## GODAL ALL SEPTEMBER 2025 GLOBALRAILWAYREVIEW.COM

## Empowering railway operators with technology:

fostering a Knowledge Corridor between Europe and India

Europe's mega-projects unite to champion unified rail investment Navigating the UK Spending Review against the global legislative landscape How AI staff scheduling is revolutionising rail freight planning



partner for rail companies that want to make their processes sustainable and future-proof.

JULIAN BODE

Julian Bode works as a Marketing Manager at ZEDA5 GmbH, where he is responsible for developing and implementing creative communication strategies across many channels, including social media. He studied Business Administration with a focus on corporate development, market structures, marketing, and innovation.

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planning support that not only saves time but also improves operational quality and productivity.

## Smooth scheduling for a rail operator

The idea for the feature emerged from practical requirements identified in close cooperation with a customer. The objective: to smooth out weekly working hours, increase capacity utilisation and drastically reduce planning time. To ochieve this, the knowledge gained from experience in scheduling was incorporated and translated into formalised rules together with the technical managers and the ZEDAS team.

A central element was the translation of what had previously only existed "in the heads" of individual employees into a rule-based, automatically verifiable structure. This transfer of implicit knowledge into a transparent, documented logic represents enormous added value for companies.

## Effects and prospects

The feature is in final testing. Initial feedback from demonstrations and discussions at trade fairs has shown great interest. Previously manual processes are now automated; schedules and duty travels are generated within seconds. A time reduction of over 90% is considered realistic. In the long term, companies expect more balanced working hours, greater productivity and a simplified planning process.

Further development is already underway: the optimiser will soon respond to unforeseen events. Users will be able to define how existing tours are handled: Retain all tours: Existing plans will be respected, new classifications will be added.

Retain specific tour types: E.g. training courses that are tied to specific employees.

Discard all tours: The optimiser plans from scratch and uses maximum degrees of freedom.

In the future, it should also be possible to specifically mark individual employees, for example,