



Harnessing Technology for Compliance Productivity – Case Study Examples from Australia's Big Builds

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Today's moderator

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Housekeeping



Webinar is = 40 mins

Question time = 20 mins



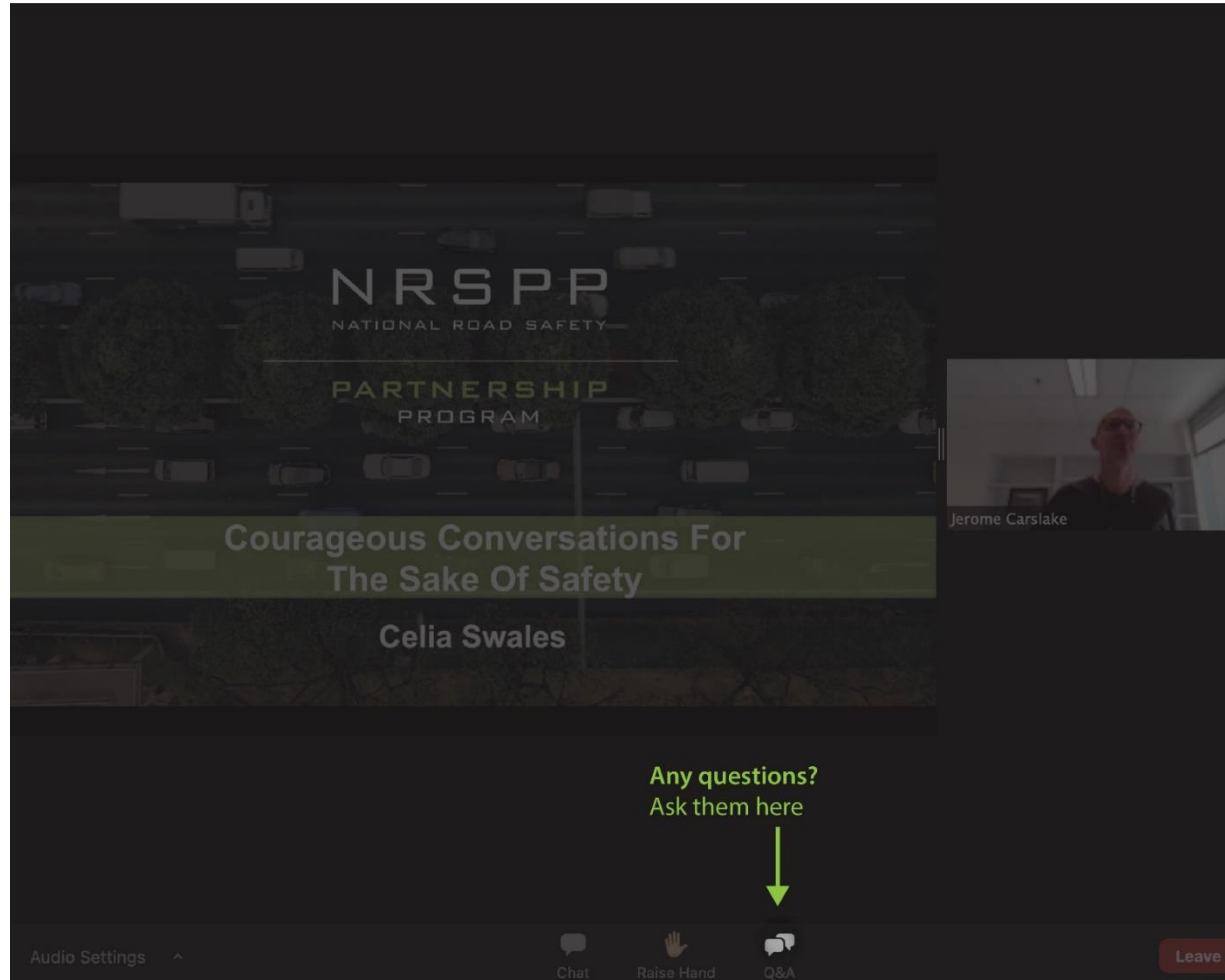
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Zoom Webinar Functions



