Welcome Aboard

RTS Digital
by **Downer**

The new evolution in digital across rollingstock asset management.

Enabling communities to thrive

Downer is the leading provider of integrated infrastructure services across Australia and New Zealand.

We are committed to building strong relationships with our customers, people, and communities.

Together, we enable communities to thrive, shaping a connected and sustainable future.

With 31,000 employees, our footprint covers every corner of Australia and New Zealand.

We operate across four sector-focused, trans-Tasman business units, leveraging our technical capability to ensure our customers' success.

31,000 employees

Operating in **250+** locations

$12.6 billion revenue in FY2023

A network of **25,000** suppliers and subcontractor partners

Australia's leading provider of rail and transit systems

Downer's Rail and Transit Systems is the leading rail business in Australia, with expertise in delivering whole-of-life asset management support to our customers.

We have over 150 years' rail experience delivering innovative transport solutions.

Today, we leverage our capabilities to offer rollingstock, infrastructure, rail systems, operation and maintenance, system integration, engineering innovations and digital and data solutions.

15+ sites
depots & facilities operated

880+ million
annual passenger journeys

13.5+ million
people serviced

150+ years
experience

2,000+
cars maintained
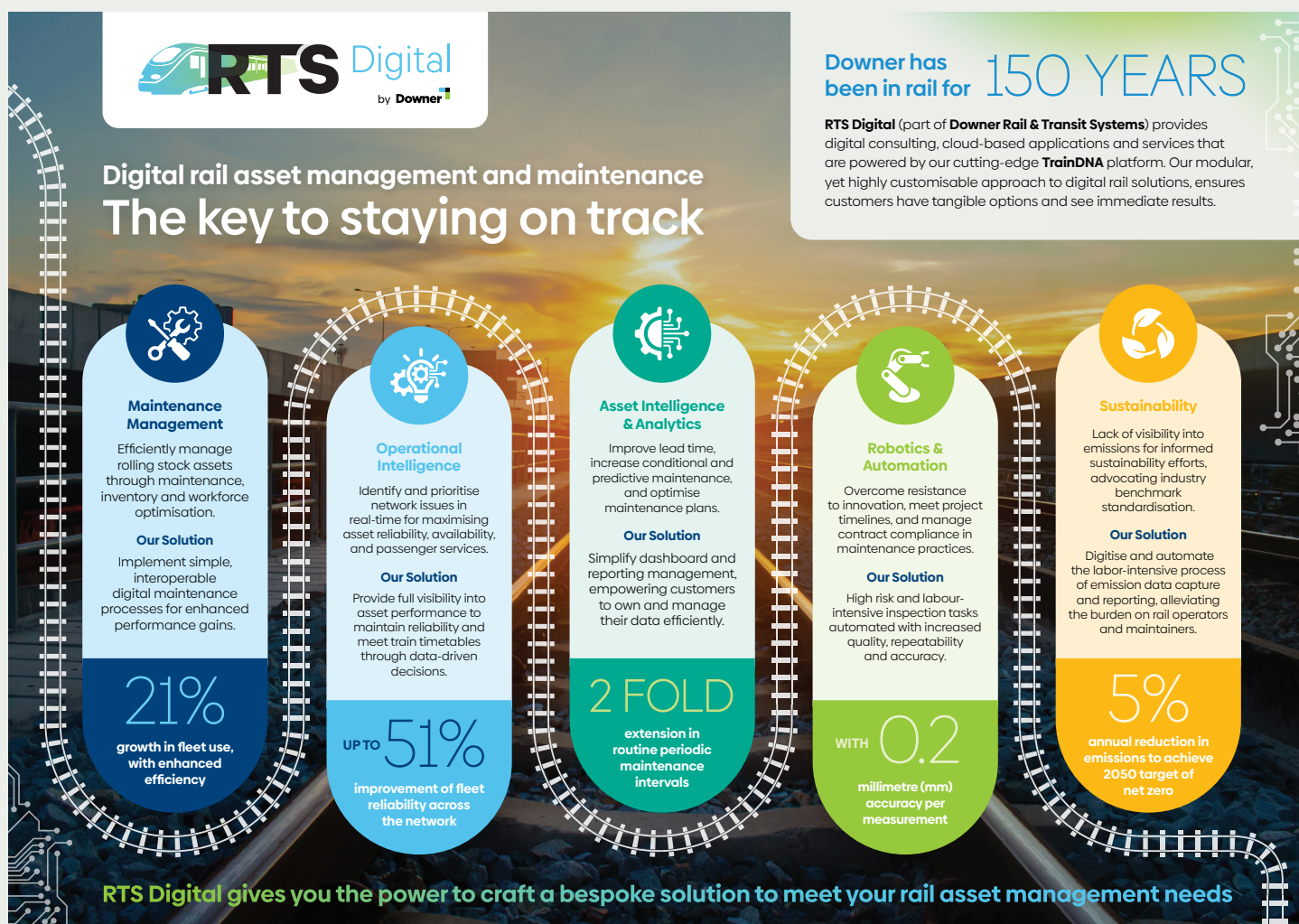
3,000+
cars built

3000+
cars overhauled

Welcome Aboard RTS Digital

RTS Digital is Downer Rail and Transit Systems' digital consulting, software, and services business, leveraging over 15 years of experience in technology and innovation.

