



# NAVAL PORTFOLIO PRESENTATION

<https://pms-group-sas.com/>



# ABOUT US

## Colombian–German engineering serving the naval sector

✔ Bilingual Colombian–German company, specialized in the technical representation of international manufacturers and the integration of naval systems for vessels, shipyards, and maritime operations, with headquarters in 📍Bogotá and a service station in 📍Barranquilla.

✔ We act as an authorized representative and technical integrator, assuming local technical management, system integration, installation and commissioning, as well as after-sales support, accompanying the entire lifecycle of naval systems.

✔ PMS Group acts as a reliable technical interface between the manufacturer and the end user, combining German engineering methodologies with local technical expertise to execute high-complexity naval projects with a strong focus on reliability, precision, and quality.

✔ Specialists in industrial and naval engineering, operating across



Latin America



North America





## Our Services:

- Electrical and Mechanical Installations.
- Commissioning, Retrofit's and Repairs.
- Technical Troubleshooting remote and onsite.
- Project Support / Supervisor.



## Our Alliances:



Deutsch-Kolumbianische  
Industrie- und Handelskammer  
Cámara de Industria y Comercio  
Colombo-Alemana



## Our Additional Qualifications:



- Medical clearance for work in oxygen-deficient areas (e.g., confined spaces).

- ATEX training for work in explosion-proof systems and hazardous (Ex) areas.



- OEM training in maintenance, repair, and installation of packaging machinery—Stretch Wrapper systems (Strema Maschinenbau GmbH).



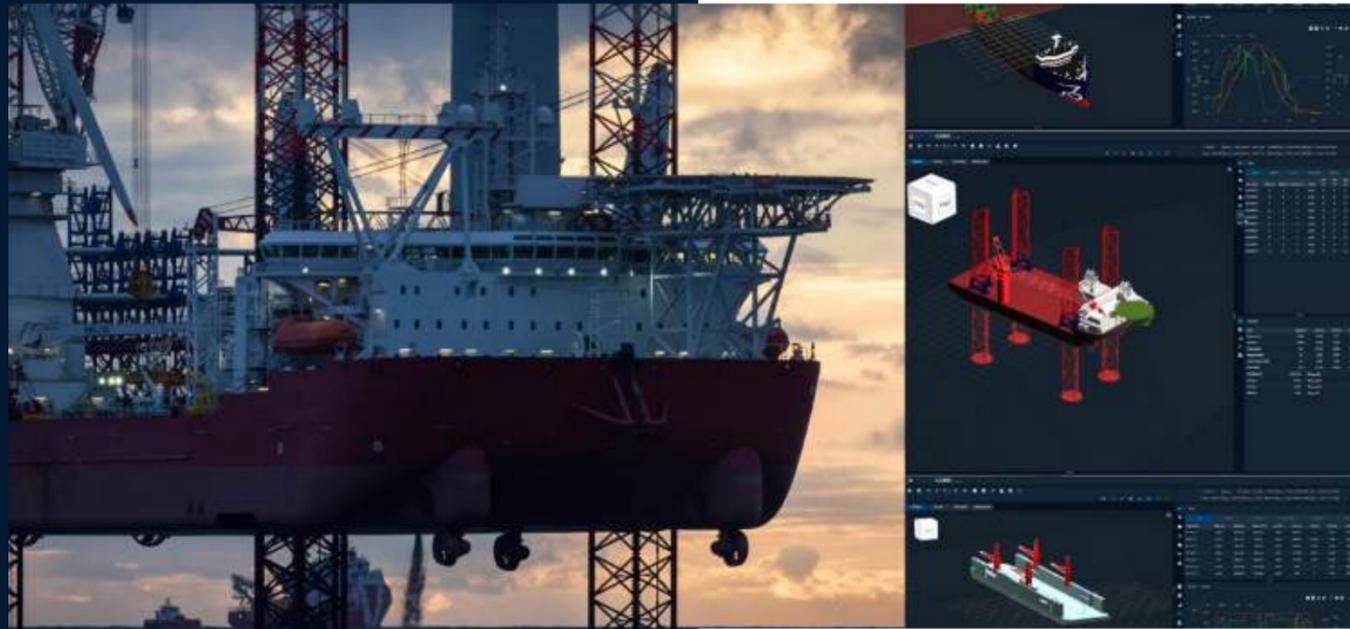
- SCC industrial safety certification (Safety Certificate Contractor).
- Compliance with international quality, safety, and environmental standards (ISO, ATEX, MARPOL, IMO).

