

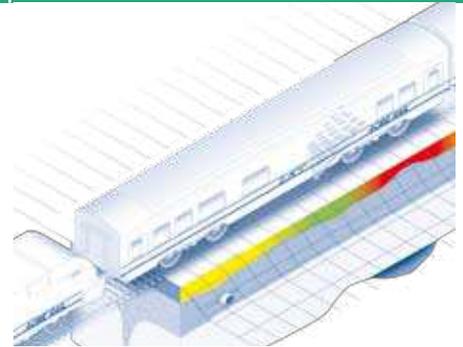
ZARR

Zetica Advanced Rail Radar

TRACKBED SCANNING CUSTOMISED TO MEET YOUR NEEDS

Zetica Rail offers turnkey solutions for implementing ground penetrating radar (GPR) on train-based and other vehicle platforms. ZARR provides you with the tools for early detection of hidden problems and offers the following major benefits:

- ▶ Automatic ranking of ballast fouling and subgrade erosion
- ▶ Automatic exception reporting on user-defined trackbed quality thresholds
- ▶ Accurate mapping of the extent of trackbed maintenance or renewals required
- ▶ The ability to monitor trackbed deterioration over time
- ▶ Reduction in the number of trial holes required to investigate a site
- ▶ Verification of the quality of renewals work carried out
- ▶ Major efficiencies and cost savings compared with existing trackbed evaluation methods
- ▶ Reduction of risk to track investigation staff working near operating trains
- ▶ Reduction in temporary speed restrictions due to subsurface problems affecting the integrity of operations.



THE FOLLOWING OPTIONS ARE AVAILABLE:

1. **Full service option:** Zetica Rail collects and processes data and delivers final results.
2. **Assisted service option:** Zetica Rail provides a consultancy service to design and fit a ZARR system to your rail vehicle and a data processing service to deliver results.
3. **Full ownership option:** Zetica Rail provide a consultancy service to fit ZARR to your rail vehicle and customised software with training to allow independent operation of the system.

