

# CAPABILITY STATEMENT

We **LIVE** Our Business



**M<sup>3</sup>**  
**MARINE**  
**2024**

# | INTRO MESSAGE

“Our clients value our astute commercial and operational acumen, up to date market knowledge and other synergies that we draw upon within the Group’s network of in-house technical and brokerage services. Through sharing of resources, assets and abilities, we strengthen and bolster the quality, depth and breadth of our services and provide the technical assurance, adaptability and flexibility required by our clients in the offshore marine and renewables space, over the course of a project.”



**CAPT. MIKE MEADE, CMMar FNI MICS**

CEO, M3 Marine Group

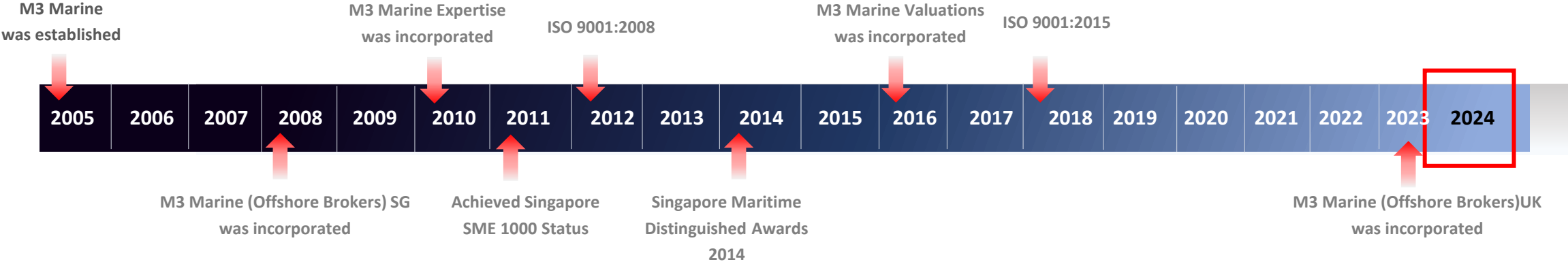
Executive Director, M3 Marine (Offshore Brokers) UK Ltd





# COMPANY OVERVIEW

Established in 2005 by **Capt. Mike Meade**, we pride ourselves as one of Asia's largest independent offshore ship broking and marine consultancy groups possessing the necessary qualities and capabilities to meet the growing local and international demand for specialised offshore marine & renewables services.





# | ABOUT OUR COMPANY

Based in Singapore, **M3 Marine Group** and its subsidiaries provide a comprehensive range of offshore marine and renewables services tailored to meet the needs of the offshore marine, oil & gas and renewables industries. With decades of relevant extensive multi-faceted experience, direct access to a vast network of operators, offshore and renewable vessel owners and shipyards and backed by a wide network of Associates in Europe, Asia, the Middle East and Australasia, we are committed to meeting the growing local and international demand for specialised marine services. Our respective diverse multi-disciplined teams of dedicated experienced professionals constantly interface with the market, possessing real and valuable experience in their respective fields.

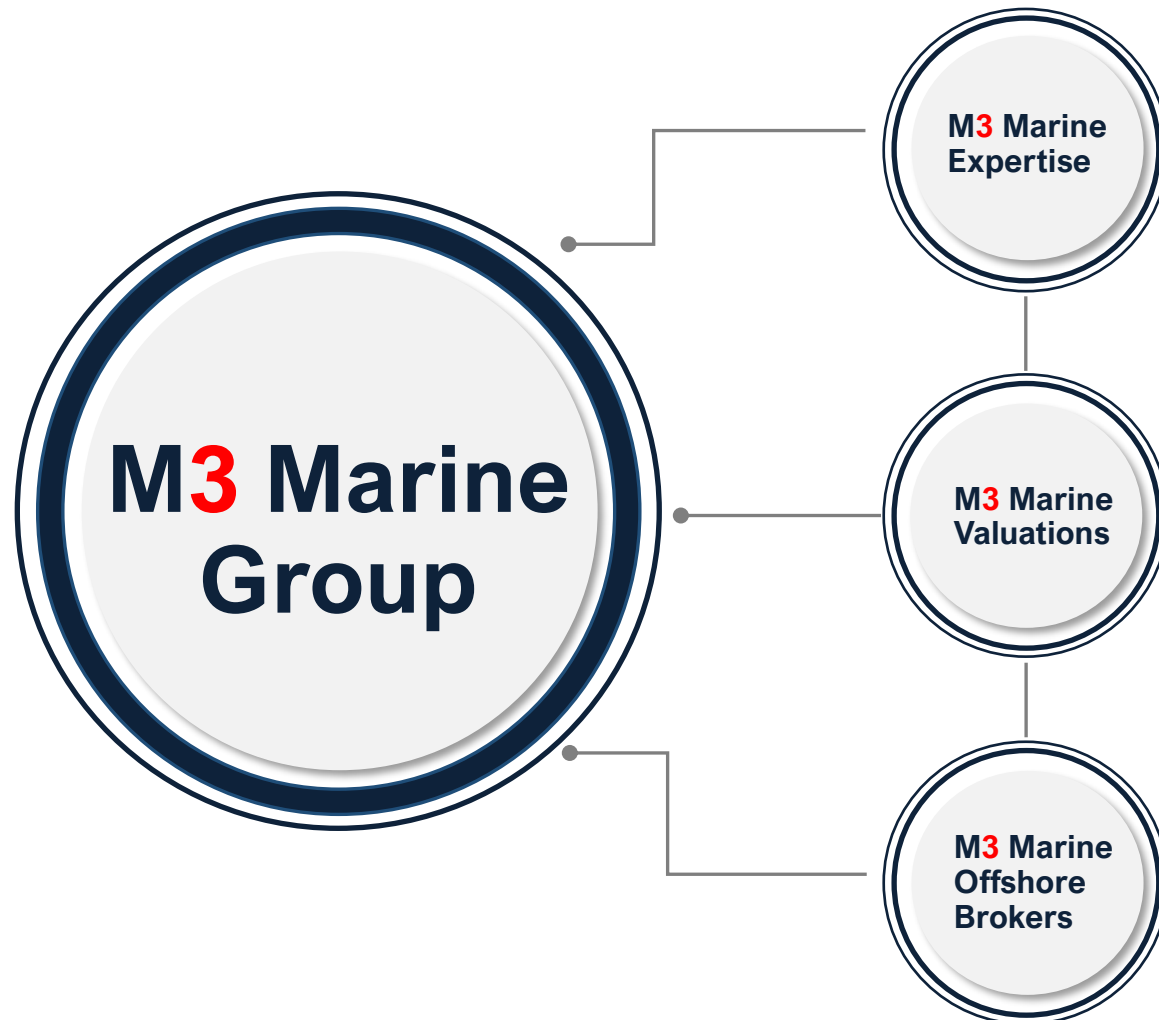
“As one of Asia’s largest independent multi-faceted offshore marine and renewables service providers, we truly believe in adding value where it matters.”

---





# | ABOUT OUR COMPANY



## M3 Marine Expertise

---

Provides technical & commercial / corporate consultancy services to the offshore marine and renewables business.

## M3 Marine Valuations

---

Provides vessels & equipment valuation services in the offshore marine, renewables and O&G sector.

## M3 Marine Offshore Brokers

---

Singapore and UK

Provides offshore ship broking services (time & bareboat charters, sales & purchase, new building) to the offshore marine and renewables business.

# | ABOUT OUR COMPANY



## M3 Marine Corporate Video



# | TEAM OF DIRECTORS (SG)



**CAPT. MIKE MEADE**  
CMMar FNI MICS  
Group CEO



**MARK COLBRIDGE**  
BEng (Hons), MBA  
Executive Director



**SOPHIA LOW**  
FICS  
Director & Lead Broker



**JOEY FISHER**  
IEng IMarEng MIMarEST, AVI  
Managing Director



**ALEX BRABIN**  
CEng CMarEng MIMarEST, AVI  
Projects Director

“As a Group, we focus on employing top quality professionals with high levels of operational experience together with a clear understanding of the standards required by end users. We have built a solid reputation and are known for providing prompt, quality and ‘added value’ service which has led to our success so far.”

Capt. Mike Meade, CMMar FNI MICS  
Founder & CEO



# | TEAM OF DIRECTORS (UK)



**CAPT. MIKE MEADE**  
CMMar FNI MICS  
Executive Director



**ROBERT DAY**  
BS, Biological & Biomedical Sciences  
Managing Director



**CHARLIE LONG**  
BS (Hons), Maritime Studies  
Director

“As a Group, we focus on employing top quality professionals with high levels of operational experience together with a clear understanding of the standards required by end users. We have built a solid reputation and are known for providing prompt, quality and ‘added value’ service which has led to our success so far.”

Capt. Mike Meade, CMMar FNI MICS  
Executive Director,  
M3 Marine (Offshore Brokers) UK Ltd

# PROFESSIONAL AFFILIATIONS



# | PRESENCE IN INTERNATIONAL PUBLICATIONS



maritimeCEO

PetroMin

riviera )))

Seatrade  
Maritime

SinoShip  
The Global Platform for Chinese Shipping

SPLASH24/7

International  
Tug & OSV  
INCORPORATING SALVAGE NEWS

Tugs  
Towing & Offshore Newsletter



# CORPORATE SOCIAL RESPONSIBILITY

At M3, we embrace the importance of Corporate Social Responsibility and strongly believe in continuously finding new means to give back to communities. We constantly participate in various charities and help groups to support the less fortunate and needy.

- Taal Volcano Eruption Relief Operations 2020
- OSV@ Vivo 2016
- Sailors Society Asian Challenge 2013 & 2015
- Nepal Earthquake Appeal 2015
- Sense Charity Golf 2014
- Batam International Charity (BIC) Golf Tournament
- SSA YEG Community Outreach
- Munda Biddi Charity Ride
- Visit to Lee Ah Mooi Old Age Home
- Cebu Bantayan Island Relief 2013
- Sailors Society - Typhoon Haiyan Emergency Appeal 2013
- Vanda Boxing for Children's Surgical Centre



# | COLLABORATIONS

In January 2014, M3 collaborated with Microsoft to put together a range of information showcasing the impact Office 365 has on the company.

Shot over 2 days in our offices and at ASL Marine's shipyard in Singapore, we produced a video that showed how Office 365 programs are an integral part of the way we work and function as an Offshore Brokerage and Technical Marine Consultancy.

Over the course of a month, we also put together a Blog Post which focuses on why Mike chose to run the company on Office 365 and what he liked about it.

Finally, a more in-depth Case Study was written elaborating on the Office 365's Business Tools that we rely heavily on and how we use it as a business platform for growth.



M3 Marine Office365 Video



# M3 Marine Offshore Brokers







# M3 MARINE OFFSHORE BROKERS

**M3 Marine (Offshore Brokers) SG** is one of Asia's largest independent offshore ship brokerage houses, incorporated in 2008 and a subsidiary company of the M3 Marine Group, situated in the 'hub' of marine activity in Singapore. In November 2023,

**M3 Marine (Offshore Brokers) UK** was established and will offer brokerage services for newbuilding, sale & purchase and chartering on a fully global basis out of its new London base.

- sourcing a comprehensive spread of offshore and renewables support vessels to meet your chartering and /or purchasing requirements
  - facilitating and 'adding value' to your prospective transactions
  - providing assistance in contract drafting translating into both time and cost savings
- 'staying with you' throughout the duration of the charter / sale / purchase / newbuilding process and maintain our commitment to facilitating the relationship between the parties and our client's objectives
  - using BIMCO's SMARTCON, a cloud-based charter party editing system, which protects the underlying text of edited documents so that both parties will always know exactly what amendments have been made to the standard wording;
  - playing a proactive role in ensuring 'FAIR' (IMCA) contracting principles are adhered to
  - having direct access to a vast network of offshore vessel owners, operators, financial institutions, shipyards, keen buyers and sellers
  - offering realistic rate guidance
  - having an excellent track record of satisfied clients and, as such, benefitting from a loyal customer base

# | OFFSHORE BROKERS TEAM (SG)



**MARK COLBRIDGE**  
Executive Director

**Mark Colbridge (BEng, MBA)** is a seasoned offshore expert with over 20 years of experience in the Subsea sector having held engineering and management positions within Offshore Contractors to Operators such as TSMarine, DOF Subsea, Swire Seabed and Oilexco.

He joined M3Marine as Executive Director heading up the brokerage division and will also work with various business entities within M3 to market and promote the Groups range of services.



**SOPHIA LOW**  
Director & Lead Broker

**Sophia Low (BEng), FICS** graduated from Nanyang Technological University in 2006 with a Bachelor in Materials Engineering. Being a dedicated and energetic individual, she first joined the oil & gas industry as a drilling engineer. Sophia has worked on offshore jack-ups to provide technical support to the drilling team, offshore based as a well design engineer. She joined M3 Marine as an offshore shipbroker armed with an in-depth knowledge of the upstream industry and understands the demands of the drilling fraternity. Her skills compliment the team dynamic for M3 Marine and she is determined to provide value-added ship broking services to M3 Marine client's.



# | OFFSHORE BROKERS TEAM (SG)



**MILI VERMA**

Broker

**Mili Verma BSc(Hons), MSc MICS** joined M3 Marine as a broker with a focus on sale and purchase transactions. She has a number of years of experience in commercial marine roles, covering various markets and vessel segments and within the offshore oil and gas industry. Mili previously worked with the MEO Group, Jaya Holdings (now MMA) and Marine Online - part of Brightoil Group. What makes Mili stand out as a well-rounded commercial person is her desire to learn, her ability to proactively network and her driven approach towards providing the best services.

