



QUANTUM
GLOBAL
SOLUTIONS

Corporate Profile



Anywhere you need our support.



PARTNERING EXCELLENCE

Quantum Global Solutions is an independent global construction support consultancy dedicated to supporting the construction industry to manage their projects and avoid disputes. British founded and managed, we partner with many of the leading contractors, lawyers and employers around the world.

Our experienced teams, working across Europe, the MENA Region, Africa, Asia, Australasia and the USA, provide contractual, commercial and planning support to construction teams with expertise in forensic delay, quantum analysis and the preparation of entitlement submissions for the resolution of construction claims and disputes.

As a leading industry specialist, the Quantum team comprises experts in many fields including Chartered Engineers, Chartered Surveyors, Contracts/Commercial Specialists, Quantity Surveyors, Forensic Delay Analysts and Media Specialists. Our strong reputation around the world for exceptional quality of service is at the heart of our company's customer-centric focus.

Quantum is regulated by the Royal Institution of Chartered Surveyors (RICS) and is committed to setting and upholding the highest standards of excellence.

Quantum Philosophy

At Quantum we understand that our reputation is built through how we approach and manage our portfolio of multi-dimensional projects and how conduct our business. These values can best be described in the six elements of our corporate philosophy:

- **Excellence** – not a skill but an attitude
- **Customer focus** – a commitment to exceed our clients' expectations
- **Integrity** – a mainstay of our business operations
- **Innovation** – our innovative and solutions-based approach is integral to our business philosophy
- **Solution-based creativity** – utilising creative approaches to proactively find amicable resolutions
- **Quantum Family** – a results-based team of like-minded professionals who are committed to their clients and who want to develop their careers

Quantum is guided by the principles and practices of leading industry associations including:

- RICS – Royal Institution of Chartered Surveyors
- CI Arb – Chartered Institute of Arbitrators
- ICE – Institution of Civil Engineers
- CIOB – Chartered Institute of Building
- SCL – Society of Construction Law



Peter Murphy
Managing Director

“ We pride ourselves in providing our clients with the highest level of service, efficiently and effectively, and tailoring solutions to meet their individual needs



SERVICES

CONTRACTUAL COMMERCIAL SERVICES

At Quantum we understand the complex nature of construction projects and the multiple issues our clients face – so we provide a wide range of bespoke services to meet our individual client needs.

Quantum recognises that complex construction projects require professional contractual and commercial services to effectively manage risks and ensure the successful completion of multi-faceted construction and engineering projects from inception to completion. Partnering with Quantum allows our clients to manage their projects whilst we look after their profits.

At Quantum we:

- Listen to our client's project team
- Work alongside and with our client's site teams
- Continually provide feedback to our clients

OUR FOCUS

- Tender period - strategic reviews, risk analysis
- Contract award - reviews, recommendations, setting systems
- Construction period – monitoring, evaluation and submissions
- Project close out – handover, account support

OUR SERVICES

- Proactive partnerships and client support
- Third party objective reviews
- Project health checks
- Embedded contractual support



As a provider of professional construction support consultancy services, Quantum meets the specific business objectives of each client by delivering bespoke contractual and commercial solutions for each and every challenge.



FORENSIC PLANNING

As projects continue to increase in size and complexity along with accelerated programmes for delivery, we appreciate the importance of accurate and detailed planning. It is therefore crucial to establish a workable programme from the outset that recognises contractor, client and engineer obligations which is correctly linked to react to change.

Our Forensic Planning teams:

- Understand the requirement for accurate planning
- Support our clients to plan their projects successfully
- Manage the programme incorporating change
- Use industry software to demonstrate impact of change

Our clients entrust Quantum to provide:

- Tender period – understanding scope, tender programme development
- Contract award – baseline programme development recommendations, setting systems
- Construction period – maintain progress updates
- Change management – impact of change, cost entitlements, impact analysis
- Extension of time submissions
- Disruption analysis
- Recovery/acceleration programmes
- As-built updates
- Project closeout – as-built programme



CONSTRUCTION CLAIMS

With global, multi-sectoral experience our teams acknowledge that construction projects are a dynamic process where change is inevitable. We take a proactive and hands-on approach in managing change to reach an amicable resolution without the need to resort to a formal dispute process.

