

Site Dashboards

User Guide

Proprietary and Confidential

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Introduction

The Powerfleet Vision Pro Solution is a tool to help customers drive performance, value, and ROI of their fleet operations.

Site Dashboards

The Site Dashboards focus on key areas of the Vehicle Management Solution for the site you are logged into. This user guide includes the definitions of the items and how to interpret the data.

To access the Site Dashboard feature from the Home page:

1. Click Reporting drop down
2. Select Site Dashboards (feature must be licensed and your role must have access to see the menu option)



Safety Leaderboard

The Safety Leaderboard focuses on combining multiple safety-related data sets into a singular safety score for operators.

It is a means of determining who creates risk in the operating environment. Understanding the risk is critical to implementing continuous improvement. As outlined in the Human and Organizational Performance (HOP) thinking, where performance is influenced by interactions between people, processes, technology, and the environment. It emphasizes understanding these interactions rather than attributing failures solely to individual errors. Each category has a subset of score inputs with preconfigured rules. Scores are scaled over the selected period.

- Scores are 0 through 10 per category with 0 being the lowest score and 10 being the highest score
- Weights are in percentage where total for the category is 100%
- Drivers are excluded if total motion hours are less than one (1) hour per day
- Maintenance roles are excluded by default

Filters are available to refine the displayed results if desired.



Filters

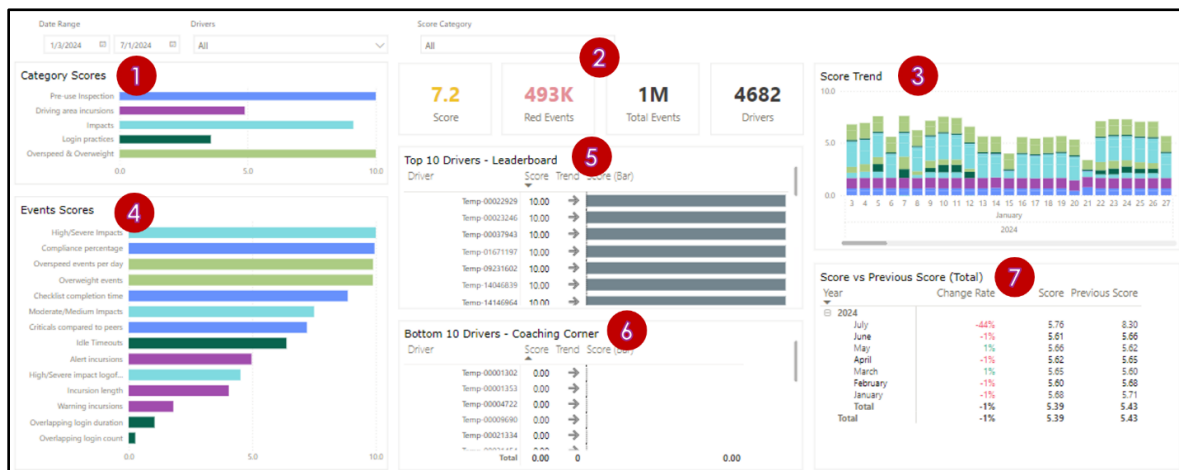
1. Date Range
2. Drivers
3. Score Category

Use the dropdowns to select date range, drivers and score categories to be displayed in the Safety Leaderboard.

Safety Leaderboard Details

The Safety Leaderboard includes the scoring data based on the filters defined. The scoring data includes:

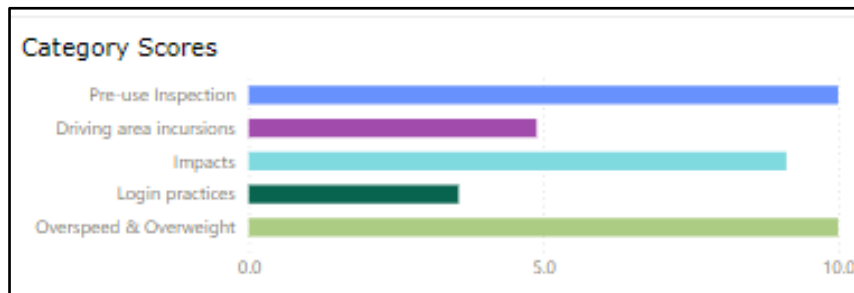
1. Category Scores
2. Score Summary
3. Score Trend
4. Event Scores
5. Top 10 Drivers
6. Bottom 10 Drivers
7. Score versus Previous Score (Total)





Category Scores

There are up to five (5) category scores that can be included for a site, and each category is made up of multiple events. The scores displayed are weighted scores for all drivers and data included in the filters.



