

# Rail Infrastructure Construction Projects

Not In Service



**OmTrak**





# How OmTrak Helps Rail Infrastructure Construction Projects?

**Streamline rail infrastructure construction projects through design, construction and maintenance. OmTrak's connected solutions provide access levels to the whole team. Produce quality building information, reduce project delays and save time and money.**

## **OmTrak Documents Module:**

A medium-sized rail infrastructure construction project, with a budget around \$100 million, can generate up to 20,000 documents. These documents range from initial feasibility studies, draft and final plans, to special details, instructions, and updated plans throughout the design and construction phases. OmTrak's Documents Module organises and streamlines this large volume of documentation.

- **Third party project server:** Project members have access to one platform in a secure environment.
- **Project centric:** Transmittals and storage are contained, so it's easy to search for documents.
- **Reduced Duplication:** If a consultant uploads a new file, they do it once and issue a transmittal email to all the parties who need a copy.
- **True collaboration process:** Built in review and mark up capability and workflows.

## **OmTrak O&M Manuals Module:**

The OmTrak O&M Manuals Module enables multiple subcontractors to individually create their O&M Manuals during the 'Build' phase of a station. Each O&M Manual is crafted following a client-specific template that aligns with the needs of rail infrastructure end-users. OmTrak O&M Manuals facilitate the streamlining and standardisation of information, promoting a seamless handover and a smooth transition to facility management (FM).

- **Reduce handover delays:** Subcontractors can upload documentation during the construction phase. Project managers can then review and ascertain if the information is complete and approve before handover, minimising project delays.
- **Digital Handover:** Digital O&M manuals are professional, user-friendly and searchable. Data outputs are fit for asset management systems, including attribute and validation requirements.
- **Built in workflows and approvals:** The module allows for online document preview and markup. It enables tracking the progress and status of content through chart reports. Users can also provide feedback, create tasks, and set due dates with an efficient content approval process.
- **Smooth Transition to FM:** OmTrak's O&M Manuals are designed for compatibility with a variety of FM systems, ensuring that rail infrastructure projects can transition smoothly to facility management.

**Minimise delays in rail infrastructure handover and seamlessly transition to facility management with OmTrak. OmTrak's approach to collecting building and asset information is designed to help meet statutory requirements. The high-quality and comprehensive information produced mitigates long-term risks associated with incomplete or substandard data. Asset details and O&M Manuals can be integrated into existing FM systems or managed using OmTrak's highly efficient facility maintenance tools.**

#### **OmTrak Site Works Module:**

The Site Works module simplifies defect management and maintenance for rail infrastructure projects. Its fully functional mobile app ensures teams have real-time access to data, even in areas without mobile coverage.

During the Defects Liability Period (DLP), the scheduled maintenance feature allows builders to demonstrate compliance effortlessly. Maintenance tasks can be automatically scheduled using data imported from the O&M Manuals.

#### **OmTrak Facility Maintenance Module:**

Managing maintenance across a rail infrastructure portfolio is often burdened by complex and costly software that is both time-consuming to set up and operate. These systems can sometimes complicate matters more for rail infrastructure and facility managers than they resolve.

OmTrak streamlines maintenance scheduling with its calendar-driven system, which is quick and user-friendly. It includes customisable asset registers, enabling Facility Managers to effortlessly automate maintenance work orders for each asset across their entire rail infrastructure portfolio and export logs. The scheduled maintenance can be linked with the operations and maintenance manuals to ensure that assets service requirements are followed.

#### **OmTrak MPlan:**

MPlan is essential for comprehensive rail infrastructure lifecycle planning. It can dramatically reduce the costs of ongoing maintenance planning and forecasting by up to 90%. MPlan encompasses maintenance management, enhancements and upgrades, development of new properties, and the disposal of surplus or decommissioned assets.

OmTrak's MPlan has 3 main functions:

- **Condition Audits:** Streamlines data collection for condition audits, reducing associated costs by up to 75%.
- **FM Planning:** Allows for the quick generation of 1 to 50-year maintenance plans, promoting accurate planning and risk assessments. This helps cut expenses with automated cost forecasting.
- **Knowledge Management:** Training of maintenance staff in the application of MPlan's 7-step methodology for optimal system use. The OmTrak team provides support to develop, review, and update maintenance plans.



A high-speed train, likely a Shinkansen, is shown from a side-on perspective at a station platform. The train is white with blue accents and is moving towards the right. The background shows the station's infrastructure, including overhead power lines and a platform with a digital display showing the time 10:36. The entire image is overlaid with a teal color scheme and white curved lines.

# Melbourne Metro Rail Project

VICTORIA,  
AUSTRALIA

# JOHN HOLLAND



## Client: John Holland Group

### Project:

The Melbourne Metro Rail Project is a significant infrastructure development in Melbourne, Australia, featuring the construction of a 9 km-long tunnel that will link the Sunbury and Dandenong railway lines.

