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Digital construction that works for everyone

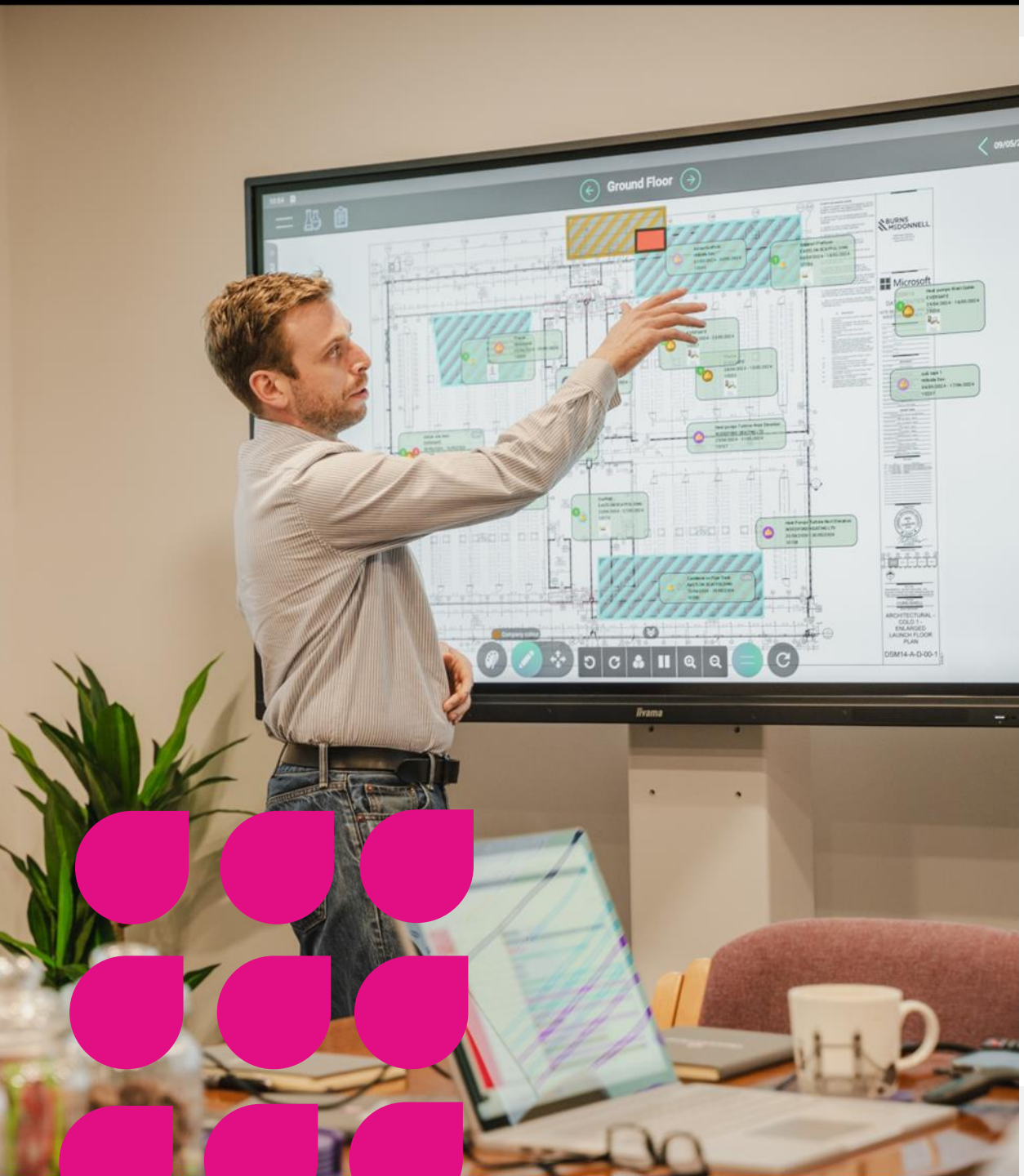
How digitisation of delivery management can impact HSE, costs and programme on a single site and at scale

Thursday 8th May 2025

Introductions

Richard Bailey
Director of Sales

Rob Hinds
Director of Business Systems



Plan for Today

Experience, Overview & Wider Impact

Importance of Day to Day, Flexible Control

Intuitive Bookings, Scalable & Specific

Safety First Culture & Supplier Management

Cost Saving via Event Control & Trend Analysis

Any Questions?

Please note: We have left time for questions but please feel free to post in the chat at any time and we will answer as we walk through the pack.

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Experience, Overview & Wider Impact

Global Logistics Support

Qiddiya City (Saudi Arabia) $40bn

The Ellinikon (Greece) $8bn

Sizewell C (UK) £25bn

Paris 24 Olympics (France)

Microsoft Build (Global) $80bn

Intel Penang (Malaysia) $7bn

Novo Nordisk (Denmark) $2.5bn

Parliament Estates (UK)

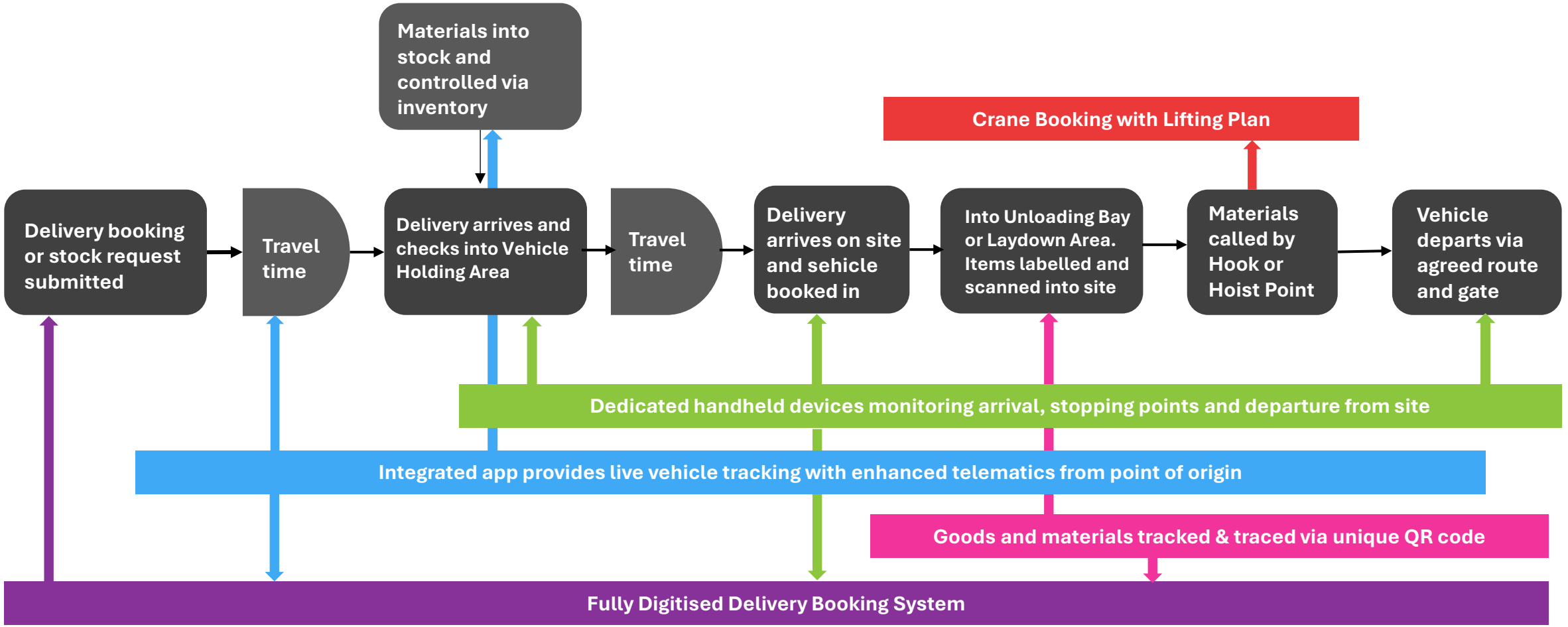
London Power Tunnels (UK) $1bn

HS2 (UK) $60bn

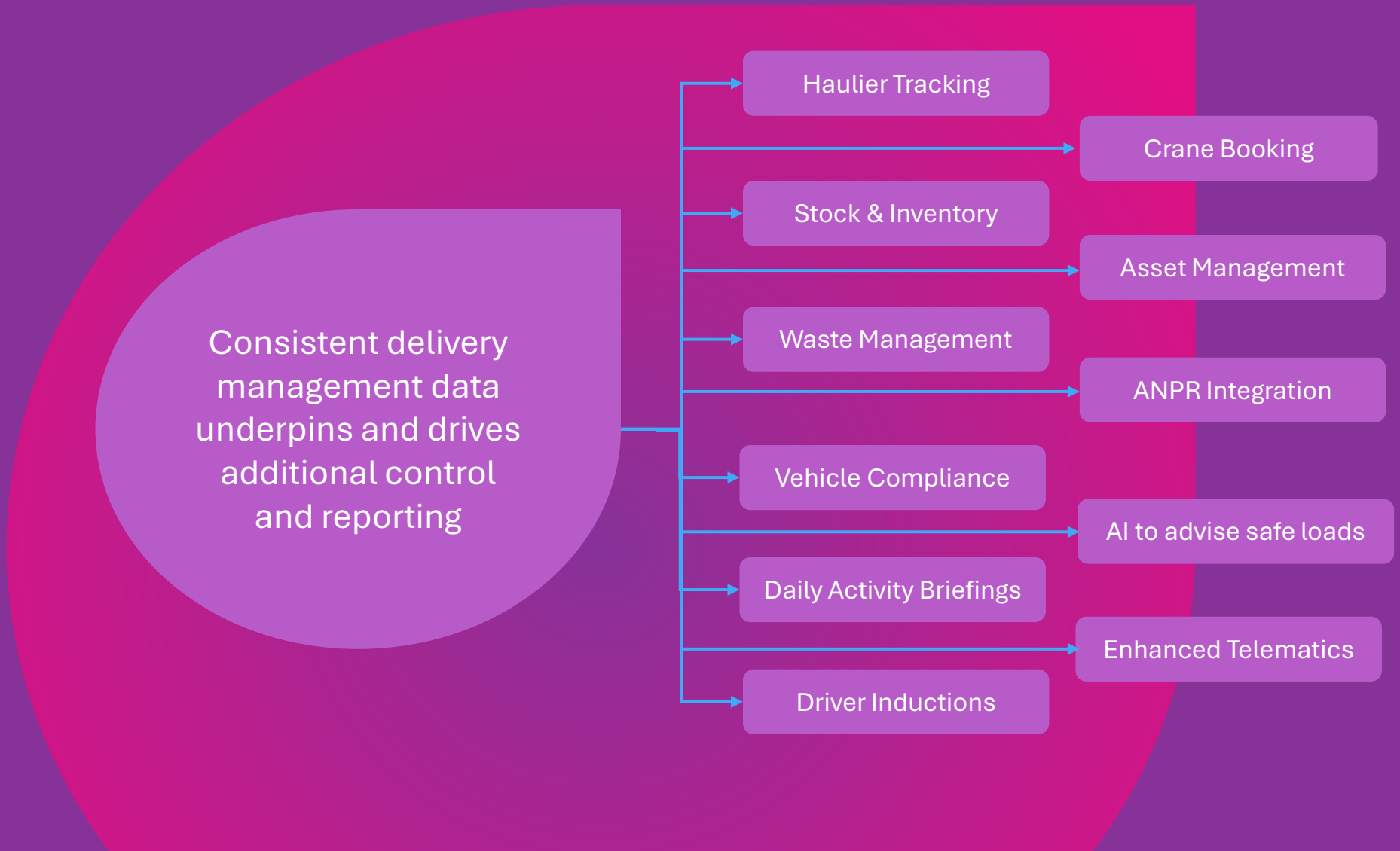
Sydney Metro West (Australia) $17bn

Gatwick Airport (UK)

