Outside and inside are almost literally connected because the same local oak roof continues to the outside, there's only a class facade in between them. Some of the concert hall's interior include wood so it is a combining element. But there's also spaces and corridors that don't seem to have anything in common with the fover.

Kildens main element is the boldly shaped oak roof, which defines the whole building and gives it its athmosphere.

One of the main factors of why the roof doesn't feel atacking, is the use of colors and the organic surface of the roof. The roof is the main point of attention, but the other surfaces and materials balance out the bold roof.

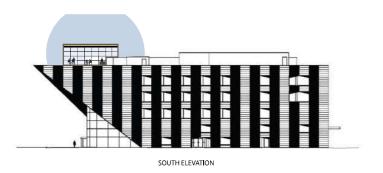
In the lower pictures the color of the roof is white. The roof gives the space a colder vibe and the attention doesn't lay on the main characteristic of the space (attention is now on the supporting structure of the window, the outside view, and the furniture). One still pays attention to the roof, but it is not the defining element of the space.

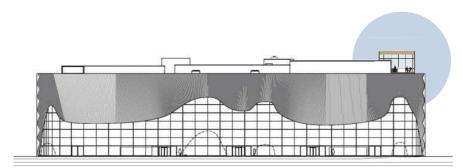
Regardless of where the attention now goes, when there is such a bold element in a space, as the roof is in Kilden, it is justified to make it the main point of attention. The colors and materials play a big role in that.

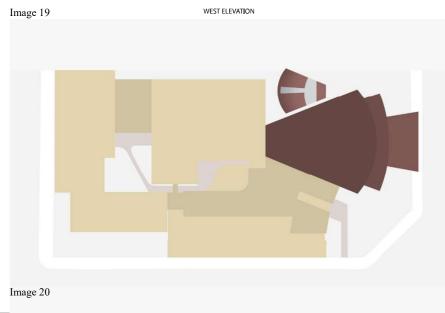
RADIOHUSET & KILDEN PERFORMING ARTS CENTRE

THEME 4: MATERIAL MODIFICATION - RADIOHUSET TOVA FINEL ALMA SIPPOLA. JANINA VIRTANEN. ANNA-KERTTU YRJÄNÄ

RADIOHUSET & KILDEN PERFORMING ARTS CENTRE **THEME 4: MATERIAL MODIFICATION - KILDEN** TOVA FINEL. ALMA SIPPOLA. JANINA VIRTANEN. ANNA-KERTTU YRJÄNÄ







KILDEN PERFORMING ARTS CENTRE

To Kilden we added a small, delicate, rooftop café. We didn't want to add to the mass anything too conspicuous because of the nature of the building. Situated on the very top, the café would just be visible from afar to people to notice the café, but not too visible to disturb the shape and massing of the Kilden. As seen from the elevations, there are some masses on top, but from street level they are not at all visible.

The rooftop café would add up to the great views the Kilden has over the sea. The café would be even more directed to the south and the sea to get the full benefits of the location. Furthermore it would add to the services and usage of the building during, in between and after the concerts and performances.

RADIOHUSET

We extended Radiohuset by designing a small amphitheater, which would be an open space for everyone to use close to the concert hall. The mass of the amphitheater comes from the concert hall of Radiohuset, but turned so that it is is very much in contrast with the original hall.

The concert hall is very closed to the street, but a very prominent part of the building and the street view. The amphitheater is more open and inviting to passers-by, but it is located behind the concert hall. Its location gives it a little privacy, which is also needed for the use of the amphitheater. The mass also ties the concert hall to the buildings behind it very naturally.

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Image 4 = Image 1

Image 5: Original Image: Felix Mittermeier (2017), available: https://pixabay.com/photos/black-and-white-rural-hut-landscape-2405469/Modification: A. Yrjänä (2021)

Image 6: Tuomas Uusheimo, ALA Architects, available: http://ala.fi/work/kilden-performing-arts-centre/

Image 7: Original Image: Stephanie Lukins (2019), available: https://www.qschina.cn/en/student-info/studying-abroad/4-reasons-why-italian-city-hit-international-students Modification: A. Sippola (2021)

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Images 18 a-d: Original Images: Tuomas Uusiheimo, ALA Architects, available: http:// ala.fi/work/kilden-performing-arts-centre/ Modification: A. Sippola (2021)

Image 19: Original images: ALA Architects, available: http://ala.fi/work/kilden-performing-arts-centre/ Modification: A. Yrjänä (2021)

Image 20: Original image = image 12, Modification: A. Sippola (2021)

RADIOHUSET & KILDEN PERFORMING ARTS CENTRE

CONCLUSION

TOVA FINEL, ALMA SIPPOLA, JANINA VIRTANEN, ANNA-KERTTU YRJÄNÄ

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CONCLUSION

TOVA FINEL ALMA SIPPOLA. JANINA VIRTANEN. ANNA-KERTTU YRJÄNÄ

CONTEMPORAR NORDI ARCHITECTUR Image 1. Muuratsalo house, photo by Nico Saieh

The Muuratsalo experimental house is lo- The courtyard facade is the most obvicated on the Western shore of the Muuratsa- ous part of the experiments Aalto tested. lo island in the lake Päijänne. The 53650 The brick façade is divided into 50 panels m² site contains the actual summer house in which they tested how the different maand ateljé, woodshed and a smoke sauna. terials and techniques age through time. It was designed together by Elissa and Alvar Aalto. (Alvar Aalto Foundation 2021) Brick was a typical material of the time but the

The site is a rocky pine forest plot. It is and experimental. The outer facade is more in its natural shape creating a contrast to traditional white-painted plastered brick wall the playfull inside and a clear-lined mod- forming a more typical image of the time. ern outer facade. The buildings are located on the plot in the shape of the Big Dipper. The main intentional experimental parts of the

way Aalto used it in this house makes it unique

project were to partly build without founda-

The connection to nature is present- tions (was implemented on the quest wing), ed by how the buildings are located in free-form brick construction (was not carthe site and the forest is kept untouched. ried out), free-form column structures Otherwise the house form is closed and (was implemented in the woodshed) and even the atrium yard is covered with brick. solar heating (was not carried out.) The shape of the main building is inspired by the antique atriums and the roof The smoke sauna was built on a stone in the shape takes into account the direction of shore and was built of the trees felled on the the sunlight. The closed courtyard opens site. The sauna has a saperate steamroom and a to south and west with a fireplace in the changing room by the lake shore. (Alvar Aalto middle. (Alvar Aalto Foundation, 2021) Foundation, 2021)