Today's presenters

Daniel Deveney-Kelly

Logistics – Delivery Lead- Select Plant Australia Pty Ltd



Nelson Mansfield

Senior CoR Supervisor- Eastern Freeway
Burke to Tram Alliance



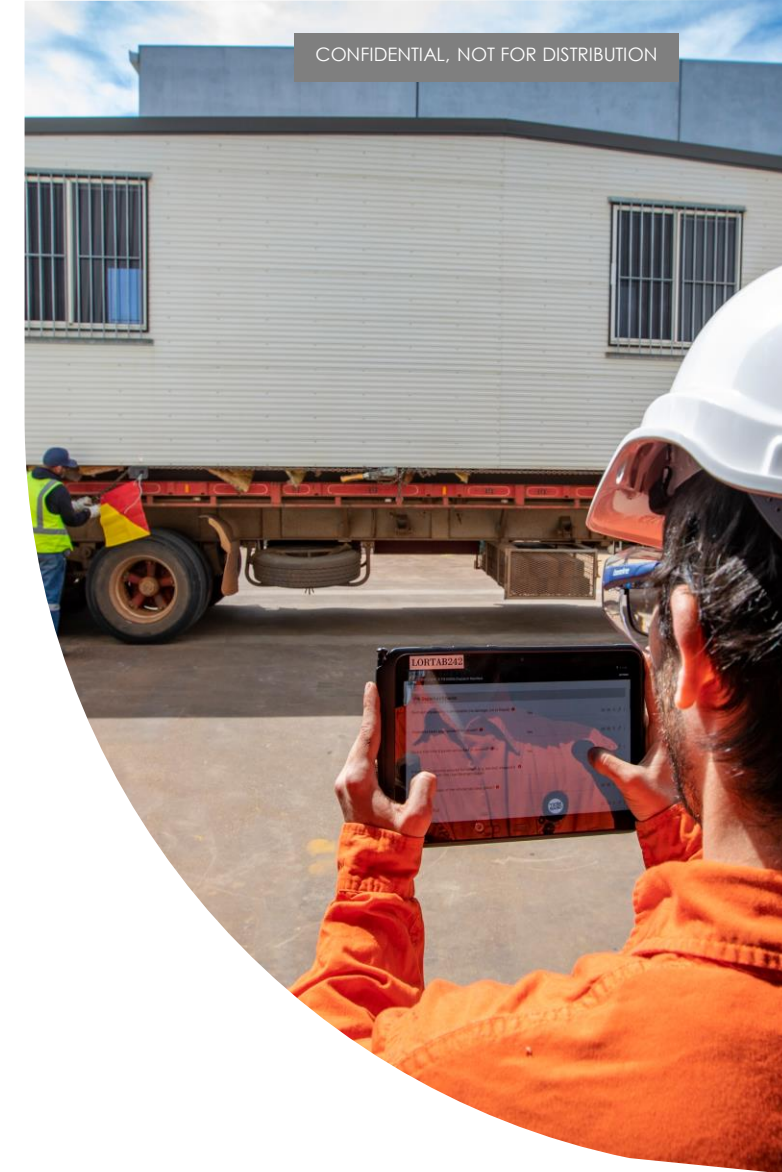


Driving Safety Forward: Harnessing Technology for Compliance and Productivity

CLOCS-A Safety Forum on Best Practice in Innovation and Safety
May 2025

Plan for Today

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CLOCS-A Requirements

Principal Contractors:

- Identify and mitigate risks to community
- Develop and maintain a Construction Logistics Management Plan (CLMP)
- Procure responsibly – ensure supply chain comply with the CLOCS-A standard
- Promote Safe Site Operations:
 - Safe haulage routes
 - Safe access / egress
 - Stable loading / unloading zones
 - Effective delivery management systems
 - Qualified site traffic marshals
- Perform compliance checks on Heavy Vehicles and Drivers
- Address non-compliances through risk mitigation and procurement actions
- Monitor compliance – independent review at least every 6 months
- Incident investigation – review, investigate and prevent reoccurrence



CLOCS-A Requirements

Transport Operators:

- Implement a robust management system covering
 - Safe Haulage Routes
 - Regular vehicle maintenance
 - Driver licencing compliance
 - Operations and subcontractor oversight
- Ensure fleet quality and operational standards
- Support and ensure the selection of advanced safety equipment for vehicles
- Ensure drivers receive supplementary training
- Collect and report on collision data to identify risks and share lessons learned
- Reduce risks to protect vulnerable road users
- Procure responsibly – ensure supply chain comply with the CLOCS-A standard

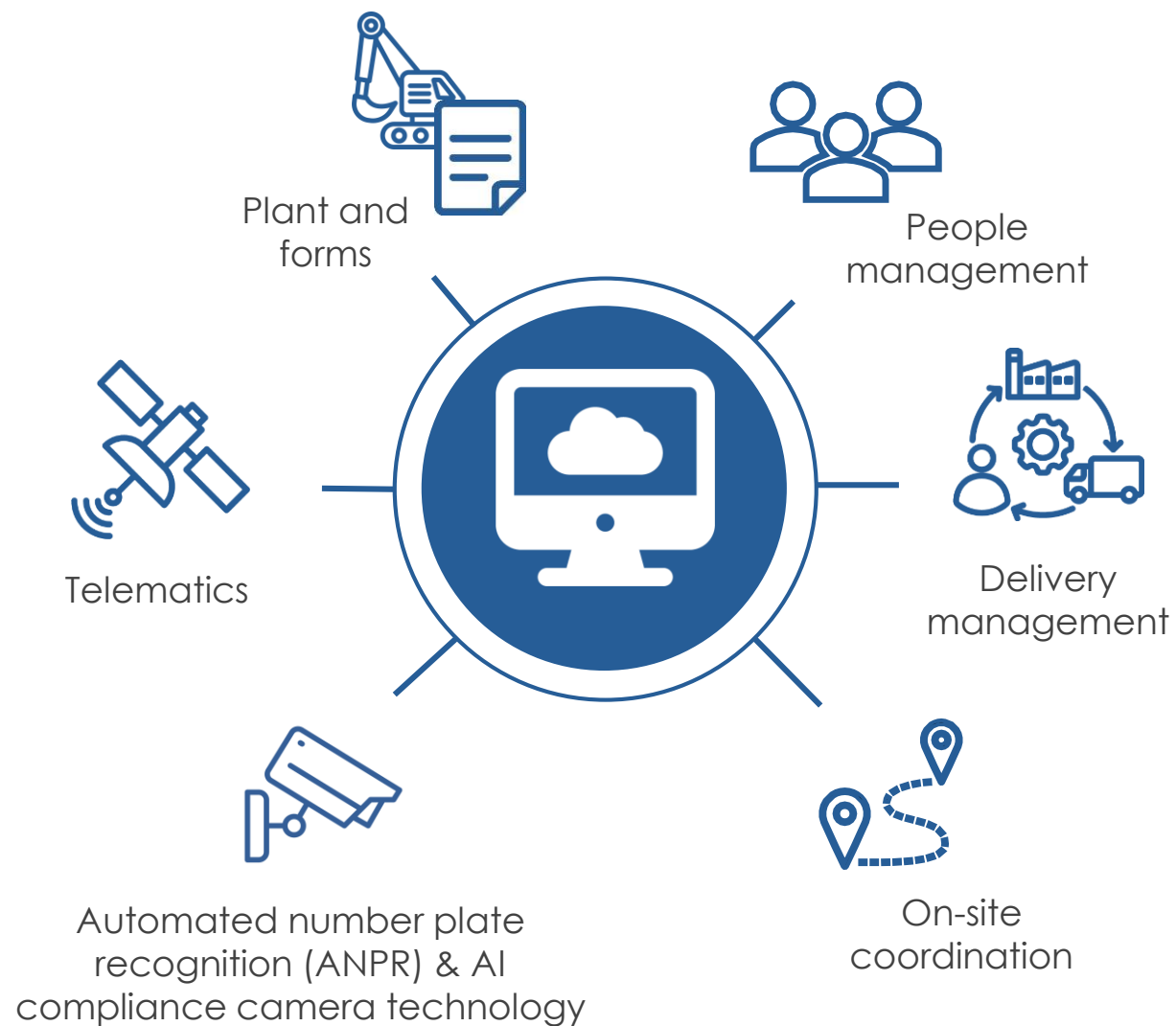


Advisory Services

- Prepare Construction Logistics Management Plan
- Development of CoR Strategy and Management Plan
- Risk Assessment (identification & mitigation)
- Supply Chain Vetting & Procurement
- Traffic Strategy Development & Management Plans
- Heavy Vehicle Management



