

opPORTunity

Foreword

The Beirut port explosion can be used as an opportunity and a springboard for better planning for Beirut's port. The remnants of the horizontal conflict between the community, the conflict with the government that continues to this day.

We feel that the value of unity is an important value and will be put forward in the design of this port. So, we give the slogan "opportunity" which means that the Beirut port will be used as an opportunity to become a forum for unity or unifying the people of Beirut.

The availability of green and public open space in the city of Beirut also reinforces the lack of unity value. Where public open spaces in various cities are generally used as a unifying place, a place for gathering and socializing, strengthening relations between communities.

This plan considers the driving forces from social, economic, technological, environmental and political, analyzes any problems from each of these driving forces then looks at the worst-case scenario to the best-case scenario, and finds "Toward Smart, Sustainable, and Resilience Port. "As the best-case scenario that we have made as our vision for designing the Beirut port.

Vision

Toward Smart, Sustainable, and Resilience Port

Mission

The mission of this design is, to develop an area that refers to port development based on smart port technology, to improve the environment through the application of sustainable design principles, to reduce the negative environmental impacts of operations and development of the area, to build a resilient social and economic environment, to develop infrastructure that is sustainable. Resistant to climate change, and developing areas that are responsive to disasters Health (Next Normal)

Design Principle

In this design the following principles are applied, implementing the Internet of things, Big Data, Machine Learning, High speed data (5G), implementing smart renewable energy, implementing smart cargo, implementing Smart Harbor, implementing Smart Utilities, implementing Smart Storage, implementing Smart Quays implements Smart Transport, maximizes green open space and public open space, uses vertical gardens, uses a green roof, provides ship waste treatment facilities, provides plants and trees as shade, filters and clean air providers, provides facilities that can enhance collaboration and economic boosters, providing sustainable self-reliance facilities, namely seawater desalination facilities, and the use of solar panels, providing health facilities, paying attention to the principles of ERP (Enterprise Resource Planning) and CHSE Cleanliness, Health, Safety, and Environment

Design Concept

Our concept is to first separate the restricted zone and the public zone. The restricted zone is a port operational function, while the public zone is a passenger terminal function, a public park function consisting of a memorial park silo and various thematic parks, a concert hall function, a commercial function, a health facility function, and a techno park function.

Public Park is a function that we put forward, placed in a position that is directly connected to the center of Beirut and extends to the silo point which we make a memorial park to commemorate the 2020 port explosion. In this public park, it can be used for various community

social activities and also various age so that there is a close relationship between the community.

The Concert Hall and its supporting facilities are a venue for musical or artistic performances, where Beirut has a long and strong history from time to time. Commercial functions are provided to support port activities and relate directly to the surrounding area. In this function there are hotels, shopping centers, and food and beverage areas. Technopark functions are provided for research and development, industry and IT businesses, have public open spaces and apply green building principles.

The Port function puts forward the compact principle by maximizing land use. The main function of the existing port is still accommodated in this design.

Pedestrians and cyclists are prioritized to reach all zones of the area. Motorized vehicle users can park their vehicles in multi-storey automatic parking lots that are placed at several points in the area. Circulation in the port restricted zone is an internal port circulation that is prioritized using automated terminal tractors, while inbound and outbound ports use trucks.

Train is also a transportation used for inbound and outbound ports. Train is a transportation that prioritizes effectiveness and efficiency as a means of transporting goods compared to other transportation, so we provide and plan for this port to be connected later by train.