Alvar Aalto Website. Retrieved from 3.11.2021, https:// www.alvaraalto.fi/en/architecture/muuratsalo-experimental-house/#



Alvar Aalto Muurame, Jyväskylä Finland Ateljee and summerhouse

MUURATSALO EXPERIMENTAL HOUSE. 1952-54



Olavi Koponen Kyläniemi, Taipalsaari Finland Summerhouse

Image 2. Villa Riviera, photo by R2k Architecte

VILLA RIVIERA. 2011

The villa is located next to a beach by Lake Wood architecture is now much more popular Saimaa. The site contains one building, the than in the 20th century, partly due to the en-175 m² villa. It represents traditional car- vironmentally friendly solutions it promotes. pentry but incorporates modern technology. Material choices and the bright spaces reflect

ble. Pine trees enable great views to the lake and although there is a large number of trees the site doesn't feel too dense.

Villa Riviera represents the main themes of Olavi Koponen's works traditional carpentry and wood architecture which does not follow the mainstream. Koponen is known for implementing the connection of a human and the nature in his designs. (Taike 2021) The design and massing of the villa is modern, experimental and ecological. It consist of a large canopy/roof structure, which covers various types of spaces beneath it.

Materials used on the façade are Siberian larch, which is a very lively material. Over time it turns grey, and this way gives the building an evolving character.

the trends of today. Large glass walls and win-The building sits on a flat area between dows are combined with wooden structures pine trees, as close to the lake as possi- which are very desired for in this day and age.

> Puu Info. Retrieved from 3.11.2021, https://puuinfo.fi/arkkitehtuuri/summer-houses-and-saunas/holidav-house-villa-riviera/?lang=en

MUURATSALO EXPERIMENTAL HOUSE & VILLA RIVIERA INTRODUCTION

MUURATSALO EXPERIMENTAL HOUSE LOCATED IN SAVANNAH LANDSCAPE.

originally located in a pine forest, and ment to observe the differences in surwith a freestanding trees and the rocky therefore you won't get the same feeling. cliffs with the lake site in the original.

views from the inner yards could be quite of the surroundings and its reddish tones.

The Muuratsalo experimental house was different. Because the Muuratsalo composition is based on a typical Finnish inner we decided to relocate it to a Savannah yard with a view of the lake, the impression with a slightly different natural environ- of privacy may change considerably. The plane terrain in Savannah does not give the roundings between the plane landscape right orientation to position the structure,

The materials of the building, especially The main idea of the contrast between the red brick, seem to blend rather well the white walls and the surround- with the environment, partly due to the ings didn't change all that much, but the quite similar, untouched and natural state



Image 3. Muuratsalo experimental house in Savannah.



Image 4. Villa Riviera in Riviera.

VILLA RIVIERA LOCATED IN MENTON. FRENCH RIVIERA, FRANCE.

To keep the logic of the name of the build- ing a specific role. The experimental ing we decided to place it where it should wooden house has a natural appearance be according to the project's name, we because wooden structures blend in with chose to play with the word Riviera and any natural surroundings, but it also has a place the villa on the southern coast of more tropical appearance, which contrasts France. We assume that the project's au- with the defined urban area with colorful thor makes allusions to classic villas while red roofed buildings terraced on the cliffs yet taking an experimental approach. and the unusual appearance of that build-

By placing the Villa Riviera on the French tion in a public transit region mandates that Riviera, which is located in France, we it plays a specific role within it. Residential can see how the environment affects the function is no longer the case for that place structure. The cliff's reverse position in but it still could exist at some point. relation to the urban plan gives the build-

ing placed on the southern coast. Its loca-

MUURATSALO EXPERIMENTAL HOUSE & VILLA RIVIERA THEME 1: CONTEXT & HISTORY JUUSO LAHTINEN. ENNI MUNUKKA. ELENA SITRAKOVA. MARINA SUVOROVA CONTEMPORARY **ARCHITECTURI** 2021

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Image 5. Muuratsalo in original site.

Muuratsalo Experimental House is located on an island, ruins that rise from the landscape on the hill.

mainly, and also by rocks and water. Its windows are We chose the Aalto University environment for Muuratsalo Experimental House. Aalto University and back facades are oriented to the North side and have Muuratsalo share a strong modernist footprint, thus the designs of the buildings complement one other, although the Experimental House must definitely adapt its purpose within the campus context. It features an irregular plan that allows it to readily transform into a The surrounding landscape measuring 53650 m² plays a pavilion or a small library, with some smaller pavilions serving as saunas or exhibition rooms.

berry and lingonberry bushes add a beautiful contrast to Muuratsalo has a slightly irregular plan because to its the brick and white colors of the house. Fifty different location in a natulal setting, yet it could be a match for types of bricks which are arranged in various patterns the Aalto University campus since, despite being reguand mix of white-painted brick and red ones match per- lar at times, it maintains irregularity.

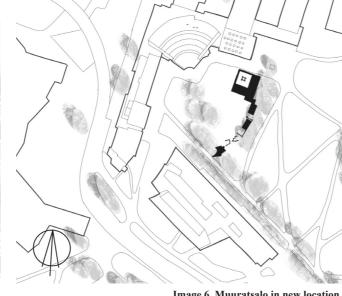


Image 6. Muuratsalo in new location

The Experimental house was able to be built here because of the materials, shapes, and natural orientation.

Alvar Aalto Website. Retrieved from 13.11.2021, https://www.alvaraalto.fi/en/location/muuratsalo-experimental-house/#

VILLA RIVIERA. ORIGINAL SITE & PLACED IN KALEVA. TAMPERE.

The villa is located on the edge of a forest and a beach. Pine trees are surrounding the whole building. The landscape opens up quickly when moving towards the lake.

