



COMPANY PROFILE 2025



The sea _____ our responsibility

WATERFRONTS

www.seatec-sarl.com

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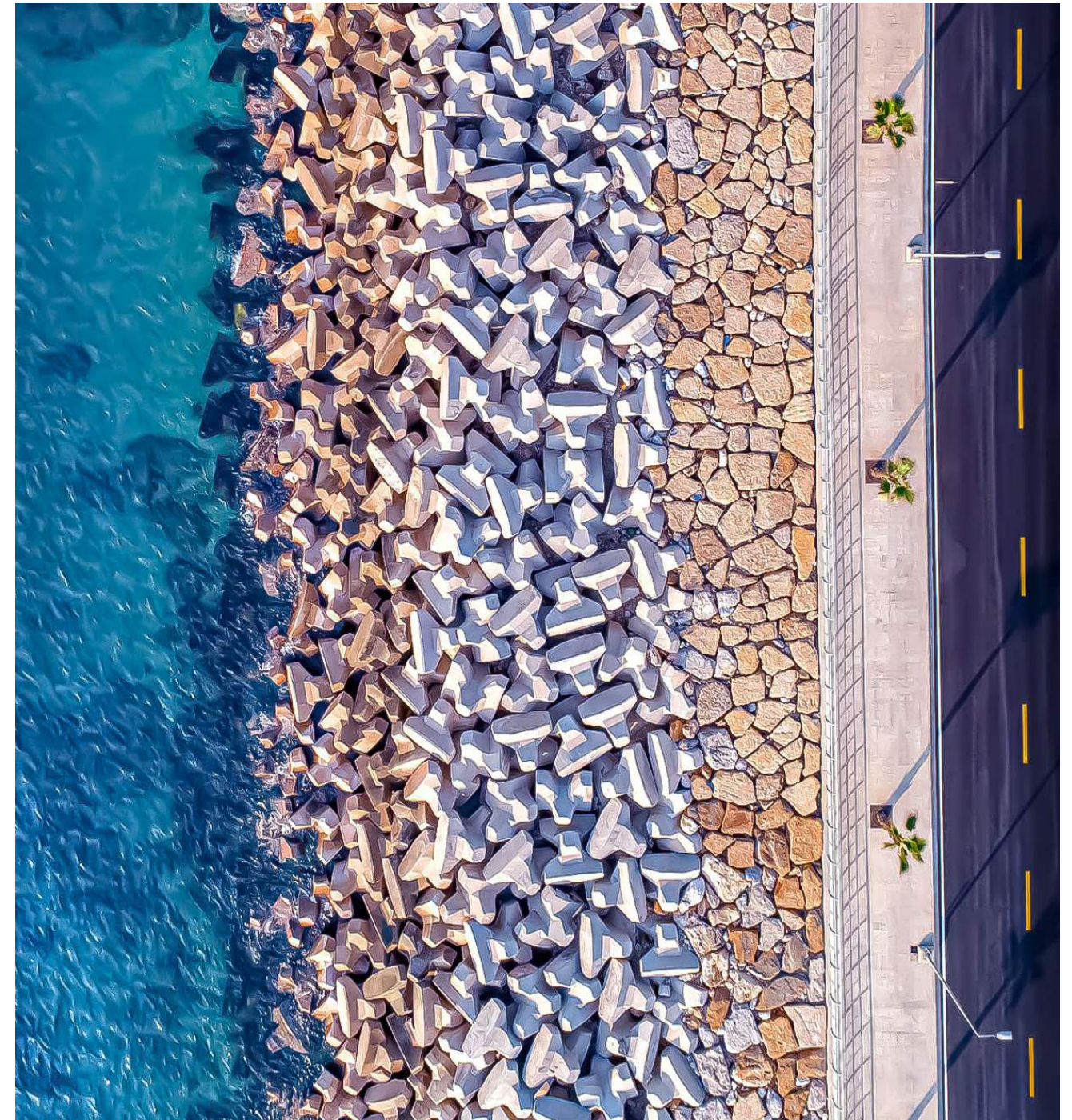
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SEATEC

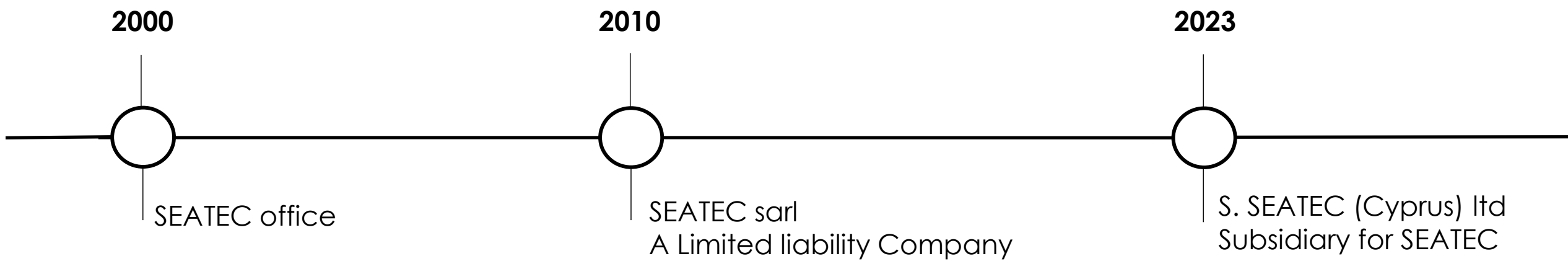
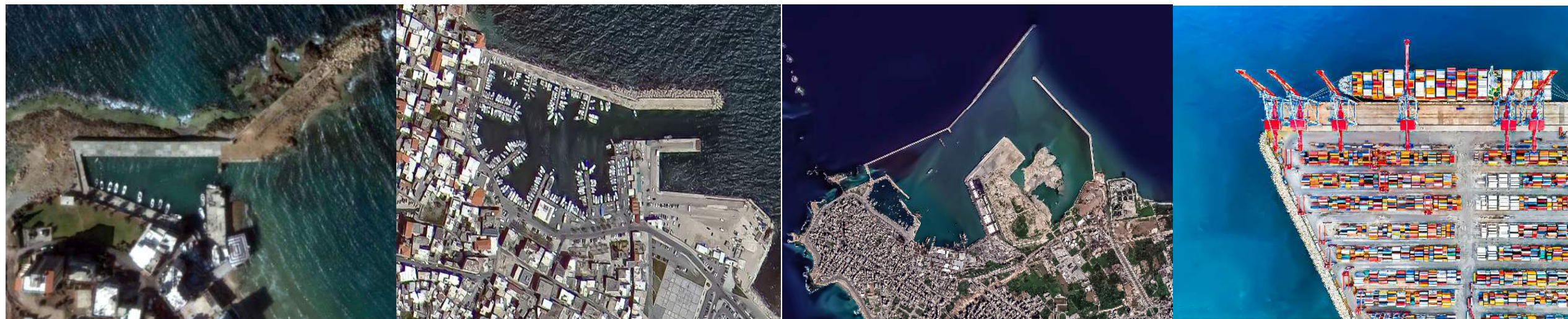
provides its clients with design and supervision services in coastal and port engineering, covering surveying, site investigation, master planning, numerical modeling, tender and detailed design, feasibility and EIA studies, permitting, construction planning, management and supervision.

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 ●	
Middle East	AFRICA
Lebanon	Egypt
Jordan	Libya
Syria	Tunis
GULF	Algeria
UAE	Djibouti
KSA	Ivory Coast
Qatar	Cameroon
Oman	Nigeria
ASIA	EUROPE
India	Cyprus

GET IN TOUCH WITH US

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HEAD OFFICE

SEATEC sarl

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E-mail : seatec@seatec-sarl.com

SUBSIDIARY OFFICE

S. SEATEC (CYPRUS) Ltd

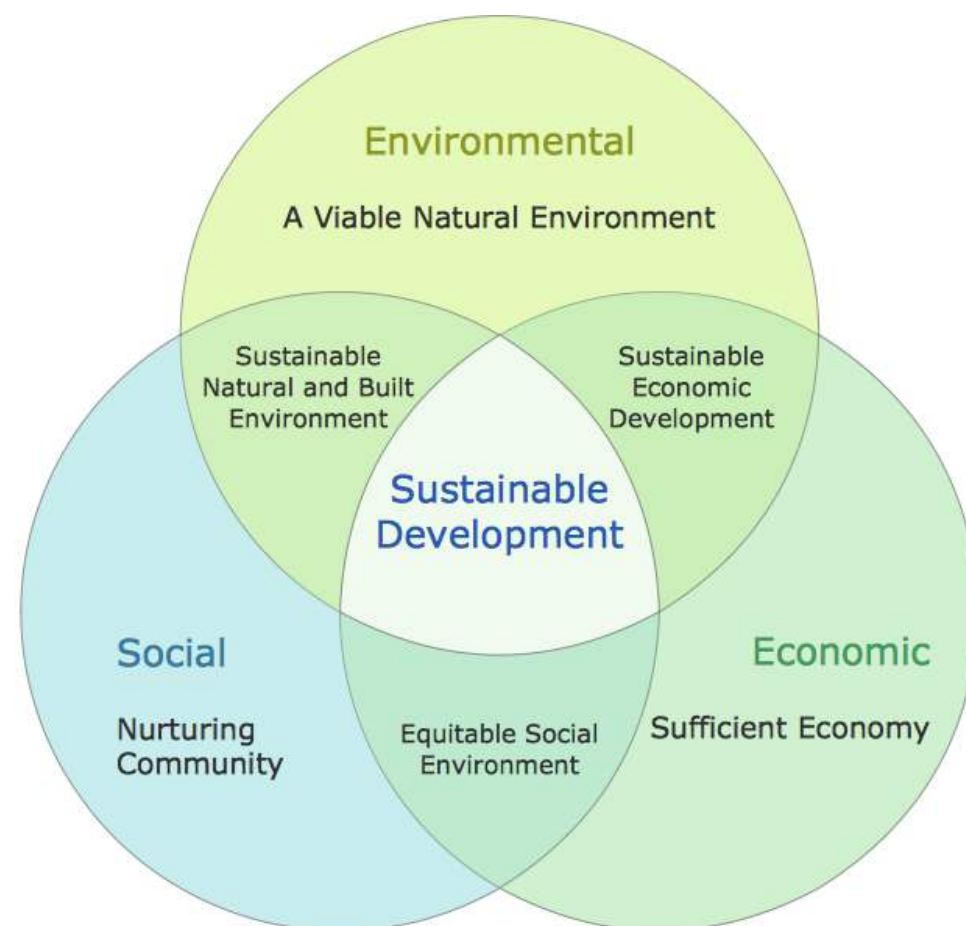
Michail Olympiou, 26 Dali,
2540 Nicosia, CYPRUS



