



INCOSE UK Chapter Rail Interest Group



Pushing the boundaries – An overview of the challenges and approach to systems integration for HS2



Nassar Majothi, HS2 Head of Systems Integration

Tuesday, 24th November 2020, Webinar
2PM – 3PM UK Time (9AM EST)

HS2 is a state-of-the-art, high-speed line critical for the UK's low carbon transport future. It will provide much-needed rail capacity across the country, and is integral to rail projects in the North and Midlands – helping rebalance the UK economy. Phase 1 of HS2 from London to Birmingham is now underway and moving into the delivery phase of all aspects of the programme, ambitious in its scale and a truly complex undertaking, a comprehensive systems integration approach is needed to be successful. Focusing on the upfront stages of specifying the railway as a system, this talk will explore the challenges that HS2 faces and give an overview of the strategy, process and organisational aspects of embedding systems integration thinking into delivery. We will conclude by looking at the longer term horizons for systems integration on HS2, how it needs to be developed and innovated, and how it will be implemented throughout the programme with the supply chain working towards delivering the first passenger services.

Nassar Majothi, HS2 Head of Systems Integration

Nassar has a passion for practical systems thinking which he makes every day use of in business, engineering and programme delivery. In his role as a leader and mentor he encourages individuals and teams to use the systems approach to achieve success in dealing with complex challenges. Focused primarily on the rail and transportation domain he has spent his entire career working on major programmes in positions ranging from on-site construction to strategic roles with government and he is currently the Head of Systems Integration for High Speed 2. Nassar is a chartered mechanical engineer, his career began working for Atkins in design engineering from which he moved on to



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specialise in systems engineering and integration. He later progressed to roles in project and programme management and latterly business leadership where he was until recently a Director and Executive Leadership Team member at WSP.

The meeting will be presented as a Webinar on Team Meeting. To receive an invite, please send Mike Morua an email at michael.morua@altran.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.