The villa's form takes the surrounding nature into account, which can be seen in the structures and organization of spaces. The tall columns act as a continuation of visually. One pine tree even penetrates the canopy and the deck inside the villa and brings the environment literally inside.

Siberian larch matches well the forest environment. As it ages, it slowly turns grey, and this way creates a harmonious pair with the bark of the pine trees.

We decided to examine Villa Riviera in the environment

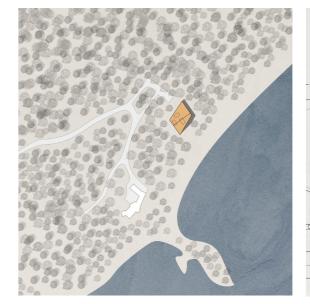


Image 7. Villa Riviera in original site.

Image 8. Villa Riviera in Kaleva. of Tampere, Kaleva. We placed the villa on the Kaleva Kaleva church has also an irregular footprint but itself church site. We wanted to experience the villa in a more the building has a strong monumental form compared to

open view that also takes into consideration the denser urban environment.

The irregular footprint of Villa Riviera is originally formed because of the nature in its site. When placing the pine trees and this way is connected to the landscape the summerhouse on an open plot in the hearth of Kale- Something we discussed was that why the Villa Riviera va the irregular shape of the footprint is not understandable because of the site. The shape seems unattached from the surroundings. Also, when placing the villa in a the original site. regular built environment the irregularity of the building is no quite strong enough to fit in. We came to conclusion that either the scale or the placement fits the new environment as well as the original site.

the Villa Riviera. Kaleva church doesn't really open to any direction. But the villa opens to every direction. In a way the Villa Riviera again seems like a pavilion in the urban environment.

might seem like a pavilion when placed to another location is that it has a very strong identity and bandage to

MUURATSALO EXPERIMENTAL HOUSE & VILLA RIVIERA THEME 2: LANDSCAPE & CITY

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fectly the surrounding as it creates a feeling of ancient

MUURATSALO EXPERIMENTAL HOUSE.

in opened landscape and is surrounded by the forest

mainly oriented to Lake Päijänne viewpoints, while its

more closed structure. House's additional premises cre-

ate a semicircle that is also explained with the North

critical role in the experience of the House architecture.

Boulders and stones which are covered with moss, bil-

side orientation, the wind rose and lake views.

ORIGINAL SITE & PLACED IN AALTO

UNIVERSITY ENVIRONMENT

MUURATSALO EXPERIMENTAL HOUSE

"The key element of the building, both architecturally and functionally, is the atrium courtyard. The walls are divided into approximately fifty fields of brick or tile, forming a diverse assemblage. The open fireplace at the centre of the courtyard is the heart of the entire house. The spatial and visual sequence extends from the living room through the courtyard and far over the lake." (Docomo, 2021)

The most important part of the house it is the connection between the inside and outside and the inner yard which is the center of the whole composition, from which we can reach the house and the nature and it serves as a connection point. So, that is an obvious thing that it became so 'special' in a sense of decoration. The whole house is built considering the inner yard we highlighted that it is the core of the Aalto's project. The core of our experiments are the consideration of different typologies and see how the form influences the typology if we change the inner yard.

Changing the height of the building changed its typology and made it look like an apartment complex. The walls made the division between the nature and the inner yard so it became useless and they cause the lack of the natural light that way. The expansion of the inner yard caused another change it became the public space with the wide inner yard for public purposes but at the same time it demands more glazing and a floor height. The multiplication caused that Muuratsalo became a townhouse or residential housing. As a result, we could see how the changes of the shape change typology and function.

Image 9. Ground floor plan.

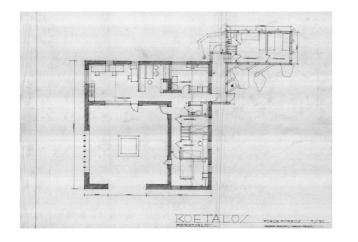


Image 10. Muuratsalo inner vard

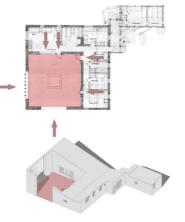


Image 11. Muuratsalo overstated features

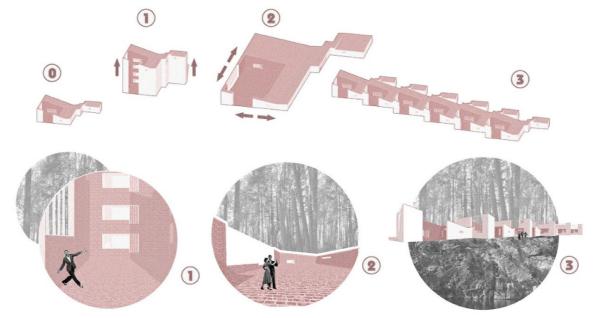
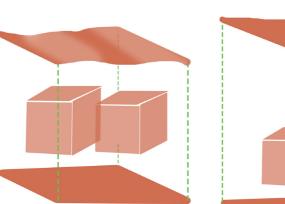


Image 12. Simplfied diragram of typology.



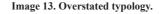




Image 14. Habitat 67, Montreal, Moshe Safdie, 1967

VILLA RIVIERA

The most distinctive characteristic in the villa is the "flying" canopy and the contrast it creates with the spaces placed underneath it. The canopy has a freeish form and the rooms inside have a rather strict, boxed shape.

In these sections we can see the wavy shape of the roof and the slight slope of the site. This gives boundaries for the actual spaces between them and allows freedom for the organisation of the interiors. The large roof provides the possibility to form multiple shapes and masses under it.

