Kop van Schouwen Freshwater Project

"An Amazing Agricultural Alteration"

LIVING LAB Schouwen-Duiveland

Vision Statement

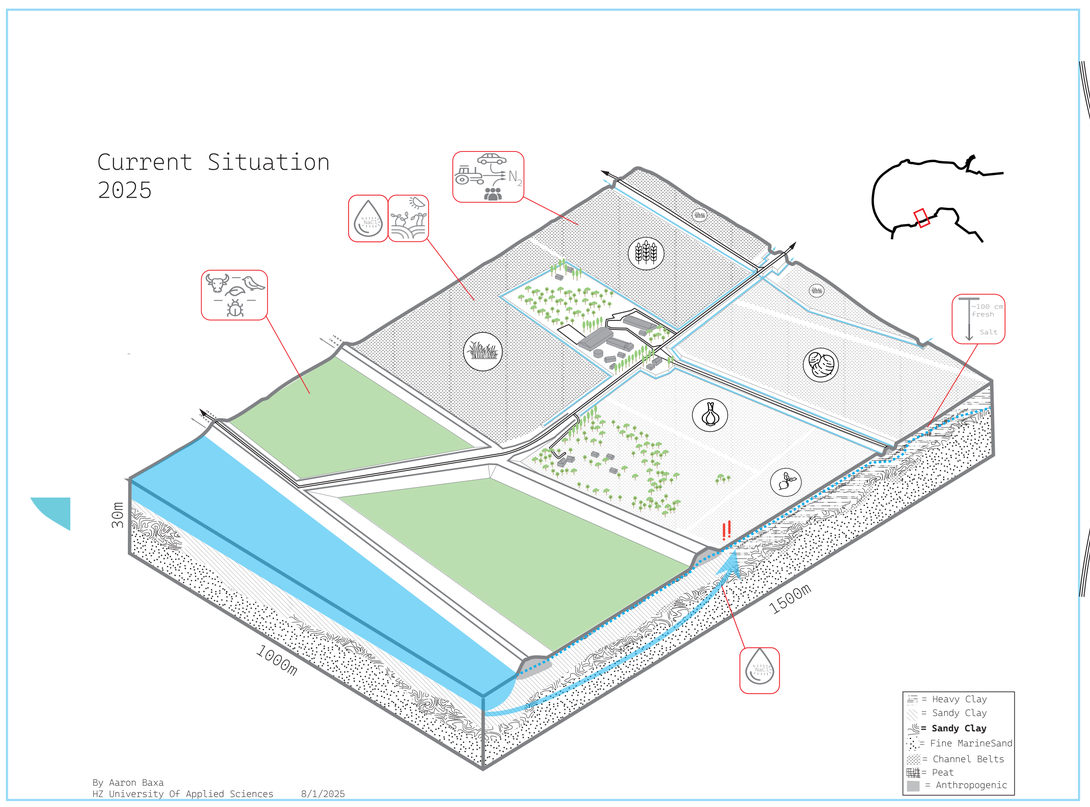
Enabling a healthier environment for Schouwen-Duiveland through retaining and reusing freshwater in a biodiverse landscape.

