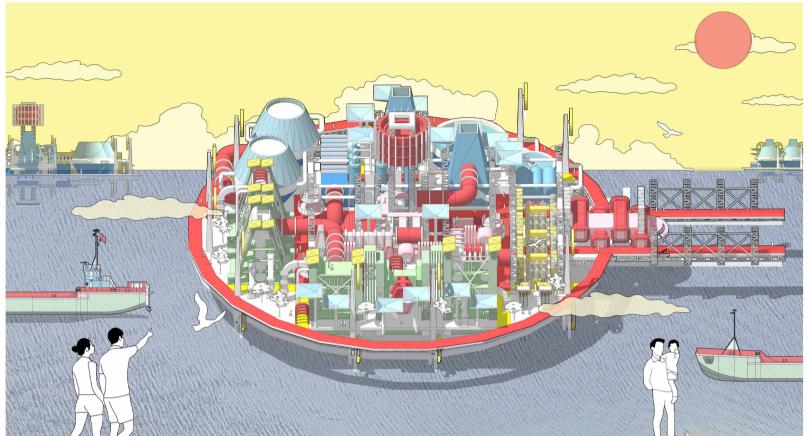
'The Apocalypse of Land from Twoness Concept to The Eternal Future of Rural'



1. Redefine Rural

At the beginning of its development, urbanization has indirectly influenced the understanding of the meaning of rural areas. Because based on the concept of rural dualism, the countryside is always seen only as something that is contrary to the urban. Over time, rural areas are required to meet urban needs. Rural areas are exploited to develop agriculture and industry. So, this has resulted in new characteristics that can shift the understanding of the existing meaning of rural. If urbanization can significantly influence the rural development process. So, to what extent can a new challenge like climate change transform and redefine rural areas in the future?

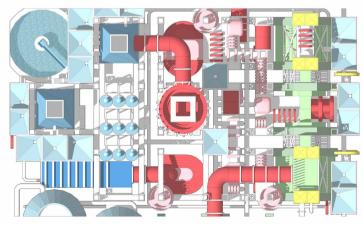
2. The Endgame of Rural

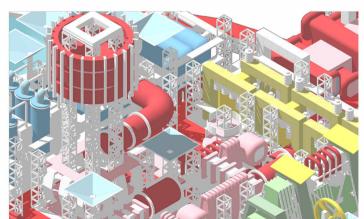
One of the greatest challenges of human civilization today is significant climate change. In the context of the Yalova region, Turkey's climate change can be shown by rising sea levels that continue to increase every year. These two extreme changes can have a major impact on the sustainability of human life. In the worst-case scenario, sea level rise can cause flooding to drown coastal areas. On the other hand, extreme temperatures also have a negative impact on the agricultural cycle which can lead to crop failure and a sustainable food crisis in the future.

3. A New Hope

To quote Bjarke Ingels, "The human body is made up of 70 percent water. And the surface of our planet is 70 percent water. And it keeps increasing. And even if the rest of the world wakes up tomorrow and becomes carbon neutral at night, there are still island nations destined to sink in the ocean, unless we also develop alternative forms of floating human habitat. And the only constant in the universe is change. Our world is always changing, and right now, our climate is changing. No matter how critical the crisis will be. One thing I understand is that we have the power to adapt to change and we have the power to shape our own future." Then there will always be hope for the sustainability of human civilization, so let architecture help make it happen.







