



Ports and Marine

Capability Statement



We
are **Engineering
Amplified**

Contents

03	About Agilitus	17	Condition assessment and remediation
04	Multidiscipline services	18	Risk based remediation methodology and asset life extension
05	Executive leadership team	19	Cost benefit analysis and solution generation
06	Our difference	20	Structural utilisation and asset condition
08	Our ports and marine team	21	Project phases
13	Marine and coastal engineering for optimised port facilities	22	Case studies
14	Marine and coastal engineering	30	Technical excellence
15	Multipurpose ports and terminals	31	Safety
16	Asset performance	32	Contact

The **First Choice**
in **Engineering**

About Agilitus

Since 2017, we have expanded Australia-wide, delivering quality and reliable services in engineering, design, and project management across all disciplines and sectors.

Founded by colleagues Craig Bloxham (Managing Director) and Tony Comerford (Technical Director) after decades in the sector, their ethos of creating a business removed of staid bureaucratic processes still holds true today. It's this uncompromising philosophy that remains the hallmark of the business' true success.

"When you're one of thousands in a public listed company, it gets complicated, and Tony and I wanted to keep things simple. Complexity should not be in the management of the business, just the technical aspects of engineering. We wanted to focus on quality services and building a strong reputation of doing good work; the rest is history," said Craig.

With a vision to be the most sought-after global multidiscipline engineering business, attracting and employing the best people with like-minded values continues to be an important function of the business.

"To make it all work, you've got to have the right culture. If your team enjoy the work and the people they work with, this enthusiasm is hard to resist.

It's our distinction that no one can copy. Our clients value this in the way we work alongside them," said Tony.

“

We're known for our expertise and integrating solutions across all disciplines to deliver a quality product. It's about being consistently predictable, reliable and value for money.

”

Craig Bloxham - Managing Director

Agilitus at a glance



480+
Workforce
With high performance culture and low turnover



6 Offices
Across Australia, Perth HQ



250+
Years
Cumulative experience of the Management Team



180+
Clients in the Resources, Energy & Infrastructure Sectors



20+ MSA
Agreements across blue-chip customers



ZERO
Lost time to injury in the last 5 years

Multidiscipline services

Agilitus is a multidiscipline engineering, EPCM and ESG consultancy with a skilled, collaborative team delivering innovative solutions to the Resources, Energy & Industrial sectors.

Agilitus offers a range of services to meet any project's most stringent requirements across the entire lifecycle.

The team is focused on providing customised project design, engineering, EPCM, ESG advisory and rehabilitation capabilities with experience in mine site infrastructure and process plants, rail systems, bridges, haul roads, ports and marine, NPI facilities, energy, as well as power supply and distribution.

Agilitus has an in-depth understanding of the project lifecycle. This includes supporting clients through all stages of the project's delivery, from exploration to conceptual design and feasibility studies to detailed design, approvals, construction support and operations, rehabilitation and closure.

- Asset management
- Civil
- Coastal
- Critical and precious minerals
- Decarbonisation
- Desalination
- Design and technology
- Digital consulting
- Electrical
- Energy
- Gold
- Ground engineering
- Infrastructure
- Heavy haul rail
- HSEQ solutions
- Hydraulic mining
- Hydrology and water
- Mechanical
- Ports and marine
- Process
- Project delivery services (EPCM)
- Pumping and piping
- Stakeholder engagement
- Structural
- Tailings management, mine closures and rehabilitation



Executive leadership team



Craig Bloxham
Managing Director and Co-founder
30+ years' experience

We develop engineering solutions suitable for our client's purposes, rather than an engineering solution suitable for your business perspective in terms of managing that risk.



Tony Comerford
Technical Director and Co-founder
35+ years' experience

We're in the business of solving engineering challenges but it's more than that; it's the difference we can make for clients, our people and community. It's about delivering on our promises and always exploring better ways of finding solutions.



Tony Daniel
Chief Operations Officer
21+ years' experience

We combine exceptional technical expertise with practical, value-driven solutions for clients. This builds mutual respect and confidence in our solutions, knowing that we explore all avenues for the best fit solution for the project.



Gavin Wearne
Director – Ports and Marine
23+ years' experience

Success is being a trusted advisor for our clients, delivering successful projects, and being a great place to work. We have this here.



Jamie Little
Director – Commercial and Project Delivery
23+ years' experience

We do more than just value adding; we're actually strategically looking at the whole scenario, the big picture to deliver what clients need, not necessarily just what they asked for.



Matt Moreland
Director – Engineering
15+ years' experience

We don't do things just because that's the way they have always been done. We're not wedded to that thought process. We're always asking, what are you trying to achieve and what solution do you need.



Jason Fong
Director – Geotechnical
30+ years' experience

Agilitus has been built on finding innovative solutions, best fit solutions for problems that often a lot of our competitors haven't been able to solve.



Niccole Jenkins
Director – Marketing and Business Development
30+ years' experience

Returning clients is the true indicator of our success. This represents a true commitment to solving complex problems and optimising solutions. It's who we are.

Our difference

People & culture

We create an environment where people thrive and are empowered, safe, and supported to innovate. **Our team genuinely enjoys the work and the people they work with, and that enthusiasm becomes a powerful force.** Clients feel it. It builds trust, momentum, and confidence.

100% employee owned

When our clients succeed, we succeed. **Being 100% employee-owned means, we're personally invested in delivering outstanding outcomes.** This ownership mindset shows up in the energy we bring, the pride we take, and the results we deliver.

