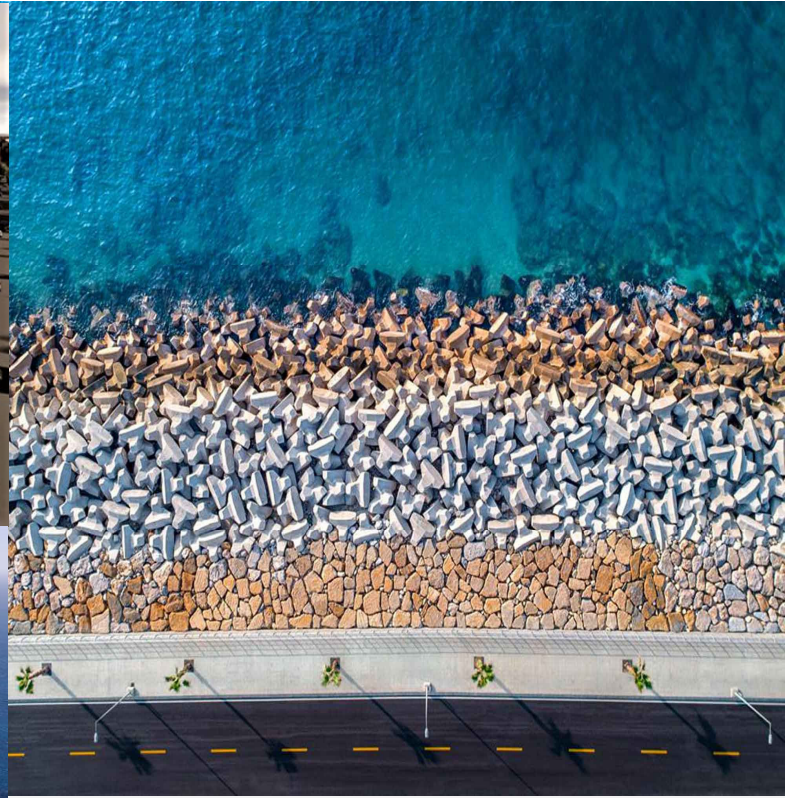
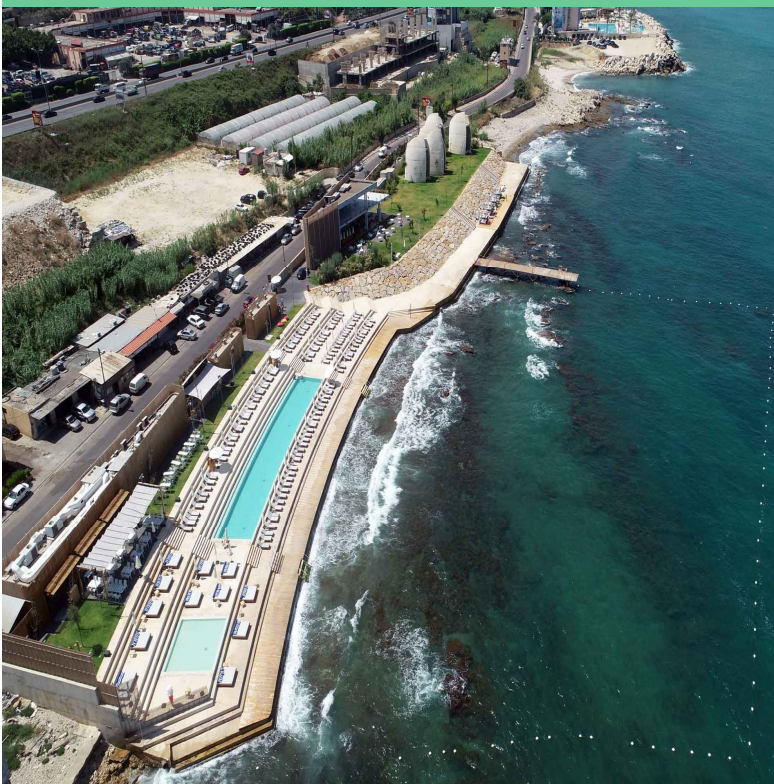




WATERFRONTS

SEATEC SARL

We understand the language of Waves



LEBANON

BYBLOS, DOWN TOWN, 31 ERNEST RENAN ST, BEAYNI CENTER, 1ST FLOOR

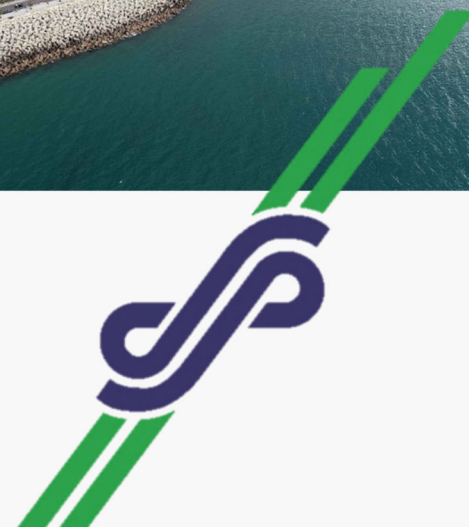
PH : 00961 9 55 00 22

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SUPERVISING EXPERTS AND TECHNICAL ENGINEERING CONSULTANTS SINCE 2000

/ ABOUT US /

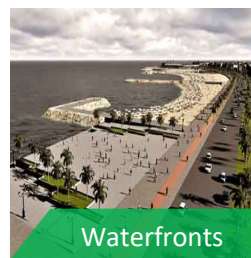
SEATEC provides its clients with design and supervision services in coastal and port engineering, covering surveying, site investigation, tender and detailed design, numerical modeling, feasibility and EIA studies, permitting, construction planning, management and supervision.

