

SmartVision Empowers Queensland Rail to Optimise Maintenance Processes and Improve Reliability

Image: "QR tilt train at Bowen Hills" by Byrd250k used under [CC BY 4.0](#)

CHALLENGE

Queensland Rail, a leading railway operator in Queensland, Australia, sought a solution to streamline their maintenance processes, improve response times, and optimise equipment reliability. They needed a comprehensive system that could provide real-time remote diagnostics and enable efficient condition monitoring of their on-track equipment.

SOLUTION

EKE-Electronics introduced SmartVision, an advanced on-train monitoring system coupled with a user-friendly interface. The SmartVision solution allowed Queensland Rail to remotely review the status of the trains, view their Captain's displays and inspect analogue signals collected in their trains. Additionally, the system facilitated the live uploading of analogue and digital signal data through the Captain's Display and Webtip, providing crucial insights for maintenance planning and reliability assessment.

BENEFITS

ENHANCED MAINTENANCE PLANNING

SmartVision's data analysis capabilities empowered Queensland Rail to proactively plan maintenance activities based on real-time condition monitoring, reducing the occurrence of unexpected breakdowns and optimising maintenance schedules.

IMPROVED RELIABILITY

By leveraging the insights provided by SmartVision, Queensland Rail was able to identify and address reliability concerns promptly, ensuring a smooth and uninterrupted service for passengers.

COST SAVINGS

The ability to condition monitor equipment through live data has resulted in significant cost savings for Queensland Rail. SmartVision provided a cost-effective solution to remotely diagnose and address maintenance issues, minimising the need for physical interventions.

CONCLUSION

The successful partnership between EKE-Electronics and Queensland Rail demonstrates the transformative power of SmartVision in the railway industry. By leveraging real-time remote diagnostics, condition monitoring, and advanced data analysis, Queensland Rail was able to optimise maintenance processes, improve reliability, and deliver a world-class service to their passengers.

AT A GLANCE

CHALLENGES

- Streamline maintenance processes
- Improve response times
- Optimise equipment reliability

BENEFITS

- Enhanced maintenance planning
- Improved reliability
- Cost savings



"SmartVision has given the maintenance team the ability to condition monitor equipment operating on-track through live uploading of analogue and digital signal data. The analysis tab provides the fundamentals required for maintenance planning by determining reliability concerns so that we can continue to provide a world-class service for passengers."

Todd Dixon

Queensland Rail's Reliability Improvement Manager

FOR MORE INFORMATION



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