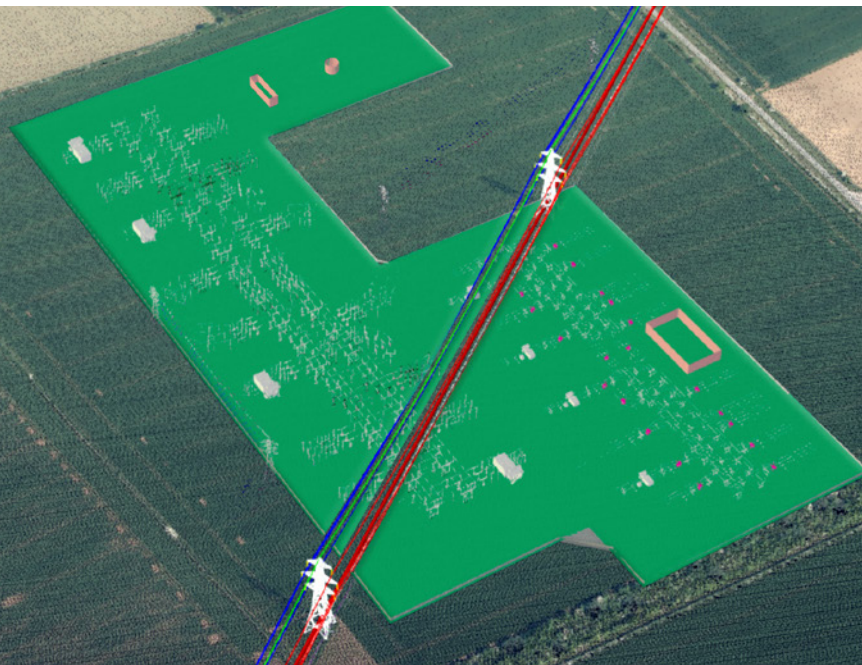


# “I want to get more value from the data that we already possess”

National Grid's Connections teams leverage Sensat's visualisation platform to support virtual siting studies and option selection for substation upgrades.



Above Substation designs visualised over National Grid LiDAR data alongside constraints.

**We went from five options down to two clear frontrunners in a single meeting using the contextual data made available by Sensat. We could identify the hazards and constraints very quickly.**

Matthew Doherty, Connections Engineer at National Grid

## Challenge

### I want to get more value from the data that we already possess

National Grid Energy Transmission need to conduct a siting study for a new UK-based substation in Navenby, Lincolnshire. National Grid has vast amounts of information available to support their projects. However, this information is

- Stored in different platforms which require specific licensing.
- Held in various formats, including PDFs and on paper maps.
- Managed by other teams.

On top of that, the team possesses excellent LiDAR data but struggles to access and view it. In response, the Connection teams sought a solution to open access to their information earlier to meet their deadlines.

## Solution

In an options selection meeting the team

**Eliminated  
3 options in  
25 minutes**

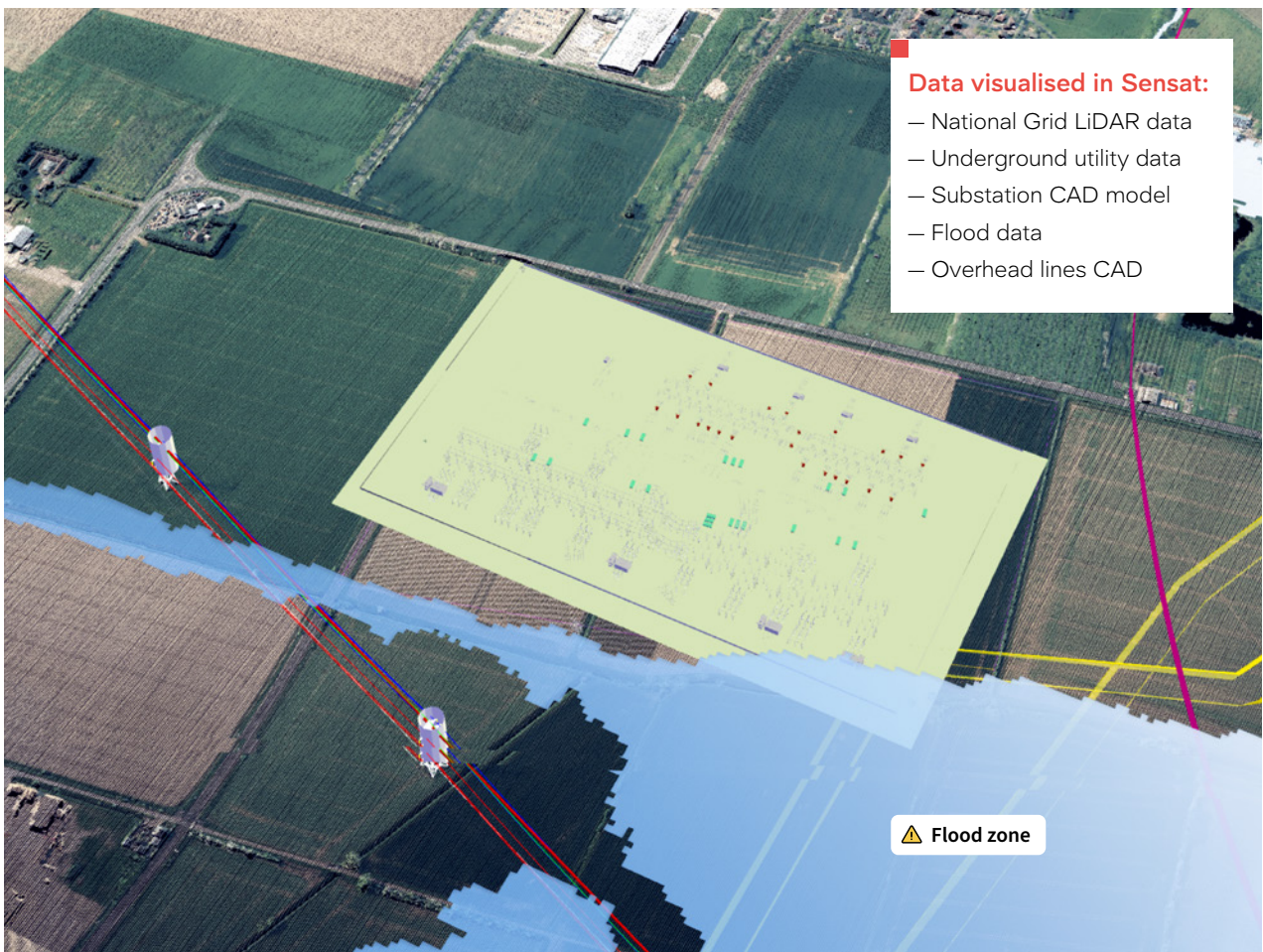
which would normally  
take 2.5 hours

## Easily understand how site constraints affect your options

Sensat's single platform enables teams to visualise and access all of their helpful 2D and 3D data in the context of reality. By visualising these data sets together, teams can bridge understandings of previously disparate data sets earlier on in the process. Instead of overhauling existing software, users from different teams can complement their systems thanks to Sensat's extensive file type acceptance.

Using Sensat, National Grid is getting more value and usage from the data sets that they already have. This complete project view informs decision-making during siting studies, highlighting constraints that wouldn't be visible during a site walk. Teams more efficiently conduct siting studies from their desktop to analyse the viability of designs on the area.

**Below:** Substation designs visualised over National Grid LIDAR data alongside constraints.



Download the full case study here:

