

# East Kent Resignalling Phase 2



## CASE STUDY



### Overview of Deliverables

The East Kent Resignalling Phase 2 Project is the second phase of the overall East Kent Resignalling Programme, which will concentrate control of a significant portion of Network Rail's Kent route into the East Kent Signalling Centre (EKSC), located at Gillingham.

The principal purpose of the project is to improve asset condition, provide capacity & capability enhancements and deliver operational savings within the project area. The project comprises the total renewal of life-expired signalling on a section of the Chatham Main Line between the end of the Phase 1 project near Sittingbourne, and the Victoria Signalling Centre control area near Longfield, alongside the re-control and partial renewal or modification of existing signalling on connecting routes.

Network Rail approached Vertex to gather data and carry out an initial assessment of asset condition, and undertake a Whole Life-Cycle Cost (WLCC) assessment, comparing the various option technologies relevant to the scope of the East Kent Phase 2 Project.

### Deliverables Included:

- Data gathering and initial assessment – paper of findings;
- Undertake WLCC assessment – paper and quantitative analysis; and
- Summary paper and power point presentation.
- Technical competencies applied in the delivery of the contract

### Vertex employed the following competencies during these works:

- Optioneering of technical, operations, maintenance and whole life cost to develop the suite of feasible options, including demonstration of acceptability to stakeholders' requirements;
- Technical knowledge of the proposed system in question, incorporating over 20 years' experience in project development and delivery and adhering to the Network Rail Project Management (GRIP) process;
- Data Analysis and Whole Life Costing- to understand the nature of the problem, the costs incurred and the whole life costs of proposed solutions, in order to ensure value for money and
- Systems Engineering- appreciating the impact of the proposed solution in terms of its whole-life implementation.

### Programme start and completion dates

Project duration was from October 2012 – March 2013 with every milestone achieved as per the base plan.

### Resources utilised

Vertex utilised its team of Railway Systems Engineers and Project Managers for this project. Qualification held includes membership of the Institution of Railway Signalling Engineers, membership to the Association of Project Managers (MAMP), Project Management Professionals (PMP) and professional Chartership (C.Eng.). Vertex relied heavily on its wealth of experience in WLCC assessments from similar contracts with clients such as Crossrail Ltd and Veolia Water (Three Valleys Ltd).

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