Live Data Impacting Programme Certainty



Opportunity to Impact Site Wide



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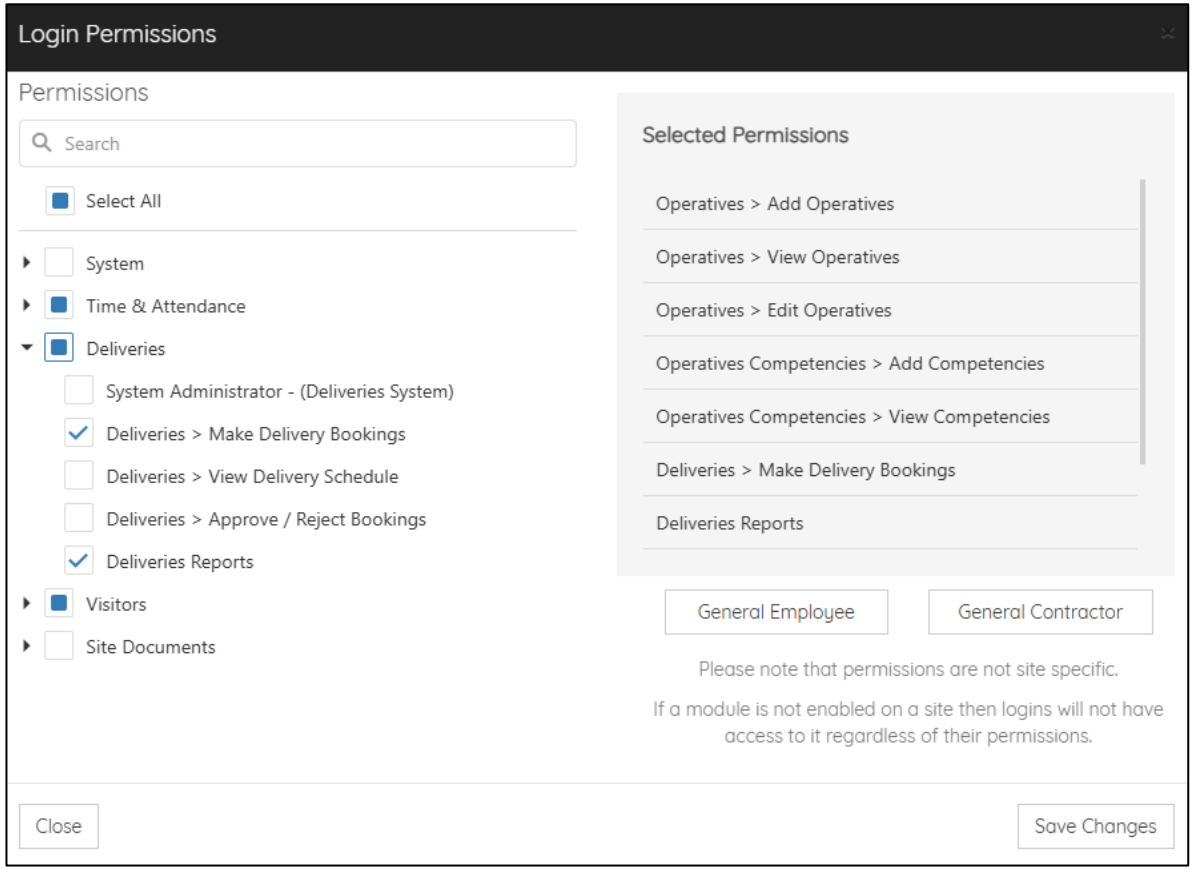
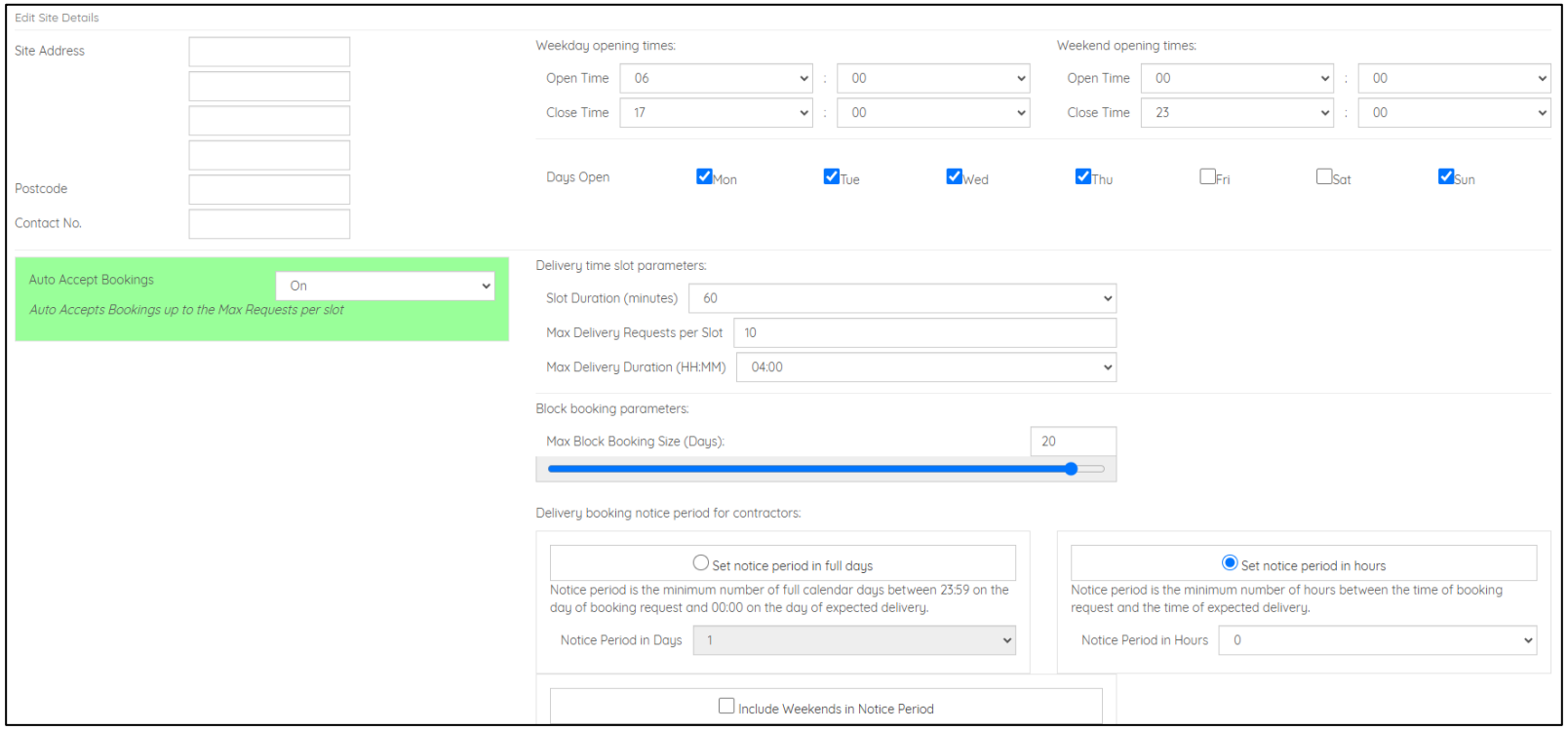
Importance of Day to Day, Flexible Control

Impacting Across the Supply Chain



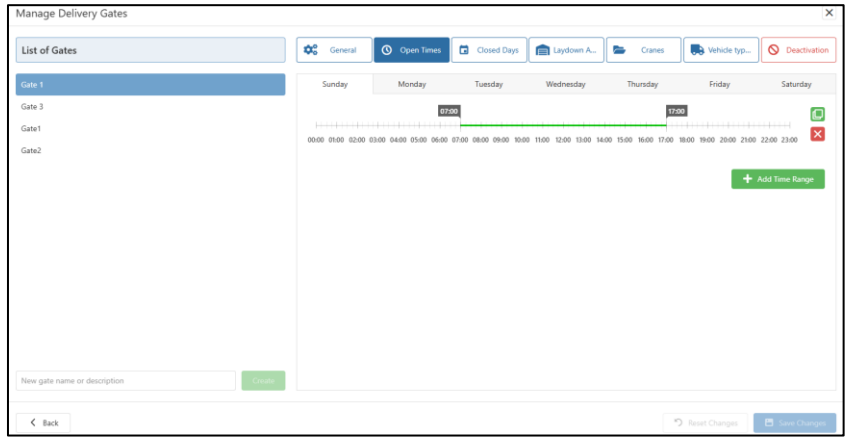
- Crucial that the system and bookings are available across the supply chain at the outset. Ensure immediate buy in.
- Permission levels should be defined and controlled via high level admin to create logical separation.
- The right setup and configuration means suppliers see clear benefit and ultimately drive the system at peak.
- Ultimately suppliers see optimised route, clear compliance requirements, safe unloading and time savings.
- All reportable & evidenced.

