**KEEP ADDING AND KEEPING**

**MICROCLIMATE**

- **SUN**
  - NEW STRUCTURE
  - PUBILC SQUARE

- **SUN AND WIND DIAGRAMS**
  - Investigating how high structures can be built to protect from the wind without shading undated areas.
  - Existing structures have a good shape for wind protection so increasing their topological shape is something to aim for.

**CONCEPT**

- **REPROGRAM**
  - Through the reprogramming of existing structures and architectural add-ons that make use of existing qualities it’s possible to have a more fluid approach to urban design than today’s notion towards a tabula rasa approach, where the site’s qualities often are neglected.
  - Repurposing is not only a design principle but more over a method for how to transform brownfield areas, within Skåne and beyond.

**ANSWER**

- Landscapes - both unbuilt and built - consists of several horizontal layers and can be used to cope with the movement of varying water levels, embracing the fluctuations of the water.

**CHALLENGE**

- Many of Skåne’s future challenges meet up in waterfront areas.
  - We need to find ways to cope with the fluctuations of sea levels and the forces of nature in a sustainable way.
  - Another issue is how worn and valuable cultural heritage buildings can be repurposed when they merge with an expanding city core and be able to function together with new systems and structures.
  - And how can we design to produce a habitable micro climate in such a windy and harsh environment as former harbour areas like Nyhamnen and other brownfields?

**IMPACTS**

- **MAPPING OF STRENGTHS**
  - Possibilities and visions at the site in Nyhamnen.

**IMPACTS**

- **NYHAMNEN**
  - The yellow circles are centred centrally located.
  - Thus is Nyhamnen already planned for mixed use.
  - How can we design to produce a habitable micro climate in such a windy and harsh environment as former harbour areas like Nyhamnen and other brownfields?
CHALLENGES

WATER LEVEL DIAGRAMS showing today’s normal levels and future scenarios when sea levels are rising.

Rising sea levels include the linear rising of water levels over time, the cycle level differentiation within seasons and months, and the occasional rapid changes such as storms and pressures from other seas.

If these layers of time and water occur at the same time, we are facing rises of up to three meters above today’s normal levels.

2.5 METERS ABOVE normal water levels show a large impact on Nyhamnen’s topography. The squares, inner courtyards and existing buildings will be covered with water.

AT 3 METERS ABOVE normal water levels, there will be isolated islands. In Nyhamnen it is three times needed to be prepared to be disconnected from the city center for periods of time.

This proposal suggests that the site should be able to function autonomously for these periods and contain all necessities for a functioning society.

THE FORMS OF the added structures are designed to let the sun primarily into the squares, inner courtyards and already existing buildings. They are at the same time forming the shape of the wind to travel over and around the outdoor populated areas.

SPACE AND MATERIALITY

WHEN THE water level rises, the lowest floor of the buildings won’t be direct accessible from the tides.

The boardwalk connected to the boardwalks are floating and follow the water and can be used as well as the walking paths on top of the second floor. The added buildings have a ground floor that is designed water proof, but the already existing building needs a sluice wall that prevents it from the water.

RESIDENTIAL

BUSINESSES

RESIDENTIAL

OFFICES

PUBLIC

PUBLIC

CONNCTIONS

PLAN LEVEL ONE shows the footprint of the existing and added structures, showing the connections between the inner courtyards to the wooden boardwalk and the central street along the existing buildings. These indoor spaces can be used for dwelling, public activities and other businesses.

PLAN LEVEL THREE shows the walking paths at seven meters height which becomes really important when water levels have covered the pier.

When the water reaches this level the ground floor of the buildings show their connection to the outside and instead uses the walking paths or the floating wooden boardwalk for transportation.

ROOFTOP PLAN SHOWING BUILDING HEIGHTS WITH NORMAL WATER LEVELS

2,5 meters above normal water levels will have a large impact on Nyhamnen’s topography and outdoor areas will be covered with water.

3 meters above normal water levels will have a large impact on Nyhamnen’s topography and outdoor areas will be covered with water.

2,5m above normal water levels

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