

Coastal Engineering

Capability Statement



We are **Engineering
Amplified**

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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



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.



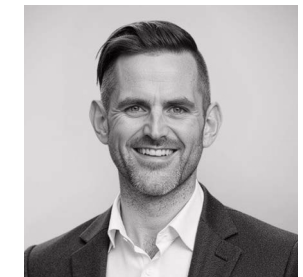
Gavin Wearne
Director – Ports and Marine
23+ years' experience

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

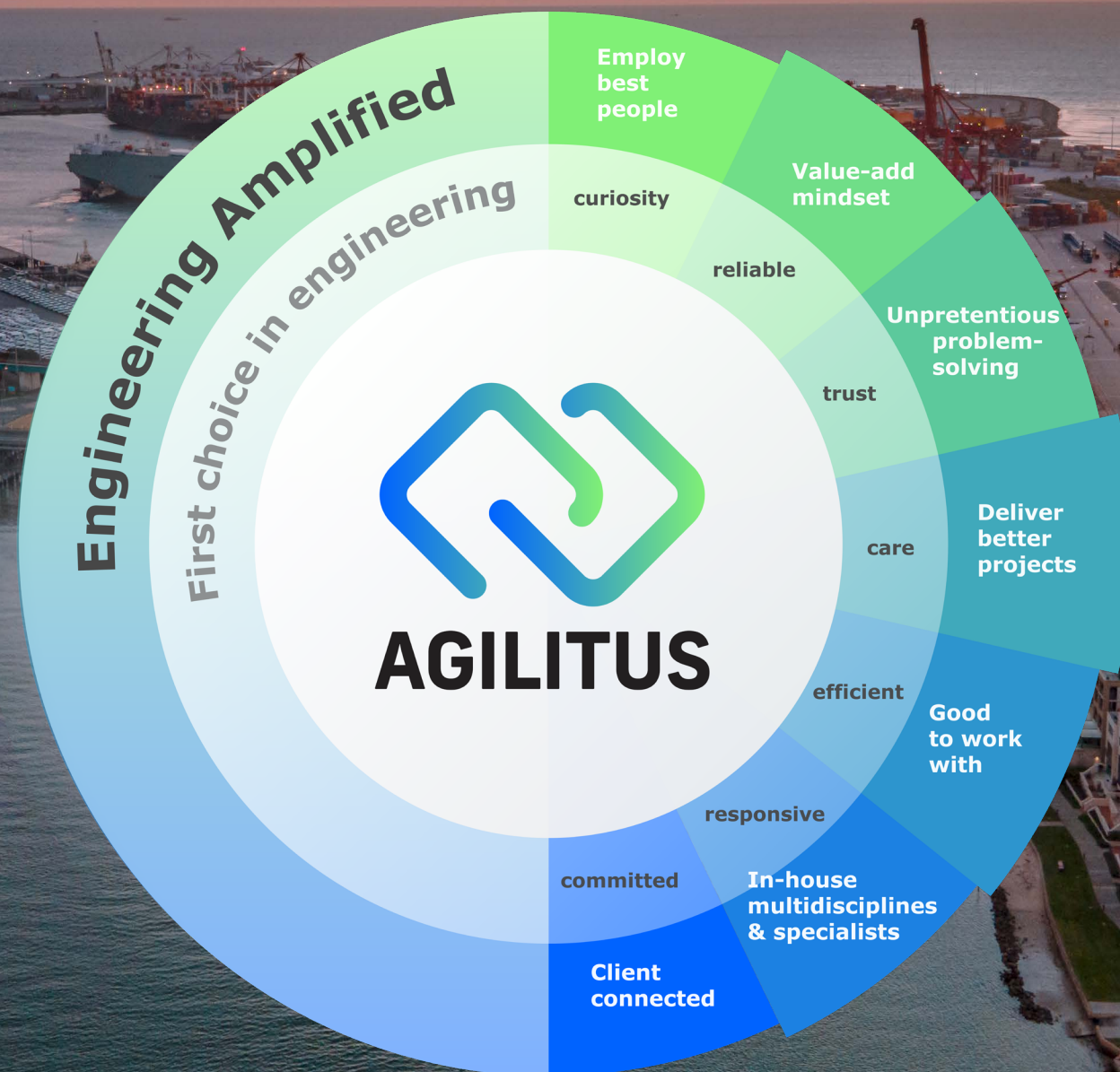
Agilitus has been built on finding innovative solutions, best fit solutions for problems that often a lot of our competitors haven't been able to solve.