- Working-at-heights safety training (certified).

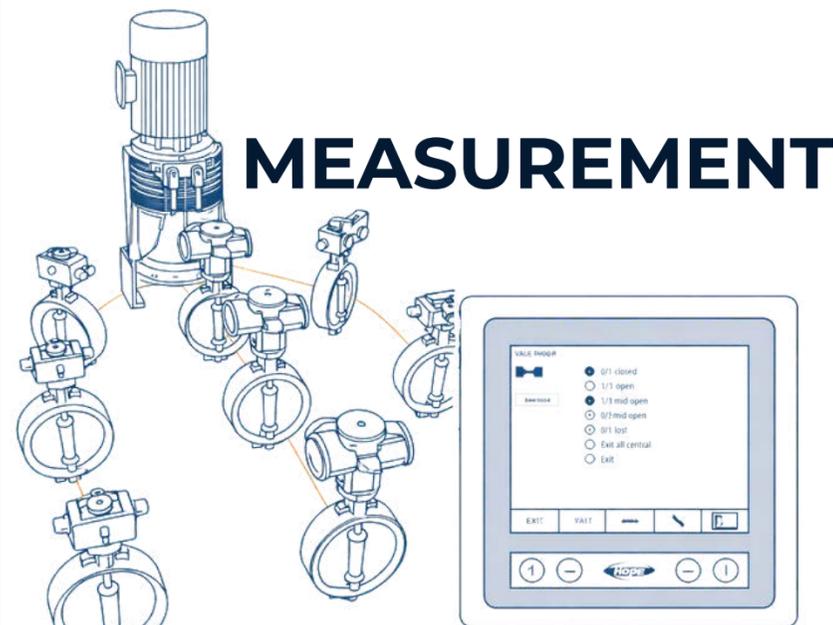


# SOLUTIONS PORTFOLIO

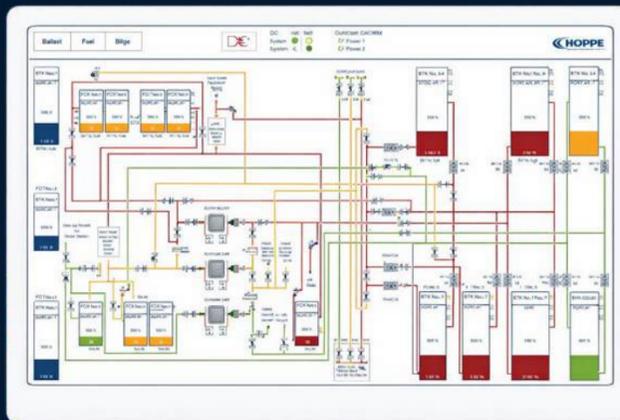




# HOPPE MARINE



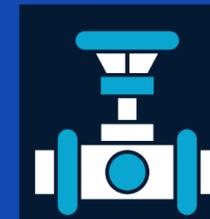
## MEASUREMENT AND CONTROL SYSTEMS



### Core Competencies – At a Glance



- Measurement and control systems for tanks and valves
- Ship motion control and stability systems
- Performance and operational data analysis for efficiency improvement
- Engineering and service solutions for modern smart shipping



### Measuring Solutions

- ✓ Tank Content Measurement
- ✓ Draught Measurement
- ✓ Maihak Shaft Power Meter & SHaPoLi
- ✓ Performance Monitoring Systems
- ✓ Fuel Consumption Measurement
- ✓ Energy Measurement
- ✓ Electronic Inclinometers
- ✓ Dynamic Draught & Floating Condition Monitoring



### Control Systems

- Valve Remote Control Systems
- Anti-Heeling Systems
- Anti-Roll Damping Systems
- Dock Control Systems
- Floating Condition Control

### Information Services

- Crew Connect, Fleet Connect, Loading Computer, Fleet Services etc.