Change may result in additional time and cost. Any change to the plan, must be presented in a clear and concise manner at the time rather than upon completion of the project this allows both parties to mutually agree on the quantum of time and cost.

Our teams:

- Embrace this entitlement
- Prepare clear and concise entitlement submissions
- Depict the contractual merit
- Maximise entitlement to time and cost
- Use high end multi-media presentations to demonstrate our client's position
- Maximise entitlement to time and cost

Typically our entitlement submissions include:

- Variation and change orders
- Extension of time submissions
- Delay only and prolongation costs
- Delay and disruption entitlement
- Disruption only entitlement submissions
- Acceleration submissions
- Contractual dispute and opinion
- Position and strategy documents

“ Quantum prefers to use the term ‘entitlement’ rather than claim.”



DISPUTE RESOLUTION

In our experience the vast majority of issues can be settled through a proactive alternative dispute resolution process. The ability to communicate complex engineering and construction issues, combined with an understanding of the market are imperative in the settlement of disputes through alternative resolution forums.

However, there are cases when parties cannot reach an amicable resolution and the formal dispute process has to be followed to secure a fair and reasonable settlement for time and cost entitlement issues. In these cases Quantum:

- Provide compelling entitlement submissions
- Work in partnership with our client's legal team
- Prepare rebuttals for counter claims
- Utilise multi-media presentations to demonstrate client's entitlement
- Provide support to final resolution

“ Quantum believe in amicable resolution of issues.



LITIGATION FUNDING

Over the past few years litigation funding has developed to become an increasingly popular method for businesses to pursue claims that might otherwise have been left unrealised due to the costs of formally seeking a settlement through a formal dispute process including arbitration, court or treaty case.

What is Litigation Funding?

Litigation Funding, which is also known as legal financing or third-party funding, is the provision of financing one party in a litigation in return for a percentage of any benefits received by the litigant. It enables a party to litigate or arbitrate without having to directly pay for it, whether because of commercial restraints or because they prefer to use their liquidity in other areas.

Litigation funding provides:

- A valuable means of access to justice for claimants who may not have funds available
- A cost-effective financing tool for claimants.

Advantages of Litigation Funding

Perhaps most importantly, it is possible for the funded party to set aside the financial risk of pursuing a claim in return for sharing the returns.

In addition, some funders, particularly those that employ experienced litigators, are able to offer a well-informed view as to the merits of the case, effectively providing guidance as to which lawyers and consultants are best suited to manage the case.

party that can secure funding.

“ Litigation can take several years and can tie up a company's liquidity for long periods affecting cash flow.



EXPERTS SERVICES/ EXPERT WITNESS

With experience working on some of the world's most iconic mega-projects, Quantum provides our clients in the commercial and construction fields with Testifying Expert Witnesses, Arbitrators, Mediators and Adjudicators – local knowledge with global expertise ... supporting our clients to reach amicable resolutions.

Disputes can arise when parties are unable to find any grounds for compromise in the settlement of any final account. Typically, disputes arise from disagreements over onerous contract terms, unrealistic programme obligations or incomplete design, and when the parties lose sight of the reasonable or common grounds for settlement, the dispute can often become 'personal'. Where one party believes he's entitled to more money, the other party pushes back – leaving the only route to settlement being through the application of the contract's dispute clause.

Through our Dispute Services division, Quantum's experts can provide services to support parties in dispute in three key areas:

- Litigation Support
- Tribunals and Expert Determination
- Expert Witness

“ I was very impressed by the quality of your work and your understanding of the whole affair. Your presentation to the Tribunal was equally outstanding.

MENA Infrastructure Contractor



QUANTUM DIGITAL

“ We believe in graphical representation, clarity of message and understanding through visualisation.

With contractual entitlement issues being commonplace in the construction industry and regularly leading to disputes, Quantum has earned a strong reputation for successfully delivering early settlement of claims and disputes clearly and concisely through their highly-skilled digital team.

At Quantum Digital, our team appreciates that 90% of the information transmitted to the brain is visual, and our brain processes visual images 60,000 times faster than text. We apply this understanding during the development of all our projects. One unique method Quantum uses to trigger negotiations and avoid protracted dispute is through the use of fully animated movie presentations using creative and dynamic multimedia techniques. To leverage this fact, Quantum has developed an in-house media team specifically dedicated to the preparation of movies and interactive presentations used to demonstrate construction claim entitlements. When utilised in this way, media is particularly useful for making presentations to key decision makers who do not necessarily have the time to read large volumes of narrative accompanying many claim submissions.