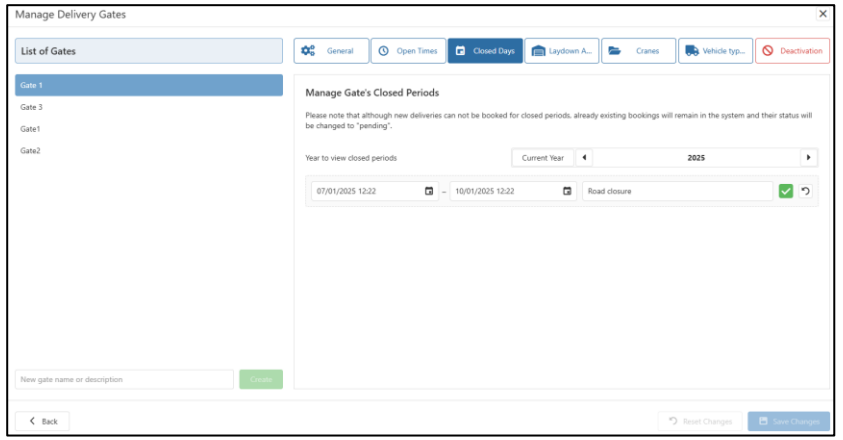
Day to Day Control at Site Level

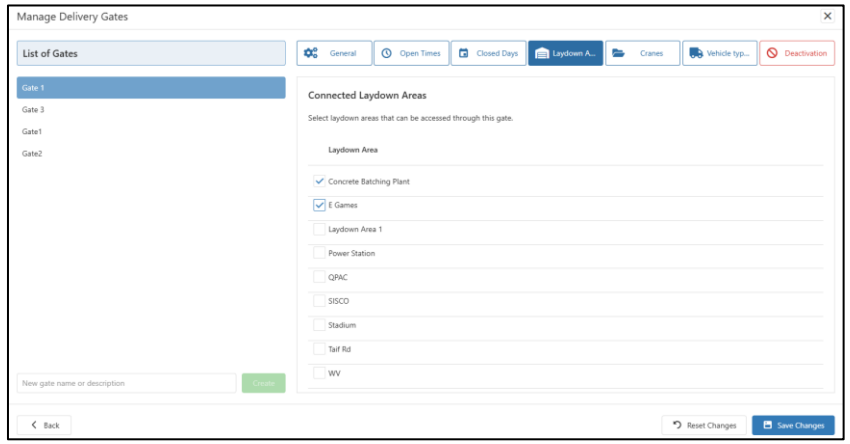


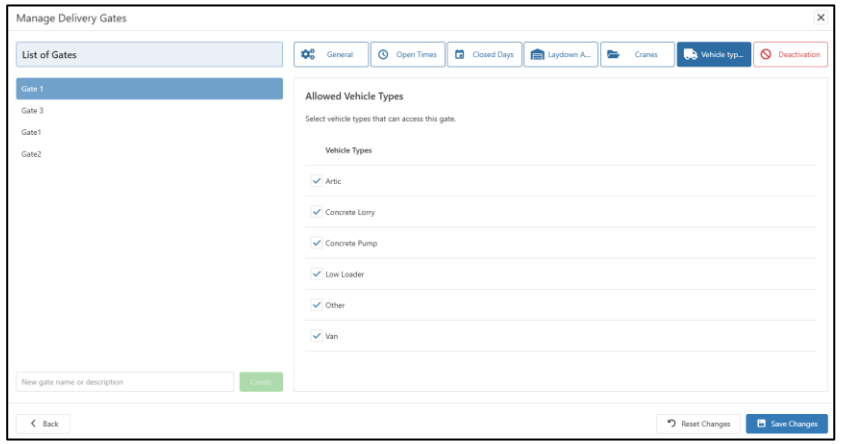
- Project Management teams also need complete confidence from the outset – but programmes change, constantly.
- Crucial therefore that a local or central champion is able to dynamically manage all gates, opening times, durations etc.
- When change happens any impacted deliveries should be automatically communicated.
- Ensures daily operational control with flexibility; suppliers buy in as communication is clear.

Flexible Control at Every Gate







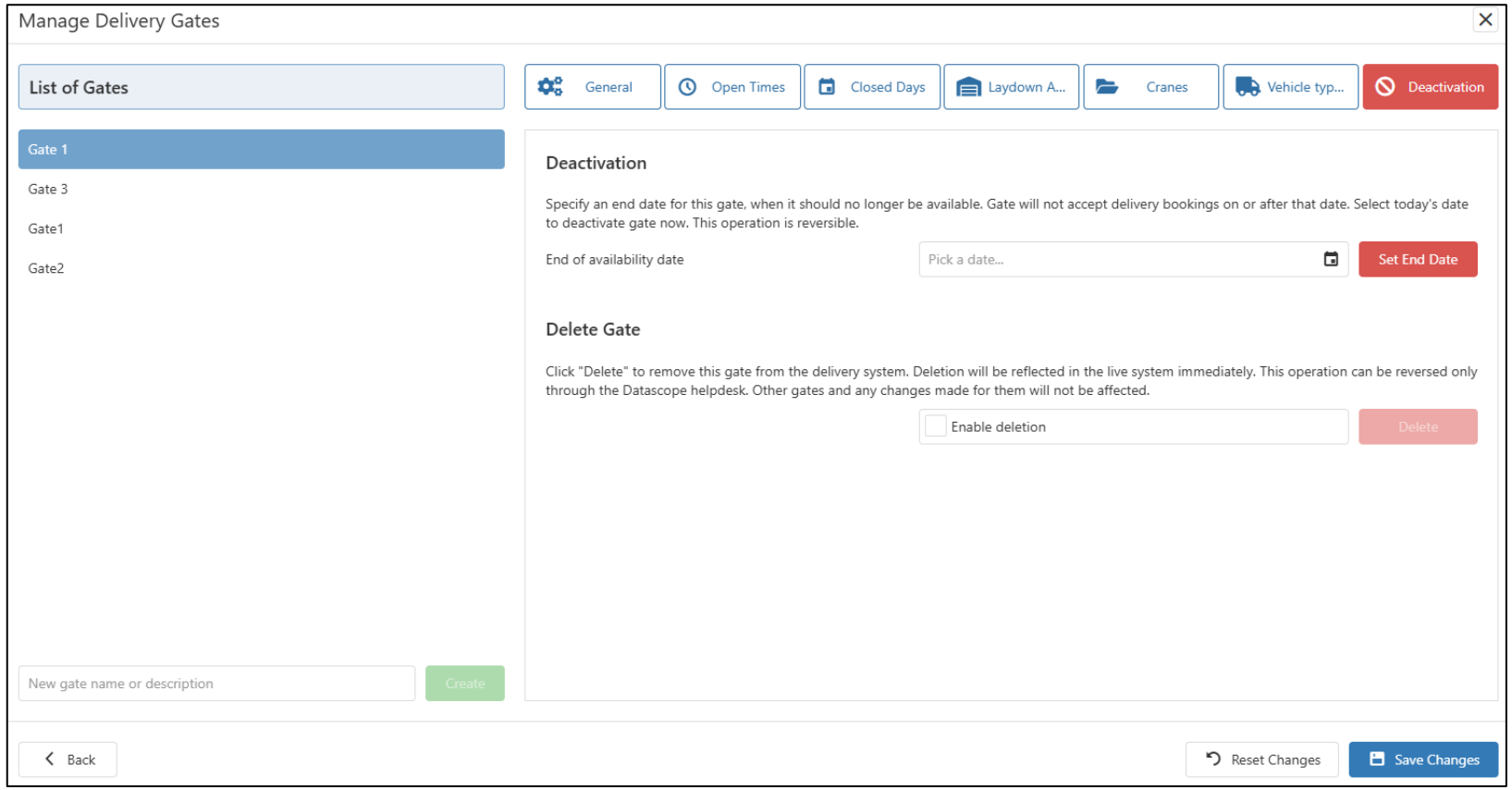


Control needs to be replicated at every gate but changes have to be immediate:

- Directions & naming
- Open & close times
- Laydown areas
- Resources for unloading
- Authorised cranes
- Authorised vehicle types

With a digitised system any changes are automatic and communicated to any user impacted by change.

Managing Peak & Beyond: Deactivation



- Digitisation means you can plan ahead and create certainty for supply chain.
- Gates should have a pre-determined deactivation date from the outset.
- Should link the logistics plan with peak forecast and projected end dates.
- Suppliers cannot impact the system with false bookings.
- Project schedule then drives delivery schedule.

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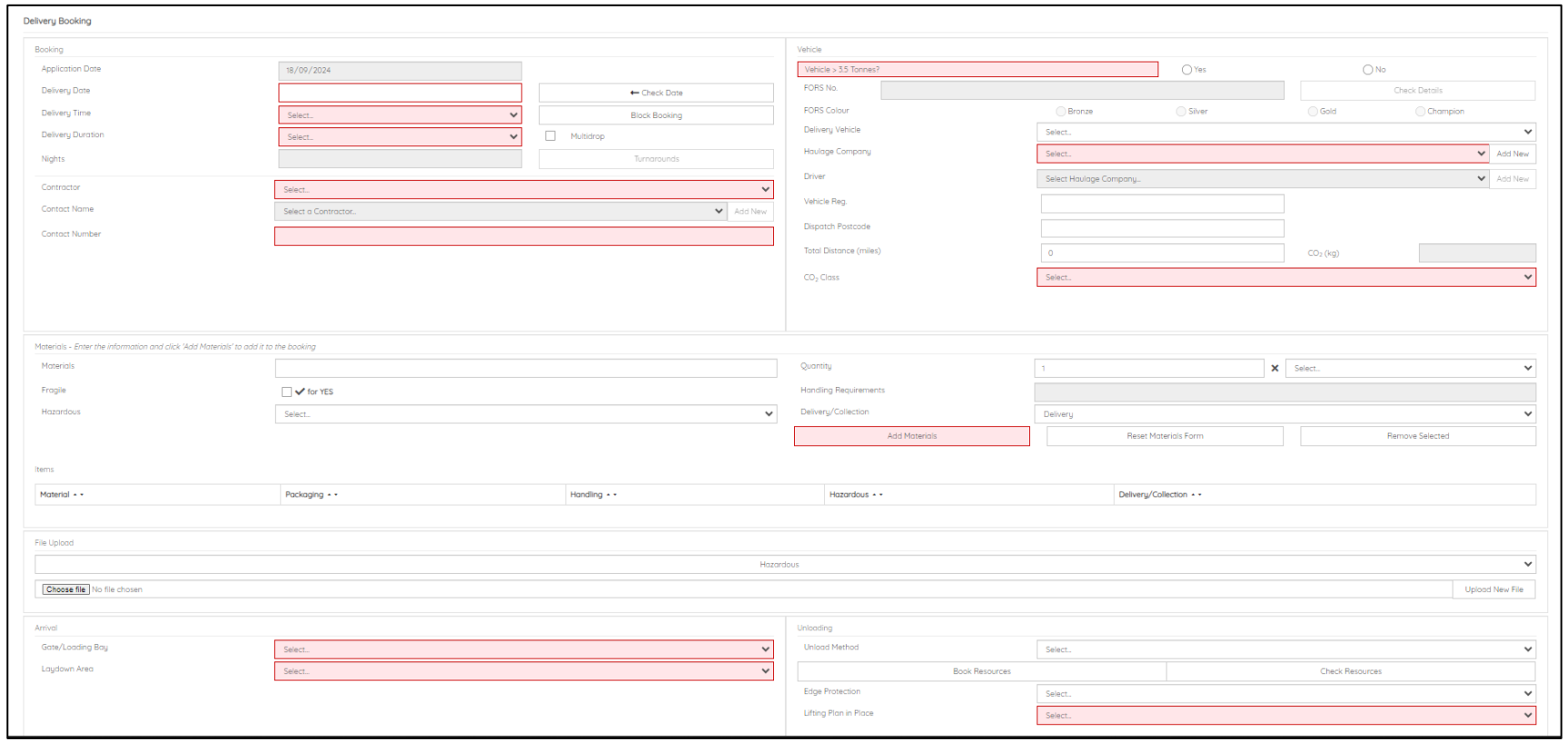
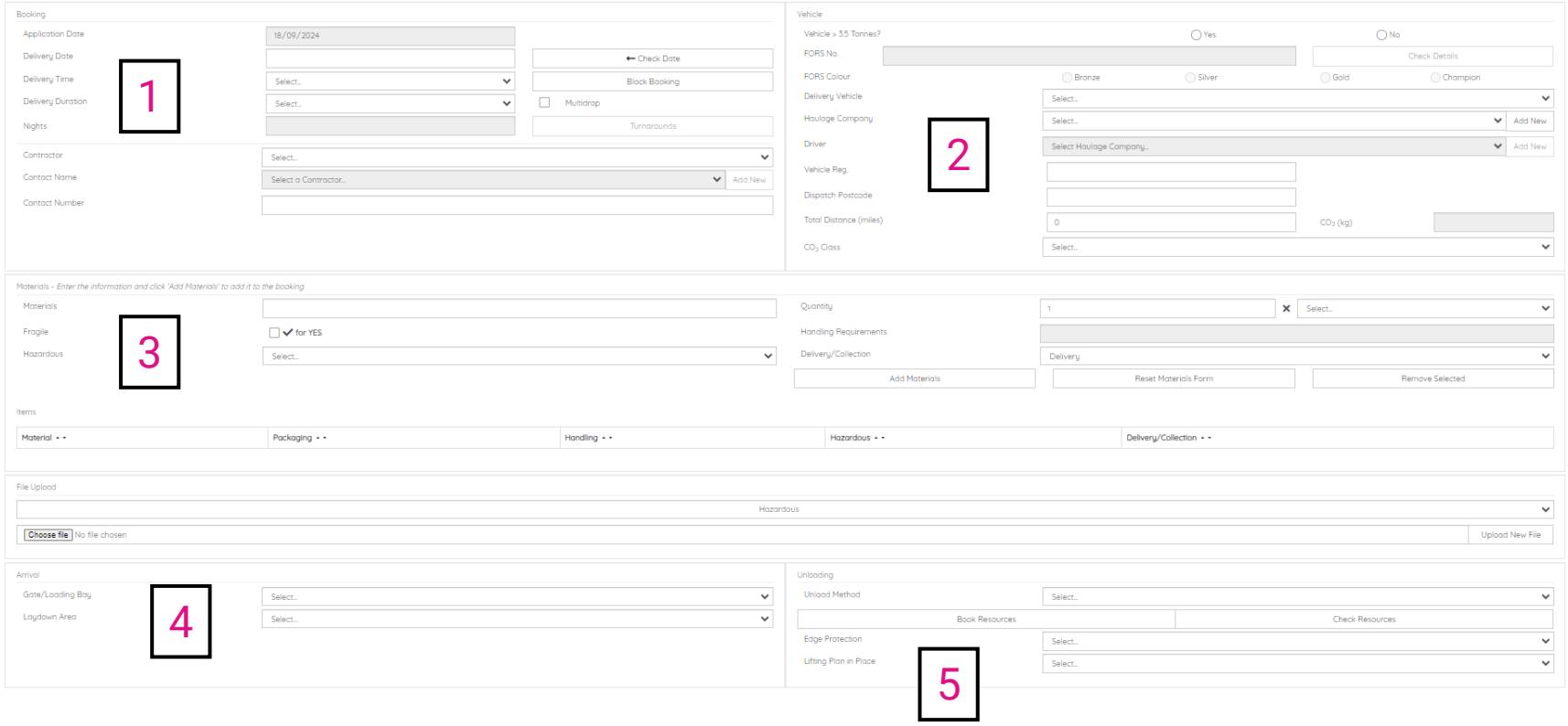
Intuitive Bookings,
Scalable & Specific