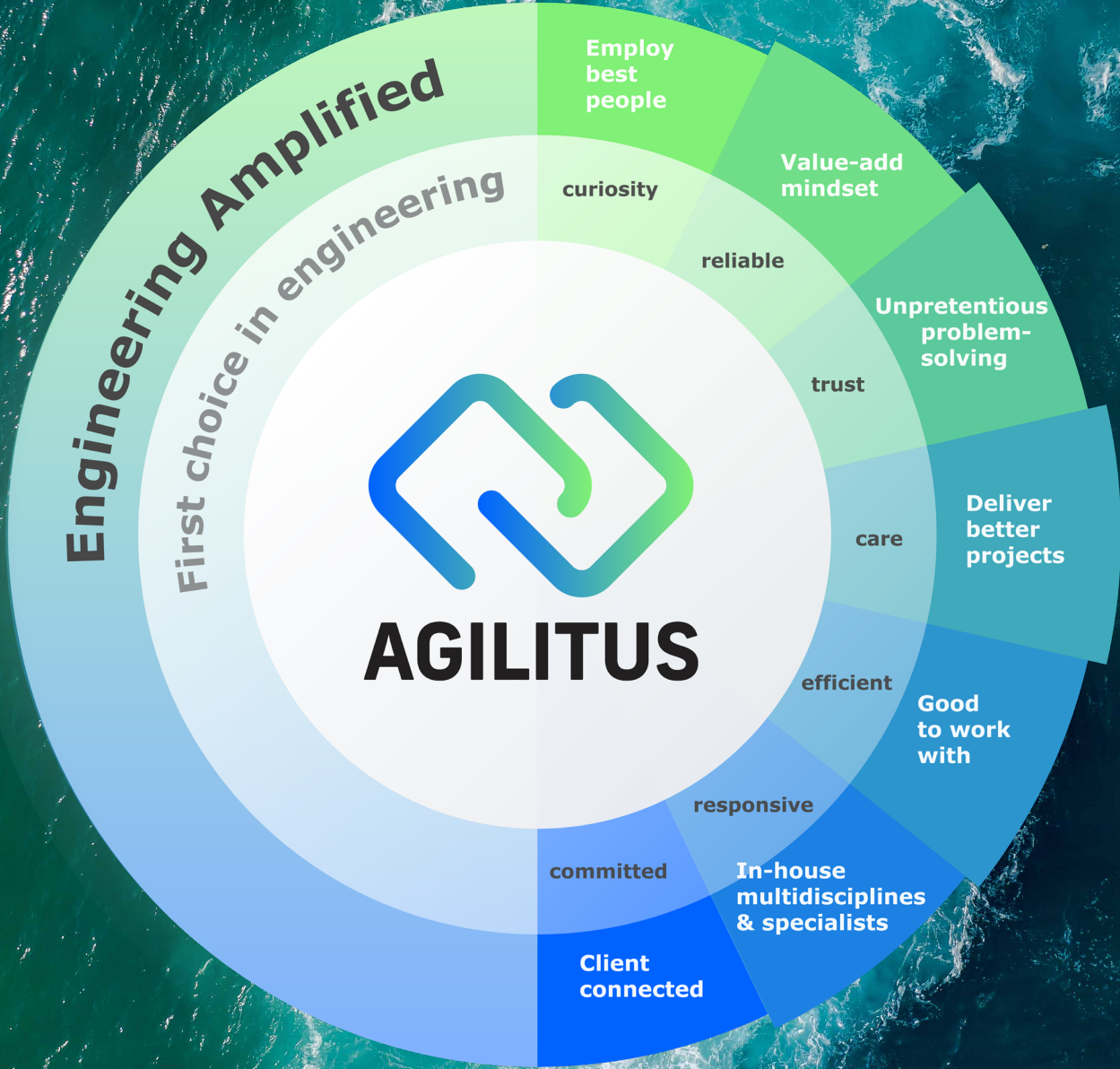
Brownfields experts

We're a leading brownfields specialist, with most of our work delivered in live, operating environments. Our multidisciplinary in house team, including highly valued specialist services, provides clients with a true end-to-end capability under one roof.

We don't just work in brownfields; we excel in it.

Best-fit solutions

We design best-fit solutions which integrate seamlessly into existing operations, reduce disruption, and mitigate risk. **Our proven methodologies allow us to move with precision and pace,** applying decades of practical experience to unlock smarter, safer, more cost-efficient outcomes.



Our ports and marine team



Gavin Wearne
Director – Ports & Marine
23+ years' experience

23+ years of experience in the Port and Maritime industry. Gavin's core technical speciality is ocean and coastal engineering with expertise in numerical modelling, physical modelling, metocean criteria determination, full bridge ship handling simulation and mooring analysis. Gavin is experienced in dynamic supply chain simulation and the preparation of capital and operating cost estimates in support of feasibility studies.



Ian Putt
Technical Director – Marine Structures
40+ years' experience

40+ years of experience in structural design and construction of heavy infrastructure, including prestressed and reinforced concrete, steel/concrete composite, and timber structures. He has been directly involved in large EPCM projects including the new port at Cape Preston for the Sino Iron project, Geraldton Berth 5 Project, Goro Nickel Project and Cape Lambert Wharf Upgrade Project.



Ben Knowles
Technical Director – Ports & Marine
20+ years' experience

20+ years of experience in Maritime Engineering, being involved in various aspects of offshore structure design and analysis. His career has seen him working as part of a design team on both large and smaller scale projects. Ben has extensive experience in steel and concrete design and is proficient in static and dynamic mooring analysis.



Ray Eng
Lead Marine Structural Engineer
27+ years' experience

27+ years of experience in steel and concrete structures with diverse capabilities in technical support for various stages of project, from studies, tenders, detail design to construction support, with demonstrated history in the marine, mining and resources industry.



Paulus Irawan
Principal Ports & Marine Engineer
18+ years' experience

18+ years of experience in the concept and detailed design and construction of steel and reinforced concrete in diverse areas of applications, including mining and resources infrastructures. He also has experience in geotechnical design, including underground structures, vaults, tunnels, deep basements, shallow and pile foundations, and sea walls.



Kylie Wright
Principal Marine Structural Engineer
21+ years' experience

21+ years of experience including design and analysis in civil, structural and marine engineering, project management, field engineering, client liaison, contractor management, consulting services through to major projects, concept through to detailed design, technical reports, specifications and proposals, dynamic simulation.



Adam Bartle
Discipline Lead – Ports & Marine
20+ years' experience

20+ years of experience in a diverse range of both technical and project management roles in the field of Coastal and Maritime engineering. Adam has developed strong Project Management skills from successfully managing multidisciplinary maritime and coastal projects ranging in CAPEX from \$2M up to \$150M AUD.



Udaya Kilgour
Materials and Durability Specialist
23+ years' experience

23+ years of experience successfully delivering new build and structural remediation projects across various sectors including transport, water infrastructure, and commercial property in Australia, New Zealand, and the United Arab Emirates. She has extensive project management experience, with vast international experience being a trusted advisor to clients around the world.



Dhileep Abeygoda
Lead Marine Engineer
25+ years' experience

25+ years of experience in materials handling, marine and infrastructure projects. He has completed design and analysis of steel and reinforced concrete structures using engineering software packages including SpaceGass, Strand 7 and SAP2000). Dhileep has experience with technical inspections and site supervision of civil, structural, and marine construction works.



Ian Miller
Principal Marine Structural Engineer
43+ years' experience

43+ years experience as a Director and Senior-level roles in engineering consultancies including Arcadis, AECOM and Arup. Ian has worked across Australia, UAE, UK, Hong Kong, South Africa, Mauritius and Botswana. His scope of experience includes the structural design and the management of multi-disciplinary teams of engineers on a wide range of projects.



Tiffany Felstead
Lead Structural Engineer
22+ years' experience

22+ years of experience in the mining and resources industry. Tiffany is experienced in the design of structures from concept through to detailed design stages for offshore and onshore projects. She has extensive experience in structural asset integrity management, including development of risk-based inspection plans for various facilities.



Richard Thickett
Lead Ports & Marine Engineer
18+ years' experience

18+ years of experience in the ports and maritime sector. He consistently delivers quality work and maintains a high level of professional development. Richard has been involved in many multi-discipline projects including land-backed quays, wharves & terminals, boating facilities, tug pontoons, desalination structures, bridges and other onshore structures.



