



# COMPANY PROFILE 2025



The sea \_\_\_\_\_ our responsibility

## BEACHES

[www.seatec-sarl.com](http://www.seatec-sarl.com)

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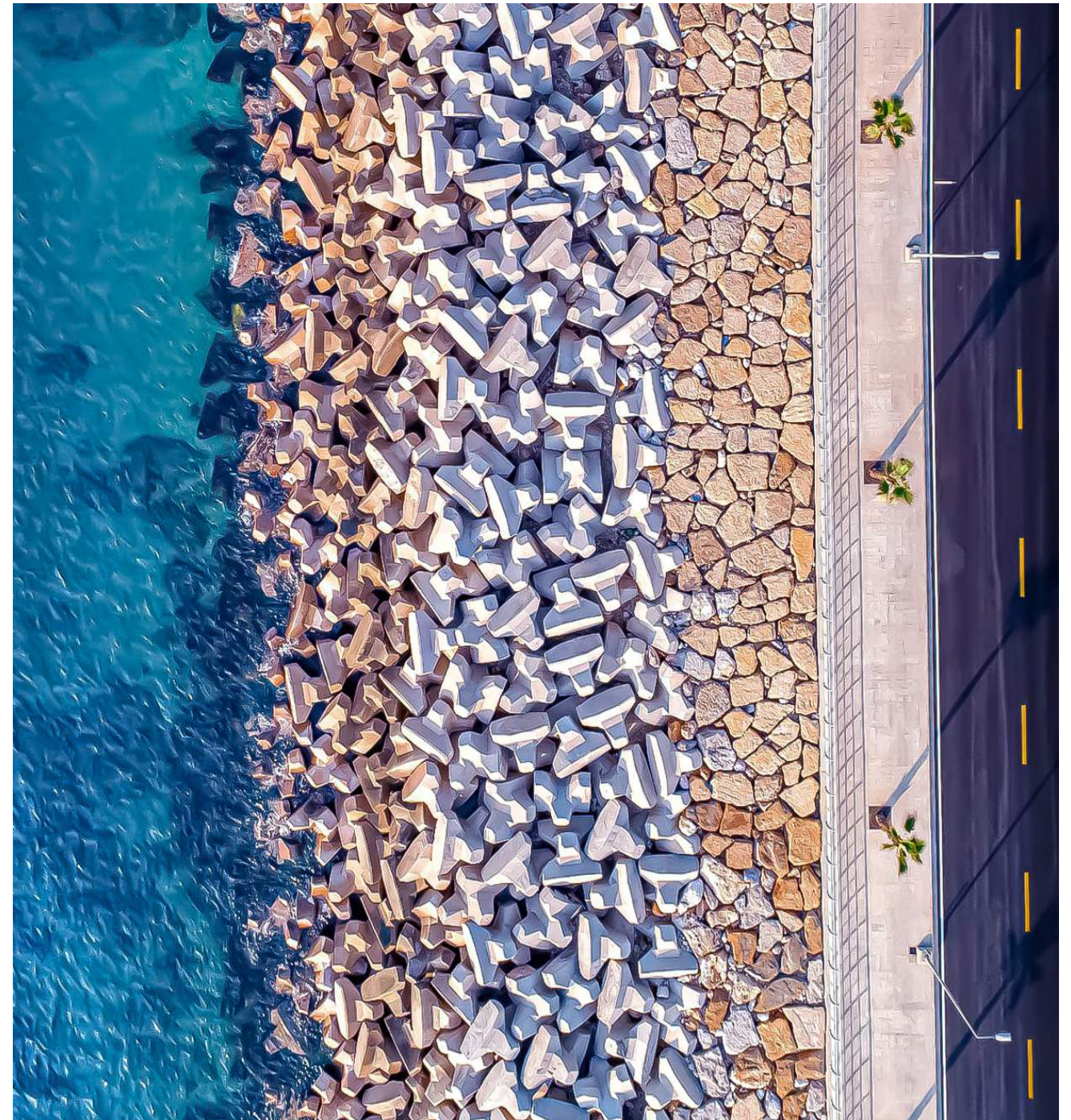
Press on Links to navigate to page

## SEATEC

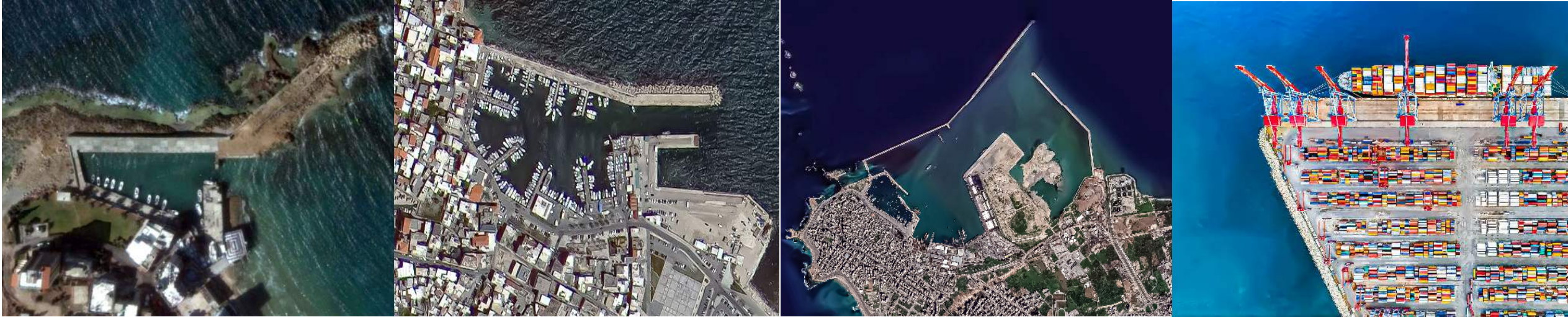
provides its clients with design and supervision services in coastal and port engineering, covering surveying, site investigation, master planning, numerical modeling, tender and detailed design, feasibility and EIA studies, permitting, construction planning, management and supervision.

Serving public as well as private sectors since 2000, SEATEC sarl is dedicated to give its clients the best engineering assistance.

SEATEC sarl operates in the EU territory through its subsidiary in Cyprus, S. SEATEC (Cyprus) Ltd.



# COMPANY HISTORY



# PROJECTS LOCATION



Countries <span style="color: red;">●</span>	
<b>Middle East</b>	<b>AFRICA</b>
Lebanon	Egypt
Jordan	Libya
Syria	Tunis
<b>GULF</b>	Algeria
UAE	Djibouti
KSA	Ivory Coast
Qatar	Cameroon
Oman	Nigeria
<b>ASIA</b>	<b>EUROPE</b>
India	Cyprus

## HEAD OFFICE

### SEATEC sarl

Beaini Center, 1st floor, Down Town,  
31 Ernest Renan St.,  
PC 4504 Byblos, LEBANON

Ph : +961 9 55 00 22  
Fax : +961 9 55 00 44  
Mob : +961 3 29 10 30  
Web : [www.seatec-sarl.com](http://www.seatec-sarl.com)  
E-mail : [seatec@seatec-sarl.com](mailto:seatec@seatec-sarl.com)

## SUBSIDIARY OFFICE

### S. SEATEC (CYPRUS) ltd

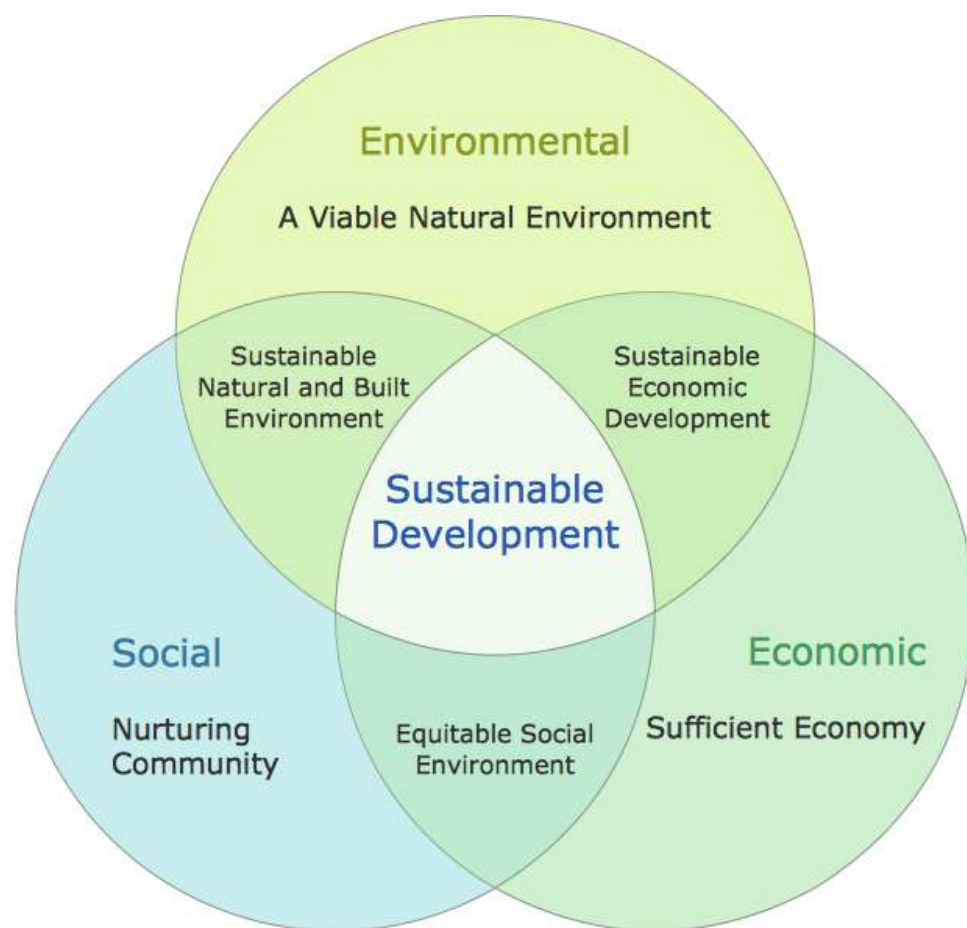
Michail Olympiou, 26 Dali,  
2540 Nicosia, CYPRUS



## VISION 01

### SUSTAINABLE ENGINEERING SOLUTIONS

*“Leading the way in creating sustainable and resilient engineering solutions that harmonize with nature and withstand the test of time”*



## VISION 02

### ECO-FRIENDLY AND GREEN PRACTICES

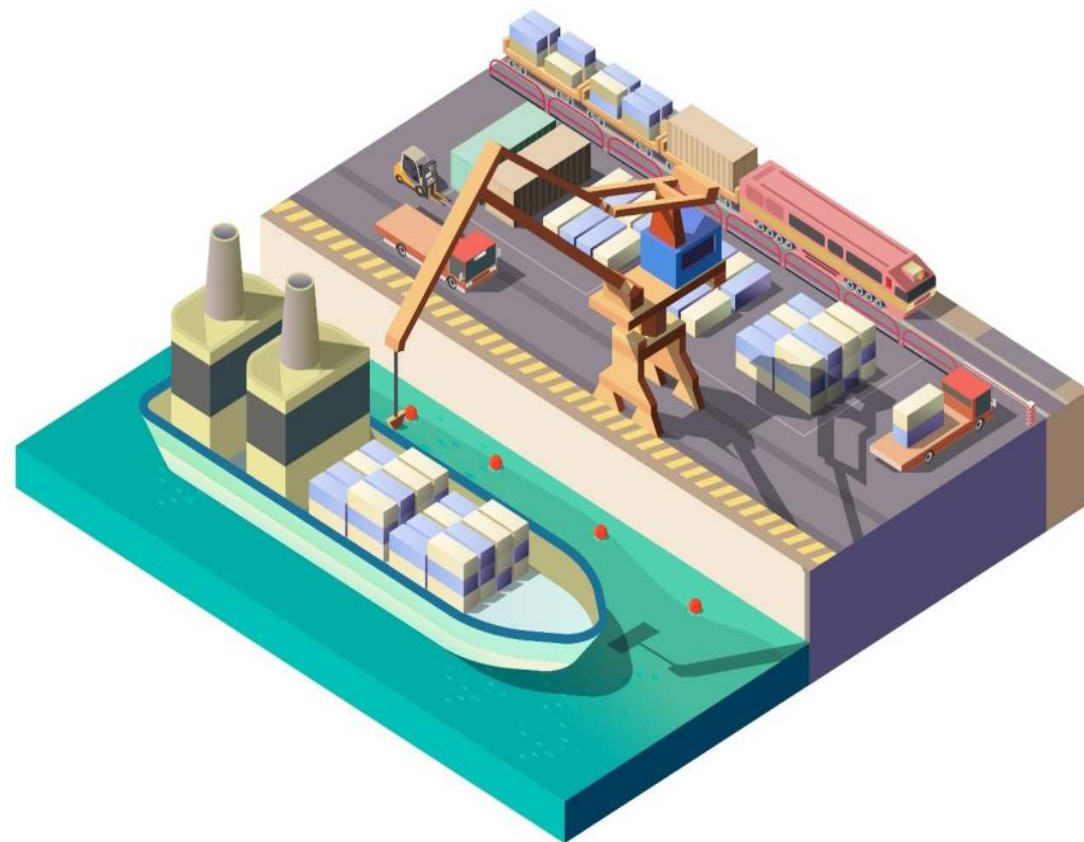
*“Pioneering eco-friendly and green solutions that preserve coastlines and promote a sustainable future for generations to come”*



## VISION 03

### SMART PORTS

*"Transforming ports into smart, efficient, and interconnected hubs that drive global trade and economic growth".*



## VISION 04

### INNOVATIVE COASTAL DEVELOPMENTS

*"Fostering innovative coastal developments that boost local economies and enhance the quality of life for coastal communities".*



## INTRO

### SERVICES

SEATEC sarl ([www.seatec-sarl.com](http://www.seatec-sarl.com)) is a multi-disciplinary engineering company, operating since 2000, mainly specialized in the design and supervision of coastal and ports projects, covering :

- Ports: commercial, cruise, marinas, fishing, industrial, naval bases...
- Specialized Terminals: Containers, general cargo, bulk, Agri bulk, oil and gas...
- Urban Waterfronts developments
- Coastal protections
- Dredging and reclamation works
- Beaches (protection and artificial nourishment)
- Offshore pipelines (outfalls, intake pipes...)
- Mooring structures, ship lifts
- Marine infra (Breakwaters, quay walls, platforms, slipways...)