Serving public as well as private sectors in Lebanon and abroad since 2000, **SEATEC** is dedicated to give its clients the best engineering assistance.

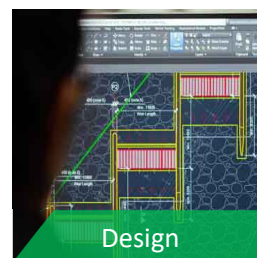


OUR SERVICES

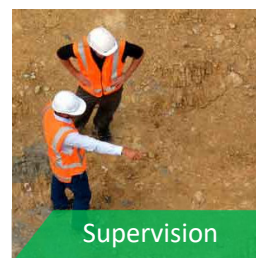
*SEATEC IS COMMITTED TO PROVIDING ITS CLIENTS
WITH THE BEST ENGINEERING SERVICES COVERING THE FOLLOWING:*



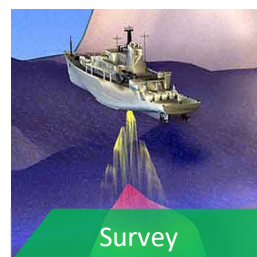
Waterfronts



Design



Supervision



Survey



Enviro Studies



WATERFRONTS – SEATEC scope

• DESIGN

- Conceptual, Tender and detailed design
 - o Waterfront master planning
 - o Dredging plan
 - o Berthing configurations for marinas
 - o Navigation plan (ATON)
 - o Marine structures (Coastal protections – walkways - breakwaters - quay walls – platforms)
 - o Cars circulation / parking
 - o Landscaping and public spaces
 - o MEP (Electrical and water supply, lighting, urban furniture...)
 - o Feasibility studies
 - o Detailed drawings
 - o Tender documents, technical specification and BOQ
 - o Assistance of Client in bidding procedures
 - o 3D views and animation
- Modeling
 - o Numerical modeling of deepwater and nearshore waves and basins disturbances
 - o 2D/3D physical modeling and collaboration with international companies
- EIA / Permitting
 - o EIA studies
 - o Permits follow up

• SURVEY

- Topographic survey
- Bathymetric survey (multi beams echo sounding)
- Underwater inspection (diving, underwater pics and videos, sampling, assessment of existing structures conditions)
- Geotechnical investigation: Follow up on site of drilling and sampling operations (onshore and offshore)

• SITE SUPERVISION

- Follow up by SEATEC supervision team of works execution on site (daily presence)
- Instructions for contractors
- Inspection
- Approval of contractor payments

MPWT
DGLMT
DGRB
POTA
EDL

: Ministry of Public Works and Transport
 : Directorate General of Land and Marine Transport
 : Directorate General of Roads and Buildings
 : Port Of Tripoli Authority
 : Electricité Du Liban





