

ELBowTie

Data alone is not the answer, the added value coming from how you analyse and what you do with these data is the key.

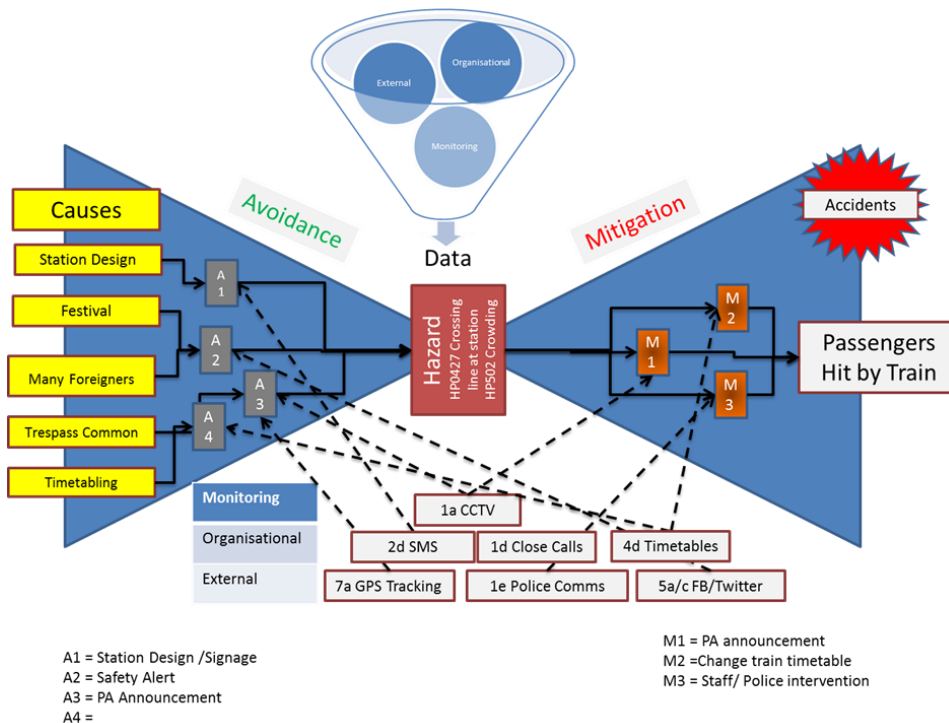
The Use of the ELBow Tie provides a formal means of allocating data to causes, consequences and risk mitigation measures set within an enterprise data analytical framework.

ELBow Tie is built around the well-known Bow Tie risk assessment methodology and has been designed to incorporate BD into the risk assessment activities.

The Bow-Tie analysis has been enhanced through linking relevant Enterprise Data Taxonomy (EDT) sources to each of the elements of the Bow Tie. These data sources include, for example, condition monitoring, social media, and safety management.

The concept of Big Data (BD) and associated analytics was not on the map ten years ago but now it looks like it will be revolutionary for the rail industry.

There is a real opportunity to integrate BD within railway safety risk assessment activities, giving timely and relevant information to support intelligent design decisions and ensure risk assessments are fully integrated into the business model for the rail-



ELBowTie Features

- The top of the diagram (i.e. the main Bow-Tie) details the available EDT for this analysis
- The bottom of the diagram contains those data items from the EDT that can be Linked (i.e. that could potentially be used in some form of analysis) to the Bow-Tie components such as, threat, controls, outcomes and the recovery measures.