Mili holds a master's degree (Distinction) in Shipping, Trade and Finance from Cass Business School, City University London, and is a member of Institute of Chartered Shipbrokers.



# | OFFSHORE BROKERS TEAM (UK)



**ROBERT DAY**  
Managing Director

**Robert Day (BSc)**, is Managing Director and Offshore Broker for M3 Marine (Offshore Brokers) UK Ltd (M3OBUK) and is focused on sale and purchase, chartering and newbuilding for all offshore vessel types.

Robert brings with him almost a decade of experience, having previously held the role of Associate Director and Head of Offshore at VesselsValue where he ran the offshore desk specialising in valuations, broking, market analysis and business development.

Roberts impressive breadth of knowledge and experience set him apart from many other brokers within the market and provide significant value to M3 Marine customers.



**CHARLIE LONG**  
Director

**Charlie Long (BSc)**, is an experienced Offshore Shipbroker and Market Analyst (Offshore Marine Asset Valuations) acting as a Director & Offshore Shipbroker for M3 Marine (Offshore Broker) UK Ltd.

Charlie's range of duties for M3 Marine (Offshore Brokers) UK Ltd encompass vessel Newbuilding, Sale and Purchase, Demolition and Chartering.

Throughout Charlie's career, he has diligently served as a broker for numerous clients, facilitating a substantial number of transactions, for Offshore Support and Construction vessels.

# | M3 MARINE OFFSHORE BROKERS

**M3 Marine Offshore Brokers (M3OB)** possess the commercial and technical knowledge and attributes to offer our valued Clients a spread of brokerage services for Newbuilding, Sales & Purchase and Chartering.

Our brokers are constantly interfacing with the market and gathering invaluable 'market intelligence' in this process. Our data are live, updated daily to bring across firsthand information to our clients and potential clients

## Chartering (Time & Bareboat)

### Types of vessels:

- AHT / AHTS / PSV
- DSV / ROVSV
- WTIV / SOV / CTV
- Barges
- Crew Boats / Fast Supply Boats
- Tugs (Harbour & Ocean going)
- Compact Semi Submersible
- Construction Support Vessels
- Landing craft (LCT)
- Safety Standby Vessels
- Heavy Lift Vessels
- Jackup Barges / Liftboats
- Survey / Utility Vessels
- Workboats / Workbarges

## Newbuilding

**M3OB** is actively involved in the entire **newbuilding process** – from the conceptualization of the vessel through to its delivery

### This process includes:

- vessel design
- vessel specification
- pre-qualification of shipyard
- bidding
- shipyard selection
- contract negotiation
- commercial closing
- vessel delivery

## Sale & Purchase

**M3OB** forges strong business relations with offshore & renewable vessel owners, financial institutions & numerous shipyards, thus we are always in the 'loop' of keen buyers & sellers

We are well-versed with the **market conditions** and **dynamics** of the S&P sector to match the right vessel to suit the job for the buyer without compromising the quality of the vessel being brokered



# M3 Marine Offshore Brokers

**PROJECT  
ILLUSTRATIONS**

# | M3 MARINE OFFSHORE BROKERS

The following projects have been selected of illustrating M3 Marine Offshore Brokers (M3OB)'s track record and commitments towards offering our valued Clients a spread of brokerage services for Newbuilding, Sales & Purchase and Chartering:

## Time Charter

### Jack Up Accommodation Rig – BURJ

<b>Job</b>	To provide accommodation & construction support at Bayu Undan Facility in the Timor Sea
<b>Duration</b>	Term Charter
<b>Charterer</b>	ConocoPhillips Australia
<b>Owner</b>	Millennium Offshore Services FZE

## Bareboat Charter

### Submersible Deck Cargo Barge – AMT Crusader

<b>Job</b>	Charter of 1 x Submersible Deck Barge
<b>Duration</b>	5 years charter
<b>Charterers</b>	Bibby Maritime
<b>End Client</b>	Chevron Australia – Gorgon
<b>Owner</b>	Augustea Marine Transportation

## New Building

### Subsea Operations Vessel – Windermere

<b>Job</b>	Brokerage on Newbuild SOV DP2
<b>Client</b>	Drydocks World Singapore
<b>Owner</b>	Hallin Marine

## Sale & Purchase

### AHTS – Jaya Affinity, Jaya Archer, Jaya Arctic & Jaya Armour

<b>Job</b>	Brokered 4 x 5150BHP Newbuild AHTS
<b>Client</b>	Jaya Shipbuilding
<b>End User</b>	Tidewater
<b>Design</b>	KCM Design





# | ILLUSTRATION 01

Project	Bayu Undan Offshore Facility
Vessel	Burj Jack Up Accommodations Rig 250 Pax
Charterer	ConocoPhillips Australia
Owners	Millennium Offshore Services / SeaFox Group
Period	2012 - 2014
Area	250km southwest of Suai in Timor-Leste and 500 km northwest of the Northern Territory in Australia

## Project Overview:

We brokered the rig 'Burj' to ConocoPhillips as an Accommodation Support Vessel (ASV) to support various logistical, materials handling and accommodation services required in Bayu Undan Offshore Facility in East Timor.

ConocoPhillips

SEAFOX





# ILLUSTRATION 02

Project	PTSC Lamson FPSO Mooring Installation
---------	---------------------------------------

Charterer	DOF Subsea
End User	Lamson JOC
Time	2013 -2014
Area	Offshore Vung Tau, Vietnam

Vessel Name	Specifications
-------------	----------------

Miclyn 3319; Magellan 2	Barge (100m, 15T/m2); 8,200BHP, 112.5TBP, FiFi 1
Go Capella; GO Hawk	10,872BHP, 142TBP, DP2; 6,000BHP, 78TBP, DP1

## Project Overview:

**Phase 1** - Q3 2013: Installation and pre-tensioning of 9 x 1.83m diameter 30m long Anchor pile c/w 500m-750m of 117m/130mm R3 studless mooring chain pre-tense load of 150Te)

**Phase 2** - Q2 2014: Tow out and hook up of FPSO PTSC **Lamson** including installation; Installation of two Mid Water Arches and gravity base, 5 flexible risers, 2 umbilicals and associated saturation diver tie-ins, leak testing and pre-commissioning



Magellan 2



Go Capella

# ILLUSTRATION 03

Project: IKDAM FPSO Phase 1 and 2	
Charterer	DOF Subsea/ Lundin
Period	2014- 2015
Area	Bertam Field, Malaysia
Project	IKDAM FPSO Phase 1 and 2

Vessel Name	Specifications
Lanpan 23	3,800BHP, 52TBP, FiFi 1/2
Miclyn 3317	Flat Top Deck Cargo Barge (100m, 15T/m2)
Kim Heng 280; Kim Heng 3203; Kim Heng 1300;	Barge (85m, 15T/m2); Tug (32m, 3,200BHP); Tug (23m, 1,300BHP)
Smit Lynx; Smit Andaman	Harbor Tug (60TBP); Barge (91m, 12T/m2)
Archon Tide; Boyd Tide	8,200BHP, 100TBP, DP2; 8,200BHP, 100TBP, DP2
POSH Persistence	12,240BHP, 150TBP, DP2
Pacific Vixen	8,810BHP, 120TBP, ABS1

## Project Overview:

We assisted **DOF Subsea** in both Phase 1 and 2 of the project. This includes equipment transportation with tugs and barge around Singapore, Batam, Bintan, Johor. In the later phase, we brokered **4 x AHTS** for the FPSO tow out from the shipyard in Singapore to Bertam Field, Malaysia. Vessels were used for the tow, heading control, escort duties.



Lanpan 23



POSH Persistence

# ILLUSTRATION 04

Vessel	Topaz Energy (ex-Britoil Energy) Topaz Endurance (ex-Britoil Power)
Specification	PX 121 H - 83.4 M LOA, 4,070 T DWT Platform Supply Vessel
Charterer	Topaz Energy & Marine
Period	2 years firm + 3 x 1 year extension options
Area	West Africa



## Project Overview:

M3 brokered a 2 + 2 year bareboat charter to Topaz Energy & Marine for two of **Ulstein's PX121 H** design platform supply vessel.

The Indonesian built **Topaz Energy & Topaz Endurance** will be working on various fields off Nigeria, West Africa commencing in Q1 2018.

In addition, our team from M3 Marine Remote Inspection undertook the aerial photography and videography of the vessels off Batam and Singapore waters.



# ILLUSTRATION 05

Project	MADURA FPSO Phase 1 and 2
---------	---------------------------

Charterer	Boskalis
Period	2016 – 2017
Area	Madura Strait East Java

Vessel Name	Specifications
-------------	----------------

Falcon Force	AWB (200T Crane, 424 Pax)
MP Prevail	AHTS 9,000 BHP, 120 TBP, DP2
MP Premier	AHTS 8,080 BHP, 110 TBP, DP2
Winposh 3301	Flat Top Barge (330ft, 20T/m <sup>2</sup> )
Era Merah Putih	AHTS 5,150 BHP, 67 TBP, FiFi 1
LSM Servewell	Crew boat (25Pax)
Elang Biru 507	AWB (100T Crane, 248Pax)
Seacove Noble	AHT 3,500 BHP, 42 TBP, FiFi ½
Far Sabre	AHTS 15,953 BHP, 187 TBP, DP2
Mermaid Nusantara	Subsea Support Vessel, DP2

## Project Overview:

We assisted Boskalis in both Phase 1 and 2 of the Madura project. This included mooring and chain installation with crane barges and towing tugs. In the second phase, various vessels were used including a DP2 DSV to facilitate the towing of FPSO, escort duties, heading control and riser installation.



FPSO Karapan Armada Sterling III



MP Prevail



# ILLUSTRATION 06

<b>Project</b>	<b>SOUTHERN STAR (Owner Tasik Toba Subsea AS)</b> 105m, ABS Class, DP3 SOV
----------------	---

Charterer	Shelf Subsea / Bintang Subsea
End client	Various Tier 1 EPIC firms, IOCs & NOCs
Owner	Tasik Subsea
Time	March 2019 – Ongoing
Area	Southeast Asia

Vessel Name	Specifications
-------------	----------------

Southern Star	Offshore Support Vessel (LOA 112m); DP3, 1000m <sup>2</sup> , 4,500T DWT
---------------	---



## Project Overview:

Southern Star, built for Tasik Subsea by Fujian Mawei Shipyard in China.

In addition to broking our M3 Expertise team were involved extensively in the design and technical aspects of the vessel including DP FMECA and FMECA of the Diving systems and Main Crane.

The vessel was delivered in June 2017.

The vessel has supported projects for the below clients:





# ILLUSTRATION 07

Project	Accommodation Barges
Charterer	The Maritime and Port Authority of Singapore (MPA)
Time	April 2020 – March 2021
Area	Tanjong Pagar Container Terminal, Singapore

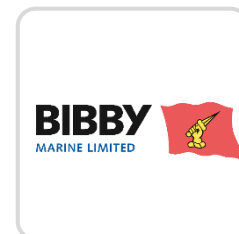
Vessel Name	Specifications
Bibby Progress	Accommodation Barge (LOA 91m); 310 Berths
Bibby Renaissance	Accommodation Barge (LOA 95m); 664 Berths



## Project Overview:

M3 sourced two Accommodation Barges from Bibby Maritime Limited for Maritime Port Authority of Singapore (MPA). This was as a part of the national effort to contain the spread of the COVID-19 pandemic. The barges provided floating accommodation to healthy foreign workers otherwise staying in dormitories.

In addition to providing chartering services, M3 was involved in the towage of the barges to the terminal, working with the ship management company and other vendors to ensure successful implementation of this bespoke project.



*Foreign workers waving from top deck of Bibby Progress*



*Bibby Progress*



*Bibby Renaissance*

# ILLUSTRATION 08

Project	Bank Sale of Enterprise 3
Seller	Major Singapore Bank and EMAS Perisai Sdn Bhd
Time	2018- 2019
Vessel Name	Specifications
Enterprise 3	Derrick Lay Barge capable of laying 6" to 36" OD pipes, equipped with 300 men accommodations and 800T crane.
Rubicone	MOPU has a daily production capacity of 165MMscfd of gas, 5262 BPD of oil and 2044 BPD of water.



## Project Overview:

M3 Marine was approached by a major Singapore bank to assist in distress asset sales of Derrick Lay Barge “Enterprise 3” and MOPU “Rubicone”. As a value-added service, we produced a marketing strategy, sent regular updates to the Bank and Owners, and had undertaken numerous inspection of the Vessels.

The “Enterprise 3” was eventually sold to a Chinese company and it is currently working offshore China.

The “Rubicone” was eventually sold to an Indonesian scrap buyer.