WATERFRONTS

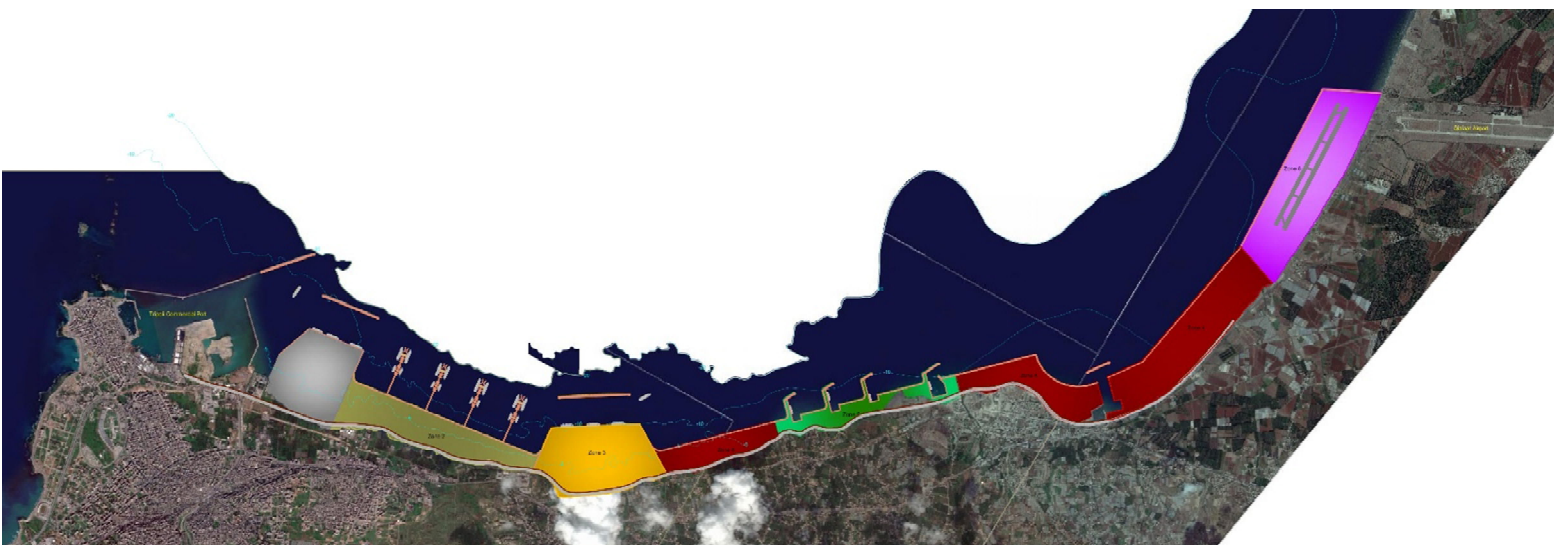
- **REC NOR (LEBANON - CLIENT : Chamber of Commerce of Tripoli and North Lebanon)**
 - Conceptual Design of a Land reclamation from Tripoli to Klayaat at Northern Lebanon, covering an area of 11,700,000m² along a coastal length of 20km, including the extension of the Tripoli port container terminal, a LNG / oil and gas jetties/ zone, industrial, general cargo and mineral terminals zone, and the extension of the Klayaat Airport. (2019 - 2020)
- **KALAMOUN WATERFRONT (LEBANON – CLIENT : MPWT / DGLMT / KALAMOUN MUNICIPALITY)**
 - Design of for reclaimed area, coastal protection and rehabilitation of the existing breakwater (with rocky protections, recreational and sportive facilities, landscaping, walkways... (2006 - 2007 - 2008 - 2009)
- **WATER TAXI ALONG LEBANESE COAST (LEBANON – CLIENT : LEBANESE MARITIME COMPANY)**
 - Conceptual Design of a water taxi system along the Lebanese coast. (2011)
- **BYBLOS SUD VILLAGE (BYBLOS • LEBANON – CLIENT : TPD)**
 - Waterfront Design including floating pontoon. (2008 - 2009 - 2011 - 2013)
- **KALANI RESORT WATERFRONT (HALAT • LEBANON – CLIENT : KALANI)**
 - Design and Supervision of waterfront: rocky riprap / concrete bleachers coastal protection, swimming pools... (2014 - 2015 - 2016 - 2017 - 2018)
- **JOUNIEH WATERFRONT (JOUNIEH • LEBANON – CLIENT : MPWT / DGLMT)**
 - Conceptual Design of Jounieh waterfront along 4km with creation of a sandy beach (1600m), coastal walkways, public spaces, landscaping, marinas, coastal protections, recreational areas, bleachers... (2019 - 2020)
- **TROPICAL BEACH RESORT WATERFRONT (NAHR EL KALB • LEBANON – CLIENT : TROPICAL BEACH)**
 - Conceptual Design of waterfront and beach development: detached breakwater, sandy beach, small berths, wooden bungalows on piles... (2008)
- **DBAYEH WATERFRONT (DBAYEH • LEBANON – CLIENT : MPWT / DGRB)**
 - Design and Supervision of the rehabilitation works related to the heavily damaged rocky riprap along existing Dbayeh highway (L=1,359m) / Protection with concrete Accropodes Blocks, infrastructure (Electrical supply, pipes, manholes, lighting, storm water system, walkway...) (2016 - 2017 - 2018)
 - Conceptual design of phase 2: Public spaces, bleachers, landscaping, recreational areas, public beach, kiosks, car parking... (2018 - 2019)
- **LINOR WATERFRONT (ANTELIAS • LEBANON – CLIENT : PRIVATE)**
 - Conceptual design of a waterfront including a total reclaimed area of 1,225,000m² (Residential, villas, retail, offices, public spaces, recreational areas, coastal areas, waterways and channels, marina, fishing port...). (2020)
- **SAIDA WATERFRONT (SAIDA • LEBANON – CLIENT : MPWT / DGLMT)**
 - Design of a new waterfront for Saida sandy beach, located between the maritime castle and the sport stadium, along 2200m; Assessment of the actual situation and erosion phenomenon of the beach, Design of new L,T and I shapes rocky groynes and tombolos with sandy dredging and beach artificial nourishment; walkways, public spaces, landscaping, lighting, bleachers... (2018)
- **SARAYA AQABA (AQABA • JORDAN – CLIENT : PRIVATE)**
 - Design of submerged breakwaters for the lagoon protection, ATONs, water taxi berthing configuration and navigation within the lagoon, quay walls and shore protection... (2006 - 2008)
- **MARASSI NORTH BEACH (AL-ALAMAYN • EGYPT – CLIENT : HOMAN Group / Owner: EMAAR)**
 - Design review and technical assistance for the contractor / artificially nourished beach. (2020 - 2021)