Nicolle 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 coastal engineering team



Gavin Wearne
Director, Ports & Marine
20+ years' experience

Gavin has 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.



Ben Knowles
Discipline Lead - Ports & Marine
20+ years' experience

Ben has 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.



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

Adam has 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.



Luke Lyons
Senior Coastal Engineer
8+ years' experience

Luke has 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.



Laurice Villafor
Coastal Engineer
5+ years' experience

Laurice has experience 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.



Chris Janas
Marine Coastal Engineer
5+ years' experience

Chris has 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.

Tailored engineering services for coastal projects

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 Transport, 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 Local Councils, State Government bodies, 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.



Marine and coastal engineering

Offering expertise in the characterisation of marine site conditions for the optimal design of coastal infrastructure and assist our clients in deciding on cost effective solutions.

Capabilities

Planning

- Stakeholder Engagement
- Site Identification and Selection
- Master Planning
- Climate Risk and Resilience Advisory

Marine Site Investigations

- Specifications and Interpretations
- Hydrographic Surveys
- Geotechnical Geophysical Investigations
- Metocean Investigations
- Design Criteria Determination

Design Studies

- Numerical Modelling – Winds, Waves, Circulation and Sediment
- Physical Modelling
- Coastal Impact Assessments, Hazard Definition Studies and Hazard Assessment Strategies
- Coastal Processes
- Wind, Wave and Water Level
- Cyclone and Storm Surge
- Harbour Wave Penetration and Tranquility Studies
- Wave Overtopping Assessments
- Wave Forces on Caissons and Piled Structures
- Current Induced Scour Assessments

Maritime & Coastal Engineering

- Navigation Channels, Dredging and Reclamation
- Marine Structures including Jetties, Bridges, Wharves,
- Ro-Ro, Barge Ramps and other boating facilities
- Coastal Protection including Breakwaters, Revetments,
- Causeways, Seawalls, Geotextile Sand Containers and
- Temporary Protection

Cartography and Drafting

- Marine Cartography, Digitising and Mapping
- Interpretation and Analysis of Hydrographic and Topographic Surveys
- 3D Terrain Modelling and Volume Calculations
- Civil Drafting for Maritime Works
- Tender Drawings and Cartographic Presentations
- Project Management
- Tender Preparation and Contractor Selection
- Construction Methodology
- Site Supervision
- Programming and Planning



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/ aintenance cost and impacts on operation as a result of remediation works.