Powered by our TrainDNA platform, RTS Digital takes a product-based approach to servicing customers globally.

Our SaaS based offerings, package capabilities and tools into modules addressing specific customer needs in rail, across Digital Maintenance, Operational and Asset Intelligence, Robotics and Sustainability. Refer to the image below.

Enabling digital and data driven insights, customer outcomes and value is delivered in weeks instead of months.

RTS Digital
by Downer

Digital rail asset management and maintenance
The key to staying on track

Downer has been in rail for 150 YEARS

RTS Digital (part of **Downer Rail & Transit Systems**) provides digital consulting, cloud-based applications and services that are powered by our cutting-edge **TrainDNA** platform. Our modular, yet highly customisable approach to digital rail solutions, ensures customers have tangible options and see immediate results.

Maintenance Management

Efficiently manage rolling stock assets through maintenance, inventory and workforce optimisation.

Our Solution

Implement simple, interoperable digital maintenance processes for enhanced performance gains.

21%
growth in fleet use, with enhanced efficiency

Operational Intelligence

Identify and prioritise network issues in real-time for maximising asset reliability, availability, and passenger services.

Our Solution

Provide full visibility into asset performance to maintain reliability and meet train timetables through data-driven decisions.

UP TO **51%**
improvement of fleet reliability across the network

Asset Intelligence & Analytics

Improve lead time, increase conditional and predictive maintenance, and optimise maintenance plans.

Our Solution

Simplify dashboard and reporting management, empowering customers to own and manage their data efficiently.

2 FOLD
extension in routine periodic maintenance intervals

Robotics & Automation

Overcome resistance to innovation, meet project timelines, and manage contract compliance in maintenance practices.

Our Solution

High risk and labour-intensive inspection tasks automated with increased quality, repeatability and accuracy.

WITH **0.2**
millimetre (mm) accuracy per measurement

Sustainability

Lack of visibility into emissions for informed sustainability efforts, advocating industry benchmark standardisation.

Our Solution

Digitise and automate the labor-intensive process of emission data capture and reporting, alleviating the burden on rail operators and maintainers.

5%
annual reduction in emissions to achieve 2050 target of net zero

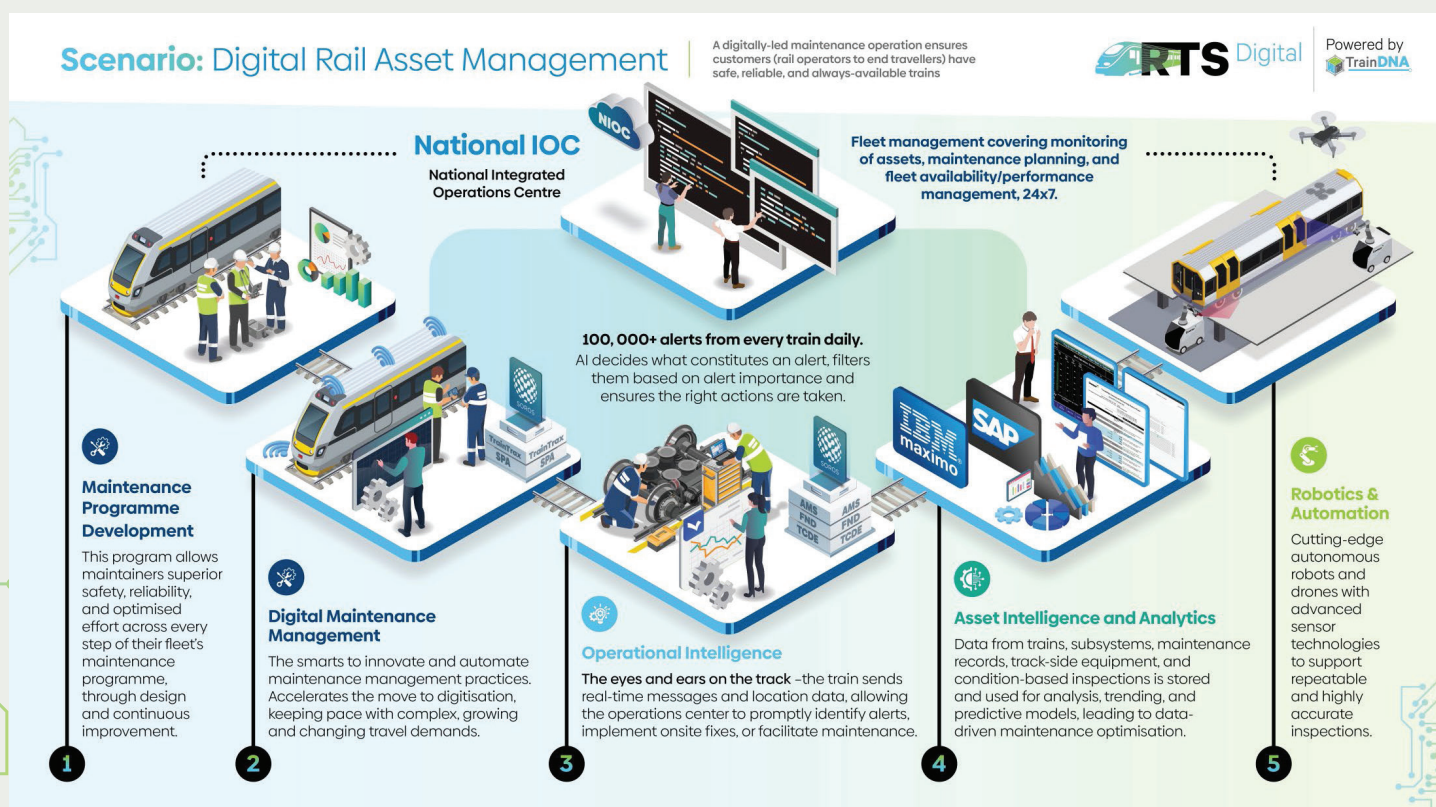**RTS Digital gives you the power to craft a bespoke solution to meet your rail asset management needs**

