



MAINTENANCE MANAGEMENT

FUTURE READY - DATA DRIVEN - DIGITAL MAINTENANCE

DIGITAL MAINTENANCE THAT CREATES VALUE

The **Maintenance Management Module** of Downer's TrainDNA product suite is a digitised change for asset maintainers and asset owners. Bringing smarts to innovate and automate maintenance management.

Developed over 15 years from deep industry experience and engineering expertise, this module combines consulting skills and the benefits of industry leading applications to optimise your maintenance management.

Accelerate the move to a digital world and keep pace with the growing and changing travel demands. This module is designed specifically to increase train availability, reliability and safety while reducing operational cost through digital maintenance practices.

BENEFITS

Lower costs and enhanced efficiency across all maintenance activities and related workforce planning:

- Reducing supply chain costs.
- Reducing the cost of maintenance.
- Providing the right maintenance at the right time.
- Minimising time out-of-service.
- Optimising workforce utilisation.



Provided a **51%** improvement in fleet reliability



Enabled a **2 fold** extension in the routine periodic maintenance interval



Enhanced efficiency in maintenance delivery allowing for a **21%** growth in fleet, with minimal increase in workforce requirements

To ensure an easy and successful adoption of the Maintenance Management Module, Downer offers consulting services and step change implementation services typically after the provisioning of selected SOROS module applications.



WHAT IS TrainDNA?

A full suite of rail and transit system asset management services, designed to provide class leading performance and improve passenger outcomes. Upgrade to next generation, asset management technology and provide the industry's most **reliable, available and efficiently** run trains. **TrainDNA takes you on a transformational journey to a digitalised and improved maintenance management system.**

OUR CONSULTATION SERVICE

Leveraging 150+ years of experience, Downer's has a deep knowledge, expertise and best practice approach for maintenance management. Through the provision of consulting services, customers can receive guidance and support with implementing the process changes required for successful digital maintenance management of rollingstock assets.

Our approach is simple. Start with an initial assessment, then identify the priority areas for improvement and implement step changes to enhance maintenance management.

These areas may include:

- Optimising maintenance plans.
- Implementing condition-based maintenance.
- Leveraging data-driven insights from analytics.
- EAM configuration and data modelling.
- Adopting one or more of the associated SOROS modules such as SPA or TrainTrax.



THE MODULES

Flexible, scalable and agile, TrainDNA is comprised of five standalone and inter-operable modules. Reap the benefits of one module, or add and combine multiple modules at any stage of operational maturity. The data, capability and knowledge of each module is proven to shape successful business decisions and improvements.



Maintenance Management

Asset management, maintenance activities and the related workforce planning.



Operational Intelligence

Real-time data, integrated from many sources (trains, maintenance facilities, operators).



Asset Intelligence and Analytics

The process of analysing data and producing insights and findings.



Robotics and Automation

Remove manual tasks that are prone to human error, difficult to perform and time consuming to complete.



Sustainability

Optimising real-time power consumption, work practices and track sustainability benefits.



MAINTENANCE MANAGEMENT

THE APPS

SOROS

An industry leading, cloud based SaaS platform that improves co-ordination between operations and maintenance, SOROS is an industry leading maintenance and operations management system, available today.

With a visually appealing user interface, SOROS increases train availability, reliability and reduces the cost of maintenance. Gain fingertip access to critical operational fleet level data.

Soros is made up of many modules with the core maintenance management modules being SPA and TrainTrax.

OTHER MODULES INCLUDE:

- Safety.
- Communications.
- Engineering.

FEATURES

- Integrates with existing asset management systems via bespoke two-way integrations.
- Fast implementation with minimal training.
- Presents data concisely via a user-friendly web-based interface.
- Mobile first, cloud-based access.
- Specifically designed for the rail industry.



SOROS

CUSTOMER WORKFORCE REQUIREMENTS

Pre-SOROS = **1,920 FTE**

Post-SOROS = **1,485 FTE**

45% of savings across FTE and man-hour overheads reduced.



South Eastern Trains UK saved 41% of maintenance expense.

Downer TrainDNA provides excellent visibility for train maintenance opportunities in the context of the daily railway operation. It gives the Maintainer and Operator greater insights into the potential implications of day-to-day decisions, enabling efficient synchronisation and delivering synergies.

- Rob Clayton, Director, IPEX Global Rail Experts

SET PLANNING & ANALYSIS (SPA)

Set Planning and Analysis (SPA) provides comprehensive forward planning of all maintenance activities, allowing you to respond to the demands of your network. SPA helps you make data-driven decisions, streamline maintenance schedules and maximize resource efficiency so to maximize fleet availability to the operator and maximize resource efficiency.

BENEFITS

- Minimizes time a train is in for maintenance.
- Increases overall train availability.
- Helps deliver against your KPI regime.
- Improves fleet reliability.

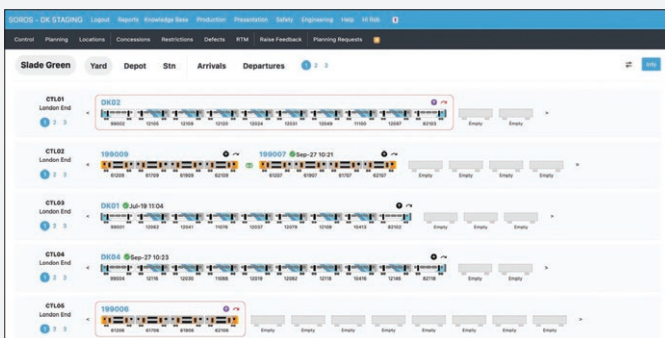
TrainTrax

TrainTRAX

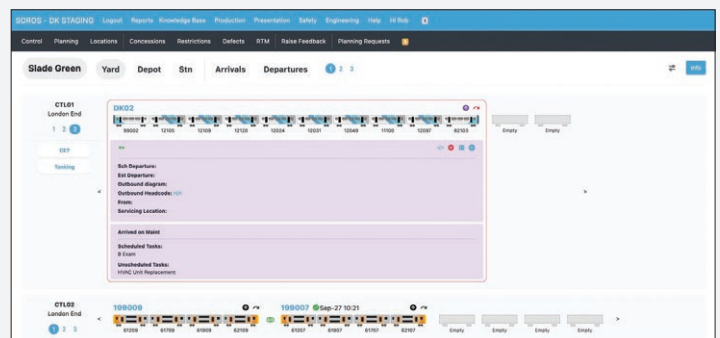
TrainTrax is a visual, user-friendly depot management application showing what trains are where and what is happening on each train while in the depot. Views drill down from site level to yard level and to road level, showing what maintenance work is scheduled, in progress and completed with planned movements.

BENEFITS

- Provides a digital single source of truth of all trains, works and movements in the depot.
- Real-time view of the fleet serviceability status.



TrainTrax: showing what trains are in what roads in the stabling yard.



TrainTrax: showing the run in and run out information, what diagram/run the train is allocated to and any maintenance work that is planned and if its in maintenance.

Talk to one of our TrainDNA specialists and find out more about our modular approach.

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