"From the sugar age to the information age. A new high school in Kävlinge"

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My thesis project deals with a strategy on how to transform an old industrial site into a learning environment, a new high school. The old sugar mill in Kävlinge municipality constitutes a clear and distinctive landmark. The buildings have been abandoned since 2010 when all activities were phased out. The sustainable strategies applied include a new transparent second skin - a glass corridor facade, which stores the heat from the thermal mass (bricks). It also includes a passive ventilation system, using underground ducts to heat or cool the building depending on season.
FROM THE SUGAR AGE TO THE INFORMATION AGE
A NEW HIGH SCHOOL IN KÅLUNGE

PROGRAM & SOCIAL ENVIRONMENT

DEGREES OF PUBLIC EXPOSURE & SECLUSION
Individuals are different and have different needs in terms of their desire to be exposed to others. The school environment should offer this array of possibilities.

PHYSICAL ENVIRONMENT & LIGHT

REGIONAL CONTEXT & FIGURES

KÅLUNGE MUNICIPALITY
Vältra is a small town located south of Sweden with 28,000 inhabitants. The town of Kålunge has seven 6-9 buildings. A bus stop and a park will be established in the school. The community is located with relatively few students, which is a practical consideration. The school has a large indoor area designed for students. There is a plan to develop the area around the school. The school is located near a large park for students. This area is currently being planned to be used for outdoor activities, with approximately 1,500 new diurnal activities.

The site consists of several buildings from different periods and in various conditions. However, the buildings are generally in a good to fair condition and used for public purposes. The ground cover is dominated by grass and shrubs, with some trees and vegetation. The area is approximately 30 hectares. The school buildings are located in a wooded area with some open spaces for outdoor activities.

THE PROJECT PROPOSAL

1. Increase the number of classrooms and student spaces.
2. Improve the indoor and outdoor spaces for students.
3. Develop a pedestrian-friendly environment.

KEY FIGURES

- Total floor area: ~8,000 m²
- Number of classrooms: 29 (470 m²)
- Optimal number of students per classroom: 30
- Number of students total: 900-1,000
- Area/student: ~17 m²
- Number of student spaces: 22 (11.25 m²)
- Auditorium capacity: 384
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1890-1940 ESTABLISHMENT
First establishment of the sugar mill initiated by the industrialist Carl Troesholm. A prerequisite for this was the railway line along the site, which connected the industrial site with the larger city. Main buildings are constructed in yellow brick and concrete with steel columns. The trains arrive and are unloaded inside the lower north building.

1940-1995 EXPANSION
Expansion of the business and new additions of buildings. Lightweight warehouses added to the south of the main brick complex. Activity changes to potatoes in 1955 operated by Solberum.

1990-2000 FURTHER EXPANSION
Several new buildings are added to the site, mainly to view frame and communi-
cation. Large warehouses are added to the north during the 1990s.

2010-2012 CONTRACTION
The company goes bankrupt and all activities are phased out. Several buildings are being sold off by the new owner Landenbrunn.

2014 REDUCTION AND REFINEMENT
Buildings of low bilateral importance are being dismantled and some building components are being used for the new school.

2016-7 REFURBISHMENT: NEW LIFE
New use as a high school. Several out-buildings in the north are done for daylight and ventilation purposes. A new second floor is added to some of the ex-
isting brick houses for communication energy purposes. The exterior is connected to the main buildings.
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