TRAINING

Quantum is strongly committed to sharing our knowledge and experience with our clients to promote a non-adversarial approach to construction projects.

The Quantum team have extensive experience in the construction industry on a wide range of projects with the key focus on managing contractual, commercial and planning issues and ensuring our clients not only complete their projects safely and on time but also securing their profits.

Quantum training seminar topics include:

- Commercial management
- Contracts management
- Planning training
- Share knowledge and experience
- Encourage collaboration
- Discuss lessons learned

Quantum partners with our clients to:

- Provide on-the-job training
- Undertake training workshops
- Make industry specific presentations
- Share knowledge and experience
- Encourage collaboration
- Discuss lessons learned

“ Quantum regularly contributes to industry conferences and gatherings. ”





SECTORS



WHAT IS CONSTRUCTION?

Civil Engineering is defined by Thomas Telford, who was the first president of the Institution of Civil Engineers, as ‘the art of directing the great sources of power in nature for the use and convenience of man.’

Our clients are experts in their field managing the construction of prestigious projects throughout the world. Their focus is on quality and safe delivery of projects on time.

Quantum provide specialist contractual, commercial and forensic planning services across the full spectrum of the civil engineering, construction and building industry. Our team of industry professionals have worked across multiple sectors including: infrastructure, sports and leisure, commercial developments, oil and gas, railway, IT and telecommunication, airports, health and education, marine, mechanical electrical and plumbing as well as life safety and security projects.

“ Partnering with Quantum allows our clients to manage their projects whilst we look after their profits.”



INFRASTRUCTURE

Infrastructure is a strategic asset for future growth and economic development. As the global population continues to increase, a continued period of expansion and significant investment in all areas of civil engineering, building and construction is anticipated.

Quantum understands that our lives depend on safe and reliable infrastructure including access to energy, water, communication and transportation. Our teams have extensive experience of infrastructure projects partnering with our clients to provide invaluable expert knowledge and understanding of the issues that will be faced.

“ Building is defined as the process or business of constructing something.”