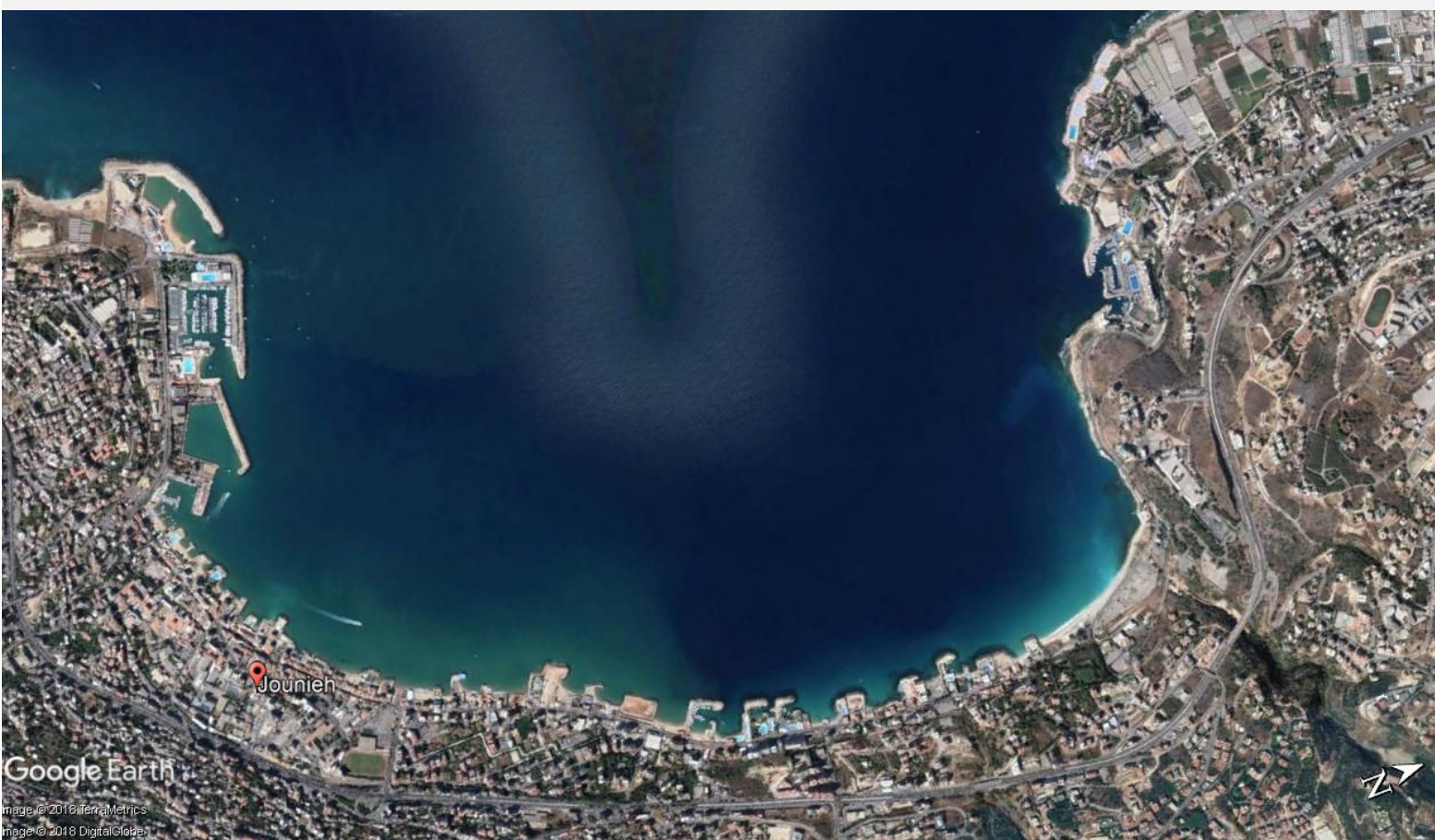


KALANI RESORT



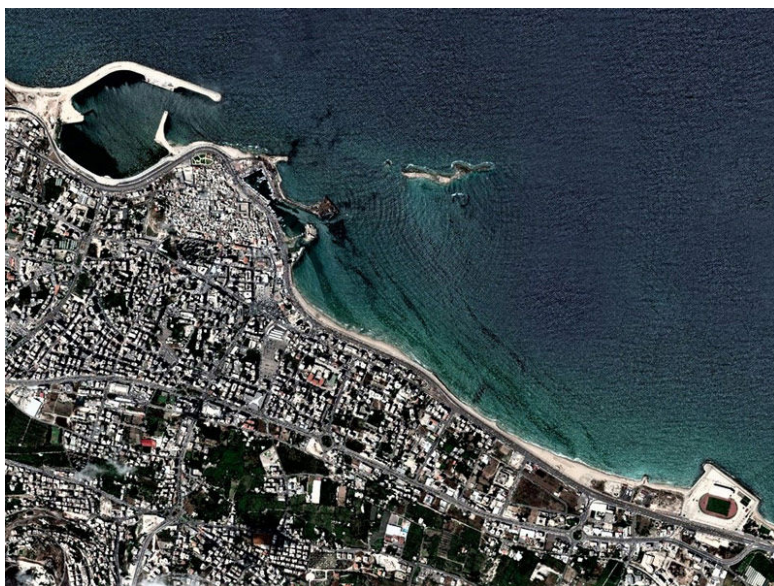


RECNOIR



JOUNIEH WATERFRONT

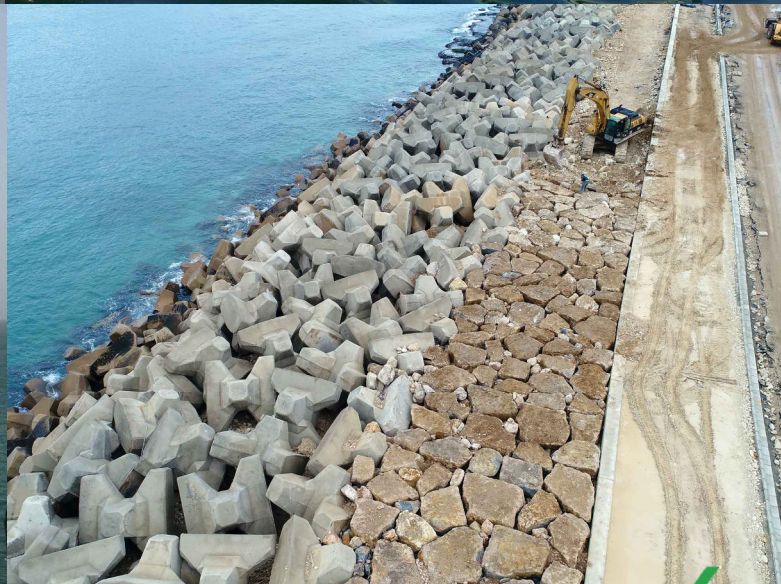
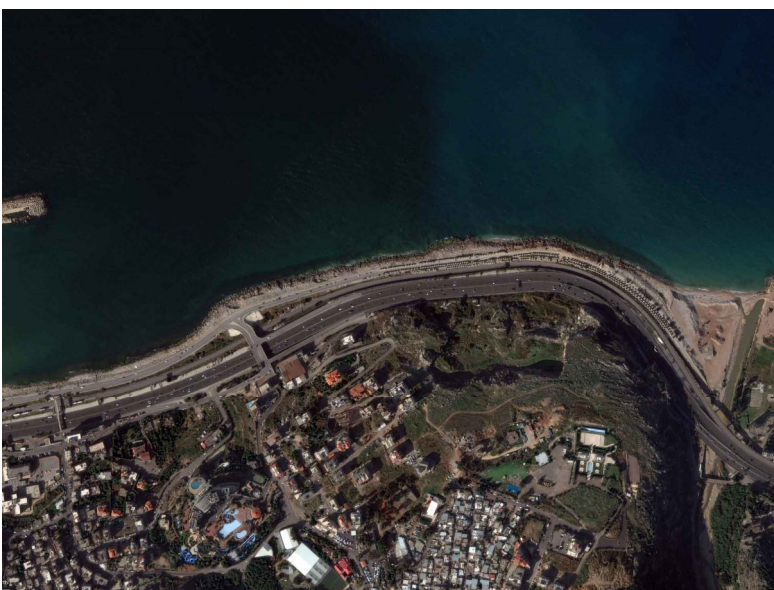




