Engineer Data

Optimized forecasting and investment strategies

Optimized forecasting and investment strategies for 11 electricity grid operators, driving operational efficiency through data-driven GIS solutions.

2022 – 2024

11

grid operators forecasting on the same data

Situation. Electricity grid operators live and die on decisions about where to reinforce the network and where to put their money, and eleven of them were making those calls without much geospatial analysis underneath. They had the operational data. What they didn't have was a way to see it on the map, where the patterns actually live.

Task. The job was to sharpen their forecasting and their investment strategies with GIS — to turn tables of readings into something that showed them where capacity was getting tight, where risk was building, and where the next pound was best spent.

Action. Their operational data was brought together with geospatial modelling so the two reinforced each other. Instead of forecasting in the abstract, the grid could be looked at spatially and asked concrete questions: which stretches were heading toward their limits, which areas justified investment first. For eleven operators that meant fitting the analysis to how each of them actually ran their network, not handing everyone the same template and hoping it fit.

Result. The operators came away with forecasts they could trust and investment decisions that were aimed rather than hopeful. Grounding the planning in what the map showed made the whole thing more efficient — money and attention went where the data pointed instead of where habit did.

Bring this experience to your project

Use “Optimized forecasting and investment strategies” as a starting point for a similar challenge in your organisation. The services behind this work are available for your project. Dashboards and reports showing the handful of figures a decision actually turns on, refreshed without being asked.

Explore our services Get in touch →

Look behind the result

Read the situation, decisions and result in this example. We can discuss which parts transfer to your constraints and which need another approach. Optimized forecasting and investment strategies — 11 grid operators forecasting on the same data

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Need data-driven forecasting you can trust?

Talk through your project with the engineer responsible for delivery. We agree the scope, price basis and handover in writing before work begins.

Role context: GIS Software Development Team Lead. It draws on Data Engineering, Data Analytics, GIS / Geospatial, Product & Requirements and Stakeholder & Reporting. And while you are here, we are rather good at GIS & Geospatial Solutions, Data Analytics & BI Dashboards and Product Strategy & Requirements.

Get in touch Explore our services

One piece of **a longer record** — and it is all on this site.

Every entry is written the same way: the situation, the task, what we did and what changed.

See the whole record

Define the improvement you need

Bring a representative dataset, the questions it must answer and the current bottleneck. We can agree how to measure quality, throughput and recovery.

See what it costs Get in touch →

Need data-driven forecasting you can trust?

Ask about the decisions behind “Optimized forecasting and investment strategies”. You will speak with the people who can explain the work and assess your own project.

Explore our services

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Contact card

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