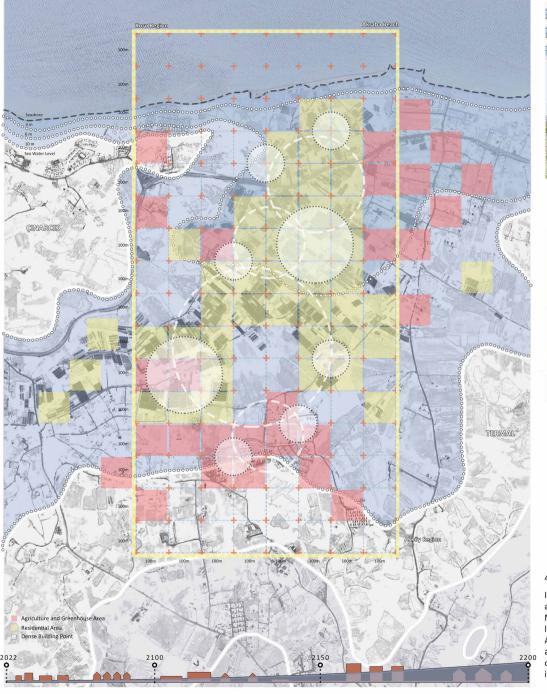
2023 JACQUES ROUGERIE FOUNDATION AWARDS

Project's Name

Description

A Tale of Rurality











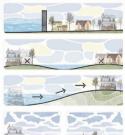


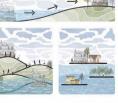


















4. Realizing A Tale

In the site analysis process, the coastal area of Akraba beach is the area with the second largest sea level rise impact after the Yalova Merkezi. The flat topography and only a few centimeters above sea level make this area a serious threat of flooding and erosion. Approximately 70% of the area that will be affected is agricultural area, which is filled with the floraculture sector and greenhouse cultivation for ornamental plant farming. Then the rest of the area is covered with housing and green open land.

In addressing this problem, the architectural approach was taken by reflecting on a similar project by Japanese architect Kiyonori Kikutake entitled 'Marine City' in 1958, which created an alternative floating city structure on the coast of Tokyo Harbor. By responding to the problem of sea level rise as a challenge to be faced, and existing conditions that have the same characteristics of the coastal area, the structural solution and floating city concept provided by Kikutake can be implemented as a calculated reference design.

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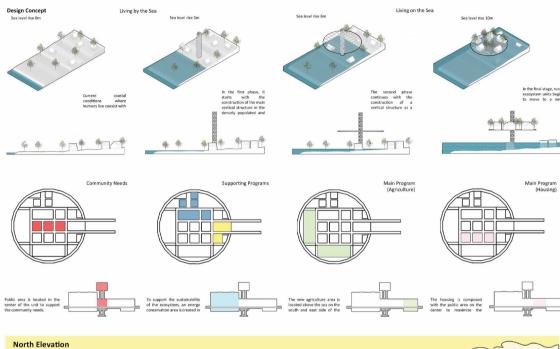
A Tale of Rurality



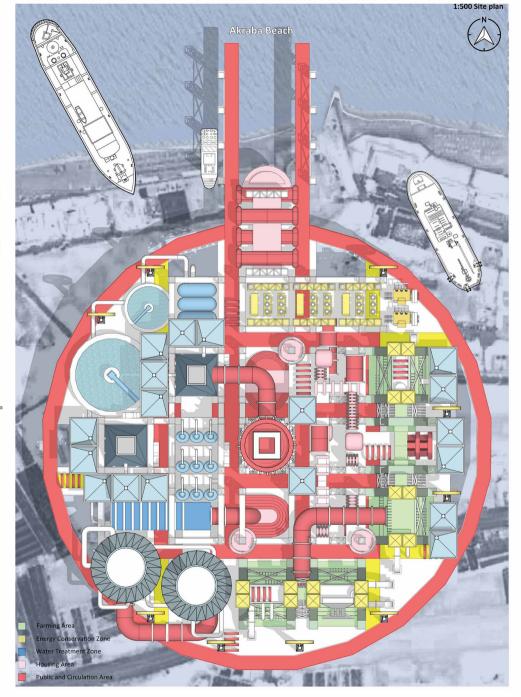
5. Visualize the Unexpected

In the process of deepening the problem of sea level, the flood disaster that will be faced is a long-term threat. So that design solutions are offered in several phases which are applied in stages. Unlike the actual built environment, this causes the need to provide new alternative construction methods for different settlements to increase.