Ministry
Of
Public Works and Transport
Directorate General of Land and Maritime Transport
Saida Beach Protection and Nourishment
SEATEC

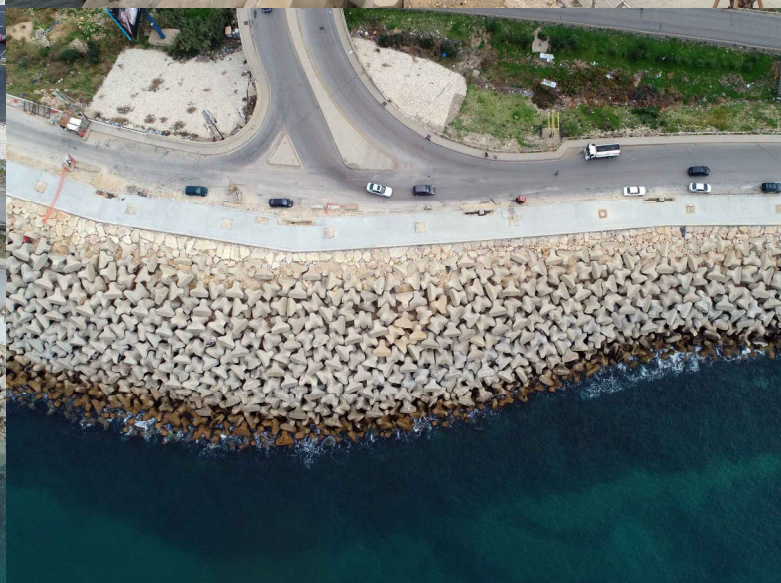
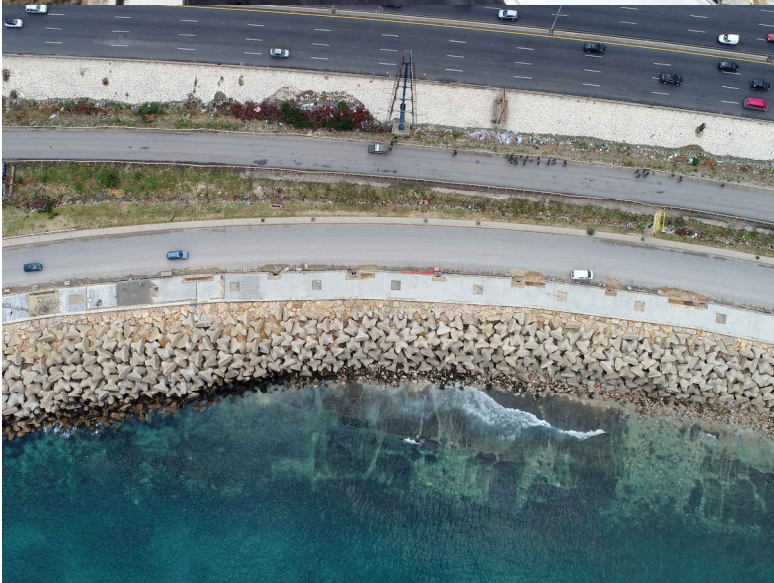
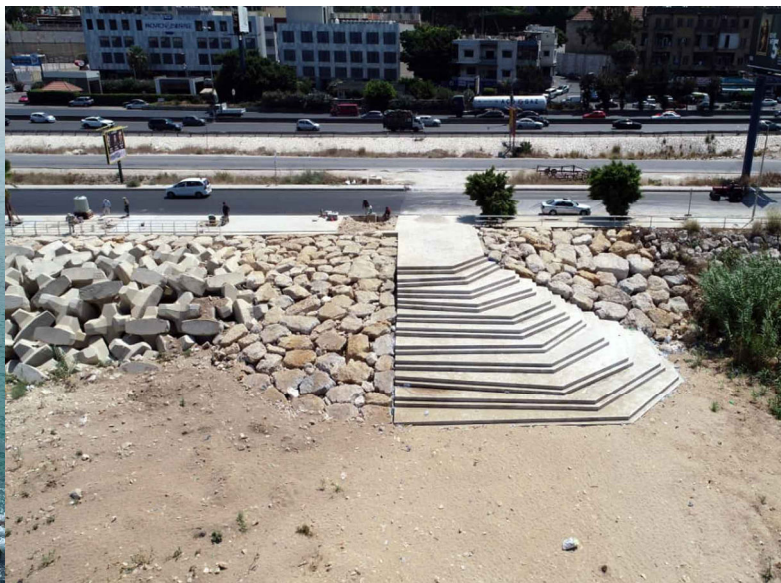
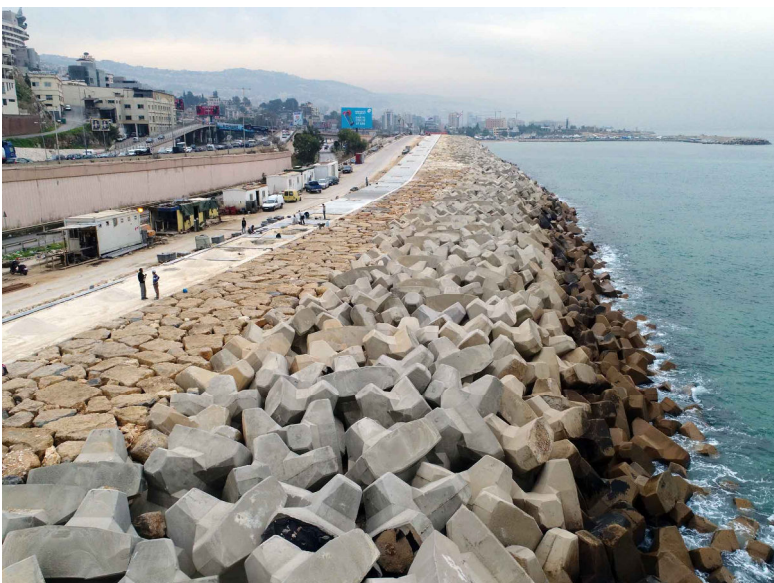
SAIDA WATERFRONT





