

EV CHARGE POINT PLANNING WITH AI

Optimise Electric Vehicle (EV) Infrastructure with Responsible AI.

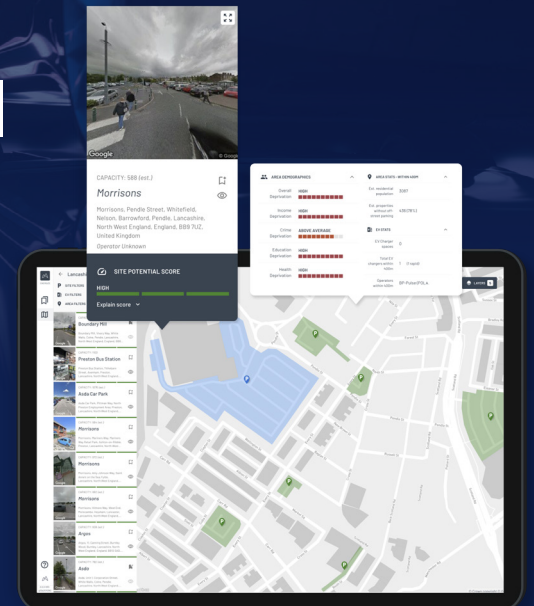
Reach your Net Zero goals with responsible AI that empowers planners to place EV chargers in the most equitable, affordable, and accessible locations.

With new technology comes new obstacles and complications, and as EV numbers continue to soar, it is estimated that more than 400,000 new EV charging points will be required in the UK alone to keep cars fully charged.

Where to put them is a big problem: recent figures suggest a growing disparity between the number of EVs and the level of charge point infrastructure, as well as a “regional divide” within the distribution of this infrastructure. The situation calls for a different approach to how EV infrastructure is implemented to ensure that, as more people switch to EVs, everyone who needs to access a charging station can do so, regardless of geographical or socio-economic factors.

It’s a problem that affects all of us and involves many stakeholders. The Mind Foundry Platform provides a tool for central and local authorities, energy providers, automakers and charge point operators to see the big picture. By combining the most powerful data sets available, we can increase the likelihood that the placement of charging stations is efficient, accessible and fair for all citizens.

mindfoundry.ai



WHAT DOES IT DO?

The Mind Foundry Platform provides advanced modelling technology, including machine learning, to optimise the placement of new charge point infrastructure and support the future needs of a changing population.

WHO IS IT FOR?

- Central and local authorities
- Energy providers
- Automakers
- Charge point operators
- Infrastructure planners

KEY BENEFITS

See the big picture in a single pane of glass

Streamline your planning pipelines at a macro-level with intelligent scoring. Interrogate insights for potential EV charging sites by exploring multi-layered geospatial data from a variety of different sources.

Capture human expertise

Data is powerful, but it only tells part of the story. Use comments and messages to capture the human expertise of your colleagues and industry experts directly within your site selection processes.

View the suitability of sites for EV improvement

A huge number of factors go into the viability of a particular site for EV charge point installation. Quickly assess what the potential of a given site is and what factors have led to these predictions.

Power up collaborations

Charge point planning decisions aren't made exclusively by one organisation. Bring colleagues, contractors, and industry experts into a unified solution that accelerates collaboration.

Increase ethical decision-making that impacts citizens

View, analyse and compare the impact of charge point placement on the local environment and surrounding population by making considerations around the resilience of the local area, transport links, and accessibility.

Make evidence-based decisions with Explainable AI

Humans and AI solve problems differently, but by harnessing AI and data-driven visualisations, you can create more meaningful collaborations.

OVERVIEW

EV Site Potential Scoring

An at-a-glance summary of the viability of potential sites with scoring based on local requirements and knowledge.

Regional Decision-Making

Hone in on regions that you're interested in, and wish to operate within. See the impact at county boundaries and how EV infrastructure varies across your region. Immediately see region-specific KPIs relevant to your planning decisions.

Collaboration Tools

Keep numerous stakeholders in the loop to understand the rationale behind planning decisions and site selection. Explain your thinking and share your insights with comments and messages.

Algorithmic Transparency

Explainability by design helps you to understand the content of algorithmically supported decisions and how the system arrives at decisions.

National and Local Data

Benefit from access to both national and local data sets, including demographic data, land use data, energy network data and more.