MOPU ‘Rubicone’



Derrick Lay Barge “Enterprise 3”



# ILLUSTRATION 09

## Project Pasay Reclamation Development

Charterer Jan De Nul

Time Sept 2021- Nov 2021

Area Batam to Manila Bay

## Vessel Name Specifications

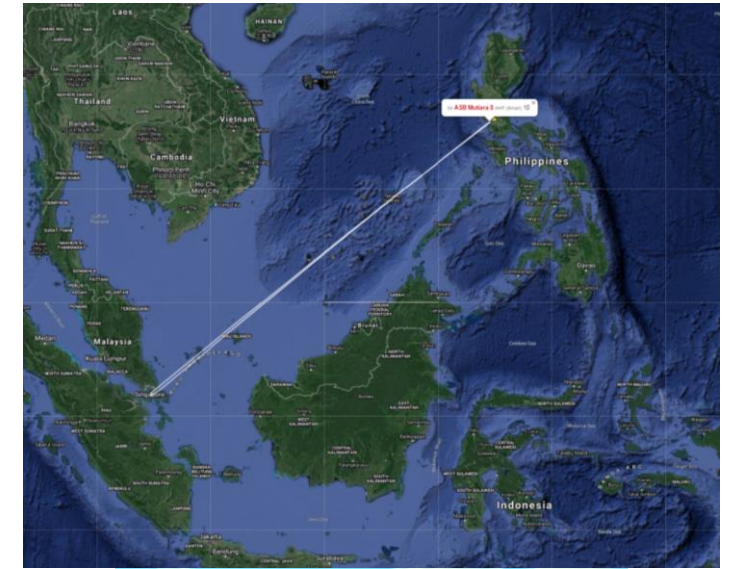
ASB Mutiara 8 3200BHP, 40T BP, Anchor Handling Tug.



## Project Overview:

The Pasay Reclamation Development Project in Manila Bay is a new and modern commercial and residential property development. The project involves the reclamation of approximately 360 hectares through the construction of three artificial island according to international standards to ensure a safe living environment.

M3 Marine was approached by Jan De Nul to source for a Tug to assist in a dredging of the “Harbour City Reclamation” project in Manila Bay, Philippines. The Tug will be required to do multiple towages between Batam and Manila. The work includes towage of 240m Dunlops, towage of Barge filled with project equipment and towage of the dredger.





# M3 Marine Expertise





# M3 MARINE EXPERTISE

**M3 Marine Expertise (M3ME)**, a subsidiary of M3 Marine Group, was incorporated in early 2010 to focus on providing first class technical, marine and commercial / corporate consultancy services to meet the needs of the Offshore Marine, Oil and Gas & Offshore Renewables industries.

We are a young and dynamic company with an excellent track record of delivering high quality technical and commercial analysis, assessments and reports and have earned ourselves a growing pool of satisfied and repeat customers.

We are supported by a team of dedicated in-house projects engineers, led by our esteemed Managing Director, Joey Fisher, and further backed by a network of associates, contacts and a pool of mariners, chief engineers, offshore engineers and industry professionals.

# | EXPERTISE TEAM



**JOEY FISHER**  
Managing Director

Joey Fisher (IEng IMarEng MIMarEST, First Class Chief Engineer, Shell Appointed Dynamic Positioning Subject Matter Expert (DP SME) Operational & Technical, IMCA DP Trials & Assurance Practitioner and IMCA Accredited Inspector, awarded DP Committee's Distinguished Achievement Award 2022), has nearly 20 years offshore marine engineering experience and is an accomplished surveyor, superintendent and project manager for offshore ship building and major repairs. Joey's particular expertise lies in high-end Dynamically Positioned Offshore Support Vessels including Subsea Construction Vessels and Diving Support Vessels. He is also highly qualified to provide DP-related consultancy; advise on the integration of vessel machinery, equipment and specialist subsea systems such as built in Saturation Diving Systems and as an author and auditor of FMEA's. Joey has the breadth and depth of experience to ensure consistent and quality driven deliverables and exacting standards.

Joey Fisher leads the projects and is supported by M3ME's team of Project Engineers as appropriate.



**ALEX BRABIN**  
Projects Director

Alex Brabin (CEng CMarEng MIMarEST, First Class Chief Engineer, IMCA DP Trials & Assurance Practitioner, IMCA Accredited Inspector and IMCA Accredited Diving Inspector – Surface & Saturation Systems) has extensive experience as a superintendent and project manager for offshore ship building, conversion and major repairs of a variety of Offshore Support Vessels with extensive experience in managing and controlling the budgets of such projects. Alex also provides high quality consultancy in the areas of Dynamic Positioning Systems, Saturation Diving Systems and vessel propulsion, piping and electrical wiring systems.

# | EXPERTISE TEAM



**SERAFIN JARVIÑA**  
Senior Projects Engineer

Serafin Jarvina (BSc Electrical Engineering, IMCA Accredited DP Trials & Assurance Practitioner, and IMCA eCMID Accredited Vessel Inspector (AVI)), has more than 15 years of experience in the Offshore and Marine industry. A highly experienced Project Engineer in conducting DP FMEAs, DP FMEA Proving Trials, Annual DP Trials and other offshore vessel surveys / audits.

Serafin has also carried out DP acceptance trials for DP Shuttle Tankers with Bow Loading Systems (BLS) for oil majors and vessel owners. Prior to his DP career, he handled and managed new building projects involving DP Offshore Support Vessels ranging from ROV support, Diving Support, AHTS and Multi-Purpose Support Vessels (MPSV). Being passionate about Renewable Energy (RE), Serafin is up to date with the latest RE developments in the Philippine energy sector and is also knowledgeable in regulatory compliance

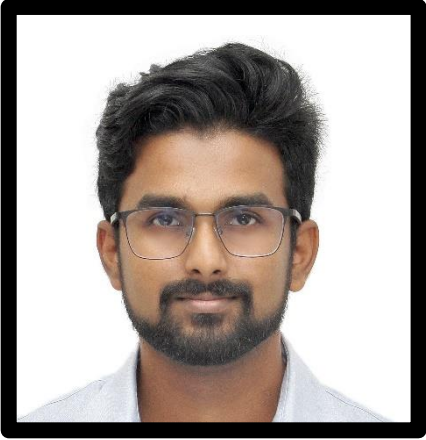


**BRIAN CHEN**  
Senior Projects Engineer

Brian Chen (B. Eng. in Naval Architecture and Marine Engineering), Senior Projects Engineer of M3 Marine Expertise has extensive experience in Marine Warranty Surveyor and Loss of Hire (LOH) Surveys. He is also an accomplished Project Engineer in conducting DP FMEAs, DP FMEA Proving Trials, Annual DP Trials, and other offshore vessel surveys / audits. He has handled and managed new building projects (DNV Class) from engineering, budget, procurement through to production phases.



# | EXPERTISE TEAM



**ARAVIND ELANGO**  
Technical Assistant

**Aravind Elango (BEng Marine Engineering)** graduated from Singapore Institute of Technology in 2022 and a Diploma in Marine Engineering from Singapore Polytechnic.

He joined M3 Marine as a Technical Assistant to help with the day-to-day technical operations of the business by offering engineering and project management support. He is proficient in conducting survey and DP Audit. He is eager to contribute to the company's growth while also honing his technical marine engineering skills.



**STEVE WONG**  
Technical Assistant

**Steve Wong (BEng Marine Engineering, Honors with Distinction)** graduated from Singapore Institute of Technology in 2023 and holds a Diploma in Marine Engineering from Singapore Polytechnic. He attained Marine System Specialist title while serving in Republic of Singapore Navy.

He joined M3 Marine as a Technical Assistant to help with the day-to-day technical operations of the business by offering engineering and project management support. He is eager to contribute to the company's growth while also honing his technical marine engineering skills.

# | EXPERTISE TEAM



**GEEN PANGANIBAN**  
Commercial Manager

**Geen Panganiban, BSc (Eng)** is a Civil Engineering graduate and has extensive experience in dealing with the company's clients on their commercial requirements. Prior to joining M3 Marine, she was engaged in Project Management with various Architectural and Civil Engineering firms. These exposed her to different types of planning, managing and project documentation. She is now handling the Commercial Manager role for M3 Marine Expertise, the organisation's business and compliance requirements along with the HSE and Quality Management.



**GOH SWEE CHENG**  
Commercial Executive

**Goh Swee Cheng**, holds a Diploma in Mass Communications. Prior to joining M3, Swee worked in the broadcast industry where she developed content solutions and managed campaigns from Asia and MENA regions. At M3 Marine Expertise, she will support the Commercial team, and undertake a range of functions to ensure activities within the organization run efficiently. She is a keen learner and passionate about delivering quality client experience.

# | EXPERTISE TEAM



**CAPT. JOHN CARROLL**  
European Representative

**Capt. John Carroll (MNI, BSc)** is based in the UK and brings another dimension to M3 Marine. He was a Master in the offshore industry onboard AHTS and Salvage vessels. Since leaving the sea he has over twenty years experience in marine consulting and the marine insurance industry. His latest role, prior to working with M3, was as a marine loss control engineer/risk manager for a US international insurance company based in their London City office.

John is capable of assisting in salvage, wreck removal, condition surveys, risk assessment, risk management for project cargoes, marine representation and marine warranty surveys. He has the ability to be embedded within a client's/main contractors office and offer value-added marine consultancy services to assist in the completion of marine projects.



**PHIL ROBINSON**  
Cable Claims Consultant

**Phil Robinson**, an experienced Electronics Engineer and Ships Diver from the British Royal Navy. Phil has over 38 years of experience in the Offshore Oil & Gas business, initially as a Commercial Air & Sat Diver/Supervisor he moved through to manage large offshore projects and also into the use of specialised ROVs to bury cables, for over fifteen years for many cable installation companies. He has since managed difficult cable installations and solved burial problems with cables for the likes of Global Marine, Alcatel Submarine Systems and Level 3 Cables.

He has worked for several years now with many P&I Clubs in limiting their exposure to claims where a vessel's anchor has allegedly broken a cable and the Club has been claimed against.



# | M3 MARINE EXPERTISE

**M3 Marine Expertise (M3ME)** possesses the marine technical capabilities and competencies to offer our valued Clients a spread of high quality technical Offshore Marine, Oil and Gas and Renewables related services.

## Dynamic Positioning & FMEA Consultancy

### Dynamic Positioning Vessels (Class 1, 2, and 3)

- DP Vessel Concept Design
- DP FMEA / FMECA and Proving / Verification Trials
- DP FMEA Assurance (OCIMF Framework)
- Annual DP Trials
- DP Assurance
- CAM, ASOG and Gap Analysis
- DP Operations Manuals

### Offshore Crane FMEA / FMECA

**Bilge / Ballast Systems (Heavy Lift) FMEA / FMECA**  
**Spread Mooring System FMEA / FMECA**

**\* In-house IMCA Accredited DP Trials & Assurance Practitioners**

## Audits & Inspections

### Vessel Audits & Inspections

- IMCA eCMID
- Suitability Surveys
- General Condition Surveys
- Pre-Purchase Condition Surveys
- On/Off Hire Inspections
- Hull & Machinery Damage Surveys
- Insurance Surveys
- Incident Investigations

**\*In-house eCMID Inspectors (AVIs)**

## Technical Consultancy

### Owner / Operator Representative

- Specification writing, shipyard liaison, tender analysis and budget compilation
- Dry Docking Supervision including budgeting, cost analysis and negotiation of final bill
- Immediate breakdown support, contractor liaison and repair supervision
- General marine and electrical engineering support including assistance with offshore equipment integration, problem solving and identification of remedial actions
- Newbuilding supervision, specification writing and contract / specification advice
- Hybridisation and other alternative fuel methods of decarbonization / power saving

# | M3 MARINE EXPERTISE

**M3 Marine Expertise (M3ME)** possesses the marine technical capabilities and competencies to offer our valued Clients a spread of high quality technical Offshore Marine, Oil and Gas and Renewables related services.

## Diving & Subsea Consultancy & Audits

### Diving System Consultancy

- Diving System Integration Planning
- Diving equipment inspection and suitability assessment
- Engineering support for diving system repairs in conjunction with diving system manufacturer and classification society requirements
- Specification writing and tender analysis for major diving systems surveys
- HAZOP / HAZID

### IMCA Design Audits

- IMCA D023, IMCA D024, IMCA D040 & IMCA D053
- ROV Audits
- IMCA R006 ROV Audits

### FMEA / FMECA

- Saturation Diving System FMEA / FMECA
- Air Diving System FMEA / FMECA

## Commercial Consultancy

- Market Study / Research
- Merger and Acquisition
- Expert Placement for Marine Personnel
- Corporate / Commercial Due Diligence
- Equator Principles Due Diligence
- HSE Legal & Technical Due Diligence

## Expert Witness

### Commercial and Technical Expert Witness to support marine, offshore and oil & gas legal disputes:

- Dynamic Positioning (DP)
- Failure Modes and Effects Analysis (DP & Dive FME(C)A)
- Subsea work
- Commercial and Operational Practices for Offshore Vessels
- Asset Valuation (Vessels, Rigs and Equipment)
- Availability of Vessels
- Charter Rates Assessment
- Execution of Sales and Charter Contracts
- Offshore Marine, Oil and Gas Market Assessment
- Vessel Towage
- Vessel Broking
- Termination of Charter Contracts
- Termination of Shipbuilding Contracts

# | AWARDS & ACHIEVEMENTS



## Joey Fisher

### *DP Committee's Distinguished Achievement Award 2022*

*" I've been passionate about DP safety and continuous improvement of the rules and guidelines that are available to the DP community, and, passionate about continuous improvement of the work that I do and that my company does.*

*I am always keen to learn and to share information and knowledge, and that's why I invest so much of my time in the areas that I do, and that's also why I'm committed to DP Asia and lobbying the best people who can contribute, to attend the event, to improve awareness and knowledge in the region where I am based."*

Joey is also the Chairman of the DP Asia Technical Committee and through his stewardship he has helped to bring the DP community together across Southeast Asia and bring about increased awareness of the MTS DP Committee's work. This has undoubtedly helped improve DP safety in the region.







# M3 Marine Valuations



# | M3 MARINE VALUATIONS

**M3 Marine Valuations (M3MV)** was incorporated in April 2016 to better cater customers' needs in the Offshore Marine, Oil & Gas and Renewables sectors. M3MV is one of the few (if not the only) consultants that have a valuation 'procedure' when valuing vessels.

