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# The Power of Data and Digitalisation Showcase of ENWL QUEST Project

Energy Innovation Summit 2022

Presented by: Maurice Lynch

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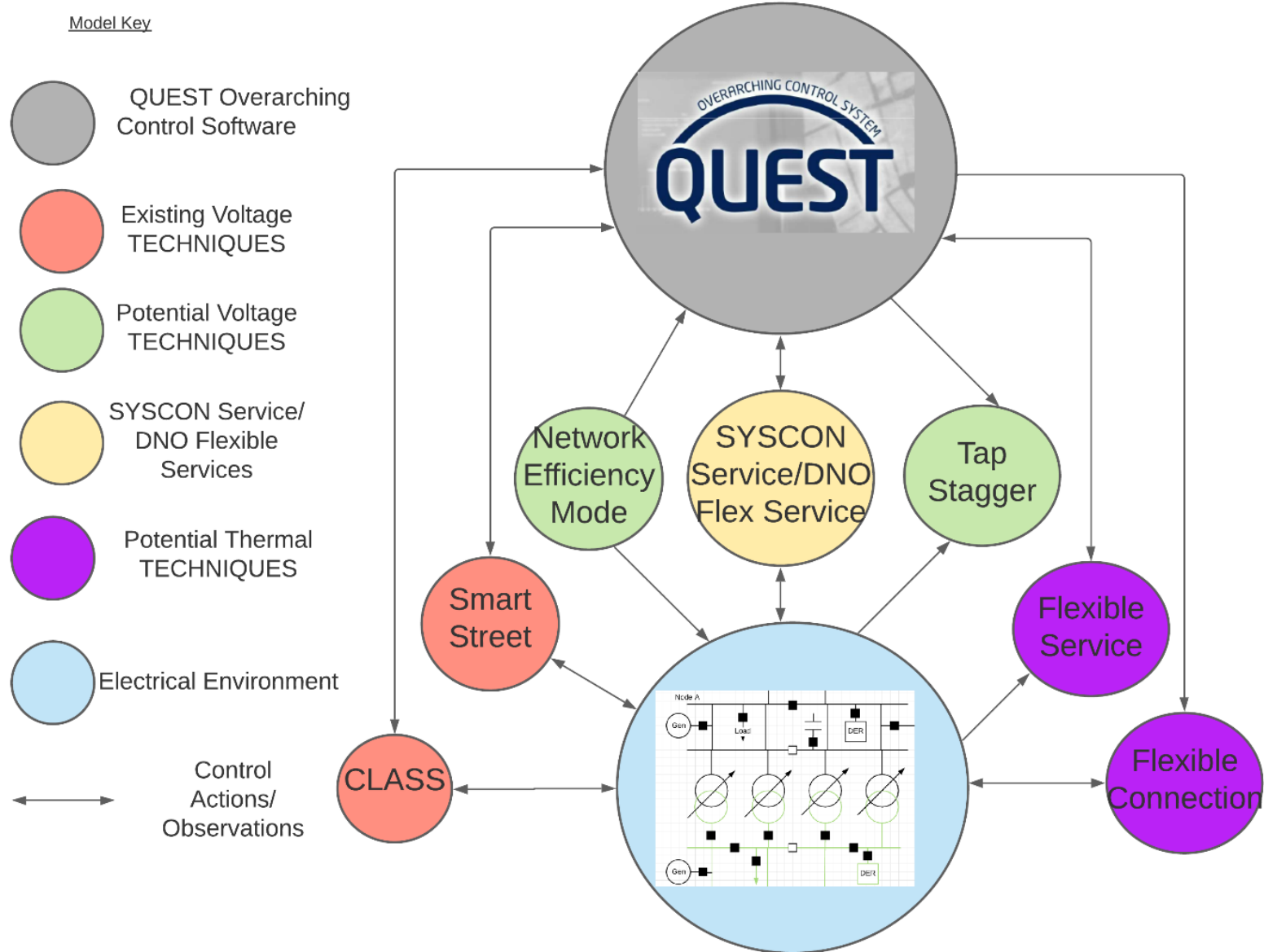


In November 2020 Ofgem announced its decision to award ENWL's full funding request of **£7.95 million** for the QUEST project.