# BECKER MARINE SYSTEMS | MANOEUVRABILITY AND EFFICIENCY



## SALES & SERVICE REPRESENTATIVE IN COLOMBIA

### Becker Marine – Core Competencies (Summary)

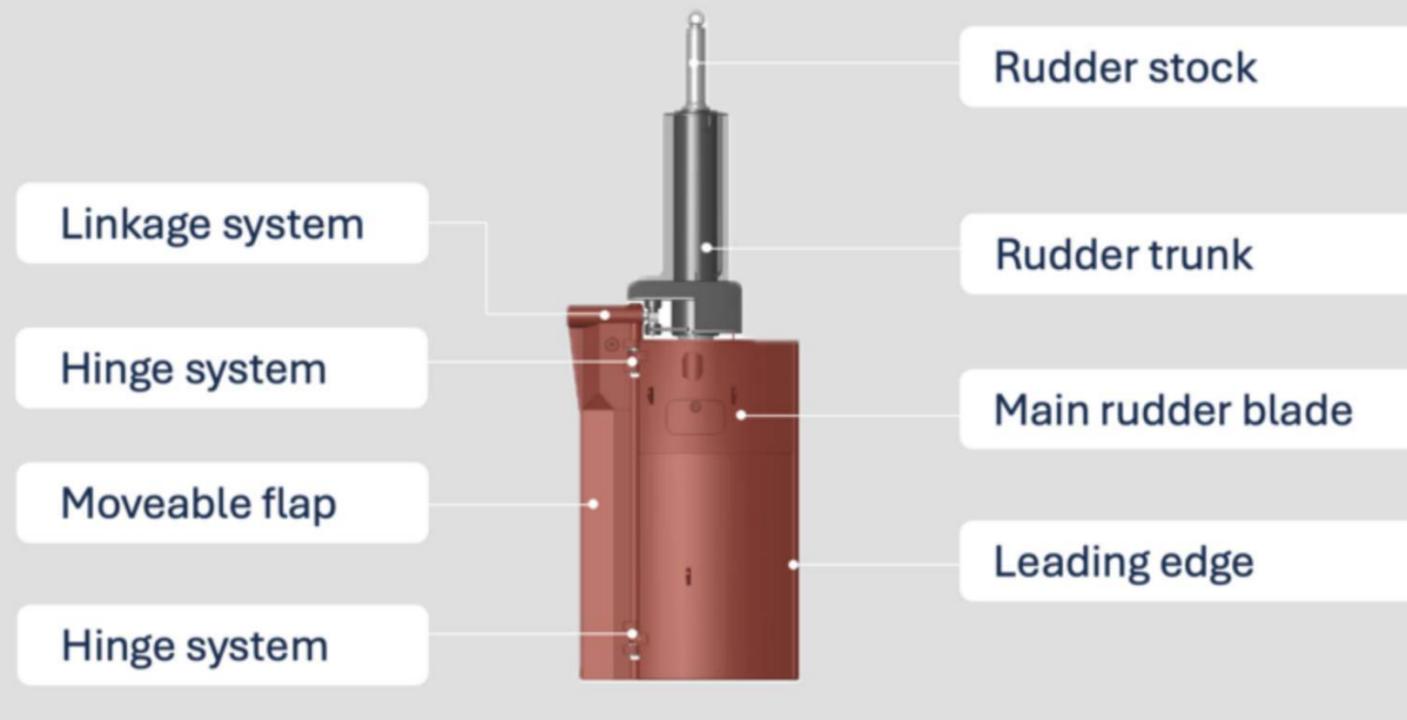
- High-performance rudder systems for optimal manoeuvrability
- Energy-efficiency and emission-reduction solutions (e.g. Becker Mewis Duct®)
- Hydrodynamic design and engineering expertise
- Retrofit, service, and lifecycle support for vessels