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

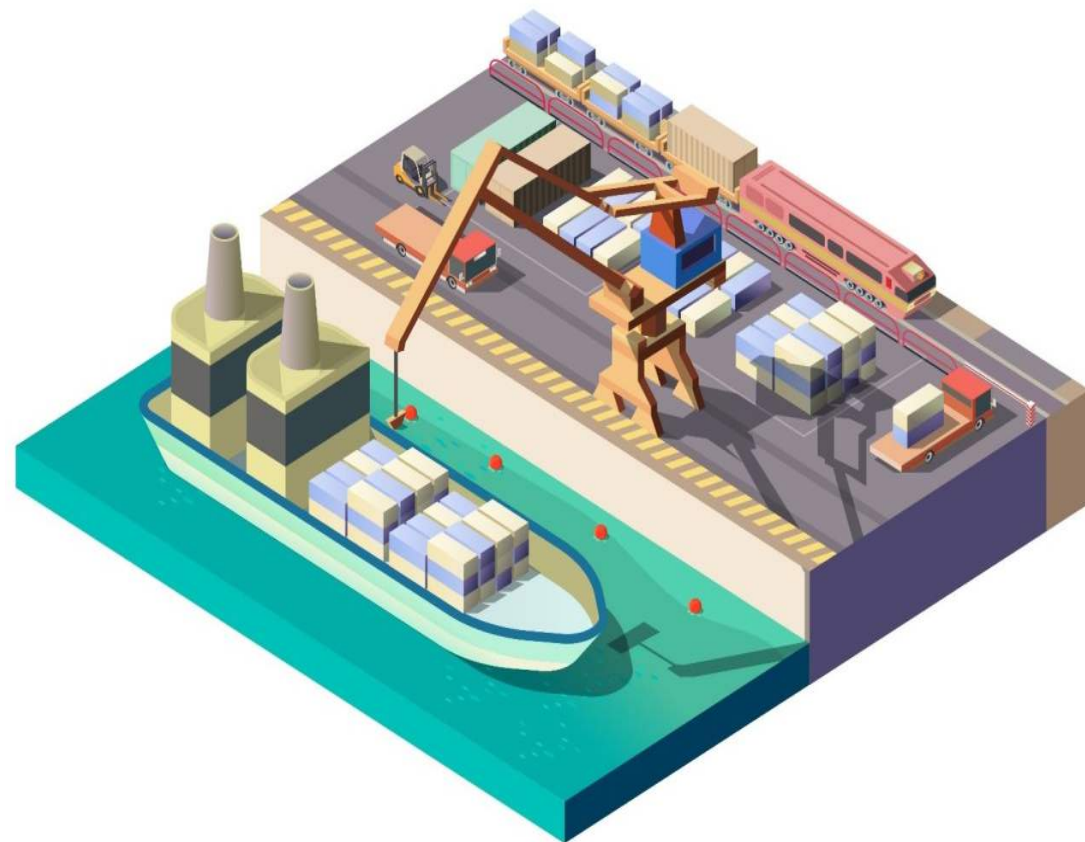
"Pioneering eco-friendly and green solutions that preserve coastlines and promote a sustainable future for generations to come"



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) 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...)



CAPACITY OF THE COMPANY

9

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

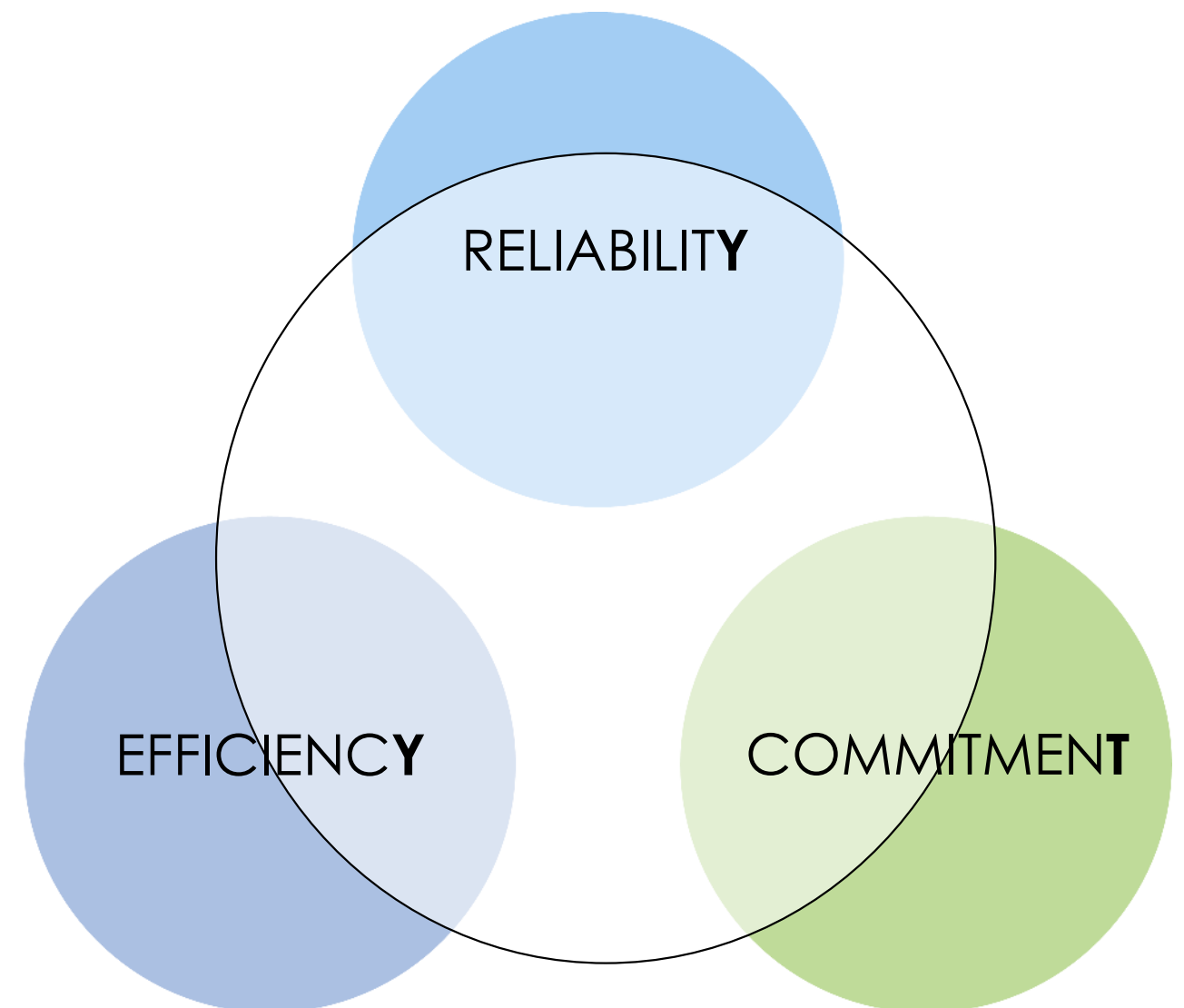
SEATEC have an experienced Team for in house design, covering all coastal and ports engineering aspects, geotechnical analysis, numerical modeling, works supervision..., keeping an excellent cooperation with leading European maritime and hydraulic laboratories for 2D/3D physical modeling.

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

WATERFRONTS



SARAYA AQABA BEACH NOURISHMENT

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Client Consolidated Contractors Company (CCC)

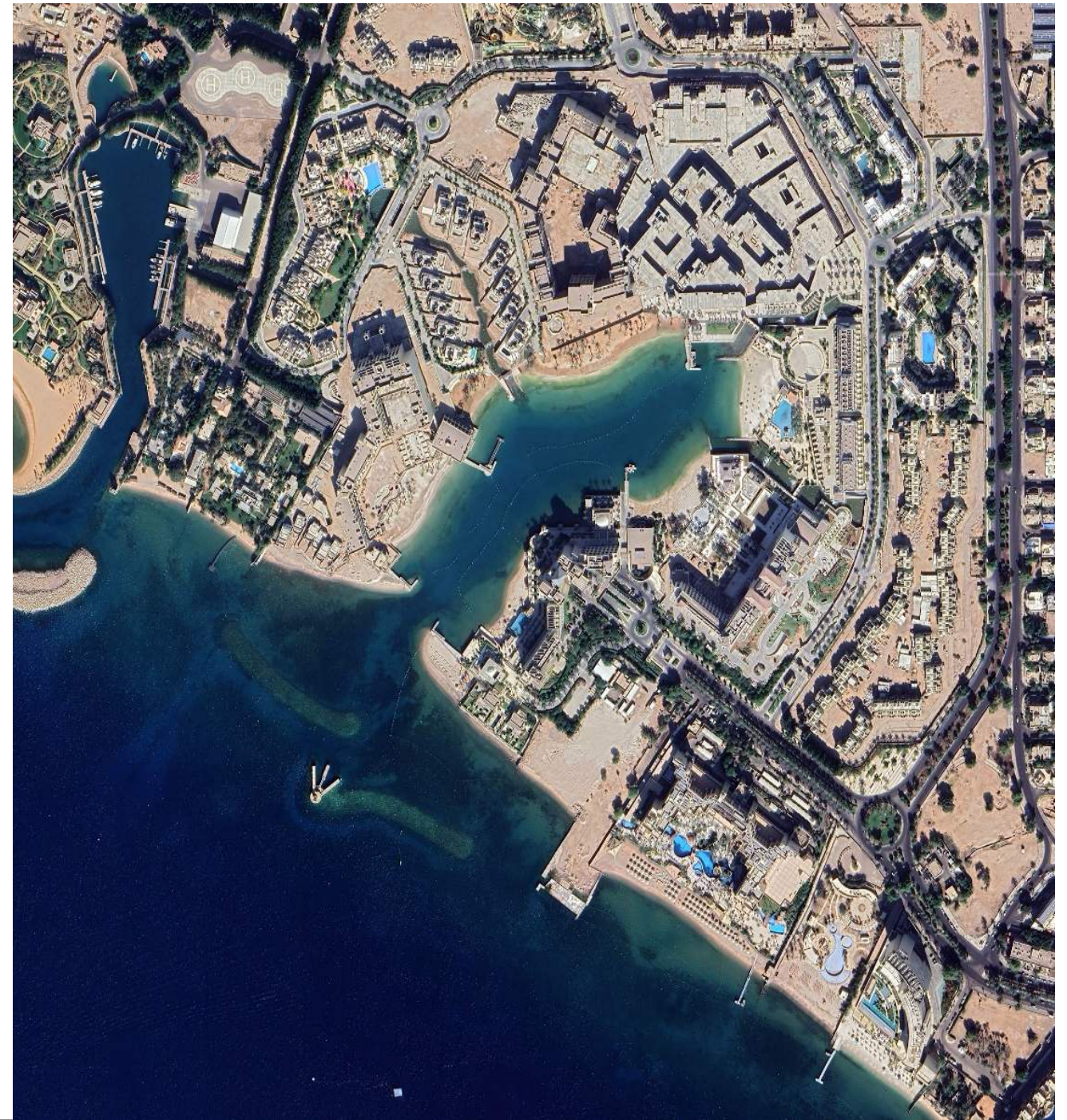
Location JORDAN – Aqaba
29°32'6" N
34°59'26" E

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

PORT OF BEIRUT MASTER PLAN

Client Ministry of Public Works and Transport
Location LEBANON – Beirut
33°54'10" N
35°31'03" E
Consultant SEATEC sarl

Port of Beirut Master Plan

Year 2022 – 2023
Conceptual Design

- New Master plan of the Port (Rehabilitation and reconstruction) following the August 4th blast
- LAF Naval base (83,842m2)
- Ro-Ro Terminal (76,239m2)
- General Cargo Terminal (76,612m2)
- SEZ (194,610m2)
- Grain Terminal (76,338m2)
- Container storage (63,137m2)
- Container Terminal (492,378m2)
- Administration (92,332m2)
- Marina (88,908m2)
- Investors area (446,918m2)
- Public space / Memorial area (70,148m2)
- Main entrance (28,511m2)
- Railway station (84,982m2)

Ports / **Waterfronts** / General Cargo Terminals / Container Terminals / Grain Terminals / Naval Bases / Marinas



DBAYEH WATERFRONT – PHASE 2 (1/2)

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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