Luke Lyons
Senior Engineer
10+ years' experience

Luke is a Senior Maritime and Coastal Engineer with seven years of experience in structural and coastal engineering, having worked for engineering construction companies and consultancy firms in New South Wales, Western Australia and Tasmania. Luke has specialised expertise in structural design and analysis of marine structures such as moorings and navigation aids, coastal and port planning studies, and project management.



Tom Butterworth
Senior Project Manager
13+ years' experience

13+ years of experience in complex and technically challenging infrastructure projects such as Cross River Rail, and inner-city centre projects in major UK cities London, Birmingham and UK's largest sustainable retail development in Manchester managing large multiciliary design teams through construction and client management.



Shivashant Selvakumar
Marine Structural Engineer
7+ years' experience

7+ years of experience working across numerous ports and marine focused projects such as conducting a WSCAM baseline survey for Albany Port and developing detailed repair scopes as a part of the Southern Ports Authority Asset Recovery program. He has also worked under a secondment to Southern Ports Authority.



Paul George
Design Manager
38+ years' experience

38+ years of experience working across civil, structural and maritime projects. He is a versatile professional with management experience on small and large multidisciplinary projects. Paul has the ability to oversee and manage teams while ensuring timely completion of project deadlines within allocated budgets.



Peter Longstaff
Design Manager
24+ years' experience

24+ years of experience in the preparation and planning of both general arrangement and detail drawings for construction and maintenance and has a working knowledge of both client-based and in-house quality procedures for the preparation, checking, and submission of drawings.



Adam Hawton
Lead Marine/Structural Designer
27+ years' experience

27+ years of experience in structural drafting. He has a broad range of experience across marine, mining and infrastructure projects. He is proficient in drafting programs such as AutoCAD, MicroStation, and ProSteel.



Chris Janas
Marine Structural Engineer
5+ years' experience

5+ years of experience in coastal engineering including numerical modelling of ocean waves, hydrodynamics, and dynamic mooring analyses. He has technical capacity in metocean design criteria development for coastal and nearshore structures, port and terminal operability studies and coastal processes modelling.



Laurice Villaflor
Coastal Engineer
9+ years' experience

9+ years of professional experience in coastal modelling as well as hydrologic and hydraulic modelling. She has been involved in various technical due diligence and design projects across Australia, the Middle East, and the Philippines. Her key skills include technical studies on coastal engineering and flood study projects, project management and coordination and hydrology and hydraulic modelling.



Darran Starbuck
Design Manager
40+ years' experience

40+ years of experience in major Maritime facilities including the planning and detail design of bulk material wharves, LNG Loadout jetties and shiplift quays; Transportation projects including rail, road and foot bridges; Heavy industrial projects including material handling structures, rail loadout vaults and commercial structures; and Site experience including inspections of works and liaising with contractors and clients.



Luke Cortez
Senior Marine/Structural Designer
17+ years' experience

17+ years of experience in the 2D and 3D design and documentation of structural steelwork, reinforced concrete, piling, retaining walls, precast panels, suspended slabs and stairs.



Lee Doran
Lead Structural / Marine Designer
20+ years' experience

20+ years experience in Greenfields, brownfields and sustaining capital projects. Exhibit's great knowledge in steel and concrete design as well as shop detailing practices. Lee demonstrates a practical and forward-thinking mindset to constructability and site installation, as well as a dynamic attitude to take on civil, mechanical, and project management tasks.



Niall Dixon
Structural Designer
8+ years' experience

Niall is a Structural Designer who has expertise in drafting commercial and residential buildings. He is proficient in Archicad and Autocad and can draw and interpret complete sets of residential construction drawings. Niall is skilled in 3D modelling and has basic knowledge of estimating and pricing of residential homes. He also has experience in commercial design and construction.



Frances Shirley
Structural Engineer
5+ years' experience

Frances is a structural engineer with 5+ years of international experience in bridge and structural design, analysis, and rehabilitation projects across Australia and Canada. She is experienced in working onsite while maintaining design and construction relationships. Skilled in leading preliminary and detailed designs, managing multi-disciplinary coordination, and delivering cost-effective, constructible solutions.



Matt Ortlik
Structural Designer
17+ years' experience

Matthew is a construction and engineering industry professional with 17 years of skilled experience. Focusing on project system start-up, checklists, workflow administration, planning, and execution. Additional experience gained in the areas of multi-disciplinary engineering practices, progress reporting, responsibility for assisting staff and project management.

Marine and coastal engineering for optimised port facilities

Agilitus' proven approach to deliver schedule and cost benefits through clever engineering and true collaboration is what sets us apart.

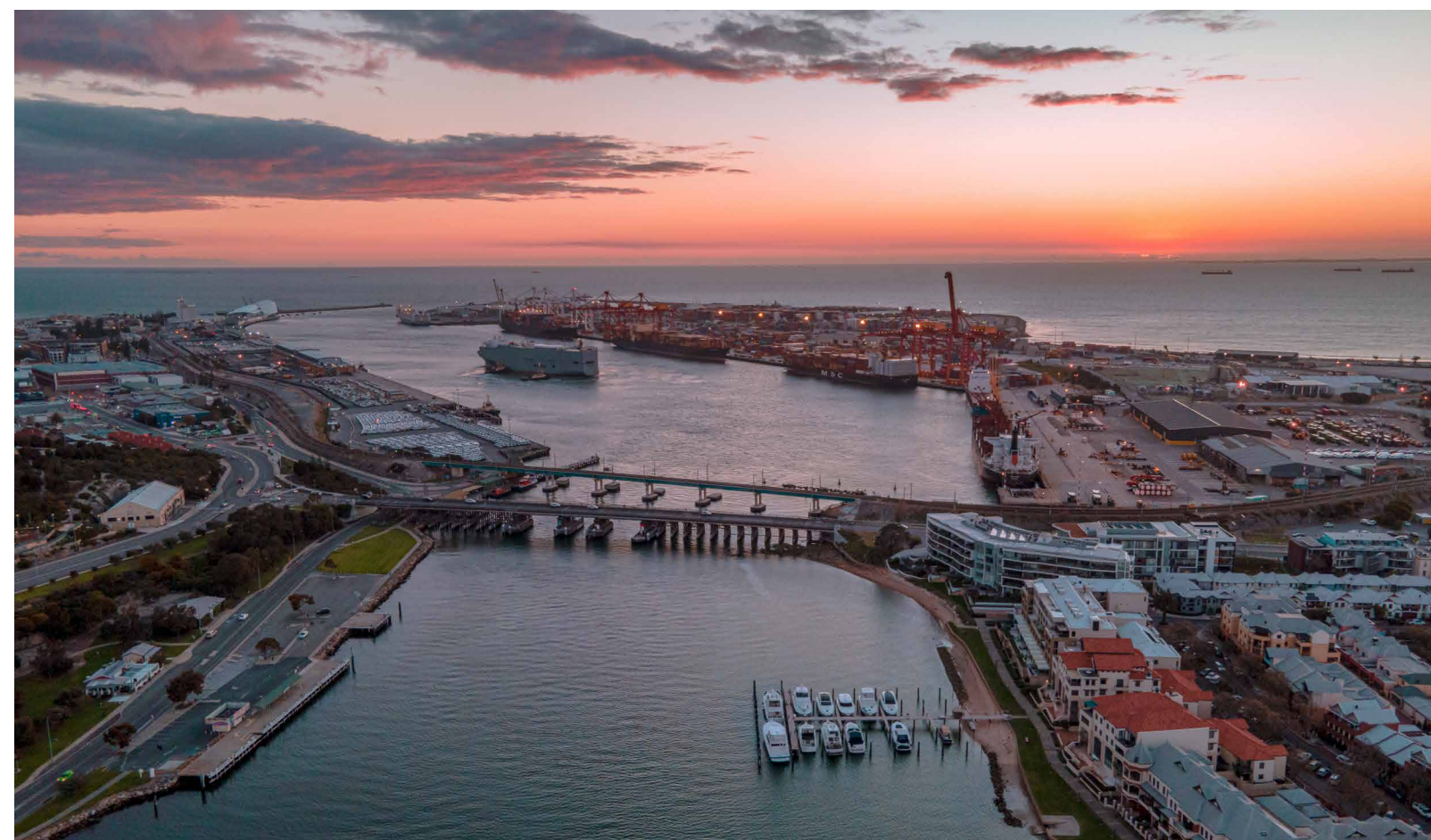
Agilitus is a multidisciplinary engineering, design, project delivery and advisory consultancy, providing technical solutions for clients in the Resources, Energy and Industrial sectors.