### Energy-Saving Devices

- Becker Mewis Duct® (for full-form slower vessels)
- Becker Twisted Fin® (for faster ships)
- Becker Performance Package (combined rudder + energy device) (Hydrodynamic devices to reduce fuel consumption and CO<sub>2</sub> emissions)

# BECKER MARINE SYSTEMS | MANOEUVRABILITY AND EFFICIENCY

## BECKER FLAP RUDDER STRUCTURE



## Becker Marine Systems – Key Systems & Products Manoeuvring Systems (Rudder & Steering Solutions)

- Becker Flap Rudder, Becker Flap Rudder with Closed Linkage
- Becker Twist Rudder / Twisted Trailing Edge Rudder
- Becker Schilling® Rudder
- Becker Nozzle (**Fixed & Steerable**)
- Rudder Bulb & Cross-Over Rudders
- Becker Bearing Monitoring System (**BBMS**)
- Becker Intelligent Monitoring System (**BIMS**)  
(**Advanced rudder solutions for enhanced manoeuvrability and efficiency**)

## Innovative Hydrodynamic Appendages

- Becker Daggerboard (anti-leeway fin for wind-assist propulsion)
- Becker Steering Gear systems)

# HARSONIC | ULTRASONIC TECHNOLOGY

Using ultrasound to prevent fouling, sustainable for the oceans, efficient for your vessel.

This technology significantly reduces cleaning and maintenance efforts and is highly effective in fresh water treatment against germs and bacteria.

**Harsonic is not only designed for ship hulls, but can also be applied to:**

- Hulls and propellers
- Box coolers, sea inlets, and filters
- Tanks (fresh water and fuel)
- Cooling and heat transfer systems
- Fresh water generators



# MARTIN MEMBRANE SYSTEMS | WATER ON BOARD

**Martin Membrane Systems** develops high-performance membrane-based water and wastewater treatment solutions for maritime, industrial, and municipal applications. The company stands for compact system design, German engineering quality, regulatory compliance, and reliable operation in demanding marine environments.

## Strengths of Martin Membrane Technology:

### Compact design:

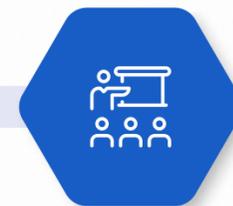
Minimal footprint, ideal for onboard installation.

### Water reuse capability:

Reduces onboard freshwater consumption.

### Customized systems:

Individually adaptable for different vessel types.



### High treatment performance:

Excellent water quality through ultrafiltration membranes – chemical-free.

### Robust & reliable:

Designed for continuous operation in demanding marine environments.

### Regulation compliant:

Meets international maritime standards (MEPC.227/29 0 and USCG).



### Service-friendly:

Easy integration, maintenance, and global support

# HMB LINTEC LIFTING SYSTEMS AND DECK MACHINERY



## Strengths:

- Comprehensive lifting and handling systems specifically designed for marine and offshore applications.
- Over four decades of experience and expertise in maritime machinery and plant engineering.



## HMB Lintec Marine GmbH

Is a German **specialist in custom-engineered lifting**, handling, and deck machinery systems for maritime and offshore applications. The company stands out for decades of experience, robust and reliable solutions, tailored engineering, and comprehensive global service support.



## Strengths:

- Customized engineering solutions tailored to individual customer requirements.
- 24/7 service and maintenance support, including spare parts supply.
- Robust, field-proven systems built to withstand the demanding conditions of shipbuilding and offshore operations.

# SMB INTERNATIONAL | SHIP LOADERS

SMB International GmbH designs and manufactures **stationary and mobile ship loading** systems for the efficient, gentle, and fast handling of **bulk materials and bagged cargo** in ports worldwide, suitable for vessels ranging from approximately **5,000 dwt to 90,000 dwt**.



