



5G Art of the Possible

Value Tracking Case Study



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Background

5G is the latest generation of cellular mobile telecommunications technology/ services and has been trialled extensively across electricity distribution across the world. This project aims to investigate the opportunities that 5G networks can offer Gas Transmission with regards to the provision of high bandwidth wireless communication channels as well as location-based services. The project will provide an extensive overview of the current and future capabilities of wireless networks as well as collect and evaluate potential use cases.

What's new?

Working with Digital Catapult, the business shared current activities/ technologies used to perform day to day management of the National Transmission System (NTS). It was identified that there was potential benefit in the following areas:

- Communications Resilience
- Asset Management
- Workforce Management Digitalisation
- Supervisory Control

It was identified that substantial savings could be made utilising 5G and ensuring clear connectivity across the network and being able to provide better quality data.

Sufficient knowledge was gained to be able to develop a concept for deploying 5G within National Grid/ National Gas Transmission. This could be utilised in various technical solutions such as the delivery of communication services, asset management or workforce management. The technical report outlining this work has been documented for usage by stakeholders going forward.

The benefits

Improved understanding of 5G networks and capabilities for use within gas transmission. This improved understanding has enabled wider review work regarding technology development and will form part of future decisions.

Financial savings

No specific benefits highlighted. Solution to be monitored as future business decisions are reviewed and opportunities explored as a result of this project.

Implementation

The outputs of this work have been documented for future use by the business. Outputs have been considered as part of upcoming IT projects and further usage to follow. Outputs of this work to be tracked for the impacts of initial 5G review work and follow on work it has enabled.