With offices on the East and West coasts of Australia, we are majority owned by our employees and committed to helping clients decarbonise in a net zero economy.

Our fit-for-purpose engineering solutions enable mining and raw material proponents, energy and water utilities, and port authorities to optimise the performance of their assets, minimise operational disruption, improve safety and mitigate risks.

Agilitus' proven approach to deliver schedule and cost benefits through clever engineering and true collaboration is what sets us apart.

Our people pride themselves on providing smart and sustainable solutions to complex engineering problems; and importantly, on being great people to work with.



Ports and Marine

We are experts in the characterisation of marine site conditions for the optimal design of port facilities.

Our Ports and Maritime team have decades of experience in port planning, marine site investigations, port design studies and maritime and coastal engineering. Our deep expertise in Maritime and Coastal engineering is balanced with a broad knowledge of mine to port supply chains, facilitating fit-for-purpose technical solutions that meet our clients' functional requirements.

Digitally Transforming Transport, Ports & Marine

Agilitus empowers the transport and marine industries with digital solutions that enhance operational efficiency, safety, and sustainability. From ports to shipping and logistics, our digital consulting team applies advanced analytics, AI, and simulation to optimise infrastructure and streamline decision-making.

Smarter Operations, Safer Seas

We deliver sector-specific insights through operational simulations, predictive maintenance, and AI-driven automation. Our expertise helps clients improve throughput, reduce downtime, and plan for Net Zero using our NZiD™ framework, turning complex data into actionable intelligence for the future of maritime and transport infrastructure.

Capabilities

- Port planning
 - Stakeholder engagement
 - Site identification and selection
 - Master planning including strategic staged expansion
 - Supply chain modelling input and interpretation
- Marine site investigations
 - Specifications and interpretations
 - Hydrographic surveys
 - Geotechnical geophysical investigations
 - Metocean investigations
 - Design criteria determination
 - Brownfield site inspections
- Port design studies
 - Numerical modelling – winds, waves, circulation and sediment
 - Physical modelling
 - Under keel clearance (UKC) simulation
 - Ship handling simulation – desktop and full bridge
 - Dynamic mooring analysis
- Maritime and coastal engineering
 - Navigation channels, dredging and reclamation
 - Marine structures including jetties, wharves, ro-ro, barge ramps
 - Coastal protection including breakwaters, causeways and seawalls
 - Port landside infrastructure including laydown, buildings, access roads and services