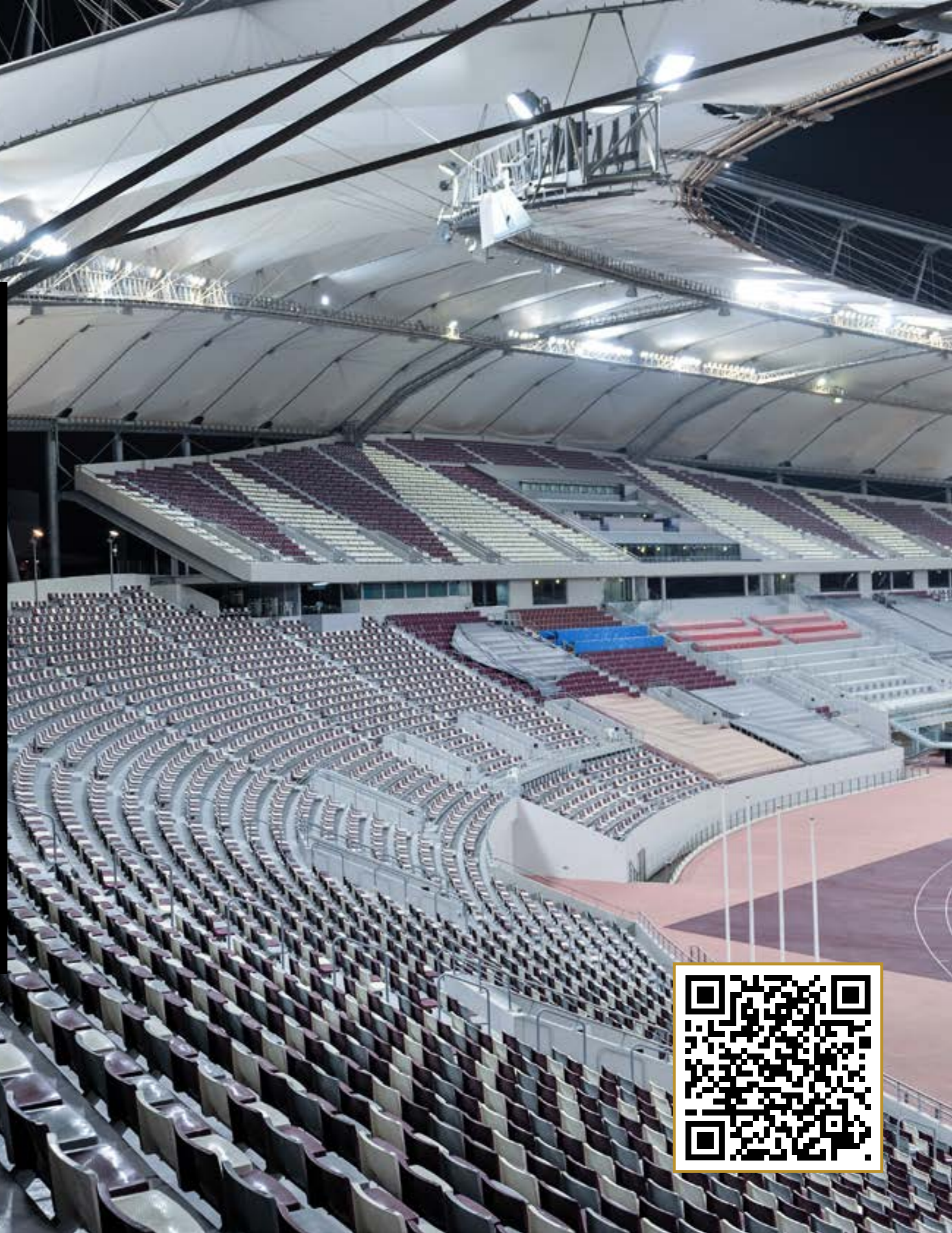


SPORTS and LEISURE

Accounting for approximately 1 per cent of global GDP, the annual global sports market including infrastructure development is estimated at US\$ 600-700 billion.

Quantum recognises that in the latter part of the 20th century, sport and leisure transitioned from a largely amateur pastime to a global business. Many facilities are constructed in a state of uncertainty and change reflecting the rapid evolution of technology and sport specific demands. Quantum's teams of construction industry professionals not only have expertise in the construction of world class sports facilities but also participatory knowledge of a broad range of sports.

“ Safe and reliable infrastructure provides solid foundations for communities and enables commerce.



COMMERCIAL DEVELOPMENTS

Commerce is the whole system of an economy that constitutes an environment.

Continued growth and development throughout the world requires a significant focus on commercial development projects. The Quantum team has extensive experience and provides invaluable expert knowledge and understanding of the issues that are faced by both client and contractor.



OIL AND GAS

Throughout the world the success and continued growth of many countries is supported by the revenue generated through the production and sales of energy reserves particularly oil and gas.

Our team of experts have extensive oil and gas project experience and will share the lessons learned to ensure successful implementation of oil and gas development projects.

“Complex and challenging industrial facilities and infrastructure projects require specialist knowledge and understanding to ensure safe and reliable production and delivery.





RAIL

A recent report covering 65 countries who jointly make up more than 98% of the global railway market estimates the rail sector to have an average annual growth increase of 2.3% until 2025.

Quantum understands that our lives depend on safe and reliable infrastructure including access to energy, water, communication and transportation. Safe and reliable infrastructure provides solid foundations for communities and enables commerce. The Quantum team has extensive experience of infrastructure projects.

“ The Quantum team has extensive experience of rail projects. ”



IT and TELECOMMUNICATIONS

Communication is now immediate and all-encompassing. We understand that this is critical to business, our way of life today and for the future.

Quantum has extensive experience and remains up to date with the latest IT and telecommunication developments and technology and partner with our clients to provide invaluable expert knowledge and understanding of the issues that will be faced in this constantly evolving field.

“ IT and telecoms is the most rapidly developing and dynamic area of construction projects with the continued desire for faster, reliable and more efficient communication.



LIFE SAFETY and SECURITY SYSTEMS

With increasingly dense urban populations and more technological smart buildings the demands on life safety and security systems become more complex and critical. Governments throughout the world continue to focus this as a priority to ensure the safety and wellbeing of their people.