## KEY FEATURES:

-  Loading of bulk and bagged materials with gentle material handling and high throughput.
-  Systems available as stationary or mobile solutions along the quay.
-  Optimized cargo hold utilization and reduced port stay due to fast loading processes.
-  Custom, project-specific designs developed and manufactured in Germany.

# NAVAL TECHNICAL SERVICES | PMS GROUP

## Engineering and integration:

- Coordination with shipyards and shipowners
- System interface management

## Installation and commissioning:

- FAT / SAT
- HAT
- Sea Trials

## Specialized naval services:

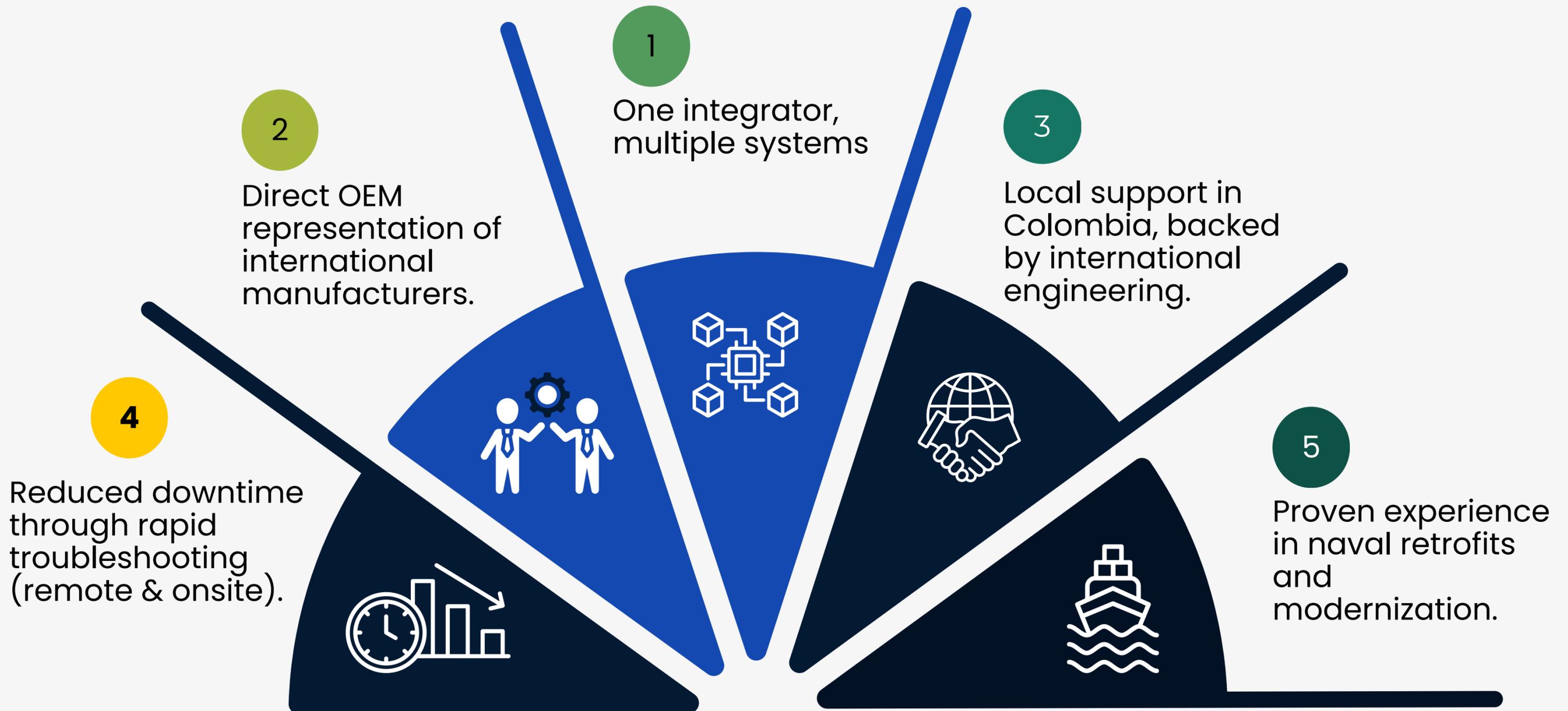
- Naval engineering and system integration
- Onboard mechanical and electrical installation
- Commissioning and testing
- Retrofit and modernization
- Maintenance and operational support