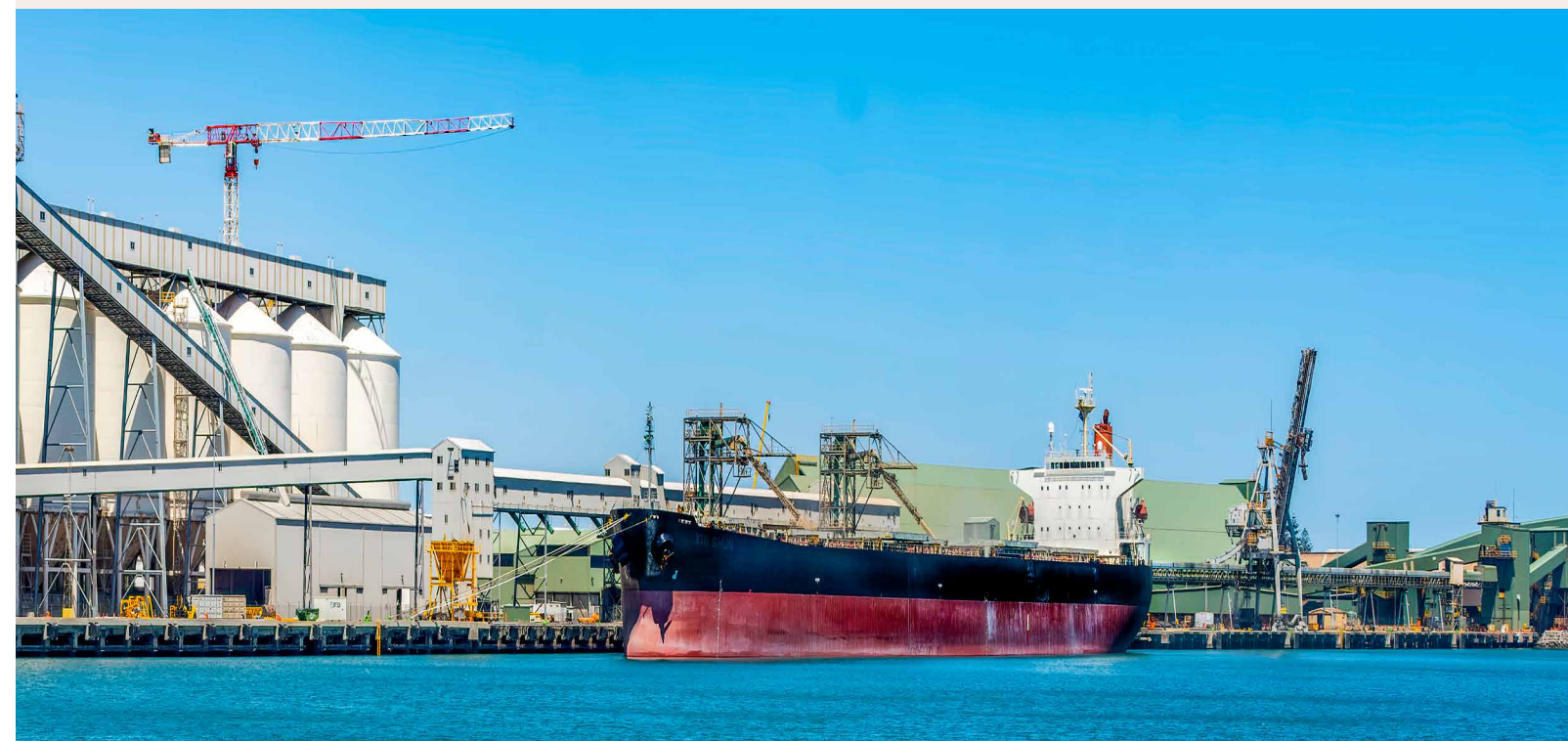
Multipurpose ports and terminals

Providing multidisciplinary services to design climate resilient assets, optimise and sustain performance, and increase productivity.

We have specialist expertise in designing a range of multipurpose port facilities and terminals including:

- Direct Loading Bulk Commodity Terminals – Liquids and Dry Bulk
- Transshipment Facilities
- General Cargo Wharfs
- Materials Offloading Facilities – Heavy Lift, Ro-Ro and LCT Ramps
- Cyclone Tug Havens
- Small Vessel Marinas and Boat Ramps
- Passenger and Ferry Terminals
- Ship Lifts and Maintenance Facilities
- Facility Asset Inspection and Maintenance

Agilitus has a successful track record in planning, designing and remediating bulk ports, container and cargo terminals, marine structures, and landside infrastructure.



Asset performance

Optimising the entire life span of an asset with a focus on durability, integrity and sustainability.

Sustainability

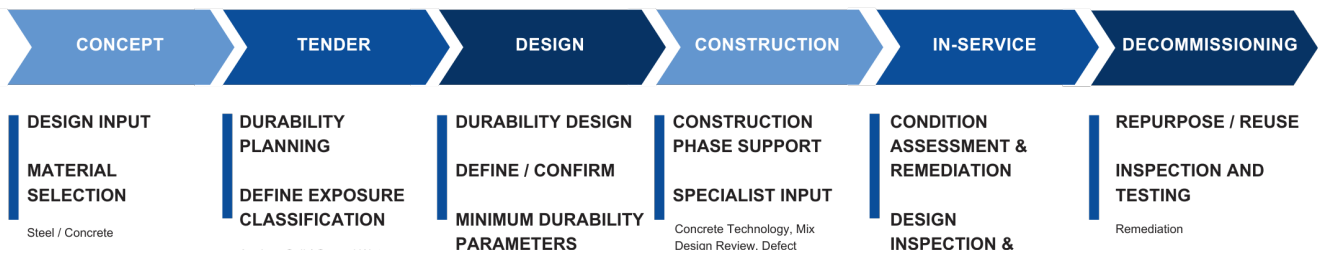
With our clients increasingly operating in a net zero economy, Agilitus is focused on providing holistic solutions to maritime challenges. From concept to realisation, we apply a sustainability lens to our work, ensuring we minimise environmental and social impacts. This is particularly important in selecting appropriate materials.

Durability Planning

Planning for durability governs how a structure will perform throughout its service life. Decisions made during the design and construction stage influence the total cost of ownership.

Our approach to durability is driven by our passion for sustainable development. We take a range of factors into consideration including the natural environment and operational context, maintainability, sustainability and risks.

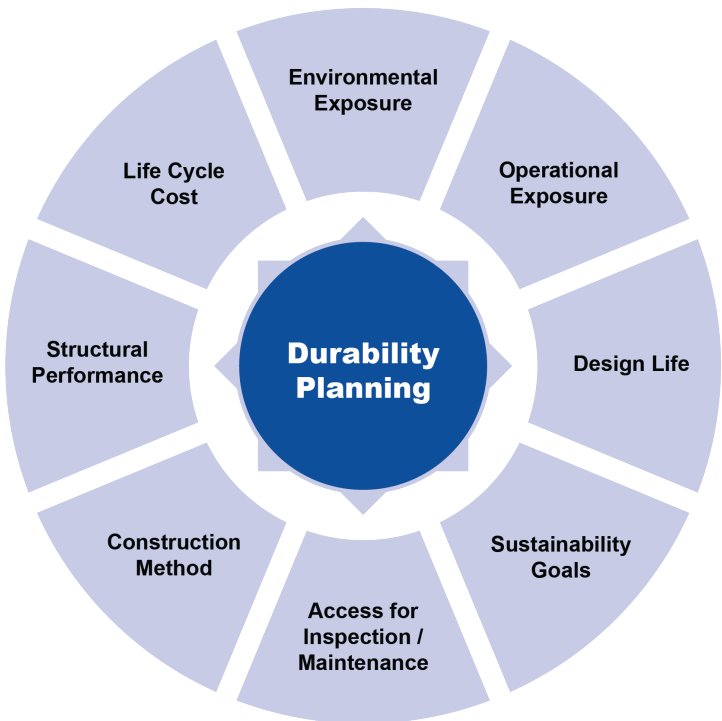
Durability and Materials Capabilities Across Asset Life



Condition Assessment and Remediation

We help manage your existing marine and coastal assets by providing detailed condition assessments, remediation designs as well as management and maintenance plans.

- Condition Inspections of Steel, Concrete, Timber Structures and Protective Coatings
- Load Testing and Advanced Structural Analysis
- Modelling to Assess Remaining Service Life
- Non-Destructive and Destructive Testing
- Inspections of Protective Coatings
- Waterproofing Remediation
- Use of Novel Materials for Strengthening (Carbon Fibre Composites)
- Remediation Options and Detailed Design
- Repair Phase Support



Condition assessment and remediation

Breathing new life into existing marine assets to maintain and extend their lifespan.

Marine assets are subject to some of the most aggressive exposure conditions which directly impact condition and performance. Agilitus undertakes detailed inspections of assets to provide a comprehensive assessment of their health. We also provide remedial engineering services including structural engineering, detailed design, strengthening and more. Our work helps clients to manage their asset remediation portfolio in a consistent manner to minimise operational downtime from unplanned deterioration.

Agilitus' dedicated team of experienced engineers is focused on developing a deep understanding of the existing condition of our clients' assets. This involves predicting the remaining service life of the asset to develop a customised remediation strategy which considers multiple factors. These include; sustainability, safety, capital cost, operation/maintenance cost and impacts on operation as a result of remediation works.