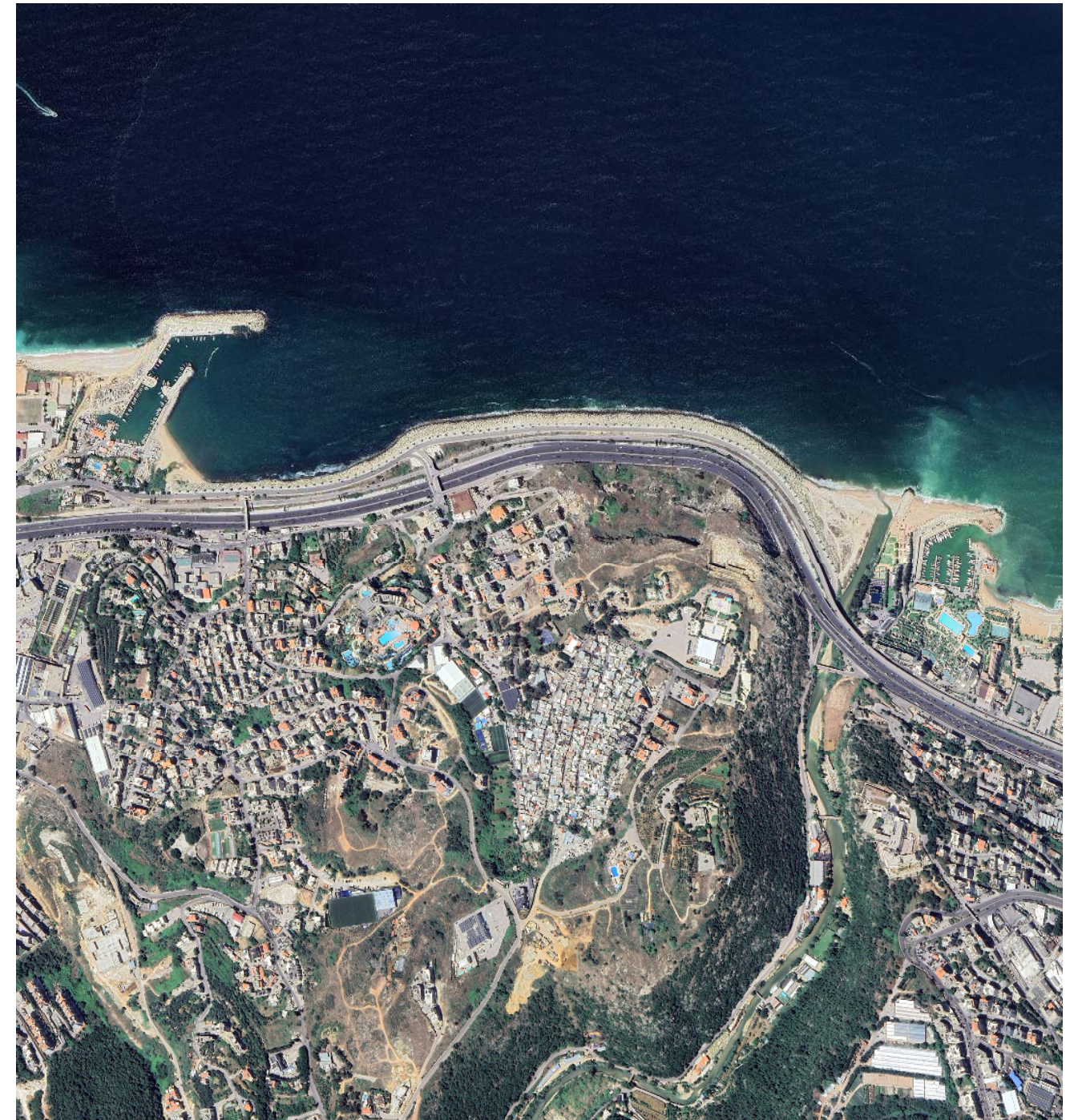
Consultant SEATEC sarl

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...)

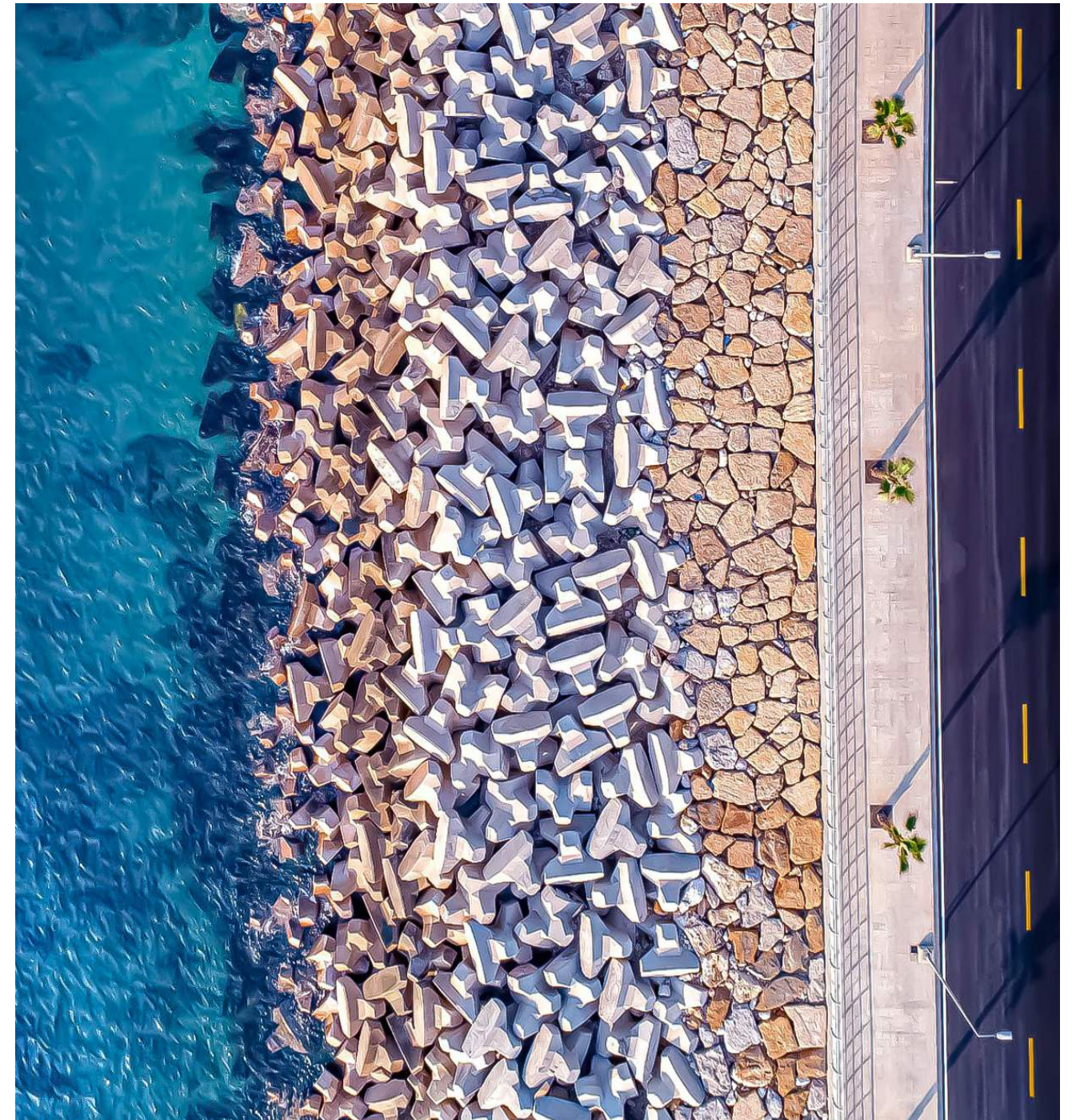
Waterfronts / Coastal Protections / Revetments / Beaches / Surveying



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 (50,000m²) / leveling, sand nourishment
- Coastal rocky protection of the inner river bank (Nahr el Kalb)
- Dredging of the river bed sediments
- Topographic survey (70,000m²)
- Tender Documents / Specifications / Drawings / BoQ



Waterfronts / Coastal Protections / Revetments / Beaches / Surveying

Client CCIAT (Chamber of Commerce Industry and Agriculture at Tripoli and North Lebanon)

Location LEBANON - North Lebanon -
Tripoli city to Klayaat airport
34°30'30"N
35°56'50"E

Consultant SEATEC sarl

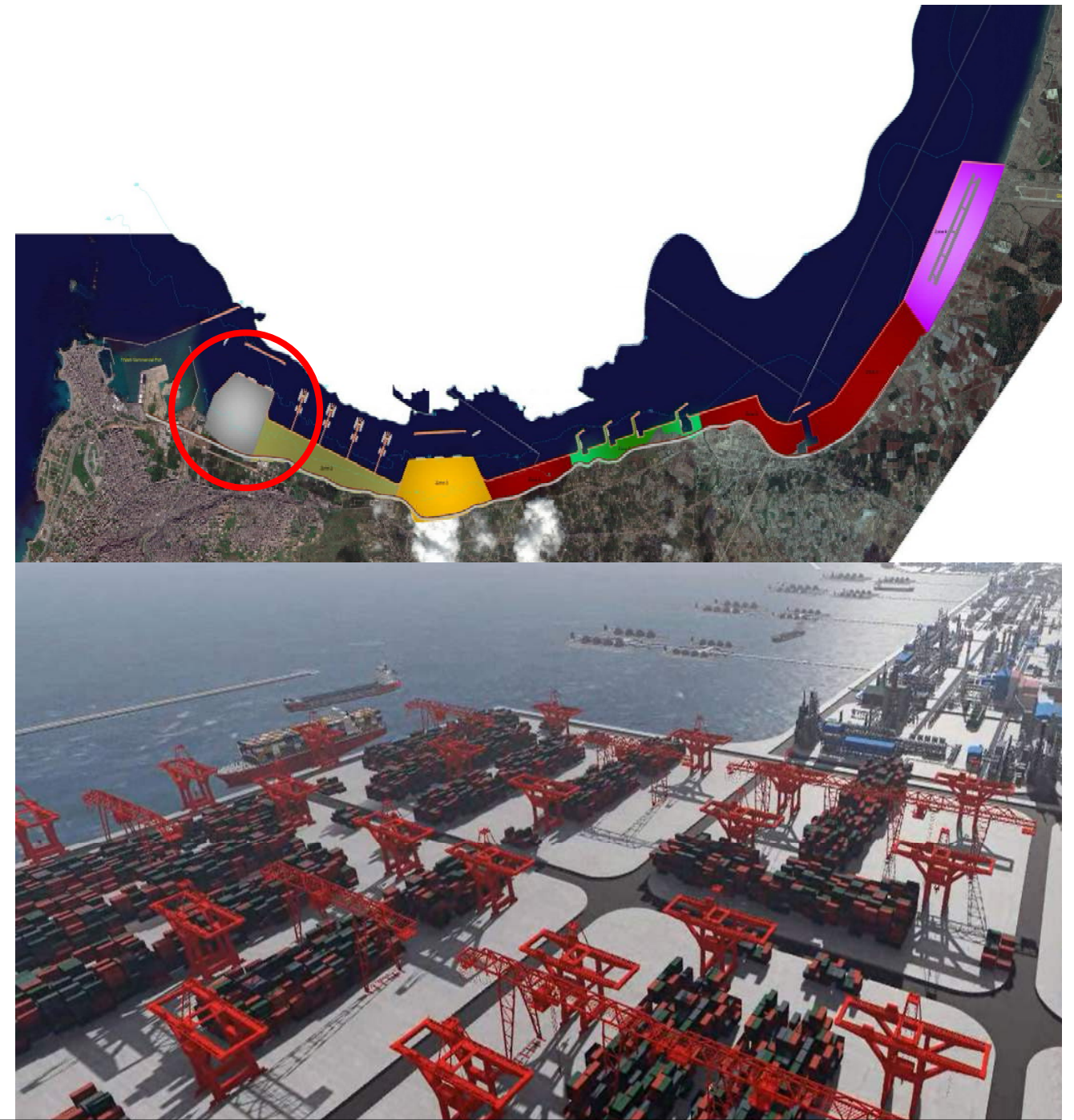
RECNO^R (Reclamation at North Lebanon)
Industrial zone from the Port of Tripoli to Klayaat Airport (23km of shoreline)