Logistics Management Platform Overview



Logistics Management Platform - Principal Contractor

Stage 1



Logistics Management Platform

Site Setup

Day to Day Control at Site Level:

- Ability to dynamically manage all gates, opening times, and delivery durations
- Ability to automatically communicate changes
- Daily operational control with flexibility

Flexible Control at Every Gate:

- Directions & Naming
- Open & Close Times
- Laydown Areas
- Attendant Plant
- Authorised Vehicle types

The 'Edit Site Details' form includes the following sections:

- Site Address:** Multiple text input fields.
- Postcode:** A text input field.
- Contact No.:** A text input field.
- Weekday opening times:**
 - Open Time: 06:00
 - Close Time: 17:00
- Weekend opening times:**
 - Open Time: 00:00
 - Close Time: 23:00
- Days Open:** Checkboxes for Mon, Tue, Wed, Thu, Fri, Sat, Sun. Mon, Tue, Wed, Thu, and Sun are checked.
- Auto Accept Bookings:** A dropdown menu set to 'On' with a green highlight. Below it, text reads 'Auto Accepts Bookings up to the Max Requests per slot'.
- Delivery time slot parameters:**
 - Slot Duration (minutes): 60
 - Max Delivery Requests per Slot: 10
 - Max Delivery Duration (HH:MM): 04:00
- Block booking parameters:**
 - Max Block Booking Size (Days): A slider set to 20.
- Delivery booking notice period for contractors:**
 - Radio buttons for 'Set notice period in full days' and 'Set notice period in hours'. 'Set notice period in hours' is selected.
 - Notice period is the minimum number of full calendar days between 23:59 on the day of booking request and 00:00 on the day of expected delivery.
 - Notice Period in Days: 1
 - Notice Period in Hours: 0
 - Checkbox for 'Include Weekends in Notice Period'.

The 'Manage Delivery Gates' interface includes the following sections:

- Manage Delivery Gates:** The main title of the window.
- List of Gates:** A sidebar with a list of gates: Gate 1, Gate 3, Gate1, and Gate2. Gate 1 is selected.
- General Tab:** The active tab, showing a calendar view of the week (Sunday to Saturday).
- Open Times:** A timeline view showing the open times for the selected gate. The timeline ranges from 00:00 to 23:00. The open times are indicated by a green bar from 07:00 to 17:00 on Monday and Tuesday.
- Buttons:**
 - General (gear icon)
 - Open Times (clock icon)
 - Closed Days (calendar icon)
 - Laydown Areas (house icon)
 - Cranes (crane icon)
 - Vehicle type... (truck icon)
 - Deactivation (red circle with X icon)
- Timeline:** A horizontal timeline from 00:00 to 23:00. The open times are indicated by a green bar from 07:00 to 17:00 on Monday and Tuesday.
- Buttons:**
 - + Add Time Range
- Footer:**
 - New gate name or description: A text input field.
 - Create: A green button.
 - Back: A button with a left arrow.
 - Reset Changes: A button with a circular arrow icon.
 - Save Changes: A button with a checkmark icon.

Logistics Management Platform

Delivery Request

Delivery bookings are scalable and project specific:

1. Booking: Date, time, duration, contractor and contact details
2. Vehicle: Haulier, driver & vehicle details plus dispatch address
3. Materials: Type, quantity, fragile, hazardous, handling etc.
4. Arrival: Ability to select gate or loading bay with laydown area
5. Unloading: Method, resources, edge protection and lifting plan

The screenshot shows the 'Delivery Booking' form. It is divided into several sections:

- Booking:** Includes fields for Booking Date (16/06/2024), Delivery Date, Delivery Time, Delivery Location, Hgins, Contractor, Contact Name, and Contact Number.
- Vehicle:** Includes fields for Vehicle ID, FORD No., FORD Colour, Delivery Vehicle, Haulage Company, Driver, Vehicle Reg, Dispatch Postcode, Total Distance (miles), and CO2 Class.
- Materials:** Includes a table for adding materials with columns for Materials, Quantity, Fragile, Hazardous, and Handling. It also has buttons for 'Add Materials', 'Reset Materials Form', and 'Remove Selected'.
- File Upload:** A section for uploading files, with a 'Choose File' button and an 'Upload New File' button.
- Unloading:** Includes fields for Unload Method, Book Resource, Edge Protection, and Lifting Plan in Place.

The screenshot shows the 'Abnormal Load Details' form. It includes:

- Abnormal Load Details:** Fields for Norfolk and Suffolk Constabulary Movement Order Number, SZC Programme Portion, Length (m), Height (m), Axle Weight (kg), and Escort Requirements.
- Approved Route To Be Taken:** Fields for Width (m), Weight (kg), and AL Category.
- Materials/Plant:** A table for adding materials with columns for Materials/Plant, Quantity, Fragile, Hazardous, and Handling. It also has buttons for 'Add Materials', 'Reset Materials Form', and 'Remove Selected'.
- Unloading:** Fields for Unload Method, Crane / Hoist, Edge Protection, and Lifting Plan in Place.