The building is divided into two masses under the canopy, with a comfortable pathway going through it to-

wards the beach. The pathway is quite naturally formed es and the wavy shaped roof. between the functions – living room opens up to the pathway/patio and on the other side there's a sauna and As the overstated features we came up with an idea the spaces supporting it. The patio has a feeling of being under the branches of a large tree. This is again made possible with the canopy structure.

typology. The model shows the basic idea of having a base and a flying roof in where between you have the is how in our diagram the large roof defines the empty interior boxes. The empty space formed under the roof space as equally important part of the building as the and around the boxes binds the building as a whole. In boxes forming the interior. the diagram we presented the canopy as a more natural form to emphasize the difference between the strict box-

where the typology is multiplied to every direction. In this haphazard composition we grew the volume of the complex to match a block of flats or a small residential area. We noticed similarity in our diagram as in some We formed a simplified diagram of the Villa Riviera foreign housing concepts where the residential building is formed from stacked modules. The interesting find

Image 15. Interior view to inner yard.

















Image 17. Muuratsalo inner yard materials transformations

Image 16. Modified interior view to inner yard.

MUURATSALO INNER YARD MATERIALS TRANSFORMATIONS

years utilizing brick and wood in what could be considered a passive construction method. The majority of the brick used were rejects and were salvaged from another one of Aalto's projects that was happening nearby, Säynätsalo Town Hall (1949-52). In addition, the brick was initially manufactured locally in Finland.

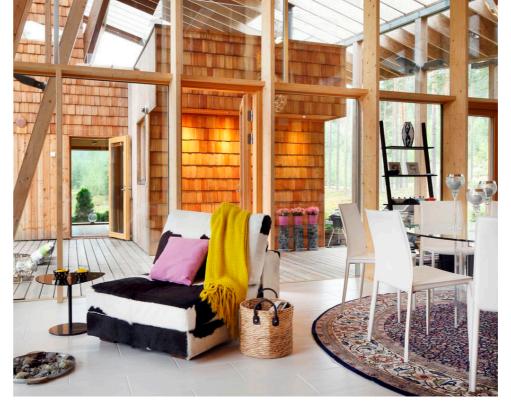
As a result, we see the inner yard as the most significant parts is clearly seen in the original shot. The substance

area of the building is connected to the outside, and that side space to the outside. connection is the most important aspect of the building.

So, we chose a photo with a view from the inside of the inner yard and decided to see how the colour of the yard would appear and influence the ambience from one point of view. The link between the inner and outer

The experimental house was built over the course of two part of the building, but we also recognize that the inner helps to maintain the atmosphere by extending the in-

We changed the colour of the wall in the edited shot to show how the environment has changed and the separation between inner and outer space appears. Through the windows and door, the outside space appears to be more like a painting.



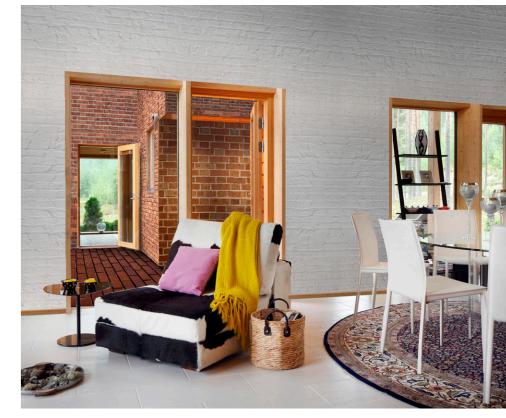


Image 18 & 19. Original materials & with modified materials

VILLA RIVIERA INTERIOR MATERIALS TRANSFORMATIONS

The main space in Villa Riviera is in between the boxed almost every room also has views to this living room the canopy and is surrounded by glass walls on three movement from and into it. sides. The living room opens up to the patio and terraces which go through and around the building. Thin timber structure helps creating the transparent atmosphere and adds to the feeling of being surrounded by nature. This space is visually connected to the whole building,

masses, where the living room and kitchen is located. area. Transition between indoor and outdoor space is This is a very open space as it rises all the way up to smooth and indefinite as the space promotes a seamless

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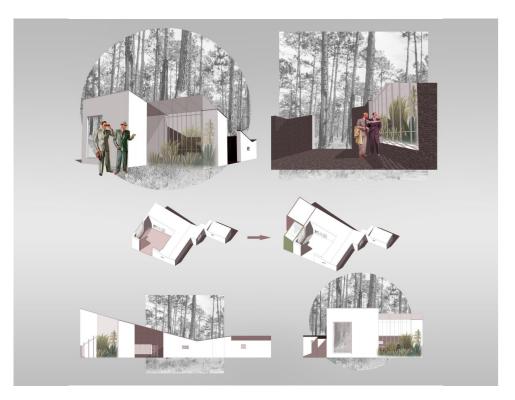


Image 20. Greenhouse & workshop.

MUURATSALO SMALL ADDITION

We discovered that the yard is the most important component of the experimental house, and that the entire structure of the building is based on the relationships between the building's inner and outer parts throughout the yard, as well as the direct link between the inside and the outside. We offered to put the greenhouse in the spot where the opening is. As a result, the transparent element will complete the composition of the inner yard while also preserving the link to nature throughout the vegetation within. A spot for crafting or workshop space with access to the greenhouse was also installed to support the extension made by the extra volume. As a result, the fundamental idea and structure of the building were reinforced by the addition of volumes to the inner yard.



Image 21. Sauna & guestroom / lounge

VILLA RIVIERA SMALL ADDITION

Sauna and the nature are an important part of Finnish culture and architecture. Connection to the nature is a crucial part of contemporary Nordic architecture too. The surrounding environment has heavily affected the design of Villa Riviera.

We decided to create an additional sauna and lounge terrace near the beach in front of the building. This place emphasizes the ritual of going to the sauna and this way almost works as a retreat in the middle of the beautiful Finnish nature. Typology and materiality of the addition refer to the original building. The lightness of the Villa is also present here in the form of organization of spaces.