Year 2018 – 2019 – 2020 – 2021
Conceptual Design / Permitting

Zone 1 (1,750,000m²)

- Zone 1A (707,000m²) New container terminal
- Detached main breakwater (Rubble mound type, L=1,000m @max -15.00m MSL, core material, rocky filter and concrete Accropodes blocks)
- Extension of the Port main breakwater (Rubble mound type, L=1,000m @max -20.00m MSL, core material, rocky filter and concrete Accropodes blocks)

Ports / **Waterfronts** / Permitting / General Cargo Terminals / Industrial Ports / Oil & Gas Terminals / Fishing Ports / Container Terminals / Service Ports / Coastal Protections / Revetments / Mooring Structures / Dolphins



RECNO^R

- Main quaywall (L=1000m @-15.00m MSL) / sheetpiles QW

Zone 1B (326,000m²)

- Reclaimed area / extension of Tripoli Port existing container terminal

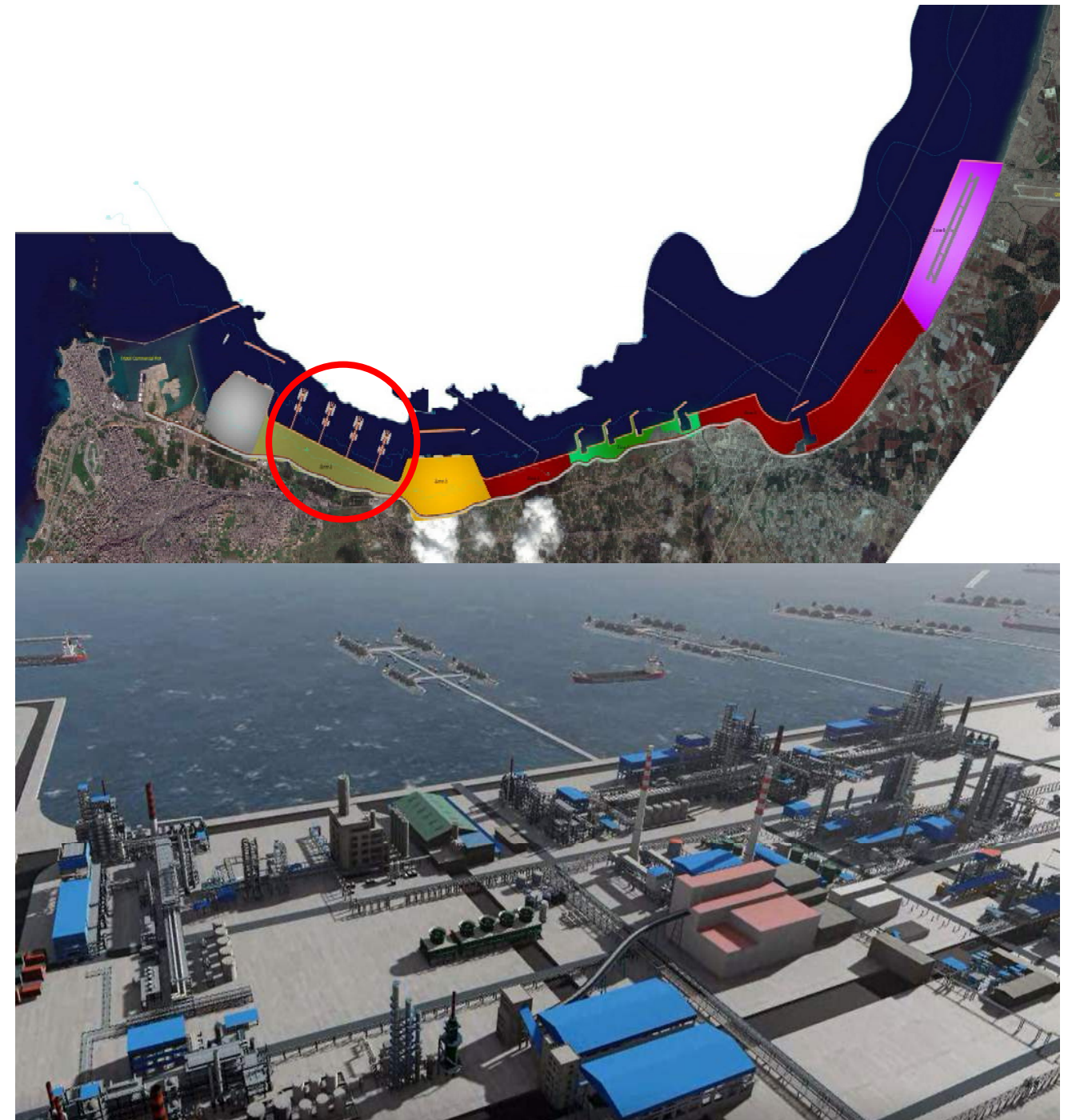
Zone 1C (716,000m²)

- Reclaimed area / new special economic zone (SEZ)

Zone 2 (1,857,000m²) Oil and gas terminal

- 4 Jetties for tankers berthing (Metallic structure on piles, L=870m)
- Berths (L=140m @-12.00m MSL, Nbr 8) / Breasting and Mooring dolphins
- Berths (L=225m @-18.00m MSL, Nbr 8) / Breasting and Mooring dolphins
- Reclaimed platforms for oil, gas and petrochemical industry, refineries, fuel storage tanks...
- Berthing capacity (16 tankers)

Ports / **Waterfronts** / Permitting / General Cargo Terminals / Industrial Ports / Oil & Gas Terminals / Fishing Ports / Container Terminals / Service Ports / Coastal Protections / Revetments / Mooring Structures / Dolphins



REC NOR

Zone 3 (2,147,000m²) General cargo terminal and industrial zone

- Detached main breakwater (Rubble mound type, L=1,200m @max -15.00m MSL, core material, rocky filter and concrete Accropodes blocks)
- Main quaywall (L=1500m @-10.00m MSL) / Precast concrete blocks (Gravity QW)
- Terminal platforms for import of raw materials necessary for industries
- Industrial zone for miscellaneous industrial plants and storage

Zone 4 (936,000m²) Miscellaneous industries / platforms

- Reclaimed platforms
- Coastal protection
- Industrial zone for miscellaneous industrial plants and storage

Zone 5 (990,000m²) Special industries with berths

- Reclaimed platforms
- Special industries (clinker, coal...) with related berths

Ports / **Waterfronts** / Permitting / General Cargo Terminals / Industrial Ports / Oil & Gas Terminals / Fishing Ports / Container Terminals / Service Ports / Coastal Protections / Revetments / Mooring Structures / Dolphins



RECNOR

Zone 6 (938,000m²) Oil and gas offshore platforms services

- Reclaimed platforms for service of offshore oil and gas platforms
- Storage of equipments, related maintenance and industry facilities
- Port for tug and service boats

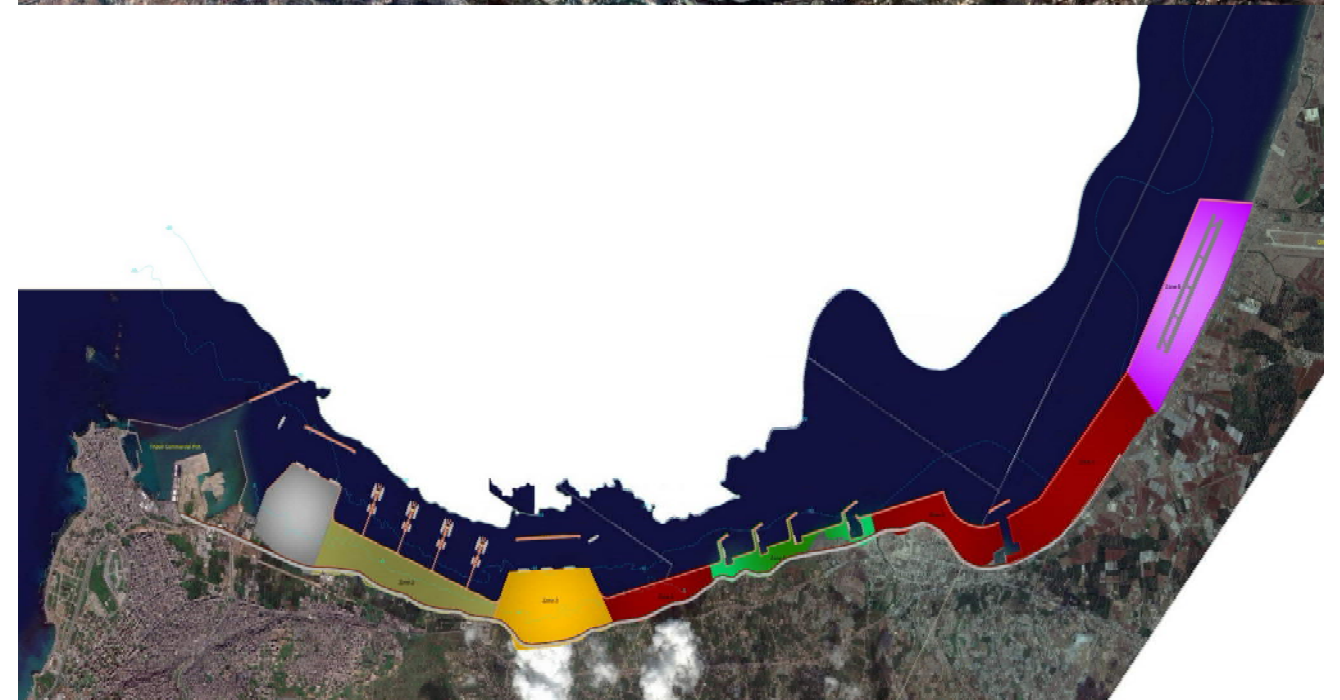
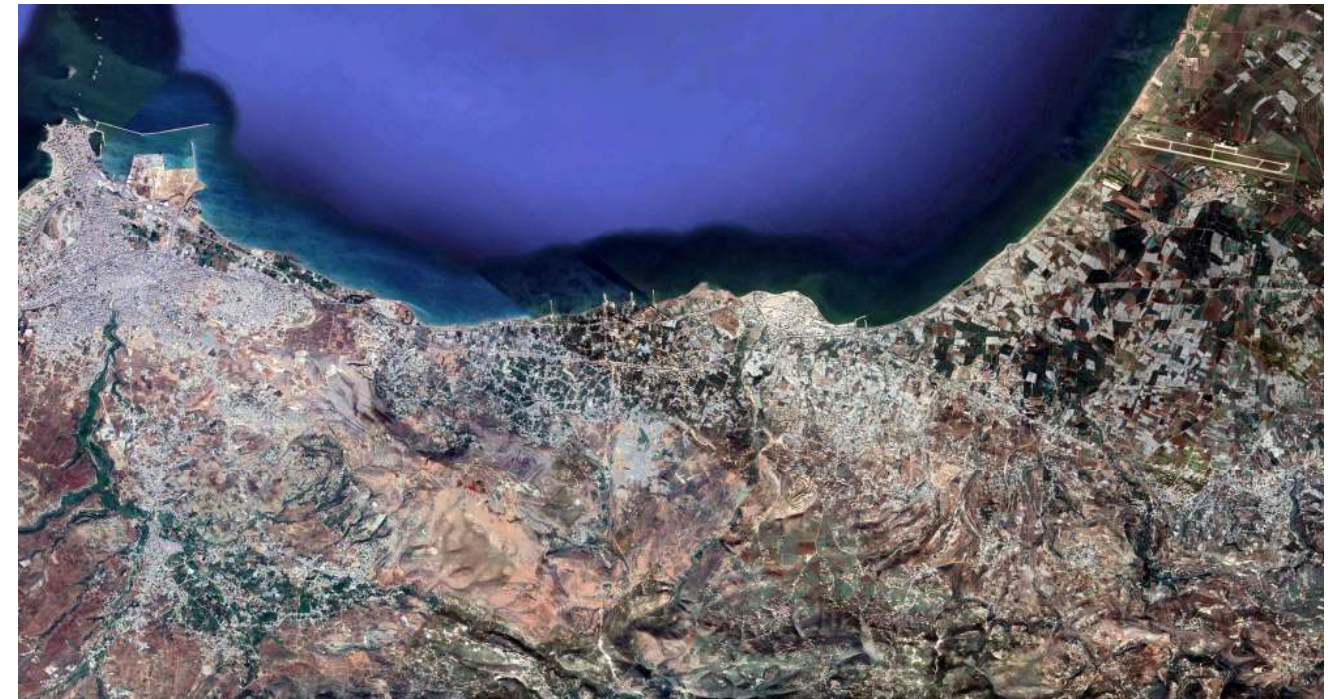
Zone 7 (3,054,000m²) Miscellaneous industries and fishing