M3MV undertakes and delivers quality and reliable **asset valuations** (vessels / rigs / Wind equipment), including without limitation, overviews on key considerations in assessment of value, detailed reviews of technical specifications of offshore marine assets, detailed reviews of newbuild contract documentation, construction and associated costs for valuation purposes, indicative current valuation ranges and historic, current and future charter rate expectation for assets to owners, keen buyers and sellers, financial institutions, banks and other interested parties.

We also participate in joint-valuations on larger projects, have advised on numerous M&A deals and have co-operated with several esteemed yet typically non-offshore ship broking companies by undertaking on their behalf vessel valuations for offshore and renewables assets.

Vessels valued range from the most complex DP MPSVs, Jack up / Derrick Lay / Pipe Lay / WTIV / Accommodation Work Barges (and their sophisticated equipment onboard) to smaller sized SOV's, CTV's, Anchor Handlers, tugs and barges.

# | VALUATIONS TEAM



**CAPT. MIKE MEADE**  
Group CEO and Expert

**Capt. Mike Meade, CMMar FNI MICS (Group CEO, Lead S&P Offshore Ship Broker and Expert Valuer)** has over 35 years experience in the offshore shipping sector. He heads up the Valuations team, with a support team of brokers and consultants.

Mike involves extensively in Newbuilding and Sale & Purchase transactions of offshore vessels, and gains a genuine sense of the 'real' market values. He is also an active and frequent contributor in trade conferences as speaker, panellist, moderator and session chairman.

Mike was awarded the prestigious Lifetime Achievement Award at the OSJ Awards 2022, awarded to an individual who has made a contribution of outstanding significance to the OSV industry during their lifetime.



**MILI CHUNG**  
Business Manager

**MiLi Chung**, joined M3 in the capacity of a Senior Business Analyst. MiLi holds a Degree in Associated Business Administration in Management and has over 12 years experience in the Offshore Marine sector with exposure to broking, valuations and commercial operations having spent 9 years with RS Platou and 3 years with Clarksons Platou. MiLi in her role will continue to provide the outstanding work and service our clients have come to expect from M3 Marine.



# | VALUATIONS TEAM



**JULIANNA CHUA**  
Senior Business Analyst

**Julianna Chua (BSc)** holds a Bachelor's Degree in Maritime Business with Maritime Law. She was first introduced to the offshore sector through her internship at M3 Marine whilst pursuing her diploma in Singapore Polytechnic and has since taken interest in the industry.

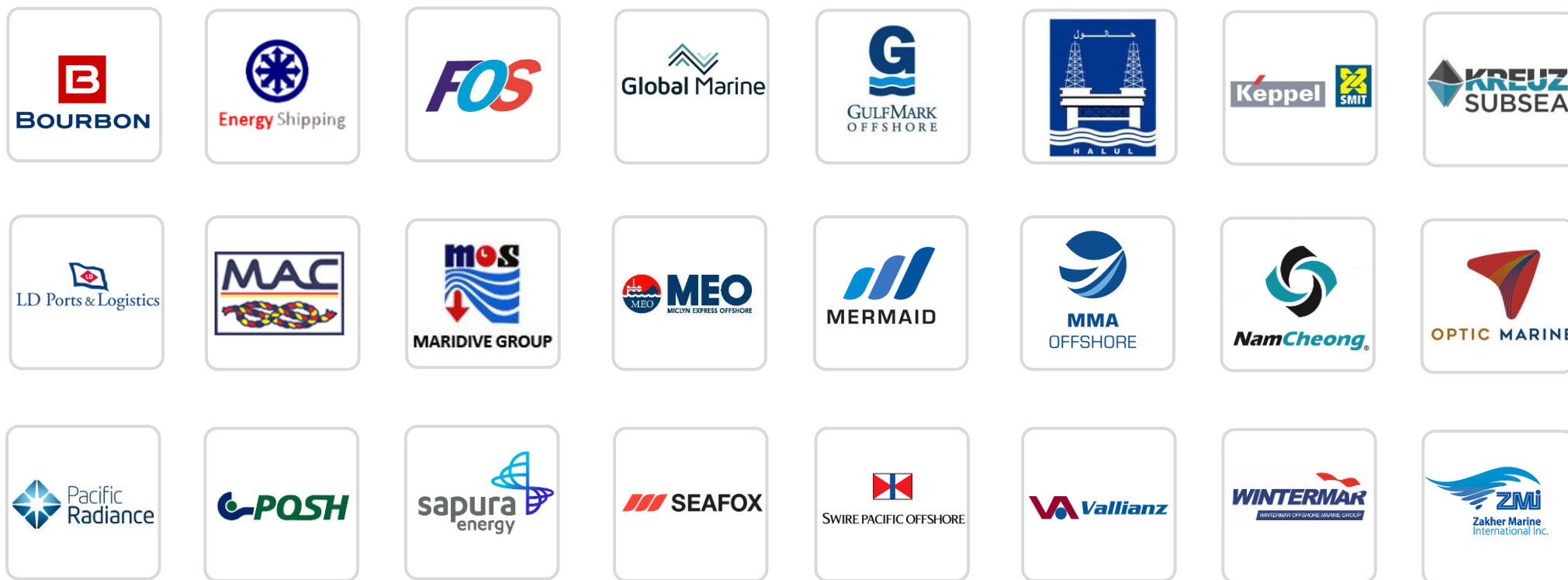
Having graduated from Plymouth University, she would add value to M3 Marine by providing diverse industry perspectives. Being a motivated individual and a strong believer in continuous learning, Julianna strives to excel in the offshore industry with the guidance and support of M3 Marine.



# | M3 MARINE VALUATIONS

## KEY OWNERS

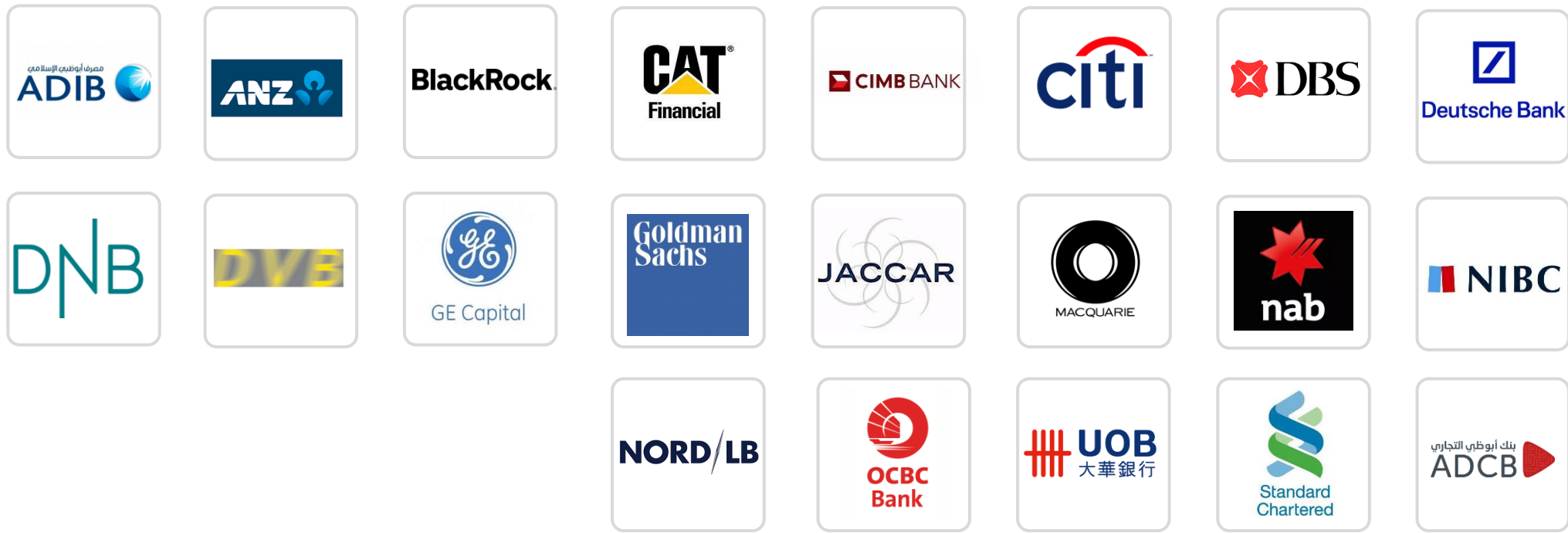
Deliverables: Asset (Rigs / OSVs / Renewables / Equipment) Valuation



# | M3 MARINE VALUATIONS

## BANKS / INVESTMENT FIRMS

Deliverables: Asset (Rigs / OSVs / Renewables / Equipment) Valuation





# | M3 MARINE LEGAL WORK

## LEGAL FIRMS / OTHERS

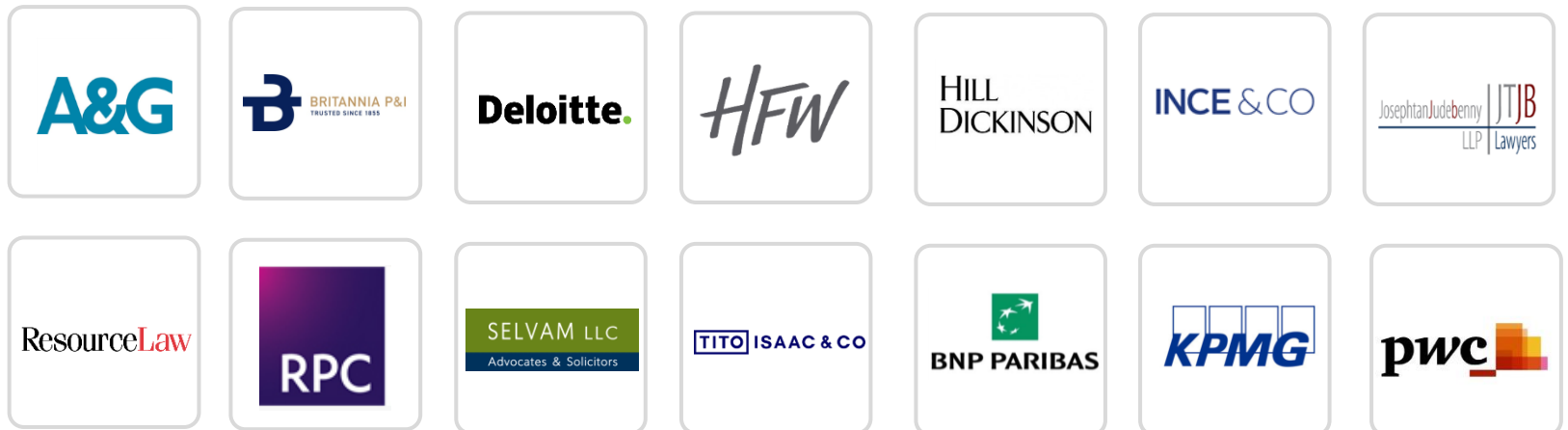
Deliverables: Expert Witness / Arbitration / Mediation / Dispute Resolution / Asset Valuation

A non-exhaustive list of matters that we have been appointed to provide independent experts' opinions on are:

- Asset Valuation (Vessels, Rigs and equipment)
- Availability of Vessels
- Charter Rates Assessment
- Execution of Sales and Charter Contracts
- Commercial and Operational Practices for Offshore Vessels
- Dynamic Positioning (DP)
- Failure Modes and Effects Analysis (DP FMEA)
- Offshore Marine, Oil and Gas Market Assessment
- Vessel Towage
- Vessel Broking
- Termination of Charter Contracts
- Termination of Shipbuilding Contracts
- Subsea work
- Renewables

Our Experts have received Bond Solon training and possess in-depth technical and commercial knowledge, and are well versed in the fields they specialize in. We are capable in understanding complex cases in detail and able to present substantial expert opinions for both commercial and technical matters.

Our Experts have extensive experience in mediation and arbitration and are credible and capable of representing cases to get the key points across.



# M3 Marine Group



# | M3 MARINE GROUP TEAM



**DAVID WOON**  
Finance Director

**David Woon (CPA, MBA)**, holds a MBA degree from California State University, Hayward, USA and is a Certified Public Accountant with a Degree in Accountancy from NTU, Singapore. David joined M3 Marine as a Financial Controller of the M3 Group of Companies in October 2009. He strives to provide financial leadership and is a business partner to the management to drive M3's growth.

Prior to joining M3 Marine, David has more than 15 years of financial and corporate experience acquired with both MNCs and SMEs in offshore consultancy and other service industries where he assumed senior finance positions. David is also overseeing the group's Human Resources Department.



**SHIRLEY TAY**  
Accounts Executive

**Shirley Tay** studied at Clifford Educational Centre where she was awarded with the London Chamber of Commerce and Industry (LCCI) in Bookkeeping and Accounting.

She is currently pursuing an advanced level course in CAT and has plans to pursue ACCA after.

# | M3 MARINE GROUP TEAM



**CYNTHIA TAN**  
Accounts Executive

**Cynthia Tan** is an ITE graduate with a certificate in Office Skills and Accounting. She benefits from years of accounting experience prior to joining M3 Marine and is currently pursuing her Association of Chartered Certified Accountants (ACCA) – Level 2 Degree.