## SERVICES

SEATEC offers a range of services through an experienced team in coastal and port engineering field :

- Site selection and evaluation
- Topographic and bathymetric survey
- Underwater inspection
- Rehabilitation of existing infrastructure
- Development of new infrastructure and facilities
- Master planning (future development) and phasing
- 3D presentations (views and videos)
- Feasibility studies
- Design optimization
- Design review /value engineering
- Preliminary and detailed design
- Execution drawings
- Numerical modelling
- Environmental Impact Assessment (EIA) studies
- Permitting and consents from relevant public authorities
- Tender documents
- Assistance to clients in selection of contractors



## SERVICES

- Supervision services, management and supervision of construction sites in accordance with health and safety guidelines, through an experienced team of site engineers, supervisors, surveyors and divers
- Supervising contractors, subcontractors and work activities
- Compliance of executed works with the relevant building regulations, quality standards
- Construction permit and with the specified technical documentation and guidelines
- Issuing of information and instructions on behalf of the client
- Validate of contractor's payments
- Hazards and risks assessment and Prevention of construction errors
- Carrying out regular inspections and raising safety concerns at the appropriate level
- Keeping construction on schedule, construction errors
- Completing records for site reports
- Resolving problems and implementing improvements
- Works handing over certificate



## OUR TEAM

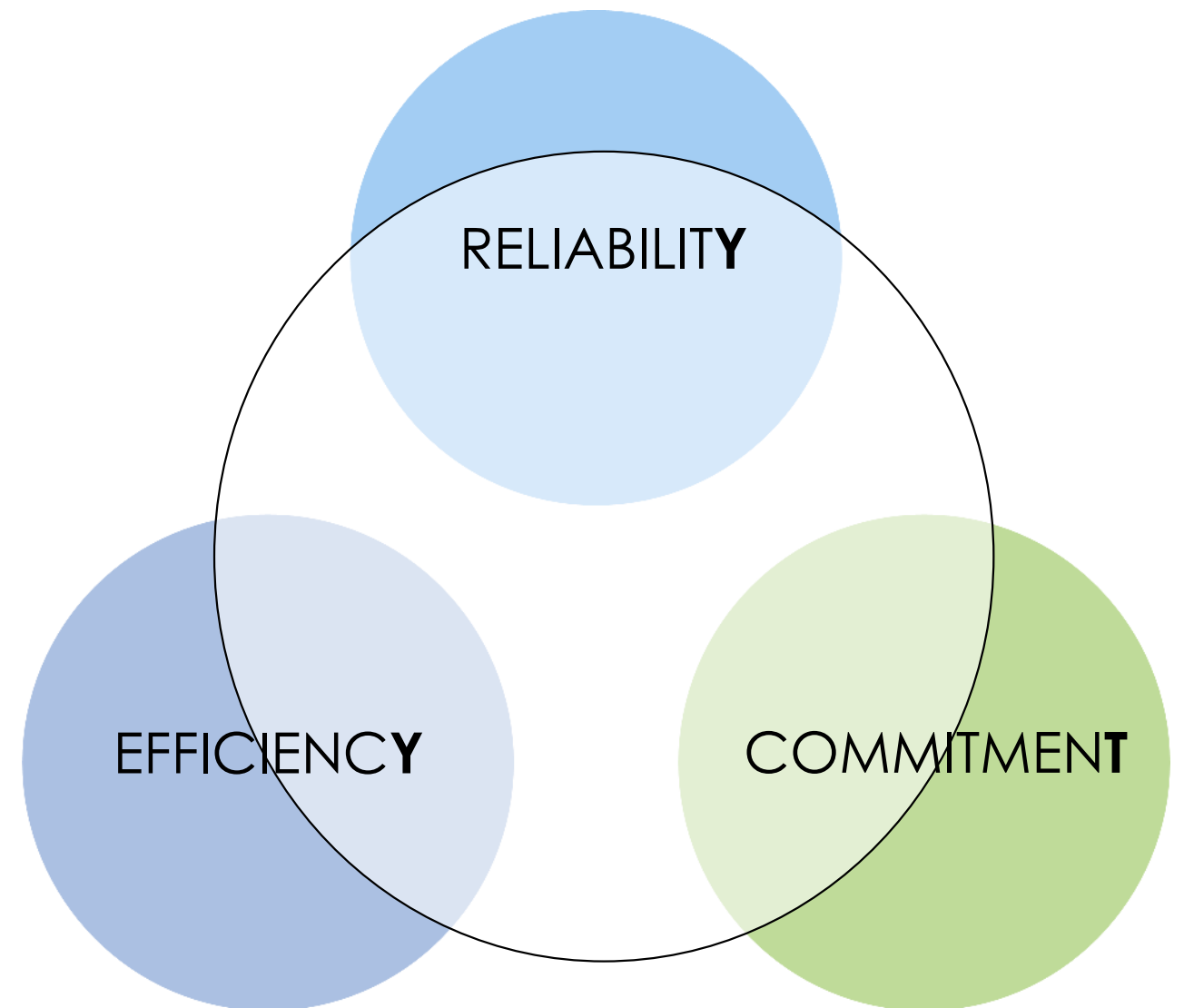
SEATEC have an experienced Team for in house design, covering all coastal and ports engineering aspects, geotechnical analysis, numerical modeling, works supervision..., keeping an excellent cooperation with leading European maritime and hydraulic laboratories for 2D/3D physical modeling.

A strong team spirit with the Client will be essential, working as part of a single entity rather than as competent individuals.

The team of experts is mostly composed of people involved in our recent projects, carefully selected for their:

- Experience in the field of expertise
- Efficiency
- Experience in working with each other
- Ability to advise both public and private Clients

Moreover, SEATEC can mobilize on short notice its technical resources when and where such expertise is needed.



## OUR NUMBERS



SINCE  
**2000**



COUNTRIES  
**+16**



CLIENTS  
**+50**



PROJECTS  
**+450**

## BEACHES



# AL JISR RESORT

**Client** Al Jisr general trading, tourism & contracting sarl

**Location** LEBANON – Damour  
33°42'06"N  
35°26'19"E

**Consultant** SEATEC sarl

## Al Jisr resort

**Year** 2024  
Permitting

- Decree Drawing for Maritime Domain Occupancy / Permitting



*Beaches / Permitting*

# NANAYA BEACH

**Client** Naoura Real Estate Co. sal

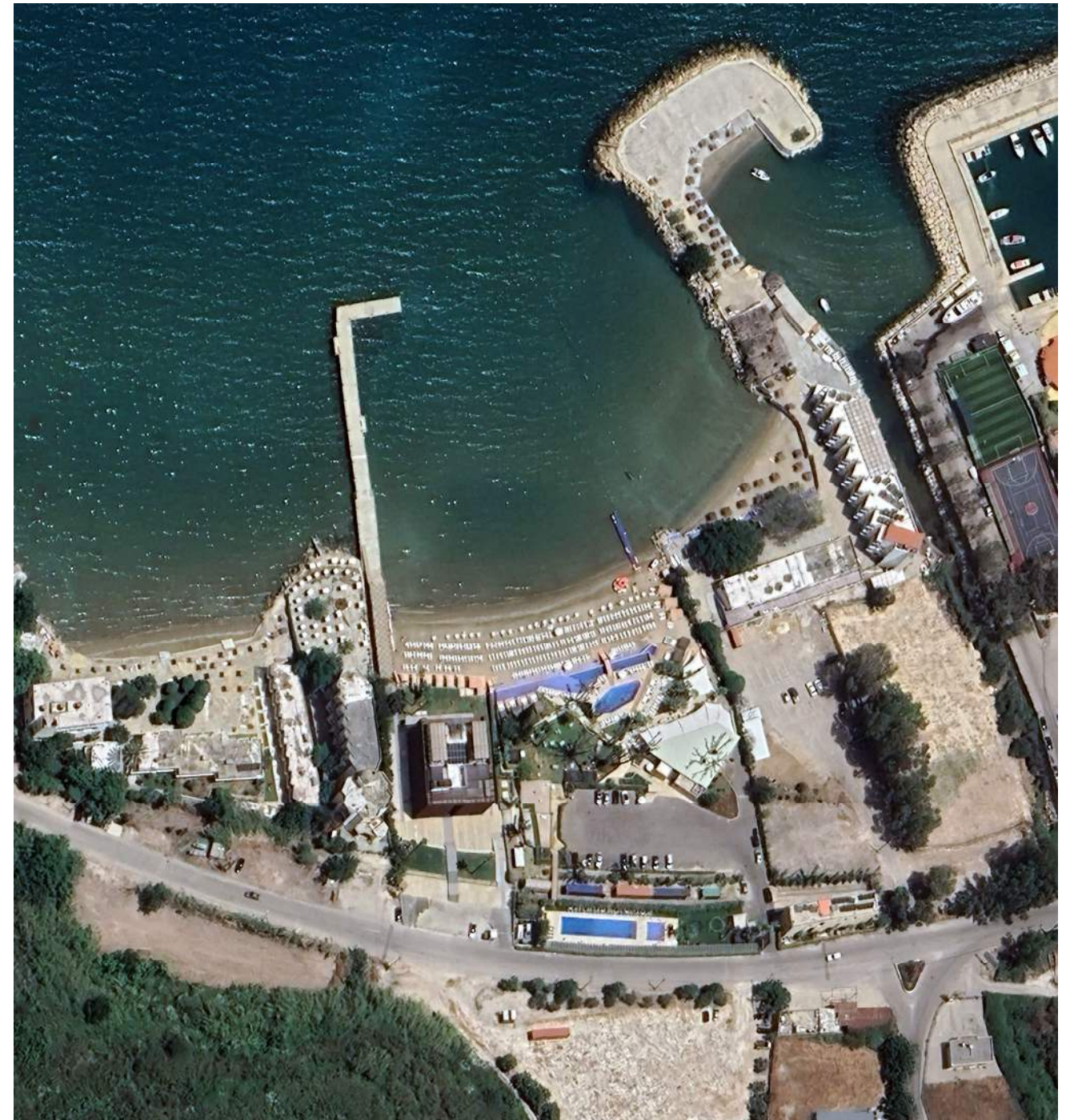
**Location** LEBANON – Hery  
34°18'17"N  
35°42'15"E