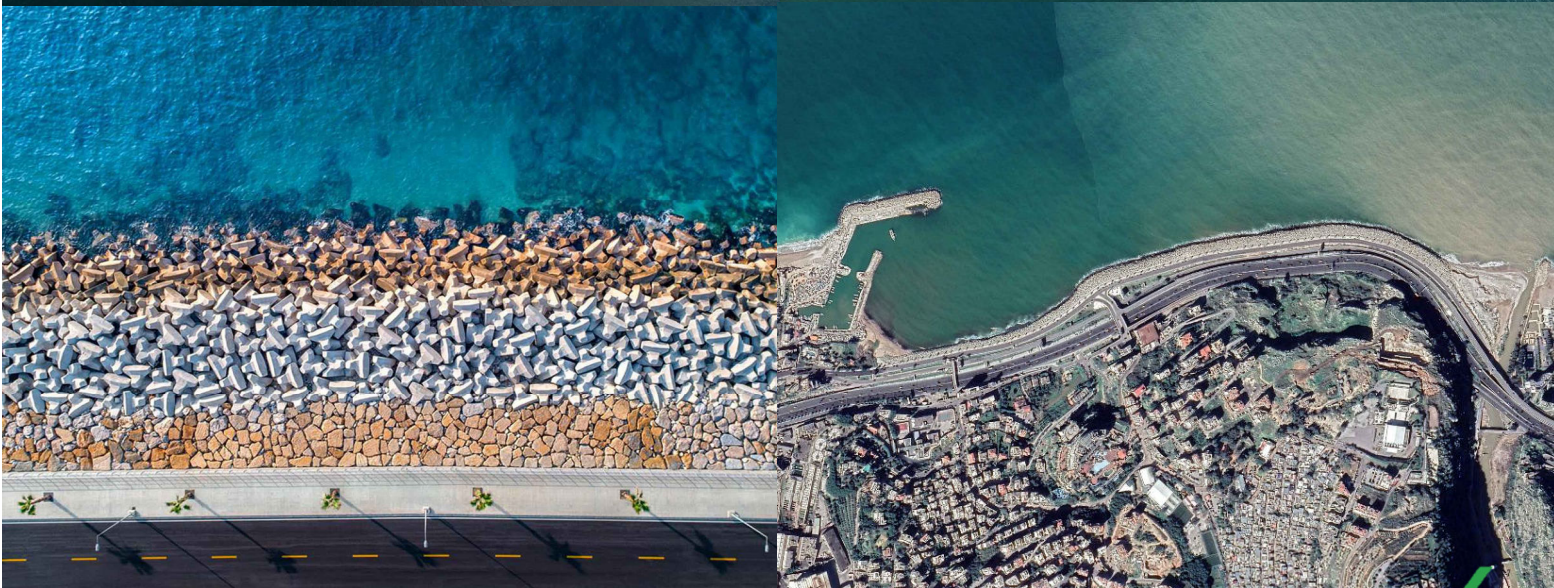
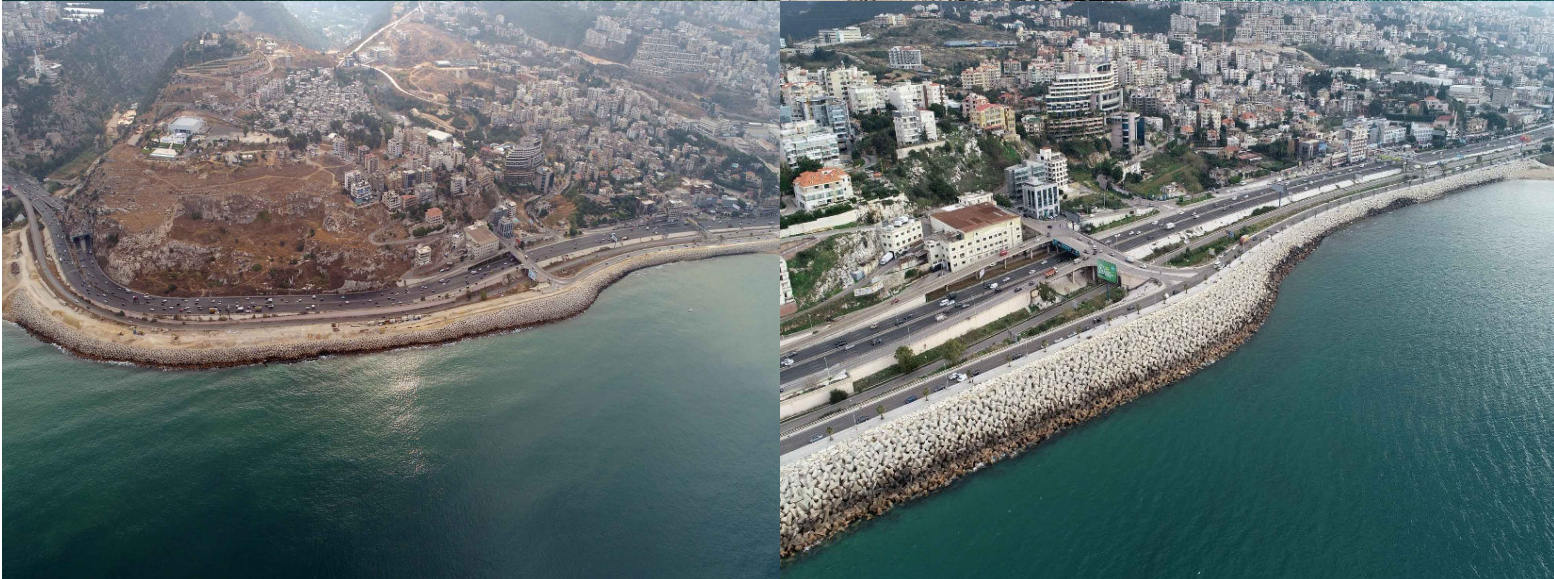