Logistics Management Platform

Compliance & Reporting:

Delivery Reports

Reports

Deliveries

CO₂ Emissions

Delivery Performance

Late Deliveries

No-Show Deliveries

Booked vs. Actual Vehicles

Unplanned Deliveries

Unplanned CO₂ Emissions

Delivery Checklist

Arrived Deliveries

Deliveries Refused At Booking Time

Deliveries Refused On The Tablet

Live

Vehicles On Site

Charts

Deliveries Over Project (Monthly)

Arrived Over Project (Monthly)

CO₂ Over Project (Monthly)

Calendar View

Table View

Print List

Date From: 07/01/2025

Date To: 07/01/2025

Search...

| Booking Id | Load description | Arriving | Leaving | Actual Arrive | Actual Departure | Delivery status | Gate | Company | Vehicle type | Laydown area | Contact Name | Contact Number | Hauler | Vehicle Reg | Resources | Delivery Cat |
|------------|--------------------------------------|-------------------|-------------------|-------------------|-------------------|-----------------|------------------------------|-----------|----------------|----------------|--------------|----------------|-----------------------|-------------|-----------|--------------|
| 5743 | 1 x Box(s) of Luke Test 01 | 07/01/2025, 09:00 | 07/01/2025, 09:30 | 07/01/2025, 11:05 | 07/01/2025, 13:02 | Accepted | Gate 1 | DATASCOPE | Laydown Area 1 | DHW | 0123456789 | DATASCOPE | | | | Delivery |
| 5744 | 1 x Box(s) of Test 2 for Hailer App | 07/01/2025, 10:00 | 07/01/2025, 10:30 | | | Rejected | Gate 1 | DATASCOPE | Laydown Area 1 | DHW | 0123456789 | DATASCOPE | | | | Delivery |
| 5746 | 1 x Standard Pallet (euro) of Test | 07/01/2025, 09:00 | 07/01/2025, 09:30 | | | Rejected | Gate 1 | DATASCOPE | Laydown Area 1 | DHW | 0123456789 | DATASCOPE | | | | Delivery |
| 5750 | 1 x Box(s) of test | 07/01/2025, 09:00 | 07/01/2025, 10:00 | | | Accepted | Gate 1 | DATASCOPE | Artic | Laydown Area 1 | DHW | 0123456789 | DATASCOPE SYSTEMS LTD | VN18PNJ | | Delivery |
| 5751 | 1 x Box(s) of test | 07/01/2025, 09:00 | 07/01/2025, 10:00 | 07/01/2025, 09:03 | 07/01/2025, 11:02 | Accepted | Gate 2 (Restricted Vehicles) | DATASCOPE | By Hand | Laydown Area 2 | DHW | 0123456789 | DATASCOPE SYSTEMS LTD | VN18PNJ | | Delivery |
| 5752 | 1 x Box(s) of test | 07/01/2025, 10:00 | 07/01/2025, 11:00 | | | Accepted | Gate 1 | DATASCOPE | Concrete Lorry | Laydown Area 1 | DHW | 0123456789 | DATASCOPE SYSTEMS LTD | VN18PNJ | | Delivery |
| 5753 | 1 x Bundle(s) of test | 07/01/2025, 12:00 | 07/01/2025, 12:30 | 07/01/2025, 13:06 | 07/01/2025, 13:40 | Accepted | Gate 1 | DATASCOPE | | Laydown Area 1 | DHW | 0123456789 | DATASCOPE | | | Delivery |
| 5754 | 2 Line Items | 07/01/2025, 09:00 | 07/01/2025, 10:00 | | | Accepted | Gate 1 | DATASCOPE | | Laydown Area 1 | DHW | 0123456789 | DATASCOPE | | | Delivery |
| 5755 | 3 x Box(s) of Misc Items | 07/01/2025, 10:00 | 07/01/2025, 12:30 | 07/01/2025, 12:24 | 07/01/2025, 13:12 | Rejected | Gate 2 (Restricted Vehicles) | DATASCOPE | | Laydown Area 2 | DHW | 0123456789 | DPD | V33JDR | | Delivery |
| 5756 | 1 x Skips) of Skip | 07/01/2025, 12:00 | 07/01/2025, 12:30 | | | Accepted | Gate 1 | DATASCOPE | | Laydown Area 1 | DHW | 0123456789 | MUCKBARRY | | | Delivery |
| 5765 | 1 x Box(s) of test | 07/01/2025, 11:00 | 07/01/2025, 12:00 | 07/01/2025, 11:59 | 07/01/2025, 14:06 | Accepted | Gate 1 | DATASCOPE | By Hand | Laydown Area 1 | DHW | 0123456789 | DATASCOPE SYSTEMS LTD | ABC123 | | Delivery |
| 5766 | 10 x Box(s) of PPE | 07/01/2025, 12:30 | 07/01/2025, 13:30 | | | Accepted | Gate 2 (Restricted Vehicles) | DATASCOPE | | Laydown Area 1 | DHW | 0123456789 | DATASCOPE | ABC123 | | Delivery |
| 5767 | 1 x Box(s) of Cable Tray | 07/01/2025, 12:30 | 07/01/2025, 14:00 | 07/01/2025, 13:13 | 07/01/2025, 14:32 | Accepted | Gate 1 | DATASCOPE | By Hand | Laydown Area 1 | DHW | 0123456789 | Cone Highways | ABC123 | | Delivery |
| 5768 | 1 x Bundle(s) of test | 07/01/2025, 16:30 | 07/01/2025, 17:00 | | | Accepted | Gate 1 | DATASCOPE | Van | Laydown Area 1 | DHW | 0123456789 | DATASCOPE | VBN | | Delivery |
| 5769 | 1 x Box(s) of Cable Tray | 07/01/2025, 13:30 | 07/01/2025, 14:00 | 07/01/2025, 14:43 | 07/01/2025, 14:48 | Accepted | Gate 2 (Restricted Vehicles) | DATASCOPE | Artic | Laydown Area 1 | DHW | 0123456789 | DATASCOPE SYSTEMS LTD | ABC123 | | Delivery |
| 5770 | 1 x Box(s) of X | 07/01/2025, 09:00 | 07/01/2025, 09:30 | | | Rejected | Gate 1 | DATASCOPE | | Laydown Area 1 | DHW | 0123456789 | | | | Delivery |
| 5782 | 1 x Box(s) of Test | 07/01/2025, 16:00 | 07/01/2025, 16:30 | | | Accepted | Gate 1 | DATASCOPE | | Laydown Area 1 | DHW | 0123456789 | | | | Delivery |
| 5783 | 1 x Box(s) of Mulchdrop of materials | 07/01/2025, 09:00 | 07/01/2025, 11:00 | 07/01/2025, 11:03 | 07/01/2025, 12:41 | Accepted | Gate 1 | DATASCOPE | | Laydown Area 1 | DHW | 0123456789 | | | | Delivery |
| 5784 | 1 x Pallet(s) of Test for Demo | 07/01/2025, 11:00 | 07/01/2025, 11:30 | | | Accepted | Gate 1 | DATASCOPE | | Laydown Area 1 | DHW | 0123456789 | | | | Delivery |
| 5785 | 1 x Bundle(s) of test | 07/01/2025, 09:00 | 07/01/2025, 10:00 | 07/01/2025, 09:11 | 07/01/2025, 10:37 | Rejected | Gate 2 (Restricted Vehicles) | DATASCOPE | Courier | Laydown Area 1 | DHW | 0123456789 | | | | Delivery |

