

Case Study: Construction Asset Management



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Client Situation

A construction company needed to replace a manual system with an automated system to track daily truck movements. Damstra's Asset Management solution would optimise entry and exit at the construction site, improve driver safety in two-way traffic and provide real-time location tracking.

Challenges

Prior to Damstra's Asset Management solution, this construction company was facing the following productivity, safety and access control challenges:

- **Productivity**
Truck drivers needed a better alternative than handling paperwork with a gatehouse operator who manually entered arrival and departure times.
- **Safety**
With over four hundred construction traffic site visits daily, there was a need to have real-time visibility, alerts and notifications to ensure a safe work environment.
- **Access Control**
Expired documents needed to be identified and resolved for construction access control and improved site efficiencies.



Damstra Solution

Damstra's Asset Management solution automates access control to improve productivity, safety, and compliance for effective, real-time construction management. Asset management modules include:

Digital Plant Management

- **Set up** - registration and verification requirements for each asset
- **Registration** - upload asset-specific documentation
- **Verification** - documentation and asset approval
- **Site Inspection:**
 - **Booking** book site inspection in online calendar
 - **Inspection** complete checklists with photos
 - **Approval** sticker QR Code in the field

Equipment Management

- **Equipment Set Up** - entry in the system, including location
- **Dispatch Management** - dispatch to site and location, track status
- **Stock Management** - track equipment by location and quantity
- **Loan Management** - view equipment on loan by worker, location, history of loans
- **Reporting** - identify stock on hand, loan history, consumption

Equipment Calibration

- **Set Up** - enter equipment type in the system
- **Calibration** - complete questionnaire, QR stickers printed
- **Rental** - check out equipment
- **Return** - return equipment
- **Reporting** - identify stock on hand, equipment calibration failure rates, loan equipment not returned

Damstra's Asset Management solution helped this construction company:

- Digitize and automate access as drivers entered and exited the construction site
- Automate opening and closing construction boom gates
- Provide compliance alerts in real-time via SMS and/or email
- Implement dashboard indicators of plant and driver status and access trends.

Outcomes

LABOR PRODUCTIVITY

Damstra's Asset Management solution for this construction company resulted in significantly improved productivity. Over 99% of the manual transactions were automated.

LABOR PRODUCTIVITY	AVERAGE MANUAL PROCESSING TIME*
400 Trucks/day	20 Hours
400 Drivers/day	20 Hours
Daily Expense Savings**	\$1000
Monthly Savings ***	\$21,000
Annual Savings	\$252,000

* Assumes average processing time of 3 minutes per transaction from a range of 2-5 minutes
 ** Assumes hourly rate of \$25.00
 *** Assumes 21 workdays a month

SAFETY

Construction site safety improved with access control, verifying drivers via RFID personnel tags and plant tags. Traffic flow was streamlined.

ACCESS CONTROL

Documentation compliance improved with real-time dashboards capturing and resolving expired documents.

ABOUT DAMSTRA TECHNOLOGY

Damstra's Asset Management solution keeps workers productive, safe and compliant. This solution is a module in Damstra Technology's Enterprise Protection Platform (EPP). This comprehensive platform helps you maximise performance, safety, and profitability by orchestrating disparate processes and technologies.



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