



INCOSE UK Chapter Rail Interest Group



How can we use data to add value in rail and put passengers first?

Larry Fawkner, Cogitare



Wednesday, 24th June, Webinar
8PM – 9PM Presentation

The rail industry talks a lot about data. A lot is collected but little is used. Why? What do we need to do with data to make it useful?

Larry Fawkner will propose that the value of data depends on a whole system approach to transform data into useful information to improve and understand whole system impacts. Data must provide easy, useful decision support to users and analysts to help improve planning, operations, enhancements, and asset management.

Larry will talk about “Trainserv” a software application which integrates data from different sources to produce useful information to understand the whole system. Data includes the train black box, GPS, signalling, timetabling and infrastructure - passengers are currently being added. Larry will also cover how the industry will use the outputs – from improving timetables to automating driver competence assessment.



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The future involves plans to measure the train service and performance in terms of the impact on passengers, critical to a whole system understanding. He will argue that people respond to what is measured. If you measure PPM (Public Performance Measure) which measures train punctuality at termini, you put PPM first. If you measure the impact on passengers, you put passengers first.

Larry Fawkner, from Cogitare, a specialised rail software house, has “whole system” experience having worked in the rail industry as a Transport Economist, a Planner, a Systems Engineer and more recently specifying requirements for specialist rail software. He has led the “Trainserv” Development over the last 6 years and is also the technical specialist advising the current RSSB Value of Data Study.

The meeting will be presented as a Webinar on Team Meeting. To receive an invite, please send Mike Morua an email at moruadunn@gmail.com requesting an invite.

The International Council on Systems Engineering (INCOSE) is an international professional society for systems engineers whose mission is to foster the definition, understanding, and practice of world-class systems engineering in industry, academia, and government

The INCOSE UK Rail Interest Group has been formed:

- *To provide a forum for those interested in Systems Engineering in rail to network in a less formal environment, to exchange good practice and to provide mutual support in an area which can require some sustained perseverance;*
- *To promote, improve and share the practice of Systems Engineering within the rail industry;*
- *To foster connections with other professional bodies within rail and thereby promote cross fertilisation of knowledge and experience across sectors and community disciplines; and*
- *To promote awareness of INCOSE UK and encourage membership within the rail industry.*

For further information about the RIG, see www.incoseonline.org.uk and follow the ‘Groups’ link.