Greenhouse View

Nolli Diagram

Grensen

Walking Distance

Site Plan
1:8000

Existing

NTNU Campus

Humanitarian

Site

Proposed

In-Between Lab

Introduction

Education and its role in society are multifaceted topics that warrant exploration. While institutions have traditionally been the primary means of education, the accessibility and perception of education differ across cultures, with some viewing it as a privilege and others as a right. Notably, Norway stands out for its elaborate system that supports citizens in pursuing higher education in their desired fields.

It is essential to critically examine the current academic strategies and systems. Many of these approaches may be outdated and inadvertently promote unhealthy behaviors. The focus often lies on absorbing information and contributing solely within one's chosen field, neglecting the development of soft skills and practical toolsets. Consequently, the question arises of whether we are becoming overly specialized, potentially outsourcing areas of life that are not directly related to our professions.

The brief and survey prepared by NTNU mark a commendable step in the right direction, as they raise crucial questions about how students envision utilizing the space. The proposal to designate a specific location on campus for students, professors, staff, locals, and temporary visitors has the potential to foster intriguing dynamics and interactions.

By preserving the existing structures, even if they deviate from conventional norms, the university can better represent its identity, as well as contribute to Trondheim's overall character. The notion of a "red flag," as mentioned in the brief, opens up the possibility of exploring the potential of overlooked and neglected structures, whether they possess grandeur or not.

The emphasis lies in showcasing what can be achieved through adaptive approaches rather than attempting to fix everything outright. This approach offers a unique opportunity to breathe new life into the space and make it meaningful for the university community and beyond. Embracing the existing structures with all their quirks allows for creative expressions of revitalization, transforming them into spaces of significance and purpose.

The proposal seeks to establish a distinctive space that prioritizes soft skill development over conventional university campus buildings. Leveraging the existing Grensen cluster as a foundation for this exploration provides a promising opportunity. Introducing a communal kitchen, along with landscaping and repair amenities, fosters a collaborative atmosphere, allowing individuals to feel a sense of agency and connection to the space. By embracing this approach, the project can truly become a dynamic and empowering environment for nurturing essential soft skills.

The proposed living lab transcends its physical realm and also extends into a metaphorical living lab. Beyond the built environment, it seeks to foster an environment of constant exchange and interaction in our daily lives turning the space into a hub for personal and professional growth.

Interventions

Urban spaces play a crucial role in fostering community interaction, accessibility, and sustainability. The proposal is an attempt in having a comprehensive set of design interventions aimed at transforming the site for the redevelopment of the Norwegian University of Science and Technology (NTNU) campus. The objective is to create a vibrant and inclusive environment that prioritizes pedestrian safety, universal accessibility, and green space integration while preserving the existing structures.

I. Altering the Path Network

To enhance pedestrian flow and prioritize safety, the first intervention involves redirecting foot traffic and reducing car access within the campus. By reorienting transportation priorities, the campus can foster a more pedestrian-friendly environment and promote active mobility.

II. Accessibility Ramp

A key initiative entails constructing an accessible ramp connecting the site to Chr. Frederiks Gate Street. This ramp will significantly ease access for individuals with disabilities or mobility challenges, promoting inclusivity and equitable opportunities for all.

III. Zoning and Differentiation

The campus redevelopment plan includes defining clear zones for residential, student center, and public areas, each with distinct characteristics and purposes. Appropriate separation and thoughtful design elements will be implemented to differentiate between these zones, contributing to a well-organized and coherent campus layout.

IV. Preservation and No Demolition

Preserving the historical and existing buildings on the site stands as a fundamental principle

Axonometry

Interventions *(continued)*

of this redevelopment project. By avoiding demolition and repurposing the triangular lot for alternative uses that do not involve new construction, the plan seeks to honor the site's heritage and reduce environmental impacts.

V. In-Between Building

The In-Between building will serve as a pivotal intervention to provide accessible connections between existing buildings, facilitating seamless movement within the campus. Incorporating ramp solutions will address level variations and ensure universal accessibility for all campus inhabitants.

VI. Green Space Integration

The In-Between building's innovative design as a greenhouse will introduce lush landscapes into the circulation network, providing climate benefits and fostering nature-driven working spaces. Integration with surrounding lush landscaping will create a year-round green area.

