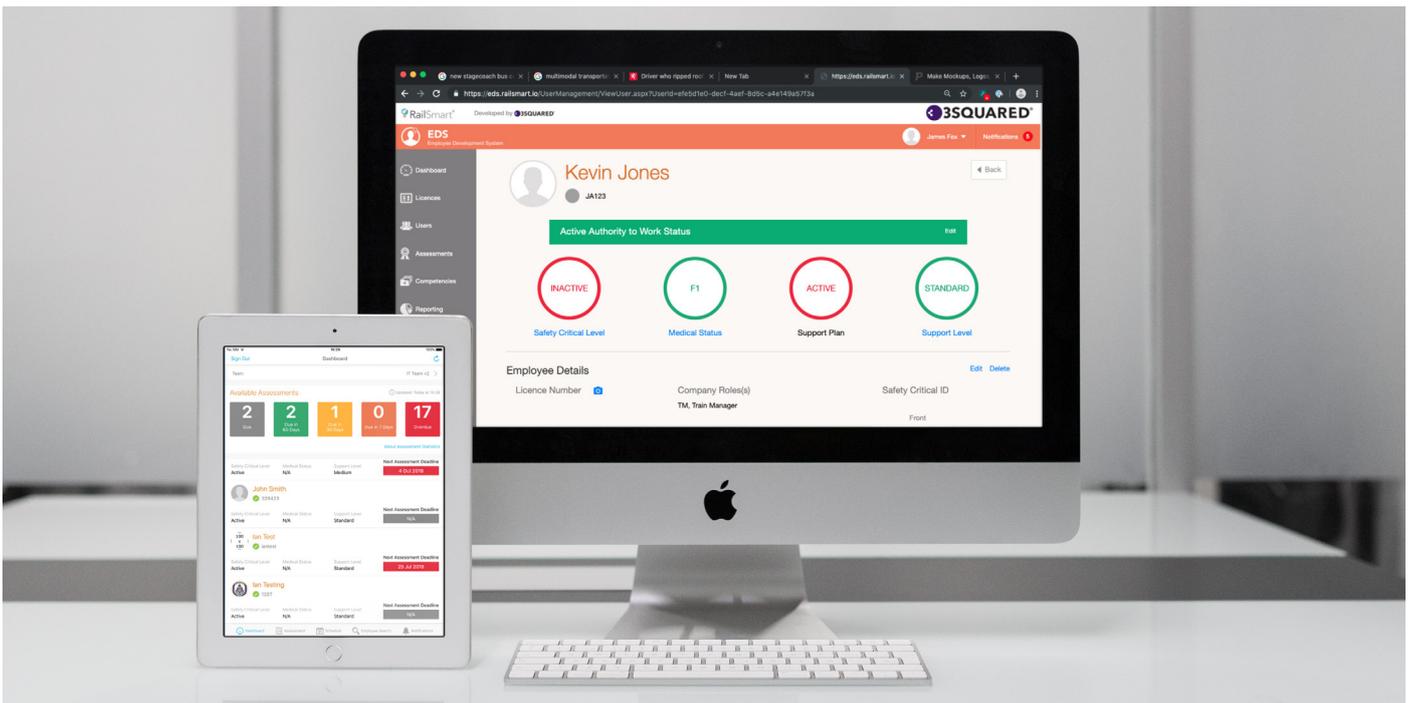


3SQUARED®

Driving the Rail Industry Forward through Innovation



We have seen far more innovation over the past five years within the rail industry than ever before.

From smart ticketing, to digitalisation, to electrification, there has been a significant step-change in the adoption and integration of technology across the sector, and this shows no signs of abating any time soon.

Unsurprisingly, there is clear potential for more. As we shift our focus to 2023, we naturally lean in to exploring what the year ahead can provide in terms of new innovations and technologies, which will drive the industry forward.