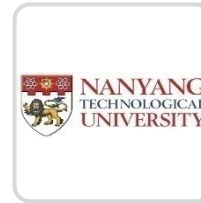




# TRAINING PROGRAM

M3 offers internships to **Singapore Polytechnic's Maritime Business & Marine Engineering Diploma** cohorts and **Nanyang Technological University's Maritime Studies Degree** students, giving the students the opportunity to learn in both M3 Marine (Offshore Brokers) and M3 Marine Expertise. M3 has since extended its internship opportunities to students from **ITE's Shipping Operation & Services** in 2014.

Furthermore, M3 sponsored 2 of its former interns in pursuing their **Degree in Maritime Business at Plymouth University (UK)** under the **Singapore Maritime Foundation (SMF) Scholarship** and the **Maritime Port Authority Sponsorship Programme**. To date, 4 of M3's former interns have since moved on to join us as **Management Trainees** and full time employees.





# | SOCIAL EVENTS



M3's Go Kart Team Bonding 2017



M3 Visit to Southern Star 2017



M3 SSA YEG Bowling Challenge 2017



M3 SSA YEG Bowling Challenge 2017



MOOGAS Golf & Dinner 2017



M3's Anniversary Dinner 2018 at Smith Marine Floating Restaurant

# KEY CUSTOMERS







**TECHNICAL  
CONSULTANCY**

**PROJECT  
ILLUSTRATIONS**



# ILLUSTRATION 01

Key Deliverables	The Compact Semi-Submersible (CSS) Concept
Project	Technical, Operational and Commercial Consultancy
Period	Design stage involvement commenced in 2005, newbuild contract commenced in May 2010 March 2012 to Present (On-going)



CSS Derwent

## Project Overview:

The CSS vessel is a state-of-the-art twin hull vessel which can be developed into multiple roles– a first-in-class concept aimed at the offshore sector. The concept was developed by **CSS Design**, originally set up by John Giddens of Hallin, Robin Reeves of MAC, Aker Yards and Mike Meade at M3 Marine. The naval architect initially known as Aker Yards is now a part of VARD and is a shareholder in CSS Design.

M3 Marine provided both the technical and operational expertise required in the initial conceptualization and gradual development of the CSS concept. M3 is also a part Owner in the design company.

In addition, M3 Marine brokered the >USD 100 Million newbuilding contract between Hallin Marine and the shipyard for the building of **CSS Derwent**, a 84 m, twin-hulled, DP3 vessel complete with a 200T MPT, a 150T AHC (both operational to depths of 3000 m) and 2 deep water construction class ROVs.

M3ME continues to remain committed to providing **technical, operational and commercial consultancy** services to all of the CSS variants.



# ILLUSTRATION 02

Key Deliverables	7 x CSS Vessels 84m+, ABS Class, DP3 CSS
Project	Conceptual Design Report Electrical Design Consultancy On-going Technical Consultancy and Support DP FMEA (Inc. Proving Trials and DP Operations Manual)
Period	2010 – Present (On-going)



CSS Olympia

## Project Overview:

M3ME were first engaged in 2010 to undertake an independent review of the proposed **conceptual design for the electrical installation of the CSS Olympia** (in accordance with sound engineering practices and applicable IMO, IMCA and Class rules, standards and guidelines) and to also advise on areas which should be improved.

Subsequently, M3ME were contracted by Fujian Mawei Shipbuilding to further undertake **DP FMEA (including Proving Trials and DP Operations Manual)** for all the **7 CSS** in 2013.

The first CSS delivered, **CSS Olympia**, won the award for 'Offshore Support Vessel of the Year' award at the OSJ Awards 2014.



'CSS Olympia' was awarded Support Vessel of the Year at the Annual Offshore Support Journal Conference & Awards 2014.



# | ILLUSTRATION 03

## Key Deliverables

**MW620-1**  
**98m, ABS Class DP3 Compact**  
**Semi-Submersible Vessel**

Project	Assistance with DP Zone Plan and Segregation Philosophy
Period	2014

## Project Overview:

M3ME have been engaged to generate a report identifying all cable routes based on the plan provided which identifies in principal where the fire boundaries / zones and main cable routings are for the larger CSS **Mk 1.5 – CSS M98**.

The report will also identify where additional A-60 boundaries or trunks should be added, where DP related equipment should be located as well as define key DP / Kongsberg network, electrical systems and cable routing paths.

**VARD**<sup>TM</sup>  
a Fincantieri company



# ILLUSTRATION 04

Key Deliverables	SOUTHERN STAR 105m, ABS Class, DP3 SOV
Project	On-Going Technical Consultancy Detailed Specification Review Conceptual Design Report Diving System Interface Plan FMEA (Inc. Proving Trials and DP Operations Manuals) – DP System FMEA – Diving System IMCA D023 Audit IMCA D024 Audit
Period	2013 – Present (On-going)



Southern Star

## Project Overview:

M3ME were engaged to produce a report which included **guidance on the conceptual design** for the diesel electric package to be installed on **SOUTHERN STAR**. This included the principle design for all of the vessel's systems, electrical, piping, control, automation etc.

M3ME provided consultancy and assistance with the technical aspects of the vessel specification. A '**Diving System Interface Document**' was also provided to assist Tasik Subsea and the shipyard to define the responsibilities and planning for all aspects of the diving system supply, installation and testing requirements, including the various requirements for the diving system vessel interfaces.

M3ME have subsequently been contracted by Fujian Mawei Shipbuilding to produce **DP FMEAs** for the vessel's DP System and engaged by LSWE to undertake **FMEA for both Air and Saturation Diving Systems, IMCA D023 and IMCA D024 Audits**.



'Southern Star' was awarded Support Vessel of the Year at the Annual Offshore Support Journal Conference & Awards 2018.





# ILLUSTRATION 05

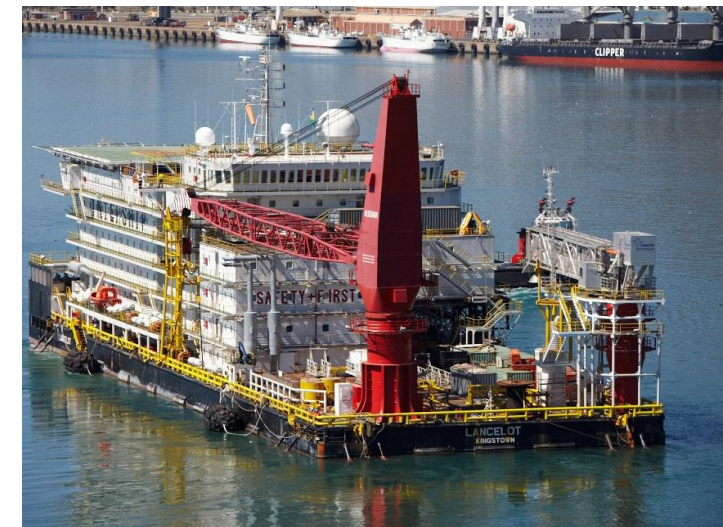
Key Deliverables	
Project	Conceptual Design Upgrades Specifications DP Design Schematics Onsite Project Management DP FMEA (Inc. Proving Trials and DP Operations Manual) DP Master Placement On-going Technical Consultancy (quarterly basis) DP Incident Investigation OCIMF OVID Audits DP Testing / Verification Trials
Vessels	<b>Lancelot</b> 111.56m, ABS Class Accommodation Barge <b>Camelot</b> 190m, ABS Class, Accommodation Construction Work Barge <b>Cable 1</b> 91.5m, BV Class, Barge <b>Olympia</b> 100m, ABS Class, Accommodation Barge
Period	Mid 2011 – Present (On-going)

## Project Overview:

M3ME were engaged by Intership Ltd in 2011 to assist in the conceptual design of the conversion of the accommodation barge Lancelot into a DP3 ABS Class vessel. Our involvement quickly expanded to encompass provision of upgrade specifications, design schematics, onsite project management (throughout her conversion), DP FMEA (including Proving Trials and DP Operations Manual) and placement of a DP Master for her trials and subsequent towage from Batam, Indonesia to Cape Town, South Africa where she thereafter begins a seven year charter with Total E&P Angola. M3ME are also engaged, in the capacity of third party advisors, to attend the vessel on a quarterly basis .

We have since been re-engaged by the same Client to offer an expanded scope of service (as compared to aforementioned) for the DP3 conversion of another accommodation work barge, Camelot.

In 2015, M3ME were engaged to complete OCIMF OVID Audits for Cable 1, Camelot and Olympia and DP Testing / Verification Trials for Lancelot. Being a repeat client since 2011, shows the level of confidence Intership have with us and our team of engineers.



Lancelot

# | ILLUSTRATION 06

## Key Deliverables

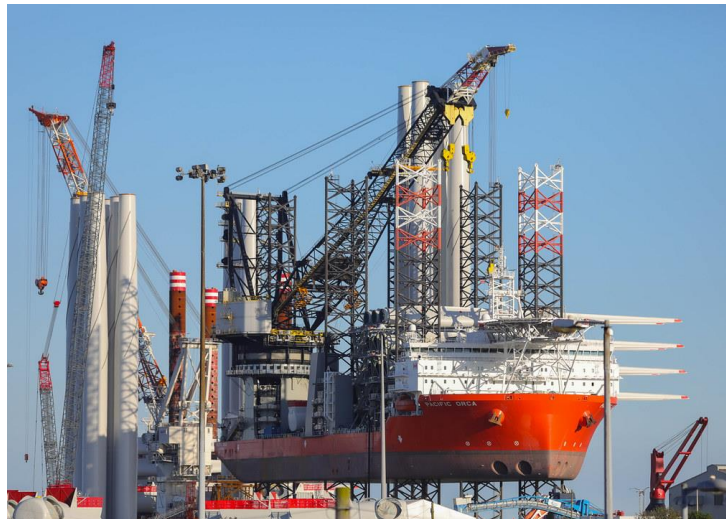
Project	Preliminary DP FMEA FMEA Verification / Annual DP Trials in the renewables space
Vessels	<b>Wind Orca</b> <b>Windfarm Installation Vessel (WIV)</b> 160.90m, DP2 DNV GL Class  <b>Wind Osprey</b> <b>Windfarm Installation Vessel (WIV)</b> 160.90m, DP2 DNV GL Class
Period	January 2017 – DP FMEA January 2018 – Ongoing – FMEA Verification / Annual DP Trials

## Project Overview:

M3ME was contracted by Swire Blue Ocean to conduct a **Preliminary DP FMEA** study for **Wind Orca** and **Wind Osprey** in accordance to the latest renewables industry DP guidance.

Subsequently, Swire Blue Ocean awarded M3ME with the 5 Yearly DP FMEA verification Trials and Annual DP Trials for both of their Windfarm Installation Vessels.

# CADELER



*Wind Orca*



*Wind Osprey*

# ILLUSTRATION 07

Key Deliverables	ZPMC Hull no. 1075 (ZPMC Pelagic) 145.90m, DNV Class, DP3 DSV / OCV
Project	FMEA (Inc. Proving Trials and DP Operations Manuals) – DP System FMEA – Crane System (1 x 400T & 1 x 25T AHC Crane) FMEA – Diving System (Air & Saturation System) IMCA D024 Audit Ad-Hoc Technical Consultancy (Diving Systems)
Period	2015 – Present (On-going)



Toisa Pelagic

## Project Overview:

ZPMC have awarded the following scope of work to M3ME:

- DP FMEA (including Proving Trials & DP Operations Manual) for the vessel's DP System (DP3)
- Diving System FMEA (both Air and Saturation Diving)
- IMCA D024 Audit
- FMEA for 25T and 400T AHC cranes
- Ad-Hoc Technical Consultancy (Diving Systems)

We are honoured ZPMC, a first time Client, have given us their vote of confidence based on our exceptional technical abilities across various 'genres' of FMEA, excellent track record of delivering high quality FMEAs and a good reputation within the offshore industry and especially in the FMEA arena.

Toisa Pelagic is one of the largest and most capable DSV in the world.



# ILLUSTRATION 08

## Key Deliverables

Project	DP FMEA (Inc. Proving Trials) Main Switchboard Design Consultancy DP FMEA Electrical Design Study Annual DP Trials and DP FMEA Verification Trials DP Vessel Assurance
Vessels	<b>8 x D-Class</b> 92m ABS Class DP2 AHTS <b>4 x L-Class</b> 97.92m DNV Class DP2 PSV <b>10 x G-Class</b> 84.65m DNV Class DP2 PSV <b>3 x Multi Purpose Offshore Subsea Class OSV Fleet</b> Various
Period	2010 – Present (On-going)



Pacific Leader in Capetown

## Project Overview:

M3ME were initially asked to undertake the Main Switchboard Design Consultancy for the Swire's D-class vessels. Subsequently, we were engaged to conduct the DP FMEA (inc. Proving Trials) for 4 x D-Class vessels and was further increased to include another 4 x D-Class sisters, totalling 8 x D-Class AHTS. These vessels adopted the latest Dynamic Positioning technology and carry SPS 2008 notation. More information on these D-Class AHTS is available at Swire's website.

Universal Shipbuilding Corporation in Japan have engaged M3ME to conduct a Main Switchboard Design Consultancy and DP FMEA Electrical Design Study for Swire's L Class PSVs. This encompasses the reviewing of the main switchboard data to produce a 'Functional Requirements & Testing Document' to be used by the client at the Main Switchboard FAT. The Offshore Ship Designers (OSD) designed vessels will be built by Universal Shipbuilding Corporation. The 5,000 DWT vessels are classed with DP2 capability and have diesel electric propulsion systems.

M3ME were awarded the scope of undertaking DP FMEA (inc. Proving Trials) and Annual DP Trials Document for 10 x G-Class vessels.