The tunnel will have connection points at the south-eastern side near South Yarra Station and at the western side close to South Kensington Station, effectively integrating the Dandenong and Sunbury routes.

Recognised as a crucial initiative by the Victorian Government, the Melbourne Metro is legislated under the Major Transport Projects Facilitation Act 2009. The project will be subject to a thorough technical and environmental review, accompanied by extensive stakeholder consultation.

With an estimated cost of \$11 billion, the Melbourne underground metro stands as the most substantial endeavor for Melbourne railways since the City Loop. Construction commenced in 2018, with the start of operations projected for 2025.

### Project Value:

\$11 Billion

### Date:

2021

### OmTrak Tools Used:

**Manuals Module:** Employed to manage the operations and maintenance manuals for buildings and facility assets.

**Site Works Module:** Utilised for managing defects and issues during construction and the Defects Liability Period (DLP).



# Sydney Metro Crows Nest Station

NEW SOUTH WALES,  
AUSTRALIA



## Client: AW Edwards

### Project:

Crows Nest Station is an underground station, about 25 metres below ground level, located in the Crows Nest residential area.

The station provides new metro rail access to the Crows Nest residential area and serves people within walking and cycling distance. It improves travel to local schools, businesses and Crows Nest village. The station creates a new transport focus on the southern side of the St Leonards specialised centre which supports the St Leonards southern gateway to commercial and mixed-use activities.

### Project Value:

\$370,000,000.00

### Date:

Construction Commences in 2021

### OmTrak Tools Used:

**Documents Module:** Used to manage all building-related documentation.

**Manuals Module:** Employed to manage the operations and maintenance manuals for buildings and facility assets.

**Site Works Module:** Utilised for managing defects and issues during construction and the Defects Liability Period (DLP).

# Q Rail Central Station

QUEENSLAND,  
AUSTRALIA



# BADGE



## **Client: Badge Constructions Queensland**

### **Project:**

Work included refurbishing the back-of-house facilities, adding new offices, a first aid station, and a customer communication area. Additional improvements encompassed new lighting, fans, cladding, paint, and the replacement of roof sheeting above the outer concourse.

The next phase of work included replacing the station lifts that service platforms 1/2 and 3/4.

### **Project Value:**

\$1,500,000.00

### **Date:**

Construction Completed in 2019

### **OmTrak Tools Used:**

**Manuals Module:** Employed to manage the operations and maintenance manuals for buildings and facility assets.

**Site Works Module:** Utilised for managing defects and issues during construction and the Defects Liability Period (DLP).

# Sydney Metro Waterloo Station

NEW SOUTH WALES,  
AUSTRALIA

# JOHN HOLLAND



## Client: John Holland Group

### Project:

Waterloo Station, situated approximately 25 metres below ground level, is centrally located within the Waterloo precinct.

The station's amenities include:

- Pedestrian crossings
- Bike parking within the precinct
- Taxi and Kiss and Ride bays on Cope Street
- Relocation of the bus stops on Cope and Wellington streets to Raglan Street
- Enhancement of pedestrian infrastructure around the Waterloo Metro Quarter including footpath widenings and through-site links

### Project Value:

\$900,000,000.00

### Date:

Construction Commences in 2021

### OmTrak Tools Used:

**Manuals Module:** Employed to manage the operations and maintenance manuals for buildings and facility assets.

**Site Works Module:** Utilised for managing defects and issues during construction and the Defects Liability Period (DLP).





# Profile & Company Overview

**WebFM, an award-winning firm, boasts a team of highly experienced consultants and software developers.**

**Since our inception, we've leveraged technology to simplify every aspect of building and facilities management. Our suite of integrated solutions - OmTrak, MPlan, and our bespoke consulting services - provides unparalleled efficiencies throughout the entire project lifecycle. We centralise all documents and collaborative interactions, ensuring that with WebFM, you have everything you need at your fingertips.**

