We are a privately-owned Singapore-based marine and port operations and engineering design consultancy company. Our services include the following:

- Port Design Master Planning.
- Detailed Engineering Design of Marine Structures.
- Independent Engineering Advisor.
- Navigation and Hydrography Expert Advice.
- Supervision of Port and Jetty Construction.
- Technical and Operational Audit and Due-Diligence Verification.
- Project Management.
- Container Terminal Operations and Maintenance System.
- Review of Port Regulations.
- Technical Advisory for Public Private Ports Partnership.
- Port Community IT System Architecture Design.
- 3D Renderings and Animation.
- Port and Maritime Training and Education.
Global Maritime and Port Services Pte Ltd (GMAPS) was established in 2004 as a privately-owned Singapore-based port and marine operations and engineering design consultancy company. Its competencies include strategic and concept master planning; hydrography advice and service; Navigation expert advice; QP supervision of port and jetty construction; technical audit and due-diligence verification; project management; terminal operations and maintenance; front-end engineering design; detailed structural analysis; detailed engineering design; port and maritime training and education; independent engineering advisor; ship statutory inspections and surveys; review of port regulations; terminal operations and port community IT systems architecture designs and 3D renderings and animation.

GMAPS partners and senior staff were among a core group of PSA officers who developed the wharf facilities to facilitate the start of containerisation in Singapore as early as the 1970s, and who later carried on with creating new infrastructure which enabled the port to grow over four decades. Currently, well over 30 million TEUs of containers a year are handled across the PSA wharves. Singapore’s port is the world’s busiest, where a vessel new infrastructure which enabled the port to grow over four decades. Currently, well over 30 million TEUs of containers a year are handled across the PSA wharves. Singapore’s port is the world’s busiest, where a vessel

Management of Dredging and Reclamation Works
GMAPS full-time personnel have decades of experience in major reclamation projects. One of GMAPS’ key reclamation specialists is Er. R Bawajee. Some prominent projects managed by Mr. Bawajee include the Changi East reclamation for the Singapore international airport (2000 ha.), Pulau Tekong Besar (500 ha.), Sentosa Cove and various other Singapore islands.

Terminal Management
As part of a consortium, GMAPS has been engaged by the Building And Construction Authority to operate the Pulau Punggol Aggregate Terminal (PPAT). In its capacity as Berth Operator, GMAPS manages the terminal’s daily operations of receiving cargoes from bulk carriers and barges. GMAPS also provides facility management services for PPAT.

Regional Market Presence
GMAPS has been engaged by the Jurong Town Corporation to manage its import and storage of marine sand from distant sources. This entails monitoring vessel movements from loading site to discharge point using an in-house supported Electronic Information Management System, certifying sand quality and quantity and maintaining workplace safety and security.

Project Management
GMAPS team of professional managers and supervisors provide project management services for project cargo logistics, construction and installation of marine structures, warehousing and storage operations. GMAPS scope of services include the following:

- Site planning and management
- Monitoring and managing movements of vessels and barges
- 3D volumetric survey measurement on vessels
- Loading/discharging and storage/extraction of project cargo
- Calculation of vessel stability and lashing
- Vessel mooring supervision
- Surveys for navigational aids/mooring buoys
- Terminal management & Facilities management
- Maritime safety and security

Management of Sand Deposition Sites
GMAPS has been engaged by the Jurong Town Corporation to manage its import and storage of marine sand from distant sources. This entails monitoring vessel movements from loading site to discharge point using an in-house supported Electronic Information Management System, certifying sand quality and quantity and maintaining workplace safety and security.

Management of Project Cargo and Heavy Lift Operations
GMAPS team of Master Mariners are well qualified in planning the loading, discharging and lashing of project cargo and heavy lifts, including calculations of vessel stability.

GMAPS is registered with the Asian Development Bank as a consultant body. It has also achieved bizSAFE Enterprise Level 2 from the Workplace Safety and Health Council. A Celbi Trading partner, it has also received ISO 9001:2015 and OHSAS 18001 : 2007 certifications. It is an associate member of the International Association of Ports and Harbors(IAPH).