Create Filter

10 25 30 50

Reset Columns

Save Template

Load Template

Update delivery status

Report Criteria

From: 07/01/2025 To: 07/01/2025

Company: All Companies

Site: Green Concrete

Plant Management Details

Summary

Detail

Plant Utilisation

Total Plant 4,043

Plant 1,233

Pre-Mobe Complete 19^{1,214}
Pending / Expired

Pre-Qual Complete 1^{1,232}
Incomplete

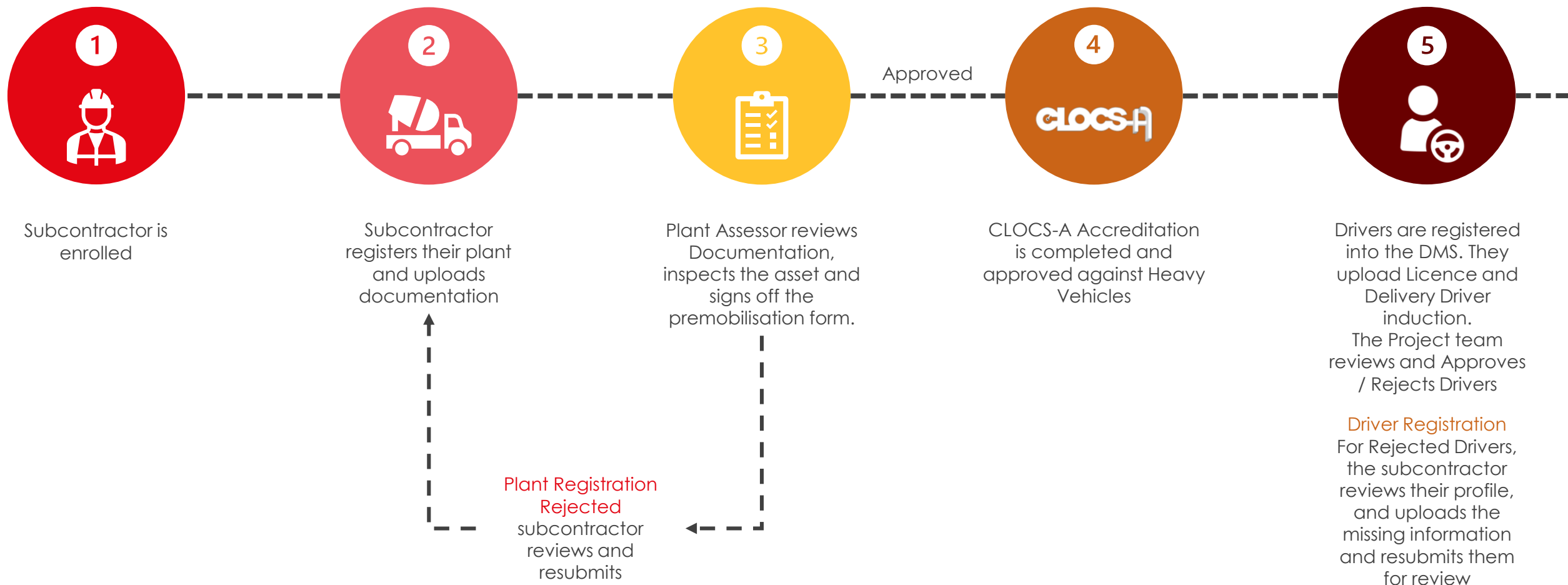
Select Checked At Date Range

| Plant Id | Registration | Manufacturer | Location | Type | Company Name | Document Status | Plant Risk Assessment | Last Machine | Acquired Date | Date On Site | Off Hire Date | Next Service Due... |
|----------|--------------|---------------------|-----------------------|---------------|------------------------------|-----------------|-----------------------|--------------|---------------|--------------|---------------|---------------------|
| CV04 | | 2005 Hino Tray | All sites | Heavy Vehicle | Matrix Drilling | | Link | | - | 2015-03-03 | - | - |
| CV08 | | 2008 Isuzu GIGA CXV | All sites | Heavy Vehicle | Matrix Drilling | | Link | | - | 2015-02-11 | - | - |
| CV10 | | 2009 Isuzu FTR | All access sites | Heavy Vehicle | Matrix Drilling | | Link | | - | 2009-11-20 | - | - |
| CVU008 | | Truck & Trailer | Bulleen | Heavy Vehicle | EPH - Eastern Plant Hire | | Link | Lin | - | - | - | 123000 kms |
| CWT 439 | | Truck & Trailer | Bulleen | Heavy Vehicle | EPH - Eastern Plant Hire | | Link | Lin | - | - | - | - |
| CKL603 | | - | ETBA | Heavy Vehicle | FLEET PLANT HIRE PTY LIMITED | | Link | | - | - | - | - |
| D2436 | | Isuzu Rigid | INFRABUILD NOBLE PARK | Heavy Vehicle | K&S Freighters | | Link | | - | 2013-01-01 | - | - |
| D2589 | | Iveco Powerstar | Infrabuild Sunshine | Heavy Vehicle | K&S Freighters | | Link | | - | 2015-01-01 | - | - |
| D2815 | | Iveco Stralis | Infrabuild Sunshine | Heavy Vehicle | K&S Freighters | | Link | | - | 2017-01-01 | - | - |
| D2816 | | Iveco Stralis | Infrabuild Noble Park | Heavy Vehicle | K&S Freighters | | Link | | - | 2017-01-01 | - | - |



Logistics Management Platform - Transport Operator

Stage 2



Logistics Management Platform

Vehicle Onboarding

A Subcontractor registers an asset and attaches relevant documentation. This may include documents such as:

- Plant Risk Assessment
- Weed and Seed Certificate
- Operators Manual
- Maintenance and Service History

After registering the asset, the subcontractor fills out a premobilisation form. This can be raised and completed on a phone or tablet. A pdf is available after submission

A Plant Assessor reviews all documents and forms

Form - Tablet View

Form - Phone View



Logistics Management Platform

Driver Registration

Delivery Booking

Booking

Booking To Site:

Sydenham to Bankstown AU

Delivery Date

14/05/2025

← Check Date

Delivery Time

06:00

▼

Delivery Duration

01:00

▼

On Site Contractor

Select Plant Australia

▼

On Site Contact Name

Madeleine Carty

▼

Add New

Contact Number

0438521695

✖

Contact Email

mcarty@selectplant.com.au

Booking Type

Delivery

▼

Gate

Gate/Loading Bay

Belmore Triangle

▼

Vehicle

Haulage Company

Select Plant Australia

▼

Add New

Driver

Sian Sheahan

▼

Add New

Update

Driver Contact Number

+61498130670

Vehicle Reg.

