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 Loon**
Port 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: 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.

**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.

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).
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.

XU Wenfeng  
Engineering Manager  
More than 10 years of civil and structural engineering experience in feasibility studies and engineering designs of civil infrastructure, marine and building works, tender documentation preparation, site supervision and project management in Singapore and overseas.

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.

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.

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.

Prashant HINGWE  
Civil & Structural Engineer  
Over 4 years of experience in maritime projects involving analysis, design and conceptual planning for port and harbour developments.

Himatej BONAGIRI  
Marine Structural Engineer  
Over 4 years of experience in structural design and stability analyses.
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 Bawaje, 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:

- **FONG Yue Kwong**
  Executive Director
  Former President of Jurong Port, Singapore. He has more than 33 years of experience in port management and operations and development of port and related logistics industries in Singapore and overseas, in particular China.

- **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.

- **Eugene TAN**
  Vice President/Sc. 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.

- **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.

- **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.

- **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.

- **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.

- **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.

- **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.

- **TAN Seng How Eddie**
  Project Manager
  Over 7 years of experience in liner operations & container terminal business development.

- **ZOOG Ting**
  Project Manager
  Certified Project Management Professional (PMP). Experienced in organisational project management office for consultancy projects.

GMAPS provides consultancy services in:
- Project feasibility studies
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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.

**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.

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

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.

Capt TEOH Woi Khon  
Senior Consultant  

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 TEOH Woi Khon  
Senior Consultant  

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

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

International Ship and Port Facility Security Code (ISPS)  
Feasibility Study on Ship Bunkering Business in the Port of Tanjung Priok
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 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.
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.
Capt. Ron VARDON  
Training Director  
Master Mariner with more than 50 years of experience. Harbour Master for the Port of Rangoon in 1968. Served as Principal of the Institute of Marine Technology. Also former Head of Nautical Studies and Maritime Transportation of Singapore Polytechnic. Experience includes International Safety Management Code and Quality Assurance Specialist in Lloyd's Register of Shipping.

Rina DHILLON  
Training Consultant  
A Chartered accountant with 8 years of corporate and academic experience in accounting and maritime field. Published two papers on business management tools and its localisation in organisations. Experience includes business management systems, quality management systems and financial analysis training.

ISO 9001:2008  
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  
- Cargo handling and stevedoring  
- International Safety Management (ISM) Audits  
- Maritime Convention 2006 (MLC)  
- Training course for instructors (IMO MC 6.09) and IMDG.

SOME OF OUR KEY CLIENTS

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- Maritime Convention 2006 (MLC)  
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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
- Volumetric measurements of cargo on vessel
- Loading/discharging and storage of project cargo
- Calculation of vessel stability and lashing.

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 include quality and quantity certification, workplace safety and security.

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.

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.