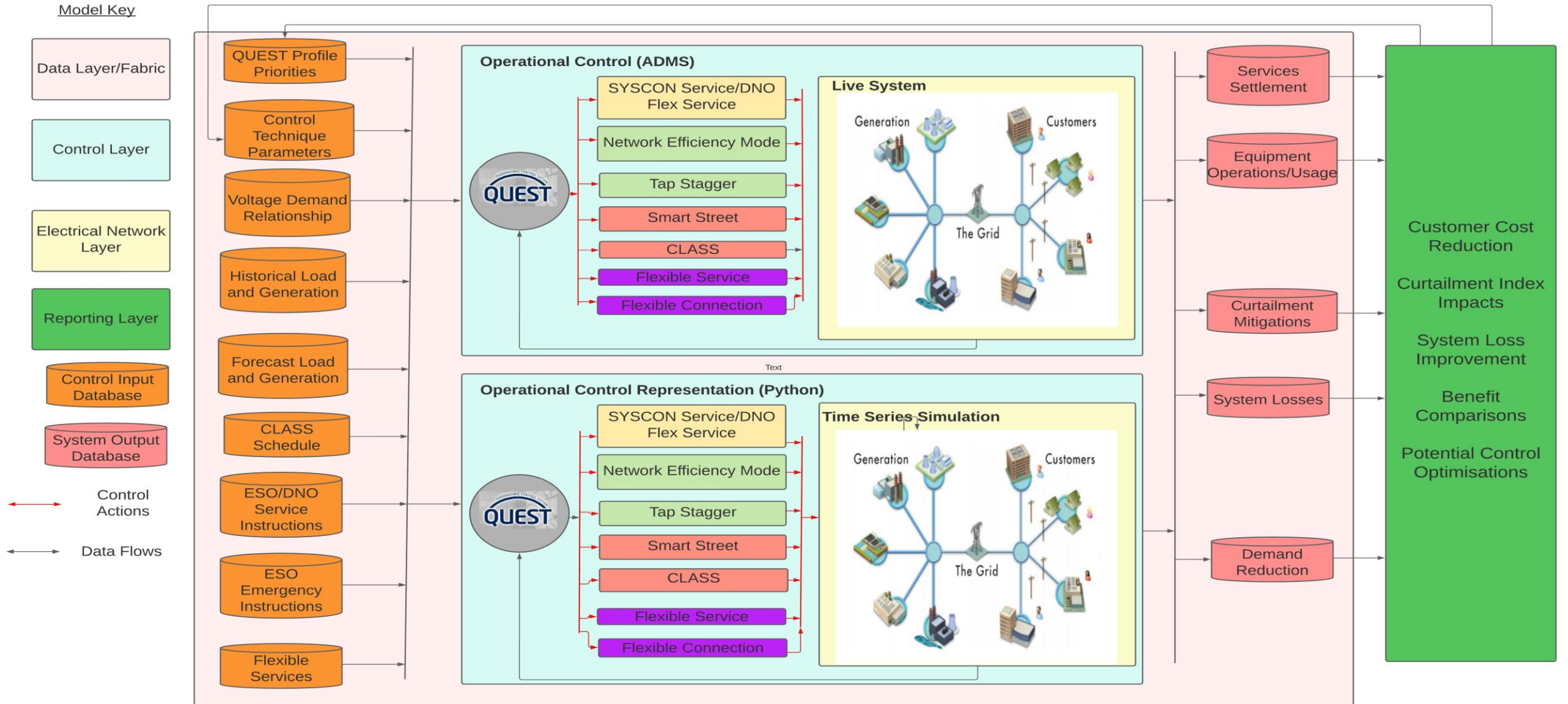
QUEST is an overarching system that will be designed to provide a holistic voltage control methodology to co-ordinate discrete voltage management techniques, to optimise their use and facilitate the increased use of LCTs.



# QUEST voltage control methodology



# QUEST data cycle





## ESO virtual energy system strategy

*“The ambition of the Virtual Energy System programme is to enable the creation of an ecosystem of connected digital twins of the entire energy system of Great Britain. It will operate in synchronisation to the physical system.”*

This sharing of data will facilitate more complex scenario modelling to deliver optimal whole-system decision making.

The QUEST project team recognised many parallels from the project conclusions from past deliverables/presentations, and what we have effectively configured for QUEST is a ‘Digital Twin’ of the operational system.





The QUEST control system will utilize multiple past and present real time data streams to forecast and co-ordinate voltage techniques to maximised network benefits to customers.

Changes in network behaviour will be identified via data, informing of potential impacts and reprioritization of voltage techniques.

The QUEST project has created a bench test model to develop the understanding of data fabric with the network.

## Important Note

The QUEST control software will be the first live trial shot of DSO control application.

# QUESTIONS & ANSWERS



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