Intuitive not Static Bookings



- Digitisation brings predictability. Data entered once then used often. Builds trust and drives certainty.
- Supplier, hauliers, vehicles, drivers and more can be linked from the outset.
- Bookings are then dynamic, not repetitive. Minimum requirements are set for further flexibility.
- Available slots are live and notice periods are set so certainty is achieved.
- Also the start of sustainability reporting through linked data sets, meaning minimum input from supply chain.

Bookings are Scalable & 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.

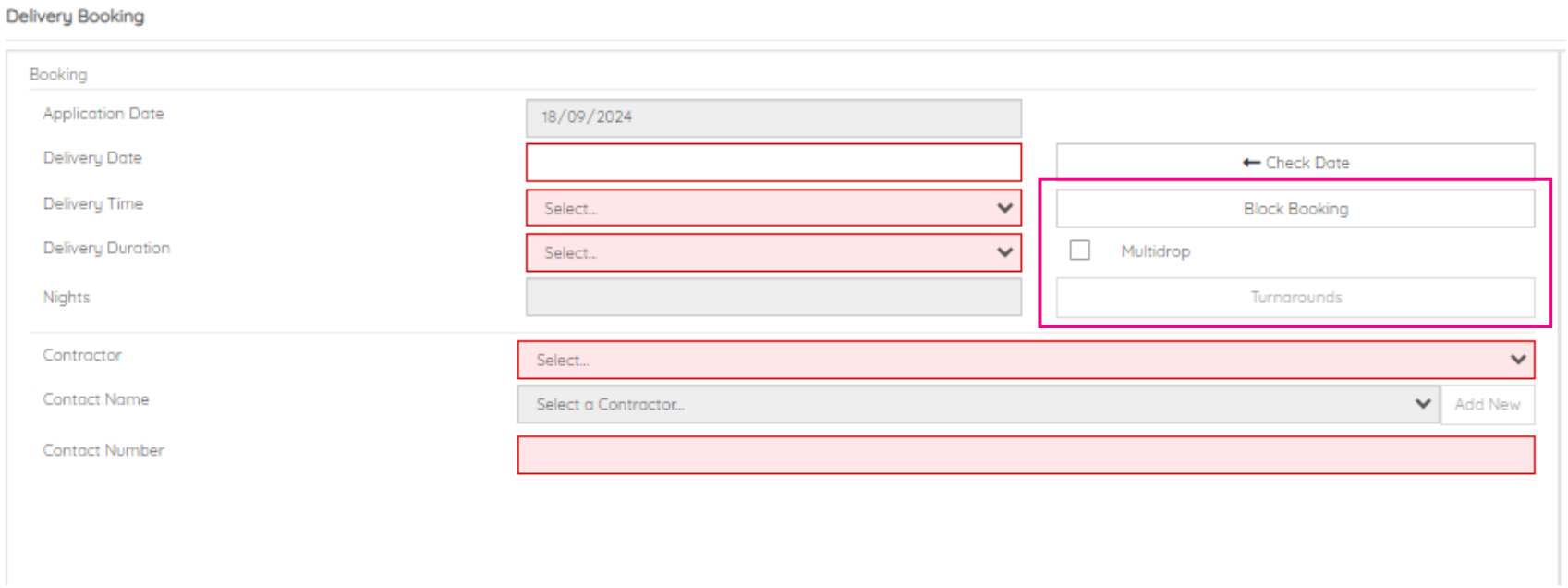
4. Arrival

Ability to select gate or loading bay with laydown area

5. Unloading

Method, resources, edge protection and lifting plan

Repeat Activity Captured & Controlled

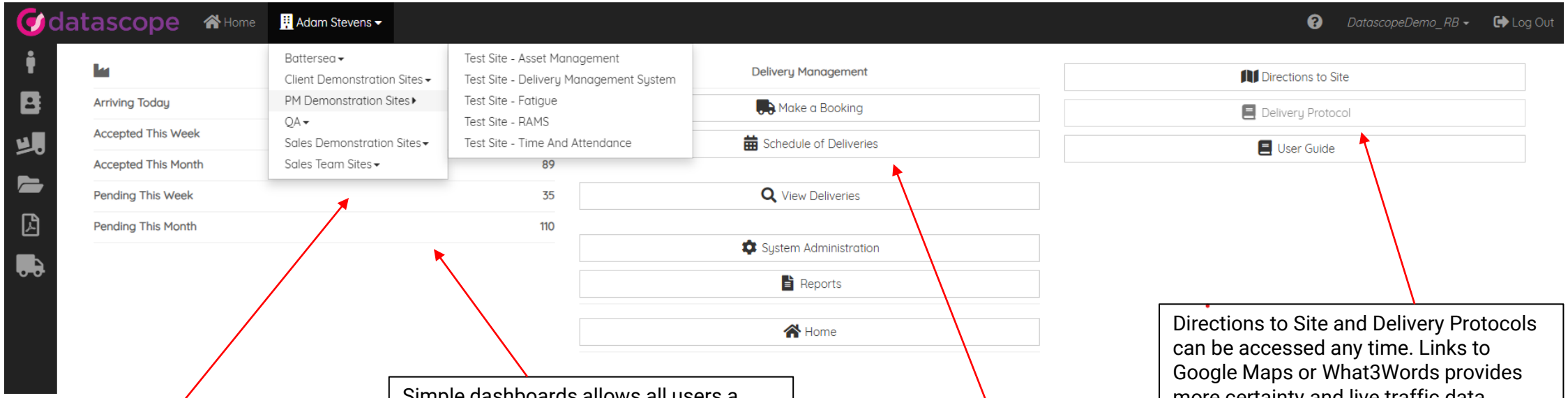


- Digitisation also means suppliers are able to

1. Schedule block bookings
2. Set multidrop
3. Create turnarounds

- Further reduces administration for all users
- Login permissions and system settings manage out abuse
- Progress through gates and site is quicker and safer

System Infrastructure Drives Further Support



Each project or site is easily accessible through a simple drop down. Suppliers can toggle between bookings quickly.

Simple dashboards allows all users a quick and logical snapshot of live site activity as they log in to the system.

Digitisation means all users can view a live delivery schedule at any time. Sites are never overloaded, routes are optimised.

Directions to Site and Delivery Protocols can be accessed any time. Links to Google Maps or What3Words provides more certainty and live traffic data.

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Safety First Culture & Supplier Management

Safe Access to Key Data

- Gates, access & egress points and laydown areas can be hostile environments with increased risk and quickly changing impact from external, unplanned factors.
- However, the ultimate success of the system lies in the hands of the team that is appointed to manage vehicles and their deliveries on and off the project.
- **Digitisation here therefore should be safety focused, first and foremost.**
- People need simple, clear information & instructions to drive deliveries to their point of unloading and through to exit.
- However, these teams also need the ability to influence these bookings and capture compliance and discrepancies.
- Dedicated, smart devices enable this. Each separate booking is treated on its own merits and planned deliveries can be accepted in less than 20 seconds.

