

Global Maritime and Port Services Pte Ltd

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

- Strategic and Concept Port Master Planning.
- Front-End Engineering Design.
- Detailed Structural Analysis.
- Detailed Engineering Design.
- Independent Engineering Advisor.
- Port and Maritime Training and Education.
- 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.
- Review of Port Regulations.
- Terminal Operations IT Network Design.
- Port Community IT System Architecture Design.
- 3D Renderings and Animation.









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.

SENIOR PARTNERS:



Executive Chairman: GOON Kok LoonPort management & operations specialist with over 38 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 CHUAMaster 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.

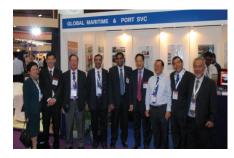


Executive Director: L. K. SHERISpecialist in developing Maritime and Port
Regulatory Legal Frameworks. Former Chief
Legal Officer, Maritime and Port Authority of
Singapore.



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.

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 enters or leaves the port limits every 3 minutes. These officers also ventured regionally and into China, the Middle-East, India and Europe.



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 achieved the bizSAFE Enterprise Level 2 from the Workplace Safety and Health Council, a GeBiz trading partner it has also received the

ISO 9001:2008 certification for its Management Systems. It is an associate member of the International Association of Ports and Harbors (IAPH).











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 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 35 years in managing international marine construction and land reclamation projects including soil improvement works.



TEO Woon Hun Senior Associate Consultant

20 years of experience in port engineering, covering project and contract management, operations, maintenance, training quality and safety. In the 1990's, he was responsible for the maintenance of all mobile and port equipment in Brani Terminal, in 1998, He was the Regional Manager for Voltri Terminal Europa in Genoa, Italy and the Operations Manager of PSA in 2001, taking over PSA's Labour supply contracts, etc. He is currently the de-facto CEO of Infinops Pte Ltd since 2004.



KOH Ler Hian Senior Consultant Engineering

Over 23 years of experience in container handling equipment covering maintenance, projects and equipment valuations. In 1991's, he was responsible for the successful implementation of PSA CITOS System(Hardware). In 1999, he was the Engineering Manager for PSA Muara Container Terminial In Brunei. He has worked in Singapore and oversea ports owned and managed by PSA in Brunei, China, Mediterranean and Middle East. Also worked in Malaysia and Indonesia.



Jayce TANG Senior Engineer/Project Manager

Over 10 years of experience in engineering, architectural structural designs and project management. She has been involved in site supervision, determining project specifications, matching design with customer requirements, and preparing cost estimates.



POH Khian Meng Engineering Manager

More than 8 years of professional experience as a civil engineer. He has been involved in projects such as MRT Stations, jetties, wharves, bridges and civil work projects from design to providing construction support, site supervision and management. Detailed design experiences include reinforced concrete and steelwork designs.



Amara Krishna KISHOR Senior Maritime Engineer

Over 4 years of experience in port and maritime engineering projects involving design calculations and geotechnical investigation.



Franklin WUISAN Senior Architect

Over 23 years of experience in port buildings and projects in Singapore, India, Yemen, Portugal, S Korea, Saudi Arabia and Japan



Prashant HINGWE
Civil & Structural Engineer

Over 4 years of experience in maritime projects involving analysis, design and conceptual planning for port and harbour developments.



Beh Yoong Yoong Civil/Structural Engineer

Over 5 years of experience in structural design & involved in design of jetties, dolphins, offshore structures and onshore steel structure within the petrochemical plant.

Engineering Projects Gallery

GMAPS wholly-owned subsidiary, **GMAPS Engineering Services Pte Ltd (GES)**, is registered with the Professional Engineers Board of Singapore. The Directors of the company include registered Professional Engineers, Law Kok Hwa and R Bawajee, who each has more than 30 years of extensive worldwide engineering experience.

Port Detailed Engineering Design Jazan Economic City Port, Saudi Arabia Client: Jazan Economic City Co. Ltd. (JEC)



Independent Advisor and Technical Consultant for Italian-Thai Development, Dawei Sea Port and Special Economic Zone Project, Myanmar



Port Upgrade and Expansion Laem Chabang Port Phase 3 Development, Thailand Client: Port Authority of Thailand



Tender Design, King Abdul Aziz Port Second Container Terminal, Dammam, Saudi Arabia Client: Hyundai Engineering & Construction Co. Ltd.