**Consultant** SEATEC sarl

## Nanaya Beach

**Year** 2024  
Permitting

- Decree Drawing for Maritime Domain Occupancy / Permitting



*Beaches / Permitting*

**Client** COLOMBA  
**Location** LEBANON – Halat  
34°05'05" N  
35°58'54" E  
**Consultant** SEATEC sarl

## Colomba Marina

**Year** 2024  
Design / Surveying / Permitting

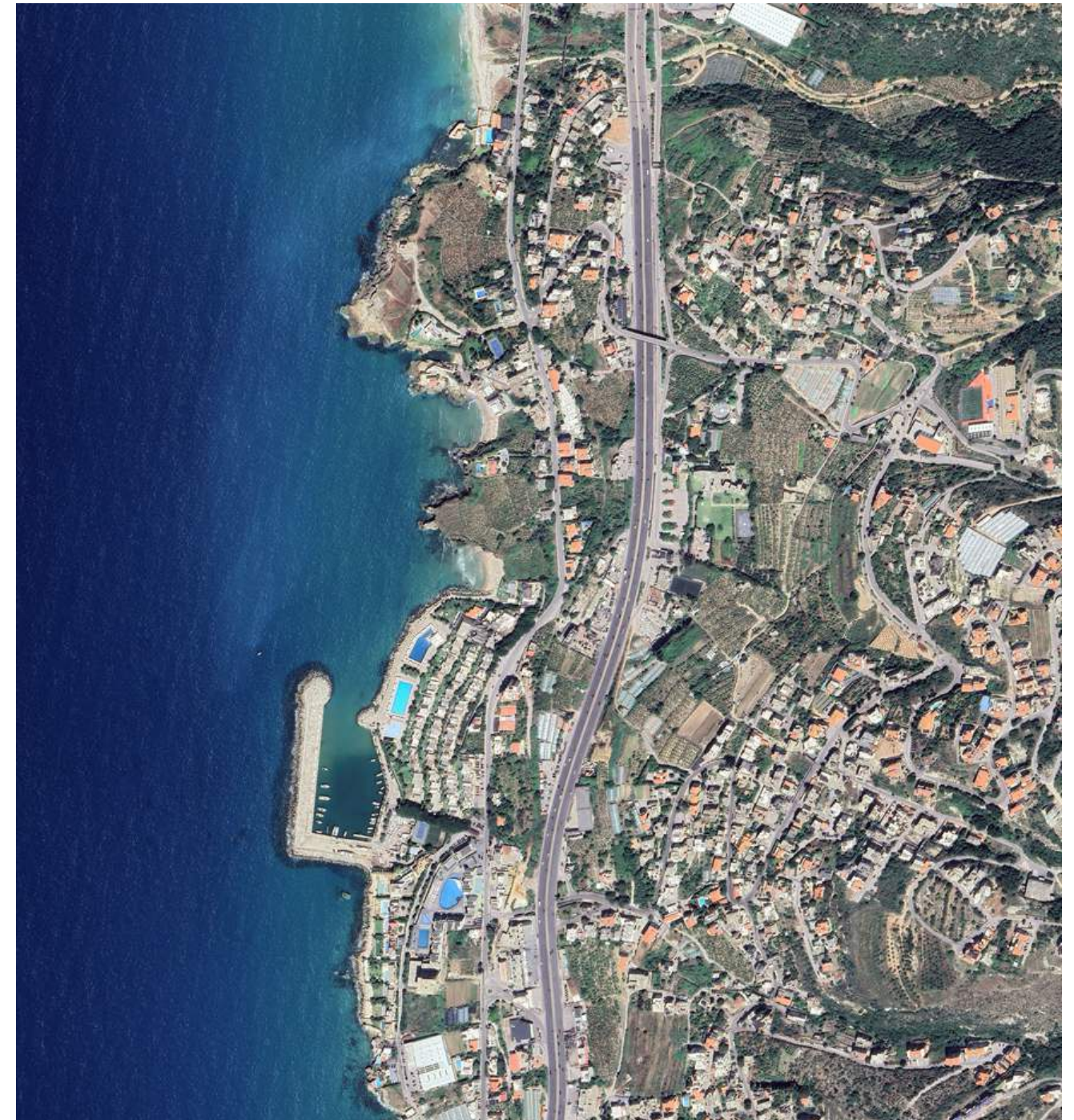
- Marina Master Plan
- Berthing capacity (72 yachts)
- Main Breakwater (Rubble mound type, L=155m @max -7.00m MSL, core material, rocky filter and precast concrete Accropodes blocks)
- Secondary Breakwater (Vertical concrete wall, L=22m @max -4.00m MSL)
- RC Crown walls
- Quaywalls (L=218m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=57m @-4.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Pier (L=50m @-3.00m MSL, Nbr 1) / Precast concrete elements



Ports / Surveying / Marinas / **Beaches**

## Colomba Marina

- RC Platforms (4,850m<sup>2</sup>)
- Landscape
- Swimming area (protected bay)
- Marina master building, restaurants, offices, shops, recreational facilities...
- Fueling station
- Water body (9,230m<sup>2</sup>)
- Drawings / BoQ / Decree Drawing



Ports / Surveying / Marinas / **Beaches**

# SARAYA AQABA BEACH NOURISHMENT

18

**Client** Consolidated Contractors Company (CCC)

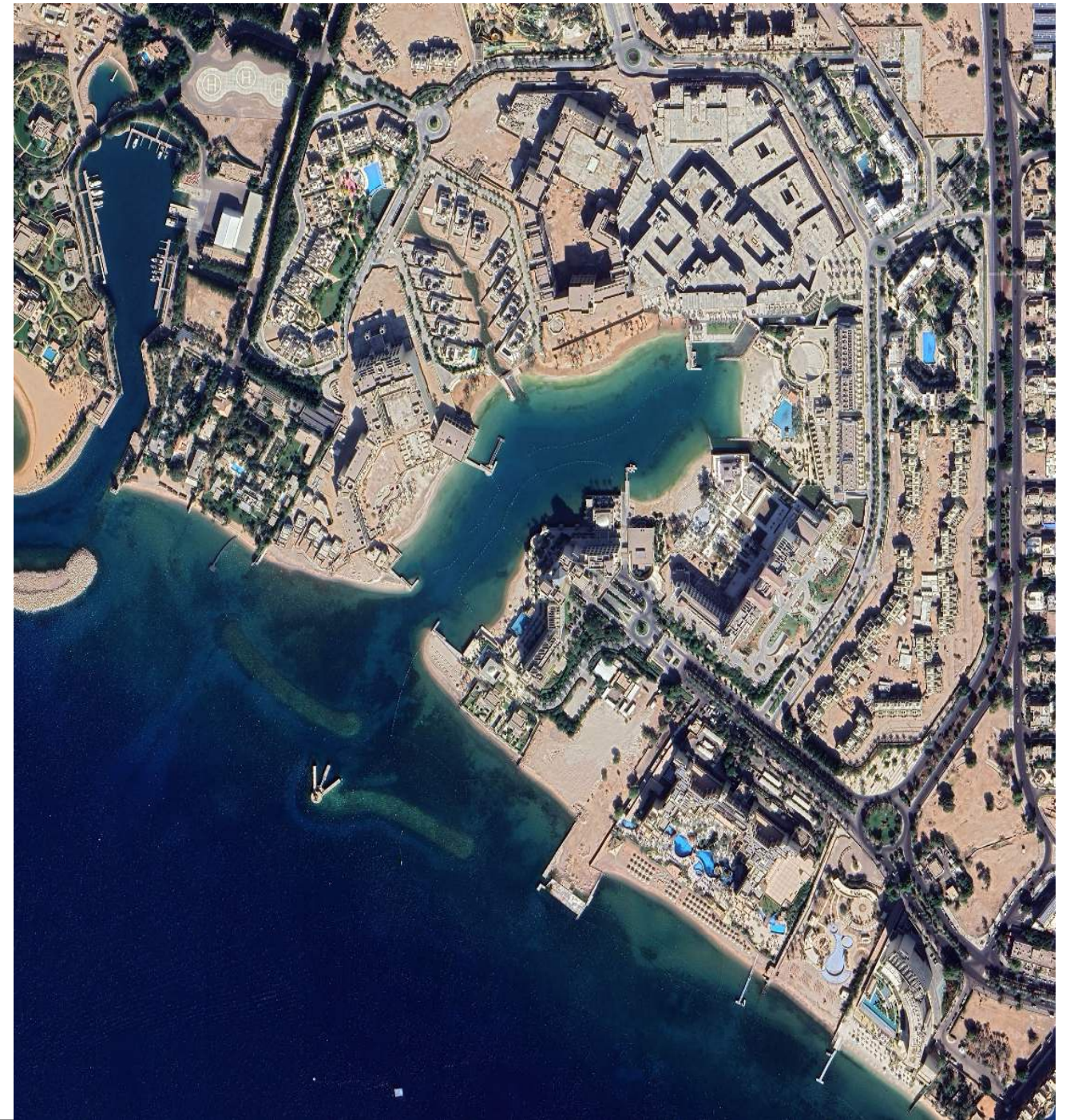
**Location** JORDAN – Aqaba  
29°32'6" N  
34°59'26" E

**Consultant** SEATEC sarl

## Saraya Aqaba beach nourishment

**Year** 2022 – 2023  
Design review

- Review of recent surveying data of all beaches
- Determining the extent of required sand nourishment of above-mentioned beaches
- Design of beach management structures (Rocky / geotubes groynes)
- Drawings / BoQ / Reporting