Quantum has extensive experience of this rapidly changing technology and impact on projects and is able to bring this knowledge to assist with evaluation of the change ensuring amicable resolution between the parties and minimise delay to the project.





AIRPORTS

The world is getting smaller and travel between continents is part of our daily lives. On a global level there continues to be rapid growth in the aviation industry and associated infrastructure while the Middle East's recent expansion activities have seen the region become the leading world hub for all international travel and freight.

With extensive collective experience of airport projects Quantum ensures the successful implementation of these development projects which play an important role in the global economy.

“ The aviation industry supports \$3.5 trillion (4.1%) of the world's gross domestic product (GDP). If aviation were a country, it would rank 17th in size by GDP. That equates to the GDP of Indonesia and the Netherlands.



HEALTH and EDUCATION

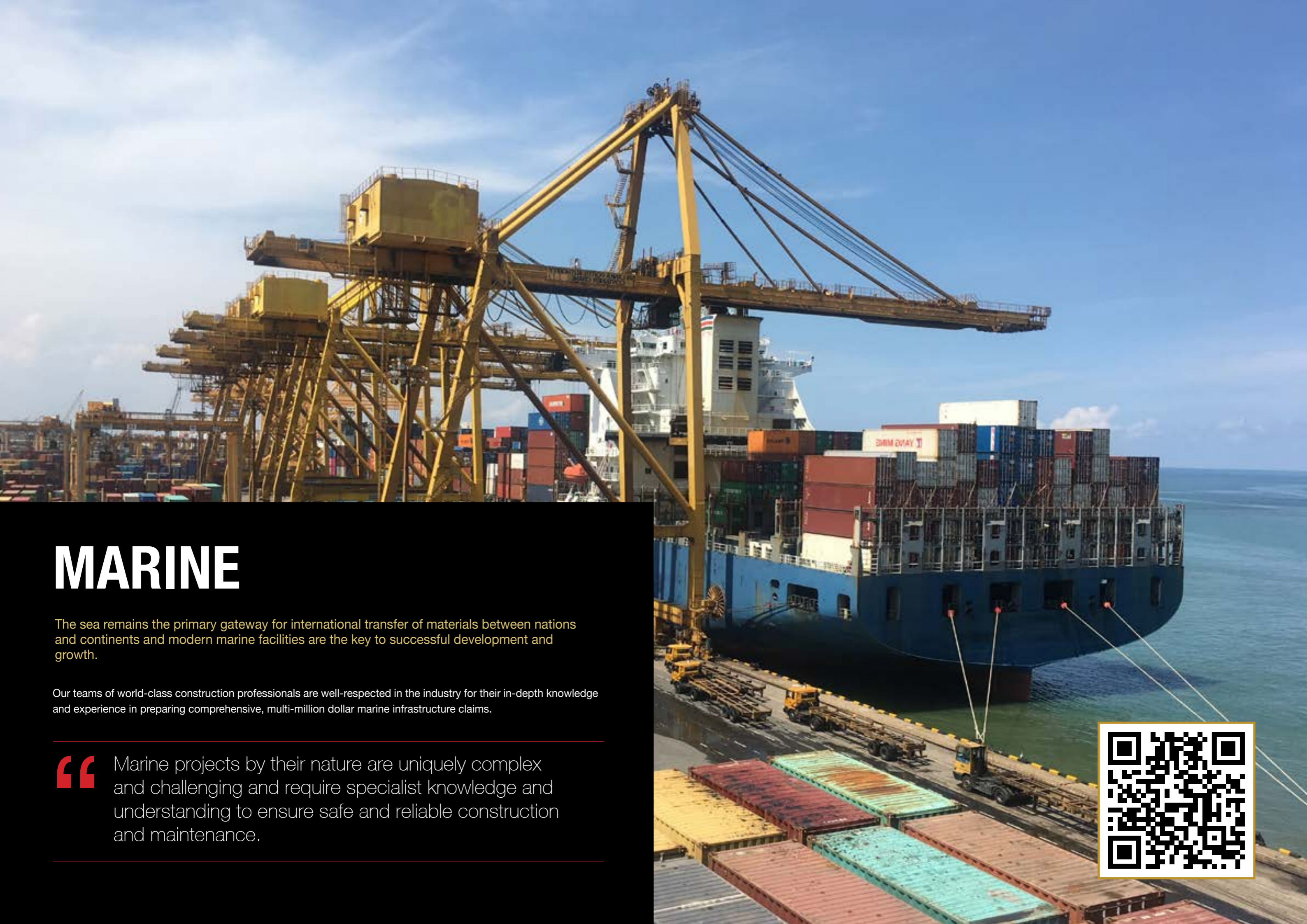
Strong educational foundations are fundamental to the continued growth and development of modern knowledge-based economies enabling people of all ages to effectively contribute to their future.