- Reclaimed platforms
- Miscellaneous industries
- Fishing industries
- Extension of Abdeh Fishing Port

Zone 8 (4,178,000m²) Airport extension / services

- Extension of existing Klayaat Airport
- New runway
- Auxiliary services in neighboring platforms (hospitals, hotels...)
- Total reclaimed areas (16,096,000m²)
- Drawings / Presentation / Permitting

Ports / **Waterfronts** / Permitting / General Cargo Terminals / Industrial Ports / Oil & Gas Terminals / Fishing Ports / Container Terminals / Service Ports / Coastal Protections / Revetments / Mooring Structures / Dolphins



DIVING SPOTS IN SAIDA

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

Location LEBANON – Saida
33°34'16" N
35°21'50" E

Consultant SEATEC sarl

Diving spots in Saida

Year 2018
Design / Surveying

- Setting three diving spots in Saida (20,000m2 @ -25.00m / 1.6km from shore, 5,000m2 @ -16.00m / 1.2km and 5,000m2 @ -13.00m / 1km) with the possibility to sink wrecks in the mentioned spots
- Bathymetric survey (293,500m2)
- Drawings / Permitting

Waterfronts / Surveying / 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 (5,400m² / 5,200m²)
- New walkway
- Bicycle lane
- Landscaping and furniture (Benches, bins...)
- Water and electrical network
- Lighting
- Lifeguards and electrical room (42m²)
- Topographic survey (189,700m²)
- Bathymetric survey (3,440,000m²)
- Tender Documents / Specifications / Drawings / BoQ



Waterfronts / Coastal Protections / Revetments / Beaches / Surveying

JOUNIEH WATERFRONT

25

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

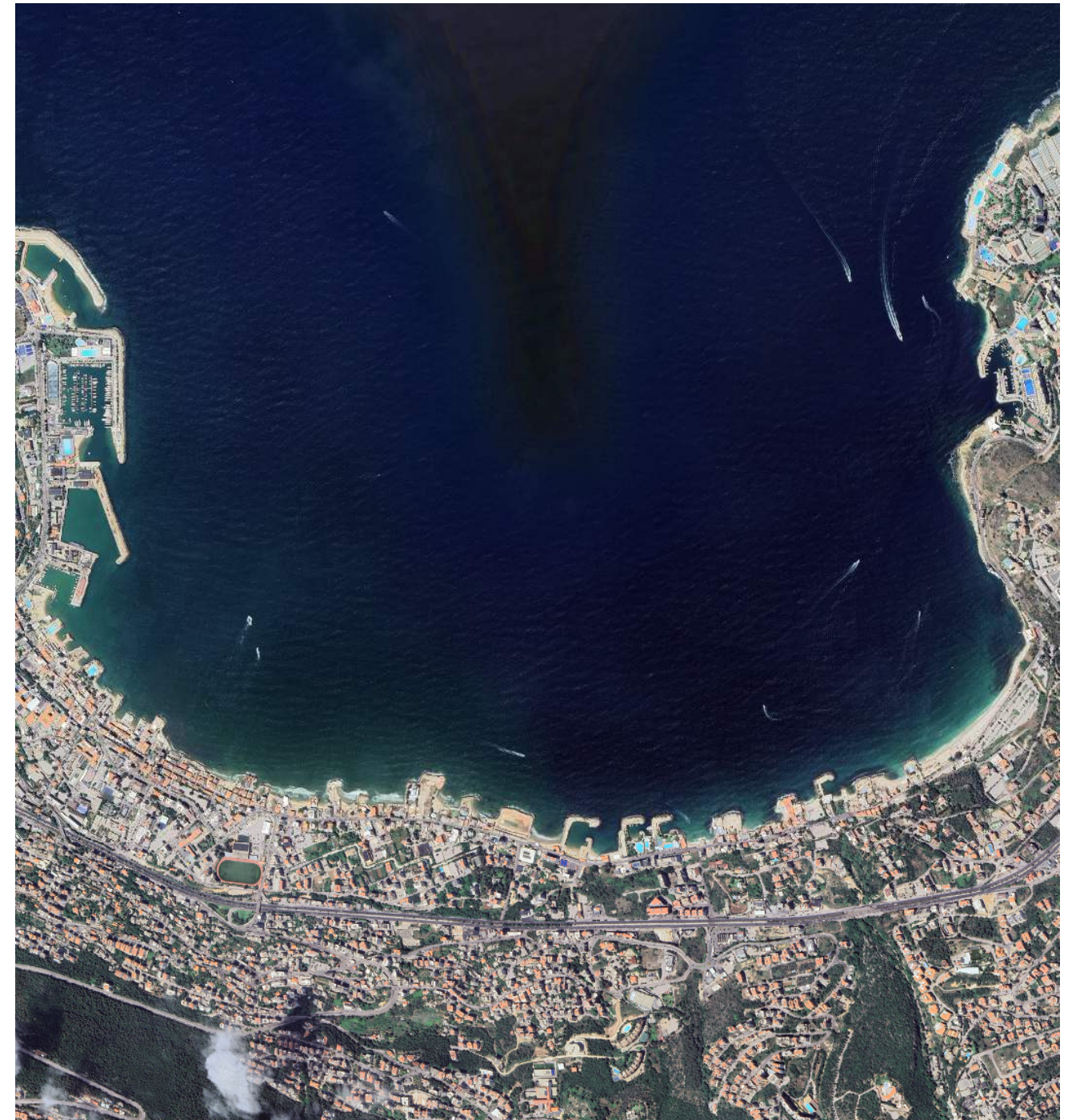
Consultant SEATEC sarl

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 (8,235,000m²)
- Drawings / Decree / Permitting

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



SAIDA RECLAIMED AREA

26

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

Location LEBANON – Saida
33°32'45" N
35°21'44" E

Consultant SEATEC sarl

Master Plan / Zoning for the Reclaimed area in the vicinity of Saida Commercial Port (505,452 m2)

Year 2017
Design / Surveying

- Container and General Cargo (53,000m2)
- Grain silo (23,000m2)
- Special economic zone 1 (12,000m2)
- Special economic zone 2 (7,000m2)
- Open storage yard for cars (18,500m2)
- Oil and gas with sealine and offshore berth (59,500m2)
- Public spaces (28,754m2)
- Landfill area (70,000m2)
- Waste water treatment plant (8,500m2)
- Commercial area (50,750m2) Plots (195,500m2)
- Drawings / Decree / Master Plan

Ports / Container Terminals / General Cargo Terminals / Grain Terminals / Oil & Gas Terminals / Sealines / Offshore Pipelines / **Waterfronts** / Mooring Structures / CBM



NATOUR DEVELOPMENT

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Client Natour Development sal

Location LEBANON – Beirut
34°22'28" N
35°44'10" E

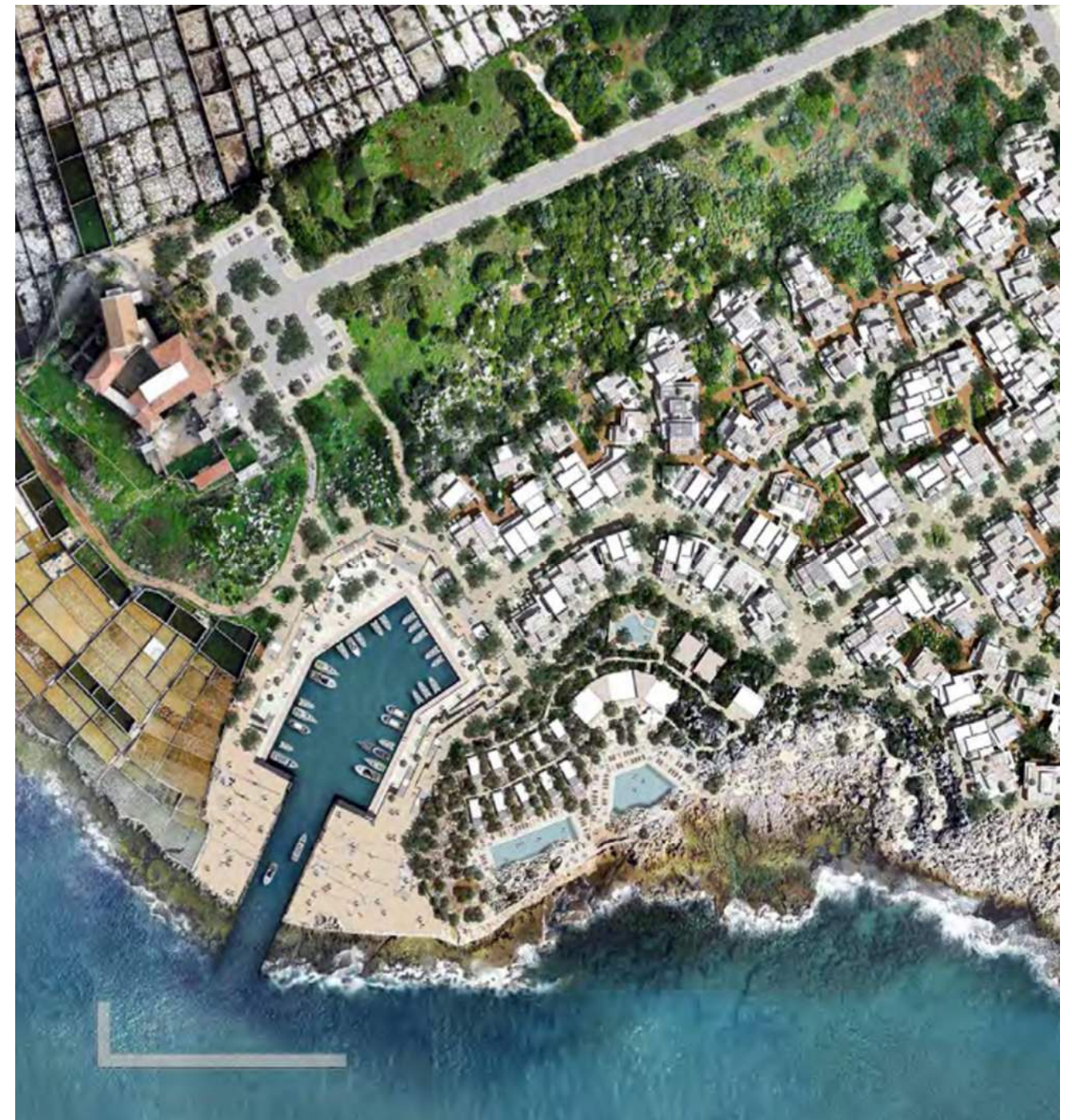
Consultant SEATEC sarl

Natour Development

Year 2016 – 2017 – 2018 – 2019
Design / Surveying / Permitting

- Fishing / Marina Master Plan
- Vertical Concrete Main Breakwater
- Quaywalls / underwater concrete blocks (Gravity QW)
- Concrete platforms
- Dredging and excavation works for access channel and basin
- Accessories (Jib Crane, mooring bollards, fenders, lighting, water supply...)
- Beach Club design (Waves run-up / overtopping assessment)
- Waterfront protection
- Topographic survey
- Bathymetric survey (5,920,000m²)
- Underwater inspection
- Specifications / Drawings / BOQ / Permitting

