

How a delivery team avoided redesign and saved 6 weeks

sensat



A UK water company was two years into planning a major infrastructure upgrade when the initial design was rejected. Critical site constraints had been missed, forcing redesign and delaying progress through gate stages.

The project team used Sensat to bring all site information into one shared view, helping them understand risk earlier, align specialists faster, and move the project forward without further redesign.

THE PROBLEM

Late surprises were slowing delivery

The project site sat in a historical coal mining area, creating hidden risks below ground. These risks were known in theory, but difficult to understand in practice because information was scattered across systems.

Project teams were working with:

- Coal Authority data
- Geological surveys
- Underground utilities
- CAD models
- PDFs, GIS screenshots, and shared drives

This made it hard for the PM to confidently explain site risk, slow to get alignment across teams, and easy for critical issues to surface too late.



The workaround wasn't working

Before Sensat, understanding the site meant:

- Long meetings to explain constraints
- Specialists working from different views of the same data
- Repeated clarification and rework
- Designs progressing without shared confidence

This ultimately led to the initial design being rejected.

How Sensat was used

The delivery team used Sensat to bring all relevant site data into a single visual view, overlaid on real-world context.

This included:

- Coal Authority and geological data
- Underground utilities
- Design models
- Topographical and LiDAR surveys

Instead of chasing information, the PM could see and show the full site context in one place.

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Trying to explain the effects of a fault is a nightmare. These fault lines are 300–500m deep and the material around them is unpredictable. The design team needs to understand that risk early.

GROUND INVESTIGATION SPECIALIST,
TIER ONE WATER COMPANY

What changed for the delivery team

Faster alignment

Specialists could point to the same view of the site, making risks easier to explain and decisions quicker to agree.

Less admin

Time spent hunting for files, screenshots, and explanations dropped significantly.

Fewer redesigns

Designs could be checked against real site constraints earlier, reducing late-stage surprises.

Easier sign-off

The PM could clearly show why decisions were made, speeding up approvals.



The result

6 weeks

Plans handed back in 6 weeks, instead of the typical 3 months

Reduced rework

after initial design rejection

Faster progress

through planning stages with fewer blockers

Why this mattered

For the project delivery team, Sensat wasn't another system to manage. It became the place to understand the site, explain risk, and keep the project moving.

See how Sensat works on a real project site like yours.

Contact us