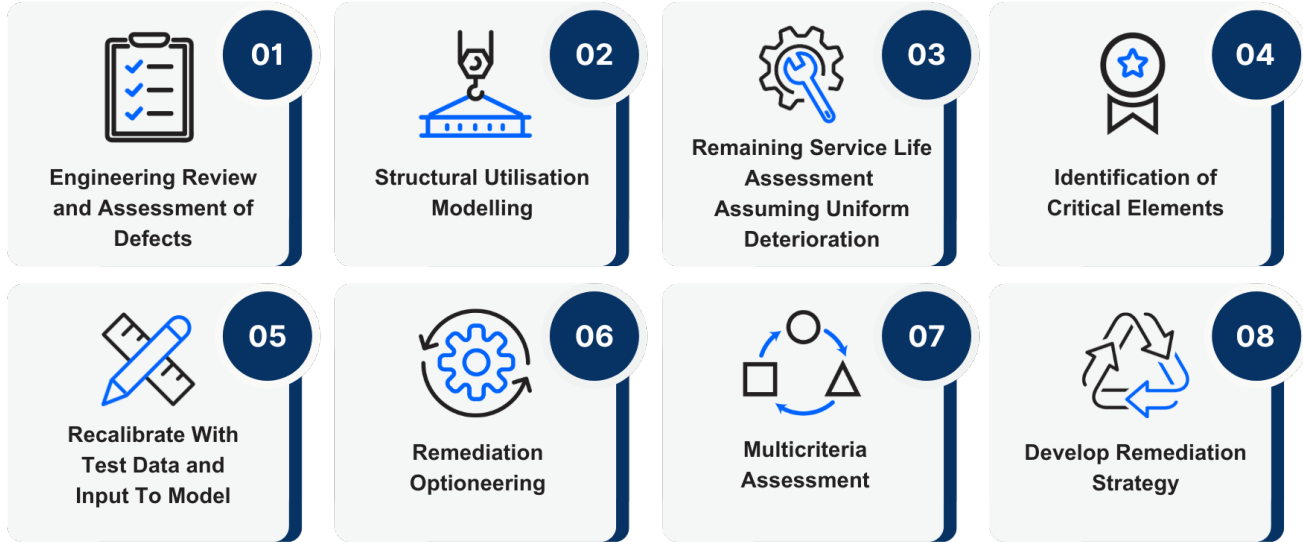
Capabilities

- Macro and Micro Exposure Assessment
- Non-Destructive Testing
 - Visual Inspection
 - Hammer Tap Survey
 - Schmidt Hammer
 - Ultrasonic Pulse Velocity
 - Impact Echo
 - Ground Penetrating Radar
 - Thermal Imaging
- Destructive Testing
 - Half-Cell Potential
 - Chloride Profile Analysis
 - Carbonation Test
 - Compressive Strength Testing
 - Petrographic Analysis
- Service Life Prediction Modelling
- Condition Assessment Reporting
- Remediation Optioneering
- Remediation Design

Risk based remediation methodology

A combination of aggressive exposure environments with operational exposure conditions can result in rapid and unprecedented deterioration of marine assets.

Our risk-based methodology considers all aspects of an asset's remaining life incorporating structural utilisation, existing coating protection performance, local defects and predicted future deterioration.



Asset Life Extension

With the goal of minimising operational downtime, we apply a best-in-class approach to business case generation and justification to remediation works.

Cost benefit analysis and solution generation

We use our vast expertise in managing maritime assets to create customised remediation options that are most advantageous to asset owners.

We use the following tools to validate proposed remediation options:

- Multicriteria Analysis (MCA)
- Risk and Opportunities Assessment
- Life Cycle Cost Estimate and Net Present Cost (NPC) Analysis
- Constructability and Scheduling Assessments



Structural utilisation and asset condition

Rather than starting from a 'repair all' position, we review how the structural elements of assets are currently utilised, and incorporate information obtained from condition assessment inspections.

With this structural modelling approach, and an understanding of predicted future growth of defects, we provide time-dependent information to help our clients better understand when structural elements may become critical.

Capabilities

Agilitus develops Smart Working Models of assets incorporating:

- As Built Survey Information
- Inspection Survey, Photogrammetry and Cloud Point Information
- Asset Defects Registers
- Time Dependant Structural Utilisation Colouring
- Proposed Structural Repair Details

These models provide an overall desktop view of structures to reduce time spent on site by asset owners, consultants and contractors.

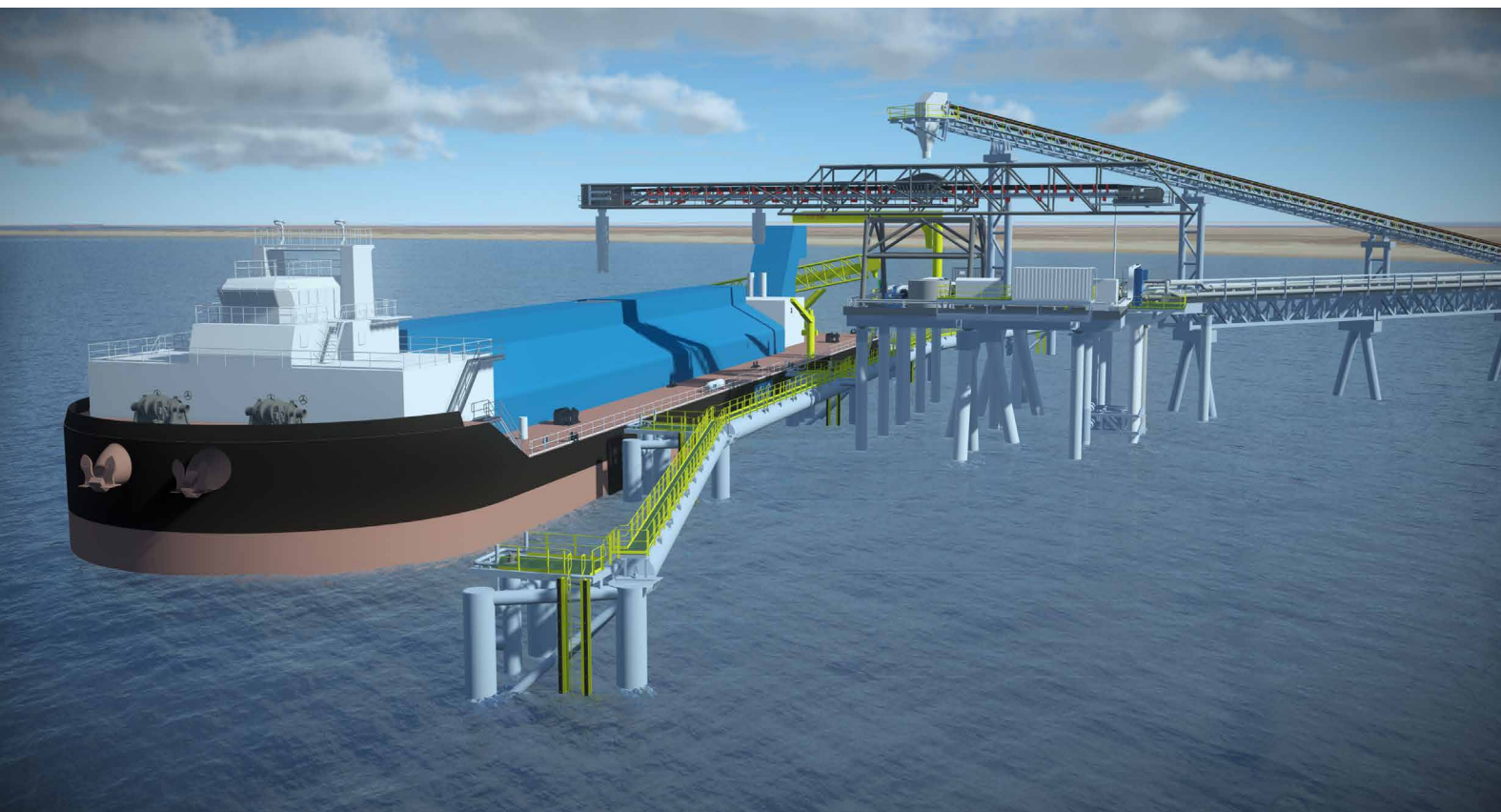


Project phases

Agilitus offers services throughout the project life cycle covering concept, PFS, FS, Detailed Design through to construction and commissioning support.

Capabilities

- Concept Studies
- Pre-Feasibility Studies
- Bankable Feasibility Studies
- Front End Engineering Design
- Detailed Design
- Independent Review
- Construction Support
- 2D & 3D Design



Geraldton Port Maximisation Project (PMaxP)

Client



Value

\$39M

Location

Geraldton, WA

Duration

2022 – Present

Scope

PMaxP comprises a coordinated program of marine and landside works designed to increase port capacity, improve operational reliability and modernise existing infrastructure.

The Geraldton Port Maximisation Project (PMaxP) is a major infrastructure program being delivered by Mid West Ports Authority to modernise Geraldton Port and expand its capacity to meet forecast growth in regional exports.

Located within the existing Port of Geraldton precinct on Western Australia's Mid West coast, the project comprises a series of marine and landside infrastructure upgrades designed to improve operational efficiency, increase export capacity and support long-term trade growth.

The project is funded by the Western Australian Government with an investment of approximately \$350 million and is being delivered over a multi-year program of works.

Once complete, PMaxP is expected to increase the Port of Geraldton's throughput capacity from approximately 15–16 million tonnes per annum to around 25 million tonnes per annum, supporting expanding mining, grain and emerging trade sectors across the Mid West region.

Key elements include:

- Demolition and reconstruction of existing berth infrastructure
- Dredging, reclamation and marine works within the port development area
- Construction of a new surge protection breakwater
- Relocation of tug harbour and associated marine facilities
- New bulk materials handling infrastructure including truck unloading facilities
- Installation of conveyors, ship loading systems and associated port services
- Upgrades to port operations infrastructure and supporting facilities



Sometimes clients can't articulate what they want. We said we needed a tug harbour. Agilitus said, 'we've got a solution for you, and we've also got a solution to reduce your surge issue.' That wasn't in our initial brief, but it's now the most crucial part of the project. In partnership with Agilitus, we're delivering the best outcomes for the future of the Mid West Region.

Damian Tully

CEO Mid West Ports Authority



Agilitus role

Agilitus was appointed by Mid West Ports Authority in October 2022 to provide Engineering, Procurement and Construction Management (EPCM) services for the Geraldton Port Maximisation Project.

Under this appointment, Agilitus provides multidisciplinary engineering and project delivery capability supporting the planning and execution of the PMaxP program.

Working as the client's delivery partner, Agilitus supports the project through integrated engineering coordination, procurement management and construction management activities within the broader EPCM delivery framework.

Brownfields implementation and management

The works are being delivered within an operating port environment requiring careful planning of construction staging, logistics and operational interfaces to maintain ongoing trade during delivery.



Stanley Point 3 Port Expansion



Client



Value

\$5.4M

Location

Port Hedland, WA

Duration

2021 – 2024

We have played a key role in the expansion of one of the largest bulk commodities ports in the world, completing three engagements to date.

To support the long-term strategic planning of its existing mine and port infrastructure, Roy Hill commenced the detailed design phase of the proposed Stanley Point 3 Port Expansion Project to increase the current export capacity from 60-64 Mtpa to 102 Mtpa.

Agilitus was engaged to provide a range of multidisciplinary capabilities including civil, structural, mechanical, and electrical engineering.

Concept Engineering Study

We have completed this study and determined optimal solutions for magnetite handling from within the Ridley Development Envelope at Port Hedland, and into the Stanley Point 3 shiploading circuit.

As part of this study, our team provided a detailed assessment of the options including identifying and developing feasible conveying and transport routes. They also undertook a high-level assessment of the proposed assets and identified mitigation measures to prevent issues relating to handling the higher-density product.

Feasibility Study

Further to the Concept Engineering Study, we were asked to complete the Feasibility Study. Our team incorporated sufficient engineering definition (15%) to support a Class 4 cost estimate for a base case integrated stockyard and split yard solution.

Progressive delivery combined with 3DEGlobal’s Indian Design Modelling Centre was effectively utilised to facilitate rapid development of the design documentation in an aggressive 16-week schedule to achieve the Financial Investment Decision milestone.

Energy & Power Feasibility Study

Our third engagement on this project helped to determine the overall power and energy demand for the new infrastructure planned for Berth 3.

The Agilitus NetZero in Design approach was integrated throughout the project life cycle to enable Roy Hill to achieve its targets as efficiently as possible.

Engineering design and approvals are now well advanced for the Stanley Point 3 expansion, which will support the rising demand in exports in the coming years for the global energy transition.

Lumsden Point



Client



Value

Undisclosed

Location

Port Hedland, WA

Duration

2023 – 2024

We completed the Concept and Detailed Design for a temporary Materials Offloading Facility (MOF) at Lumsden Point.

The MOF was required to accommodate heavy lift vessels up to 165 m LOA offloading modules up to 40 m in length.

Our design consisted of a rock causeway approach to a piled combi wall with tiebacks. We worked closely with the marine contractor to optimise the design to fast-track the project.

By reviewing Fortescue’s original concept design for this facility, Agilitus was able to reduce the costs of the facility by approximately \$20 million due to removing the requirement for a large, ballasted barge.

Revetment Remediation



Client



Value

Undisclosed

Location

Dampier, WA

Duration

Undisclosed

Large waves and high storm surge associated with Tropical Cyclone Damian resulted in damage to the protective revetments behind the Dampier Cargo Wharf.

Pilbara Ports Authority engaged Agilitus to undertake a condition assessment of the damaged area and develop a suitable remediation concept for the Dampier Cargo Wharf.

The condition assessment included a multibeam survey below water coupled with 3D photogrammetry drone survey above water. The remediation concepts included staged implementation and consideration of future port expansion.

Onslow Iron Project



Client



Value

\$3.5M

Location

Port Hedland, WA

Duration

2020 – 2021

We developed the Concept and Detailed Design (marine works) for the new 30 Mtpa port and transhipping facilities at the Port of Ashburton.

The transformational Onslow Iron project is one of the largest under development in the Pilbara region of Western Australia. It will have the shortest pit to port distance in the industry.

We completed the concept design of the port facilities including:

- Haul Road
- Port Landside Civil and Drainage Works
- Lease Lot Pad or Truck Unloading, Storage Shed and NPI Facilities
- Rock Armoured Revetments
- TSV Loading Wharf, Approach Jetty and Abutment

Our team developed the necessary engineering documentation to support a Stage 3 Development Application submission to the PPA.

Agilitus also delivered the detailed design of the marine works for the port facility, including:

- Approach Jetty Trestle Including Access Ramp and Abutment
- Loading Platform Supporting a Fixed TSV Loader
- Mooring and Berthing Dolphins to Safely Secure the TSV for Loading
- Berth Pocket To -7m CD to Accommodate TSV During Loading

Agilitus is now providing construction stage support services.

Surveying Baseline Wharf Condition & Corrosion Protection



Client



Value

Undisclosed

Location

Albany, WA

Duration

2021 – 2023

We helped SPA to better understand the condition of the Port of Albany's wharf and develop life cycle plans for Berths 1, 2, 3 and 6.

Southern Ports Authority (SPA) engaged Agilitus to better understand the condition of the Port of Albany's wharf and develop life cycle plans for Berths 1, 2, 3 and 6.

Located 400 km south of Perth in Western Australia (WA), the Port of Albany supports exports including grain, woodchip, silica sand and imports including fertiliser and fuel. In the past year, the port supported volumes of more than 5,273,541 tonnage and 161 ship visits.

Our Ports & Marine team undertook a Baseline Wharf Condition and Corrosion Protection Survey which included reviewing existing historical drawings and reports and previous condition assessment documents. They conducted a visual assessment of all elements of the four wharf structures, in accordance with Part 1 and 2 of the Ports Australia Wharf Structures Condition Assessment Manual (WSCAM). This assessment included a basic outline of load paths for each structure and identifying safety issues that must be addressed urgently.

We were also commissioned to develop Life Cycle Cost Models (LCCM) for the remaining life of the assets, including recommendations for future repair tasks, timeframes and cost estimates. This information will assist SPA with forward planning and budgeting.

The Port of Albany has been a thriving trade hub since 1826 when it was the first and only deep-water port operating in WA. Today, the port continues to generate social and economic benefits for Albany and the rest of the state – offering employment opportunities for locals while boosting the broader economy through its robust import and export activities.

Fuel Wharf Dolphins Remediation



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Client

Undisclosed

Value

Undisclosed

Location

Pilbara, WA

Duration

Undisclosed

We were engaged to action urgent repairs on dolphins suffering from corrosion above the water line.

A global mining giant engaged us after discovering that three existing mooring dolphins at one of its fuel wharves were in poor condition with significant corrosion to the steel above the water line.

Our specialist Ports & Marine team was quick to respond, undertaking a priority site visit within a couple of days. Timing was of the essence as the wharf was in the midst of undergoing refurbishments and upgrades.

On arrival, our professionals visually inspected the condition of the existing dolphins, performed a dive inspection of the piles below the water level, and undertook thickness testing. They also conducted an analysis of the existing dolphins to determine utilisation and assess remaining life.

Following this, we delivered a range of design services to enable repairs including electrical, hydraulic and civil engineering.

You're in good company

We work alongside many notable companies across Australia.



Technical excellence

We are passionate about leveraging our technical ingenuity to solve complex problems.

Technical excellence is the bedrock of our business. It drives our people and propels the outcomes we provide for clients, communities, asset owners and operators, and financiers.

Our dedicated professionals and subject matter experts focus on understanding our clients' business objectives, their desired project outcomes, as well as the latest industry research for the sectors in which we operate.

A premium client experience

The success of our project work depends on leveraging the best expertise of our people. That's why we allocate the most qualified professionals to help realise our clients' development vision and bring their projects to life.

Our work is underpinned by strong engineering design principles, industry-leading technology and pragmatic advice to deliver exceptional outcomes, every time.

This approach provides the following benefits:

- Ease of understanding of regulatory frameworks
- Efficient navigation through the development approvals process
- Protection and preservation of our cultural heritage, the environment and waterways
- Healthy, transparent and trusted relationships are established with stakeholder groups
- Respectful liaison with Traditional Owners is undertaken
- Fair and equitable outcomes are achieved for First Nations' communities
- Project knowledge is retained, including lessons learned
- Innovation is embraced and deployed.

The quality and excellence of our work and ability to deliver the best technical and cost-effective solutions for our clients is guided by our Technical Leadership Team.

Technical Leadership Team

Led by the most senior members of our business, this team facilitates learning and knowledge transfer, professional collaboration and mentorship to drive continuous excellence in our technical capabilities. It also encourages our people to perform to high technical standards and rewards staff for incorporating innovation into projects.

Our dedicated professionals and subject matter experts focus on understanding our clients' business objectives, their desired project outcomes, as well as the latest industry research for the sectors in which we operate.



Safety is at the heart of our business

Our diverse and culturally aware teams embrace safe work practices that are environmentally sound.

Safety is integral to everything we do at Agilitus. We care about our people, clients, and the communities in which we operate, and strive for zero harm in everything we do.

Health, safety and quality are embedded in our work practices, while heritage and sustainability are considered throughout the entire project life cycle.

We recognise the importance of continuously reviewing safety in design issues at all stages of a project, from investigation, design, construction, operation (including maintenance), closure and rehabilitation.

Exceeding regulatory obligations, we leverage a formalised Health, Safety, Environment and Quality Management framework that allows us to analyse and implement practical measures to mitigate risks.



Our vision is to be the most sought-after global multidiscipline engineering business; attracting and employing the best people with like-minded values while working on projects that make a difference to our communities.

We are **Engineering Amplified**

Let's talk about your project

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Leadership

- Understanding of client needs
- Technical Leadership Team governance
- Strong chartered presence
- Adherence to technical standards & regulatory instruments
- Committed to technical excellence
- Striving for low-carbon impacts



Systems

- ISO Accredited Quality Management System (QMS)
- Design assurance
- Engineering verification procedures
- Safety in Design
- Net Zero in Design
- Risk mitigation & management
- Project governance (action tracking, monitoring, performance and auditing)
- Continuous improvement (lessons learnt)



Characteristics

- Client centric
- Risk adverse
- Reliable
- Accountable
- Innovative
- Simplification
- Community and culture



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