## Maintenance:

- Port support
- Spare parts
- Operational assistance

# PMS GROUP ADDED VALUE | NAVAL

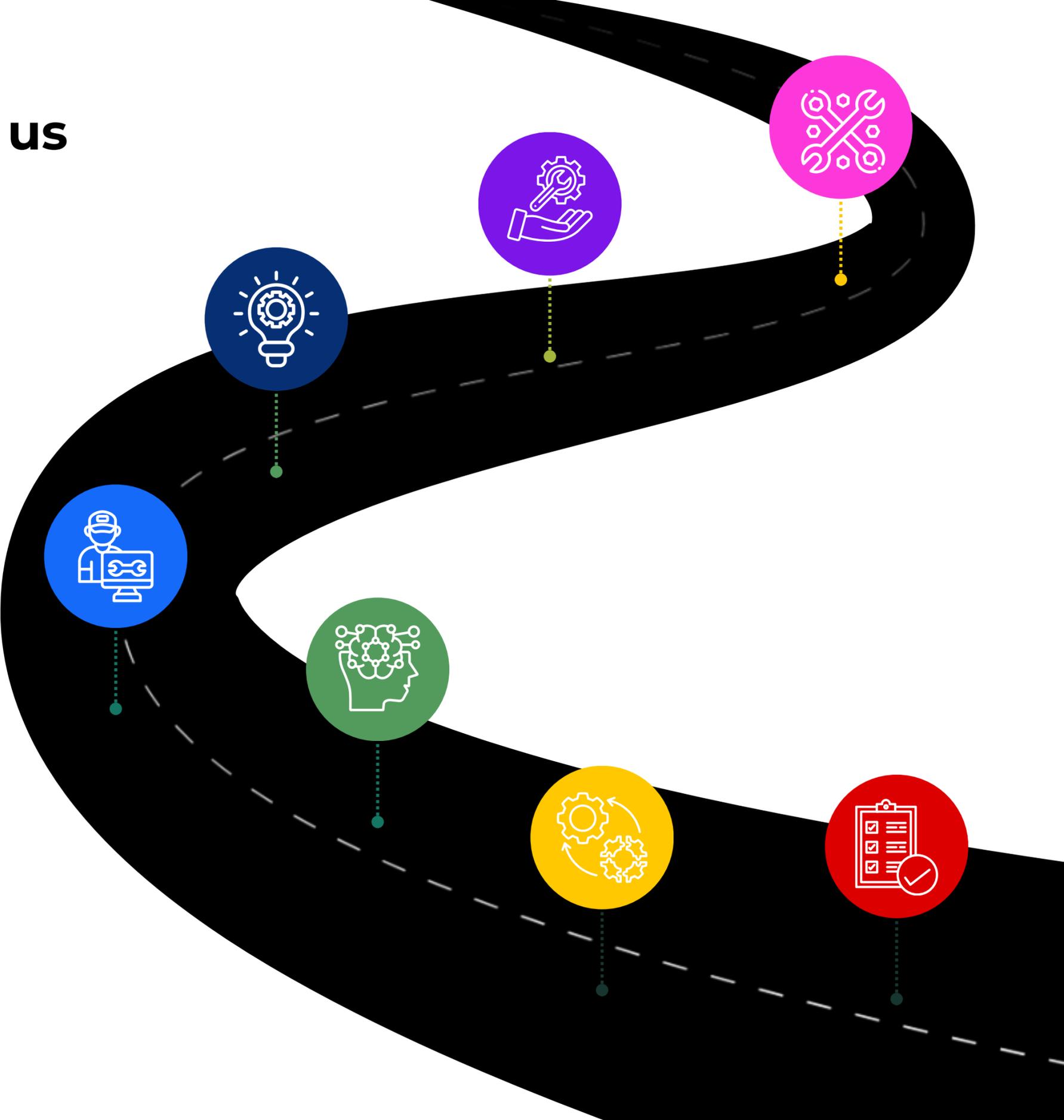
## Why PMS Group



# What clients can source from us

PMS GROUP SAS

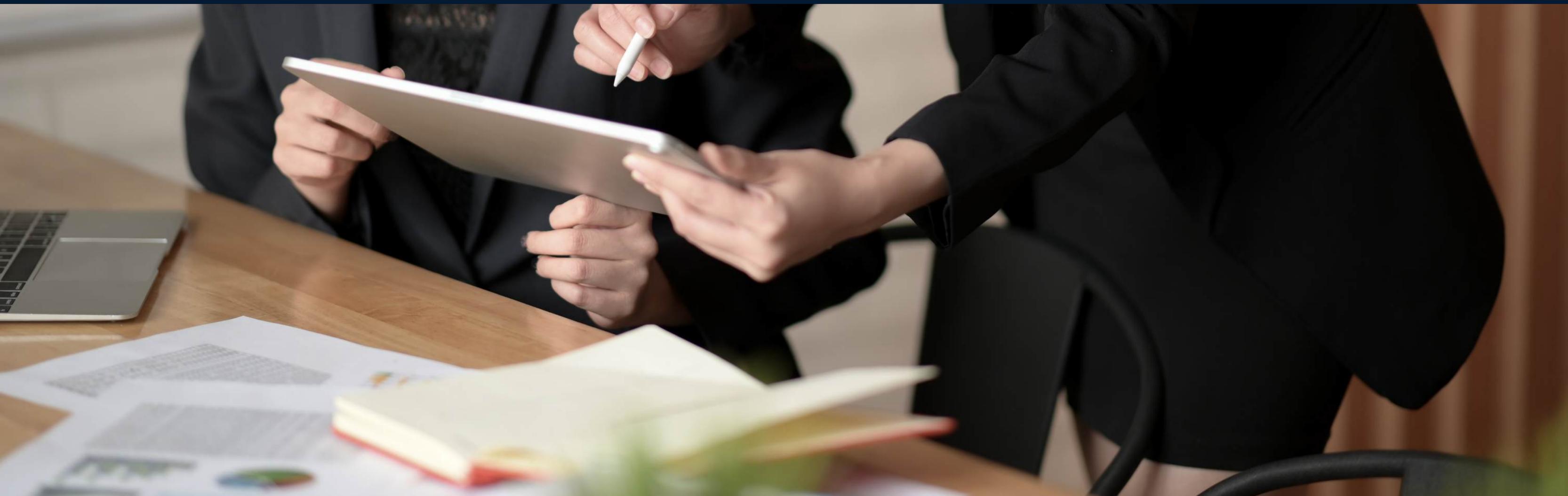
- Complete systems
- Equipment and components
- Engineering and system integration
- Installation and commissioning
- Retrofit and modernization
- Maintenance and support
- Spare parts and technical assistance



# CASE STUDY

Electrical installation, assembly, and commissioning of the grey water system onboard the Ama Magdalena river cruise vessel, including technical support and maintenance services for Ama Waterways.

**PMS GROUP SAS** positions itself as a strategic technical partner for the naval sector, capable of integrating international technology, specialized engineering, and local support, delivering reliable and efficient solutions aligned with the operational, regulatory, and environmental requirements of the maritime industry.



# YOUR STRATEGIC PARTNER IN NAVAL PROJECTS



## CONTACT US

 [info@pms-group-sas.com](mailto:info@pms-group-sas.com)

 Colombia, Bogota/Barranquilla

 +57 314-281-2789

 <https://pms-group-sas.com/>