Planned Deliveries Accepted & Onsite in 20 Seconds

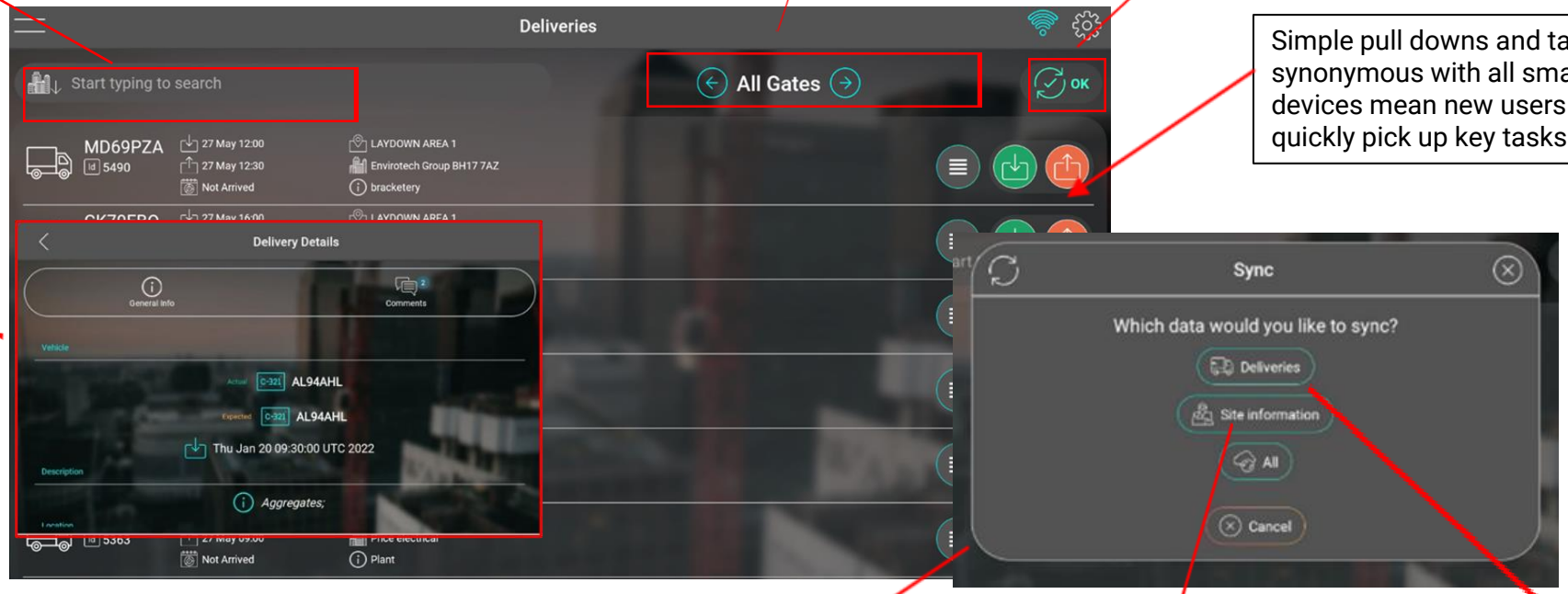
Users can quickly search for a specific delivery by simple booking ID, haulage company or vehicle registration

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

Global sims ensure certainty for the users.

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

Key delivery details are instantly available.



Line items by delivery are summarised, not complicated.

Live site information allows drivers to be updated with clear instructions

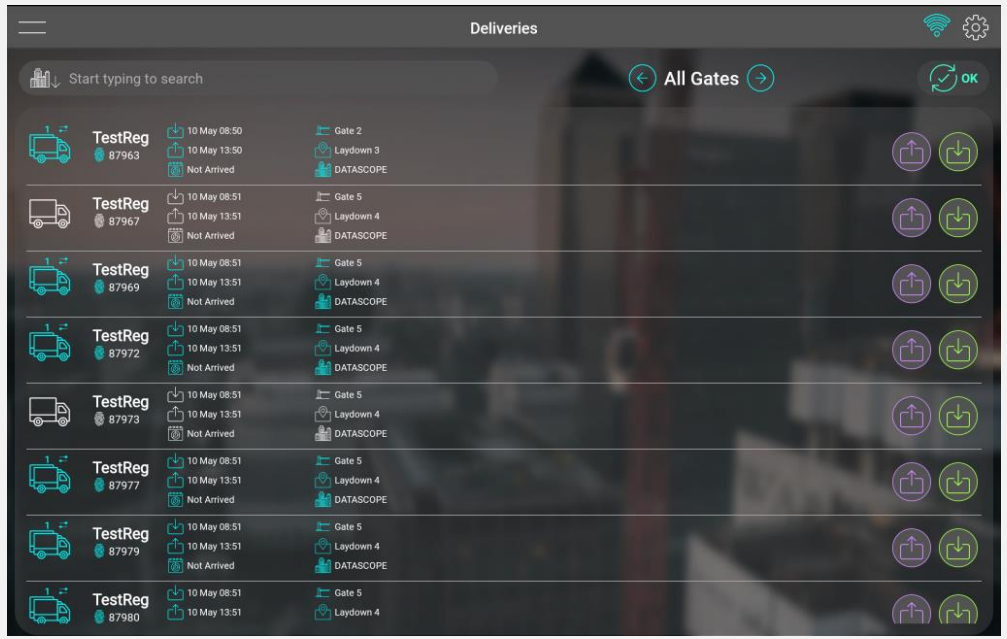
Changes can be captured without loss of original booking data.

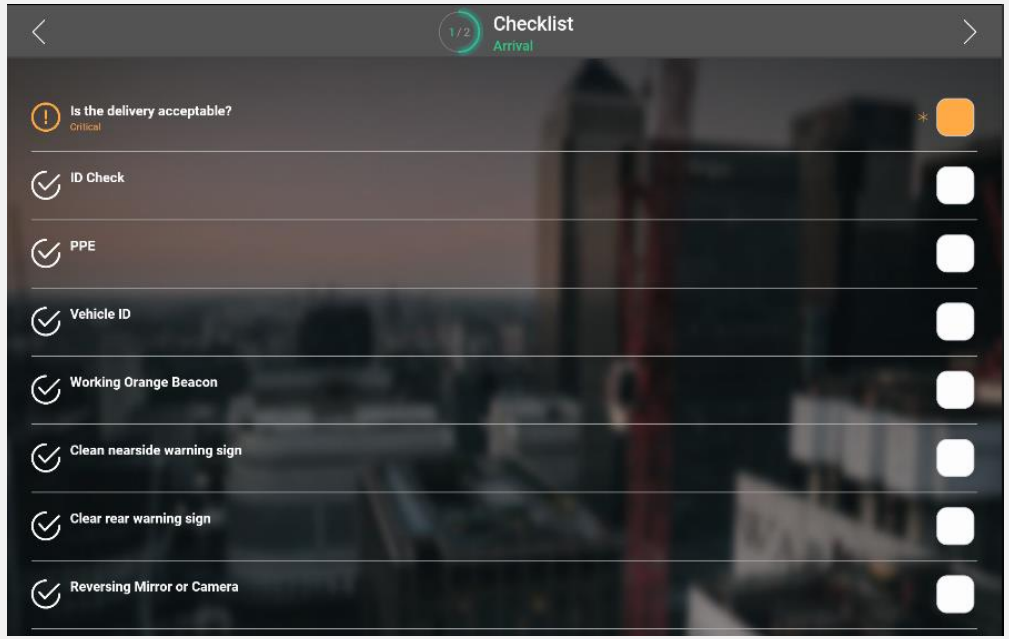
Checklists for Every Booking

Digitisation allows every vehicle, driver and load to be managed in a clear and consistent manner via stipulated checklists.

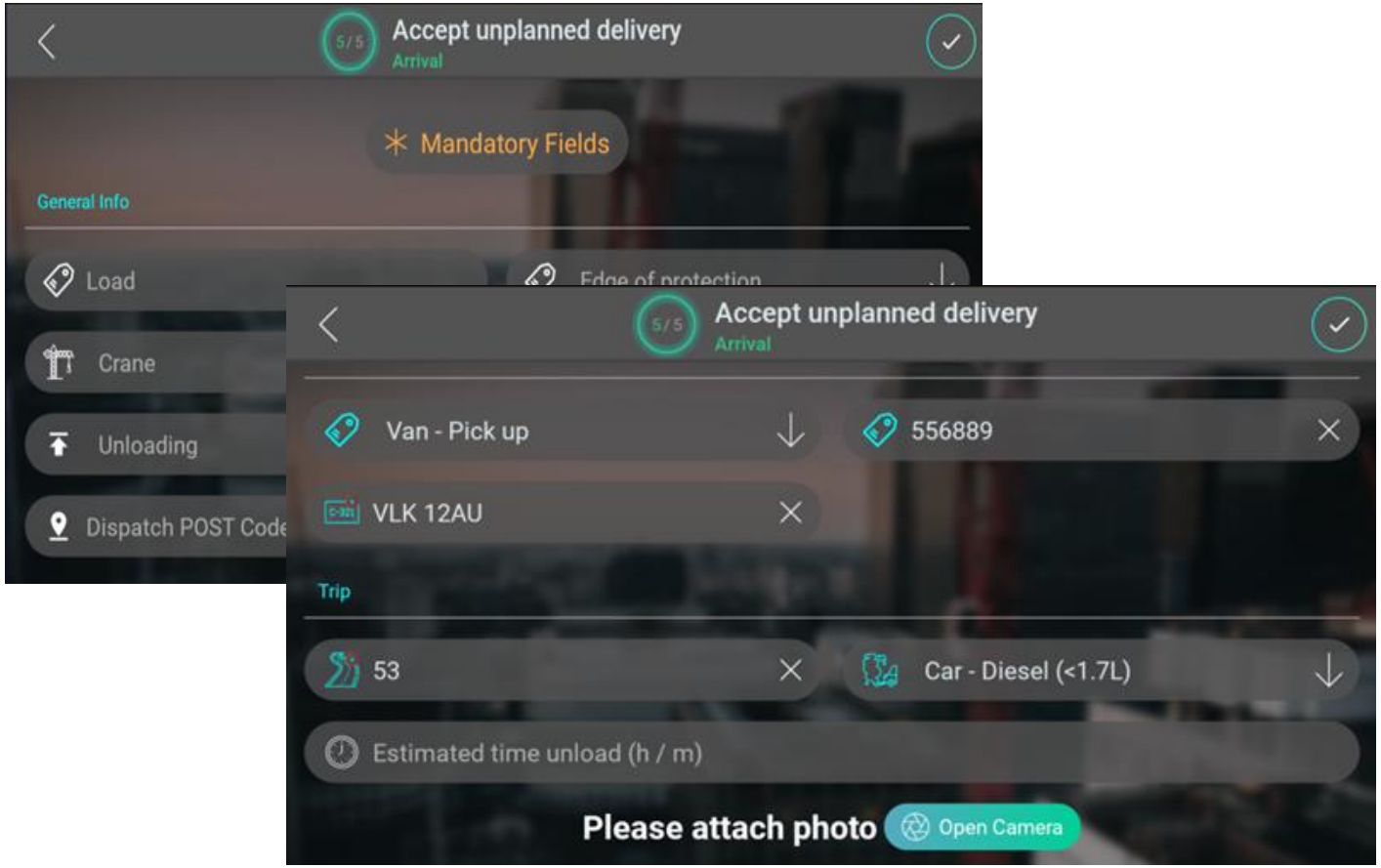
CLOCS can be quickly and easily adopted, with push & pull reporting, dashboards and API feeds driving certainty.