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Image 2. Villa Riviera R2K Architecte. Retrieved from 16.11.2021 from http://www.r2k-architecte. com/projets/villa-riviera

Image 3. Muuratsalo in savannah Transformed by authors. Original images retrieved from 3.11.2021, by Nico Saieh. from https://www.archdaily.com/214209 and http://th-thumbnailer.cdn-si-edu.com

Image 4. Villa Riviera in Riviera
Transformed by authors. Original images retrieved 3.11.2021 by Boris Stroujko. Retrieved
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from http://www.r2k-architecte.com/projets/
villa-riviera/

Image 5. Muuratsalo Experimental house in original location Marina Suvorova

Image 6. Muuratsalo Experimental house in new location by Elena Sitrakova

Image 7. Villa Riviera in original site

By Juuso Lahtinen

Image 8. Villa Riviera in Tampere, Kaleva By Juuso Lahtinen

Image 9. Ground floor plan. Retrieved from 23.11.2021 from https://shop.alvaraalto.fi/en/tuote/architectural-drawings-of-the-muuratsa-lo-experimental-house/

Image 10. Muuratsalo inner yard by Elena Sitrakova

Image 11. Muuratsalo overstated features by Elena Sitrakova

Image 12 & 13. Villa Riviera typology diagram By Enni Munukka

Image 14 Habitat 67, Montreal / Moshe Safdie / 1967, Retrieved from 23.11.2021 from archdaily.com/404803 photo by Wladyslaw

Image 15. Interior view to inner yard. Retrieved from 27.11.2021 from http://jurajvron-ka.blogspot.com/2018/11/reserse.html

Image 16. Modified interior view to inner yard. Transformed by authors.

Image 17. Muuratsalo inner yard materials transformations. Transformed by authors. Original images retrieved from 27.11.2021 from https://www.archdaily.com/214209/ad-classics-muuratsalo-experimental-house-al-var-aalto

Image 18. Original materials. Retrieved from 26.11.2021 from https://kotijakeittio.fi/artikkeli/vapaaajan-koti-saimaalla-nimettiin-villa-rivieraksi-6.165.123446.745f754512

Image 19. Modified materials. Transformed by authors.

Image 20. Greenhouse & workshop by Elena Sitrakova

Image 21. Sauna & guestroom / lounge by Juuso Lahtinen & Enni Munukka

MUURATSALO EXPERIMENTAL HOUSE & VILLA RIVIERA

CONCLUSION

CONTEMPORAR NORDI ARCHITECTUR 202 MUURATSALO EXPERIMENTAL HOUSE & VILLA RIVIERA

CONCLUSION

JUUSO LAHTINEN. ENNI MUNUKKA. ELENA SITRAKOVA. MARINA SUVOROVA

CONTEMPORAR NORDIO ARCHITECTUR

JUUSO LAHTINEN. ENNI MUNUKKA. ELENA SITRAKOVA. MARINA SUVOROVA

TAPIOLA CHURCH

Architect: Aarno Ruusuvuori **Location:** Espoo, Finland **Building finished: 1965** Floor area: 1500 m²

Tapiola Church was built in 1965, renovated in 1992. It is originally located in an urban area that is easily accessible.

When it was opened in 1965, the Tapiola Church was somewhat controversial, and locals greeted it with a mix of approval and disdain. Since then, it became one of the most recognizable landmarks in Espoo, the locals very much loved it, especially its congregation.

The exterior is modern, with swoops and layers of grey concrete, but inside, the main attraction is the glass back wall which fills the church with natural light. Since the church was built after WWII and Finland had war reparations to the Soviet Union, this situation helped the country become industrialized. This caused migration to the cities, and new neighborhoods, facilities, and squares were required. Tapiola Church is one of those facilities that defines a square and it is also a part of the Tapiola Garden City.

It was built with the capacity of 600 seats, with the assumption that the city's population would be increased in the future. Additionally, the building material is concrete, as similar to the sorrounding buildings, since it is quick to construct and cheap. (finnisharchitecture.fi/tapiola-church/)

TAPIOLA CHURCH & COMMUNITY CHURCH KNARVIK



Image 1: Tapiola Church, photo by Larry Speck



Image 2: Tapiola Church, photo by Daniel Annenkov

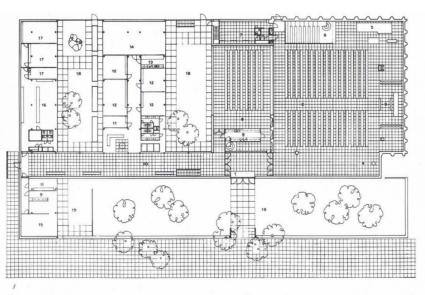


Image 3: Tapiola Church floor plan

CONTEMPORAR ARCHITECTUR



Architect: Rejulf Ramstad Arkitekter Location: Knarvik, Norway Building finished: 2014 Floor area: 2250 m²

located on the west coast of Norway, north landscape. (Arterritory.com 18/12/2014) of Bergen. It was built on a privileged site overlooking the cultural landscape The church signals its function with a and local town center. The building is sacral dignity and recognizable form in carefully adapted to an existing hillside which the church spire, sanctuary, and between the built and natural environment, chapel are emphasized with ascending providing the church with an inspiring roof planes. (Arterritory.com 18/12/2014) context of the surrounding heath landscape. (ArchDaily published on December 08, 2014)

This building is an outstanding example of how an object can be placed into harmonious dialogue with its surroundings. The architect has created a bold, distinguished design with a strong connection to The Community Church in Knarvik is the Nordic context and its impressive



Image 4: Knarvik Church, photo by Hundven Clements Photography

Image 5: Urnes Stave Church, Norway, photo by Riksantikvaren

Stave Churches

Medieval Norwegian Wooden Churches wood. (Kata Szilágyi - Anette Sand-Eriksen. appeared during the Middle Ages in Norway 2021). As illustrated in the facade and the between the first half of the 12th century materials, the Knarvik community church was and the 14th century. Their architecture and inspired by the traditional stave churches. The construction techniques make Stave churches building is a modern interpretation of Norwegian unique buildings that are fundamental to heritage not just through its material (pine Norway's wooden architecture tradition. wood), but also through its recognizable form. (Claudia R. Clare Casassas. 2019)

What makes the stave churches unique is the fact that during the time that they were constructed in most parts of Europe, stone and masonry were the preferred material.

However, Norway developed a new constructional technique using timber and

TAPIOLA CHURCH & COMMUNITY CHURCH KNARVIK INTRODUCTION EZGI SAMANCI. MARYAM HEIBATI. SILA KARTAL

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INTRODUCTION



Image 6: Tapiola Church on Sanctuary of Truth's context, transformed by authors

We chose a site in a tropical climate like Thailand because we thought would be completely in a contrast with the existing context. This is not an urban area, it is in a different climate, with an increased relation with sea.

