

# Remote Telecoms Upgrade

## Objectives

Aurora delivered a remote telecoms infrastructure upgrade involving the decommissioning of an existing pole and installation of a new 20-metre telecoms mast. The project was located in a highly remote area with significant access constraints. Careful planning and complex logistics were required to transport oversized equipment through narrow, weight-restricted roads in Northern Ireland. Despite the challenges, the project was completed successfully, supporting ongoing network infrastructure improvements. We sought to safely decommission an existing telecoms pole and install a new upgraded mast in a remote location with minimal disruption to surrounding infrastructure.

## Our Solution

- Aurora delivered a highly adaptive and well-coordinated solution that included:
- Detailed logistical planning to navigate narrow roads and weight-restricted zones, using specialised tractor-trailer transport for the final approach.
- Deployment of a Jekko 545 compact crane to lift and position the new mast and remove the old one, allowing for precise installation from limited access points.
- Use of flexible work methods and contingency plans to respond to changing weather and ground conditions.

## At a Glance

### Challenges

- The project involved numerous site-specific challenges that required tailored solutions, including:
- Adverse weather and unstable ground conditions
- Narrow access roads with limited passing points and a 2.9m width restriction
- Local traffic management requiring coordination with authorities and road closure permits
- Weight restrictions near the site, necessitating a mid-route load transfer
- Complex lifting operations requiring specialist compact crane equipment
- Use of track mats and constant site adaptation

### Value to client

Aurora's ability to adapt quickly and think creatively ensured the project was delivered safely, efficiently, and without delays. The successful upgrade provided the client with a future-ready telecoms installation and a clear pathway for future infrastructure improvements in remote environments. The project showcased Aurora's capability to execute complex logistics and engineering tasks under difficult site conditions — delivering results with precision and reliability.