VII. Niches in the In-Between Building

Diverse niches within the In-Between building will cater to various levels of engagement. These niches will include the introverted table, providing slightly secluded spaces with a focus on the landscape; the extroverted table, encouraging interaction and collaboration among users; and the intimate tables, offering private spaces for personal exchanges.

VIII. Utilizing Existing Buildings Cluster

To optimize space utilization, the plan involves reallocating different required usages within the existing buildings. Strategic retrofitting will ensure compliance with building codes, providing universal access through new staircases and elevators. Carefully placed entries and access points will complement the proposed Humanitarian building, and relocation of structures alongside the axis of newly renovated residential buildings will increase available housing units.

IX. Integration of Raw Landscape

Preserving the natural landscape that has grown throughout years of neglect within the cluster of buildings will serve as an important contrast to the manicured areas on the campus. This preserved raw landscape will act as a visual reminder of nature's resilience and will create a unique visual in contrast of the grandiose university building and the smaller-scale architecture of Trondheim.

X. Mediating between University and Trondheim

These interventions act as mediators between the university and the city of Trondheim, fostering a harmonious relationship. By creating an inclusive and interconnected campus environment, these interventions bridge the gap between students, staff, and locals, fostering a strong sense of community.

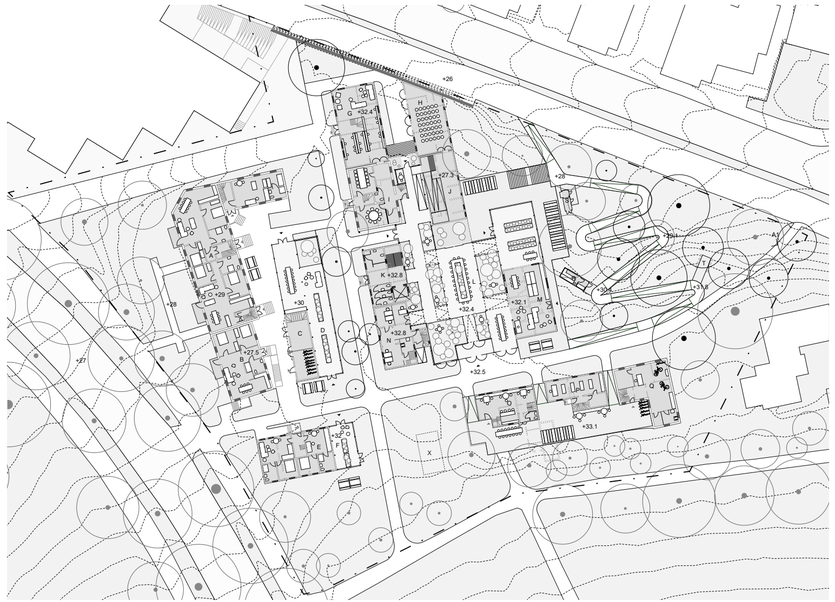
Overview

Through the implementation of diverse and thoughtfully planned interventions, the NTNU campus redevelopment project seeks to create an urban space that embodies sustainability, inclusivity, and seamless connectivity. By prioritizing pedestrian-friendly design, universal accessibility, green spaces, and the preservation of existing structures, the plan aspires to foster a vibrant and dynamic environment for the entire NTNU community and its relationship with the city of Trondheim.

Phasing *(refer to floor plan)*

1. No change to building (A), (B), and (C)
2. Re-location of the temporary pavilion (X)
3. Re-location of building (E) to make way for the proposed Humanitarian building
4. Slight alteration and shaping of paths
5. Retrofit of building (O), (P), and (Q)
6. Construction of non-intrusive deck between (O), (P), and (Q)
7. Construction of greenhouse (D)
8. Construction of greenhouse (L)
9. In conjunction to construction (L), retrofit of building (G), (H), (I), (J), (K), (L), (M), and (N)
10. Construction of deck to greenhouse (L)
11. Construction of non-intrusive wosp ramp
12. Construction of structures (S), (R) and (T)
13. Insertion of new trees and bushes