In addition, the development of new world-class healthcare facilities also provides patients with a ground-breaking level of service in innovative and ultra-modern facilities designed to promote healing. Utilising their experience of education and healthcare projects the Quantum team understand of the issues that will be faced during these complex major projects.



World class education and healthcare are the primary building blocks of life.





MARINE

The sea remains the primary gateway for international transfer of materials between nations and continents and modern marine facilities are the key to successful development and growth.

Our teams of world-class construction professionals are well-respected in the industry for their in-depth knowledge and experience in preparing comprehensive, multi-million dollar marine infrastructure claims.

“ Marine projects by their nature are uniquely complex and challenging and require specialist knowledge and understanding to ensure safe and reliable construction and maintenance.



MECHANICAL ELECTRICAL and PLUMBING

Quantum understands that our lives depend on safe and reliable infrastructure including access to energy and water. They have a direct impact on the success of any project and continued facility operation. However, these services are understood by very few.

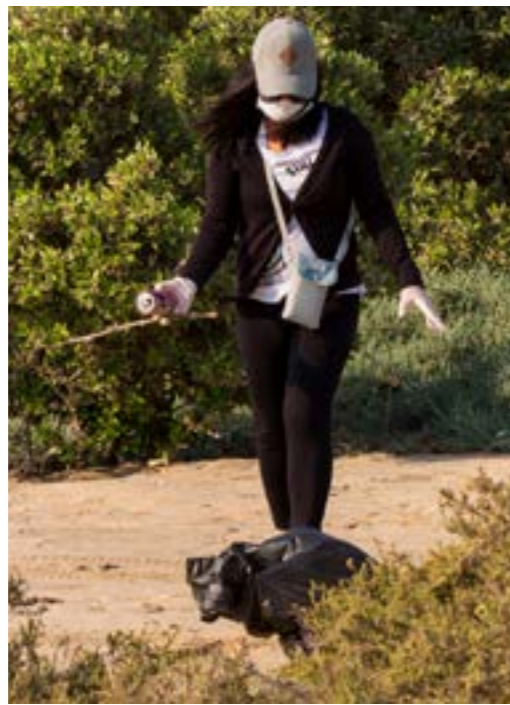
With a wide range of experience across a myriad of mechanical, electrical and plumbing projects, the Quantum team have partnered with our clients to prepare numerous successful large scale, investigative claims for both the prime contractor and client.

“ Mechanical, electrical and plumbing are the three fundamental, and essential, requirements integral to the success of every modern construction project.





QUANTUM FAMILY



QUANTUM FAMILY

The Quantum family is a fundamental cornerstone in how we operate. Our employees, currently working in over a dozen locations around the world, are the key to both our success and the high level of professional service we deliver to our clients.

We recognise the wider Quantum family including wives and children and make every effort to get together and celebrate the success of our company in supporting the ongoing development and growth throughout the world.





CORPORATE SOCIAL RESPONSIBILITY



Q-munity

At Quantum being a responsible corporate citizen is something we take very seriously and we are fully committed to making a positive contribution within the communities in which we live and work.

We strongly believe in the value of family including our employees, their families and the wider community. Our Q-munity Corporate Social Responsibility (Q-CSR) programme actively aims to add long-term value by supporting our interaction with community groups and our support of health, sporting and educational initiatives.



“ The Quantum ‘Donate a day’ initiative was established in 2015 to allow employees to ‘Donate a day’ of their time to a worthy charitable organisation.



مكتبة مکتبه





QUANTUM
GLOBAL
SOLUTIONS

COLLABORATION
INTEGRITY
PROACTIVITY
CREATIVITY
PROFESSIONALISM
SHARING KNOWLEDGE

Sharing knowledge and experience, we
can all work towards the common goal
of successfully delivering projects.



