



QUANTUM
GLOBAL
SOLUTIONS

Data Analytics and AI

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 the MENA region, Europe, Asia, Australasia, South America 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.

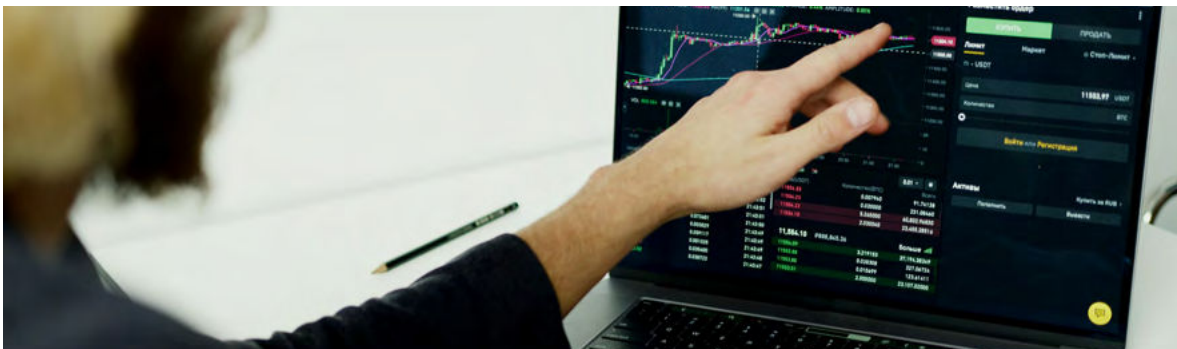
As a leading industry specialist the Quantum team comprises over 200 industry specialists with experts in many fields including Chartered Engineers, Chartered Surveyors, Contracts/Commercial Specialists, Quantity Surveyors, Forensic Delay Analysts and Media Specialists. Our strong reputation around the 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.



Data Analytics and AI

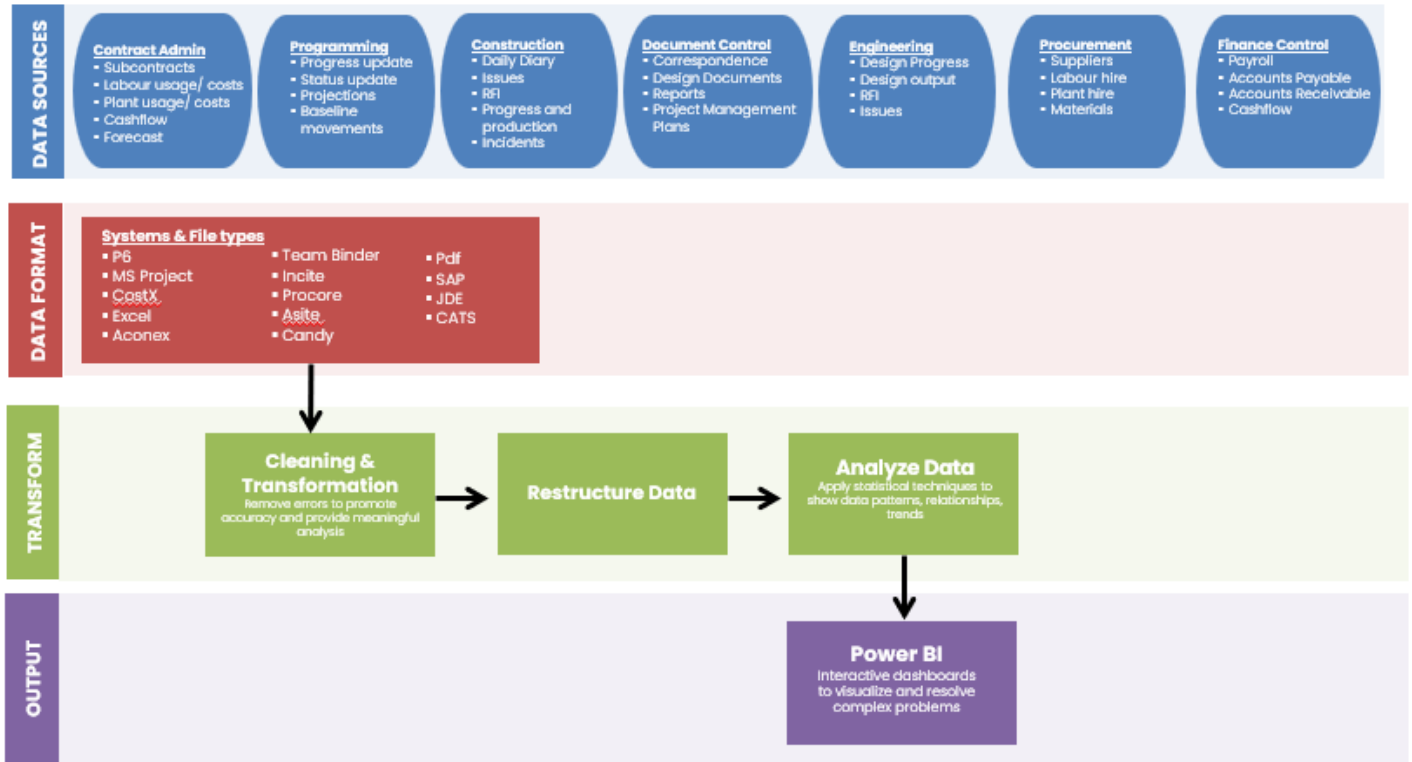
The term artificial intelligence was coined in 1956, and for decades, AI remained largely focused on narrow applications using structured, tabular data. The introduction of Large Language Models (LLMs) has dramatically expanded AI's capabilities in construction. Since the rise of language models like ChatGPT, AI has moved beyond tabular data to process text, images, and more. With a combination of data analytics and the latest advancements in AI, we are able to transform the management of data on construction projects leading to significant time savings, faster claim preparation, better progress monitoring and assurance that essential documents are being prepared and saved.