*Waterfronts / Coastal Protections / Revetments / Beaches*

**Client** RCM Green Steps Global (CY) Ltd / RCMGSG

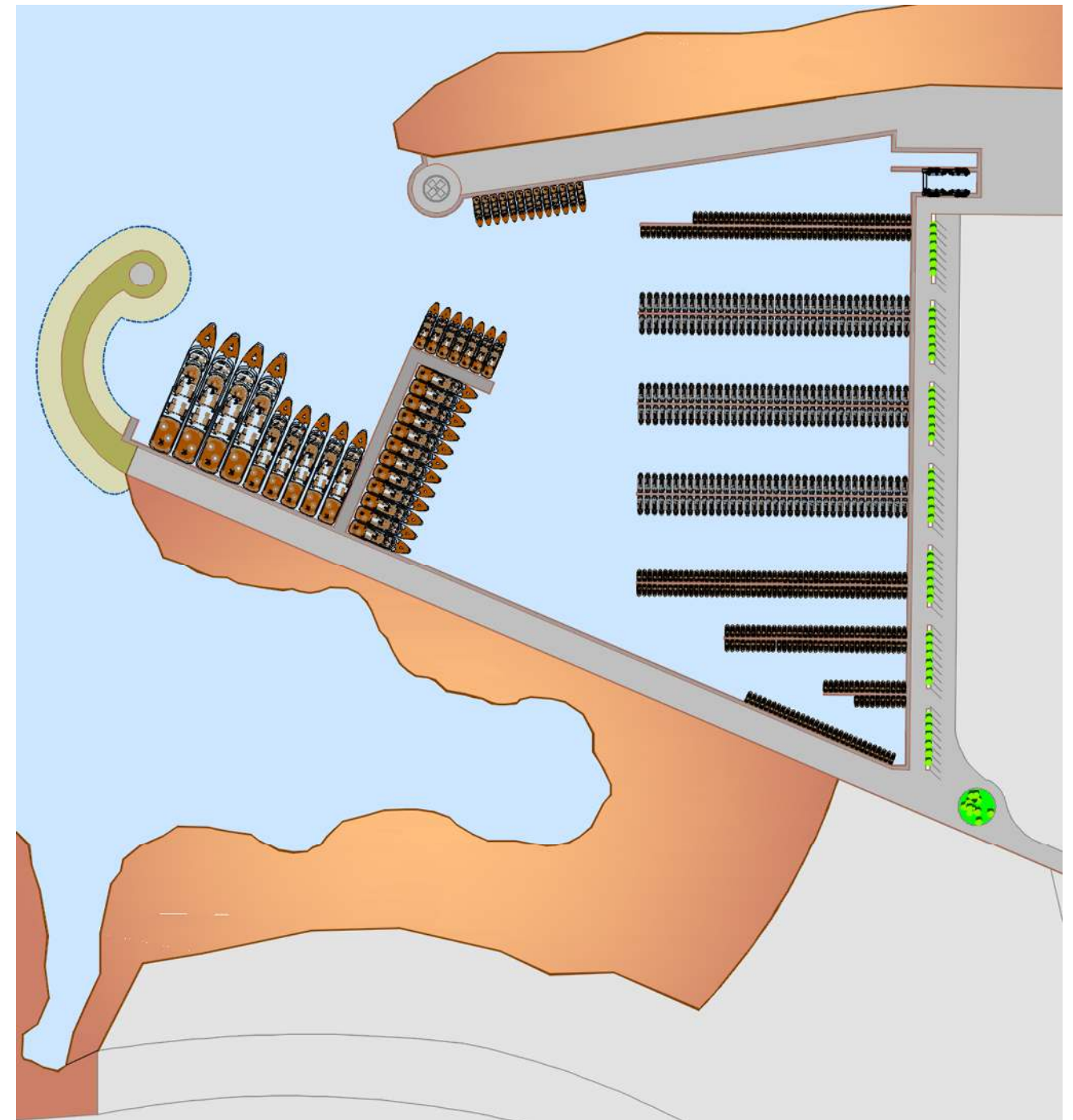
**Location** MONTENEGRO

**Consultant** SEATEC sarl

## Montenegro Development

**Year** 2020  
Conceptual Design

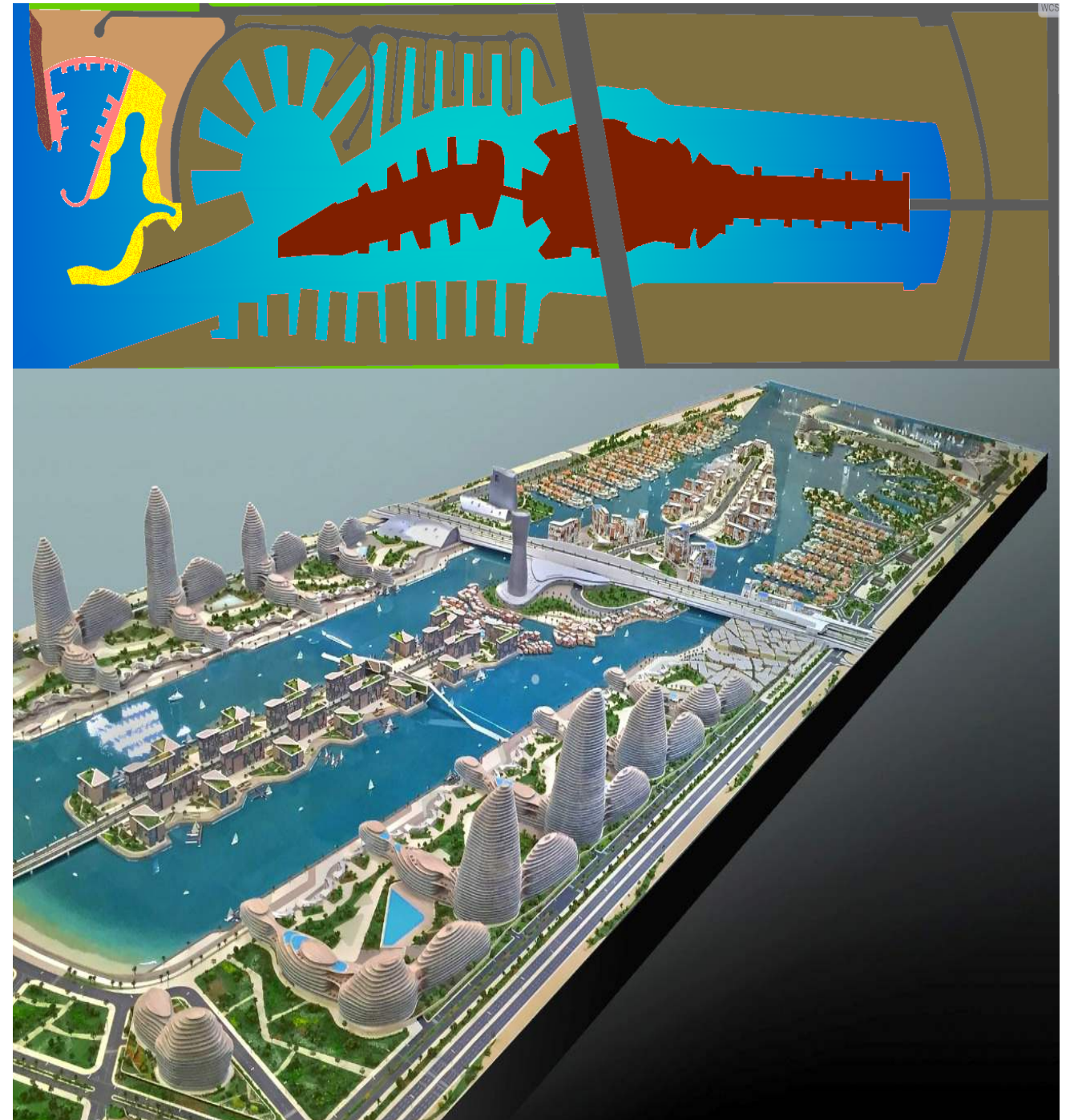
- Marina Master Plan
- Berthing capacity (630 yachts / 10 mega yachts LOA>100m)
- Main Breakwater (Rubble mound type, L=330m, core material, rocky filter and precast concrete Accropodes blocks)
- Secondary breakwater (Excavation / dredging procedures)
- Quaywalls (L=2,900m @-3.00m, -4.50m and -8.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=1,560m, Nbr 7) / Precast concrete elements
- Basin and access channel dredging
- Hoist / slipway



Ports / Marinas / **Beaches** / Lift Structures / slipways / Hoists / Dredging

## Montenegro Development

- Artificial recreational beach (L=1,200m, swimming area 88,000m<sup>2</sup>)
- Reclaimed RC and asphalted platforms (100,800m<sup>2</sup>)
- Water body (310,000m<sup>2</sup>)
- Drawings



Ports / Marinas / **Beaches** / Lift Structures / slipways / Hoists / Dredging

# MARASSI NORTH BEACH

**Client** HOMAN GROUP (Contractor)  
EMARR (Owner)

**Location** EGYPT – Marsa Matruh / Sidi Abed Rahman  
30°59'03" N  
28°44'55" E

**Consultant** SEATEC sarl

## Marassi North Beach

**Year** 2020 – 2021  
Design / Contractor technical assistance during execution

- Sandy beach artificial nourishment and protection works along ~ 1600m of shoreline
- Groyne N1/2 (Rubble mound type, core material, rocky filter and armor layers)
- Groyne N3 (Rubble mound type, core material, rocky filter and Core-loc precast concrete blocks armour layers)
- Submerged / detached geotubes for the protection of the newly artificial sandy nourished beach
- Dredging works
- Assessment of swimming safety and beach downtime period
- Specifications / Drawings / BoQ

Coastal Protections / Revetments / **Beaches** / Permitting



**Client** LEBANESE REPUBLIC  
Ministry of Public Works and Transport  
Directorate General of Roads and Buildings

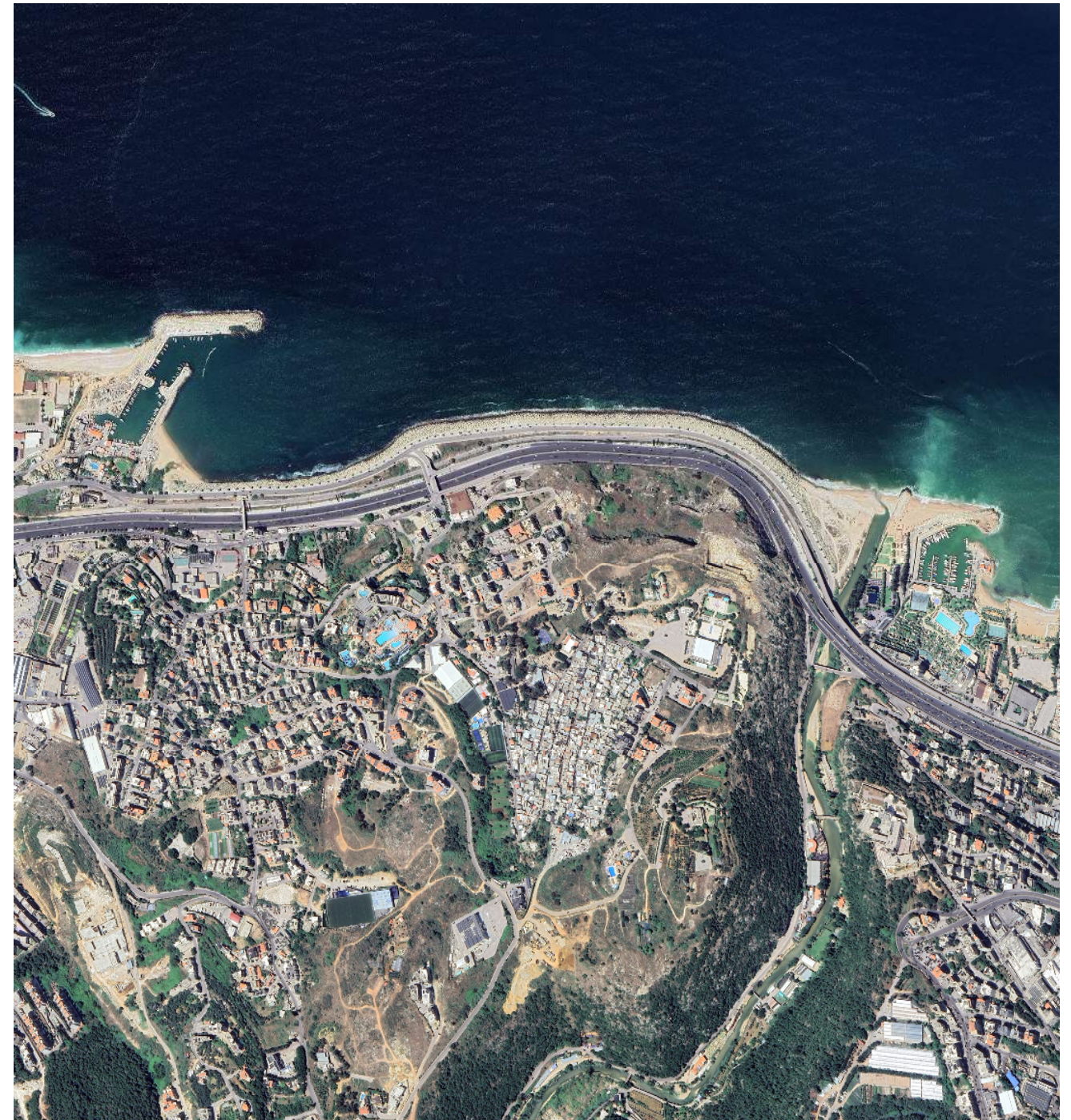
**Location** LEBANON – Dbayeh  
33°57'10" N  
35°35'32" E

**Consultant** SEATEC sarl

## Dbayeh waterfront – Phase 2

**Year** 2019  
Design / Surveying

- New walkway along the existing waterfront / inner side (L~1,360m)
- Bicycle lanes
- Bicycle park
- Cars and bus parking
- Public spaces / gardens
- RC bleachers with sea view
- RC wall (delimitation of the highway)
- Infrastructure (Electrical supply, pipes, manholes, lighting poles, CCTV)
- Infrastructure (Water supply, manholes)
- Landscaping (Plantation, benches, waste containers...)

