

NATIONAL UNDERGROUND ASSET REGISTER



THE FACTS

4
million

holes and excavations are dug across the UK each day

60
thousand

utility strikes each year

£2.4
billion

in costs due to utility strikes per year

OBJECTIVE

The UK does not have a single platform that allows consistent access to data related to underground assets. NUAR will improve the efficiency and safety of underground works by creating a digital map of underground pipes and cables. It will revolutionise the way we install, maintain, operate and repair our buried infrastructure.

CHALLENGES

- Unforeseen ground conditions are a major obstacle to all construction and housing projects, especially on previously developed land.
- Each utility holds data in different repositories, formats and locations, and have different ways of capturing and storing data, making the quality inconsistent.
- Lack of access to comprehensive information may cause workers to dig through live cables and pipes with risk to life. Accidental strikes can cause project delays, increase road closures and congestion, negatively impacting local economies.

OUTCOMES

- Reduced utility strikes, improve efficiencies in construction and development, minimise disruption and improve workers' safety.
- Cost-savings estimated at £347 million per year over 10 years.

HOW IT WORKS

Each owner shares their data through the platform

Data is transformed and validated against the NUAR data model

Data is made available in a secure manner to workers planning or carrying out excavations