Ports / Marinas / Fishing Ports / **Waterfronts** / Coastal Protections / Seawalls / Lift Structures / Hoists / Surveying



LINOR WATERFRONT (1/2)

Client N/A
Location LEBANON – Antelias
33°54'30" N
35°34'34" E
Consultant SEATEC sarl

Linor Waterfront

Year 2016 – 2017 – 2018 – 2019 – 2020
Design / Surveying / Permitting

- Master Plan
- Reclaimed area (1,225,000m2)
- High rise, residential, offices (172,400m2)
- Retail (65,700m2)
- Villas (79,100m2)
- Private beach (36,100m2)
- Green areas and public beach (70,250m2)
- Marina: Reclaimed area (60,000m2)
- Water body Basin (58,000m2)
- Berthing capacity (640 Yachts)
- Recreational attractions (74,900m2)
- Walkways / Water promenade (443,000m2)
- Highways and roads (244,000m2)

Ports / Marinas / Fishing Ports / **Waterfronts** / Service Ports / Coastal Protections /
Revetments / Seawalls / Lift Structures / Hoists / Surveying



Linor Waterfront

- Main breakwater (Rubble mound type, L=1,850m, core material, rocky filter and precast concrete Accropodes blocks Type II)
- Waterways and channels
- Fishing port: Reclaimed area (37,000m2)
Water body Basin (35,000m2)
Berthing capacity (450 Fishing boats)
- Service port (Water taxi):
Reclaimed area (37,000m2)
Water body Basin (7,500m2)
Berthing capacity (50 water taxi)
- Service port (Hoist and maintenance area):
Reclaimed area (8,000m2)
Water body Basin (2,000m2)
Berthing capacity (10 boats)
- Bathymetric survey (1,740,000m2)
- Drawings / BoQ / Permitting

Ports / Marinas / Fishing Ports / **Waterfronts** / Service Ports / Coastal Protections / Revetments / Seawalls / Lift Structures / Hoists / Surveying



BYBLOS CAUSEWAY

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

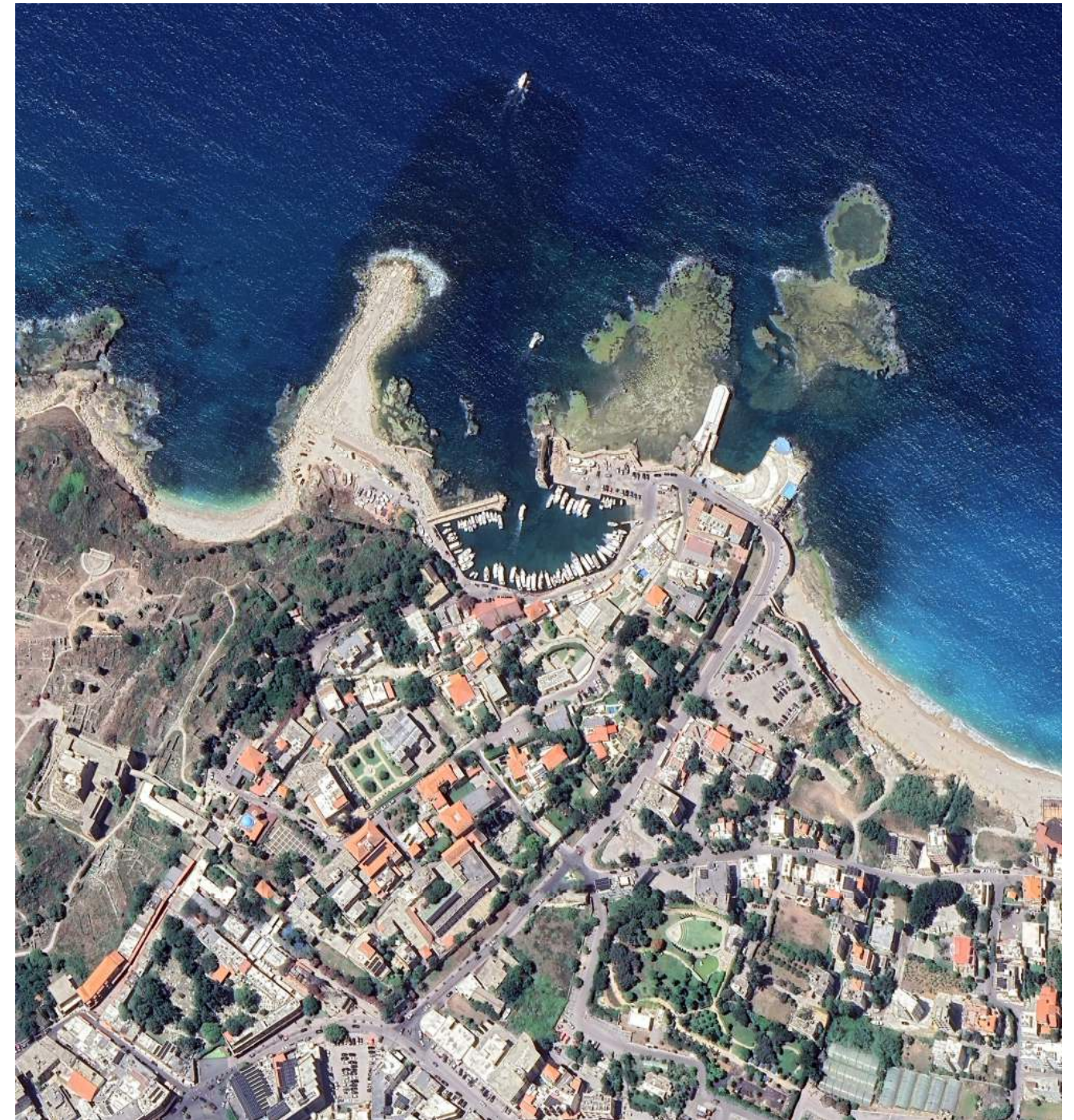
Location LEBANON – Byblos
34°7'17" N
35°38'36" E

Consultant SEATEC sarl

Byblos causeway

Year 2014
Conceptual Design

- Removal of the existing Main Breakwater and substitution with a submerged reef (L=376m @max -11.00m / concrete Accropodes blocks) and a causeway on piles linked to shore
- Drawings / BoQ



Ports / **Waterfronts** / Fishing Ports / Coastal Protections / Revetments

MINA TRIPOLI WATERFRONT

31

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

Location LEBANON – Mina / Tripoli
34°26'45" N
35°48'43" E

Consultant SEATEC sarl

Mina Tripoli waterfront

Year 2014
Design / Surveying

- Waterfront coastal protection
- Sloped rocky protection (L=274m) @max -2.00m MSL
- Bituminous platform
- Infrastructure (Manholes and storm drainage pipes)
- Dredging for protection toe @max -2.00m MSL
- Topographic survey (17,800m²)
- Bathymetric survey (6,400m²)
- Tender Documents / Drawings / BoQ



Ports / **Waterfronts** / Coastal Protections / Revetments / Surveying

DBAYEH WATERFRONT (1/2)

32

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

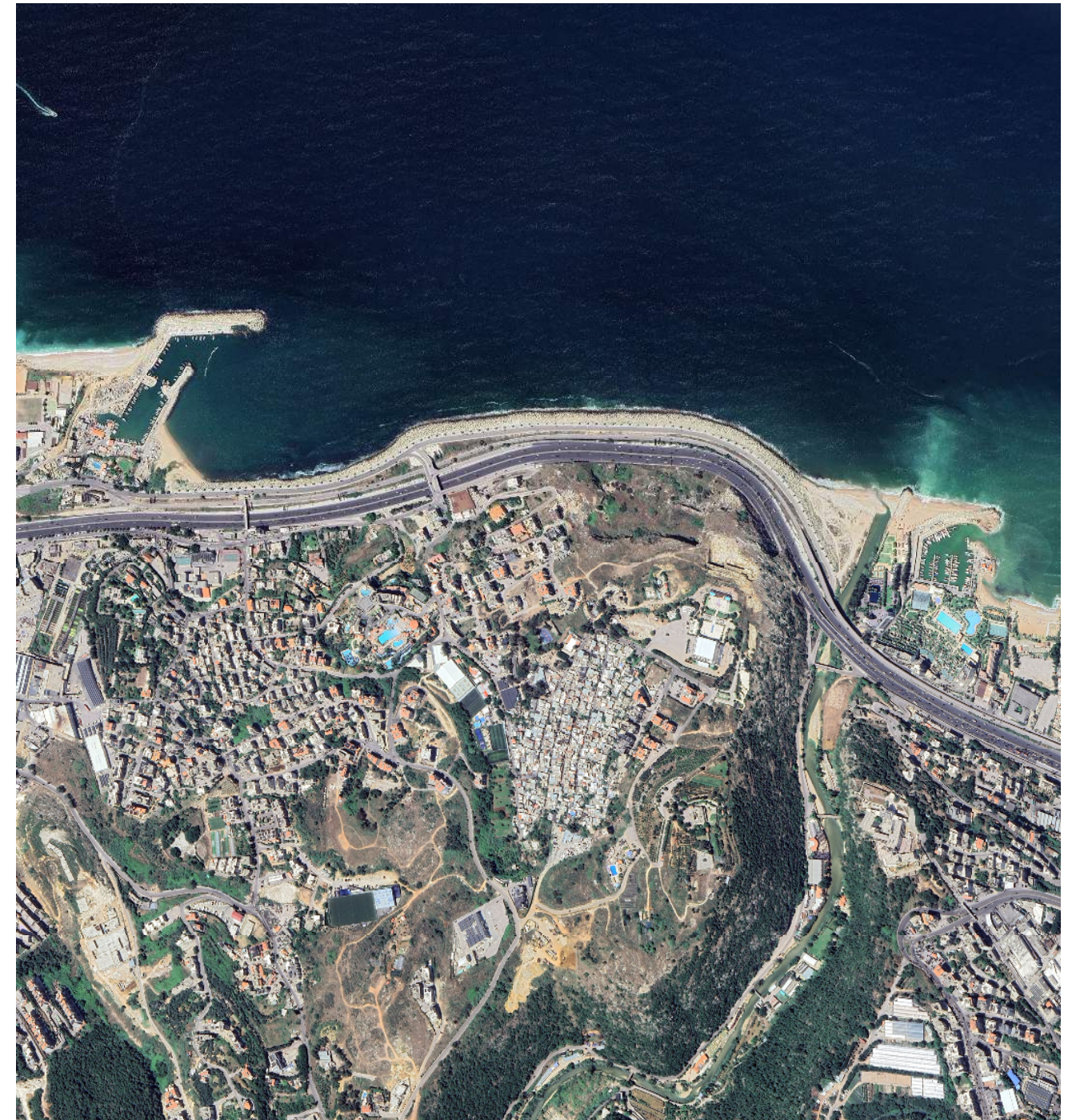
Location LEBANON – Dbayeh
33°57'10" N
35°35'32" E

Consultant SEATEC sarl

Dbayeh waterfront – Phase 2

Year 2015
Design / Surveying

- Highway protection and rehabilitation works
- Rehabilitation of the heavily damaged rocky riprap along existing Dbayeh highway (L=1,359m @max -5.15m MSL) / Sloped protection (Rubble mound type, QR core, rocky filter and 6.3-9-12 and 16m³ concrete Accropodes Blocks Type I armor layer)
- 18m³ concrete Accropodes Blocks Type I (Submerged reef)
- Additional protection along Nahr el Kalb river bank (Rubble mound type, rocky armor layer, RC flood wall)
- Dredging for protection toe
- Excavation of existing protection and walkway



