The Stockholm Fish Market project aims to create a centrally located fish market for the citizens of Stockholm, tourists, restaurants, and business owners, both near and far. The project has identified several key challenges facing the fishing industry today:

- Overfishing and overfertilization on the Swedish east coast, leading to a decrease in fish populations and size.
- The demand for fresh fish increases, requiring a sustainable and efficient fish supply chain.
- The global fish consumption has reached record levels, highlighting the need for sustainable fishing practices.
- Fish markets are often located too far from the source of the catch, leading to decreased freshness and quality.
- Transportation costs are high, impacting the economic viability of small-scale fisheries.

The Stockholm Fish Market project seeks to address these challenges by:

- Creating a local fish market that captures the value of fresh, sustainably sourced fish.
- Facilitating direct transactions between fishermen and consumers, reducing the need for中间环节.
- Providing an opportunity for fisherman to receive fair compensation for their catch.
- Promoting a local food economy, preserving traditional fishing practices and supporting small-scale fisheries.

The project is a collaborative effort between local authorities, fishing communities, and academic institutions, aiming to create a sustainable ecosystem for fish in Stockholm and beyond.
A dramatic decline in stocks has affected the industry negatively. Swedish government have reduced fishing quotas, but have struggled to gain respect from neighboring countries' authorities. This fact has prevented complete closure for cod - a measure marine biologists called for for many years. Stocks of cod in the Baltic Sea is considered to be seriously threatened. Reduced cod quotas have led to reduced profitability in commer. RED MEAT = CO2

LOCAL CATCH
SUSTAINABLE/SUPERIOR/FRESH

FROM A SENSITIVE AND CHALLENGED ECOSYSTEM
THE PRODUCT

TRANSAPRENCIE
SEA TO TABLE

Safeguard the small-scale fishery
OVERVIEWING THE MARINA. Arriving by foot from "Djurgårdsbron", the bridge leading over to this popular recreation and event island. At present, the stroll starts at the bridge and passes by Junibacken, the Vasa museum, the Liquor museum and the two boathalls and then the water connection is cut off. The new plan prolongs the waterfront promenade through a marine landscape, all the way to the ferry boats.

CONTEXT & VIEWPOINTS Different viewpoints have been considered during the project. Nybrokajen, arrival by ferry, Skeppsholmen and Galärvarvet bay.

PUBLIC TRANSPORTATION Public transit, both on land and water, connects the Fishmarket with the city. An approximate 7 min journey from the city center by cable car. The market is also connected to a high traffic road.

AQUAPONIC FARMING

Aquaponic farming is a combination of aquaculture and hydroponic farming. The fish tank waste are rich nutrients for plants. The water is filtered through the plants and then the cleaned water is recycled back to the fish tank. 5 kg fish requires 4-8 liters of water. The fish tank in the market hall constitutes 8,400 liters. The increased demand for fish and fish protein has resulted in widespread overfishing in wild fisheries. Fish farming offers another source, thus relieving the natural fisheries.

FISH CONSUMPTION

The future consumption of fish products is affected by a variety of factors and conditions. Some of them are possible to forecast, others are hard to predict. Listed here are a number of trends which seem to be a consensus that they will continue to affect fish consumption over a number of years. It generates an European consumer wants good healthy and environmentally sound food that can be cooked quickly. The market should be low price and available all year round, an equation not easily solved.

Main trends:

- Increased market for organic food
- Healthy food in focus
- Environmentally conscious consumers that due to the risk of depleted stocks choose not to eat fish
- Price-sensitive consumers who choose cheaper alternatives such as chicken
- Consumers who opt out of fish because it's difficult and complicated to cook
- Consumers who opt out of fish because it's not tasty

These trends have been a consideration when forming the program of the Fishmarket. The idea is that the customers moves through the market stands, absorbs the atmosphere that reveals parts of the process when handling fish. At one counter you can buy your local perch with specifications like which fisherman caught it, in what water and when. At another you can get a demonstration and try different ways to fish your fish. The fish tank and hydroponic farming together represent an aquaponic farming system that demonstrates a reconstructed ecosystem. Large glazings inside the entrance shows the fish smoker. At the end of the market hall, the event kitchen could be used for different group constellations, like a school class or business group.

PROGRAM LAYOUT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

4 liter fish tank

5-10 dm² growbed space.
THE PROGRAM

WEST ELEVATION 1:50

SECTION PERSPECTIVE
THE MARKETHALL FACING THE MARINA: The folded roof connects with the marina, the glass facade with its pivot glass doors allows for easy access from the marina promenade and the water.

INTERIOR PERSPECTIVE

The aquaponic system stretches like a spine through the markethall.

Two separate roof constructions define the market- and auctionhall.

Markethall:
Diving the impression of one sheet of steel, the roof wraps over the markethall, defining the entrance and opening up to the city like a lantern. Facing north, a slightly more humble overhang embracing the marina. The whole construction work as a truss, touching ground on several places and resting/leaning on the constructive wall of the auctionhall.

Auctionhall:
An enclosed prefabricated concrete box, leaving space for the neighbouring building. The vaulted polycarbonate roof rests on thin 10x100 centimeter concrete beams, CO 700 centimeters, allowing the light to filter through.
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