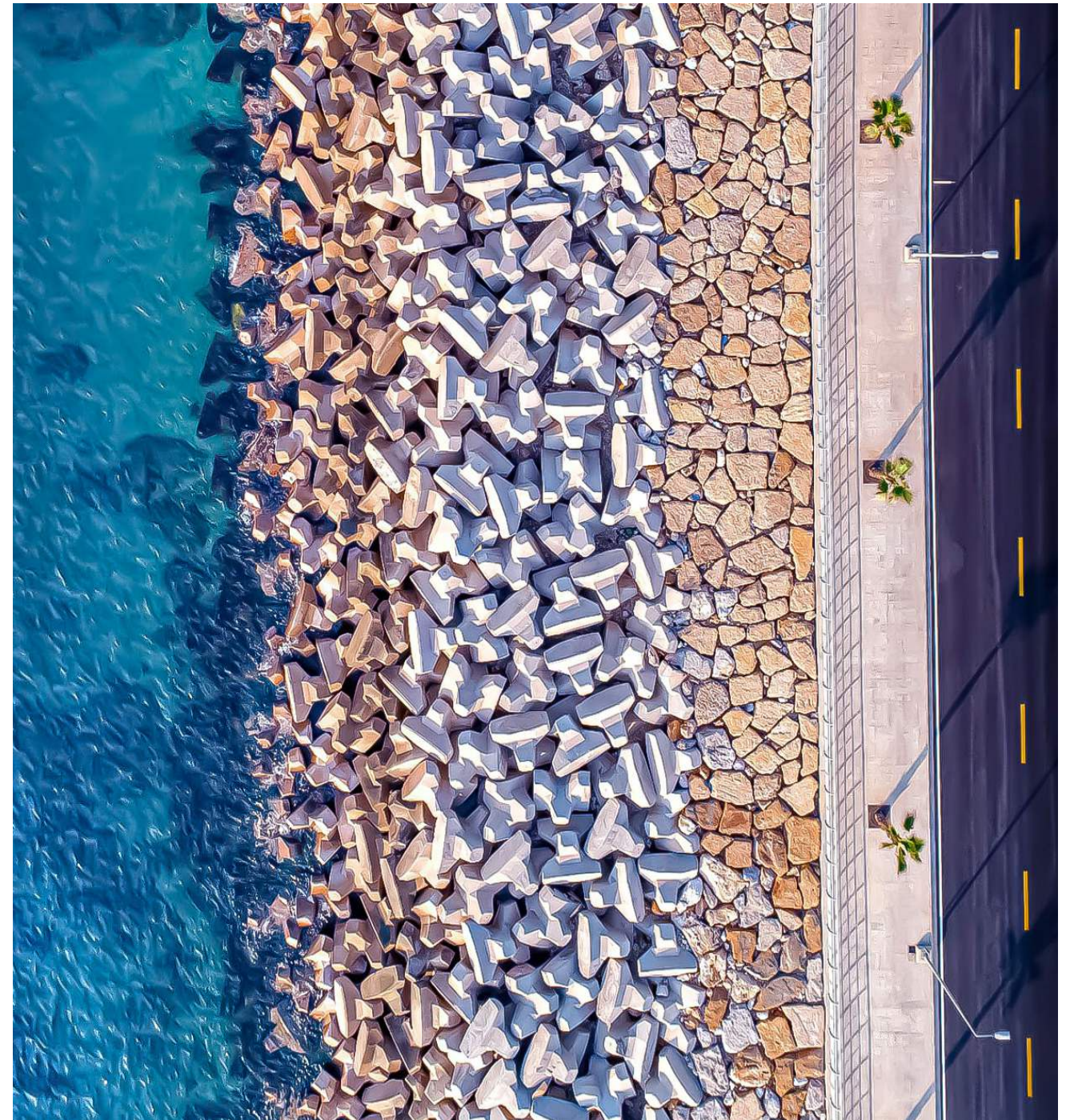


*Waterfronts / Coastal Protections / Revetments / **Beaches** / Surveying*

## Dbayeh waterfront – Phase 2

Year 2019

- Kiosks, WC, electrical, control and ticketing rooms
- Bituminous coating / marking of coastal road (L~1,650m)
- Excavation works
- Rehabilitation works of the existing sandy beach (50,000m<sup>2</sup>) / leveling, sand nourishment
- Coastal rocky protection of the inner river bank (Nahr el Kalb)
- Dredging of the river bed sediments
- Topographic survey (70,000m<sup>2</sup>)
- Tender Documents / Specifications / Drawings / BoQ



Waterfronts / Coastal Protections / Revetments / **Beaches** / Surveying

# KYE MARINA (1/2)

24

**Client** Lebanon West Coast sal

**Location** LEBANON - Wata salam  
34°01'44" N  
35°37'24" E

**Consultant** SEATEC sarl

## Kye Marina

**Year** 2019 – 2020 – 2021  
Design / Surveying / Permitting

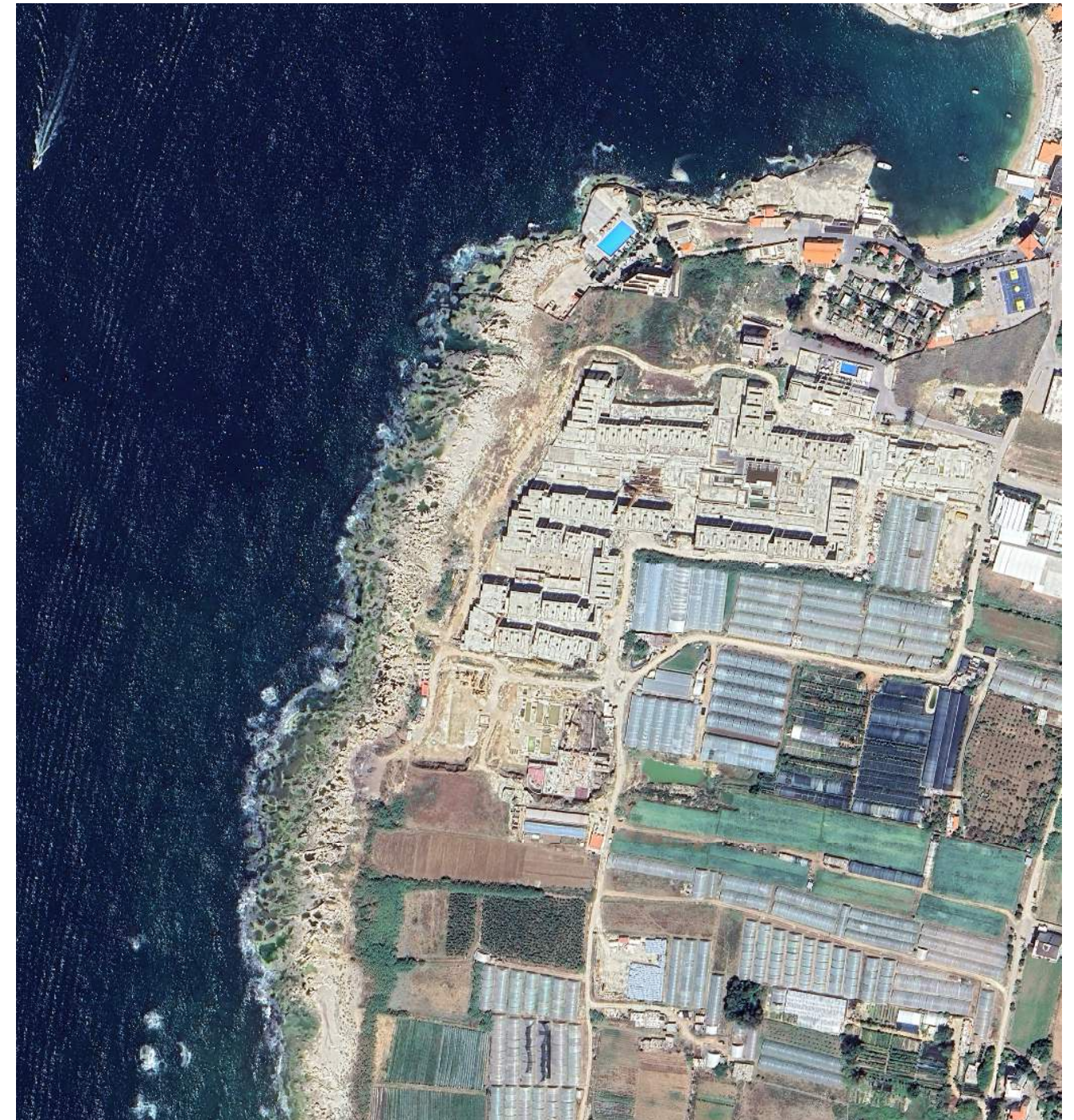
- Marina Master Plan
- Berthing capacity (200 yachts)
- Main Breakwater (L=207m @max -5.00m, vertical underwater concrete and curved seawall / Rubble mound type, L=140m @max -15.00m, core material, rocky filter and precast concrete Accropodes blocks Type II)
- Secondary Breakwater (L=78m @max -8.00m, vertical underwater concrete and curved seawall / Rubble mound type, L=172m, core material, rocky filter and precast concrete Accropodes blocks Type II)
- Dredging for breakwater toe
- RC crown walls

Ports / Surveying / Marinas / Coastal Protections / Seawalls / **Beaches** / Lift Structures / Slipways / Permitting



## Kye Marina

- Quaywalls (L=566m) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=270m, Nbr 4) / Precast concrete elements
- Asphalted and concrete platforms
- Slipway
- Accessories (Bollards, fenders, lighting, water supply, fuel station...)
- Artificial sandy beach nourishment (swimming area 7,000m<sup>2</sup>)
- Topographic survey
- Bathymetric survey (95,000m<sup>2</sup>)
- Drawings / BoQ
- Permitting / Decree drawing



Ports / Surveying / Marinas / Coastal Protections / Seawalls / **Beaches** / Lift Structures / Slipways / Permitting

# HRAYCHE WATERFRONT

26

**Client** PALMA BEACH RESORT

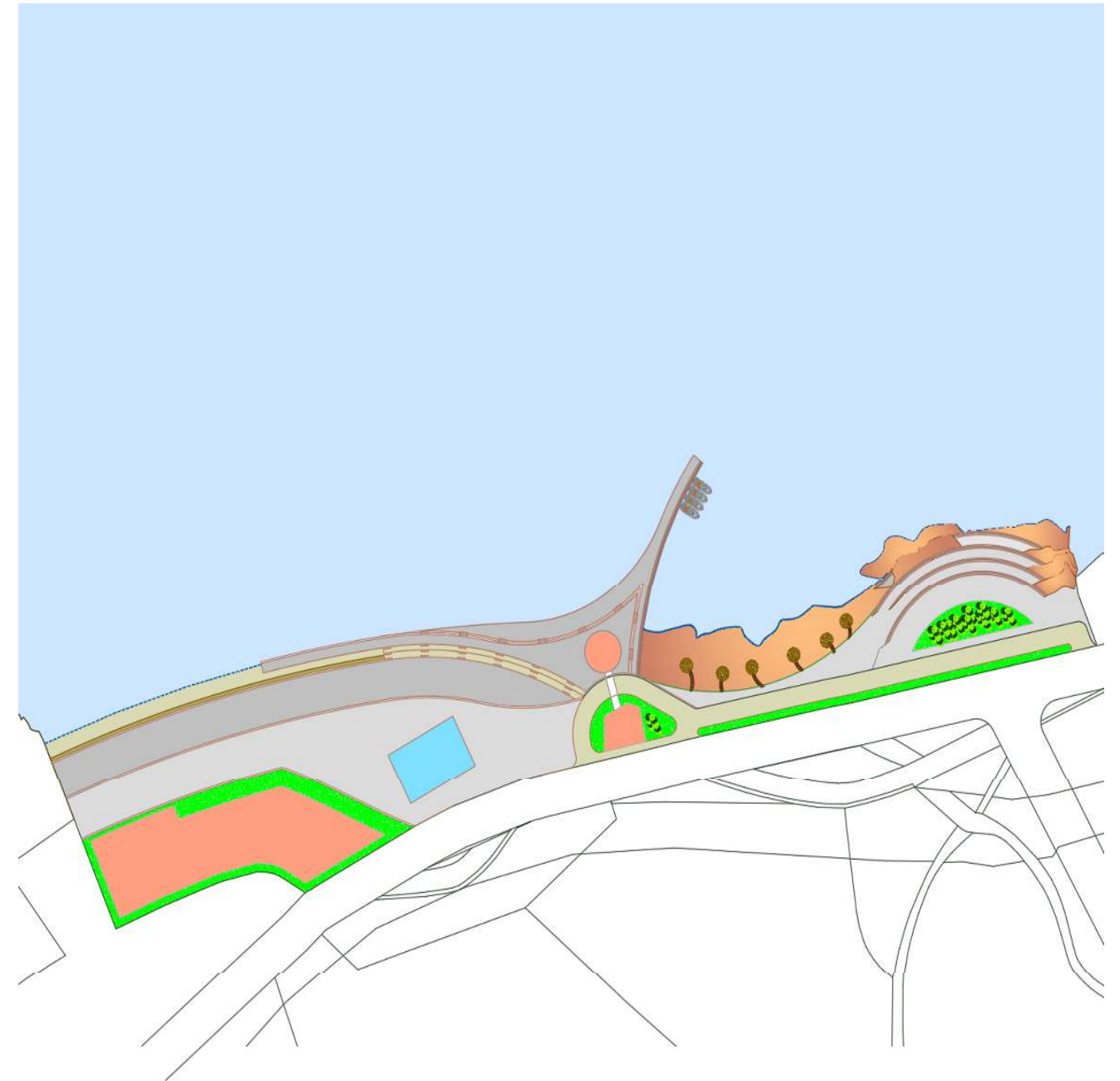
**Location** LEBANON - Hrayche  
34°22'51" N  
35°45'52" E

**Consultant** SEATEC sarl

## Hrayche Waterfront

**Year** 2019 – 2020 – 2021 – 2022  
Design / Surveying / Permitting

- Waterfront and beach development
- Main vertical concrete breakwater (L=64m) @max -3.00m MSL
- Mix of sloped rocky and vertical concrete sea wall protection of the reclaimed area (L=250m)
- Reclaimed area (11,250m<sup>2</sup>)
- Swimming pools, beach bar, restaurants
- Sandy beach (L=120m of shoreline)
- Berthing capacity (4 small motor boats)
- Topographic survey (54,000m<sup>2</sup>)
- Bathymetric survey (136,000m<sup>2</sup>)
- Drawings / BoQ
- Permitting



Ports / Surveying / Marinas / Coastal Protections / Revetments / Seawalls /  
**Beaches** / Permitting