Multi-layer Visualisation

When extracting insight from multiple layers of geospatial data it can become saturated and difficult to understand. For any given region, the Platform provides clear intelligence, enabling you to assess the impact of any potential EV charging station.

Export Data and Reasoning

Export your planned site portfolios to use in connection requests and funding applications for EV infrastructure, complete with your decision-making process clearly documented.

Data Provenance

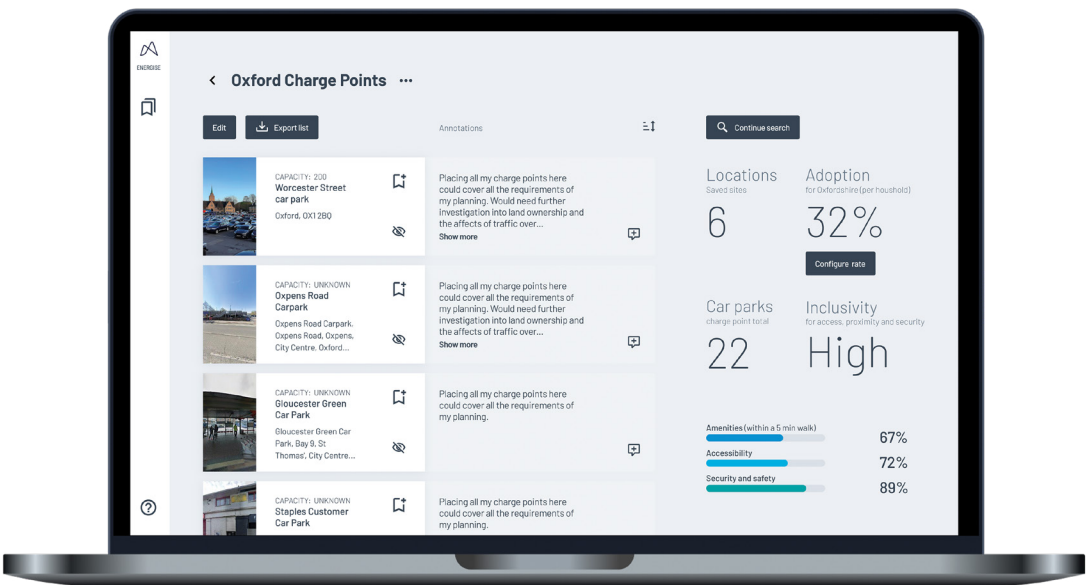
It's hard to make decisions from disparate datasets if you don't know where the data comes from. All data is supported with full data provenance so you know where it comes from, how old it is, and how much you can trust it.

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The importance of deploying the right type of charging asset in the right location to meet the demands of a rapidly increasing requirement for chargers against the need to minimise disruption cannot be overemphasised. A flexible, easy-to-use mapping system utilising readily accessible data is a key component of the analysis that needs to take place to make this happen and the solution being developed by Mind Foundry has the potential to make this work easier, simpler and more accurate than anything we've used before.

Paul Gambrell
Team Leader - EV Integration
OXFORDSHIRE COUNTY COUNCIL

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A PARTNER YOU CAN TRUST

Applied Machine Learning Lab

Countless years of our teams' experience with AI in high-stakes applications is at your service, to help you optimise your EV charge point planning. From feature selection to data integrations, our dedicated Customer Service Support Team has your back.

Mind Foundry Academy

Theory meets practice in a learning platform to equip humans with the skills to effectively engage with AI in the real world. The Mind Foundry Academy is an online, interactive course that offers customised learning tracks to help your team understand the latest applications of machine learning for high-stakes applications of AI.

Why choose Mind Foundry?

Founded in 2016 by AI pioneers Professors Stephen Roberts and Michael Osborne, Mind Foundry is an Oxford University company operating at the intersection of innovation, research, and usability to empower teams with AI built to tackle high-stakes, real-world problems at both individual and population scale.

Our solutions help organisations implement AI responsibly, with a meaningful understanding of how the technology works.

FEATURES

- **Intelligent site potential scoring**
- **Single source of truth for all users**
- **Macro and micro level evaluation**
- **Create projects for planning and funding applications**
- **Algorithmic transparency**
- **Data provenance**
- **Geospatial explainability**
- **Regional decision making**
- **Customer support**
- **Collaboration features**
- **Exporting and reporting functionality**
- **Visualisation of data from multiple sources:**
 - Geospatial and demographic
 - Regional
 - Land
 - Energy network
 - Parking and house
 - Street