The role of data analytics?

One of the biggest challenges in construction is managing the vast volume of documents generated throughout a project. Projects generate mountains of unstructured data from various sources such as emails, reports, contracts, planning, and design documents. Important information is often spread across different formats and systems, making it difficult to get a clear, overall picture of the project's progress. Recent advancements in AI have made it possible to ingest, sort, and summarise key documents to develop this picture. Production data from site can be seen in real-time and compared with planned progress, disruption claims can be prepared as the project progresses, and checks can be done to ensure that the vital site data is being generated and saved.

We can take data from any source, regardless of how unstructured it is, and make it structured



Data Visualisation using dashboards

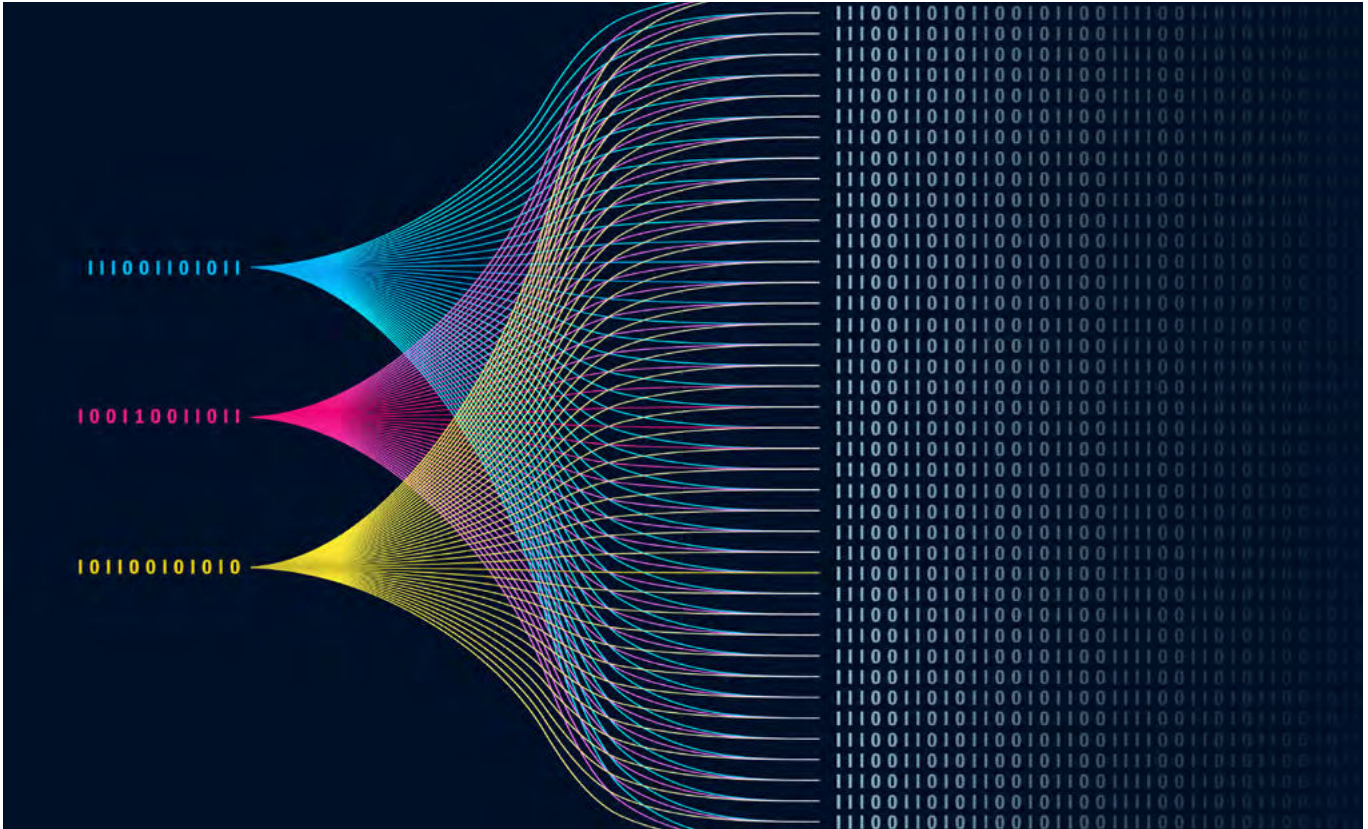
We work with the site team to prepare dashboards which can be used to monitor all aspects of the project for example:

- Design progress
- Planned and actual progress
- Invoicing and payments
- Labour and plant allocation

Alerts can also be prepared if the data is not being recorded. This ensures that vital data is not lost which may be needed later in the project.

Unleashing the power of AI