ABC 123

▼

Add New

Delivery Vehicle

Bogie - 10 wheeler (max 18T)

▼

Does the booking have a trailer?

☐

Dispatch Postcode

2193

Total Distance(km)

20

CO₂ Class

Heavy Rigid (HR) - Diesel

Return Journey

☐

Vehicle

Haulage Company

Eather Group PTY Ltd (NSW)

Driver

Select...

▼

Vehicle Reg.

Select...

▼

Delivery Vehicle

Does the booking have a trailer?

☐

Dispatch Postcode

Total Distance(km)

CO₂ Class

Return Journey

☐

Quantity

Ben Cosgrove

Christopher Rushton

Dionis Mazzone

Edwin Narayan

Machael Rostom

Dean Van Der Waarden

Grant Visentine

Harvey Ericka

Shannon Williams

Timothy Nikora

Trent Moran

David Colefax

Ericka H

Ericka Harvey

Add New Driver

Please note that a driver should only be added if they are not currently available to be selected.

Driver Name

Mobile Phone No.

 0412 345 678

☐ Light Vehicle Driver

☒ Heavy Vehicle Driver

Driving Licence Photo

Choose file

No file chosen

Delivery Driver Induction and Declaration

Choose file

No file chosen

Close

Submit

Delivery requests are submitted through the DMS

New delivery drivers can be registered when making a booking. The system tracks their Heavy Vehicle Licence and Delivery Driver Induction Form. Delivery Drivers are approved by the Principal Contractor.