Capabilities

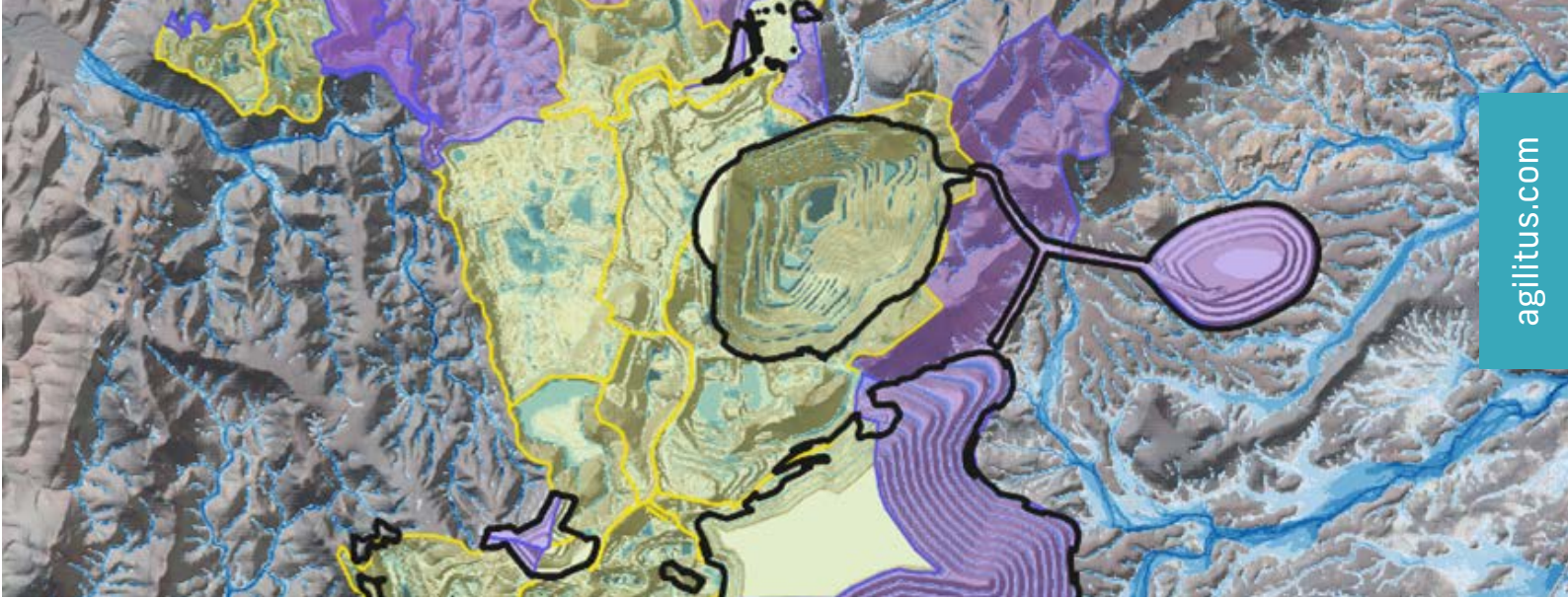
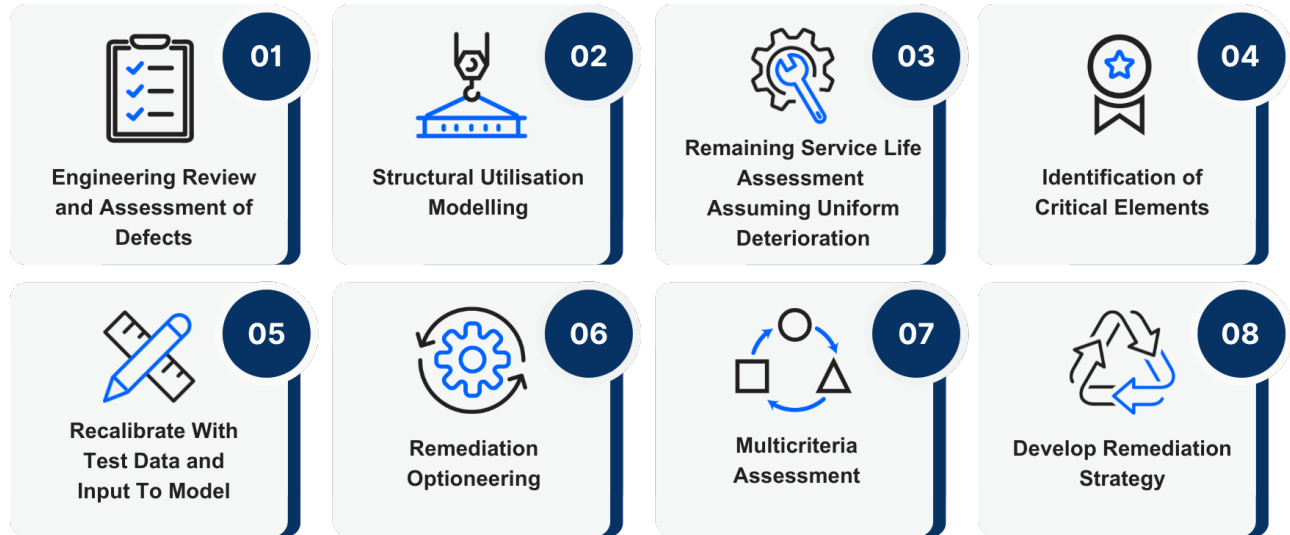
- Stakeholder Engagement
- Macro and Micro Exposure Assessment
- Non-Destructive Testing
- Destructive Testing
- Service Life Prediction Modelling
- Condition Assessment Reporting
- Remediation Optioneering
- Remediation Design
- Built and Natural Asset Inspections and Damage Assessments