SENior PARTNeRS:

Executive Chairman: GOON Kok Loon
Port management & operations specialist with over 40 years international work experience including mergers and acquisitions, and greenfield port developments. Former Deputy Group President, PSA Corporation Ltd. and President of its International Business Division.

Executive Director: Capt. Wilson CHUA
Master Mariner. An expert in Hydrography and aids to navigation with over 45 years of experience in anchorages, traffic separation schemes and sea space management. Former Singapore Chief Hydrographer.

Executive Director: L. K. SHERI
Specialist in developing Maritime and Port Regulatory Legal Frameworks. Former Chief Legal Officer, Maritime and Port Authority of Singapore.

Managing Director: Capt. James FONG
Extra Master Mariner. Specialist with decades of experience in managing, operating and controlling navigation, port and marine operations. Former Singapore Port Master.

R BAWAJEE
Executive Director
Registered Professional Engineer. Specialist in Construction and Contract Management with over 35 years in managing international marine construction and land reclamation projects including soil improvement works.

Andrew Lee
Director, Operations
Andrew joined GMAPS as an Assistant Operations Manager in 2008 and held various managerial positions before rising to the position of Director Operations. Andrew possesses a Diploma in Maritime Studies from Singapore Polytechnic and a Bachelor’s degree in Maritime Studies from Australian Maritime College, University of Tasmania. He is a certified DWS, SPS and ISO 9002 Marine Auditor, having performed audits onboard chemical and gas carriers. He sailed onboard oil tankers and oil spill experience working in container ports in Singapore and the Asia-Pacific. He has over 10 years’ experience managing marine projects.

Amy TEO
General Manager, Operations
Amy joined GMAPS as an Operations Analyst in 2009 and held various managerial positions prior to taking on the role of General Manager, Operations. Amy possesses a Diploma in Computer Engineering from Temasek Polytechnic, a Bachelor’s degree with honours in Computer Engineering from University of Manchester and a Postgraduate Diploma in International Business from University of Salford. She has nearly 10 years’ experience managing marine projects such as land reclamation and vessel terminal management.

MANAGEMENT TEAM:

Amy joined GMAPS as an Operations Analyst in 2009 and held various managerial positions prior to taking on the role of General Manager, Operations. Amy possesses a Diploma in Computer Engineering from Temasek Polytechnic, a Bachelor’s degree with honours in Computer Engineering from University of Manchester and a Postgraduate Diploma in International Business from University of Salford. She has nearly 10 years’ experience managing marine projects such as land reclamation and vessel terminal management.
Licensing Regulations, GOP, Bahrain

Similar services were also provided to the General Organisation of Sea Ports (GOP), Kingdom of Bahrain in line with GOP’s aim to regulate, develop and promote the Kingdom’s maritime and logistics industries by applying international standards and optimising all opportunities for GOP’s clients.

Regulations Review, Port of Owendo, Gabon

In 2010, the Cabon Ports Authority (CPA) appointed GMAPS to review and enhance the Regulatory Framework of Cabon’s Port and Marine Services Facilities. The assignment was to review and refine the existing regulations, introduce similar and consistent regulations for identified port and marine services and facilities which were not covered by any specific set of regulations, develop and implement a set of standard operating procedures that will enable CPAs personnel to efficiently regulate and supervise the industry.

Training & Development Services

GMAPS draws its strength from its senior practitioners who have had long standing associations with world-class ports, shipyards and government organisations. They have the expertise, in-depth knowledge and experience in maritime and port industries.

GMAPS has developed and conducted a wide range of specialised courses for the maritime industry in Singapore and internationally. It provides:

- Quality training in nautical concepts and maritime skills
- Training in port and logistic operations and management
- Port financial analysis
- IMO & ILO Standards (eg. SOLAS, STCW)
- Training for merchant naval ratings
- Workplace safety and health
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- International Safety Management (ISM) Audits
- Training course for instructors (IMO MC 6.09)
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Port Regulations Review

GMAPS’ team of consultants has extensive experience in reviewing the governance and regulatory framework of ports and marine terminals activities and the provision of marine services. In particular, its executive Director, L.K. Sheri, had been responsible for the administration and updating of Singapore’s maritime legislation and regulations while he was with MPA. He was also involved in setting out the regulatory framework for the corporatisation of PSA Corporation and Jurong Port.