- Data capture as stipulated at every access point, exit and vehicle holding area.
- Multi-drop deliveries, muck aways and unplanned deliveries are not lost but logically separated.
- Deliveries are colour coded to indicate whether they are on time, late, or a multi-drop delivery.
- Deliveries can be dynamically managed by gate, booking ID, supplier and/or arrival time.
- As all data is captured live, the Delivery Management System can alert automatically via email, SMS or WhatsApp.





Appropriate Management of Unplanned Deliveries



Digitisation does not mean behaviours are changed immediately but it does enable and drive this change.

Management of unplanned deliveries is the clearest example. At the outset of adoption, hauliers and contractors may not book in advance.

With this in mind, the site team also need a way of processing these deliveries, capturing key information without increased risk.

Smart devices allow this and – where accepted – allow access within 60 seconds.

As the project matures, this behaviour can be managed and adoption typically increases from 50% to 90%+.

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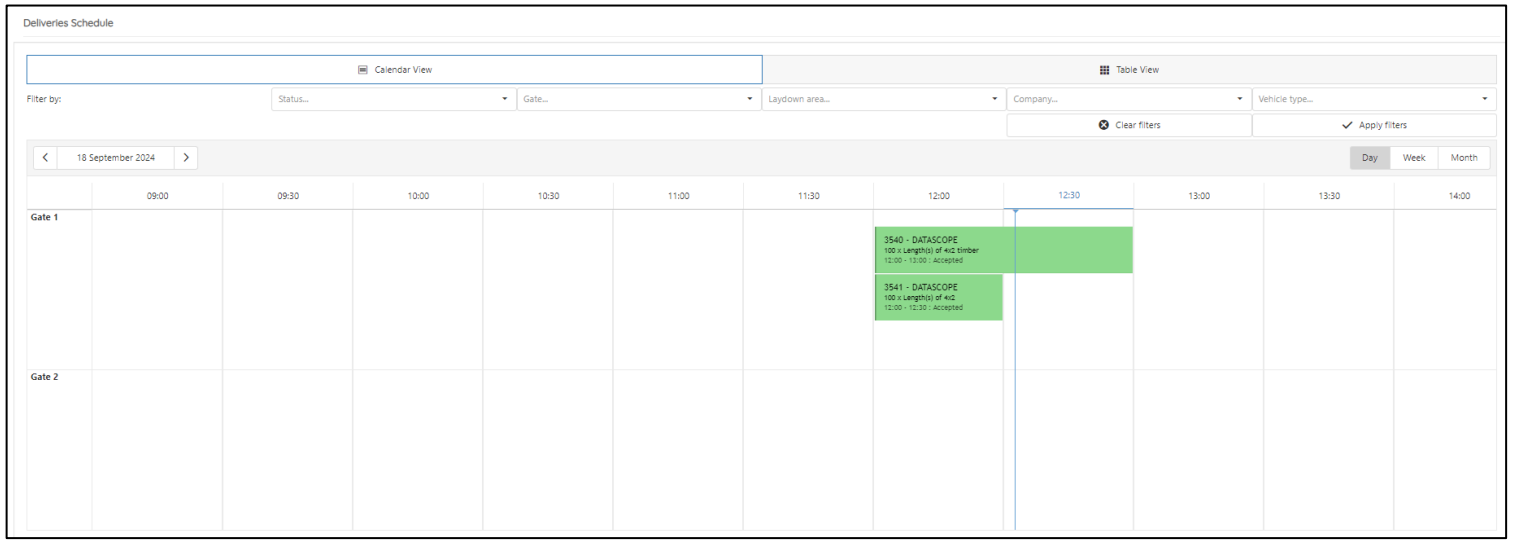
Cost Saving via Event Control & Trend Analysis

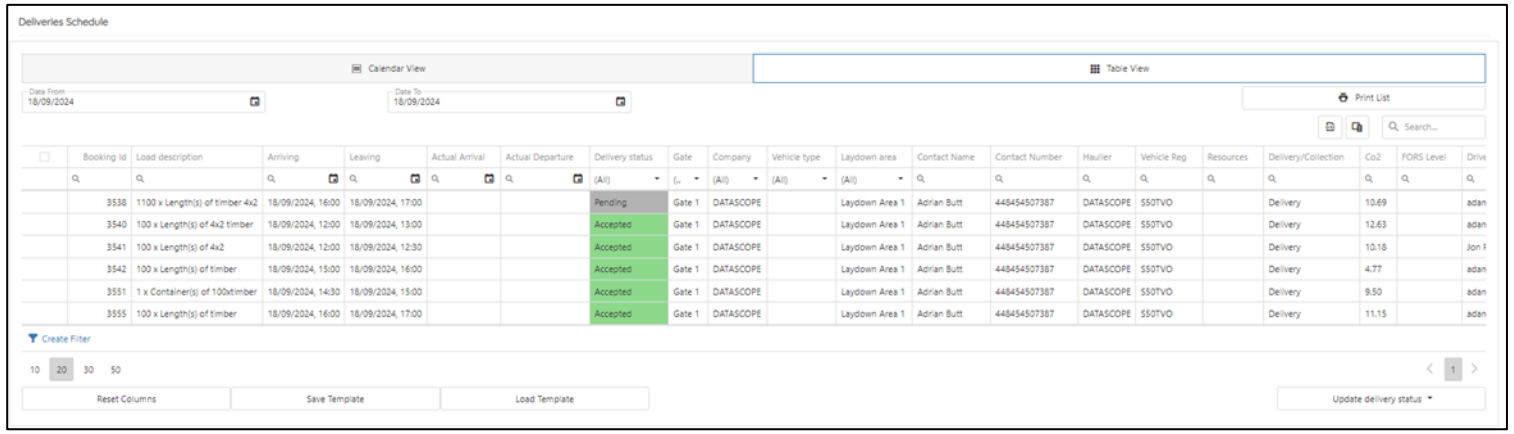
Every Delivery Accessible Immediately



Digitisation allows every administrator to view all planned deliveries immediately in different views to suit the project.

Key information supplied at the time of booking is instantly accessible.

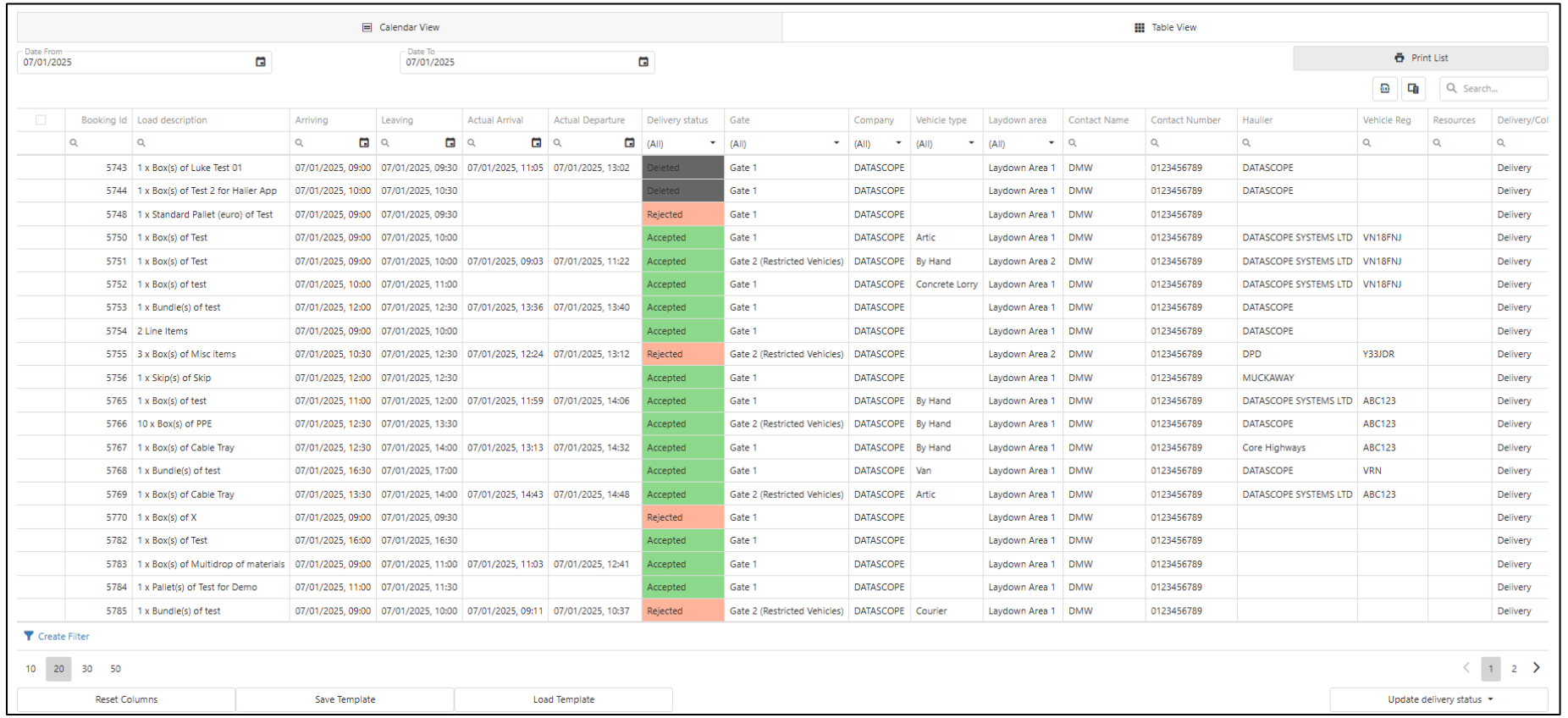
Deliveries can be quickly and easily moved around with supply chain notified automatically.



Project teams can view summary details quickly with the ability to drill down into accompanying information quickly.

Users not working in the system day by day can view live data pertinent to programme and schedule.