M3ME has also been awarded with Annual DP Trials, DP FMEA Verification Trials and DP Vessel Assurance for various Offshore Supply Vessel since 2015.





# ILLUSTRATION 09

## Key Deliverables

Project	DP Documentations Review DP FMEA Proving Trials Attendance DP Operations Manual Enhanced DP Drills DP Assurance Verification of Competency
Vessels	<b>Bigroll Biscay</b> 146m DNV Class DP2 Barge Carrier / Heavy Equipment Carrier
Period	March – June 2021

**R ROLL GROUP**

**MCDERMOTT**

## Project Overview:

M3ME were asked to undertake DP Assurance and a DP Documentation Review by McDermott Australia for the Heavy Load Carrier Vessel Bigroll Biscay of Roll Group.

The work covered the following:

- DP FMEA Documentation Review
- Attendance during trials and reporting
- New DP Operations Manual
- New CAM / ASOG Documentation
- Review and advice on all company documentation relating to management of DP operations
- Verification of the Competency for the key DP personnel onboard



# ILLUSTRATION 10 – Case Study

## Key Deliverables

Project	Project Management During Drydocking and Repair
Vessels	Siem Amethyst Siem Pilot Siem Thiima Siem Sapphire
Period	2021-2022

## Objectives:

M3 Marine Expertise (M3ME) was commissioned by Siem Offshore to provide comprehensive Project Management during the scheduled drydocking and repair of Siem Amethyst, Siem Pilot and Siem Thiima. During this work programme the Siem Thiima was also being outfitted by Kongsberg with a full battery / hybridisation package. M3ME also provided support during the unscheduled drydocking of Siem Sapphire. M3ME work included:

The work covered the following:

- Execution of the work programme in consultation with Siem Offshore Vessel Managers.
- Liaison with shipyard project managers, sub-contractors, and Class Society
- Provision of technical advice and guidance in support of completion of work packages.
- Daily progress meetings and reporting.
- Post docking reporting with budget / invoice reviews.
- Post drydocking FMEA Proving Trials on Siem Amethyst and Siem Pilot.

All work was undertaken in Paxocean Shipyard, Singapore.



# | ILLUSTRATION 10 – Case Study

## Solutions:

Siem Offshore chose M3ME to undertake this work based on a combination of factors which included:

- Ability to work with Siem Offshore Vessel Managers for prompt and efficient execution of the docking work scope.
- Previous experience in conducting similar work scopes to a very high standard, within both budget and timeline.
- The work was conducted within a heightened COVID-19 period - Our physical location in Singapore with fully approved / vaccinated personnel ready to be deployed with no quarantine or other restrictions.
- Locally based personnel with familiarity to operate within Singapore and at regional shipyards.
- Demonstrated ability to find cost effective solutions to problems, whilst also adding value to the overall project timeline.

## Benefits:

By using M3ME Siem Offshore saw a full range of benefits including:

- Ability to deliver work scopes on time while aiding completion within planned budgets.
- Highly experienced and fully qualified personnel available at short notice.
- Access to highly qualified marine technical personnel with long standing expertise in delivering a quality service.
- Extensive local and regional contact base across the marine services sector – able to offer introductions to Siem Offshore.
- Experience and local contacts to offer effective problem-solving expertise – sourcing logistics, specialist equipment and personnel.





# ILLUSTRATION 11

Key Deliverables	Global 1200 & Global 1201 162.3m, DP2 Pipe-lay / Derrick Construction Vessel
Project	DP Operations Manual (Inc. updates) On-Site Technical Consultancy
Period	2013 – Present (On-going)



Global 1200

## Project Overview:

M3ME were first engaged to produce the **DP Operations Manual** for **Global 1201**, in accordance with IMCA DP-related documentation for DP vessels, MTS related DP Operational Guidance and DNV-RP-E307 (Recommended practice, dynamic positioning systems) Operation Guidance.

From October 2014 to January 2015, M3ME provided **On-Going Technical Consultancy for Global 1201** while the vessel undergoes switchboard rectification, upgrading works and the replacement of its existing DP Control System. Thereafter, we updated the **DP Operations Manual** that was produced back in 2013 to reflect the operational changes following the upgrade done to the DP / Integrated System.

M3ME have been re-engaged by Technip to offer a similar scope of work for the Global 1200 while the vessel undergoes modifications in Rotterdam.





# ILLUSTRATION 12

Key Deliverables	
Project	DP Upgrade Consultancy DP FMECA (Inc. Proving Trials and DP Operations Manual Annual DP Trials Black-Out Recovery Trials ASOG, CAMO
Vessels	<b>W.M. Sulawesi</b> 72m ABS Class DP2 PSV <b>W.M. Makassar</b> 78m LR Class DP2 PSV <b>W.M. Natuna</b> 68.4m ABS Class DP2 MPSV <b>W.M. Pacific</b> 83m ABS Class DP2 MPSV <b>Winposh Regent</b> 69.9m ABS Class DP2 AHTS <b>Winposh Rampart</b> 71.5m, ABS Class, DP2 AHTS <b>Winposh Resolve</b> 71.5m, ABS Class, DP2 AHTS <b>SMS Supporter</b> 70m, ABS Class, DP2 AHTS <b>SMS Endeavour</b> 58.7m, ABS Class, DP1 AHTS <b>Era Berdikari</b> 58.7m, BV Class, DP1 AHTS
Period	2010 – Present (On-going)

## Project Overview:

**Wintermar** first engaged M3ME in 2012 to provide **DP Upgrade Consultancy** including an **Upgrade Concept Report** for the 72m ABS Class DP1 **W.M. Sulawesi**. The vessel was upgraded to ABS Class DP2.

Subsequently, M3ME authored the **DP FMECA** and attended Proving Trials for **W.M. Sulawesi**. The study included a criticality analysis to the initial DP FMEA scope of work. M3ME also provided **DP Operations Manual** as part of the FMEA package.

Upon the successful completion of this project, the extent of M3ME’s technical services and support was quickly expanded to cover Wintermar’s other DP2 vessels, **W.M. Makassar**, **W.M. Natuna**, **W.M. Pacific** and **Winposh Regent**. The scope of work was similar to that of W.M. Sulawesi.

In 2014, M3ME were engaged to undertake **Annual DP Trials** for **Wintermar’s fleet of DP1 and DP2 AHTSs and PSVs**.

Other work completed for Wintermar include **Black Out Recovery Trials**, **ASOG** and **CAMO** for DP2 PSV **W.M. Pacific**.



Era Berdikari

# ILLUSTRATION 13

Key Deliverables	DP Vessels Services and Audits
Project	Annual DP Trials Switchboard Consultancy ASOG, Risk Assessment Procedures & Drill Matrix DP Operations Manual ASOG including CAMO DP FMEA Verification Trials DP Vessel Assurance
Vessels	<b>Bumi Armada</b> Fleet of DP1 / DP2 AHTS, PSV and OSV  <b>Miclyn Express Offshore (MEO)</b> Fleet of DP2 AHTS, PSV, MPOSV
Period	2011 – Present (On-going)

## Project Overview:

**Bumi Armada** have been a repeat client since 2012. Over the years, M3ME have been consistently engaged to provide various forms of technical support and assistance for Bumi Armada's fleet of DP1 and DP2 AHTSs, PSVs, OSVs including the Armada Tuah 80 series, 100 series, 300 series, 400 series (latest) and 500 series of vessels.

Scope of work include DP FMEA, Annual DP Trials, DP FMEA Verification Trials, DP Vessel Assurance, Switchboard Consultancy, DP Operations Manuals, ASOGs, Risk Assessments Procedures, Drills Matrix and etc.

**MEO** have engaged M3ME's technical services since 2011 for Miclyn Enterprise's and Endeavour's Annual DP Trials.

In late 2014, the extent of M3ME's technical support and assistance have been hugely expanded to include DP FMEA Verification Trials, DP Vessel Assurance, DP Operations Manuals, ASOGs, Risk Assessment Procedures, Drills Matrix and etc for MEO's fleet of DP2 vessels. This also includes a DP FMECA (including Proving Trials) for the E Class vessels.



Era Berdikari

# ILLUSTRATION 14

Key Deliverables	DP Vessels Services and Audits
Project	Annual DP Trials 5 yearly FMEA Verification Trials DP FMEA Verification Trials IMCA D024 Audit
Vessels	<b>Sealion Shipping</b> Fleet of DP2 AHTS, PSV and DSV  <b>Bourbon Offshore</b> Bourbon Liberty 200 Series – 217, 226, 232 (DP2 AHTS)  <b>Newcruz Offshore Marine (Vallianz Offshore Marine)</b> Fleet of DP2 AHTS – Rawabi 9, 10, Swiwar Surya  <b>POSH</b> Fleet of DP2 AHTS and Multi-Purpose PSV POSH Commander, Venture, Champion, Constant, Skua, Concorde, Resolve, Shearwater, Sandpiper, Fulmar, Persistence, Conquest, Venture Caballo Babieca
Period	Sealion Shipping – 2011 – Present (On-going) Bourbon, Newcruz Offshore Marine – 2012 POSH – 2014 – Present (On-going)

## Project Overview:

M3ME were first engaged by Sealion Shipping in 2011 to conduct **Annual DP Trials for Toisa Paladin**. Since then, we have been consistently being contracted to conduct and witness **Annual DP Trials, DP FMEA Verification Trials and 5 yearly FMEA Verification Trials** for their vessels operating in SEA. Other scope of work include **IMCA D024 Audit** of the Saturation Diving System onboard **Toisa Paladin**, on behalf of charters, Integrated Subsea Services.

M3ME were also contracted to undertake **Annual DP Trials for Bourbon's Liberty 200 series** and Newcruz Offshore Marine's **fleet of DP2 vessels** in 2012.

M3ME also have an agreement in place with POSH to provide **Annual DP Trials** services for POSH's **fleet of DP2 vessels**.



Toisa Paladin

# ILLUSTRATION 15

## Key Deliverables

Project	Management of Sea Trials
Vessels	<b>DB-50 – ABS Class DP2</b> Heavy Lift, Deepwater Lowering and Pipelay Barge
	<b>ARV3 – BV Class DP2</b> Accommodation and Repair Vessel
Period	April 2012 – March 2013



McDermott's DB-50

## Project Overview:

M3ME were requested by Sembawang Shipyard to act as **Trials Manager / Co-ordinator** for the complete sea trial and DP FMEA Proving Trials of the modified McDermott's DP Equipment Class 2 Heavy Lift, Deepwater Lowering and Pipelay Barge, Derrick Barge 50, hereafter referred to as **DB-50**.

The trials for **DB-50** were to be carried out following modifications to the vessel that included the installation of new diesel generators, power generation systems, thrusters and an integrated electrical and control systems package including a new DP control system.

In addition, M3ME were also engaged by Sembawang to **review the FMEA** and perform a similar scope of work for the **ARV3**, a 180m BV Classed DP2 Accommodation & Repair Vessel. Sembawang has secured a contract from Equinox Offshore Accommodation Limited to convert the ropax vessel to a DP2 Accommodation and Repair Vessel (ARV).





# ILLUSTRATION 16

Key Deliverables	MT6024 120.8m DNV Class DP2 DSV
Project	FMEA Review for 7210 – ABG Project Consultancy Services Revise and update initial FMEA Preliminary Saturation Diving System FMEA FMEA – Saturation Diving System
Period	2011 – Present (On-going)

## Project Overview:

M3ME were first engaged by LexMar Engineering to undertake the **FMEA for ABG 1** in 2011, followed by **Consultancy Services** in 2012. The following year, we were once again contracted to **review and update the initial FMEA** completed in 2011.

Subsequently, M3ME have also undertaken **Preliminary FMEA and FMEA for the Saturation Diving System** which will be installed onboard MT6024, 120.8m, DNV Class, DP2 DSV.

James Fisher and Sons plc  
Marine Services Worldwide



LEXMAR



# ILLUSTRATION 17

Key Deliverables	Polar Marquis (ex Geo Atlantic) 118.5m, DNV Class, Seismic Survey Vessel equipped for 3D and 4D seismic survey operations
------------------	--

Project	Vessel and Operations Review RP FMECA (Inc. Proving Trials)
---------	--

Period	2014
--------	------

## Project Overview:

M3ME were first engaged to provide a **Vessel and Operations Review** for **Polar Marquis**, 118.5m Seismic Survey Vessel in 2012.

Subsequently, the vessel underwent upgrade in 2014 which involved the replacement of the vessel's propulsion systems including gearboxes and shaft generators, installation of two new auxiliary diesel generators and an auxiliary switchboard. M3ME undertook the **Redundant Propulsion (RP) FMECA (Including Proving Trials)** work to ensure compliance with the DNV RP notation.



GCRIEBER



# ILLUSTRATION 18

Key Deliverables	Fjord 159.24m, DNV Class Semi-Submersible Heavy Transport Vessel
------------------	--

Project	DP FMEA (Including Proving Trials)
---------	------------------------------------

Period	2013
--------	------

## Project Overview:

M3ME were contracted by Boskalis in 2013 to deliver **Redundant Propulsion FMEA (Including Proving Trials)** onboard Fjord to ensure compliance with the DNV 'RP' notation.