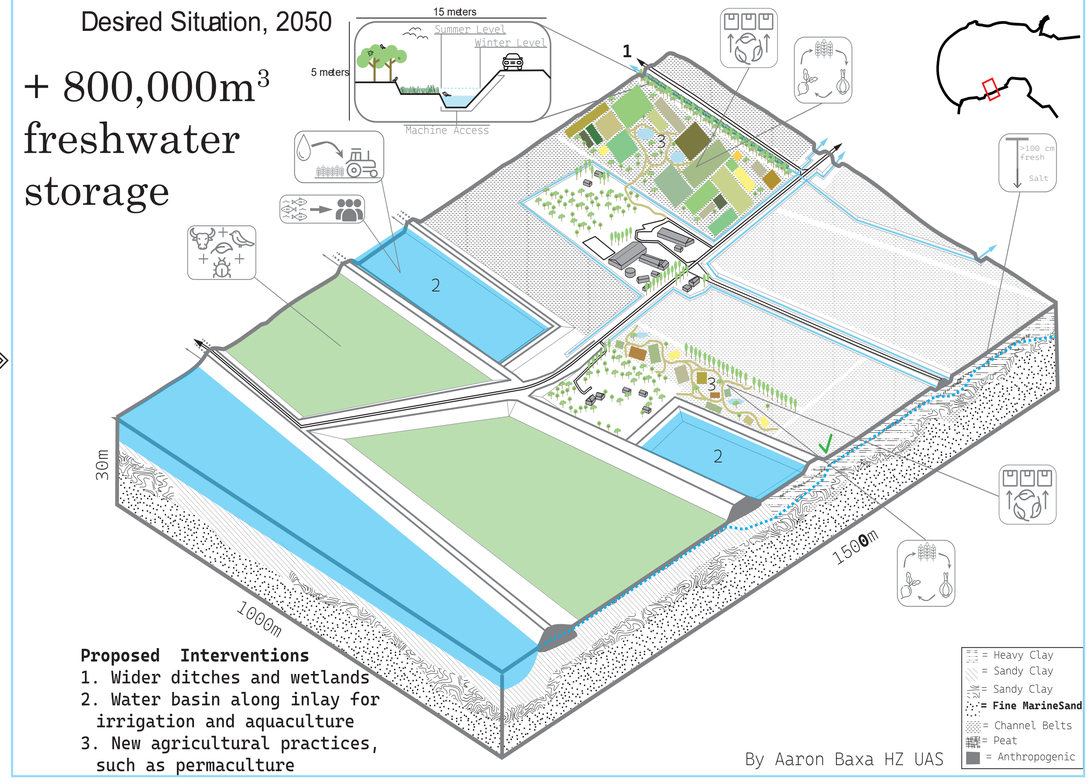
Objectives

- Retain and re-use freshwater
- Improve biodiversity in the area
- Introduce new agricultiural practices such as permaculture and foster ogranic farming

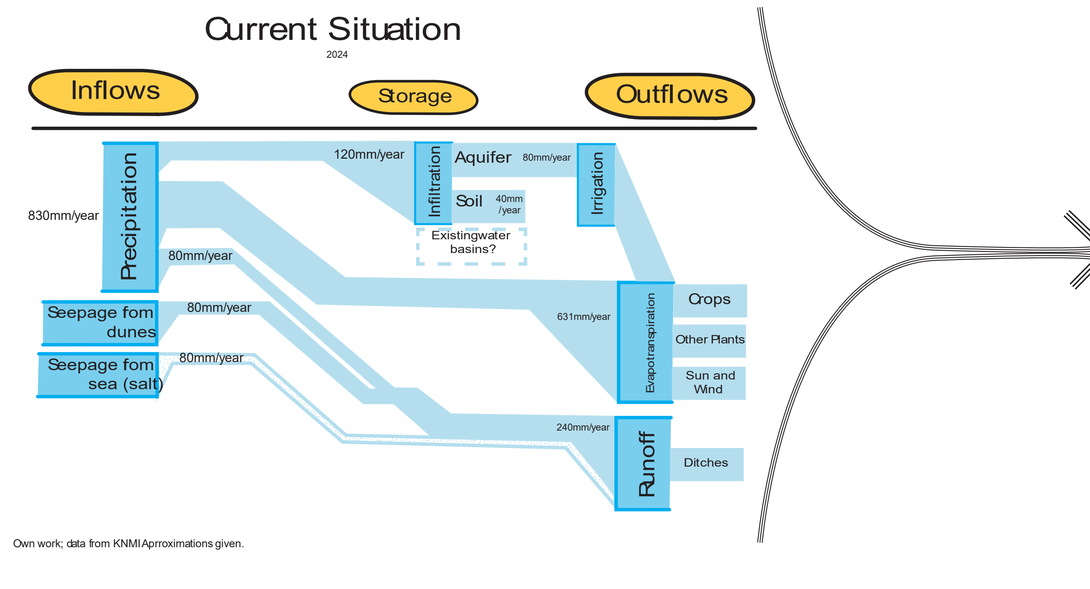
Project area image courtesy of Aaron Baxa. Taken Sept. 9th 2024 at the Plompe Toren.