The church is originally located in an urban area, and the building's borders create a defined circulation path around the building. Even its voids are designed according to the urban context's interactions. When we replace it into this kind of scenery, its relation with the surrounding has totally disappeared.

Tapiola Church's introverted character is in contrast with the new site, which more naturally demands openness to achieve view and connection to the sea.



Image 7: Sanctuary of Truth, original photo by Kharchenko Vladimir

CONTEMPORARY ARCHITECTUL

Image 8: Knarvik Church, photo by Hundven Clements Photography



Image 9: Knarvik Church on The Chapel of Rest's context, transformed by authors

The Knarvik Church is located in the village The church's distinctive and innovative of Knarvik, in Alver Municipality in Vestland character and central location make it an county, Norway. Its construction started in inviting and inclusive landmark for all people 2012 and lasted for two years. It was built in who wish to cultivate their faith throughout a hillside spot surrounded by both natural and the week. The church aspires to provide a built environments. Its location makes this platform for the safe upbringing of children church a landmark where its recognizable form and youth, become a local venue for gatherings stands out from the surrounding environment. and faith, and facilitate art, music, and cultural

was nominated for the European Union that unite religion, culture, and the site-specific Prize for Contemporary Architecture - The context into a whole. (ArchDaily published on Mies van der Rohe Award. Because it is a December 08, 2014) powerful example of how a building could have a close interaction with its surrounding environment. (Arterritory.com 18/12/2014)

development. The church has an architectural In 2014, the Community Church in Knarvik expression, spatial solutions, and materiality

As the wooden facade is inspired by traditional in an urban environment, surrounded by Nordic architecture, we realized that relocating a cemetery, its form is no longer inviting this building in a Nordic environment will but distracting. Also, it does not stand out not give us much information. Therefore, because of the flat landscape of that region. we decided to relocate the building on a site of an existing contemporary church in Also, its facade, which has a strong connection Austria in a different urban environment. with the natural environment, suddenly loses

Knarvik Church, through its strong form, works as an organizer in its original landscape. After considering these facts, we It catches the attention through its contrast realized that this building was designed with the surrounding natural environment. specifically for its original natural and rural Also, it has an inviting nature because it is environment, where its wooden facade located at a higher level than its surrounding. has a connection to Norwegian history However, after choosing a new location and the natural environment of the village.

its meaning and beauty in a new location.

TAPIOLA CHURCH & COMMUNITY CHURCH KNARVIK THEME 1: CONTEXT & HISTORY EZGI SAMANCI. MARYAM HEIBATI. SILA KARTAL

CONTEMPORAR ARCHITECTU

TAPIOLA CHURCH & COMMUNITY CHURCH KNARVIK

THEME 1: CONTEXT & HISTORY

Tapiola Church is located in Espoo, close to the city center, and its design responds to public and residential buildings in the area and defines pathways and streets. With the material choices, it is easy to observe the "industrial" aspect of the city through the church. It was designed within the masterplan of Tapiola Garden City. Although it is located in an urban area, it still has a strong connection to nature.

Knarvik Church is located in the north of Bergen, a coastal rural area in western Norway. It is built on a site overlooking the cultural landscape and local town center. The building is carefully adapted to an existing hillside between the built and natural environment, providing the church with an inspiring context of the surrounding heath landscape. Since it is located in a rural area, the form is inspired by the local tradition of Norwegian stave churches. Also, the facade is designed by strips of pine wood which blends with its natural and rural context.

Both churches are built in a similar climate. When we analyzed the site plans, it is easy to observe that they share similar quality which is the balance of nature and urban environment. However, when they switch locations, the bond they built with their own site appears. Tapiola Church, when relocated into Knarvik Church's site, does not define the urban fabric. Besides, the Knarvik Church has a level difference which provides a stand-alone situation for the building. Also, its landscape is natural in contrast to Tapiola's artificial landscape elements.