Here at 3Squared, we are proud to have played our part in delivering game-changing technological solutions

throughout the past twenty years. However, we don't like standing still and look forward to introducing even more, this year and beyond. So, what needs to be done to create a greener, technologically-enabled railway fit for the future?

Creating a Digitally-Enabled Network

We only need to look at history to see how new ideas and innovations come to life. For example, in the first quarter of the 20th century, the 'Big Four' emerged – a term used to describe the four largest UK railway companies (Great Western Railway; London, Midland and Scottish Railway; London and North Eastern Railway; and Southern Railway).

Formed as a result of the Railways Act 1921, the companies were founded to rejuvenate the UK's rail

network at a critical time, when freight and long-distance passenger traffic was a necessity. The Big Four supported the country and helped bring it back to life – they got everything moving in a way not too dissimilar to what we are experiencing now as we emerge from the pandemic and understand passengers’ evolving demands.

What should remain of utmost importance for the industry, and what we pride ourselves on at 3Squared, is the desire for change and making a positive difference. This remains a key ethos within our business and flows through every design decision we make and through every product we create.

Delivering Solutions that Make a Change for the Future, Today

3Squared has been hard at work implementing improvements in response to clients’ constantly evolving needs. We are rolling out a number of changes this year which support the evolution of a more innovative rail network.

Even More Effective Competency Management with EDS

We recently set up a focus group to see how we could further tailor our market-leading competency management system (EDS) to suit users’ evolving requirements. New features are now being added as a result of the feedback, and we are also enhancing existing ones.

Improvements to EDS include the ability for each client to create their own unique incident categories, making the system flexible and completely customisable to their needs. In addition, we are, as a result of user feedback, developing a set of predefined assessment templates. They enable quick selection of a templated assessment with an associated set of competencies for a particular scenario. These will better support rail employees who need to plan a series of assessments, or when assessment needs change quickly. To enhance the user experience even further, we have developed a brand-new interface, with a focus on improving ease of use, that will roll out later this year.

We are working hard to give EDS users better data

analysis capabilities, so they can quantify progress and get the most out of the software to help them drive better interventions. Customers will be able to design their own dashboards and access reporting tools within EDS to evaluate factors that are pertinent to an employee’s job role and performance.

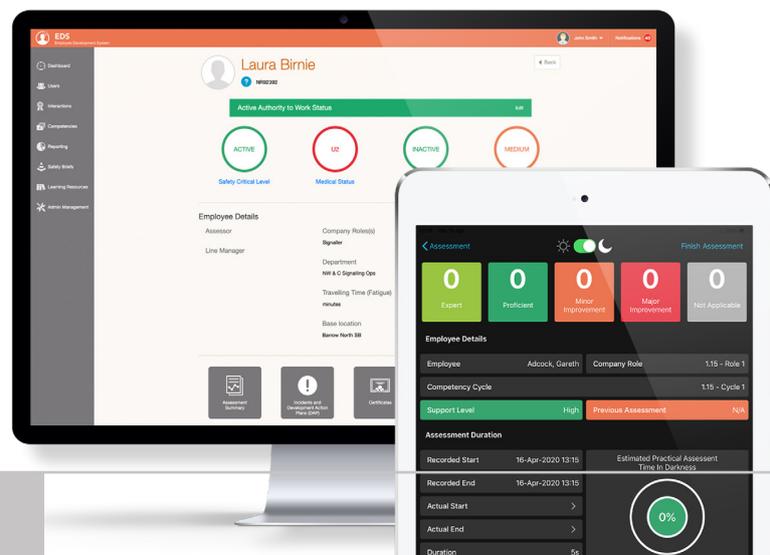
Unlocking Hidden Capacity in the Network for Freight Access

Our ground-breaking PathPlanner solution is set to play a key role for our freight clients in 2023. We are developing a system which allows operators to find empty paths on the network, allowing freight customers to consider running trains along paths that were previously hidden, unlocking latent, spare capacity on the network. The tool is designed to help overcome capacity challenges, enabling freight services to run more flexibly and efficiently.