Category	Description
Pre-use Inspection	Scores drivers based on activities related to checklists and inspection results.
Driving area incursions	Scores drivers based on activities related to the Pedestrian Proximity Detection incursion events.
Impacts	Scores drivers based on various levels of impacts and reactions to them.
Login practices	Scores drivers based on activities related to logging in and out of vehicles.
Overspeed & overweight	Scores drivers based on events related to speeding and maximum weight lifted

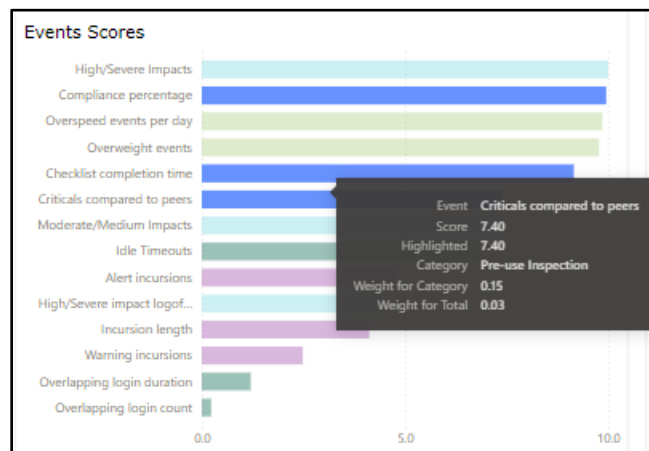
Clicking on any Category Score re-draws the remainder of the dashboard to highlight the events and scores related to just that category.



Event Scores

There are up to fourteen (14) event scores that can be included for a site. The scores displayed are weighted scores for all drivers and data included in the filters.

Mouse over an Event Score to see the details; Event name, Score, Highlighted, Category, Weight for Category and Weight for Total.



Event	Description
Event	Event name
Score	Total score for the applied filters
Highlighted	Score for any selected subset of data (e.g. if you select a driver the bar will show both the score and the highlighted score)
Category	Category the event belongs to
Weight for Category	Weight assigned for the event score within the category. (e.g. 0.15 means the event counts toward 15% of the category score)
Weight for Total	Weight assigned for the event score within the overall score (all categories together). For example, 0.03 means the event counts toward 3% of the total score)

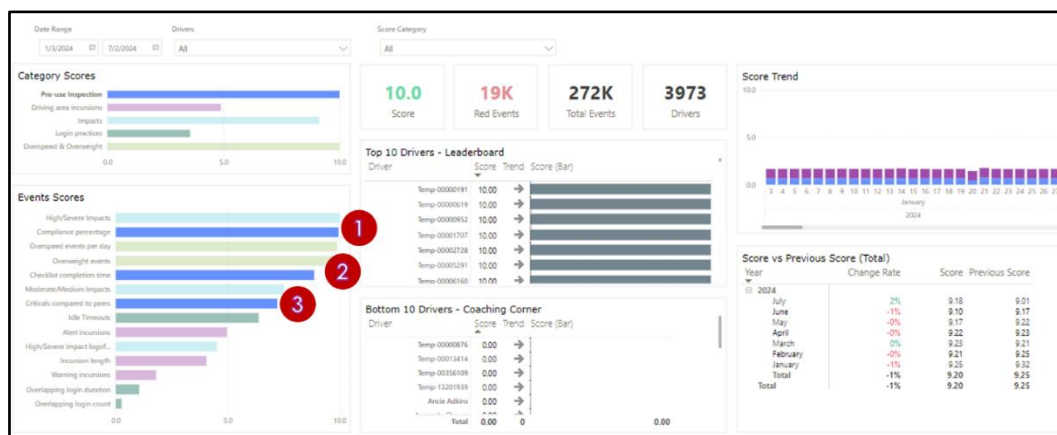


Pre-use Inspection (Driver Vehicle Inspection Report (DVIR))

Properly reading and comprehending each inspection criteria and performing an adequate evaluation is critical to the inspection's purpose: ensuring the driver is using a vehicle that is safe to operate. This score is based on determining if the driver took adequate time to perform their inspection, and if the resulting answer was accepted.

