

# Make Possible, The Impossible

Utilising AI's capabilities to  
combat climate change.

**QUANTUM**  
ARTIFICIAL INTELLIGENCE

# Why Quantum?

**Data is the last frontier when it comes to competitive advantage. Being able to identify, collate, mine, and interpret your business data – and act on it – provides new avenues for innovation, automation, and growth, irrespective of the market you operate in.**

With a full intelligent solution suite, powered by the latest developments in AI and machine learning, Quantum AI can help your organisation unlock business intelligence with AI, spot trends and patterns in big data with deep learning, and remain secure.

Trusted in the industry, we have created a secure AI platform on the basis of next-generation methods, including future concepts of Quantum Computing, for the modern organisation. We provide business insights, pattern & trend learning, and self-learning.

Quantum helps organisations across sectors achieve leaps forward by providing tailor-made AI-driven solutions that apply Deep Learning, Machine Learning and Artificial Intelligence to rapidly resolve business challenges and unlock intelligence. And we're committed to doing this in an ethical manner.

Our mission is to help businesses apply the best aspects of AI to their business through innovative technology, services and solutions that automate mundane, repetitive tasks, create a competitive edge or improve security. And our objective is always to do so in a manner that augments and informs the activity of your human workforce. AI to assist - not to replace.

# Our Technologies

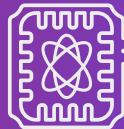


## Big Data

Truly understand  
your business

## Edge

Leverage  
Distributed  
Computing



## Quantum Computing

Powering AI  
Solutions

## Blockchain

Powerful  
performance,  
better security



## Algorithms

Our unique  
proprietary  
technology

## NFTs

A more secure  
and fair digital  
ecosystem



# Our Solutions: Tomorrow's Technology Today

Intelligence that drives innovation, security and growth

Quantum AI deliver a powerful suite of ground-breaking technologies that help organisations across sectors overcome critical business challenges through the very best in Deep Learning and Machine Learning applications. These applications are underpinned and accelerated by harnessing the power of quantum and edge technologies, and combined with our unique algorithms, deliver faster, deeper and more accurate intelligence for your business.

## Quantum Computing

We build intelligent software for organisations of varying operations; creating the opportunity for individuals to do great things with a dynamic AI engine growing with you and your organisation to make better-informed decisions.

The Quantum platform is a real-time, AI-centric product that works intelligently with self-governance. Once calibrated for your requirements, it's then able to self-learn, self-heal, and adapt to deliver insights and performance or security improvements you didn't know were possible.

## Machine Learning

Machine Learning can be a powerful tool across multiple parts of your organisation, with a breadth of capabilities that simply make work more efficient. At Quantum, we see Machine Learning as a powerful ally of your human workforce – Not a threat to them: By leveraging the power of Machine learning tools in the right way, you can free your teams from mundane, low value tasks, and enable them to concentrate on higher-value projects, while getting more of those mundane tasks done faster.

But the Power of AI goes far beyond this: its ability to constantly learn and adapt means it can help human workers find faster, more efficient ways of working themselves, as well as uncover new insights from data that inform more confident human decision making. In any industry where responsiveness counts, this can lead to significant advantage.



## Deep Learning

Deep Learning takes the capabilities of Machine Learning to another level. This is particularly powerful in environments with “Big Data” challenges - large quantities of unstructured data, which simpler ML algorithms might struggle to fully understand, and where therefore, commercial or security insights may be missed.

DL therefore incorporates a significant training stage during which it compares data characteristics and teaches itself how to behave when it encounters similar data the next occasion. And the benefits of this can be felt across almost any business unit, from manufacturing and logistics, through to Human Resources and Payroll. Deep learning helps to disentangle any number of abstract data sets and select which features improve performance, continually providing better insights as a result.

## DDNA

Cybersecurity is a constant technological battle between security and IT professionals seeking to secure their businesses and threat actors looking to compromise it. Increasingly, artificial intelligence has a powerful role to play in keeping intruders out, whilst allowing verified users easy access to the tools and data they need to fulfil their jobs.

Being able to strike the balance between high security and ease of use is critical, and it's where Quantum's Digital DNA platform really comes into its own.

By applying AI to existing security products – whether at the end-user level (such as Single Sign-On Identity Access Management) through to far-reaching SOAR and SASE applications, Quantum DDNA levels up every aspect of your security perimeter. User behaviours are tracked and mapped against 'known' behaviours, with any changes flagged, while deep learning can be leveraged to inform – and automate better network and application design with a SASE framework.

# How Quantum AI can help battle Climate Change

## Enabling Intelligence for the Revolution

Climate change is the single biggest challenge which humanity currently faces and businesses across all sectors are being expected to do more in playing their part to address this challenge. So much so that, similarly to AI, climate change is expected to dramatically transform many business sectors.

And whether your organisation is motivated by a desire to be a good corporate citizen; is responding to increased commercial pressure from consumers, partners, and investors, or a combination of the two, the effectiveness of your response to climate change is likely to be dependent on your ability to collate, understand and react to business data. AI, which by its nature is driven to deliver efficiency, is a powerful tool in any organisation's bid to become greener.

## Reducing the Environmental Impact of Operations

Whatever your industry, a clear first step in reducing your environmental impact is by making improvements to your day-to-day operations, but with so many facets and factors to take into account, ensuring you make the right decision for your business and for the planet can be difficult.

Using the deep learning and neural networking capabilities of AI to understand historic and real-time datasets, and the relationships between them, this decision-making becomes far easier.

With Quantum AI, not only can you mine your business data from an environmental impact perspective, but you can also use predictive analytics to forecast how a multitude of scenarios might play out, enabling you to make the right decision that makes the business greener at a company-wide level and enables it to operate more effectively.

## Implementing New Materials and Processes

Aside from the ability to identify areas for environmental improvement, AI has a powerful role to play in ensuring new green technologies are brought to market faster. AI's computational abilities are already proving invaluable in the identification and testing of new products and materials that displace traditional, harmful materials or negate the need for destructive farming or mining methods for their creation.

Additionally, by enabling advanced prototyping and rapid computational analysis, AI is helping bring these new technologies to market more rapidly than many thought possible. From greener fuels and smart cities through to carbon capture and emissions monitoring, Quantum is already seeing Artificial Intelligence tools proving their worth in the green economy.

# Bringing artificial intelligence and data analysis to eco compliance and CO2 emission control



## Edge analytics

Enables fast and decentralised learnings to be gathered from multiple datasets and applications within the business and externally.



## Tracking and forecasting activity

Understanding historic performance and the factors influencing that performance enables accurate, insightful planning of future activities.



## 24x7 Operations

Optimise media planning and bidding around the clock, respond to live events, and maximise the effectiveness of your operations by automating key functions with AI.

# Take the **Next Step**

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Whatever your data or security challenge, we possess the expertise, technology and mindset to make a transformative difference to your business.

To arrange a demonstration, schedule a detailed briefing, or simply to talk about your challenges, please get in touch on:

Tel: **0207 630 96833** Or email: **[info@QuantumAIplc.com](mailto:info@QuantumAIplc.com)**

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## **Bristol, UK**

3, Portland Place  
Pritchard St  
Bristol BS2 8RH

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## **London, UK**

Victoria Place,  
111 Buckingham Palace Road  
London SW1W 0SR

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## **Colorado, USA**

400, N.Park Avenue  
Breckenridge  
Colorado 80424