



Risk Management - Transport

The UK's railway network is the largest system in the country and, for historical and legacy reasons, can be regarded as a System of Systems with all its attendant risks.

SEA was involved with Network Rail on the complete upgrade to the West Coast Main Line, known as the Train Control System project.

Processes supplied by SEA included risk management; safety management; engineering process development; requirements engineering; human factors integration; interfaces; integration and acceptance planning. A specific task was the West Coast Main Line Train Control System Concept Simulator, which models the functional operation and inter-operation of key components of the TCS system architecture and the external systems to which the TCS interfaces. The components are modelled using software-based simulations hosted on networked PCs. The simulator is used by the TCS Design and Development team to undertake functional evaluation and validation of emergent system architectures and designs. It assists in the achievement of optimum designs and enables system constraints to be explored and defined.