The Pre-use Inspection category includes the Event Scores:

1. Compliance percentage
2. Checklist completion time
3. Criticals compared to peers



Factor	Default Threshold	Score	Default Weight (Safety)	Default Weight (Category)
1. Compliance percentage	<75%	0	10%	50%
	≥75% and <90%	5		
	≥90%	10		
2. Average time to complete inspection checklist	≥90 seconds per question	10	5%	30%
	≥75 and <90 seconds	8		
	≥60 and <75 seconds	6		
	≥45 and <60 seconds	5		
	≥30 and <45 seconds	4		
	≥20 and <30 seconds	3		
	≥10 and <20 seconds	2		
	<10	0		
3. Critical responses per answers given (%) compared to all peers	≥70% and <130% variance to average	10	3%	20%
	<70% variance to average	7		
	≥130% variance to average	3		

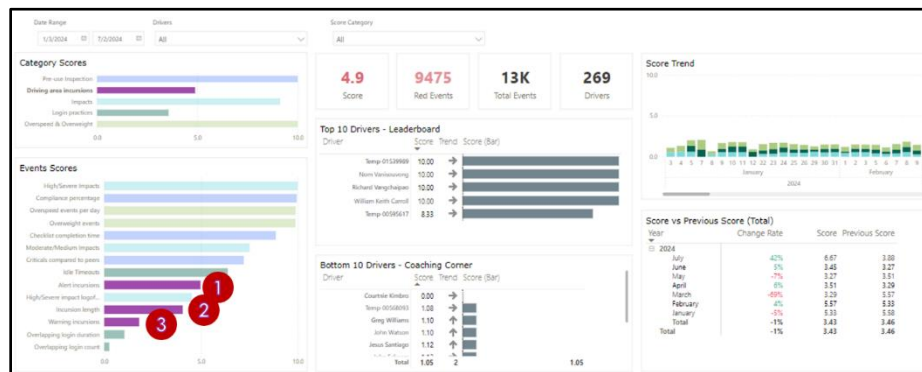


Driving Area Incursions

Incursions are defined as AI-identified objects in the direction of travel of the driver/vehicle from the Powerfleet Pedestrian Proximity Detection system. Incursions are not always a driver's fault, for example, a person could walk from behind a rack into the path of a driver. Incursion duration is an indication of how the driver reacted to the incursion. The longer the incursion lasts, the less likely the driver took evasive actions.

The Driving Area Incursions category includes the Event Scores:

1. Alert incursions
2. Incursion length
3. Warning incursions



Factor	Default Threshold	Score	Default Weight (Safety)	Default Weight (Category)
1. Alert incursions	<2 incursions per motion hour	10	12%	45%
	≥2 and <4 incursions per motion hour	7		
	≥4 and <6 incursions per motion hour	4		
	≥6 incursions per motion hour	0		
2. Average length of incursions	<2 seconds	10	12%	25%
	≥2 and <4 seconds	5		
	≥4 seconds	0		
3. Warning incursions	≥6 seconds	10	6%	30%
	≥6 and <8 incursions per motion hour	7		
	≥8 and <12 incursions per motion hour	4		
	≥12 incursions per motion hour	0		