Looking Ahead

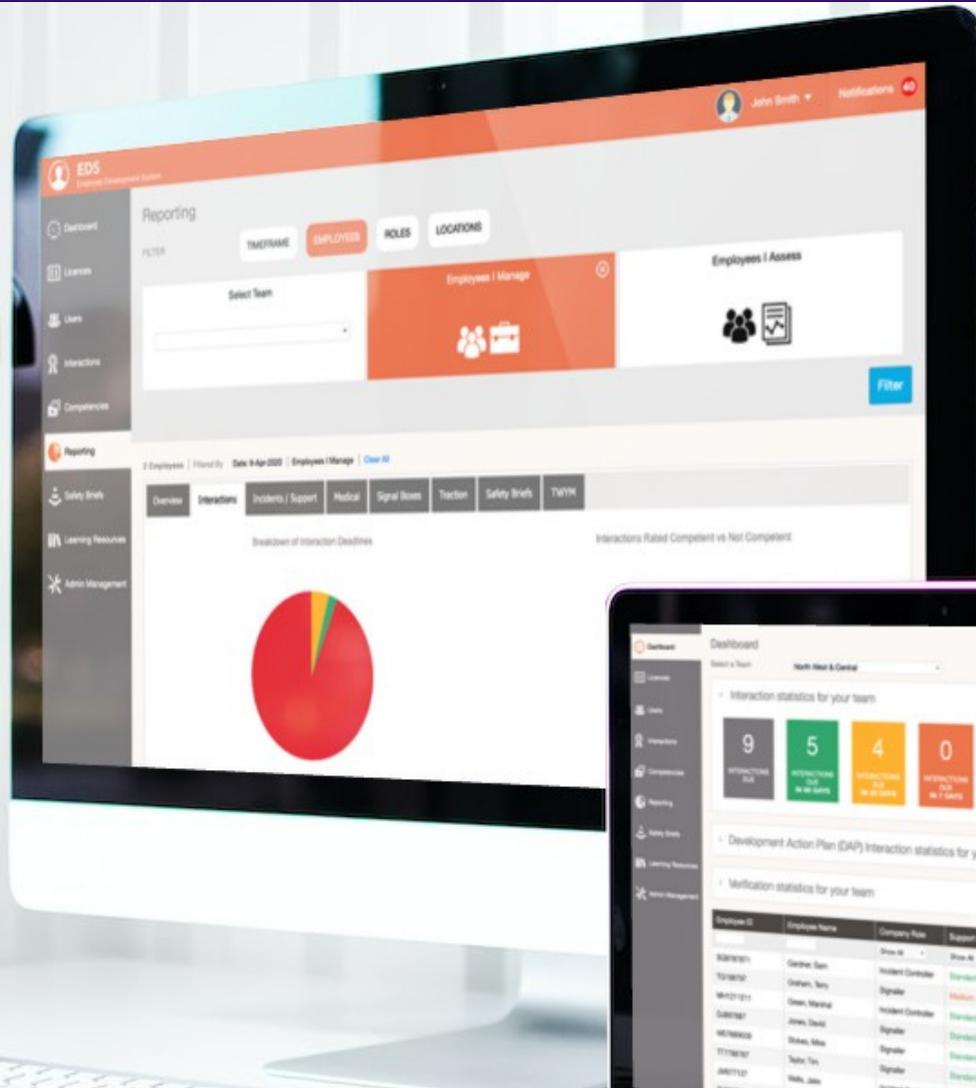
Developing new innovative technology is critical to fostering a greener, digital railway of the future. The beginning of the new year presents a prime opportunity to generate new, innovative ways of working and technologies. We look forward to continuing to play a vital part in this in 2023.

For more information on 3Squared and how they can support you with digital transformation, please visit 3squared.com or contact jason.durk@3squared.com.





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