Waterfronts / Coastal Protections / Revetments / Beaches / Surveying

DBAYEH WATERFRONT (2/2)

33

Dbayeh waterfront

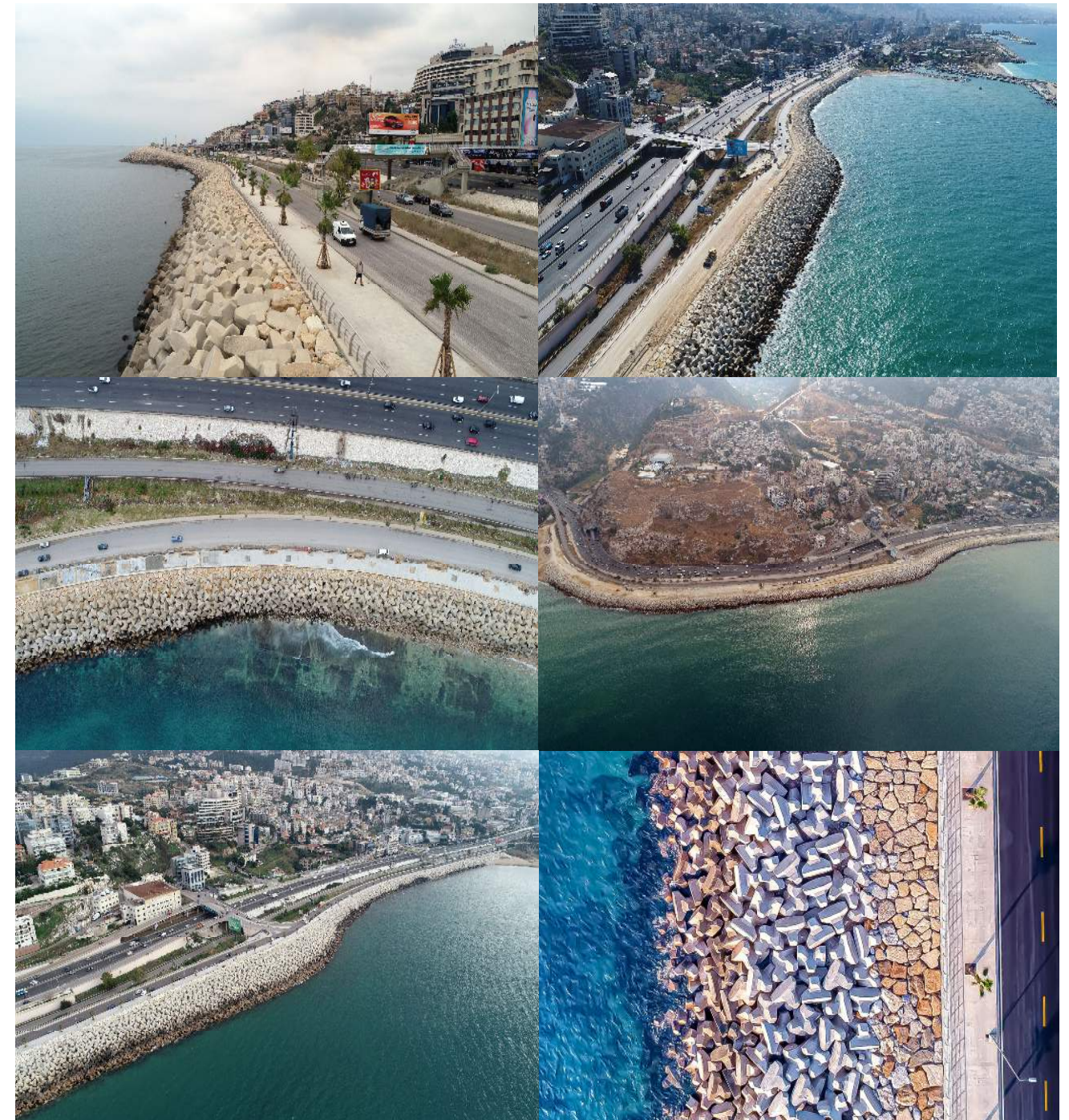
Year 2015

- New walkway (Additional width) for pedestrians
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, manholes)
- Extension of RC Box culverts (Nbr=7)
- Storm water system for the area under the bridge
- Landscaping (Washingtonia robusta trees, waste containers)
- Bituminous coating / marking of coastal road (1,650m)
- Excavation works
- Topographic survey (55,100m²)
- Bathymetric survey (1,114,000m²)
- Geotechnical investigation
- Tender Documents / Drawings / BoQ

Year 2016 – 2018

Works Supervision

- Contractor : ARACO Lebanese for Asphalt
- Duration : 24 months



Waterfronts / Coastal Protections / Revetments / Beaches / Surveying

KALAMOUN WATERFRONT DEVELOPMENT

34

Client LEBANESE REPUBLIC
Municipality of Kalamoun

Location LEBANON – Kalamoun
34°23'22"N
35°47'11"E

Consultant SEATEC sarl

Kalamoun waterfront development

Year 2007
Conceptual Design

- Overall layout
- Green areas (4,562m²)
- Sport courts (1,400m²)
- Bleachers (348m²)

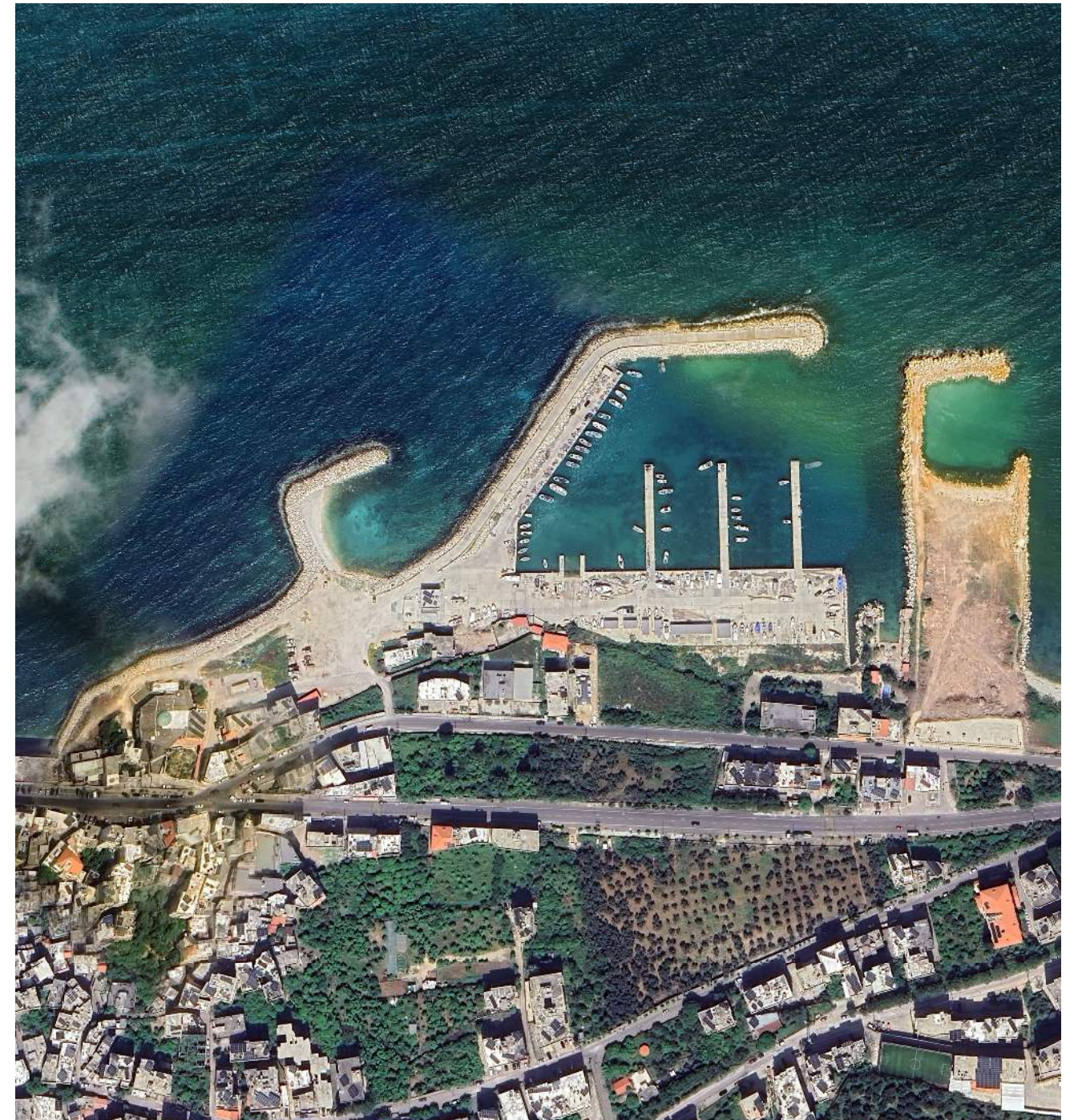
Year 2009
Conceptual Design

- Green areas and car parking (8,474m²)
- Reclaimed area (2,142m²)

Year 2010
Surveying

- Topographic survey of the waterfront area (19,900m²)

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



NAJMAT ABU DHABI AL REEM ISLAND

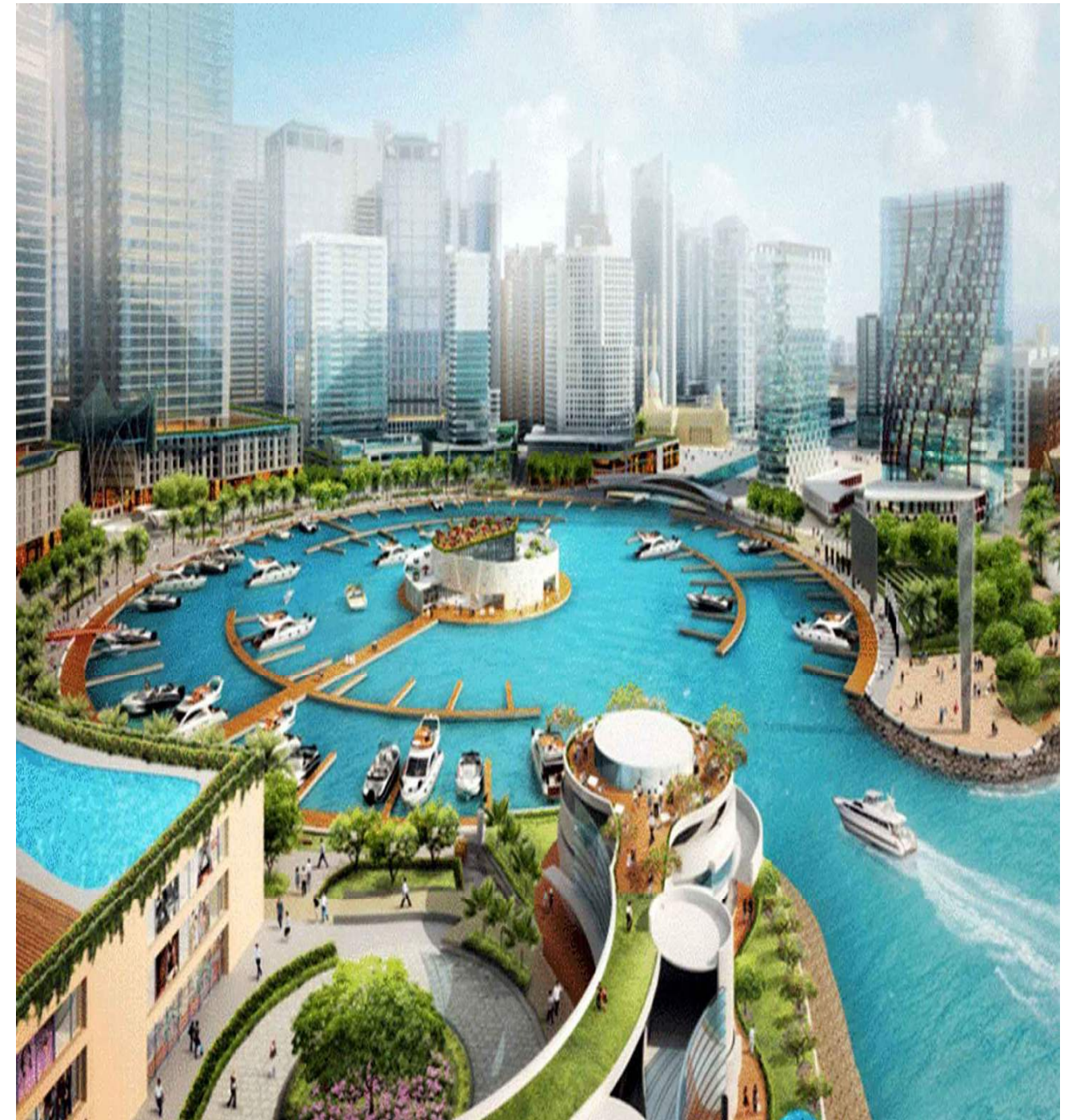
35

Client BATCO sal
Location United Arab Emirates (UAE) – Abu Dhabi
24°28'49" N
54°24'29" E
Consultant SEATEC sarl