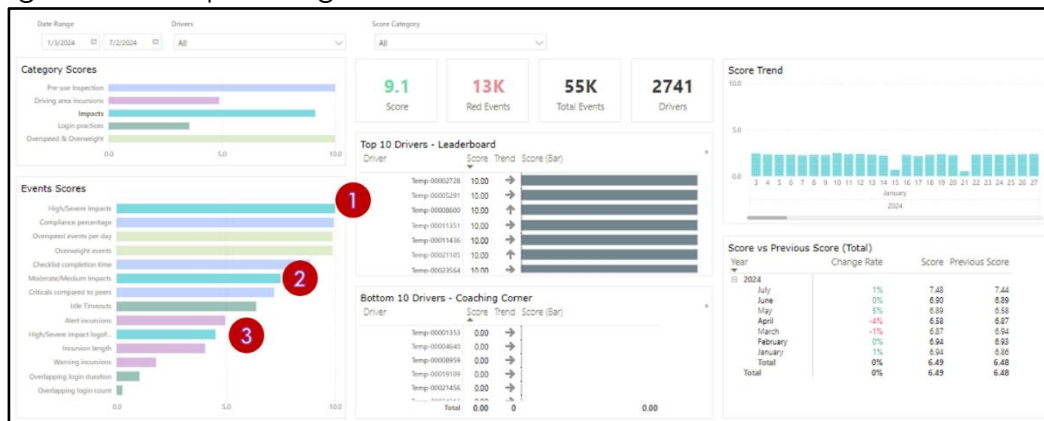


Impacts

Impacts are an indication of forces from accidents, facility issues, as well as aggressive driving behavior. Due to the complexity of vehicle types, tire types, travel surface conditions, etc., identifying events that truly contribute to damage (facility, vehicle, inventory, etc.) requires a sophisticated calibration and configuration scheme. The Powerfleet machine learning algorithm self-configures, self-calibrates, and categorizes impacts by five (5) levels of severity for isolating meaningful events from lesser concerning events while also painting a full picture of operating behavior comparatively.

The Impacts category includes the Event Scores:

1. High/Severe Impacts
2. Moderate/Medium Impacts
3. High/Severe Impact Logoff



Factor	Default Threshold	Score	Default Weight (Safety)	Default Weight (Category)
1. High and Severe impacts	<0.125 impacts per motion hour	10	13%	50%
	≥0.125 and <0.25 impacts per motion hour	7		
	≥0.25 and <0.5 impacts per motion hour	4		
	≥0.5 impacts per motion hour	0		
2. Moderate and Medium impacts	<1.25 impacts per motion hour	10	10%	30%
	≥1.25 and <2.5 impacts per motion hour	7		
	≥2.5 and <5 impacts per motion hour	4		
	≥5 impacts per motion hour	0		
3. Average time to log-off after high or severe impact	<15 seconds	10	7%	20%
	≥15 and <30 seconds	7		
	>30 seconds	3		

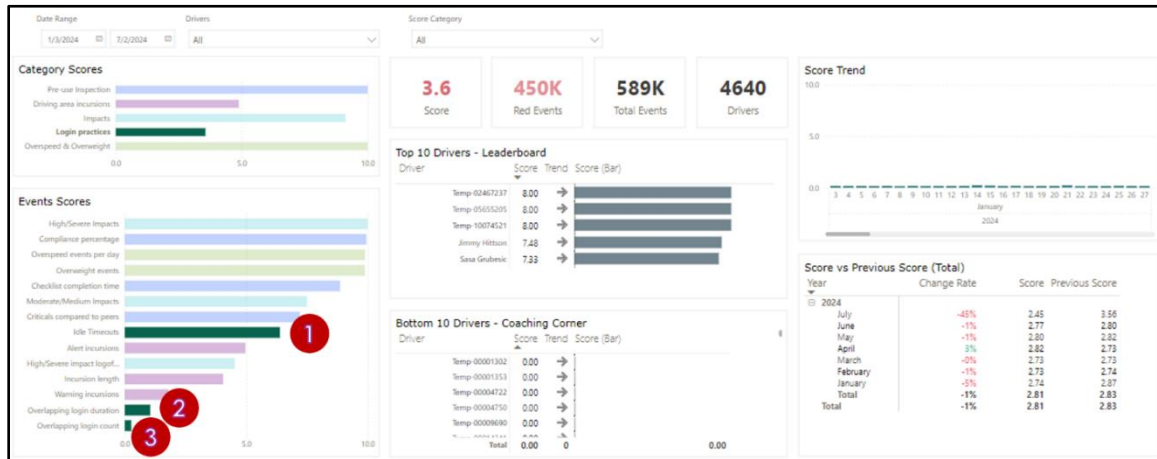


Login Practices

Login practices directly relate to the risk of unqualified personnel driving industrial vehicles. Drivers that leave vehicles without logging off or share IDs create unnecessary risk.