Approved Drivers are **Green**

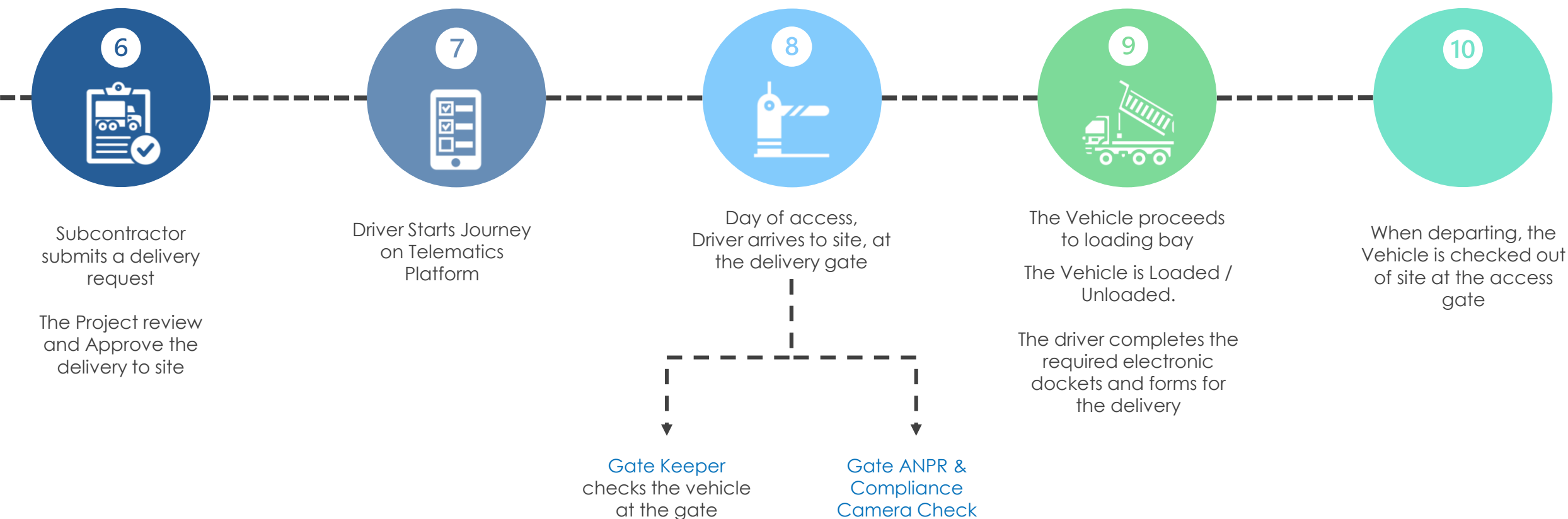
Pending Drivers are **Orange**

Rejected Drivers are **Red**

22 July 2025



Logistics Management Platform – Transport Operator

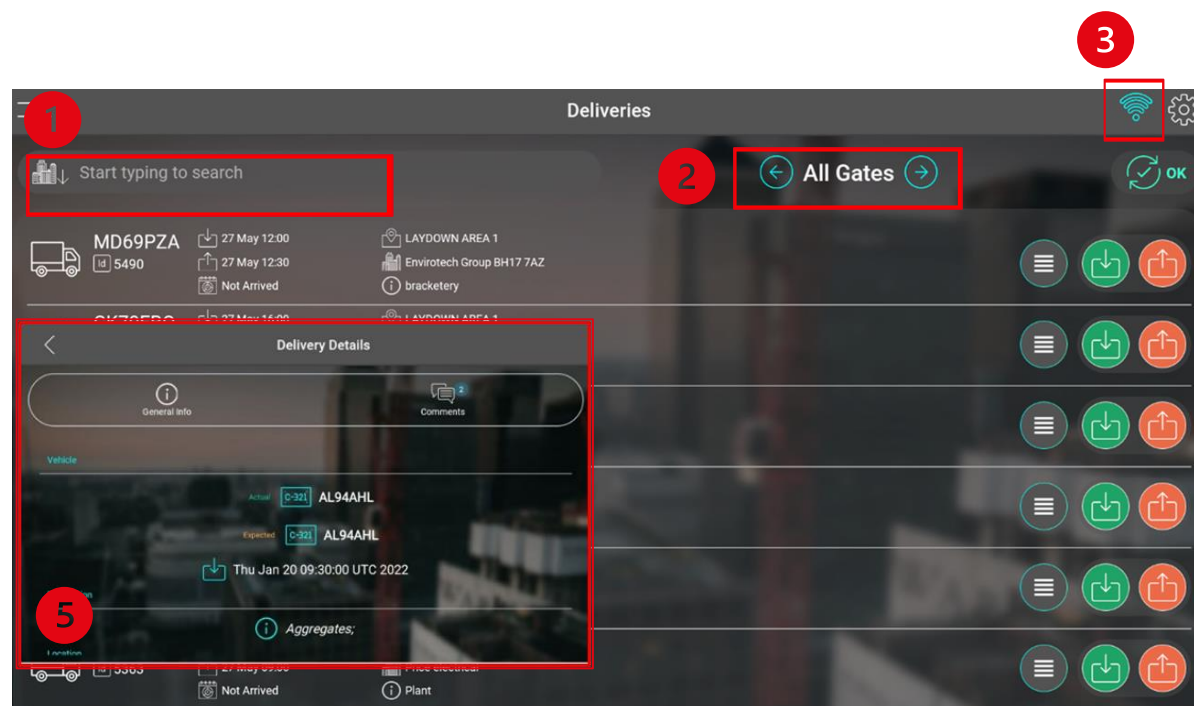


Gate Keeper

Access to key Data in the Field



For a Traffic Controller using a tablet:

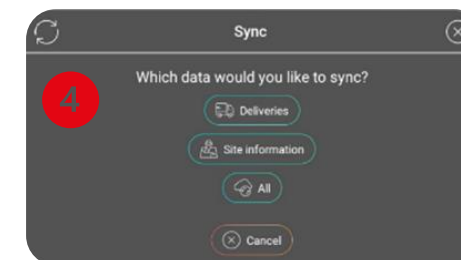


1. Users can quickly search for a specific delivery by simple booking ID, haulage company or vehicle registration

2. Gate & laydown areas can be toggled quickly, with booking data (such as unloading resources) always live.

3. Global sims ensure certainty for the users

4. Simple pull downs and taps synonymous with all smart devices mean new users can quickly pick up key tasks.



Line items by delivery are summarised, not complicated.

Live site information allows drivers to be updated with clear instructions

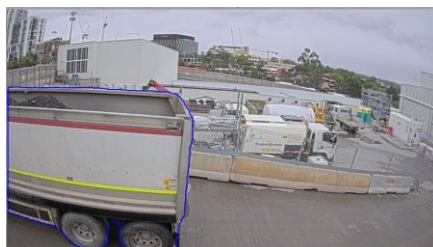
Changes can be captured without loss of original booking data.

5. Key delivery details are instantly available.

ANPR & AI Compliance Cameras

Features:

- CLOCS-A accredited vehicle
- Road Registration Status
- Tarp Covers not closed
- Dimension Checks
- Restraint image capture
- Integration with site access gates and boom gates



Benefits:

- Productivity and cost savings
- Enhanced visibility of haulage activities with real-time
- Proactive monitoring and reporting
- Automated alerts and notifications
- Compliance with HVNL & CoR legislation
- Assists with managing heavy vehicle and driver compliance
- Proactive risk management
- 100% compliance with vehicles being road registered
- Streamlines site vehicle entry / exit process



Vehicle Non-Conformance Notifications

No Permit - 5th Visit Alert

Site: RoseHill_Gate2

Time Entered on Site: 01/08/2023, 4:31:29 pm

Plate Details

DC03VF

NSW

Registration Expiry Date: 24-11-2023

NSW

08-08-2023



X014JG
NSW

UNREGISTERED
12-06-2024

None

NO-TARP Alert



Classifications

load ☒

no-tarp ☒

spoil-truck ☒

load ☒

spoil-truck ☒

Add classification...

Cancel

Submit

Conclusion

Benefits:

- Greater compliance with Heavy Vehicle National Law & CLOCS-A Standard
- Noticeable improvements in managing the safety of transport activities
- Enhanced productivity and increased resource utilisation
- Improved safety culture across transport activities
- Real-time, actionable data at your fingertips
- Business operational cost savings
- Greater control of visibility of transport activities
- CLOCS-A Silver: Demonstrate Continual Improvement
- CLOCS-A Gold: Demonstrate safety, productivity and efficiency improvements

Key Lessons:

- Training and upskilling
- Create the right culture
- Be clear on what success is and how you will measure it



Thank you

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Questions?



A partnership between:

Joining A Major Project – Onboarding (transport / logistics)

How it starts

1. Expression of interest
2. Scope of works issued
3. Pre Tender submission – qualifying period
4. Plan against scope – submit what the proposal or Project has requested



Success

1. Tender awarded
2. Package content and scope is presented
3. Final contract is sighted for signing
4. Discussion takes place and an addendum is drafted to modify or delete entries from the contract
5. Final scope is agreed on
6. Contract signed – possible variations issued

The process for delivery now starts

Joining A Major Project - Onboarding

CLOCS-A is positioned at the **forefront to delivering the safer outcomes for projects** and will see the merging of the VRU (Vulnerable Road Users Program) to come together as one platform. These services are crucial for infrastructure projects, construction logistics, and broader supply chain management within States across Australia.

Why CLOCS-A

This platform will align the process for

1. Delivering a clear set of Heavy Vehicle Standards across the industry
2. Deliver a standardised Induction & Onboarding program that will be adopted throughout the industry
3. Deliver a program that creates equality and balances an approach to fairness
4. Deliver on a program that not only has the opportunity to improve safety in construction but also represents a community welfare for members of the public.

1 set of standards with an equal playing field for all



Every Project Has a Different Approach

- ❑ **Victorias Big Build** – major road and rail projects that essentially are packaged to 100-150 different construction consortiums (John Holland JV, Laing O'Rourke JV, CPB JV, MRPV, Lendlease, Acciona, Maca Civil just to name a few).