GMAPS provides consultancy services in:

- Reviewing port regulations and other legislation governing maritime activities;
- Drafting standard operating procedures for port authorities;
- Reviewing licensing structure for port facility providers and operators;
- Advising on compliance matters pertaining to international conventions such as MARPOL, IBS, SOLAS, STCW.

Our legal experts include the following:

- **L. K. SHERI**
  Executive Director
  Specialist in developing Maritime and Port Regulatory Legal Frameworks. Former Chief Legal Officer, Maritime and Port Authority of Singapore.

- **Gurcharanjot Singh HUNDAL**
  Principal Legal Counsel
  Over 20 years of legal experience. A specialist in corporate legal matters, legal consultant involved in DPC (FDIC) contracts for Renewable Energy (BOO/T and Turnkey) projects across different regulatory regimes in Asia and Europe.

- **FONG Kum Hor**
  Vice President/Senior Consultant
  Over 40 years of experience in ports and logistics sector, spearheading major projects in PSA. He was also Deputy General Manager for the Voltri Terminal Europa in Italy where he managed the greenfield terminal from 1997-2000.

Port & Marine Engineering Consultancy

GMAPS partners and senior staff have held senior managing and operating positions for many years in the erstwhile Port of Singapore Authority (PSA) and its successor organisations, the Maritime & Port Authority of Singapore and the PSA Corporation, as well as Singapore logistics companies. These consultants have carried out assignments for Government authorities and agencies as well as private sector clients in Singapore, Brunei, Bangladesh, Indonesia, Saudi Arabia, Bahrain, Panama, Sri Lanka, Thailand, Myanmar, Nigeria and United Arab Emirates.

GMAPS in-house engineering team specialises in:

- Marine Structures Design & Coastal Engineering
- Development of Port Master Plans & Feasibility Studies
- Harbour Design & Terminal Layout
- Shore Protection & Breakwaters Design
- Design of Jetties, Piers and Mooring Systems
- Dredging/Reclamation Design and Management
- Project Management & Contract Administration
- Marine Facilities Maintenance
- Met-Ocean Investigations.

Its core group of in-house engineers comprises the following:

- **LAW Kok Hwa**
  Senior Vice President
  Registered Professional Engineer. Civil Engineer with over 30 yrs of experience in planning and design of marine structures, site supervision and project management. Headed major development works to develop container terminals in Singapore and overseas ports owned and managed by PSA.

- **R. SARWATE**
  Executive Director
  Registered Professional Engineer. Specialist in Construction and Contract Management with over 40 years experience in managing international marine construction and land reclamation projects including site improvement works.

- **Franklin WUISAN**
  Senior Architect
  Over 25 years of experience in port construction project in Singapore, India, Yemen, Portugal, S Korea, Saudi Arabia and Japan.

- **Prashant HINGWIE**
  Senior Civil & Structural Engineer
  Over 5 years of experience in maritime projects involving analysis, design and conceptual planning for port and harbour developments.

GMAPS scope of work includes detailed market study and competitive analysis, highway and marine traffic studies, detailed terminal layout plans and engineering design for the wharf and terminal infrastructure.
GMAPS’ PPP transaction advisory team have extensive experience in PPP Business Modelling and PPP Advisory from Planning to Award.

GMAPS provides consultancy in:

- Identifying, selecting and approaching suitable candidates for the port sub-concession;
- Developing financially viable PPP models including the concession terms and Joint-Venture arrangements;
- Developing & preparing Expression of Interest (EOI), Project Information Document (PID) and Request for Proposals (RFP);
- Organizing Road show and site show around;
- Receiving, evaluating and ranking bids

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Senior Consultant
Over 20 years of accumulated experience of inter-disciplinary practice across a number of countries. Accumulated skillset includes quantitative data analysis, market forecast modelling, business strategy analysis, market research, legal document and commercial presentation drafting.

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Over 20 years of legal experience. A specialist in corporate legal matters, legal consultant involved in EPC (FIDIC) contracts for Renewable Energy (BOOT and Turnkey) projects across different regulatory regimes in Asia and Europe.