The Login Practices category includes the Event Scores:

1. Idle Timeouts
2. Overlapping login duration
3. Overlapping login count



Factor	Default Threshold	Score	Default Weight (Safety)	Default Weight (Category)
1. Percentage of all logouts that were 'idle timeout'	≥20%	0	4%	50%
	<20% and ≥10%	5		
	<10%	10		
2. Average time logged into multiple vehicles	<5 minutes	10	2%	30%
	≥5 and <10 minutes	7		
	≥10 and <15 minutes	4		
	≥15 minutes	0		
3. Logged into multiple vehicles at the same time rate	<2 times per day	10	1%	20%
	≥2 and <4 times per day	7		
	≥4 and <6 times per day	4		
	≥6 time per day	0		

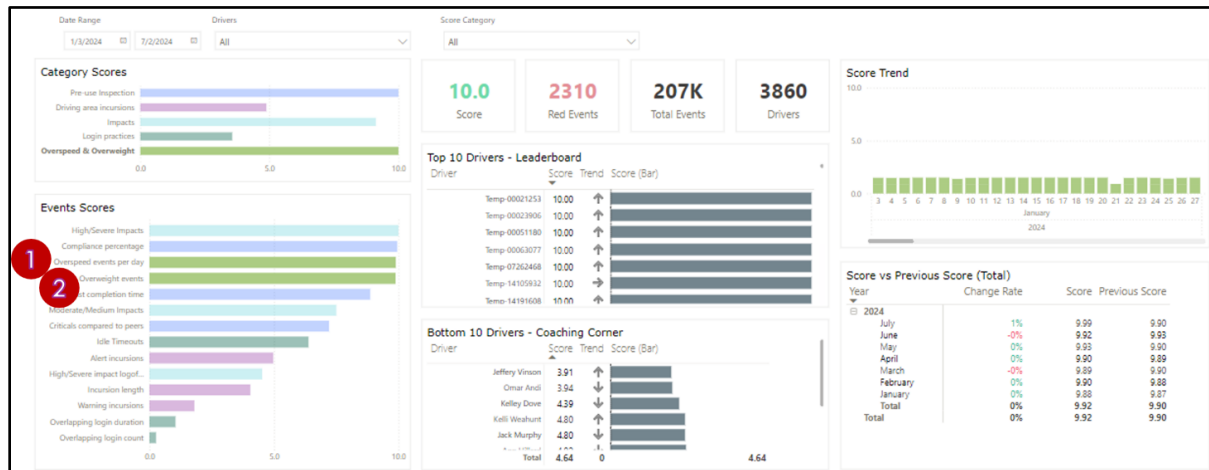


Overspeed & Overweight

Vehicle performance factors have implications on facility safety. Handling loads that are too heavy create risk, travel at excessive speed frequently results in incidents, and other factors like mast height, tilt angle, etc. factor into vehicle stability.

The Overspeed & Overweight category includes the Event Scores:

1. Overspeed events per day
2. Overweight events



Factor	Default Threshold	Score	Default Weight (Safety)	Default Weight (Category)
1. Overspeed events per day	<0.2 events per day	10	9%	60%
	≥0.2 and <0.4 events per day	7		
	≥0.4 and <1 events per day	4		
	≥1 events per day	0		
2. Overload events per day	<0.2 events per day	10	6%	40%
	≥0.2 and <0.4 events per day	7		
	≥0.4 and <1 events per day	4		
	≥1 events per day	0		



