

Moata Carbon Portal

Mott MacDonald's carbon monitoring solution for the built environment, enabling a net zero future



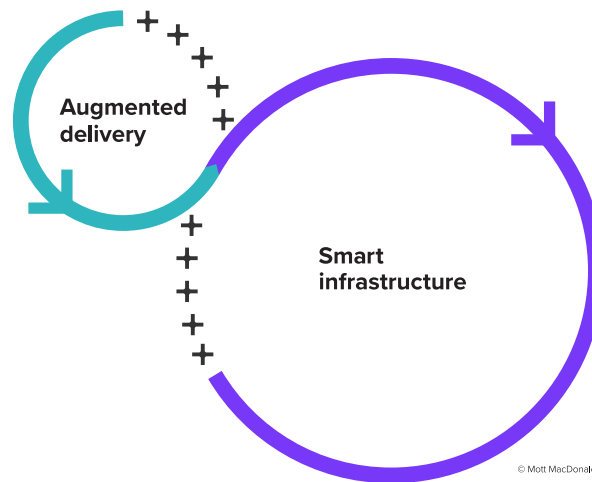
Information is changing the world

A digital world

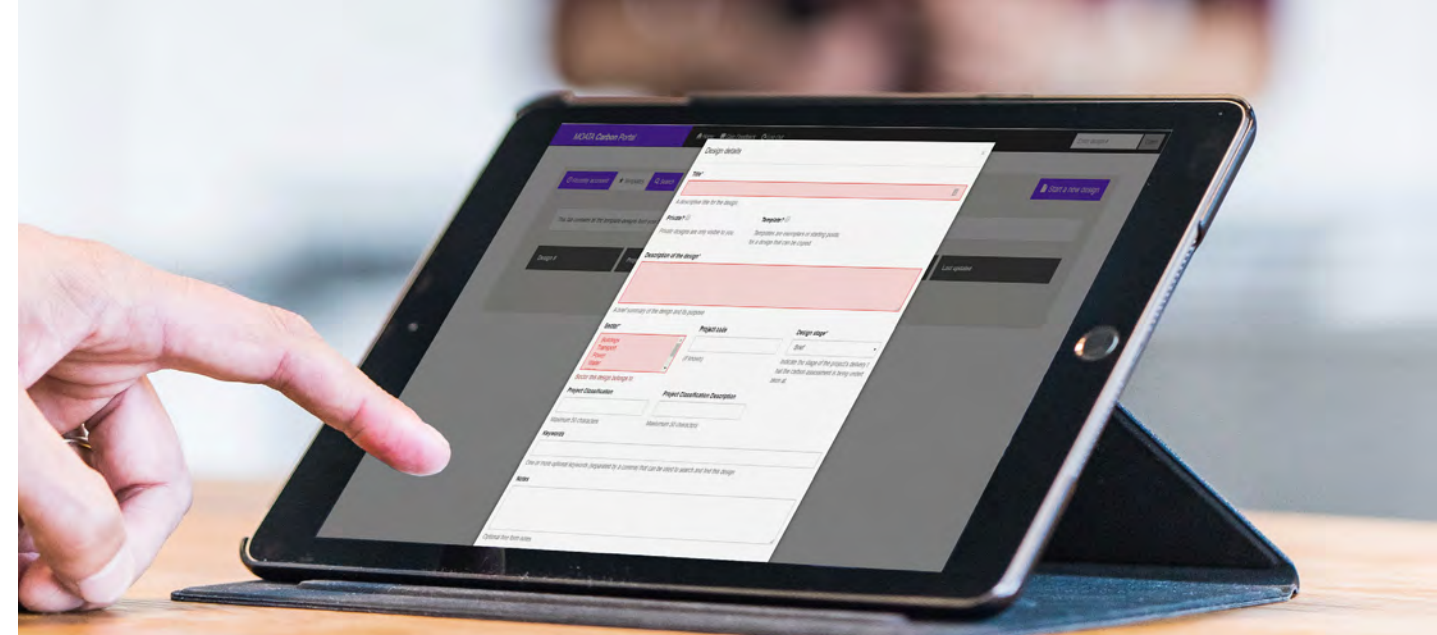
Data and technology are transforming the way we create value – the way we conceive, deliver and utilise the assets around us. Information and collaboration in a geospatial context are crucial to delivering projects efficiently and maintaining assets effectively over their life.

Over 20% of our time is wasted looking for information, and that doesn't take into account the potential impact of making decisions based on the wrong information. We have the world's information at our fingertips yet often struggle to find what we need at work. The right use of technology can save millions – from making the right investments, to productive delivery through to optimising operation. Our platform can unlock that potential.

