



Report on Resilience First - Intel Webinar 20 July

‘Keeping the nation moving – The rail industry’s response to Coronavirus’

Speakers:

David Clarke, Technical Director, Railway Industry Association
Christian Marez, Senior Business Development Manager EMEA, ADLink
Dr Spincer Koh, CEO, Gorilla Technology
Daren Wood, Vision Director, Resonate

Chair:

Ellie Wood, Account Executive for Transportation, Intel

Key Messages

- The rail sector has been devastated like many others by the Covid-19 pandemic but cutting-edge technology can help to get it moving again by providing tools to manage the risk and increase public confidence.
- UK Government support has allowed the industry to keep up the service although with a reduced timetable. There has been a collapse in passenger demand down 96% at the peak and still down 87% with £900m a month in lost revenue. However, the government has declared that it is safe to travel by train and has encouraged a return to work.
- The industry has identified rebuilding public confidence as the key to increasing passenger numbers and revenue post-lockdown but there are many public-safety issues that need to be addressed to do this. Cutting-edge AI technology can make this huge challenge much easier by automating tasks such as monitoring face-mask wearing, managing passenger density and contact tracing.
- Other areas of focus include increasing productivity, accelerating plans for open data, flexible ticketing, decarbonisation and digitalisation, and increasing the emphasis on bio-security in R&D programmes. Technology is already being used for passenger information, automated fare collection, hazard detection, video security and surveillance using facial recognition.
- AI can enable the use of data from trackside, timetables and train movements to improve train operating performance significantly. Designing for resilience must involve continual, incremental evolution and making the data available consistently.

The speakers answered a series of questions from the participating audience.

Please find a copy of the presentation slides by clicking [here](#).

The full video recording can be found [here](#).

Contacts:

Railway Industry Association: www.riagb.org.uk

ADLink: www.adlinktech.com

Gorilla Technology: www.gorilla-technology.com

Resonate: www.resonate.tech

Speakers' Biographies

David Clarke



David Clarke is a Chartered Engineer and a Fellow of the Institution of Civil Engineers with over 30 years' rail industry experience. In his role at RIA, the trade association for the UK railway supply industry, he represents members interests in the important areas of safety, technical standards, technical strategy, research and innovation.

Prior to joining the Rail Industry Association, he was the Innovation Director at the Rail Safety and Standards Board where he was responsible for the cross-industry Future Railway Programme which was helping to deliver the Rail Technical Strategy.

His earlier career includes being Deputy Director, Rail Technical at the Department for Transport, prior to which he was a Director for two of the major rail infrastructure contractors having started his career with British Rail. He has been responsible for large operational and project delivery teams, securing major contracts, corporate strategy and business development and, more recently, for technical strategy and innovation.

Christian Marez



Christian has spent 25 years in the electronic embedded market, fulfilling technical and direct sales/marketing responsibilities, including Country office management, for US and Taiwanese companies. Through all these years, he has accumulated profound experiences across railway transportation, power station networking and military/defense customer bases. He also, at several occasions, set up and developed the business for abroad companies with no presence and records in Europe.

Dr Spincer Koh



Dr Spincer Koh, being an expert in the high-tech industry for over 20 years, has led Gorilla Technology Group to become a renowned provider of edge AI video analytics, big data content workflow, robust network security, and other innovative in-house software technology and professional services. Dr Koh has successfully built strong relationships across a range of industries and continues to drive intelligent and actionable solutions that enable clients to improve operational performance.

Darren Wood



Most of Daren's career has involved applying technology to solve operational challenges. Currently, he is responsible for the product and technology strategy at Resonate where we are providing solutions that improve the delivery of services to rail customers.

Ellie Wood



Ellie Wood has over 30 years of experience in helping customers to understand their business challenges, to help find innovative solutions to drive change, reduce complexity, while driving value and cost savings, whilst always looking to improve customer experience and driving growth.