Score Summary

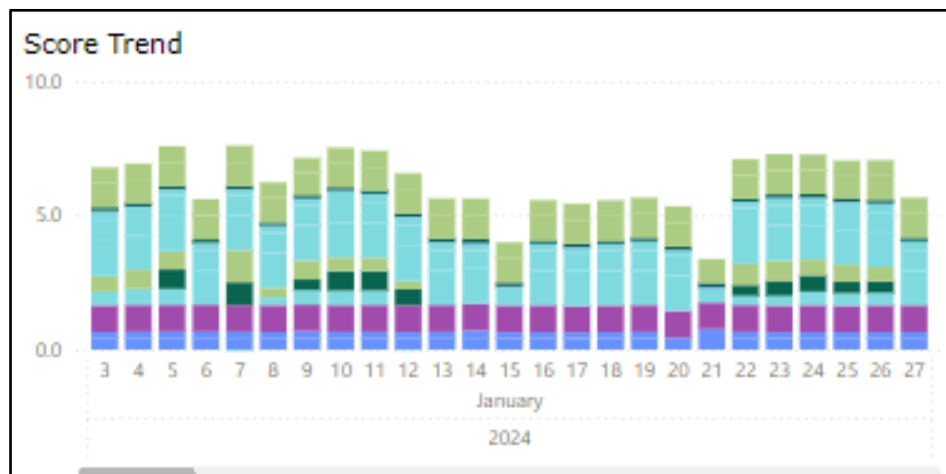
The score summary includes

1. Overall score – total site score for all drivers, categories and events included in the filters.
2. Number of red events – number of events included in the analysis that scored lower than six (6) out of ten (10).
3. Total number of events – total number of events included in the analysis.
4. Number of drivers – Number of drivers included in the analysis.



Score Trend

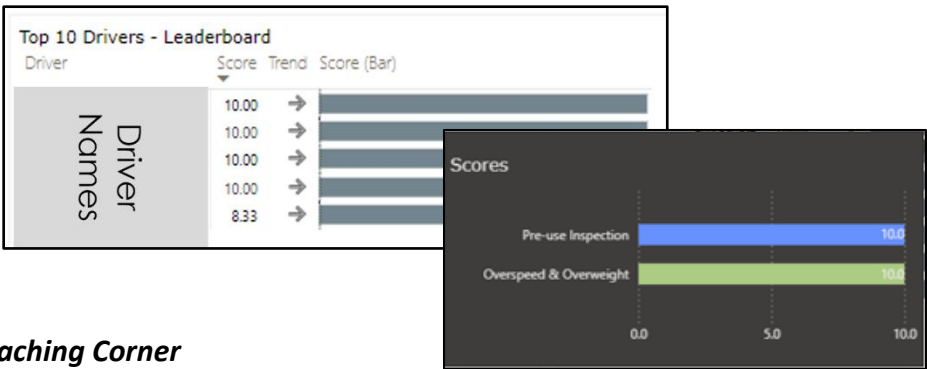
The score trend chart provides a daily combined site score all drivers, categories and events included in the filters. The stacked bar includes each of the events and their contribution to the total score based on the total weight.





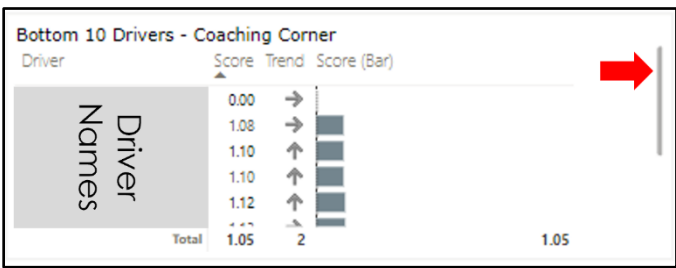
Top 10 Drivers – Leaderboard

The top scoring drivers are identified with their scores. The driver score is a combination of everything in the filter and whatever category or event selected. Click on any driver's score to see their scoring details. If they have scores in more than one event, each event is displayed.



Bottom 10 Drivers – Coaching Corner

The bottom scoring drivers are identified with their scores. The driver score is a combination of everything in the filter and whatever category or event selected. Use the slide bar to scroll up and down.





Score vs Previous Score (Total)

The chart includes the site score variation month to month for drivers, categories and events included in the filters.

1. Months
2. Change value
3. Current score (current month)
4. Previous score (previous month)
5. Monthly Total
6. Grand Total

Score vs Previous Score (Total)				
Year	Change Rate	Score	Previous Score	
2024				
July	-1%	5.65	5.70	
June	-1%	5.61	5.67	
May	1%	5.67	5.62	
April	-1%	5.62	5.65	
March	1%	5.65	5.60	
February	-1%	5.60	5.68	
January	-1%	5.68	5.71	
Total	-1%	5.37	5.42	
2023	-0%	5.33	5.36	
2022	1%	5.91	5.85	
2021	-0%	5.66	5.68	
Total	2%	5.68	5.59	
	0%	5.24	5.24	

If previous years have been included in the date range, current year's months are totaled (those indented) and a grand total is displayed.

The scoring trend is shown in the change rate. Red indicates a drop in the score from one month to the next and green an improvement month to month. Totals are not color coded red or green and thus always black.