As a solution, the above-ground floating construction is proposed as a platform for the new rural ecosystem in the future. This floating city structure is used so that the city platform can adjust to the sea level. In addition, under the influence of environmental threats these platforms are shaped in a circle so that the loads on the structure can provide a unique combination of flexibility and strength to create greater resilience.







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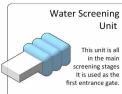
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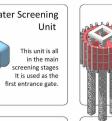
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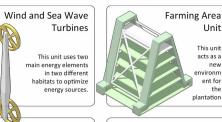


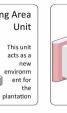












Unit

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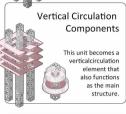
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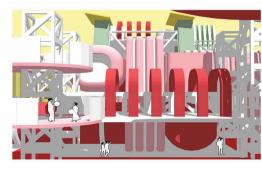


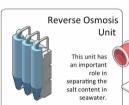
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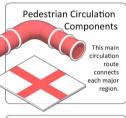
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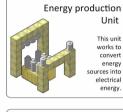


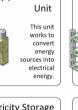






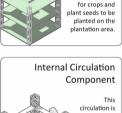
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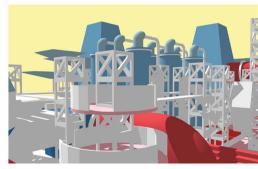


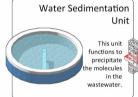
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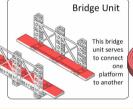
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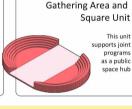


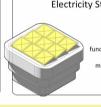


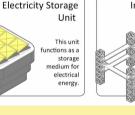


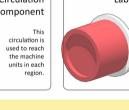


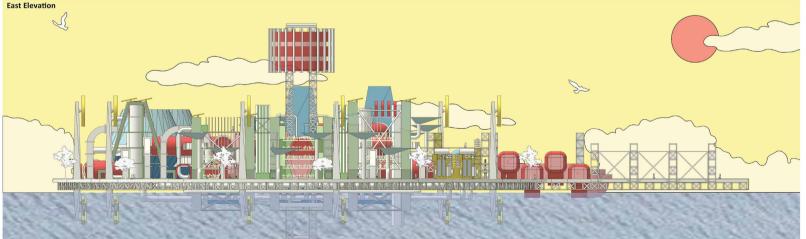












6. Retroverted the Realm

Each platform is placed according to the density of construction in the existing conditions in the present. Then the platform will be developed with a radius ranging from 125m to 250m. The platform will be conditioned to accommodate most areas of agriculture, settlement, and management of renewable energy resources. Broadly speaking, the ecosystem life in this area will be moved on a platform with a new structure above sea level. The main components presented include a floating city structure, vertical and horizontal circulation elements, housing modules, multi-stored agricultural modules, and energy resource management elements (Wastewater and natural resource management). Each component is divided into three different platform levels with adjustments to the effectiveness of their respective functions. And circulation between platforms will be adapted to sea transportation in order to maintain the dynamic principle of each platform.

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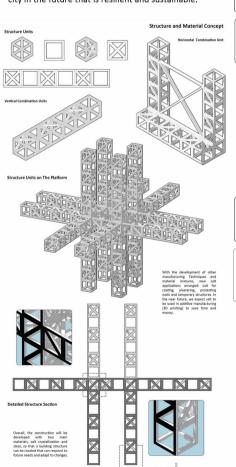
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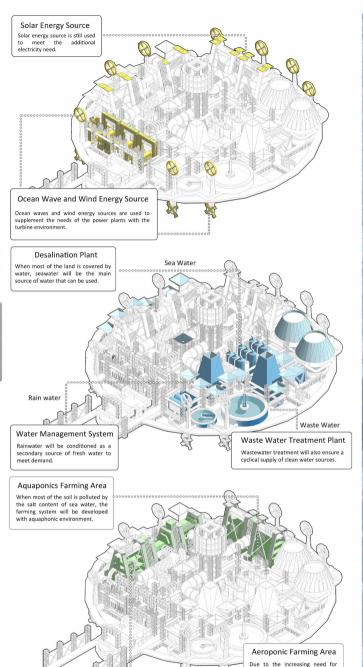


