

FICTIONAL RAILWAY SCENARIO

STREAMLINING RAILWAY OPERATIONS AND CREW WELL-BEING

Company: A railway operator in Eastern Europe.

Size: About ~700 personnel, including train drivers, conductors, and maintenance staff.



PROBLEM

- The railway network faced operational challenges due to unpredictable weather conditions, mechanical breakdowns, and other sudden occurrences that could cause significant delays.
- The scheduling system at the time failed to incorporate essential factors such as rest periods, posing a risk to both safety and performance.
- This system also struggled with effectively managing crew rosters, leading to issues with overtime and the risk of staff burnout. It was crucial to ensure the full utilisation of all staff, avoiding underuse. The key challenge lay in optimally deploying the workforce to achieve operational cost-efficiency, maintain high service standards, and ensure staff satisfaction.



SOLUTION

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SOLUTION

To address those challenges, the railway operator deployed SkyRoster. Here's how SkyRoster provided solutions:

- With SkyRoster, the railway operator gained the ability to make real-time adjustments to crew schedules in response to unexpected disruptions. This capability significantly reduced service delays and facilitated efficient communication of schedule changes to the crew.
- SkyRoster's AI-based optimisation algorithms were used to factor in necessary rest periods and manage work hours, substantially reducing the risk of crew fatigue. This approach not only improved safety but also enhanced overall crew performance.
- By leveraging SkyRoster, the operator was able to reduce unnecessary overtime costs and improve the allocation of personnel. Predictive analytics allowed for more accurate forecasting of staffing needs, leading to better alignment of schedules with actual demand.



RESULTS

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RESULTS

- The implementation of SkyRoster resulted in a 35% decrease in operational disruptions due to enhanced adaptability in scheduling.
- The focus on fatigue management led to a 40% reduction in incidents related to crew fatigue, fostering a safer work environment.
- The strategic use of SkyRoster enabled the railway operator to achieve a 25% reduction in overtime expenses, translating to significant monthly savings and more satisfied personnel.



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