# ILLUSTRATION 19

## Key Deliverables

Project	DP FMEA (Inc. Proving Trials)
Vessels	<b>Rashid Behbudov (Hull No. 392)</b> 70.0m, DNV Class High Speed Catamaran Crew Boat  <b>Pacific Kestrel (Hull No. 409)</b> 57.60m, DNV Class High Speed Catamaran Crew Boat
Period	Rashid Behbudov (Hull No. 392) August 2015 - September 2016 Pacific Kestrel (Hull No. 409) – August 2015 – October 2016

## Project Overview:

Constructed by Austal Australia for Caspian Marine Services (CMS) of Azerbaijan, M3ME was contracted by Austal to conduct a **DP FMEA** study and provide a **DP Operations Manual** for Hull 392 (Rashid Behbudov) in 2015.

Subsequently, M3ME was awarded with another DP FMEA study for a Swire Pacific Offshore project, Hull 409 (Pacific Kestrel)





# | ILLUSTRATION 20

## Key Deliverables

Project	IMCA R006, D023, D024, D040 Audit
ROV, SRP, Dive Systems	Supermohawk Triton XL 30 AOS-003 AOS-008 AOS-010 SRP-001 SRP-005 SRP-010 AS-001 AS-002 AS-005 AS-007
Period	2016, ongoing

## Project Overview:

M3ME was first contracted by Advanced Offshore in 2014 to conduct an **IMCA D023** audit of Air Spread-007. Since then, Advanced Offshore has become a repeat Client.

M3ME has completed **IMCA D023, D024, D040 and R006 Audits** for various Air Dive Spreads, Scuba Replacement Rods (SRPs) and Remotely Operated Vehicles (ROVs) in 2016.



# ILLUSTRATION 21

## Key Deliverables

Clients	BP Exploration (Caspian Sea) Limited Elvay Neftegaz CJSC (BP Sakhalin) BP Shipping (Singapore and Indonesia)
Project	<b>Provision of Marine Consultancy Services</b> <b>Vessel Assurance</b> <b>DP Mentoring and Logistics Management</b> Inspections Ensuring vessels are built to specifications and compliant with Class and flag requirements. Mentoring Indonesian crew DP FMEA Trials Condition Survey Desktop Valuation
Period	2005 – Ongoing

## Project Overview:

M3ME's involvement included attending to vessels under construction; undertaking detailed inspections of the vessels and providing photographic records; participating in meetings with the yard, Owner and client representatives and people in charge of vessel construction; working with client and / or owners to rectify areas of technical conflict; ensuring that ships are being built to specifications and are in compliance with Flag and Class rules and that materials used are fit for purpose; and finally, M3ME also worked to ensure that vessels are not only built to industry standards and best practices but are also in line with Client's 'Golden Rules' of safety so as to maintain a safe working environment.

Towards the end of 2014, M3ME were engaged by **BP Singapore** to conduct **desktop valuations** and **condition surveys** for double hull bunker tankers, **MT Oprah** and **MT Unika**.

**"M3 Marine Expertise has been audited and approved to BP Marine's exacting standards."**



*Caspian Protector*

# ILLUSTRATION 22

## Key Deliverables

Project	3rd Party Vessel Inspections and On/Off Hire Survey	
Vessels	Crest Angelica Deep Orient Ena Treasure Ena Jade Era Berdikari FOS Leo FOS Gemini Jaya Crystal Jaya Chieftain Loch Seaforth Logindo Stout Mermaid Investigator PW Reliance Pacific Vigour	POSH Champion POSH Constant Pacific Valour Swissco Sabre Swissco Topaz Sea Supra SMS Explorer Seacove Knight Winposh Regent Winposh 3301 Winpan CB1 Winposh Resolve Winpost Rampart
Period	2013 – Present (On-going)	

## Project Overview:

M3ME were requested by Sembawang Shipyard to act as **Trials Manager / Co-ordinator** for the complete sea trial and DP FMEA Proving Trials of the modified McDermott's DP Equipment Class 2 Heavy Lift, Deepwater Lowering and Pipelay Barge, Derrick Barge 50, hereafter referred to as **DB-50**.

The trials for **DB-50** were to be carried out following modifications to the vessel that included the installation of new diesel generators, power generation systems, thrusters and an integrated electrical and control systems package including a new DP control system.

In addition, M3ME were also engaged by Sembawang to **review the FMEA** and perform a similar scope of work for the **ARV3**, a 180m BV Classed DP2 Accommodation & Repair Vessel. Sembawang has secured a contract from Equinox Offshore Accommodation Limited to convert the ropax vessel to a DP2 Accommodation and Repair Vessel (ARV).

# MCDERMOTT



Deep Orient 1

# | ILLUSTRATION 23

## Key Deliverables

Project	Marine Production Audits of Offshore Installations Expert Opinion on Incident Reports
Offshore Installations:	FPSO Umuroa FPSO Pohokura FPSO Raroa Production Platform Maui A Production Platform Maui B Maari Wellhead Platform
Period	September 2011 – January 2012

## Project Overview:

M3ME were contracted by Maritime New Zealand to conduct a series of **Marine Protection Audits** of several offshore installations in accordance with applicable legal and industry standards applicable to offshore installations operating in New Zealand waters as set out in their Maritime Protection Rules Part 200 and its implemented Amendments. M3ME were further requested to provide **Expert Opinion** on various Incident Reports.





# ILLUSTRATION 24

## Key Deliverables

Project	DP FMEA (Inc. Proving Trials and DP Operations Manuals) On-Going Technical Consultancy Conceptual Design Reports
Vessels	<b>Stanford Mustang (MW625-1)</b> 50m, ABS Class, DP2 AHT <b>6 x MW622 Series</b> 60m, ABS Class, DP2 PSV <b>8 x MW629 Series</b> 75m, ABS Class, DP2 PSV <b>5 x MW619 CD Series</b> 88.70m, ABS Class, DP2 PSV <b>2 x MW626 Series</b> 86m, ABS Class, DP2 MPSV <b>2 x Maintenance Work Vessel</b> 59.60m, ABS Class, DP2 <b>MAC Motel</b> 89m, ABS Class, DP2 OSV <b>Mining Vessel</b> 227m, ABS Class, DP2 SSMV/OCV <b>MAC Griffin</b> 59.6m, ABS Class, DP2 OSV <b>CSS Temis</b> 84m, ABS Class, DP3 Accommodation
Period	2013 – Present (On-going)

## Project Overview:

M3ME were initially engaged in 2013 to undertake **DP FMEA (including Proving Trials and DP Operations Manual)** for **MW625-1** which was delivered to owners, Marine Assets Corporation (MAC) in April 2014 and has since been renamed as Stanford Mustang.

M3ME were further contracted by Fujian Mawei Shipbuilding to produce **DP FMEA (including Proving Trials and DP Operations Manuals)** for **6 x MW622; 8 x MW629; 5 x MW619 CD series of PSVs, 2 x MW626 86m MPSV** as well as the recently awarded **2 x 59.60m Maintenance Work Vessel**.

M3ME have been providing **On-Going Technical Consultancy** for the **MAC Motel** and the **Subsea Mining Vessel** projects since early 2014 and were subsequently engaged by owners to produce the **Conceptual Design Report(s)** for the 89m **MAC Motel** and the 227m Subsea Mining Vessel. Both are DP2, ABS Class vessels. Towards the end of 2014, Fujian Mawei Shipbuilding awarded the **DP FMEA (inc. Proving Trials and DP Operations Manuals)** for both vessels to M3ME.



# ILLUSTRATION 25

## Key Deliverables

Project The Kea Trader was grounded in New Caledonia and M3 Marine Expertise was contracted by Ardent Salvage (the appointed salvor) to assist in assessing the condition of the vessels prior to charter.

Period 2017



## Key Deliverables

Project Condition Surveys on-board SSE Jerome and Lanpan 34

On-hire Surveys on-board SSE Jerome and Lanpan 34



# ILLUSTRATION 26

Key Deliverables	Towage Suitability Survey
Project	Assess towage vessels' suitability for the towage of Lewek Centurion from Paxocean's yard, Batam to MMHE's yard, Malaysia.
Period	July – August 2017



## Project Overview:

Provision of operational, technical, commercial and strategic advice including but not limited to:

- Conduct Towage Suitability Survey onboard the vessels
- Produce Towage Suitability Survey Report
- Issue Towage Approvability Certificates
- Technical Consultancy on the towage plan
- Brokerage service for chartering of towage vessel
- Provide commercial advice on vessels' charter rate for the tow



# ILLUSTRATION 27

Key Deliverables	Expert Witness
------------------	----------------

Project	Expert Witness Work relating to Client's vessels
Client	Pacific Radiance
Period	May 2018 – On-going

## Project Overview:

- Undertake Expert Witness work in support of legal claims.
  - Dynamic Positioning
  - Ship Building
  - Valuation
- M3ME represent our clients at Arbitration in Hong Kong



## Pacific Radiance wins arbitration over cancelled PSV

May 21st, 2019 12:54 GMT  
by Gary Dixon

Singapore owner Pacific Radiance has won an arbitration award against a Chinese shipyard in a case involving two cancelled platform supply vessels (PSVs).



**SWS contests Pacific Radiance cancellation**

[Read more](#)

Its joint venture company CA Offshore Investment Inc (CAOI) had been seeking refunds from Shanghai Waigaoqiao Shipbuilding & Offshore (SWS) and China Shipbuilding Trading.

For the first of the two vessels, H1350, a Hong Kong arbitrator has made an award in favour of CA for the refund of the pre-delivery instalments amounting to \$2.775m, together with contractual interest.

Arbitration continues over the second unit.



The deal for the ships was scrapped by the Singapore shipowner in November 2016 after it alleged the yard had failed to deliver them as specified.

The company ordered the vessels in 2013 as part of its then fleet expansion project and they were slated for delivery in the fourth quarter of 2015.

SWS contested the case and launched counter-claims against CA.

It wanted the balance of the contract price paid, and/or damages plus interest and costs.



# ILLUSTRATION 28

Key Deliverables	Expert Witness
Project	Expert Witness Work in support to Client's case in relation to the vessel 'NTT Lumut'
Client	Nautilus Tug & Towage Sdn Bhd
Period	January 2018 – March 2019

## Project Overview:

M3ME was consulted by Nautilus Tug & Towage to review the 'NTT Lumut' case and to provide expert advice including but not limited to:

- Undertake Expert Witness work in support of Clients' legal claims.
- Provision of general marine and vessel related technical, operational and commercial advice.
- Represent the Client at the High Court, Kuala Lumpur, Malaysia.



Shin Yang Shipyard's subsidiary, Piasau Slipways, has completed two tugs designed for operations within the Malaysian iron ore industry.

Malaysian company Nautilus Tug and Towage will operate both the tugs. The 55-tonne tugs are part of a series of escort tugs being designed and built in

Malaysia for the purpose of berthing, unberthing and escorting operations at the iron ore terminal in Teluk Rubiah in the coastal town of Lumut.

The vessels' hull and the extended escort skeg present a high lift, and a streamlined double chine is designed to meet bollard pull, indirect forces and speed requirements when handling the Valemax fleet of very large ore carriers (VLOC).

The beamy hull at 12 metres provides additional stability during escorting. The tug's azimuth thrusters can be removed without drydocking.

Twin Daihatsu engines are installed in the tugs along with twin Kawasaki thrusters.

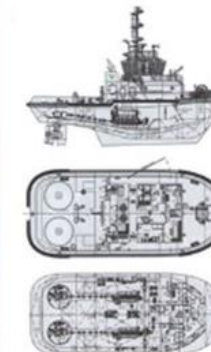
Generating a direct bollard pull of 60 tonnes ahead and 58 tonnes astern, its indirect forces are in excess of 80 tonnes when traveling at seven knots.

The tugs have a fuel capacity of 135m³ and a freshwater capacity of 115m³.

The two tugs are also equipped with full fire-fighting capabilities and dispersant booms for oil pollution measures.

For further information contact:

Shin Yang Shipyard, Malaysia  
Email: newbuild.sycorp@shinyang.com.my  
Web: www.syshippingcorp.com.my



S4 May 2015 WORK BOAT WORLD

'NTT Lumut' and 'NTT Larut' SPECIFICATIONS	
Type of vessel:	ASD Harbour tug
Home port:	Port Klang, Malaysia
Owner:	Nautilus Tug and Towage, Malaysia
Designer:	Naval Arch Marine, Malaysia
Builder:	Piasau Slipways, Malaysia
Hull construction material:	Steel
Length overall:	28 metres
Beam:	11.80 metres
Depth:	5.0 metres
Tonnage:	379GRT
	114NRT
Main engines:	2 x Daihatsu 60RM – 264FL, each 1,800kW @ 750rpm
Generators:	2 x Caterpillar QSM3, each 200kW @ 1,500rpm
Side thrusters:	2 x Kawasaki Engelco KSL-200JC-51
Cruising speed:	12 knots
Bollard pull:	60 tonnes ahead, 58 tonnes astern
Literals:	2 x 15psi
Fuel capacity:	135m³
Freshwater capacity:	115m³
Crew:	12

# ILLUSTRATION 29

**M3ME** undertakes various audits, surveys and inspections such as IMCA CMID audits, OCIMF OVID audits, Pre-Purchase Condition surveys, On-hire, Off-hire, Suitability and Towage Approval surveys for owners, keen buyers and sellers and other interested parties.