**Client** HIBA REAL ESTATE  
**Location** LEBANON - Hrayche  
33°45'16" N  
35°27'14" E  
**Consultant** SEATEC sarl

## Marina 576

**Year** 2011 – 2012  
Conceptual Design

**Year** 2018  
Design / Surveying / Permitting

- Marina Master Plan
- Berthing capacity (210 yachts)
- Main Breakwater (Rubble mound type, L=377m @max - 7.00m, core material, rocky filter and 16m<sup>3</sup> concrete Accropodes blocks Type I)
- RC Crown walls
- Quaywalls (L=278m @-3.00m MSL) / Underwater concrete (Gravity QW)
- Quaywalls (L=152m @-4.50m MSL) / Underwater concrete (Gravity QW)

Ports / Surveying / Marinas / Coastal Protections / Seawalls / Lift Structures / Hoist / **Beaches** / Permitting



## Marina 576

- Quaywalls (L=163m @-6.00m MSL) / Underwater concrete (Gravity QW)
- Finger Piers (L=206m @-3.00m MSL, Nbr 2) / Precast concrete elements
- Finger Pier (L=108m @-4.50m MSL, Nbr 1) / Precast concrete elements
- Marine accessories (Mooring bollards, fenders)
- Hoist (Boats lift - 150T capacity)
- Access bridge
- Natural beach conservation / swimming area
- Land reclamation and bituminous / RC Platforms
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master, restaurants, offices, shops (2,900m<sup>2</sup>)
- Petrol station
- Reclaimed area (38,958m<sup>2</sup>)
- Water body (32,276m<sup>2</sup>)
- Topographic survey (36,400m<sup>2</sup>)
- Bathymetric survey (279,000m<sup>2</sup>)
- Specifications / Drawings / BoQ / Permitting

Ports / Surveying / Marinas / Coastal Protections / Seawalls / Lift Structures / Hoist / **Beaches** / Permitting



**Client** LEBANESE REPUBLIC  
Ministry of Public Works and Transport  
Directorate General of Land and Maritime  
Transport

**Location** LEBANON – Saida  
33°34'32" N  
35°22'50" E

**Consultant** SEATEC sarl

## Saida waterfront

**Year** 2018 – 2019  
Design / Surveying

- Waterfront length (2,355m) / erosion problems, flooding, dangerous currents for swimmers
- Master Plan (new waterfront)
- Artificial Beach nourishment and creation of 6 safe swimming areas
- Protection of the new sandy beach against erosion
- 2 T shapes groynes (L=304m @max -4.00m MSL / L=274m @max -4.00m MSL)
- 3 L shapes groynes (L=291m @max -3.00m MSL / L=260m @max -4.00m MSL / L=155m @max -2.50m MSL)
- 2 groynes (L=130m @max -3.50m MSL / L=60m @max -3.50m MSL)

*Waterfronts / Coastal Protections / Revetments / **Beaches** / Surveying*



## Saida waterfront

Year 2018 – 2019

- One detached breakwater (L=130m @max -2.50m MSL)
- All groynes include core QR, rocky filter and armour layers and RC crown walls for pedestrian access
- Underwater concrete protection (L=97.00m @max -4.00m in the outfall location)
- RC bleacher (L=1,250m) with sitting / direct access from the walkway to the beach
- Dredging works to supply necessary sand for the artificial nourishment of the beach
- 2 Public spaces (5,400m<sup>2</sup> / 5,200m<sup>2</sup>)
- New walkway
- Bicycle lane
- Landscaping and furniture (Benches, bins...)
- Water and electrical network
- Lighting
- Lifeguards and electrical room (42m<sup>2</sup>)
- Topographic survey (189,700m<sup>2</sup>)
- Bathymetric survey (3,440,000m<sup>2</sup>)
- Tender Documents / Specifications / Drawings / BoQ



Waterfronts / Coastal Protections / Revetments / **Beaches** / Surveying

# JOUNIEH WATERFRONT

31

**Client** LEBANESE REPUBLIC  
Ministry of Public Works and Transport  
Directorate General of Land and Maritime  
Transport

**Location** LEBANON – Jounieh  
33°59'43" N  
35°38'23" E

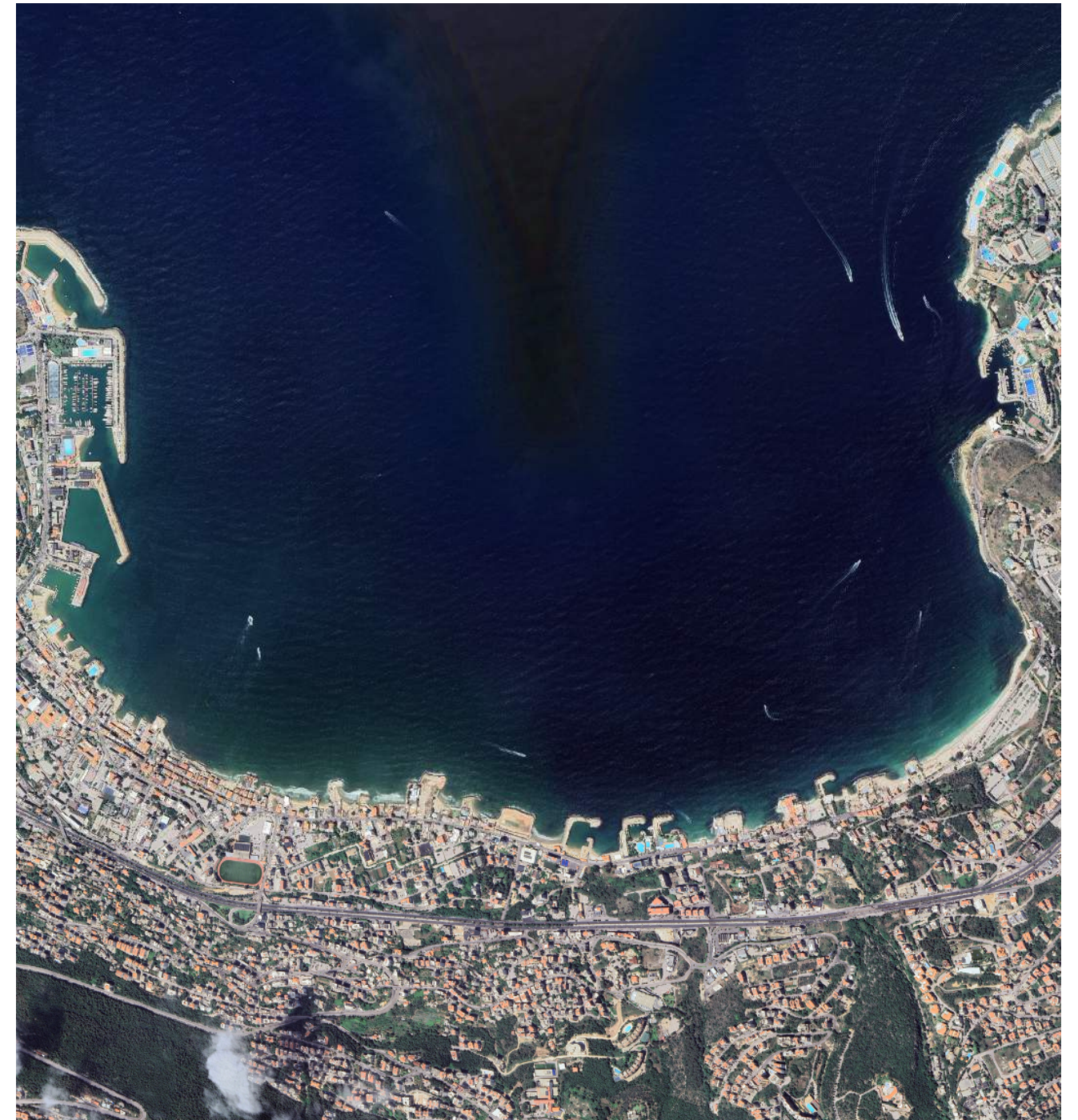
**Consultant** SEATEC sarl

## Jounieh Waterfront

**Year** 2018 – 2019 – 2020  
Conceptual Design / Surveying / Permitting

- Master Plan for Jounieh waterfront
- Southern fishing port (200 berths)
- Coastal walkway (L~4,000m)
- Nourished sandy beach (L~2,300m)
- Review of public maritime domain infringements
- Marina (360 berths)
- Public places and green areas
- Landscaping and recreational places
- Topographic survey (shoreline along 4,000m)
- Bathymetric survey (8,235,000m<sup>2</sup>)
- Drawings / Decree / Permitting

Ports / Surveying / Waterfronts / Marinas / Fishing Ports / Coastal Protections /  
Revetments / Seawalls / **Beaches** / Permitting



# AKKAR BEACH PROTECTION

32

**Client** LEBANESE REPUBLIC  
Ministry of Public Works and Transport  
Directorate General of Land and Maritime  
Transport

**Location** LEBANON – Akkar  
34°32'00"N  
35°59'16"E

**Consultant** SEATEC sarl

## Akkar beach coastal protection

**Year** 2016  
Conceptual Design

- Sandy beach evolution study / nourishment / stabilization along 3,700m of shoreline
- Coastal protection
- 30 detached low crested rocky breakwaters
- 6 fishtailed groynes
- Sand nourishment
- Specifications / Drawings / BoQ



*Coastal Protections / Revetments / Beaches*

**Client** LEBANESE REPUBLIC  
Ministry of Public Works and Transport  
Directorate General of Land and Maritime  
Transport