Once the data is structured the full power of AI can be used. In the same way that AI can be used to prepare an essay using open source data from the internet, AI can now be used to prepare the chronology of events for an issue on a construction site using the secure site data. If a problem arose with, say, unforeseen ground conditions, in seconds the AI can write a description of when work was done (from site records), when a problem was found, (from e-mails) when it was notified (from letters) when it was discussed (from meeting minutes) when it was concluded and a new design issued (from drawing transmittals) and when work was able to recommence (from site records again).



Data Privacy

Using professional corporate AI accounts all data remains completely secure. All of our activities are in compliance with GDPR and Australian legislative requirements and is also compliant with the ACT regulations in Europe.



Global Operations

Our dedicated team of construction professionals work in many of the world's major capital cities in the MENA region, Asia, Europe, Africa, Australasia and the USA meeting our client's requirements and providing local experience and global knowledge.



Meet Our Team



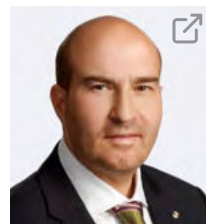
Peter Murphy
Managing Director



Lucia Vernon
Regional Director



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Moneer Khalaf
Regional Director MENA



Michael Davies
Country Director UAE



Elio Al Tannoury
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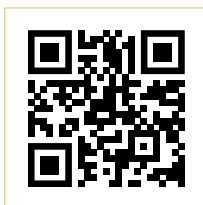


Ali Haydar Firik
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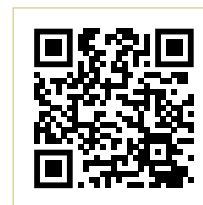
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