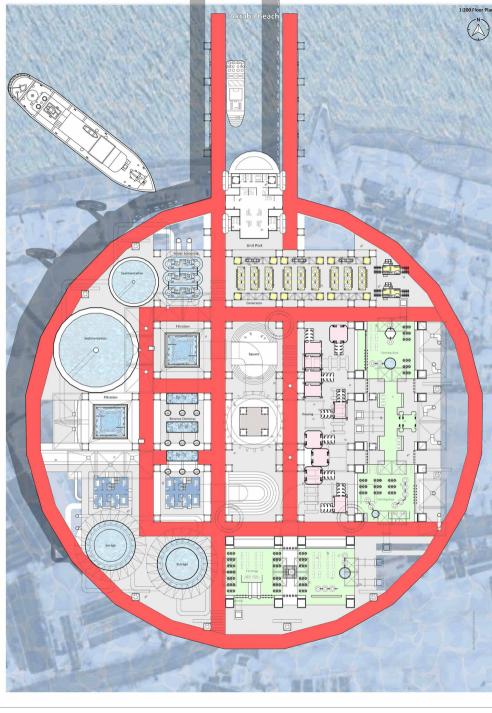


7. Perpetuating the Eternal

The loss of land due to flooding as a result of this sea level rise, has a major influence on the agricultural production system. The levels of salt and sulfuric acid contained in seawater can affect the quality and level of soil fertility. So that multilevel agricultural production methods and hydroponic applications are new options in the development of the agricultural sector in the future. At the same time, the method of water management and renewable energy resources will become a new important task that must be understood. Utilization of rainwater and wastewater management is focused not only on creating water reserves but also minimizing pollution in seawater. On the other hand, the management of renewable energy resources by utilizing wind and ocean waves is also the main calculation to encourage the concept of a floating city in the future that is resilient and sustainable.







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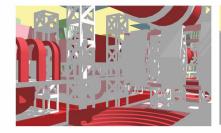
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space, the development of plantations under sea water is also being developed with an aeroponic