Engineering Design and Tender Management Inland Port, Taliabu Island, Maluku, Indonesia Client: Salim Wanye (Shanghai) Enterprise Group Co.



Project Management, including Obtaining Approvals, Tender Management and Construction Supervision, Marine Jetty and Offshore Supply Base, Loyang, Singapore Client: TOLL Offshore Petroleum Services



Port Operations & Logistics Consultancy

GMAPS senior consultants have an average of 20 years of experience in container terminal, general and bulk cargo operations and management, including warehousing and port logistics, both Internationally and in Singapore, having worked in senior management and policy setting levels and in operational levels in PSA, PSA Corporation Ltd, Maritime & Port Authority of Singapore and Jurong Port.

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 MUSTAFA 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.



Frederick SU
Vice President/Senior Consultant

Extensive knowledge and experience in all facets of Conventional, Container and Car Terminal Operations during his 29-year career with PSA and abroad. His overseas experience involved port planning, development and start-up of ports in Africa and India.



Mel SNG Vice President/Senior Consultant

Over 15 years of experience as a supply chain & logistics management and investments specialist in Jurong Port, CWT Distribution and other companies in South & South East Asia, China and Europe. In Jurong Port, he led a team for the feasibility and due diligence studies for a major multi-purpose port investment initiative in China.



Eugene TAN
Vice President/Sr. Gen Manager/Projects

A Port Development Expert with over 15 years of experience in Singapore, South-East Asia and Africa. Extensive experience in Terminal Operations and Logistics with oversight management of seven operational ports and terminals in South East Asia, Africa and the Mediterranean regions.



Francis TAN Choon Meng Asst Vice President/Consultant

Logistics professional with background in transportation and logistics, project management and customer relationship management. He was also involved in warehousing, logistics management and operations, project management process improvements, as well as providing customer service support.



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.



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 in the Port of Singapore Authority. Worked abroad for several years in Yemen, Portugal and Pakistan.



WONG Siew Chuang Vice President/Senior Consultant

Port Economist with nearly 40 years of experience in feasibility studies and traffic forecasting with extensive knowledge of container port demand.



Nizam Abdul GHAFAR Project Manager

Over 13 years of experience helping to set up the container terminal in Jurong Port. With expert knowledge and experience in container terminal operations and in managing projects.



ZHOU Ting Project Manager

Certified Project Management Professional (PMP). Experienced in organisational project management office for consultancy projects.

Port Operations Projects Gallery



Roadmap for Operations and Redevelopment of Bo Aung Kyaw Terminal, Yangon, Myanmar Client: Nilar Yoma Trading Co. Ltd

Assessment of existing port facility in Yangon to enable client to bid for the lease concession and operate the terminal.



Port Logistics Efficiency And Productivity Study, Bangladesh Client: Asian Development Bank

Feasibility study on improving the logistics efficiency and productivity for Mongla port and Benapole inland port in Bangladesh.



Enhancing Container Freight Station Capacity & Operations Efficiency, India Client: Gateway Distriparks.

Assessment on current operations of designated ICD in Mumbai, India. Identify, define and recommend areas for improvements in process efficiency so as to enhance capacity.



Terminals Process Mapping and Re-engineering, Sharjah Client: Sharjah Ports Authority.

Process mapping and analysis, benchmark and identify gaps, re-engineering port operations and management training for Ports Khalid, Hamriyah and Khorfakkan of the Sharjah Ports Authority.



Business Model Study for Doha New Port Project, Mesaieed Doha Qatar Client: Qatar Ports Management Company

Study of the New Port's market and competitive position in relation to regional ports. Develop a comprehensive strategy to formulate a suitable business model to manage the New Port. Identify suitable terminal operator.



Feasibility Study To Develop an International Hubb Port, Nantong, China Client : Keppel T&T

Technical, commercial and financial viability study for investment in the development of an international container hub port on the reclaimed land in the Nantong - Tonghai area.

Marine Services Consultancy

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.

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 routeing

Our senior consultants include the following:



Capt Wilson CHUA Executive Director

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.

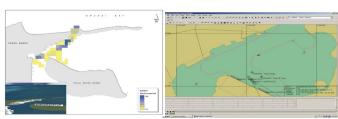


Capt Mark GOH Executive Director

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 Manager for marine operations.