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.



Hydrology

Providing specialised hydrological services and advice, Agilitus assists clients throughout the planning, design, construction and operation infrastructure.

Agilitus' dedicated hydrology team are skilled in the use of the most up-to-date software and application of the latest tools and analysis methods. The team prides itself on providing site-specific, quality and accurate services and advice. Our 'boots-on' leaders are experienced in project delivery, at all scales and across many global locations.

Capabilities

- Waterways Investigation and Design
- 1D and 2D Surface Water Modelling
- Flood Risk Assessment
- Hydrological and Hydraulic Analysis
- Water Supply and Yield Studies
- Water Balance
- Modelling
- Mine Site Water Management
- Surface Water Management Plans
- Yield Assessment Studies
- Dam Design and Dam Failure Assessment
- Environmental Hydrology
- Water Quality Assessment
- Surface Water Monitoring



Ground engineering

Focused on getting the geology right, we develop robust geotechnical designs that are underpinned by an accurate representation of the subsurface profile.

Capabilities Overview

- Site Investigation
- Soft Ground Engineering
- Deep Pile Foundations
- Earth Retention
- Dam Engineering
- Pavement Design
- Temporary Works

Ground Investigations

- Foundation Designs
- Shallow Footings & Piles Designs
- Settlement & Groundwater Analyses
- Ground Improvement Design & Monitoring
- Back Analysis of Foundation Performance
- Pile Driveability Studies
- Ground Anchor Designs

Slope Stability

- Assessment of Existing Slopes
- Instrumentation & Monitoring
- Risk Assessments – Quantitative & Qualitative
- Slope Remediation Works Design

Nearshore and Marine Geotechnics

- Offshore Drilling Investigations
- Design of Foundations – Piles, Mooring Points, Monopods, Dolphins
- Design of Retaining Structures
- Reclamation, Dredging, Ground Improvement Designs
- Materials Sourcing for Breakwaters

Tunnels & Retaining Structures

- Deep Excavations Assessments
- Design of Temporary & Permanent Retaining Structures
- Advice During Construction
- Site Specific Designs
- Rock Bolting, Soil Nailing & Ground Anchors
- Cut & Cover Tunnel Design
- Back Analysis of Failed Structures

Ground Improvement

- Design Surcharge / Pvd
- Vibro Compaction / Replacement (Stone Columns)
- Controlled Modulus Columns
- Jet Grouting
- Deep Soil Mixing & Dynamic Compaction

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



You're in good company

We work alongside many notable companies across Australia.



Technical excellence

We are passionate about leveraging their 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

Head office Perth

Level 10, 240 St Georges Terrace
Perth WA 6000
+61 8 6375 9100

Project office Perth

Level 3, 168 St Georges Terrace
Perth WA 6000
+61 8 6375 9100

Mandurah

Level 2, 55 Sutton Street
Mandurah WA 6210
+61 8 6375 9100

Townsville

6 Cottell Street
Hyde Park QLD 4812
+61 7 4724 0640

Brisbane

Level 13, 333 Ann Street
Brisbane QLD 4000
+61 7 4724 0640

Newcastle

Suite 2 Level 3 175 Scott Street
Newcastle NSW 2300
+61 2 4091 2700



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



 agilitus.com
 info@agilitus.com

