



Project Management: From Tender Specification to New Build Delivery

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Agenda for Presentation

- Introduction to Maritime Survey Australia

- Vessel Procurement Steps and Benefits

- Project Management

- Recent New Build/Refit Experience



Introduction to Organization

What we do, and why work with us?

• Tender Specification & Evaluation	• Vessel Procurement
• Maritime Consultancy	• New Build & Refit Project Management
• Condition and Valuation Surveys	• Stability Assessments
• Naval Architectural Services	• Plan Approval Services



Major clients

- Department of Defence
- NSW Roads and Maritime
- Australian Border Force
- Serco Defence
- Port Authority NSW
- Transdev Sydney Ferries
- Maritime Constructions
- KAUST

MSA Group
Australia - New Zealand

MSI Group
International



Vessel procurement - Where do we start!

1. Needs & operation analysis

Understand Operational Needs
Early Engagement
Operational Review
Key Vessel Requirement Identify necessary features
Future-Proofing: Consider potential future needs and scalability.

4. Delivery & Commissioning

Acceptance Trials: Conduct comprehensive trials to ensure all specifications and performance requirements are met.
Operational Testing: Crew Training
Final Handover



2. Specifications & Tendering

Develop Specifications: Create detailed Function and Performance Specifications (FPS) based on operational analysis.

Release Tender

Stakeholder Collaboration

Tender Evaluation: Establish criteria to assess submissions and manage bidder inquiries.

3. Contracting & Construction

Evaluate & Award.

Construction Oversight

Operator Involvement: Ensure continuous feedback from operators during construction.

Special Equipment Integration: Oversee the integration of key vessel requirements, such as cranes, helipads, or ROVs.

Vessel Procurement Process - Benefits

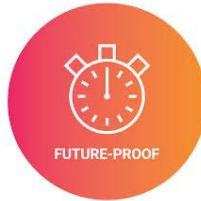
Major Benefits of Completing a Comprehensive Vessel Procurement Strategy

Optimized Vessel Performance: By thoroughly understanding operational needs and performance requirements, the vessel is designed and built to meet specific missions, ensuring it performs optimally in its intended environment.

1. Cost Efficiency



2. Future-Proofing



3. Risk Mitigation



4. Enhanced Operational Readiness



Newbuild project approach and program



Compliance and performance specification i.e:
NSCV / Class
Noise, scientific equipment



Construction
Success requires attention throughout the design and construction phases



Successful design

- Requires planning and follow-through
- Must start at early stages
- Review Plan Approval to NSCV / Class requirements.
- Balancing performance & cost
- Requires coordination between client, surveyor, naval architects and shipyard

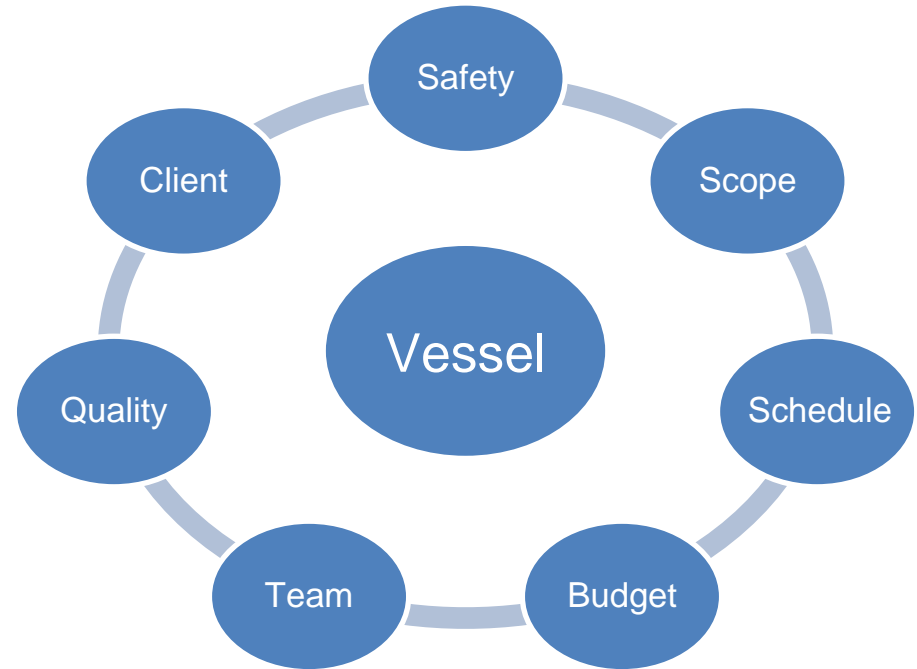
Experience

- Meeting with key shipyard personnel: what to look for, what to be aware of, how to prevent rework
- Inspections of critical components: identify and correct possible deficiencies
- Opportunities: testing of critical machinery components when available



Project Approach and Program - Judging Success

The vessel will be successful if it is able to deliver an enhanced marine science capability and capacity while at the same time reducing long term operational costs and downtime.



Vessel Procurement Support and Project Management / Client Representation



- Develop tender specification and revision
- Superintendency
- Client representation
- Inspections & reports to ensure compliance with specifications and applicable standards (NSCV)
- Identify risks and mitigation
- Business case for funding
- Selecting vessel builders
- Fleet replacement program
- Plan approval



Current projects

Australian Institute of Marine Science (AIMS) Regional Class Research Vessel



MSA are a part of the design team along with Glosten and One2three Naval Architect providing

- Shipyard tendering & evaluation support.
- Involved in the preliminary design to detailed design for review and approval.

Hart Marine Pilot and Patrol vessels



MSA have been working with Hart Marine since 2008. We complete the initial survey on all the new construction GRP Hart Marine pilot and patrol vessels.

RV Thuwal II



MSI have been engaged by King Abdulla University of Science and Technology (KAUST) as the onsite client representative at the Spanish shipyard Freire to build its new research vessel, *RV Thuwal II*.

Super yacht – Client representative



MSA has acted in the role as the client representative to oversee the construction of a 33.6m fibreglass yacht being built in New Zealand



Affiliations

MSI operates in a highly regulated industry and is required to hold a range of licenses and approvals to offer its services.

Members of key industry associations:

- Australian Commercial Vessel Operators Association (ACVOA).
- American Boat and Yacht Council.
- Australian International Marine Exporters Group (AIMEX), Superyacht Australia & ACMG.

Individual memberships with esteemed organizations:

- AMSA Accredited Marine Surveyors.
- International Institute of Marine Surveyors (IIMS).
- Australasian Institute of Marine Surveyors (AIMS).
- Royal Institution of Naval Architects (RINA).
- Institute of Marine Engineering, Science & Technology (IMarEST).
- Engineers Australia.
- eCMID, Accredited Vessel Inspectors.



ENGINEERS
AUSTRALIA



The Royal Institution of
Naval Architects



Thank you

Any questions?

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