PPP Advisory from Planning to Award

PPS Advisory Team:

Senior Consultant: George
Principal Legal Counsel: Gurcharanjit Singh HUNDAL

PPP Business Modeling

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WONG Siew Chuang  
Vice President/Senior Consultant
Port Economist with more than 40 years experience in port and shipping industry. Former Deputy Research Manager of PSA Corporation Ltd. He worked at Drewry Shipping Consultants before joining GMAPS in 2013. While in GMAPS he spearheaded numerous port consultancy projects for clients in China, Indonesia, Thailand, Vietnam, Korea, Cambodia, Myanmar, Japan, Qatar, Oman, Guinea in West Africa, Madagascar, Nigeria and Saudi Arabia.

FONG Kum Hor  
Vice President/Senior Consultant
Over 40 years of experience in ports and logistics sector, spearheading major projects in PSA and Warehouse Operations. He has managed the greenfield terminal from 1997-2000.

GMAPS senior consultants have extensive hands-on experience in designing port operations IT infrastructure and applications.

GMAPS provides consultancy services for:
- IT network design and specifications for terminal operations processes
- IT Systems architecture design for port community systems
- 3D renderings and animation.

Our IT experts include the following:

Veetu Ilayaraja  
Senior IT Manager/Project Manager
With more than 10 years of experience in managing both IT Infrastructure and Web Application projects. He has commissioned several IT infrastructure projects providing wired and wireless internet services covering high-rise properties and university campuses.

Sands Management Information System™
GMAPS developed a web-based proprietary (SAMIS)™ vessel location and cargo handling system to track and manage the voyage and movement of vessels from port of origin to final destination. With advance notification of the vessel’s ETA, GMAPS is able to plan and allocate berthing space according to vessel size and cargo type and quantity. Data mining and viewing of processes can be accessed on line 24/7 by clients and relevant authorities.

Bahrain Ship Registry Portal
GMAPS was engaged by the General Organisation of Ports (GOP), Kingdom of Bahrain to computerise and automate its transactions portal with its shipping community for its ship registry. GMAPS designed the system architecture of the Ship Registry Portal for GOP.

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Port Operations & Logistics Consultancy
GMAPS senior consultants have an average of 20 years of local and international experience in container terminal, general and bulk cargo operations and management, including warehousing and port logistics. They have worked in senior management positions in the former Port of Singapore Authority, PSA Corporation Ltd, Jurong Port, and the Maritime & Port Authority of Singapore.

GMAPS provides consultancy services in:
- Project feasibility studies
- Market competitive analyses and cargo volume projections
- Operation of ports, including container terminals
- Operation of multi-purpose ports, conventional general cargo, bulk cargo, car terminals
- Operation of passenger cruise terminals
- Audit of cargo terminal operations and maintenance procedures
- Port and terminal handling equipment user specifications and selection.

Our in-house port and container terminal operations/logistics experts include the following:

Mohd Mustapa Bin Haji Mohd
Vice President/Senior Consultant
Logistics Management and Warehouse Operations expert with extensive international experience particularly in Middle East. He also worked in PSA, handling both conventional and container operations before venturing into main core shipping handling operations and marketing.

Soon Soon Beng
Vice President/Senior Consultant (Port Finance)
Over 30 years of experience in financial modelling, cash flow projections and sensitivity analyses, with 15 years working in the Port of Singapore Authority. Worked abroad for several years in Yemen, Portugal and Pakistan.

Pong Kuek Hor
Vice President/Senior Consultant
Over 40 years of experience in ports and logistics sector, spearheading major projects in PSA. He was also Deputy General Manager for the Voltri Terminal Europa in Italy where he managed the greenfield terminal from 1997-2000.

Koh Ler Hian
Senior Consultant (Equipment)
Port equipment expert with more than 25 years of local and international experience dealing with the procurement and maintenance of all types of container and cargo handling machinery. Having worked in PSA for 13 years, he specializes in providing consultancy for preparation of tender specifications for port equipment.

Sands Management Information System™
GMAPS designed the system architecture of the Port IT System Architecture Design.
GMAPS senior staff are master mariners with several years of experience commanding foreign-going vessels. They are experts in their respective fields such as hydrography & bathymetry, safety of navigation, administration of vessel traffic movements (VTMS) and enforcement of port regulations.