Tile Visualizations of the Project Area:

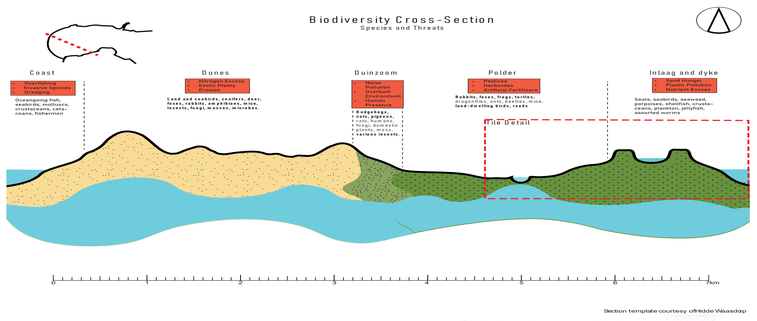




Spatial Quality



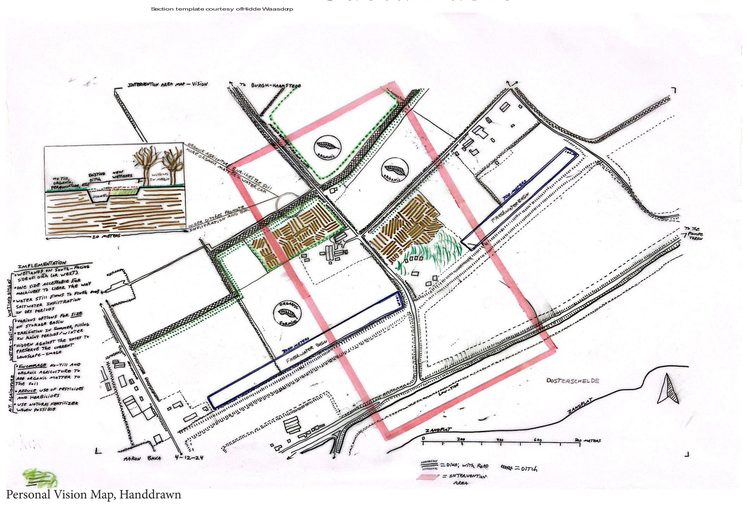
From Threatened Landscape...



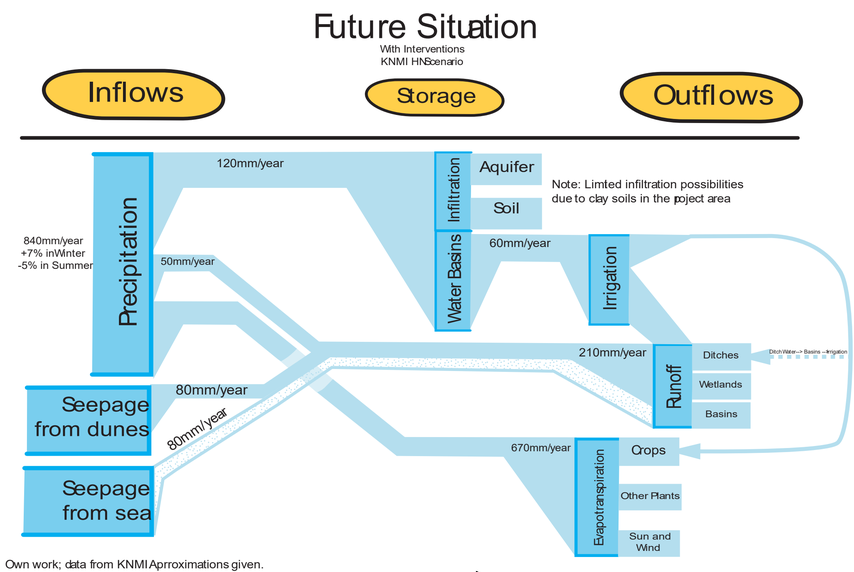
....to Healthy and Sustainable

Below: example of an agricultural wetland in practice. Such landscpaes act as a filter for excess nutrients, treating water before it passes to other environments downstream, in this case to the Oosterschelde.

Image: The Wetlands Initiative. https://www.wetlands-initiative.org/



Personal Vision Map, Handdrawn



With this project, the primary focus was on maintaining biodiversity in an agricultural landscape. This goal was accomplished by modifying the present landscape in such a way that maintains the current spatial qualities while making accomodations for new habitats and pathways for animals.

The projected climate by 2050 in this region will become warmer and wetter, so the secondary focus was on the retention and re-use of freshwater in storage basins. Ideally such an excess of water could be infiltrated but due to clay soils in the area this is impossible.

Finally, the project includes a provision to foster sustainable agriculture, a culmination of the previous two tenets. By introducing practices like permaculture, organic matter is infused into the soil, thus increasing capacity to hold moisure and nutrients. Additionally, organic farming practices use less artifical fertilizers and chemicals, providing a friendlier landscape to flora and fauna.

By Aaron Baxa

Strategic Spatial Interventions (CU79108V1)

This study part of "project Klimaat- en waterrobuust Laag-Nederland van nu naar 2050"