Bringing the best of digital x domain



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The future is connected

Moata, our digital twin platform, hosts a range of solutions that use the power of data to solve today's most pressing infrastructure challenges around the globe. It is open, secure, scalable and adaptable, delivering predictive power in a geospatial context, through advanced analytics and machine learning.

Moata enables you to see the unseen, act with conviction and impact progress.

Moata Carbon Portal

Moata Carbon Portal is a solution for modelling the capital and operational carbon of new assets. It rapidly calculates carbon in the built environment and allows designers to identify carbon hotspots in a project, enabling a net zero future through facilitating low carbon design.

As it is built on the infrastructure industry's most comprehensive carbon database and **integrated with BIM**, the carbon impacts of design changes can be visualised as they are made. It's also globally compliant with **PAS2080 certification** - the world's first carbon management standard for infrastructure.

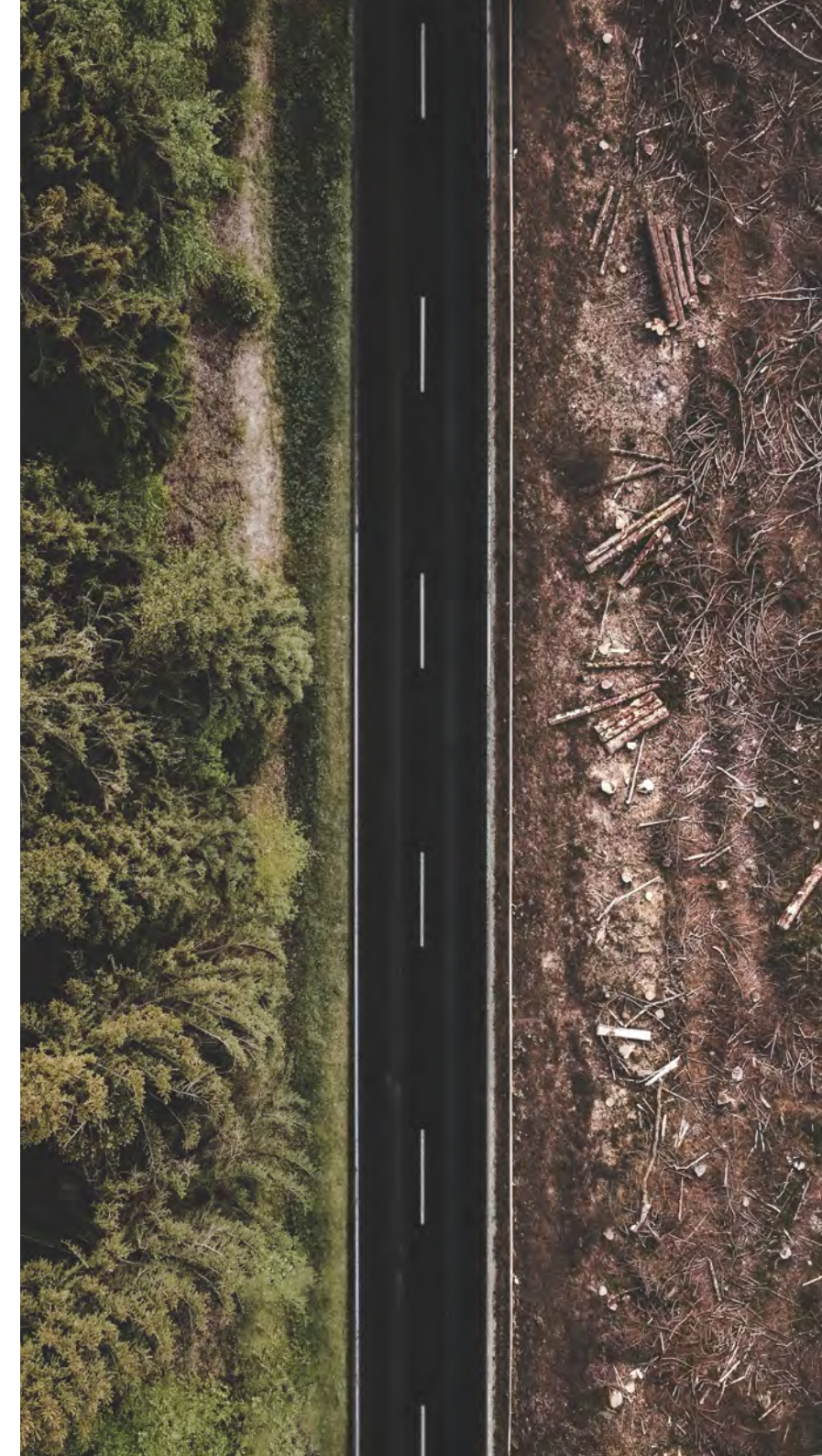
By calculating carbon for **BIM objects and entire assets**, Moata Carbon Portal provides essential information as to where savings can be made at both the planning and design stages. This is where decision making is the most flexible and there are the greatest opportunities to reduce carbon.