Section AA1
1:250



Ground Floor Plan
1:250

Existing Trees

Proposed Trees

Existing Wall

Demolished Wall

New Wall

Existing Entrances

New Entrances

Index *(refer to floor plan)*

A - Grensen 4		1160 sq m
Basement	1, ADA 1 Bedroom 1 Bath	290 sq m
	1, ADA 2 Bedroom 1 Bath	
	Storage Room	
	Technical Room	
Floor 1	2, 2 Bedroom 1 Bath	290 sq m
	1, 1 Bedroom 1 Bath	
Floor 2	2, 2 Bedroom 1 Bath	290 sq m
	1, 1 Bedroom 1 Bath	
Attic	2, 1 Bedroom 1 Bath	290 sq m
	Storage Room, Technical Room	
B - Grensen 2A		360 sq m
Basement	1, 1 Bedroom 1 Bath	90 sq m
Floor 1	1, 2 Bedroom 1 Bath	90 sq m
Floor 2	1, 2 Bedroom 1 Bath	90 sq m
Attic	Storage Room, Technical Room	90 sq m
C - Grensen 2B		94 sq m
Floor 1	Shared Storage, Bike Parking, Garbage Room	47 sq m
Floor 2	Storage Room	47 sq m
D - Residence Greenhouse		150 sq m
Greenhouse	Vegetable Garden, Seating	150 sq m

E - Grensen 6		360 sq m
Basement	Storage, Technical Room	98 sq m
Floor 1	2, 2 Bedroom 2 Bathroom	98 sq m
Floor 2	2, 2 Bedroom 2 Bathroom	98 sq m
Attic	1 Studio Apartment	98 sq m
F - Residence Greenhouse		32 sq m
Greenhouse	Vegetable Garden, Seating	32 sq m
G - Grensen 10A		420 sq m
Basement	Storage, Technical Room	105 sq m
Floor 1	Quite Work Area	105 sq m
Floor 2	Quite Work Area	105 sq m
Attic	Quite Work Area	105 sq m
H - Grensen 10B		146 sq m
Basement	Storage, Technical Room	73 sq m
Floor 1	Lecture Hall, Multi-Purpose Hall Exhibition Hall	73 sq m
Floor 1	Demolished	
Attic	Demolished	
I - Grensen 9A		360 sq m
Basement	Storage, Technical Room	90 sq m
Floor 1	2 Meeting Rooms 1 Bathroom	90 sq m
Floor 2	1 Workshop Room	90 sq m
Attic	1 Meeting Room	90 sq m

J - Grensen 9B		150 sq m
Basement	Storage, Technical Room	75 sq m
Floor 1	Exhibition Hall, Ramp	75 sq m
Floor 2	Demolished	
Attic	Demolished	
K - Grensen 8		268 sq m
Basement	Storage, Technical Room	67 sq m
Floor 1	Stairs, Elevator, Bathrooms	67 sq m
Floor 2	Stairs, Elevator, Bathrooms	67 sq m
Attic	Storage	67 sq m
L - In-Between Axis		452 sq m
Greenhouse	Vegetable Garden, Gardens, Seating, Working Tables, Multipurpose	452 sq m
M - Grensen 12		178 sq m
Basement	Storage, Technical Room	89 sq m
Floor 1	Communal Kitchen, Fireplace	89 sq m
Floor 2	Demolished	
Attic	Demolished	
N - Grensen 7		288 sq m
Basement	Storage, Technical Room	72 sq m
Floor 1	Administration	72 sq m
Floor 2	Meeting Room	72 sq m
Attic	Storage	72 sq m

O - Grensen 15		120 sq m
Floor 1	Cafe	60 sq m
Floor 2	Cafe	60 sq m
P - Grensen 14		159 sq m
Basement	Storage	53 sq m
Floor 1	Winter Gear Store	53 sq m
Floor 2	Winter Gear Store	53 sq m
Q - Grensen 13		255 sq m
Basement	Storage	85 sq m
Floor 1	Repair Shop	85 sq m
Floor 1	Repair Shop	85 sq m
R		10 sq m
Chicken Coop		10 sq m
S		5 sq m
Sauna		5 sq m
T		
Beehives		
X		
Temporary Grensen Pavilion		