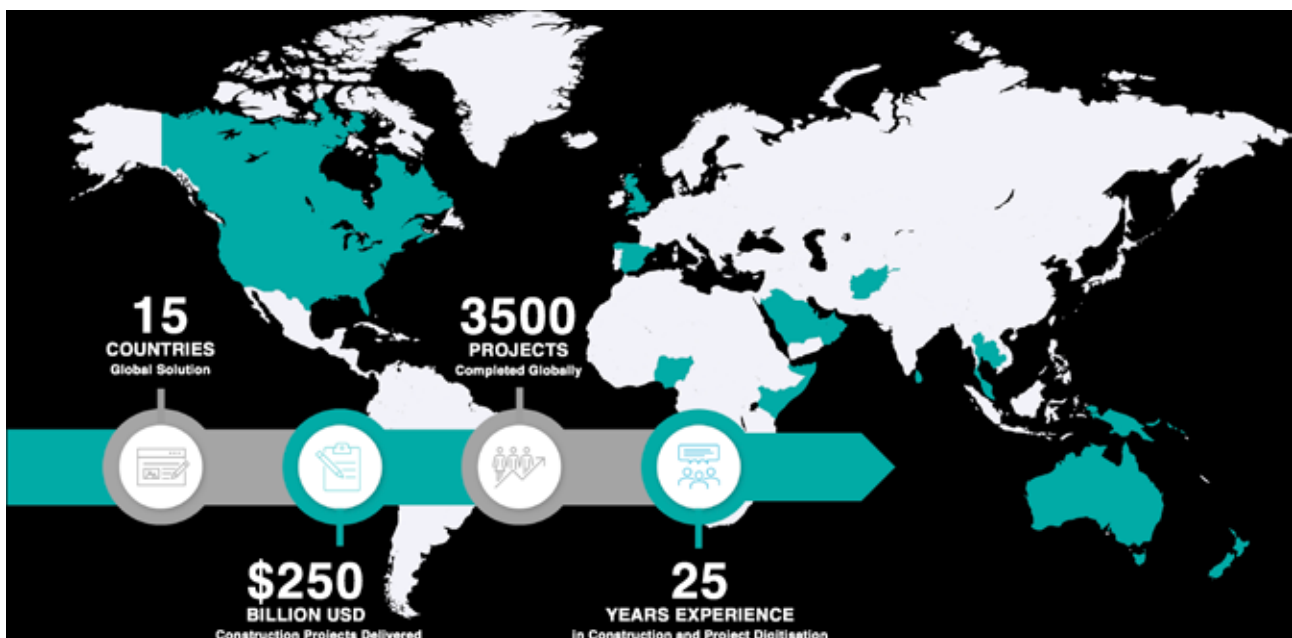
## Our Story

WebFM was developed by Stuart Smith while he was working as an asset management consultant on the Sydney Olympic Games, he realised the gross inefficiencies and shortcomings of the incumbent asset handover process.

Stuart knew there must be a way to transform this process from manual and people-driven, to highly integrated, collaborative and data-driven. He used technology to develop a process that would revolutionise project handovers. He called it OmTrak.

We've continued to refine and improve our tools and consulting services in response to technological advancements. Today, some of the world's leading construction firms, government and defense departments and major education providers use WebFM to achieve an optimal asset solution.

## Global Experience



# System Description & Functionality



A complete, cloud-based asset lifecycle solution accessible anywhere, anytime - designed to reduce time, cost, and risk.

## Document Management

Securely and quickly upload all your project-specific information in one online location. Control versions, comment, approve, collaborate and share.

## Mail, RFIs & Tasks

OmTrak automatically captures and categorises all email correspondence, so you have a complete and undeletable audit trail.

## Design Manuals

Create and review design reports during the initial feasibility and detailed design stages. Control of the process with up-to-date data available at any time.

## Operations and Maintenance Manuals

Progressively create and review online to eliminate handover delays and improve the quality of your O&M manuals.

## Defect Management

Record, distribute and manage defects, snags or punch lists faster and more efficiently using the mobile app.

## BIM Management

Project teams can quickly and easily access and manage multidimensional project models improving decision making and co-ordination.

## Project Reports

Track the status of approvals, workflows and data to gain greater visibility across the entire project.

## Facility Maintenance

Streamline and automate ongoing maintenance scheduling. Schedule future maintenance and work orders.



## Capabilities & Experience

WebFM's innovations simplify every stage of an asset's lifecycle, from the initial design and build through to ongoing maintenance. Our integrated solutions combine to give builders, owners and facility managers incredible efficiencies and reduced risk. Project handovers become seamless and asset maintenance becomes future proof. To date, more than 3,500 projects worth over \$250 billion are benefiting from our innovative approaches

WebFM's Head Office is located in Sydney, Australia, and our reach stretches across the globe. Our international client base boasts some of the world's leading construction firms, government, commercial, infrastructure, major health, and education providers. Wherever your project or team is located, WebFM can deliver a solution that's relevant for today, and for the future.

WebFM is led by the Australian Handover consulting team with a combined 60 plus years' experience delivering project globally.

OmTrak is an award-winning online platform developed specifically for construction projects. Its seven fully integrated modules combine to offer all project teams, owners, and facility managers one central, cloud-based collaboration platform.

Our specialist asset information handover and facility management consulting services enable you to work smarter. WebFM's consulting services will solve your asset challenges and help you realise smarter data management.

WebFM is Accredited with ISO 9001 - The International Organisation for Standardisation. It sets out the specification for company quality management systems and ISO 27001 - The international standard for information security. It sets out the specification for an information security management system (ISMS). WebFM accreditation with ISO 9001 and ISO 27001 gives its clients the highest standards of data security in the industry.

Please refer to [omtrak.com/iso-certification](http://omtrak.com/iso-certification) for copies our certified certificates.



# Solutions to Streamline Your Project

# BE THE MASTER

**“The end results for our clients are real time, cost saving and reduced risk. With OmTrak, there are no surprises and no information gaps and gives everyone involved a complete journey of confidence.”**

**STUART SMITH**

Managing Director - WebFM

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