**Location** LEBANON – Tal Hayat  
34°34'03"N  
35°59'31"E

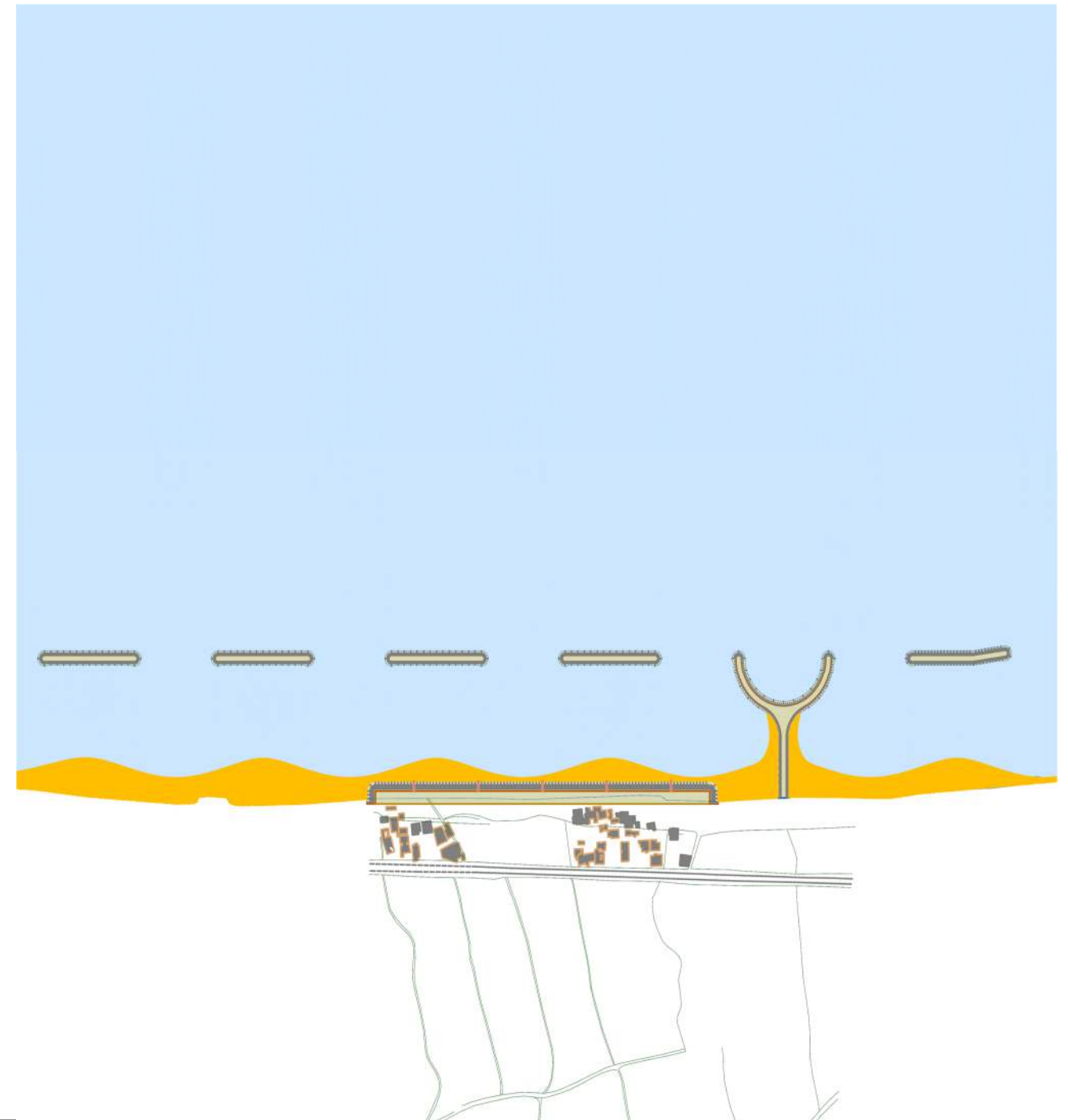
**Consultant** SEATEC sarl

## Tal Hayat coastal protection

**Year** 2016  
Design / Surveying

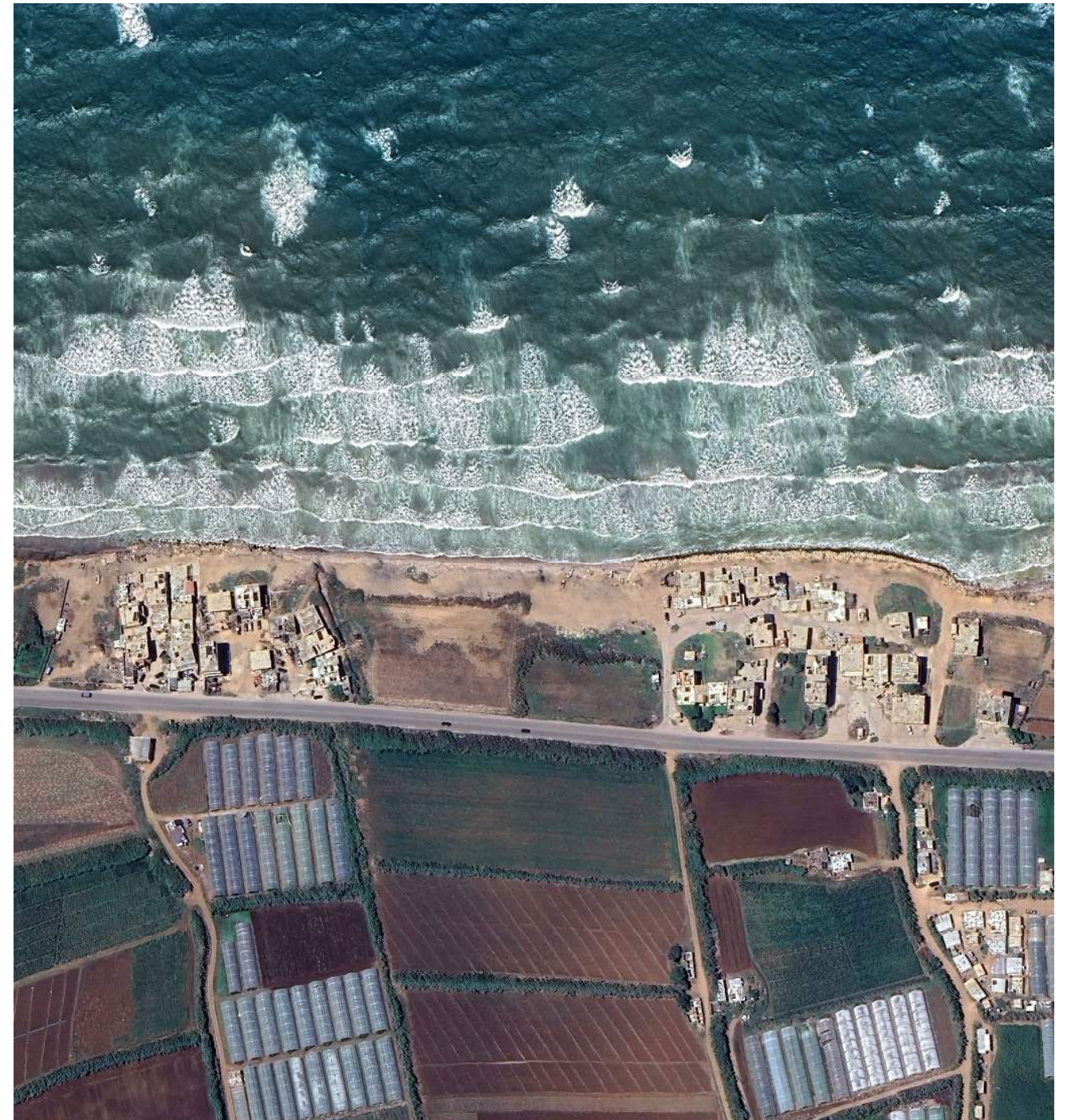
- Coastal protection of Tal Hayat village Waterfront against waves attack and flooding
- Existing sandy beach evolution study and stabilization / L~1500m of shoreline
- 3 Low crested detached breakwaters (Rubble mound type, L=140m @max -3.00m, core material, rocky filter and armor layer)
- 1 fish tail type groyne (Rubble mound type, L=216m @max -3.00m, core material, rocky filter and armor layer)
- Sloped rocky protection along shoreline (Rubble mound type, L=520m @max -1.50m, core material, rocky filter and armor layer)

*Coastal Protections / Revetments / **Beaches** / Surveying*



## Tal Hayat coastal protection

- Reclaimed platform (15,000m<sup>2</sup>)
- RC stairs
- Breakwater toe dredging @max -6.65m MSL
- Topographic survey (66,300m<sup>2</sup>)
- Bathymetric survey (1,186,000m<sup>2</sup>)
- Tender Documents / Specifications / Drawings / BoQ



Coastal Protections / Revetments / **Beaches** / Surveying

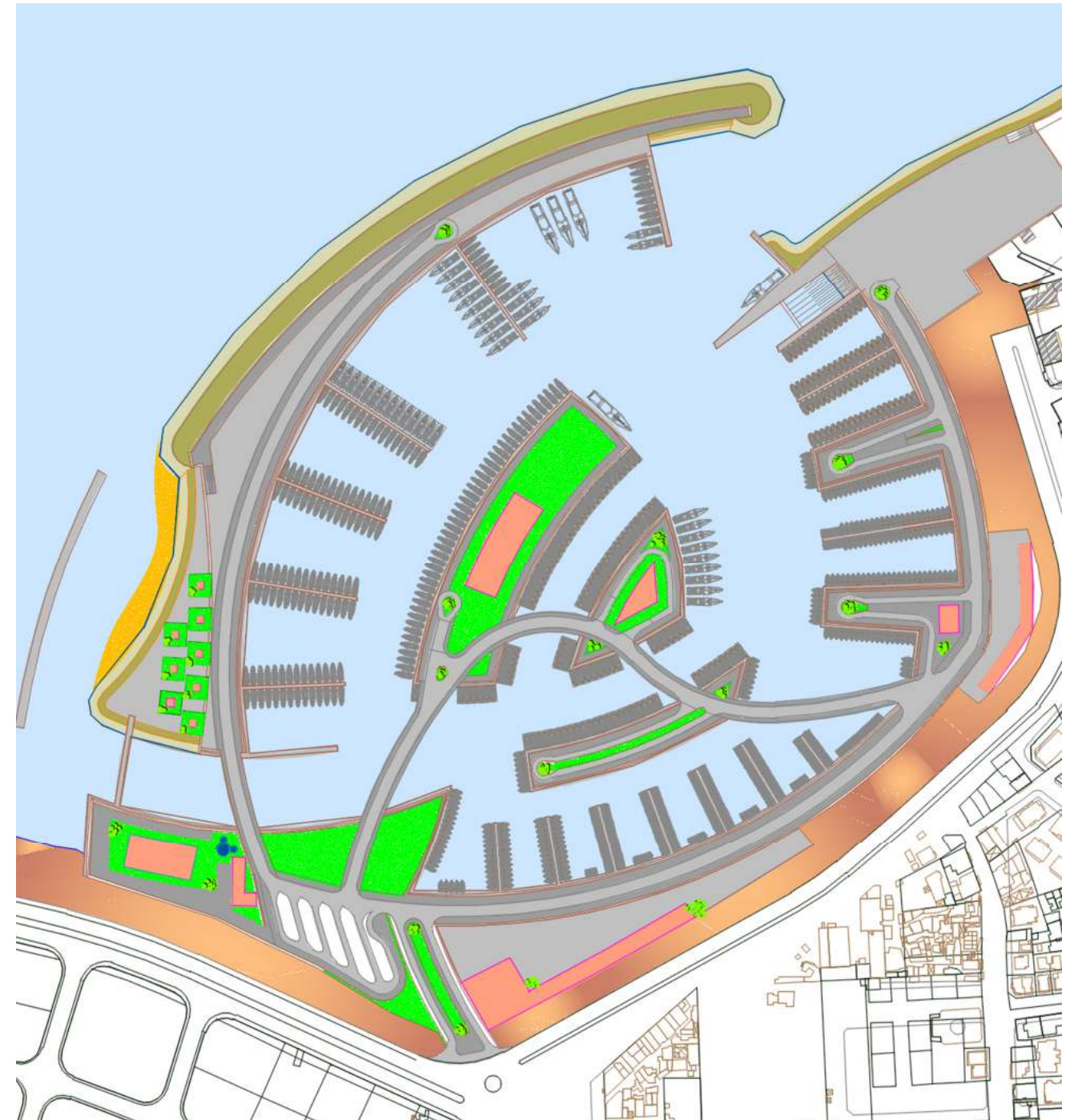
**Client** SOTEG  
**Location** LEBANON – Tripoli  
34°27'9" N  
35°48'22" E  
**Consultant** SEATEC sarl

## Tripoli Marina

**Year** 2014 – 2016  
Conceptual Design / Surveying

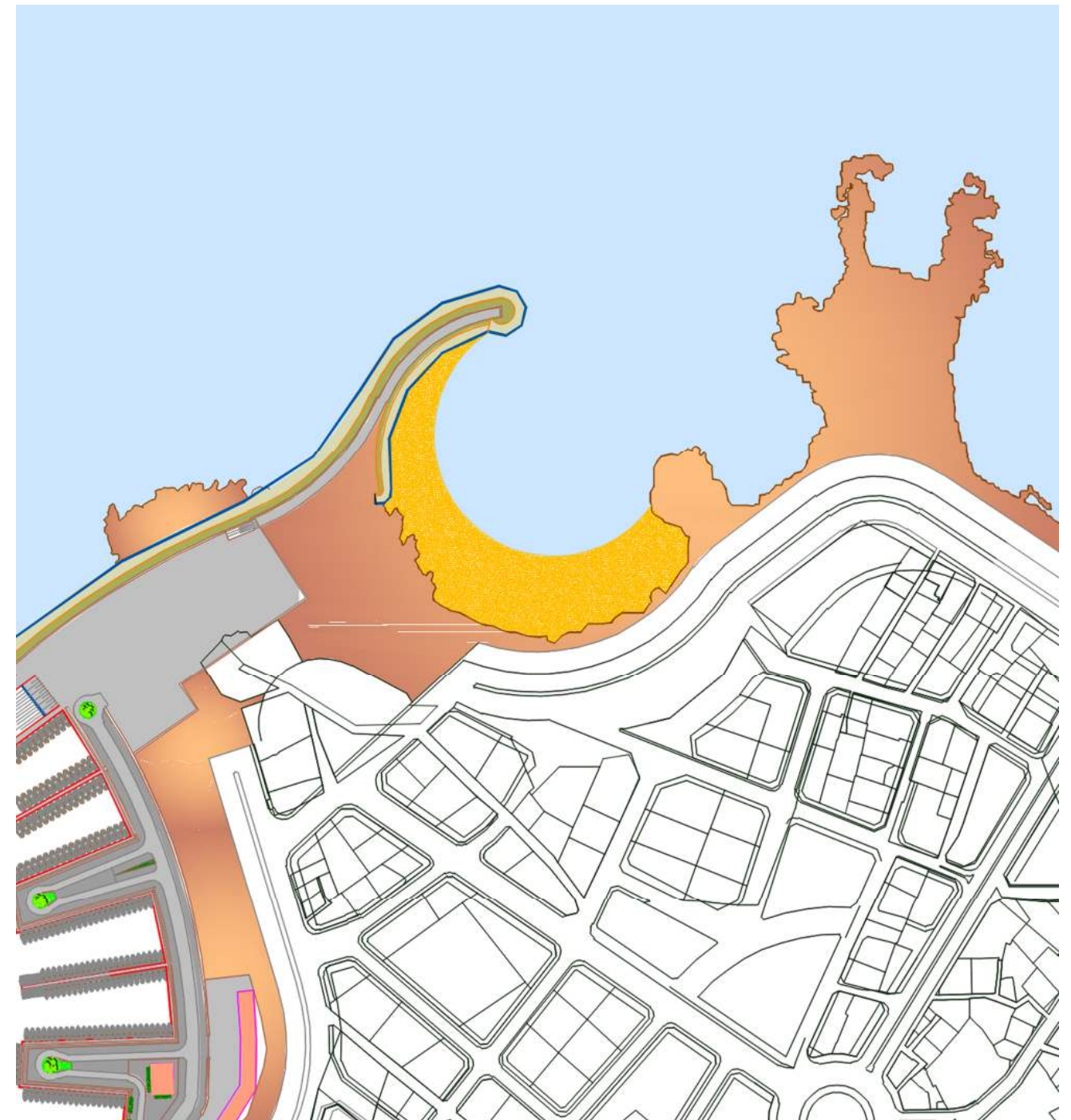
- Marina Master Plan
- Berthing capacity (975 yachts)
- Main Breakwater (Rubble mound type, L=880m @max -8.00m, core material, rocky filter and concrete Accropodes blocks Type I)
- Detached vertical breakwater (Underwater concrete, L=197m @max -3.00m)
- RC Crown walls
- Quaywalls (L=3,315m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=950m @-3.00m MSL, Nbr 14) / Precast concrete elements
- Slipway (Boat ramp)
- Marine accessories (Mooring bollards, fenders)