Najmat Abu Dhabi Al Reem Islans

Year 2006 – 2007
Bidding assistance

- Method statement for blockworks



Ports / **Waterfronts** / Coastal Protections / Revetments

SARAYA AQABA (1/2)

36

Client Jacques Rrenou Office (2006 – 2011)
MARCONTRACTING (2010 – 2011)

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

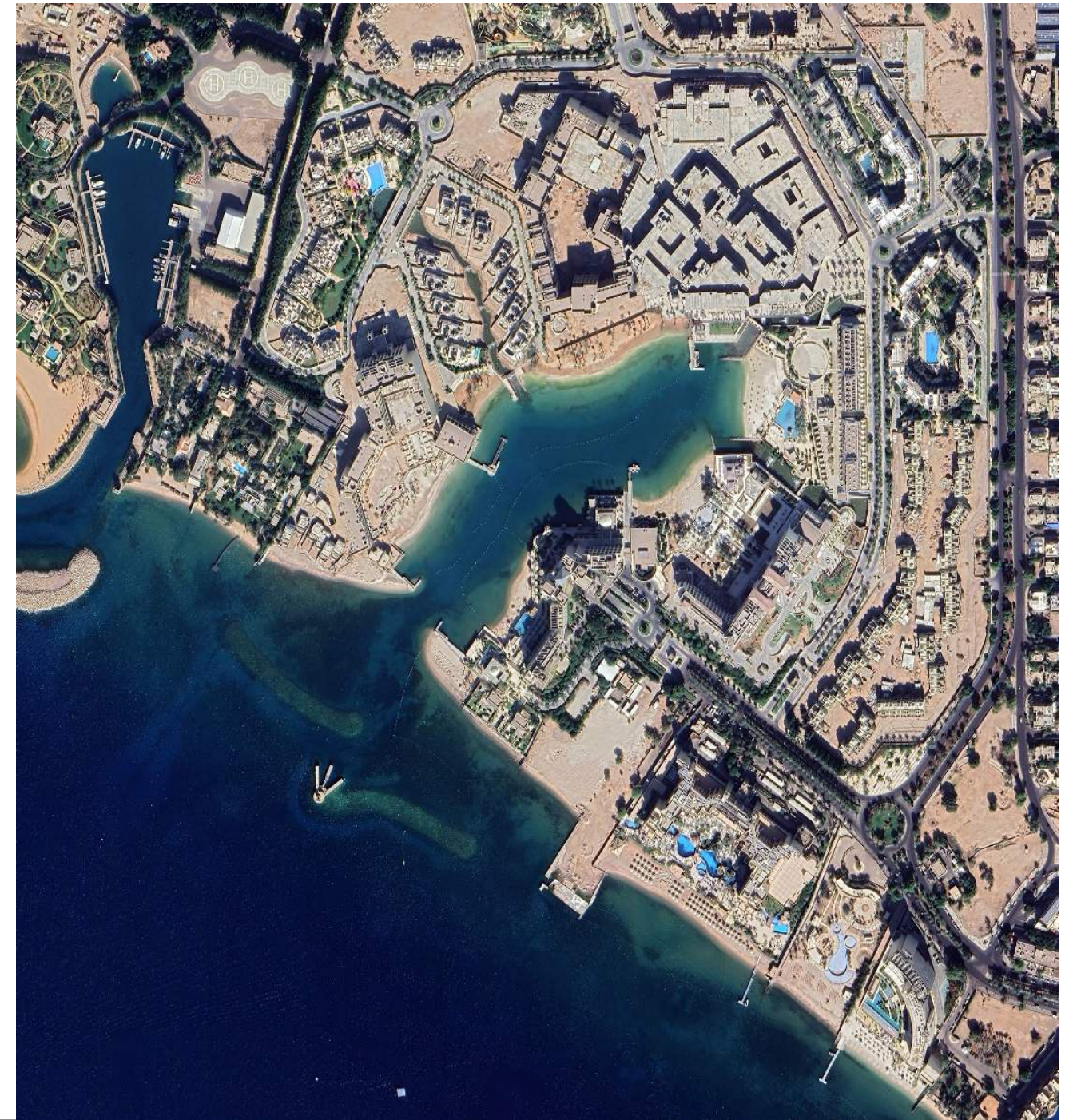
Consultant SEATEC sarl

Saraya Aqaba

Year 2006
Conceptual Design

- Marine infrastructure design
- Sandy beach design
- Retaining structures and shore protection (Diaphragm walls, sloped rocky protection, sheet piles...)
- Slipway
- 2 Submerged Breakwaters for lagoon protection (165m and 170m length)
- Drawings

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



Saraya Aqaba

Year 2007
Conceptual Design

- Method statement for Submerged Breakwaters construction
- Navigation aids at lagoon entrance
- Quaywall at entrance
- Lighthouse foundation
- Water taxi berthing configuration and navigation inside lagoon
- Drawings

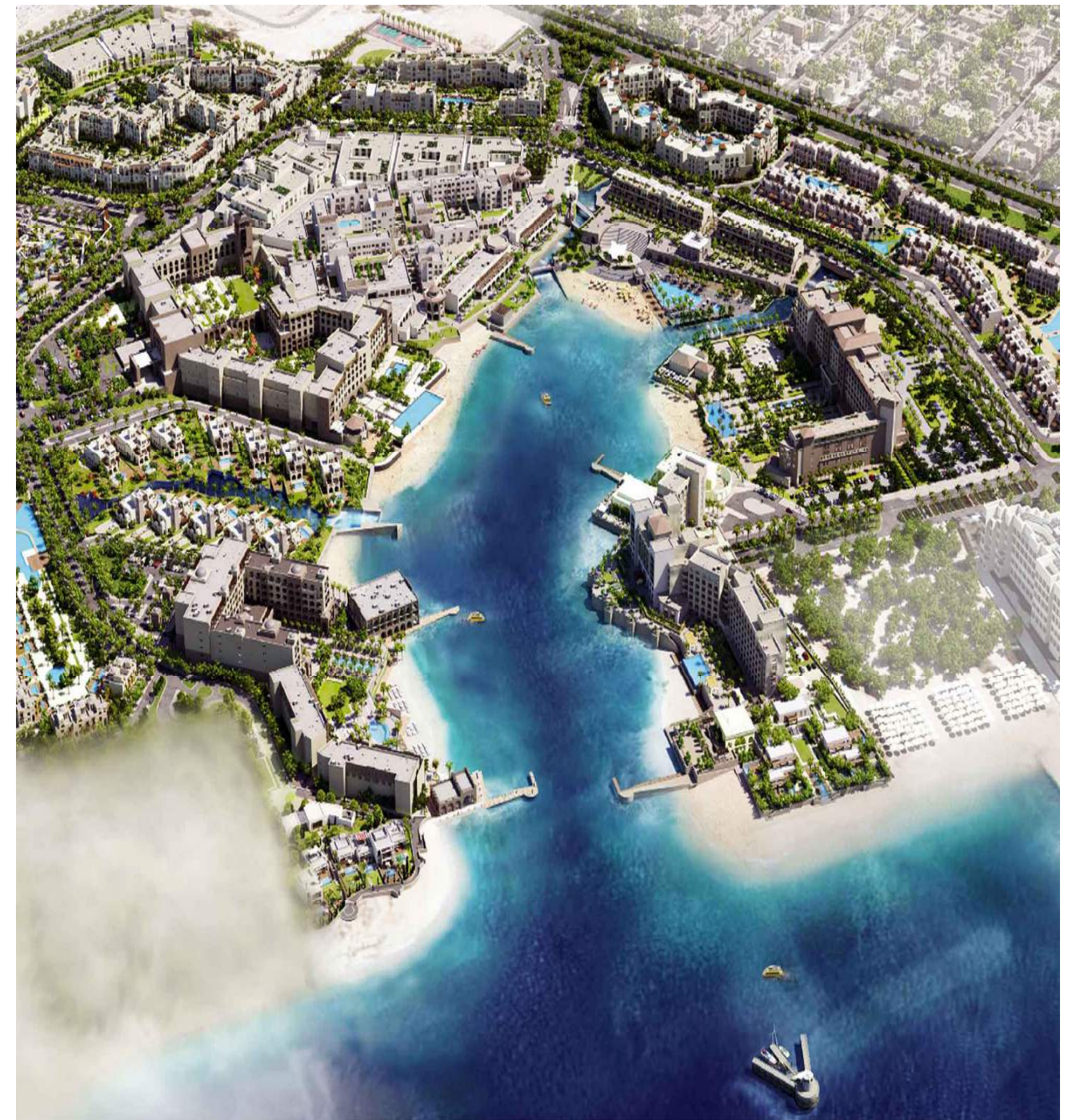
Year 2008
Conceptual Design

- Lighthouse foundation
- Drawings

Year 2010 – 2011
Design

- Piles and sheetpiles design
- Drawings

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



MINA WATERFRONT DEVELOPMENT

38

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

Location LEBANON – Mina / Tripoli
34°26'46" N
35°48'44" E

Consultant SEATEC sarl

Mina waterfront development

Year 2006
Design / Surveying

- Main Breakwater (T Shape, Rubble Mound type, L=250m @max -5.00m MSL) with rocky armor layer
- Top RC slabs (2,000m²)
- Quaywall (L=40m @-3.00m) / Precast concrete blocks (Gravity QW)
- RC platforms (370m²)
- Topographic survey
- Bathymetric survey (60,000m²)
- Tender Documents / Drawings / BoQ

Waterfronts / Coastal Protections / Revetments / Surveying



TUNISIA COAST MANAGEMENT

39

Client CREOCEAN

Location TUNISIA

Consultant SEATEC sarl

Tunisia coast management

Year 2004 – 2005

Design / Surveying

- Drawings assistance for the management design of the Tunisian coast
- Tunisian coast
- Fishing Ports
- Marinas



Ports / **Waterfronts**

MINA WALKWAY COASTAL PROTECTION

40

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

Location LEBANON – Mina / Tripoli
34°26'46" N
35°48'44" E

Consultant SEATEC sarl

Mina walkway coastal protection

Year 2006
Design / Surveying

- Rocky Seawall (L=257m; H=3.65m) for the coastal protection of the walkway against erosion due to waves
- Underwater Concrete Foundation (Average H=2.00m)
- Topographic Survey
- Tender Documents / Drawings / BoQ



Ports / **Waterfronts** / Coastal Protections / Revetments / Surveying