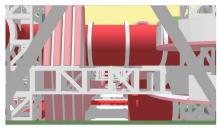


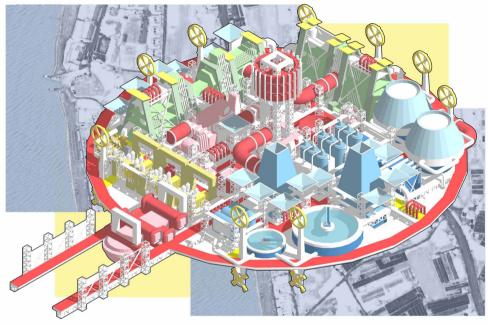


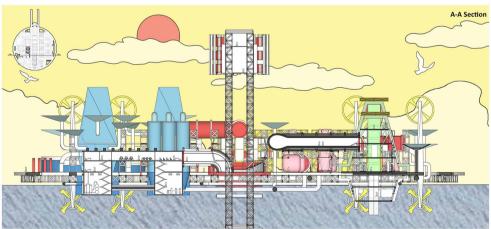


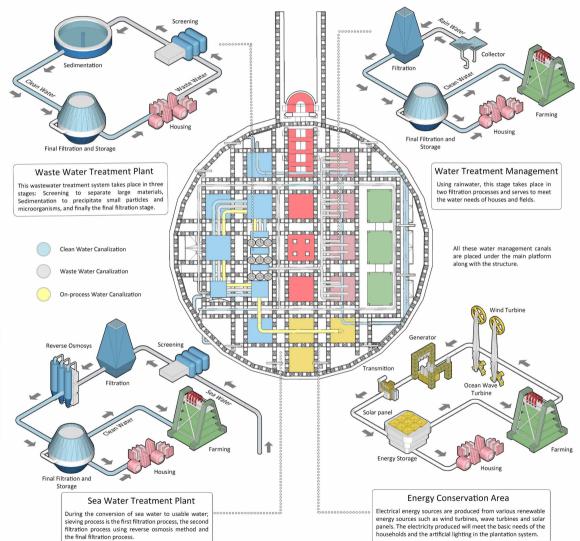












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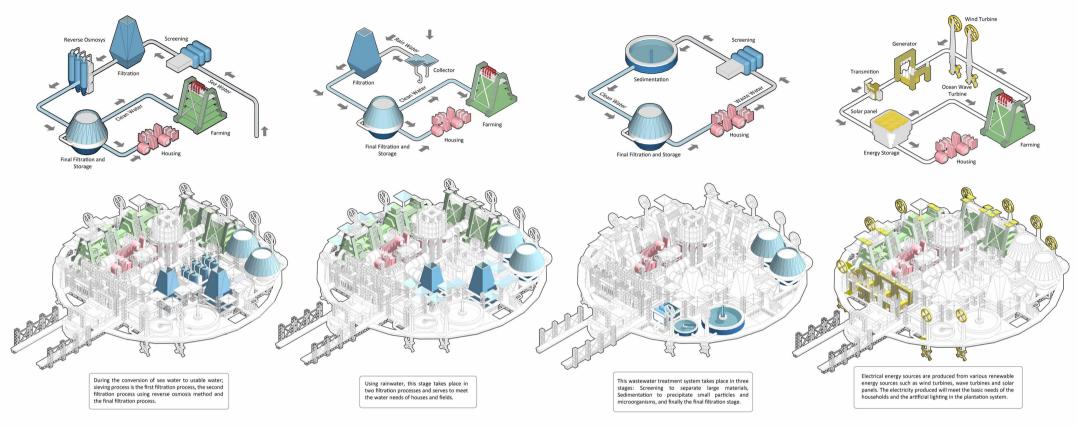
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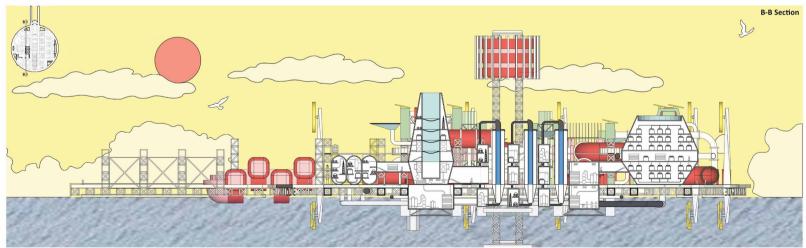
Project's Name

A Tale of Rurality



Sea Water Treatment Plant Rain Water Treatment Management Waste Water Treatment Plant Energy Conservation Area





8. Turning the apocalypse into a blessing

In the context of regions affected by extensive saltwater flooding, a groundbreaking approach has emerged, offering the potential to create entirely new landmasses through innovative techniques centered around the extraction of salt from seawater. This transformative process involves a radical reconfiguration of traditional seawater desalination methods, specifically through the application of electrodialysis. By harnessing this cutting-edge technology, we can effectively convert saline water into valuable construction materials. The remarkable outcome of this process is the metamorphosis of sodium chloride, commonly found in seawater, from its liquid, irregular state into a solid, rigid material. Consequently, the abundant salt resource that would otherwise contribute to the depletion of arable soil now finds itself repurposed and reimagined as a versatile asset in the development of artificial hybrid architectural elements and the production of rock salt. As a result of these innovative advancements, new sheltered environments emerge above the once submerged seawater, characterized by the fascinating agglomerations of crystalline salts.

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