Navigation Impact Assesment of Shipyard Wharf Extension



Navigation and Traffic Impact Assessment Studies for Development of Pulau Muara Besar, Brunei



Navigation Expert Advice

- Navigation and Berthing Simulation studies
- Placement of appropriate aids to navigation
- Advisory on waterways, approach channels and anchorages
- Risk assessment.



Capt James FONG Managing Director

Extra Master Mariner. Specialist with decades of experience in managing, operating and controlling navigation, port and marine operations. Former Singapore Port Master.



Capt TEOH Woi Khon Senior Consultant

Master Mariner. Command experience on general cargo and container vessels. Over 30 years of experience in the shipping industry. Former PSA Container Terminal Ship Planner. Senior Consultant for marine operations.



Initial feasibility study for Indian Ocean Cargo and Passenger Ferry Service covering Male-Colombo and Male-Trivandrum routes Client: South Asia Regional Economic Cooperation







nternational Ship and Port Facility Security Code (ISPS)



Port IT System Architecture Design

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:



ANG Hock Bin IT Manager/Consultant

More than 20 years of experience in IT industry. Experience in financial, distribution and manufacturing applications, project management for custom development and package implementation, as well as infrastructure set up and maintenance, ERP Systems, design and development of Windows and web applications. In-depth knowledge of IT infrastructure including server administration, desktop support as well as VPN deployment and maintenance.



Velu ILAYARAJA Senior IT Manager/Project Manager

With more than 10 years of experience in managing both IT Infrastructure and Web Application projects. Has commissioned several IT infrastructure projects providing wired and wireless internet services covering high-rise properties and university campuses.

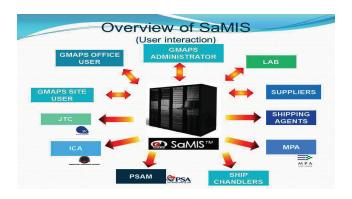


Sivakumar NALLATHAMBI IT Manager

Over 5 years of experience in Administration and Development of Information Systems, including managing large data center and clustered systems environment. Implemented, installed and supported High Availability (HA) cluster on IBM series and migration Linux servers.

Sands Management Information System ™

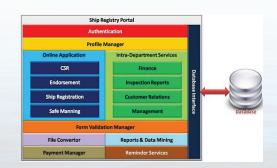
GMAPS developed a web-based proprietory (SAMIS) ™ vessel location and cargo handling system to track and manage the voyage and movement of vessels from port of origin to final destination. With advance notification of the vessel's ETA, GMAPS is able to plan and allocate berthing space according to vessel 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.





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, LK 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, 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



Gurcharanjit Singh HUNDAL
Senior Legal Counsel

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.

Regulations Review, Port of Owendo, Gabon

In 2010, the Gabon Ports Authority (GPA) appointed GMAPS to review and enhance the Regulatory Framework of Gabon'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 GPA's personnel to efficiently regulate and supervise the industry.

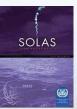
Licensing Regulations, GOP, Bahrain

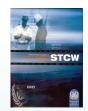
Similar services were also provided to the General Organisation of Sea Ports (GOP), Kingdom of Bahrain in line with GOP's aim to regulate, develop and promote the Kingdom's maritime and logistics industrial zones by applying international standards and optimising all opportunities for GOP's clients.













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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- Cargo handling and stevedoring
- International Safety Management (ISM) Audits
- Maritime Convention 2006 (MLC)
- Training course for instructors (IMO MC 6.09) and IMDG.



MOHD MUSTAFA 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.



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.





ISO 9001:2008



SOME OF OUR KEY CLIENTS



















Department of Seaports & Customs

Sharjah Customs















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
- Volumetric measurements of cargo on vessel
- Loading/discharging and storage of project cargo
- · Calculation of vessel stability and lashing.



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 experience in the shipping industry. Project Manager for marine operations.

Management of Sand Deposition Sites

GMAPS has been engaged by Jurong Town Corporation to manage its import and storage of marine sand from distant sources. It manages the operations by controlling the vessels' traffic movements from loading site to discharge point. Its works inleude quality and quantity certification, workplace safety and security.

Sand Import and Deposition Project, Singapore





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.



Executive DirectorRegistered Professional Engineer. Specialist in Construction and Contract Management with over 35 years in managing international marine construction and land reclamation projects including



Changi Reclamation, Singapore

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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