Our senior consultants include the following:

GMAPS marine services include the following:

- Application of ISPS Code
- Hydrography advice and services
- Advice on STS & Bunkering Services
- Advice on handling of hazardous cargo
- Ship routing
- Navigation Expert Advice
- Navigation and Berthing Simulation studies
- Placement of appropriate aids to navigation
- Advisory on waterways, approach channels and anchorages
- Risk assessment.

Capt Mark GOH
Executive Director
Master Mariner. Sailed on various vessel types with NOL. Command experience on both container vessels and bulk carriers. Over 15 years of experience in the shipping industry. Project Director for marine operations.

Capt TEOH Woi Khon
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- Reviewing licensing structure for port facility providers and operators;
- Advising on compliance matters pertaining to international conventions such as MARPOL, ISPS, SOLAS, STCW.

Our legal experts include the following:

L. K. SHERI
Executive Director
Specialist in developing Maritime and Port Regulatory Legal Frameworks. Former Chief Legal Officer, Maritime and Port Authority of Singapore.

Gurcharanjit Singh HUNDAL
Principal Legal Counsel
Over 20 years of legal experience. A specialist in corporate legal matters, legal consultant involved in DPC (FDIC) contracts for Renewable Energy (BOO/T and Turnkey) projects across different regulatory regimes in Asia and Europe.

GMAPS partners and senior staff have held senior managing and operating positions for many years in the erstwhile Port of Singapore Authority (PSA) and its successor organisations, the Maritime & Port Authority of Singapore and the PSA Corporation, as well as Singapore logistics companies. These consultants have carried out assignments for Government authorities and agencies as well as private sector clients in Singapore, Brunei, Bangladesh, Indonesia, Saudi Arabia, Bahrain, Panama, Sri Lanka, Thailand, Myanmar, Nigeria and United Arab Emirates.

GMAPS in-house engineering team specialises in:
- Marine Structures Design & Coastal Engineering
- Development of Port Master Plans & Feasibility Studies
- Harbour Design & Terminal Layout
- Shore Protection & Breakwaters Design
- Design of Jetties, Piers and Mooring Systems
- Dredging/Reclamation Design and Management
- Project Management & Contract Administration
- Marine Facilities Maintenance
- Met-Ocean Investigations.

Its core group of in-house engineers comprises the following:

LAW Kok Hwa
Senior Vice President
Registered Professional Engineer. Civil Engineer with over 30 yrs of experience in planning and design of marine structures, site supervision and project management. Headed major development works to develop container terminals in Singapore and overseas ports owned and managed by PSA.

R. BAWAJEE
Executive Director
Registered Professional Engineer. Specialist in Construction and Contract Management with over 40 years experience in managing international marine construction and land reclamation projects including soil improvement works.

Franklin WUISAN
Senior Architect
Over 25 years of experience in port construction project in Singapore, India, Yemen, Portugal, S Korea, Saudi Arabia and Japan.

Prashant HINGWE
Senior Civil & Structural Engineer
Over 5 years of experience in maritime projects involving analysis, design and conceptual planning for port and harbour developments.

Market Study, Master Plan and Engineering Design, Bangkok Port Terminal 3
Global Maritime and Port Services Pte Ltd (GMAPS) was established in 2004 as a privately-owned Singapore-based port and marine operations and engineering design consultancy company. Its competencies include strategic and concept master planning; hydrography advice and service; Navigation expert advice; QP supervision of port and jetty construction; technical audit and due-diligence verification; project management; terminal operations and maintenance; front-end engineering design; detailed structural analysis; detailed engineering design; port and maritime training and education; independent engineering advisor; ship statutory inspections and surveys; review of port regulations; terminal operations and port community IT systems architecture designs and 3D renderings and animation.

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**Project Management**

GMAPS team of professional managers and supervisors provide project management services for project cargo logistics, construction and installation of marine structures, warehousing and storage operations. GMAPS scope of services include the following:

- Site planning and management
- Monitoring and managing movements of vessels and barges
- 3D volumetric survey measurement on vessels
- Loading/discharging and storage/extraction of project cargo
- Calculation of vessel stability and lashing
- Vessel mooring supervision
- Surveys for navigational aids/mooring buoys
- Terminal management & Facilities management
- Maritime safety and security

**Management of Sand Deposition Sites**

GMAPS has been engaged by the Jurong Town Corporation to manage its import and storage of marine sand from distant sources. This entails monitoring vessel movements from loading site to discharge point using an in-house supported Electronic Information Management System, certifying sand quality and quantity and maintaining workplace safety and security.