It also significantly reduces the time taken to perform carbon assessments. Manual carbon assessments using spreadsheets can take days - but, when integrated with BIM, Moata Carbon Portal reduces this to as little as 30 seconds. It's also based on a drag-and-drop system, which is intuitive to all software users.

Moata Carbon Portal works for **water, transport, and power** assets, with plans in place to cover further sectors in the future. Its datasets are being continually refined and tailored to key regions **worldwide**.

Key benefits

- **Focus on assets, not materials** - by calculating carbon for BIM objects and entire assets, the portal provides essential information as to where savings can be made at the planning and design stages.
- **Reduce the environmental impact of your projects** - by optioneering and identifying carbon hotspots in the design stage.
- **Calculate carbon up to 90% faster than manually** - save time in the design phase with intuitive drag-and-drop functionality, which allows you to make calculations in as little as 30 seconds.
- **Cut costs** - reducing carbon often equates to reduced costs.
- **Stay ahead of regulatory changes** - facilitate low-carbon design by calculating carbon quickly and easily.



Track record

Return on investment

Design time savings

≤90%

faster carbon footprint calculations, compared to manual methods.

Project cost saving

£450k

saving on disposal costs on the Northern Line extension project.

Environmental impact

70%

carbon reduction between Stage 1 and 2 on the A417 Missing Link at Air Balloon project.

Read how Highways England cut emissions by 46% on the A303 Sparkford to Ilchester Scheme with Moata Carbon Portal.



Having worked closely with Mott MacDonald carbon specialists for a number of years, I find the passion and drive to reduce carbon through every stage of the process really refreshing in an industry that often lacks coordination. The PAS2080 framework aligns to our own processes, making collaborative working seamless.

Chris Hayes
Sustainability Operations Director, Skanska UK

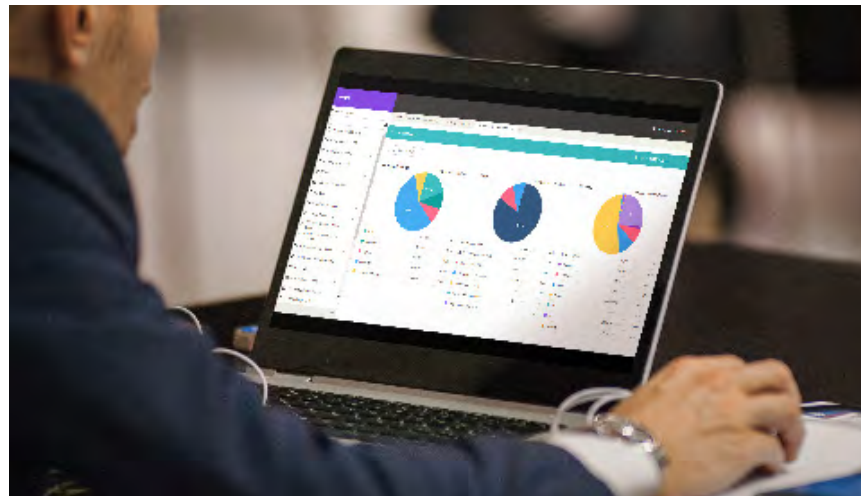


Why choose us?

The world's largest
asset owners and
contractors choose
us because of our
unmatched digital
x domain offering

We aim to support our clients in their net zero ambitions by empowering designers to identify and implement low-carbon thinking throughout the design process. We've codified our engineering and sustainability consultancy know-how within the Moata Carbon Portal, and this unique approach is driving widespread adoption of the software solution.

We intrinsically understand the project at hand and the need to integrate with other information management processes. Our solution is already in use by HS2, Transport for London, Skanska, Anglian Water and many others. It has been proven over time to deliver unparalleled performance. Our performance is exemplar, we typically only ever expand our service as other providers fail to deliver across uptime, service and performance.



Contact us for a demo or [sign up for a 30-day free trial](#) and see what Moata Carbon Portal can do for your business.

Our team look forward to working with you.



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More Moata solutions

At Mott MacDonald we **drive digital transformation** by combining domain experience with digital expertise. Delivering social, economic and environmental value by **connecting innovation to outcomes**. All powered by our digital solutions platform Moata.



Moata.

Engineering innovation on demand.

Moata is our digital twin platform, hosting solutions that use the power of data to solve today's most pressing infrastructure problems across the lifecycle.

Moata is open, secure, scaleable and adaptable, delivering predictive power in a geospatial context through advanced analytics and machine learning.

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