Ports / Marinas / Coastal Protections / Revetments / Seawalls / Lift Structures / Slipways / **Beaches** / Surveying



## Tripoli Marina

- Land reclamation and bituminous / RC Platforms
- Green spaces
- Access bridges
- Marina master headquarter, restaurants, offices, shops (11,700m<sup>2</sup>)
- Parking (25,200m<sup>2</sup>)
- Fueling station
- Sandy beach nourishment and stabilization (L=330m)
- Reclaimed area (176,500m<sup>2</sup>)
- Water body (197,500m<sup>2</sup>)
- Topographic survey (20,000m<sup>2</sup>)
- Bathymetric survey (377,400m<sup>2</sup>)
- Drawings / BoQ



Ports / Marinas / Coastal Protections / Revetments / Seawalls / Lift Structures / Slipways / **Beaches** / Surveying

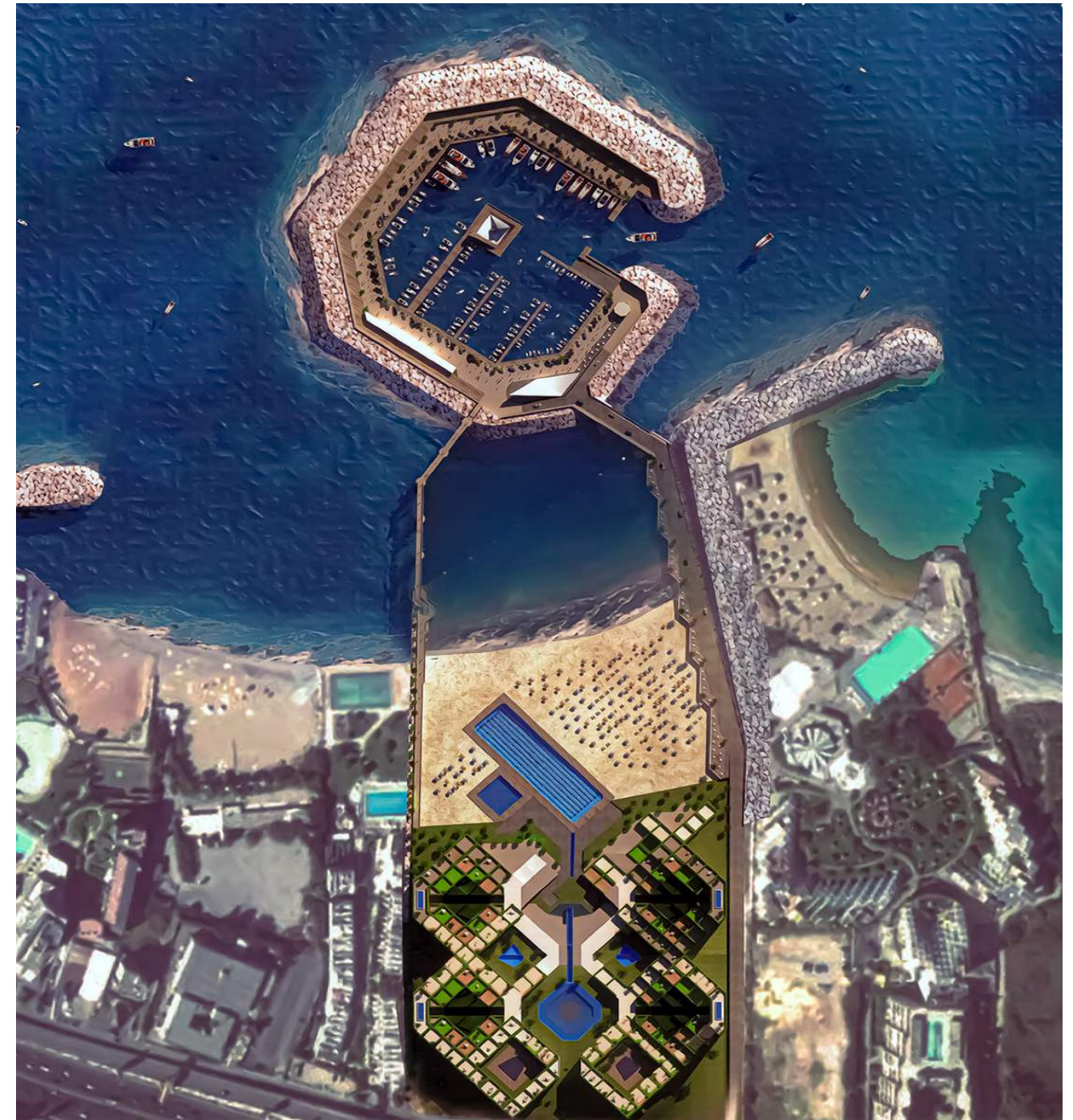
**Client** SAYFCO  
**Location** LEBANON – Zouk Mosbeh  
33°57'40" N  
35°36'1" E  
**Consultant** SEATEC sarl

## Galatea Marina

**Year** 2013 – 2014  
Design / Surveying / Permitting

- Marina Master Plan
- Berthing capacity (125 yachts)
- Main Breakwater (Rubble mound type, L=568m @max - 9.00m, core material, rocky filter and 16m<sup>3</sup> concrete Accropodes blocks Type I)
- RC Crown walls
- Quaywalls (L=256m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=200m @-4.50m MSL) / Precast concrete blocks (Gravity QW)
- Finger Pier (L=182m @-3.00m MSL, Nbr 3) / Precast concrete elements
- Slipway (Boat ramp) Marina Master Plan

Ports / Marinas / Coastal Protections / Seawalls / **Beaches** / Lift Structures / Slipways / Surveying / Permitting



## Galatea Marina

- Marine accessories (Mooring bollards, fenders)
- Land reclamation and bituminous / RC Platforms
- RC and bituminous platforms
- Pedestrian access bridge (L=138m)
- Car access bridge (L=30m)
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master headquarter, restaurants, offices, shops (2,204m<sup>2</sup>)
- Fueling station
- Sandy beach stabilization (L=200m)
- Reclaimed area (60,281m<sup>2</sup>)
- Water body (27,289m<sup>2</sup>)
- Topographic survey (28,900m<sup>2</sup>)
- Bathymetric survey (377,400m<sup>2</sup>)
- Specifications / Drawings / BoQ / Permitting



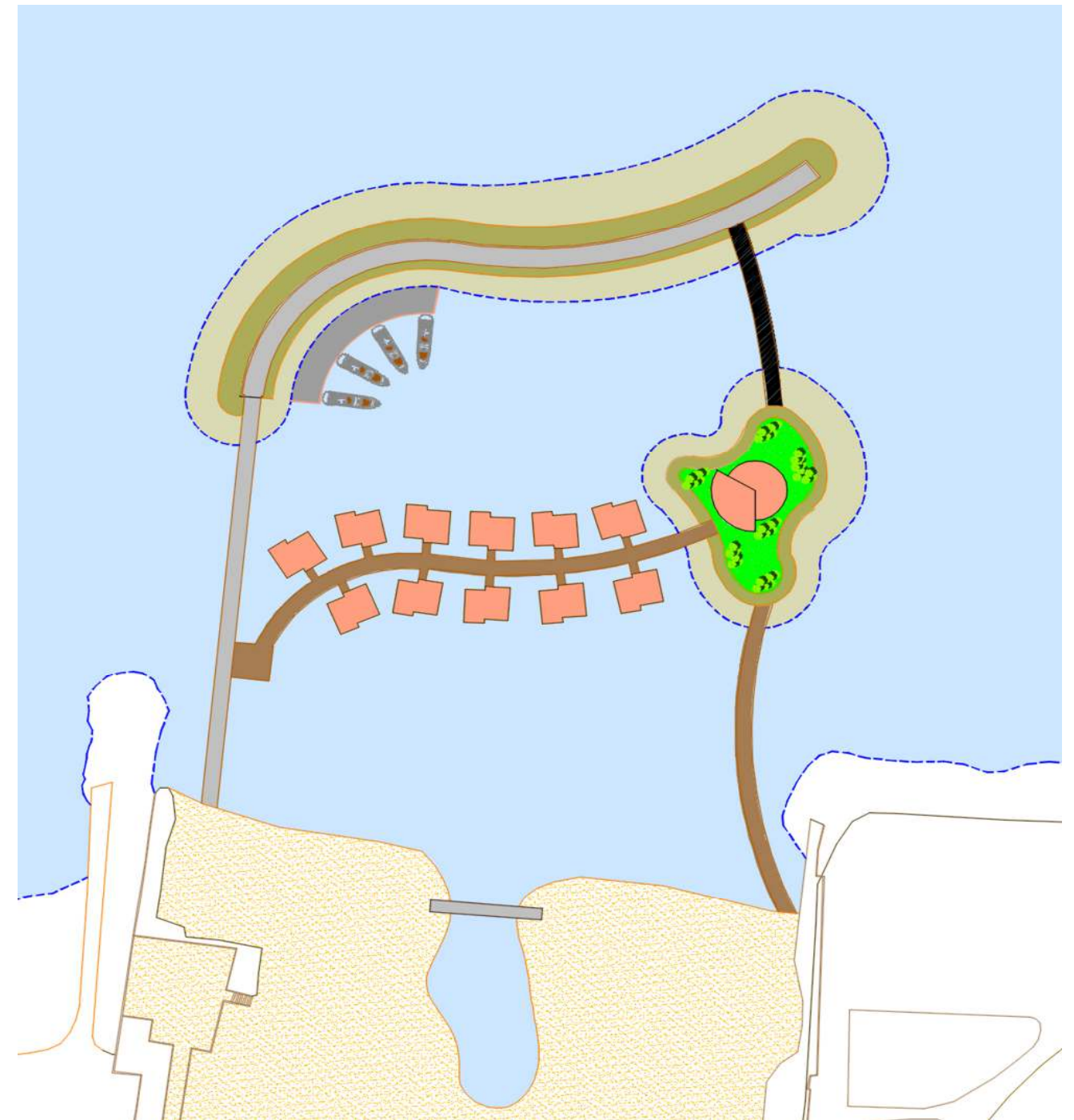
Ports / Marinas / Coastal Protections / Seawalls / **Beaches** / Lift Structures / Slipways / Surveying / Permitting

**Client** Tropical Beach  
**Location** LEBANON – Zouk Mosbeh  
33°57'32" N  
35°35'55" E  
**Consultant** SEATEC sarl

## Tropical Beach Waterfront

**Year** 2008  
Conceptual Design

- Waterfront and beach development
- Detached breakwater (L=110m) with rocky protection @max -4.00m
- Reclaimed area / island (3,700m<sup>2</sup>)
- 11 wooden bungalows on piles surrounded by seawater
- Sandy beach stabilization (L=100m of shoreline)
- Motor boats berths (Nbr 4)
- Drawings / BoQ



Ports / Marinas / **Beaches**

# ABOU ABDALLAH COASTAL PROTECTION

40

**Client** Marine Express International Ltd

**Location** LEBANON – Qasmiye  
33°20'1"N  
35°14'39"E

**Consultant** SEATEC sarl

## Abou Abdallah coastal protection

**Year** 2008

Design

- Coastal protection and shoreline stabilization
- Two L-shape groynes (Rubble mound type, L=380m) with rocky protection
- Sandy beach rehabilitation (L=350m)
- Drawings / BoQ



*Coastal Protections / Revetments / Beaches*