



## Smart Construction

### Embracing Digital Innovation and Technology

The Government 2025 industrial strategy states reduction of 33% in the initial cost of construction and the whole life cost of built assets, while also delivering 50% reduction in the overall time from inception to completion of new build and refurbished assets.

Smart Construction has been identified as a major tool for delivery these aims, therefore investment in digital construction and leveraging technology is essential to ensure targets are met.

Improving the utilisation of people, assets, and materials will have a significant impact on cost and profitability within the construction industry and help construction companies achieve 2025 targets.

### The Iknaia Solution

Iknaia's sophisticated tracking platform uses state of the art sensor technology to track and monitor workers and assets in real-time.

It has widespread application within the construction industry and will enable companies to increase their productivity and profitability by presenting real-time data on the location of valuable tools and equipment. Identifying key assets in 'real time' can be key to a successful construction project, as can protecting employees in an industry where accidents and injury are an ever present danger.

Our bespoke hardware and 'self-service' dashboard is easy to configure and view, with an additional API that can be used to fully integrate data into any third party platform.

Our network of nodes can be set up to connect with existing infrastructures and devices, as well as being deployed on a completely isolated basis. It is also an ideal solution where rapid telephony deployment is required or where temporary business locations are used.



### UK Statistics

- There were 30 fatal injuries to workers in the Construction sector in 2016/17
- The worker fatal injury rate is 3 times the average rate across all industries
- The total cost of workplace injury and new cases of work-related ill health in Construction in 2015/16 is estimated to be £1 billion
- □ Theft and losses on construction sites costs the industry £880m a year in the UK

Source : [www.hse.gov.uk/statistics](http://www.hse.gov.uk/statistics)

**For Further Information**

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## LONDON POWER TUNNELS

Wandsworth

In February 2011, National Grid embarked upon a seven-year, £1bn project, to rewire the capital via deep underground tunnels, in order to meet increasing electricity demand and help London access the renewable energy of the future.

In total 32km of tunnels are being constructed deep below the road network, which will carry high voltage electricity cables.



### Case Study

Traditionally, in tunnels and mines, workers wear 2 brass Tallys on their belt clip and on entering into the tunnel one tally is put on the board in the tally hut to ensure the Tally Man knows who is down in the tunnel at any time. This system doesn't allow management to identify the location of workers. Above ground tracking solutions don't work underground so no technology solution had previously been trialled.

Working with Costain, Iknaia installed a network of its detector nodes to track the location and identify whether skilled workers were in the right place at the right time. In real-time, construction managers could see the movements and location of their workers, monitoring which zones were being worked in and where their valuable assets were.

Iknaia provided live intelligence of the location of hazards, such as the location of gas bottles and the proximity of workers near plant machinery. The detector network was set up to work as a completely standalone network, using 3G to communicate the data to our cloud servers.

Protect and locate your assets and workers in real-time



Smarter Tracking, Smarter World