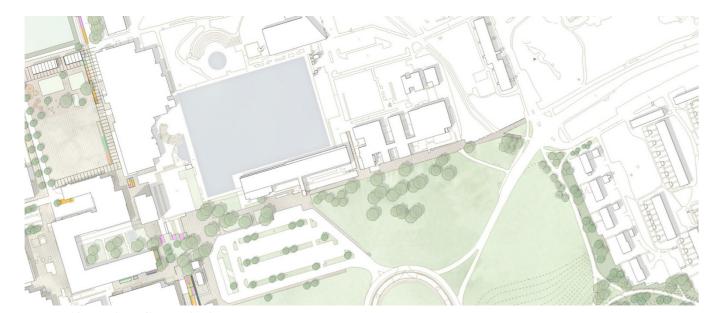


Image 10: Tapiola Church's site plan

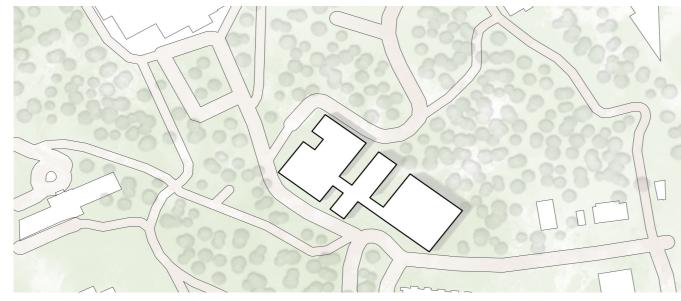


Image 11: Tapiola church on Community Church Knarvik's site

CONTEMPORAR ARCHITECTUI

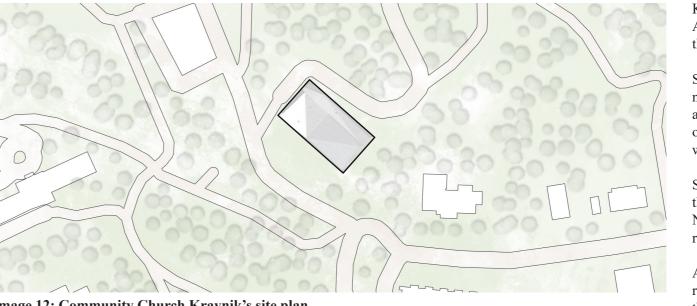


Image 12: Community Church Kravnik's site plan

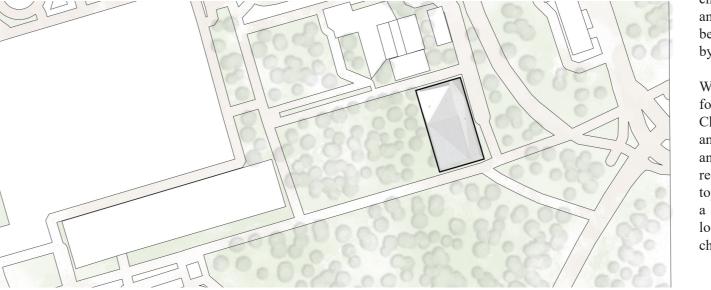


Image 13: Community Church Kravnik on Tapiola church's site

TAPIOLA CHURCH & COMMUNITY CHURCH KNARVIK **THEME 2: LANDSCAPE & CITY** EZGI SAMANCI. MARYAM HEIBATI. SILA KARTAL

Knarvik church is located on a rural area of the Knarvik. Although there are other built structures in the cvicinity, the Knarvik church is placed in an open landscape.

Since there are few tall trees and high buildings in this neighborhood, the church represents itself through its angular timber structure. Although, its shape stands out of the flat natural surrounding landscape; it surprisingly works in perfect harmony with the environment.

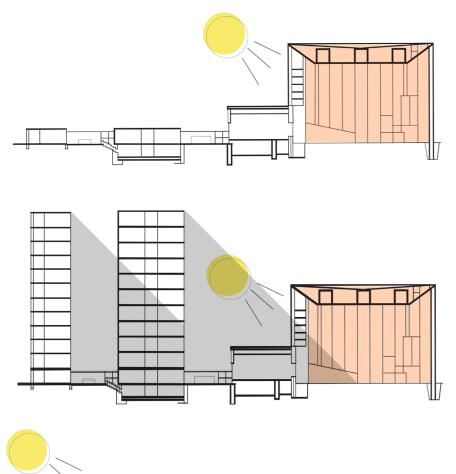
Since both of the churches are located in the Nordic region and are inspired by the Nordic context, we wanted to see how they respond to the other surrounding environment.

As Knarvik church was designed for an open rural environment, we relocated the structure to the existing site of Tapiola church. It loses its characteristic in a dense urban environment. Its angular shape does not stand out anymore. It becomes invisible when it becomes surrounded by high-rise buildings and dense, tall trees.

We realized this building is designed specifically for the hillside by analyzing the changes. Knarvik Church is located at the highest level of the landscape, and it becomes a landmark both through its form and location. Additionally, its floor plan is in a basic rectangular shape that contrasts with the complex topography. However, Tapiola Church is located on a flat topography. Therefore, when we switch the location of Knarvik Church with the site of Tapiola church, the church loses its distinctive characteristics.

> CONTEMPORARY ARCHITECTUI

TAPIOLA CHURCH & COMMUNITY CHURCH KNARVIK



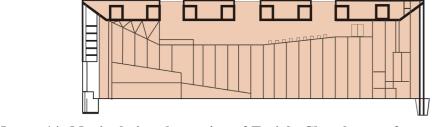


Image 14: Manipulating the section of Tapiola Church, transformed Image 15: Tapiola Church, photo by Daniel Annenkov by authors

TAPIOLA CHURCH & COMMUNITY CHURCH KNARVIK

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THEME 3: TYPOLOGY & ORGANISATION

The structure's material and form choices, The including the relationship with the original

does not stand out in the skyline. Concrete material creates the impression of a In the third image, the Church Hall expands,

between the club and office spaces.

situation surrounding, give the impression of a regular In the second image, the height difference building in the city, not a sacred structure. not only blocks the amount of sunlight in the building, it also decreases the sense of Church blends into the environment with courtyard. These high structures overshadow the surrounding tall trees. The building the effect of -sacracy- on the church hall

closed box, yet the windows on the façade the windows on the façade become less reduce the amount of this impression. functional, as a result of breaking the sense of close box, and roof openings are needed The parish hall is lower in the hierarchy and to provide proper daylight for the interior has a rectangular shape. The club and office space. Since, the main volume just expands, facilities are in the south-north and west from it can contain the other minor functions the next descending level in the hierarchy. Two around the main volume within the roof of courtyard areas follow a rectangular pattern the hall, which can change the circulation.



CONTEMPORAR ARCHITECTU

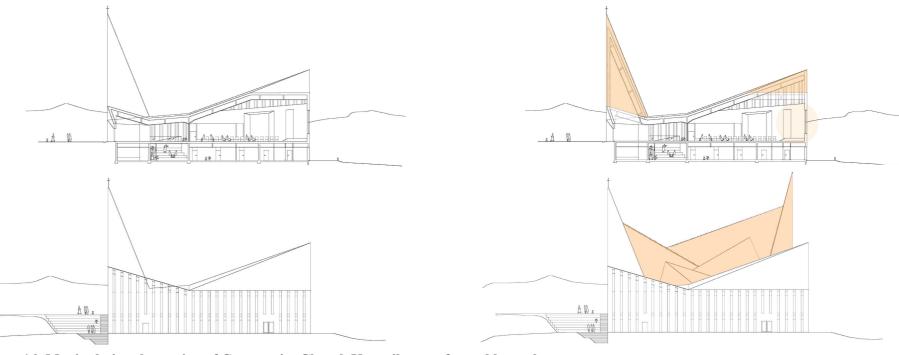


Image 16: Manipulating the section of Community Church Kravnik, transformed by authors

Knarvik Community Church is carefully adapted "The church's architecture, the landscape. Its distinctive and innovative character and central location make it a landmark in the The church signals its function with a recognizable. As illustrated in the first section, the interior ceiling

The building volume is split into two stories on a walls to accommodate more than 500 people.

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to an existing hillside between the built and solutions, and the choice of materials combine triangles that emanate from the spire. These natural environment, providing the church with religion, culture, and local history," explains triangles are all gently angled upwards, towards the inspiring context of the surrounding heath Reiulf Ramstad. (Wood Magazine, 2015) the sky – as if opening the church up to heaven.

community, inviting and inclusive for all people. form, where the church spire, sanctuary, and chapel are does not follow the roofs' angles; by exaggerating the emphasized by ascending roof planes.

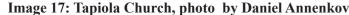
rectangular plan, separating the sacred spaces above On the outside, the most symbolic parts of the church—the Also, by exaggerating the exterior view via adding more from the cultural and administrative functions below. steeple or belfry, the sanctuary, and the chapel – manifest sloped roofs, the main concept of the building, "Inspired The internal "church square" connects the two levels themselves by means of folds that shoot upward, breaking by the local tradition of Norwegian stave churches," with an atrium stair into a continuous space and may be the horizontality of the roof and giving the complex an is not clear anymore; the modern interpretation of joined or separated from the sanctuary with sliding glass appearance that is easily recognizable in the context. traditional churches suddenly becomes a messy form.

spatial "The roof of the church comprises three flat

internal angles, the focus from the circular opening and the baptismal pool and pulpit stand is taken away.

CONTEMPORARY ARCHITECTU





Yet, the light is the thing that penetrates through church creates is changed from industrial to warm the materials and defines a unity inside the volume. athmosphere.

Relationship with the outside is not observable from Because of the material the church hall is dark, and the inside of the church hall; windows are located above light filter through the interior is defined on that dark standard human height. So, the windows have only the surface. However, the church now has a brighter material, function of lighting the interior and creating a sacred wood, and the light does not define the space. The atmosphere, instead of creating a visual connection with sunlight does not have the same holy presence in the hall. the sorrounding environment.

Unlike the exterior concrete façade, in the interior, In this step, we wanted to use similar characteristics. Even though the new sense of the interior gained by brick is the primary material. However, every to Knarvik Church. Therefore, the walls' material are wood is clear, the new material exaggerate the disunity surface in the main hall has different materials. changed to wood. Consequently, the sense that the with the furnisment and floor. Therefore, in this scenerio where the interior material is changed, it would only be logical to create a harmony between surfaces through material choice.



Image 18: Changing the material of Tapiola church, transformed by authors

Wood is the key material in this project, illustrated in all interior and exterior surfaces with the cladding of pre-weathered light-colored pine heartwood.

The sanctuary with sliding glass walls is the main area in Knarvik Community Church. Sanctuary has two visual connections, one through a glass sliding door with the church entrance/church square, and the other one is the visual connection to the surrounding natural environment via the narrow glass windows splayed in the plan to maximize admittance and reduce glare. At night, the warm glow of the interior reveals the activities of its religious and cultural events.

One of the main characteristics of this church is the harmonious use of materials on different surfaces. We decided to break this harmony by changing the ceiling's material to bright concrete and the walls' material to brick which is heavier and darker.

By changing the materials, the spatial characteristic of the sanctuary has changed.



Photograph



Image 19: The original picture by Karl Heinz Putz Image 20: Changing the material of Community Church Knarvik, transformed by authors

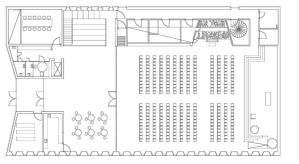


Image 21: Knarvik Church, ground floor plan

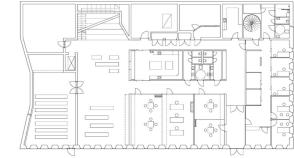


Image 22: Knarvik Church, basement floor plan

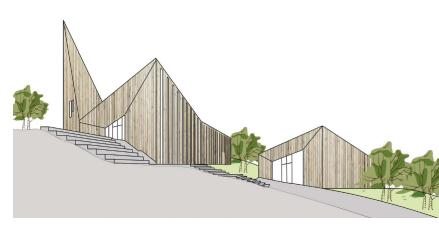


Image 23: New addition proposal, image produced by authors



Image 24: New addition proposal, image produced by authors

iust as much about

the materiality and the exterior form as about character vanishes. the interior special solutions. Both study cases by vast natural environment and public spaces, but the overall impression is different.

Although the Knarvik community church Knarvik community church. is surrounded by a built environment, its surrounding is quite different from Tapiola. However, unlike Knarvik Church, the Tapiola and exaggerated form.

We decided to add an external expansion to Knarvik church to see how its spatial interaction For the extension, we decided not to break interact with each other, we decided to add a the available area in the site plan. kindergarten to the hillside.

would change the spatial characteristic of the people in the area to use anytime. Knarvik Community Church. The Knarvik Church by itself sits as an individual form on the hilltop. Therefore, the addition creates a negative impact on the landmark quality of the church. Also, this additional form blocks the

As we discussed the study cases through the open view from the church towards the village, course, the main focus of our discussion was as well as the view from the neighborhood to the church. Consequently, its unique distinctive

are religious buildings, and they are surrounded The Tapiola church is located in a dense urban environment, yet with its surrounding trees, it also has the sense of being with close interaction with its surrounding environment, Like the

In the Knarvik church, it is the building that Church looks like a regular building complex, works as an organizer for its neighborhood, rather than a sacred structure. Concrete is the Knarvik is the landmark that invites people to main material of this building which illustrates join the introverted community. However, all that the structure belongs to the modern era. the analyses are much focused on its materiality Because of the rectangular form of the buildings and their arrangement on the site plan, nothing stands out from regularity.

with the environment will change. Since one of the existing pattern of the site plan, building the considerations in the design of the Knarvik arrangements, and the hallway that connects the community church was to create a place structures. The extension is similar in scale to where people from different age groups could the other units of the church, and it is located in

After adding our expansion, we realized even if The Tapiola Church is located in a highly the new building follows the same language and approachable area. Therefore, the extension unit spatial form of the Knarvik Church, its existence can be used as a coffee shop, library, or both, for

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