## Clients (OCIMF OVID / Pre-OVID Audits)

- Belait Shipping
- BGP Marine, CHNPC
- Greatship Global
- GulfMark
- Hallin Marine
- Intership
- McDermott
- Seascope
- Sealion

## Clients (IMCA CMID / Pre-CMID Audits)

- BP
- Bibby Offshore
- Bluestone Offshore
- Daewoo International Corporation
- Farstad Shipping
- GC Rieber
- Hallin Marine
- Kreuz Subsea
- POSH
- Stena Drilling
- Sapura

- Swire Pacific Offshore (SPO)
- Seascope
- Swiber / Newcruz / Vallianz
- Sapura

## Clients (IMCA D023 / D024 Audits)

- PT. Advanced Offshore
- Hallin Marine
- Integrated Subsea Services (ISS)
- Noel Dive
- LexMar Engineering

## Clients (IMCA R006 Audits)

- Seascope

## Clients (Surveys /Inspections)

- Allied Marine & Equipment (AME)
- Bibby Offshore
- Bumi Armada
- BOURBON
- Boskalis
- Caspian Marine Services

- Allied Marine & Equipment (AME)
- Bibby Offshore
- Bumi Armada
- BOURBON
- Boskalis
- Caspian Marine Services
- Costal Marine
- DOF Subsea
- Eagle Energy
- ENSCO
- Fugro
- Fast Offshore Supply (FOS)
- Fortress
- Frontera
- GC Rieber
- Fast Offshore Supply (FOS)
- GAC
- HARPS Holdings
- Hartmann Offshore
- Hallin Marine
- Hydrodive
- Incisive Law

- Leighton
- McDermott\*\*
- Miclyn Express Offshore
- POSCO Daewoo Corporation
- POSH
- Sarost Group
- Seascope
- ST Marine
- Stena Drilling
- Swire Pacific Offshore (SPO)
- Swiber / Newcruz / Vallianz
- Triton Maritime
- VM Marine
- Workboats Northern Australia
- Yarnell Marine

# ILLUSTRATION 30

**M3ME** undertakes FMEA work including FMEA Production, FMEA Review FMEA Assistance, DP vessel services, Annual DP trials and audits for various Offshore & Renewables Support Vessels and Dynamic Positioning Systems.

## End Users

- BP
- BHP Billiton
- Chevron
- ConocoPhillips
- Maersk Oil
- Murphy Oil
- Nippon Steel & Sumitomo Metal
- Petrobras
- Petronas
- Pemex
- POSCO INTERNATIONAL Corporation
- Premier Oil
- Shell
- Saudi Aramco
- Saipem
- Total
- Woodside





# COMMERCIAL CONSULTANCY

## PROJECT ILLUSTRATIONS



# ILLUSTRATION 01

Key Deliverables	Strategic, Operational, Technical and Commercial advice
Project	Project Dolphin The code name for a Merger & Acquisition project between two major players in the maritime industry. The project was worth approximately SGD 1.4 Billion
Period	January 2008 – September 2008



## Project Overview:

Provision of strategic, operational, technical and commercial advice including but not limited to:

- Potential exit / sale strategies (in part or total)
- A high level review of the OSV market and an analysis of industry dynamics
- Attractiveness of the OSV market, including barriers to entry and key success factors
- Potential acquisition and other expansion strategies
- A review and assessment of the Client's operations and business including, inter alia:
  - Fleet quality vis-à-vis other competitors
  - Quality of management
  - Fleet replacement and capital expenditure
  - Quality of operations
  - Newbuild strategy
  - Quality of customers and contracts
- An overview of strengths and weaknesses compared to competitors
- Information on current average charter rates & utilization rates in the South East Asian and Middle East Regions, as well as a description of the historical movements
- Commentary on future trends and market potential for the OSV market
- Supply of OSVs supplier details and availability
- Coordinate, engage and manage approved sub-contractors and consultants for the purpose of undertaking technical and operational due diligence (including physical inspection and survey of vessels and yard, shore management and workshop facilities).

# | ILLUSTRATION 02

Key Deliverables	Strategic, Operational, Technical and Commercial advice
Project	Project Marlin The code name for a Commercial Due Diligence project for a potential acquisition of an OSV player in the maritime industry. The project was worth approximately A\$199 Million (\$207.33M)
Period	August 2012 – October 2012

**CHAMP**  
PRIVATE EQUITY

## Project Overview:

Provision of strategic, operational and commercial advice including but not limited to:

- Building of Model Assumptions Book which covers the financial model assumptions and scenarios
- Provide a high level summary of the level and nature of competition that Marlin faces in each of its markets
- Provide a detailed assessment of who Marlin's key competitors are in the OSV and crew boat segments and assess Marlin's market position, its market share and the level of fragmentation in OSV and crew boat markets in each region
- Provide a high level summary and assessment of the fleet strategy that Marlin is pursuing and compare/contrast with the strategies being pursued by major offshore support services companies
- An assessment of Marlin's operational practices including internal processes, management systems and risk mitigation practices
- Provide a high level overview of Marlin's processes and strategies to win new major customers
- An overview of asset valuation and asset quality
- An overview of how Marlin decides what types of vessels to build in its shipyard and the typical approach to chartering vessels the company is building itself

# | ILLUSTRATION 03

Key Deliverables	Corporate and Commercial Consultancy
------------------	--------------------------------------

Project	Project Elena and various The code name for a Commercial Due Diligence project for a potential acquisition of an OSV player in the maritime industry.
Period	2014

## Project Overview:

Provision of corporate and commercial advice including but not limited to:

- Potential valuation for the Target Business
- Target Business' business plan and financial projections
- High level review of the OSV market and an analysis of industry dynamics
- Potential acquisition and other expansion strategies that the Target Business could pursue



Key Deliverables	Corporate and Commercial Consultancy
------------------	--------------------------------------

Period	2014
--------	------

## Project Overview:

- Provide consultancy with regards to the Indonesian Construction Support Vessel (CSV) market and barriers of entry to the market
- Assessing the client's market strategy and comparing to key competitors
- Detailed profile of the potential competitors in the market



# | ILLUSTRATION 04

Key Deliverables	Corporate and Commercial Consultancy
Project	Residual Valuation Report
Period	June 2014 – Present

## Project Overview:

- An estimated OSV value report for the year, to be updated bi-annually
- Drivers for 2nd hand value for OSVs
- 2nd hand values of OSVs for the list of vessels below dating back to 2 decades – 80's and 90's and current
- Values vs term rates
- Comparison between the older and resale values vs newbuilding (to account for differentiation of the newer and higher specification vessels and new engine types)



Key Deliverables	Market Study / Market Research
Project	Depreciation Schedule, Market Demand / Supply Dynamics
Period	April 2014 – May 2014

## Project Overview:

Provision of corporate and commercial advice including but not limited to:

- Depreciation Schedule – provide an 'expected' depreciation schedule (or an estimate of forward looking valuations over the next five or ten years) for all vessels listed
- Market Demand/Supply Dynamics for the different segments of vessels
- Recent and projected evolution of utilisation levels, day rates, second hand valuations, ease of leasing/releasing, and new build orders.
- Insights on the reputation/stability of the respective counterparties based on the list of charterers as provided.





# ILLUSTRATION 05

Key Deliverables	Market Study / Market Research
Project	Various projects
Clients	One World Maritime Boston Consulting Group Gerson Lehrman Group Research Standard Chartered Bank PT Asian Bulk Logistics



## Project Overview:

Quality, reliable and ‘customised’ commercial reporting and research was undertaken and delivered on various aspects of the OSV market, including:

- Demand & Supply Factors (macro fundamentals, global event indicators, upstream costs, credit markets etc.)
- OSV Charter (Time / Bareboat) Rates
- OSV Utilization Rates
- OSV Sale and Purchase values
- Offshore Key Players (local and international / global players) and their latest activities
- Offshore Ship building yards
- Latest developments / trends in the OSV industry (e.g. move towards deeper water drilling)
- Attractiveness of the OSV market, including barriers to entry and key success factors
- OSV Types / Markets:
  - Tugs, Barges, AHTs, AHTSs, PSVs, DSVs, Pipe lay / Cable lay Barges, Accommodation Work Barges, Crew / Utility Boats etc



# ILLUSTRATION 06

Key Deliverables	Expert Witness
Project / Vessels	Various
Clients	Asia Legal Allen & Gledhill Caitlin Clyde & Co Gurbani & Co Haridass Ho and Partners Hill Dickinson HolmanFenwickWillan (hfw) Ince & Co JTJB LLP KordaMentha Mermaid Marine Australia Otto Ventures RSA Group ReedSmith The Britannia Steam Ship Insurance Association Thomas Cooper Wikborg Rein

## Project Overview:

- Undertake Expert Witness work in support of legal and insurance claims for owners, law firms and insurance claims companies.
- Nature of dispute includes charter party disputes (bareboat, voyage), time charter rates, salvage, newbuilding and related contractual disputes and telecoms / subsea cable damages.
- We represent our clients at Negotiations, Mediation, Arbitration (Singapore and London) and the High Court



# | ILLUSTRATION 07

Key Deliverables	Professional Consultancy and Advisory Services
Project	Various Projects in support of the Client's legal work
Period	December 2016 – Ongoing

Allen & Gledhill

## Project Overview:

Provision of operational, technical, commercial and strategic advice including but not limited to:

- Assistance with locating missing diving equipment for a subsea construction & diving support vessel
- Assistance with retrieval of stingers for a pipe laying vessel
- Condition and towage approval survey of vessel and equipment onboard
- Tow Master service
- Attendance during lifting of stingers, cranes and diving systems
- Asset valuation service
- Brokerage service for sale and purchase of equipment



# | ILLUSTRATION 08

Key Deliverables	Expert Placement
Project / Vessels	Various
Clients	Wintermar POSH Mermaid Marine Australia

## Project Overview:

- Our Expert Placement services are backed by a team of marine and engineering professionals, predominantly Class 1 Master Mariners and Chief Engineers, who are highly trained in specialised disciplines including dynamic positioning (DP) and dive support operations, offshore construction and installation, HSE auditing and competence assurance, emergency planning, Auditing, Tow Masters, Barge Masters and Foreman and Warranty Surveyors. Our unique organizational structure allows us to tap into our Expert network and arrange 'specialist placements' within a short time-frame to meet Clients' operational needs.





# | ILLUSTRATION 09

Key Deliverables	Professional Consultancy Services
Project / Vessels	Various Projects in support of the Client's potential acquisition work on the 'Target Business'
Clients	PT Hanochem Tiaka Samudera



## Project Overview:

Provision of technical, commercial and strategic advice including but not limited to:

- Providing a high level of overview of the oil and gas industry and the key market drivers in both upstream and downstream.
- Conducting study on industry regulations of the local market where the Target Business operates.
- Professional advice on the potential valuation for the Target Business's business plan, fleet operation, client base, financial trend analysis, acquisition and expansion strategies etc.
- Competitors' analysis for the Target Business in the aspects of fleet composition, fleet deployment strategy, charter and utilisation rates and financial performance.
- Asset valuation including condition survey for the fleet of the Target Business.

# | CONTACT US



**T: +65 6327 4606 (24 Hrs)**

**F: +65 6221 4606**

**Capt. Mike Meade, CMMar FNI MICS**

**Group CEO**

E: [mike@m3marine.com.sg](mailto:mike@m3marine.com.sg)

M: +65 9128 5760

## M3 Marine (Offshore Brokers) SG

E: [mail@m3marine.com.sg](mailto:mail@m3marine.com.sg)

**Mark Colbridge, Executive Director**

E: [mark@m3marine.com.sg](mailto:mark@m3marine.com.sg)

M: +65 9450 6269

**Sophia Low, Director & Lead Broker**

E: [sophia@m3marine.com.sg](mailto:sophia@m3marine.com.sg)

M: +65 9177 7737

**Mili Verma, Broker**

E: [mili@m3marine.com.sg](mailto:mili@m3marine.com.sg)

M: +65 9673 4130

## M3 Marine (Offshore Brokers) UK

E: [mail@m3marine.co.uk](mailto:mail@m3marine.co.uk)

**Rob Day, Managing Director**

E: [rob@m3marine.co.uk](mailto:rob@m3marine.co.uk)

M: +44 (0) 7587 718200

**Charlie Long, Director**

E: [charlie@m3marine.co.uk](mailto:charlie@m3marine.co.uk)

M: +44 (0) 7426 780227

## M3 Marine Valuations

E: [valuations@m3marine.com.sg](mailto:valuations@m3marine.com.sg)

**MiLi Chung, Business Manager**

E: [mili.c@m3marine.com.sg](mailto:mili.c@m3marine.com.sg)

M: +65 9777 2389

**Julianna Chua, Senior Business Analyst**

E: [julianna@m3marine.com.sg](mailto:julianna@m3marine.com.sg)

M: +65 9017 8761

## M3 Marine Expertise

E: [expert@m3marine.com.sg](mailto:expert@m3marine.com.sg)

**Joey Fisher, Managing Director**

E: [joey@m3marine.com.sg](mailto:joey@m3marine.com.sg)

M: +65 9863 5515

**Alex Brabin, Projects Director**

E: [alex@m3marine.com.sg](mailto:alex@m3marine.com.sg)

M: +65 9671 7333

**Geen Panganiban, Commercial Manager**

E: [geen@m3marine.com.sg](mailto:geen@m3marine.com.sg)

M: +65 8125 9992

**Goh Swee Cheng, Commercial Executive**

E: [swee@m3marine.com.sg](mailto:swee@m3marine.com.sg)

M: +65 9720 9725

# | M3 MARINE GROUP

☎ +65 6327 4606

✉ mail@m3marine.com.sg

📍 1 Commonwealth Lane  
#09-13 ONE Commonwealth  
Singapore 149544

☎ +44 (0) 75877 18200

✉ mail@m3marine.co.uk

📍 Office One, 1 Coldbath Square, Farringdon,  
London, EC1R 5HL

We **Live** Our Business



[www.m3marine.com.sg](http://www.m3marine.com.sg)