Daily Analogue Schedules



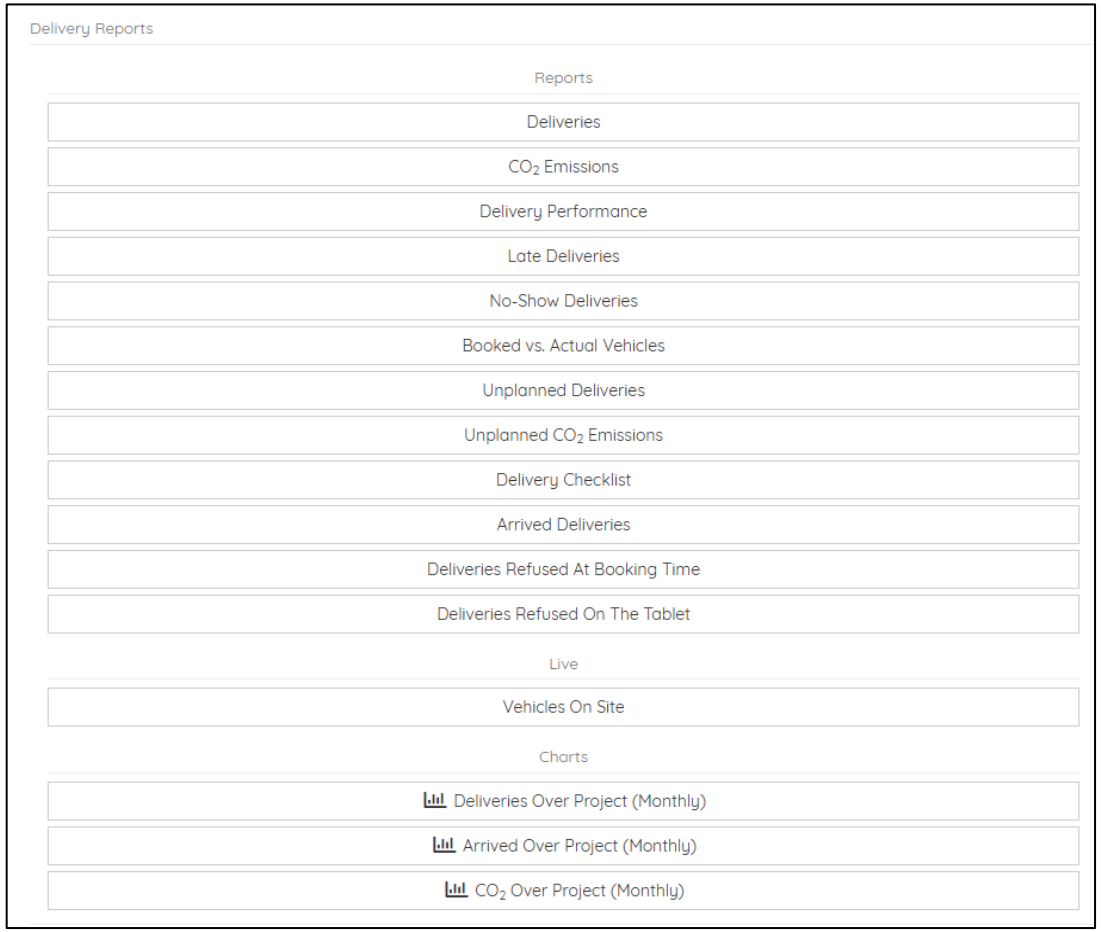
Booking Id	Load description	Arriving	Leaving	Actual Arrival	Actual Departure	Delivery status	Gate	Company	Vehicle type	Laydown area	Contact Name	Contact Number	Haulier	Vehicle Reg	Resources	Delivery/Col
5743	1 x Box(s) of Luke Test 01	07/01/2025, 09:00	07/01/2025, 09:30	07/01/2025, 11:05	07/01/2025, 13:02	Deleted	Gate 1	DATASCOPE		Laydown Area 1	DMW	0123456789	DATASCOPE			Delivery
5744	1 x Box(s) of Test 2 for Haller App	07/01/2025, 10:00	07/01/2025, 10:30			Deleted	Gate 1	DATASCOPE		Laydown Area 1	DMW	0123456789	DATASCOPE			Delivery
5748	1 x Standard Pallet (euro) of Test	07/01/2025, 09:00	07/01/2025, 09:30			Rejected	Gate 1	DATASCOPE		Laydown Area 1	DMW	0123456789				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	DMW	0123456789	DATASCOPE SYSTEMS LTD	VN18FNJ		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, 11:22	Accepted	Gate 2 (Restricted Vehicles)	DATASCOPE	By Hand	Laydown Area 2	DMW	0123456789	DATASCOPE SYSTEMS LTD	VN18FNJ		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	DMW	0123456789	DATASCOPE SYSTEMS LTD	VN18FNJ		Delivery
5753	1 x Bundle(s) of test	07/01/2025, 12:00	07/01/2025, 12:30	07/01/2025, 13:36	07/01/2025, 13:40	Accepted	Gate 1	DATASCOPE		Laydown Area 1	DMW	0123456789	DATASCOPE			Delivery
5754	2 Line Items	07/01/2025, 09:00	07/01/2025, 10:00			Accepted	Gate 1	DATASCOPE		Laydown Area 1	DMW	0123456789	DATASCOPE			Delivery
5755	3 x Box(s) of Misc items	07/01/2025, 10:30	07/01/2025, 12:30	07/01/2025, 12:24	07/01/2025, 13:12	Rejected	Gate 2 (Restricted Vehicles)	DATASCOPE		Laydown Area 2	DMW	0123456789	DPD	Y33JDR		Delivery
5756	1 x Skip(s) of Skip	07/01/2025, 12:00	07/01/2025, 12:30			Accepted	Gate 1	DATASCOPE		Laydown Area 1	DMW	0123456789	MUCKAWAY			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	DMW	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	By Hand	Laydown Area 1	DMW	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	DMW	0123456789	Core 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	DMW	0123456789	DATASCOPE	VRN		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	DMW	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	DMW	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	DMW	0123456789				Delivery
5783	1 x Box(s) of Multidrop 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	DMW	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	DMW	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	DMW	0123456789				Delivery

In the early stages of adoption logistics and gate teams often like to work with printed delivery schedules.

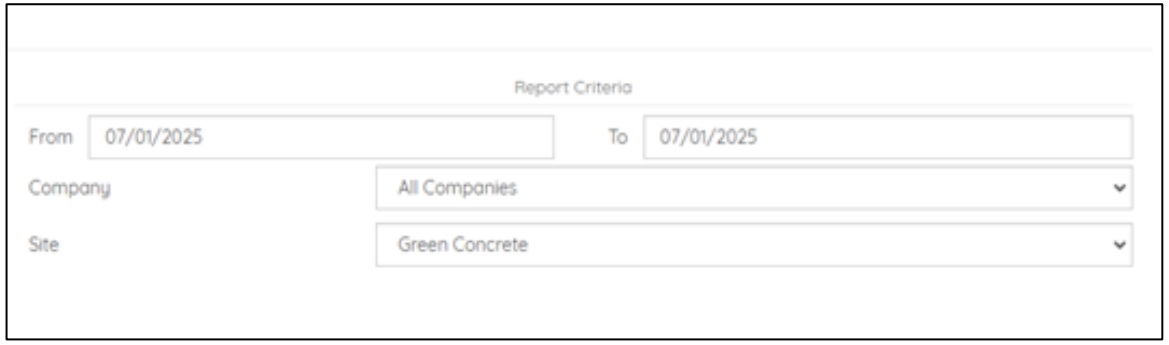
Digitisation does not restrict this, with the capability available from a simple command.

Key data scaled to be easily absorbed in differing construction environments.

Flexible Reporting Impacting at all Levels



Digitisation means any data captured can be reported. Set templates mean reports can be scheduled in advance or pulled from the system as needed. Report building tools mean any user can draw data from the system without the input of an administrator. API feeds drive data at a macro level into common data environments where the application of AI can directly impact work winning.



Delivery Performance Changing Behaviour

Export To csv (standard for spreadsheet programs) Export

Delivery Performance Between: 07/01/2025 and: 07/01/2025 **Generated At: 07/01/2025 12:28:01 (GMT)**

Ref Code	Time Of Delivery	Duration	Actual Delivery Time	Actual Departure Time	Time Spent On Site	Company	Delivery Vehicle Type	Description of Load	Delivery Result	CO_2 (kg)
5750	07/01/2025 09:00:00	01:00				DATASCOPE	Artic	1 x Box(s) of Test	On Time	0.00
5754	07/01/2025 09:00:00	01:00				DATASCOPE		120 x Length(s) of Timber 1 x Box(s) of Fixings	On Time	0.00
5783	07/01/2025 09:00:00	02:00	07/01/2025 11:03:24	07/01/2025 12:41:21	01:37	DATASCOPE		1 x Box(s) of Multidrop of materials	LATE	0.00
5752	07/01/2025 10:00:00	01:00				DATASCOPE	Concrete Lorry	1 x Box(s) of test	On Time	0.00
5765	07/01/2025 11:00:00	01:00	07/01/2025 11:59:02	07/01/2025 14:06:34	02:07	DATASCOPE	By Hand	1 x Box(s) of test	TIME EXCEEDED	0.26
5784	07/01/2025 11:00:00	00:30				DATASCOPE		1 x Pallet(s) of Test for Demo	On Time	0.00
5753	07/01/2025 12:00:00	00:30	07/01/2025 13:36:40	07/01/2025 13:40:11	00:03	DATASCOPE		1 x Bundle(s) of test	LATE	0.00
5756	07/01/2025 12:00:00	00:30				DATASCOPE		1 x Skip(s) of Skip	On Time	0.00
5794	07/01/2025 12:00:00	00:30				DATASCOPE	By Hand	1 x Box(s) of PPE	On Time	17.37
5767	07/01/2025 12:30:00	01:30	07/01/2025 13:13:45	07/01/2025 14:32:49	01:19	DATASCOPE	By Hand	1 x Box(s) of Cable Tray	On Time	142.69
5788	07/01/2025 14:30:00	00:30				DATASCOPE	Artic	1 x Box(s) of test vha	On Time	52.06
5782	07/01/2025 16:00:00	00:30				DATASCOPE		1 x Box(s) of Test	On Time	0.00
5768	07/01/2025 16:30:00	00:30				DATASCOPE	Van	1 x Bundle(s) of test	On Time	0.00
5751	07/01/2025 09:00:00	01:00	07/01/2025 09:03:47	07/01/2025 11:22:08	02:18	DATASCOPE	By Hand	1 x Box(s) of Test	TIME EXCEEDED	0.00
5766	07/01/2025 12:30:00	01:00				DATASCOPE	By Hand	10 x Box(s) of PPE	On Time	2.59
5769	07/01/2025 13:30:00	00:30	07/01/2025 14:43:28	07/01/2025 14:48:19	00:04	DATASCOPE	Artic	1 x Box(s) of Cable Tray	LATE	1.16
5786	07/01/2025 14:00:00	01:00				DATASCOPE	Van	1 x Box(s) of test	On Time	24.92

Every delivery accepted on site is measured against the booking parameters.