**Management of Project Cargo and Heavy Lift Operations**

GMAPS team of Master Mariners are well qualified in planning the loading, discharging and lashing of project cargo and heavy lifts, including calculations of vessel stability.

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**Management of Dredging and Reclamation Works**

GMAPS full-time personnel have decades of experience in major reclamation projects. One of GMAPS key reclamation specialists is Mr. R Bawajee. Some prominent projects managed by Mr. Bawajee include the Changi East reclamation for the Singapore international airport (2000 ha.), Pulau Tekong Besar (500 ha.), Sentosa Cove and various other Singapore islands.

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**Terminal Management**

As part of a consortium, GMAPS has been engaged by the Building And Construction Authority to operate the Pulau Punggol Aggregate Terminal (PPAT). In its capacity as Berth Operator, GMAPS manages the terminal’s daily operations of receiving cargoes from bulk carriers and barges. GMAPS also provides facility management services for PPAT.

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GMAPS collaborates with specialist professionals to apply the combined experience to work with clients to master plan and develop state-of-the-art facilities and operating infrastructure.

GMAPS is registered with the Asian Development Bank as a consultant body. It has also achieved bizSAFE Enterprise Level 2 from the Workplace Safety and Health Council. A GeBiz Trading partner, it has also received ISO 9001:2015 and OHSAS 18001 : 2007 certifications. It is an associate member of the International Association of Ports and Harbours(IAPH).

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**GMAPS partners and senior staff**

- **Executive Chairman:** GOON Kok Loon
  - Port management & operations specialist with over 40 years international work experience including mergers and acquisitions, and greenfield port developments. Former Deputy Group President, PSA Corporation Ltd. and President of its International Business Division.

- **Executive Director:** Capt. Wilson CHUA
  - Master Mariner. An expert in Hydrography and aids to navigation with over 45 years of experience in anchorages, traffic separation schemes and sea space management. Former Singapore Chief Hydrographer.

- **Executive Director:** L. K. SHERI
  - Specialist in developing Maritime and Port Regulatory Legal Frameworks. Former Chief Legal Officer, Maritime and Port Authority of Singapore.

- **Managing Director:** Capt. James FONG
  - Extra Master Mariner. Specialist with decades of experience in managing, operating and controlling navigation, port and marine operations. Former Singapore Port Master.

- **Managing Director:** Andrew Lee
  - Master Mariner. Sailed on various vessels types with NOL. Command experience on both container vessels and bulk carriers. Over 15 years in the shipping industry.

- **Executive Director:** Capt. Mark GOH
  - Master Mariner. Sailed on various vessels types with NOL. Command experience on both container vessels and bulk carriers. Over 15 years in the shipping industry.

- **General Manager, Operations:** Amy TEO
  - Amy joined GMAPS as an Operations Analyst in 2009 and held various managerial positions prior to taking on the role of General Manager, Operations. Amy possesses a Diploma in Computer Engineering from Temasek Polytechnic, a Bachelor's degree with honours in Computer Engineering from University of Manchester and a Postgraduate Diploma in International Business from University of Salford. She has nearly 10 years experience managing marine projects such as land reclamation and vessel terminal management.
We are a privately-owned Singapore-based marine and port operations and engineering design consultancy company. Our services include the following:

- Port Design Master Planning.
- Detailed Engineering Design of Marine Structures.
- Independent Engineering Advisor.
- Navigation and Hydrography Expert Advice.
- Supervision of Port and Jetty Construction.
- Technical and Operational Audit and Due-Diligence Verification.
- Project Management.
- Container Terminal Operations and Maintenance System.
- Review of Port Regulations.
- Technical Advisory for Public Private Ports Partnership.
- Port Community IT System Architecture Design.
- 3D Renderings and Animation.
- Port and Maritime Training and Education.