At RTS Digital, we focus on supporting rail-centric customers across varying maintenance and operational challenges – today and into the future.

Our Digital Rail Eco-system

Across the varying facets of rail maintenance and operations, advancements in technology are seeing the need and value to integrate and manage data well. As trains get more digitally enabled, data output significantly increases.

At RTS Digital, we have taken over 15 years digital rail experience to create a platform, known as TrainDNA, that supports a word leading digital rail asset management ecosystem; allowing rail asset maintainers and operators to provide class leading reliability and performance and improved passengers outcomes.

Scenario: Digital Rail Asset Management

A digitally-led maintenance operation ensures customers (rail operators to end travellers) have safe, reliable, and always-available trains

RTS Digital — Powered by TrainDNA

National IOC

National Integrated Operations Centre

Fleet management covering monitoring of assets, maintenance planning, and fleet availability/performance management, 24x7.

100, 000+ alerts from every train daily. AI decides what constitutes an alert, filters them based on alert importance and ensures the right actions are taken.

Maintenance Programme Development

This program allows maintainers superior safety, reliability, and optimised effort across every step of their fleet's maintenance programme, through design and continuous improvement.

Digital Maintenance Management

The smarts to innovate and automate maintenance management practices. Accelerates the move to digitisation, keeping pace with complex, growing and changing travel demands.

Operational Intelligence

The eyes and ears on the track –the train sends real-time messages and location data, allowing the operations center to promptly identify alerts, implement onsite fixes, or facilitate maintenance.

Asset Intelligence and Analytics

Data from trains, subsystems, maintenance records, track-side equipment, and condition-based inspections is stored and used for analysis, trending, and predictive models, leading to data-driven maintenance optimisation.

Robotics & Automation

Cutting-edge autonomous robots and drones with advanced sensor technologies to support repeatable and highly accurate inspections.

1   2   3   4   5

Our Strategic Partnerships

As Downer expands and takes RTS Digital's products and solutions into new markets, the importance of good partnerships is key. RTS Digital's strong partnerships are underpinned by innovative thought leadership, ensuring we match the right digital tool for the right job and customer.

In a digital-driven world, it is imperative to not just have a multitude of partners but to choose the right ones to drive value and provide a technical capability to support customer success. Through specialist and strategic partnerships, RTS Digital can utilise new technologies as they become available.

danburykline   **EKE**   **FMT**   **IBM**   **STRIDES**

Reference Library

If you are interested in any RTS Digital products or capabilities, please refer to the reference library below or click on the hyperlinks shown below.

Alternatively please feel free to reach out via email: RTSDigital@Downergroup.,com and the team will respond promptly.
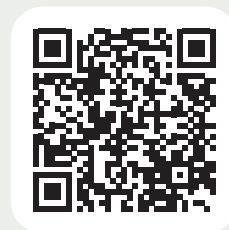
RTS Digital Landing page:

RTS Digital website:

Maintenance Management & Operational Intelligence Overview (video):

Robotics Overview (video):

What makes RTS Digital different (LinkedIn)

Downer

RTS Digital
by Downer

Powered by
TrainDNA