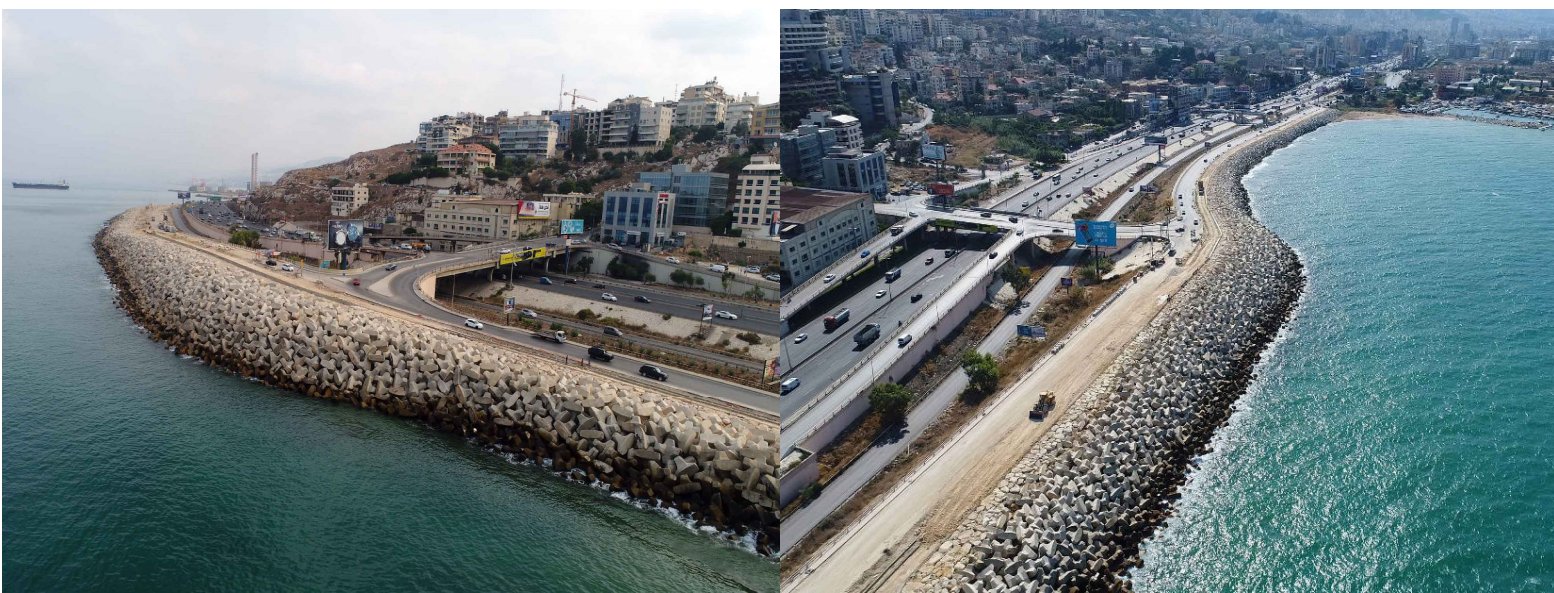
BYBLOS BEACH VILLAGE





