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| Network Innovation Competition 2020 Supplementary Answer form | | |

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| Project Name | QUEST | | |
| Question number | #8 | Pro forma section | Section 9 |
| Question date | 18/08/2020 | Answer date | 20/08/20 |
| Question summary | What deliverable will be provided as part of the ESO collaboration? | | |

## 

## Answer (please retain document formatting and do not exceed 2 pages unless otherwise agreed with Ofgem)

Our collaboration with the ESO will explore how QUEST can be used to support ESO network operations. We will work with the ESO to define the relevant use cases and to complete the associated trials using network modelling.

As such, our collaboration with the ESO will feed into a number of our deliverables, including:

1 – QUEST Initial Report – Use Cases

We will work with the ESO to define the use cases and scenarios to be trialled during QUEST, which will be detailed within this document.

2 – QUEST System Design and Architecture Lessons Learned

The ESO will identify their requirements as we design the specification for the network models and modelling regime for QUEST. The lessons learned from this collaboration will be detailed within this document.

3 – QUEST Trials, Design and Specification Report

This report will detail the project progress, including outputs such as functional specifications and trial design. Feedback from the ESO will help to shape these outputs and will be included in the report.

4 – QUEST Interim Report – System Design and Technology Build Lessons Learned

This document will detail all lessons learned from the project thus far, including software development and testing, and system model development, and will include all relevant insight and feedback from the ESO received to date.

7 – QUEST Trials and Analysis Report

This report will detail all project conclusions and lessons learned during the course of the project, including all feedback from the ESO.

Further information about our collaboration with the ESO is provided in the full submission, which we have summarised below:

* Section 2.2 details our collaboration with the ESO. We will explore how we can provide enhanced visibility of the distribution network to enable better management of constraints, and facilitate entry of flexible services providers to the ESO’s markets. Additionally, we will explore how we can provide “tuned” responses for demand control and OC6.
* Section 2.3 details the trial design. We will use network modelling to trial the ESO use cases.
* Section 3.6 details the benefits to the ESO. We anticipate that the QUEST functionality could enable more efficient operation of the transmission network, via an enhanced response to system events, improved visibility of embedded active participants on the distribution network, and controllable, whole distribution system voltage management.