

Since its introduction, Vertex has supported many transport organisations with safety engineering and assurance services, in particular in the area of safety critical change. With regards to the processes applied for rail within the European Union, Vertex provides the full range of proposer Common Safety Method services and AsBo to UK clients such as Transport for London, Network Rail, the Tier 1 supply base and TOC/FOC for works deemed as “Significant”. Most recently, this included the London Overground Capacity Improvement Programme (LOCIP), which recently won the ICE (London – Civil Engineering) award. Vertex was responsible for delivery of project safety assessment and the product approval for Correct Side Door Enabling and Selective Door Operation systems that enabled the 5-car operation.

Vertex provide the complete service from the Safety Planning stage, assessment of Significance under ROGS, Chairing of HAZID/HAZOP sessions, production of CSM-compliant Hazard Logs and associated Safety Risk assessments to fully detailed Safety Cases. Vertex can also act as the Client’s Agent in liaison with CSM Assessment Bodies.

Through Vertex’s experience in the delivery of CSM submissions for many complex projects, we are able to ensure the assurance process is no longer one of the top risks in any project.

### Example CSM Projects:

- July 2012 to date: numerous GRIP 1-4 developments such as Norwich Yarmouth, Cambridge & Victoria 2
- July 2012 to date: numerous product acceptance applications such as Thameslink Programme and Furgo RailData RILA approval
- July 2012 to date: numerous CSM hazid/Hazop assessments supported by a

# CASE STUDY

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safety risk assessment to support AsBo approval

- A number of fast tracked projects
- Jan 2013 to May 2015 : London Overground Capacity Improvement Programme
- Oct 2012 to May 2015: Great Northern Great Eastern Capacity Relief
- Dec 2014 to Date: Construction of Ilkeston Station
- Jan 2013 to Date: Level Crossing Renewals
- Aug 2013 to Date : ENIF Safety Engineering (ETCS/ERTMS)
- Aug 2014 to date : Network Rail Crossrail works
- Dec 2014 to Date : Anglia Route MC-BOD
- July 2014 to Date: ERTMS Western route TPWS effectiveness

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the trading name of AMCL  
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Registered in the UK,  
Number: 04440268.