DBAYEH WATERFRONT





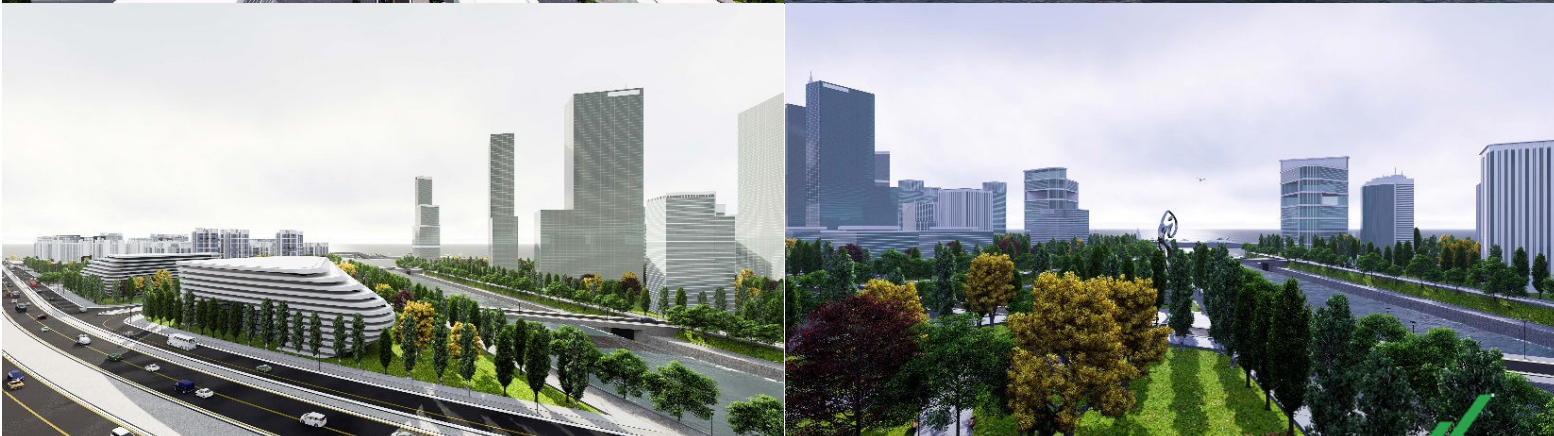
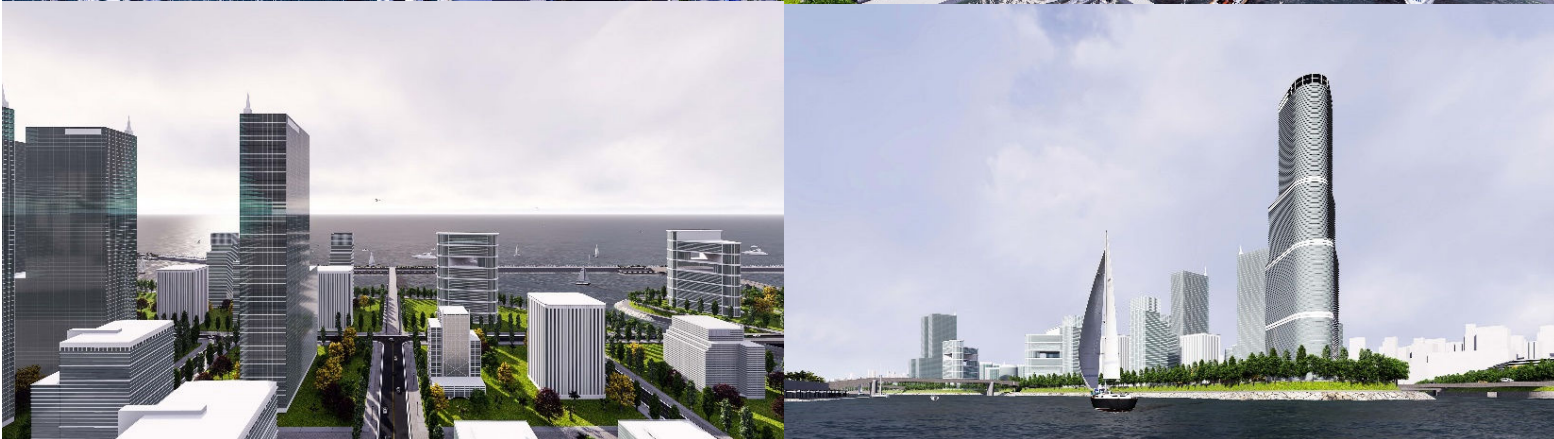
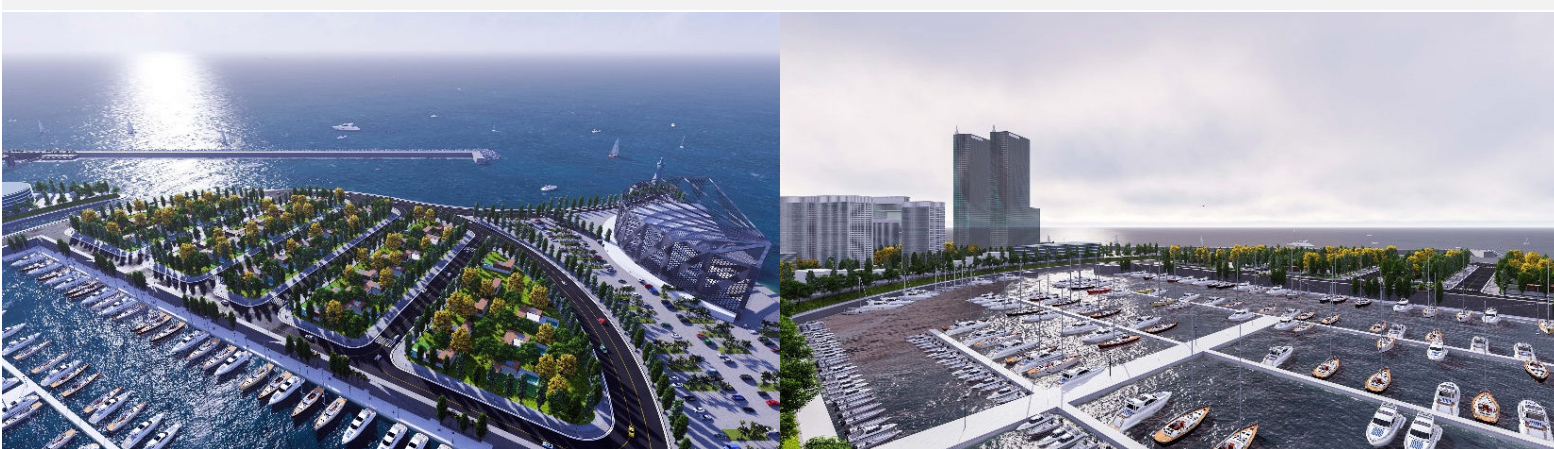
DBAYEH WATERFRONT



WATERFRONTS



SARAYA AQABA



LINOR WATERFRONT



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THE END

LEBANON

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