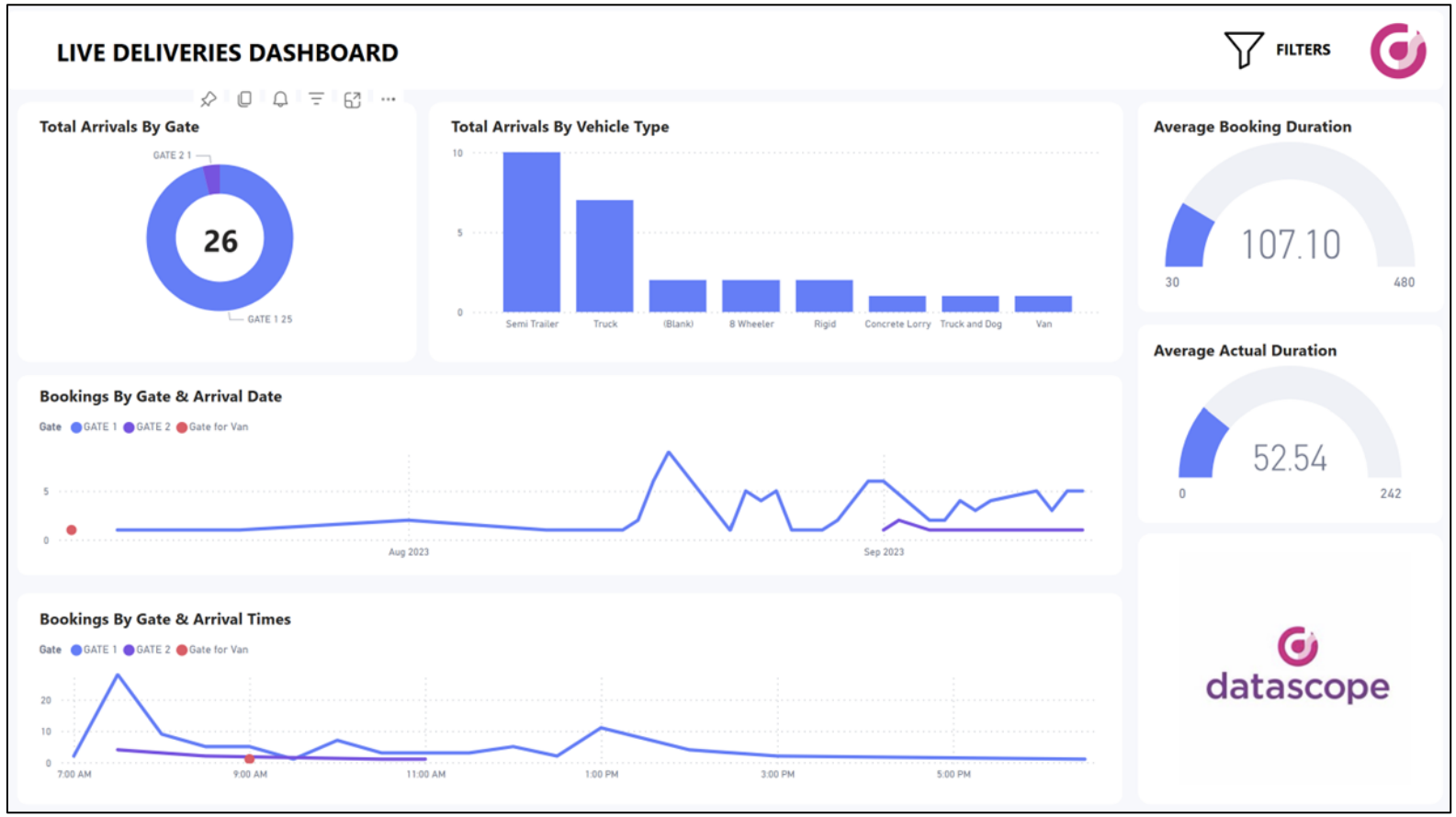
This comparison can then be used to challenge no shows, late arrivals, unplanned deliveries, lack of compliance etc.

Digitisation means supply chain and/or their hauliers can be worked with to change behaviour.

The majority of deliveries are then on time and safely unloaded with materials to the point of work as expected.

Supply chain see the benefit directly and peer to peer collaboration is enhanced.

Live Dashboards Impacting Project Teams

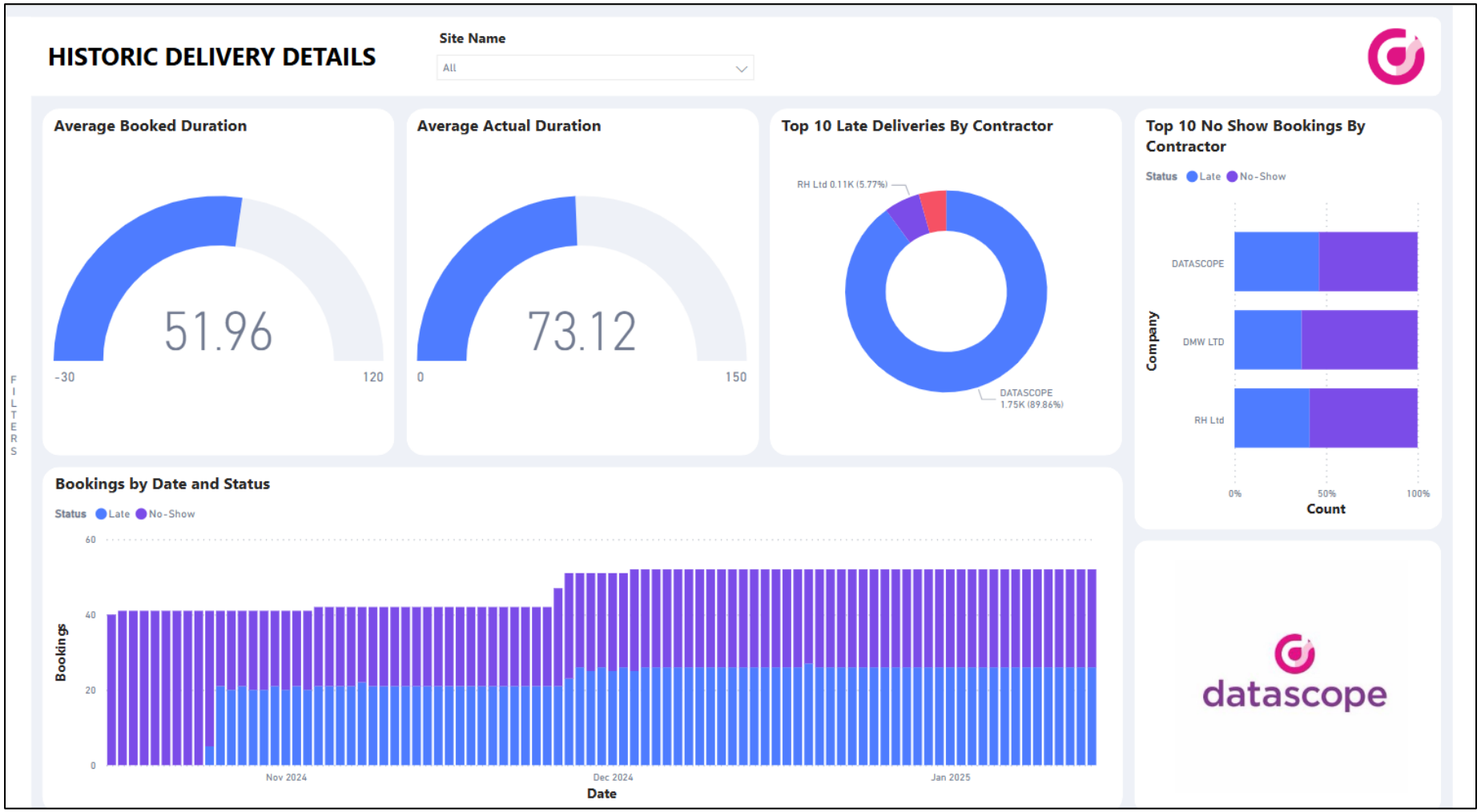


Project leaders often need an immediate wide-ranging view of their site. Digitisation of their deliveries reflected in live dashboards enables this and ensures buy in.

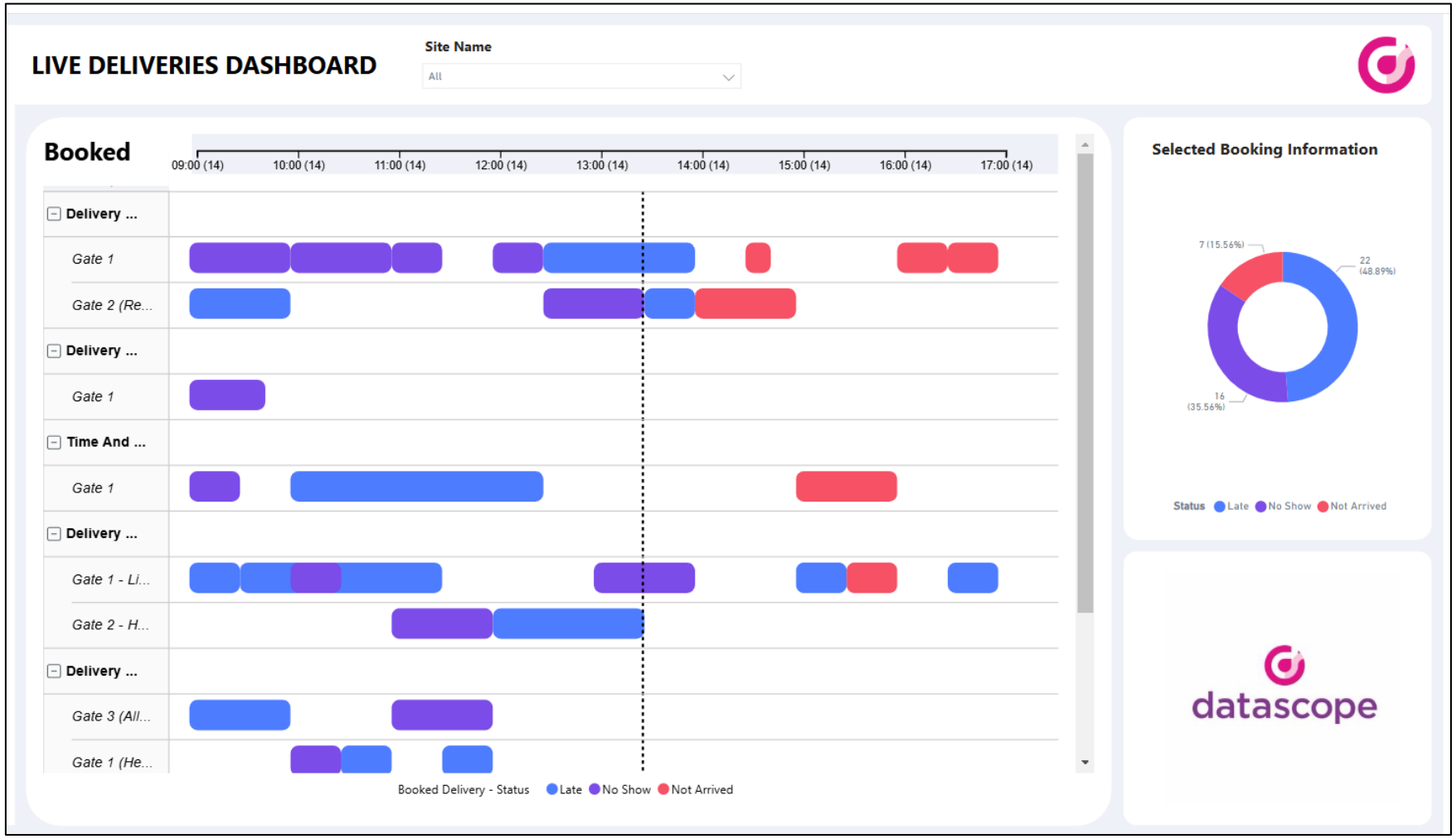
As with reports, digitisation means dashboards can be built to specific requirements from the outset of deployment.

As the project moves through its different phases, these can be built upon to reflect changes in programme, milestones etc.

Historic Delivery Impacting Planning



Live Deliveries to Identify and Utilise Gaps



Any Questions?

Richard Bailey
Director of Sales
richard.bailey@datascopesystems.com
+44 7730 522489
linkedin.com/in/rjbailey75

www.datascopesystems.com

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