Engineer Software

Automated delivery of 20 GIS data pipelines

Automated delivery of 20 GIS data pipelines and app data ETL processes, streamlining infrastructure automation and reporting.

2022 – 2024

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GIS pipelines delivered without a person in the loop

Situation. The platform ran on a lot of GIS data pipelines and application-data ETL processes, and they were being delivered and watched by hand. Hand-run pipelines create bottlenecks, they drift out of consistency, and worst of all they carry a constant low risk that one quietly fails and nobody notices until the data's already wrong downstream.

Task. Automating the delivery of those pipelines and ETL processes — so the data flowed reliably and predictably without someone shepherding it — was the task.

Action. Twenty GIS data pipelines and the application-data ETL came under automated delivery, end to end. The scheduling, the logging and the failure handling got standardised, so every pipeline behaved the same way and, crucially, you could see when one didn't — a silent failure is only silent if nothing's watching. And they were folded into the existing infrastructure automation and reporting, so they were part of one coherent system rather than a drawer full of scripts someone had to remember to run.

Result. All twenty pipelines and their ETL ran automatically and predictably, and the whole infrastructure-automation and reporting picture got tidier for it. The business got dependable, current data without anyone having to walk it through by hand — and without the quiet-failure risk hanging over it.

Bring this experience to your project

Use “Automated delivery of 20 GIS data pipelines” as a starting point for a similar challenge in your organisation. The services behind this work are available for your project. Anything that happens in a place — vessels, vehicles, plots, sensors — put on a map you can search, measure and share.

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. Automated delivery of 20 GIS data pipelines — 20 GIS pipelines delivered without a person in the loop

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Tired of running data pipelines by hand?

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: DevOps Engineer. It draws on Data Engineering, Data Pipelines (ETL/ELT), DevOps, Automation & CI/CD, Reliability & Backups, Monitoring & Observability and GIS / Geospatial. And while you are here, we are rather good at GIS & Geospatial Solutions, Data Pipeline Development (ETL/ELT) and DevOps & CI/CD Automation.

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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

Describe the workflow, the existing interfaces and the users who need the change. We can define a testable delivery and a handover that lets your team maintain it.

See what it costs Get in touch →

Tired of running data pipelines by hand?

Ask about the decisions behind “Automated delivery of 20 GIS data pipelines”. 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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