

# TrackDNA

DT Infrastructure's rail data analytics solution, TrackDNA, is the first step in the journey to predictive maintenance. Combining data and our smart analytics platform, it enables data-driven decision making to improve efficiencies in infrastructure maintenance.

At DT Infrastructure (DTI), we are leading the way with innovation and thought leadership. We develop pioneering solutions that embrace new technology and ways of working to drive improvements across our business for our clients.

TrackDNA captures data, applies analytics and provides visualisation of the health of assets. Our cutting-edge technology boosts DTI's asset management capability, providing data for decision making and improving efficiencies in the maintenance of infrastructure assets.

## Data-driven maintenance decisions

Using proven software tools, TrackDNA intelligently integrates historical datasets and information from multiple asset classes enabling faster and better decision making.

## Increased efficiency

By proactively monitoring assets and establishing trends, the solution is designed to reduce asset downtime, increase availability and minimise maintenance costs.

## User-centric design

Designed with a simple and intuitive interface, TrackDNA provides structured output of information based on business rules, allowing users to easily generate reports and view alerts on demand.

## Versatile application

TrackDNA has been designed and commissioned on the Warrnambool Line in Victoria. This solution can be applied across multiple asset types.

### InControl™

InControl is a fully integrated train control system designed to manage rail traffic efficiently across the network. It supports multiple operator workstations with flexible control areas at both the Control Centre and Backup Control Centre. The system includes advanced features such as entrance/exit and extended route setting, route storage, train describer, alarm display and logging, and independent replay functionality to support the investigation of operational incidents.

### InSupport™

InSupport is a fully integrated maintenance support system built to aggregate real time asset condition data from signalling trackside assets along the rail corridor. Supporting maintenance decisions and ongoing asset management, InSupport provides monitoring for the full range of signalling equipment.



TrackDNA optimises existing asset data to automate inspections, predict pending failures and prioritise asset maintenance. It increases availability by proactively predicting failures and reducing unscheduled downtimes. It also derives insights and establishes trends, and reduces costs maintenance through improved efficiencies.

### **Warrnambool Line Upgrade project**

The Warrnambool Line Upgrade project involved performing major track, civil and signalling activities along the Waurm Ponds to Warrnambool corridor in Victoria.

A key part of the scope was to replace the existing paper-based train order system with a new three position signalling and centralised train control system. DTI has commissioned various modules of the TrackDNA suite of products as part of the solution for this corridor, including InControl and InSupport.