Key Projects

- Metro tunnel Project
- Regional Rail
- North Eastlink – Multiple Packages
- Suburban Rail Loop
- Melbourne Airport Rail

- ❑ **NSW Government** – major road and rail projects that essentially are packaged to 100-150 different construction consortiums (McConnell Dowell, BMD, CPB) just to name a few

Key Projects

- Western Sydney Airport
- Western Sydney Infrastructure Plan
- Snowy 2.0
- Western Harbour Tunnel
- Pacific Hwy Upgrade

Further to that add for the other **States Major Government projects**, Melbourne to Brisbane Inland Rail, Cross river Rail, Metronet WA, Torrens to Darlington S.A, Clifford Hill Development . This accounts for over \$100 billion dollars in Major Projects.

Before proceeding on to the site for EBTA you must read and understand the following information, understand your responsibilities and also follow any instructions given to you whilst on site.

Operating on the Project (EBTA) requires 100% Compliance 100% of the time



1. Inductions must be completed – Face to Face Driver Induction
2. Online modules must be completed via Damstra + uploads and vetting
3. Technology training, app-based platforms to produce payment dockets
4. Heavy Vehicle / Plant Inspections will take place, records and vehicles inspected
5. Rolling assets must be VRU Compliant
6. Audits will be conducted randomly on equipment maintenance and condition
7. Contractors to upload compliance paperwork, asset details, registrations, photographs of all assets.



Joining A Major Project – Lets Compare The Now / Future

Induction gremlins – Can we achieve 1 source

The now..... major projects individual inductions

Everyone has a different
induction process

Let's not complicate it



CLOCS-A has the ability to uniform one compliance program

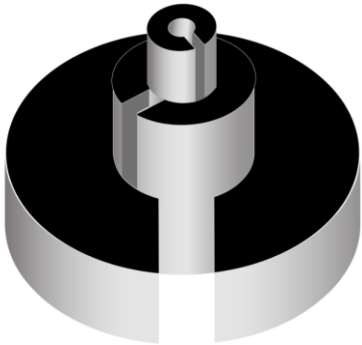
Safe Vehicle VRU Equipment for Vehicles over 4.5T

The Now

- **Side Under- Run Protection** - Side guards will be fitted to both sides of the prime vehicles over 4.5 tonne GVM in accordance with the 'Australian Trucking Association Industry Technical Council Advisory Procedure - Side Under Run Protection. **Not required on tipper trailers or low loader trailer/trailers that travel at variable heights.**
- **Front and Rear and side blind spot mirrors** - . Blind spot elimination or minimisation at least one of the following:
 - a. Class V mirrors on bonneted vehicles and Class V (5) & VI (6) mirrors on Cab Over vehicles or blind spot cameras.
- **Left hand warning device** – alerting VRU's of vehicle turning left
- **VRU – Vulnerable Road Users** - Prominent signage warning road users of the dangers of maneuvering past the inside or getting too close to vehicles. Must be fitting to both truck bins and must be on the passenger side rear of each trailer.
- **High visibility reflective markings** (consistent in nature with the requirements of the 'Australian Trucking Association Technical Advisory Procedure – Heavy Vehicle Visibility should be placed and maintained on: -
 - All side under-run protection
 - including parts of the vehicle and/or ancillary devices (fuel tanks, locker boxes etc)
 - which form part of the side under-run protection.
 - The draw bars of all dog trailers.



CLOCS-A Creates A Simple Standard



Silver Standard

A higher standard of equipment that is preferred for heavy vehicles complying with CLOCS-A technical requirements. Similar to UK CLOCS and broadly aligned to current NSW Vic government major projects.

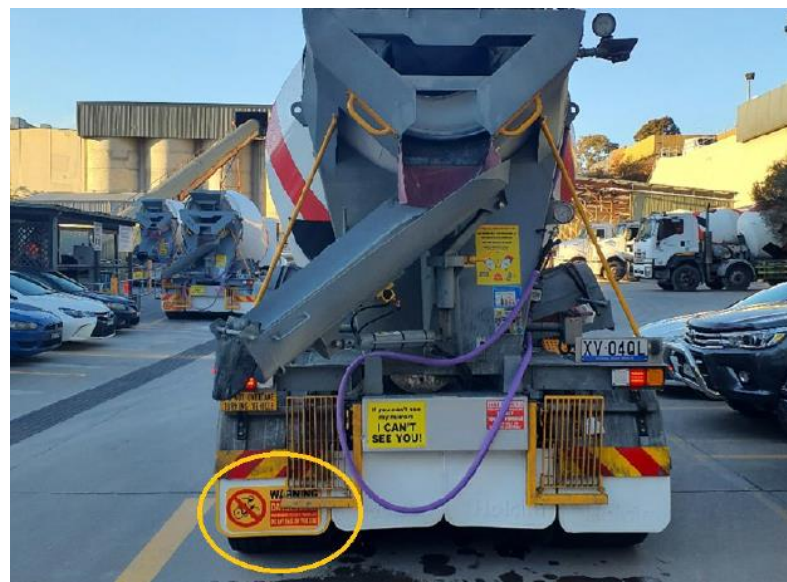
Accreditation requires compliance with at least one of the standards nominated as “either/OR” plus all remaining standards where applicable.

Accreditation to Silver also requires prior accreditation to Bronze.

| | |
|---|---|
| Daytime Running Lamps | > |
| Left turn Audible Warning | > |
| Front Underrun Protection | > |
| Side Underrun Protection Devices – Trucks | > |
| Side Underrun Protection Devices – Trailers | > |
| Rear Underrun Protection Devices | > |
| ABS – Trucks | > |
| ABS – Trailers | > |
| ADR 80/30 Emission Standards (Euro V) | > |
| Left-Side Blind Spot Cameras | > |
| or | |
| Left-Side Proximity Sensors | > |

Class V and Class VI mirrors

Class V



Reflective Tape and Asset Markings / Warning Stickers



Eastern Freeway
Burke to Tram Alliance

FOR DISTRIBUTION



Warning signage must be in place on all assets as this forms part of the VRU Requirements - Mandatory

Questions?



A partnership between: