

Logistics & Transportation











Why logistics is a great market for you

Logistics companies are always looking for ways to cut costs, improve delivery speed, and run smoother operations. The Freight and Logistics Market size is estimated at USD 6.37 trillion in 2025, and is expected to reach USD 8.13 trillion by 2030, at a CAGR of 4.99% during the forecast period (2025-2030).

Source: <https://www.mordorintelligence.com/industry-reports/freight-logistics-market-study>



Key problems you can solve

 No real-time visibility of vehicles	 Delayed or missed deliveries	 High fuel expenses and fuel theft	 Mismanagement of tires
 Longer routes	 No proof of delivery	 Difficulty managing large fleets	 Unsafe or unpredictable driver behavior

What you can offer with **Uffizio**



Live vehicle tracking



Route planning & ETA



Fuel monitoring



Driver behavior reports



Temperature monitoring



Proof of delivery



Alerts for idling, harsh driving etc



Camera / MDVR integrations

Benefits that help you close deals faster

- ✓ Improve delivery accuracy
- ✓ Reduce costs for your clients
- ✓ Strong differentiation for your business
- ✓ Easy to scale
- ✓ High recurring revenue

Hardware used in this Industry



01

USE CASE

End-to-end visibility for long-distance trucking operations

Once a truck leaves the warehouse for a long-haul journey, it travels vast distances across highways and remote routes. Without real-time visibility, businesses risk delays, fuel loss, safety issues, and dissatisfied customers. Smarter tracking helps manage everything from dispatch to delivery.



01 Goods dispatched from warehouse

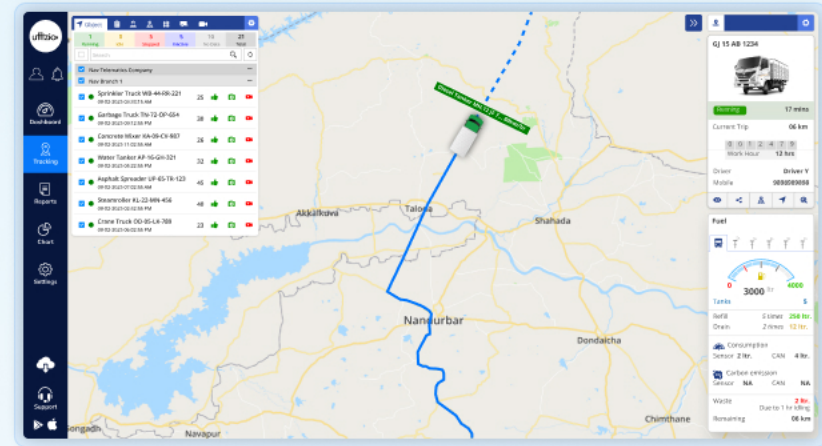
Problem

No visibility once the truck leaves the yard.



Solution

Live vehicle tracking starts immediately, showing the truck's exact location in real time.



02 Truck travels across long routes

Problem

Route deviations and unnecessary stoppages increase delays and costs



Solution

Route monitoring ensures the truck follows approved paths, with instant alerts for deviations.



03 Cargo security during long-haul transit

Problem

No visibility if the cargo door is opened during transit, increasing theft and tampering risk.



Solution

Electronic Lock (e-Lock) integration triggers instant alerts for unauthorised lock or unlock events, along with location and time details.



04 Fuel consumption during transit

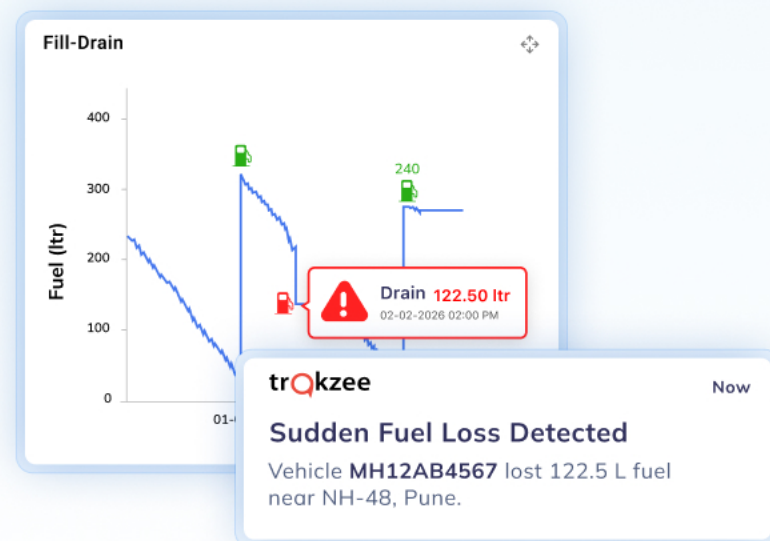
Problem

Fuel theft, excessive idling remain unnoticed during transit.



Solution

Instant alerts on sudden drops and unusual consumption patterns along with reports and charts.



05 Tyre stress on long routes

Problem

Low tyre pressure leads to faster wear, poor mileage, and sudden breakdowns.



Solution

Real-time tyre pressure monitoring alerts operators before tyre damage occurs.



06 Managing transit time & delivery schedules

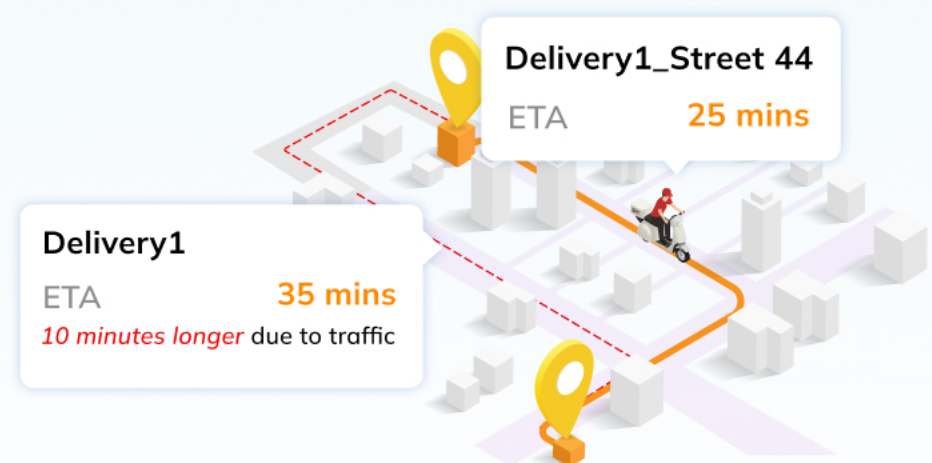
Problem

No accurate ETA leads to delayed deliveries and poor planning.



Solution

Dynamic ETA calculation updates delivery time continuously based on live movement.



07 Driver behavior on highways

Problem

Overspeeding, fatigue, and unsafe driving increase accident risk.



Solution

Driver behaviour and speed monitoring promote safer long-distance driving.



08 Handling breakdowns & emergencies

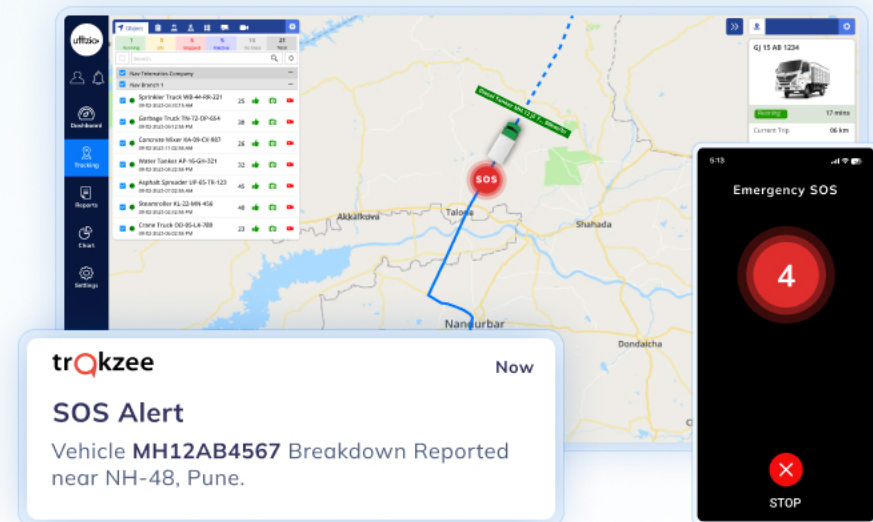
Problem

If breakdowns happen in remote locations, drivers struggle to explain their exact location, causing delays.



Solution

SOS alerts send the truck's live location instantly to control teams for quick assistance.



09 Trip completion & performance review

Problem

No data to review trip performance or identify improvement areas.



Solution

Trip history and performance reports provide complete visibility into distance, delays, stops, and fuel usage.

Job Summary [01-28-2025 12:00 AM - 01-31-2025 11:59 PM]													
Job Name	Job ID	Approx. Distance	Approx. Total Load (T)	Total Job Cost	Total Jobs	Completed Without Issue	Completed With Issue	Failed	Total Alerts	Object Load State	Document	Total Expense	Representative
Abhay Impex	LO467127	346.0	0.0	0.0	3	0	1	2	3	Loaded	-	0	-

UMA International - UMA International - Abhay Impex From : 2025-01-07 06:00:00 To 2025-01-31 11:58:00																	
Status	Planned Start Time	Actual Start Time	Difference	Start Odometer	Planned End Time	Work End Time	Actual End Time	Difference	End Odometer	Job Distance	Job Duration	Job Cost	Allocated Points	Visited Points	Missed Points	Alerts	Playback
Completed Without Error	01-28-2025 06:40 PM	01-28-2025 06:30 PM	00:10	4443.31	01-28-2025 08:25 PM	01-28-2025 08:37 PM	01-28-2025 08:37 PM	00:10	4472.51	28.0	01:27	0.0	13	15	0	0	▶
Completed With Error	01-29-2025 06:00 PM	01-29-2025 06:43 PM	00:16	4563.76	01-29-2025 08:25 PM	01-29-2025 07:58 PM	01-29-2025 07:58 PM	00:26	4507.76	28.0	01:23	0.0	13	12	1	0	▶
Completed Without Error	01-30-2025 06:40 PM	01-30-2025 02:30 AM	00:16	4688.83	01-30-2025 08:25 PM	01-30-2025 08:05 PM	01-30-2025 08:05 PM	00:20	4536.83	28.0	01:35	0.0	13	13	0	0	▶
Completed Without Error	01-31-2025 06:40 PM	01-31-2025 03:30 AM	00:16	4664.00	01-31-2025 08:25 PM	01-31-2025 08:10 PM	01-31-2025 08:10 PM	00:07	4591.68	27.0	01:48	0.0	13	13	0	0	▶

Driver	Job ID	Approx. Distance	Approx. Total Load (T)	Total Job Cost	Total Jobs	Completed Without Issue	Completed With Issue	Failed	Total Alerts	Object Load State	Document	Total Expense	Representative
Srinivasa Sagar MRLLD Chikana BPCL Maghukara:	LO467116	362.0	0.0	0.0	2	0	0	2	0	Loaded	-	0	-
Srinivasa Sagar MRLLD Chikana BPCL Maghukara:	LO467096	314.0	0.0	0.0	2	0	1	1	0	Loaded	-	0	-

Result

Long-haul trucking operations become predictable, transparent, and controlled.

18%

Reduction in tyre failure incidents

29%

Improvement in route planning

37%

Faster issue resolution with live dashboards and alerts

02

USE CASE

Smarter visibility for last-mile delivery operations

Last-mile delivery is where pressure is the highest. Drivers are rushing, customers are waiting, traffic is unpredictable, and one small delay quickly turns into missed deliveries and angry calls. Most last-mile problems don't come from planning, they happen on the road, when teams lose visibility and react too late.



01 High-density delivery routes

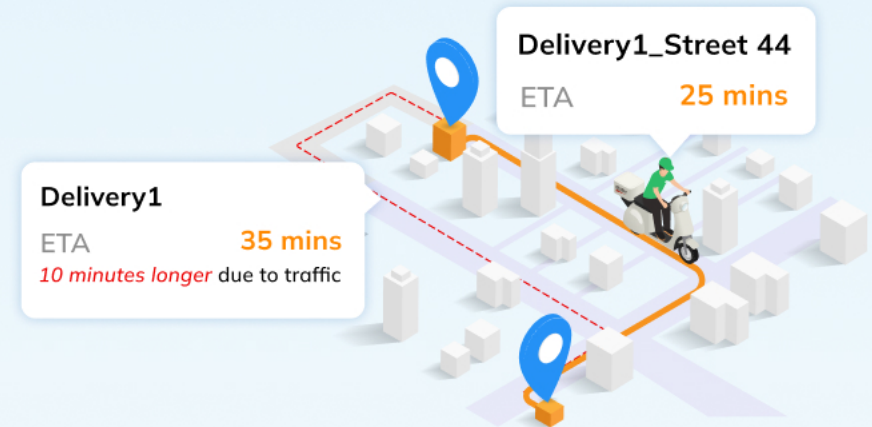
Problem

Drivers take different route due to traffic, causing delays and inefficient deliveries.



Solution

The system plans the most efficient delivery route in advance and notifies the team if a driver moves away from that route.



02 No real-time visibility during deliveries

Problem

Operations teams lack a clear view of delivery progress.



Solution

Live vehicle tracking with continuously updated ETA.



03 Missed or failed deliveries

Problem

Teams don't know where the driver stopped or why the delivery could not be completed.



Solution

Trip tracking shows each stop clearly and records delivery status for every attempt.

Trip Summary [29-01-2026 12:00 AM - 29-01-2026 11:14 AM]																					
Branch	Object	Object Brand	Object Model	HP Object (Info 1)	HP Object (Info 2)	Driver	SEI No	Direction	Running	Location	Work	Working	Running V/S								
									37.75	04:35:14	5406.08	5.8									
HP Brand	HP Brand	Cell Tower	Cell Tower	0	0	HP SW	2598221058		22.40	(23,42,55)	(05,58,28)	11,42,21	1	09/02/2026 12:00:00 AM	09/02/2026 05:41:00 PM	Hi Playback Addr: res 1	0	NA	NA	NA	
HP Brand	HP N User Tech Object 1	COMB	COMB	0275	0	HP SW	1288132059		9.26	(02,11,05)	(16,29,28)	02,25,22	1	09/02/2026 01:28:40 PM	09/02/2026 01:28:40 PM	Hi Playback Addr: res 1	18	100	NA	NA	NA
HP Brand	HP Object B1	Tata	WINDR	ALS	0	No Drv	112220081		5.54	(02,22,25)	(17,17,22)	02,24,23	1	09/02/2026 04:23:59 PM	09/02/2026 04:40:00 PM	Hi Playback Addr: res 1	14	74	NA	NA	NA
HP Brand	HP Stranama Object 1	JAMR	Tempo	Traktor	0	HP Drv	12899		6.81	(02,11,30)	(17,38,26)	02,02,26	1	09/02/2026 02:25:26 PM	09/02/2026 04:40:00 PM	Hi Playback Addr: res 1	20	62	NA	NA	NA
HP Brand	HP B3	ACE	MTC	302D	0	HP Drv	899389		6.81	(02,05,05)	(02,01,43)	15,40,17	1	09/02/2026 12:00:00 AM	09/02/2026 12:00:00 AM	Hi Playback Addr: res 1	0	0	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	142098814		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	795234932		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	1122334455		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	1122334455		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	1122334455		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	1122334455		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	1122334455		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	1122334455		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	1122334455		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	1122334455		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	1122334455		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	1122334455		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA
HP Brand	HP Brand	General	General	0	0	No Drv	1122334455		8.0	(02,00,00)	(02,00,00)	02,00,00	0	0	0	0	0	NA	NA	NA	NA

04 Proof of delivery

Problem

No clarity whether the delivery actually happened or not.



Solution

Proof of delivery through photos, timestamps, and location data.

5:13 < Checkpoint list >

✔ Visited Start >

Checkpoint: ST workshop, Abramsa Rd, Valsad

Location: Pure Basaha Primary School, 1 Paras Bhagvan Pur Basaha RD Ramnagar

Load type: EST Unloading 06:30 AM Full 06:30 hrs

Navigate
Load
Deliver

● Upcoming >

Checkpoint: ST workshop, Abramsa Rd, Valsad

Location: Pure Basaha Primary School, 1 Paras Bhagvan Pur Basaha RD Ramnagar

Load type: EST Unloading 06:30 AM Full 06:30 hrs

Navigate
Load
Deliver

✘ Missed End >

5:13 < Checkpoint list >

First Name *
Enter First Name

Middle Name
Enter Middle Name

Last Name *
Enter Last Name

DOB *

Gender *
 Male
 Female
 Other

Email
Enter your email

Country *
India

Attachment Preview

Previous
Next

05 Vehicle health & maintenance control

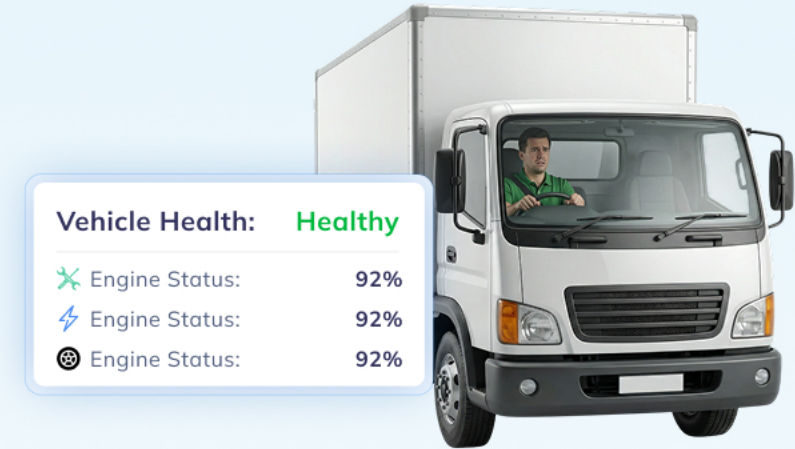
Problem

Vehicle issues go unnoticed until a breakdown happens, leading to unplanned servicing and higher maintenance costs.



Solution

Vehicle health monitoring with usage-based maintenance alerts helps identify issues early and plan servicing in advance.



06 Driver behavior in urban areas

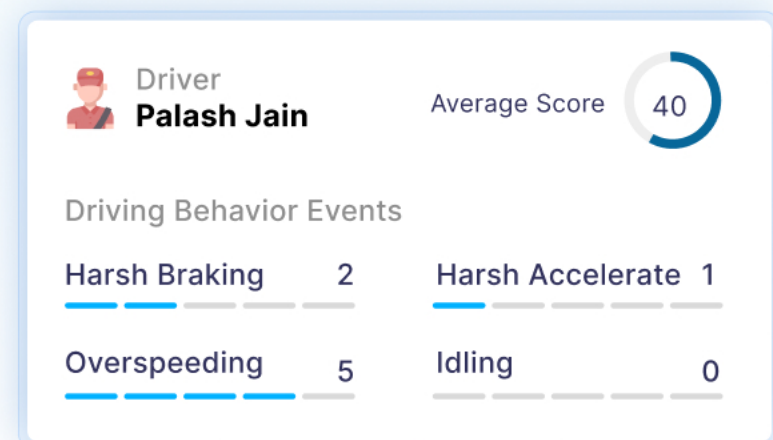
Problem

Rash driving, unnecessary idling, and unsafe behavior.



Solution

Speed, idling, and driving behavior monitoring.



07 Rising cost per delivery

Problem

Extra idling, wrong routes, and slow driving increase fuel use and time per delivery.



Solution

Idle-time and route efficiency reports clearly show where fuel and time are being wasted, helping reduce delivery cost.

Object	Object Brand	Object Model	Object Type	Driver (Based on addresses or RFID/Barcode)	Idling Location	Idling Start Time	Idling End Time	Idle Duration
HP C200 Object 1	Cyber Yachts	Cyber 40S	Yacht	No Driver Found	At Flagback Address 1	01/30/2025 12:00:33 AM	-	08:38:27
HP D31 Rchmor Object 1	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	02/03/2025 02:25:56 AM	02/03/2025 03:23:08 AM	08:32:13
HP D31 Rchmor Object 2	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	02/03/2025 05:02:10 AM	02/03/2025 05:58:03 AM	08:05:53
HP D31 Rchmor Object 3	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	02/03/2025 08:40:15 AM	02/03/2025 09:35:23 AM	08:05:18
HP D31 Rchmor Object 4	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	02/03/2025 09:40:45 AM	02/03/2025 10:36:00 AM	08:05:15
HP D31 Rchmor Object 5	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	02/03/2025 11:13:15 AM	02/03/2025 11:18:25 AM	08:05:48
HP D31 Rchmor Object 6	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	02/03/2025 11:52:15 AM	02/03/2025 11:57:25 AM	08:05:18
HP D31 Rchmor Object 7	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	02/03/2025 07:03:28 PM	02/03/2025 07:19:25 PM	08:08:57
HP D31 Rchmor Object 8	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	02/03/2025 07:14:25 PM	02/03/2025 07:27:05 PM	08:12:25
HP D31 Rchmor Object 9	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	02/03/2025 10:38:40 PM	02/03/2025 10:43:20 PM	08:05:18
HP D31 Rchmor Object 10	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	02/03/2025 12:07:50 AM	02/03/2025 12:12:20 AM	08:05:36
HP D31 Rchmor Object 11	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	02/03/2025 12:59:50 AM	02/03/2025 03:05:00 AM	13:30:24
HP D31 Rchmor Object 12	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	06/03/2025 03:02:17 AM	07/03/2025 02:00:00 AM	23:57:45
HP D31 Rchmor Object 13	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	07/03/2025 03:04:20 AM	07/03/2025 02:16:10 PM	11:11:58
HP D31 Rchmor Object 14	ACE	MTC 3025	Tower Crane	HP D31 Rchmor Driver 2	At Flagback Address 1	07/03/2025 02:03:15 PM	-	08:38:40
HP FM2140 Object 1	CAR	CAR	Car/Van	HP FM2140 Driver 1	At Flagback Address 1	01/03/2025 12:00:17 PM	01/03/2025 02:17:17 PM	19:17:08
HP FM2140 Object 2	CAR	CAR	Car/Van	HP FM2140 Driver 1	At Flagback Address 1	01/03/2025 03:18:27 PM	02/03/2025 09:28:22 AM	17:09:05
HP FM2140 Object 3	CAR	CAR	Car/Van	HP FM2140 Driver 1	At Flagback Address 1	02/03/2025 09:28:27 PM	-	18:23:38
HP FM2020 Object 1	Call Tower	Call Tower	Call Tower	HP FM2020 Driver 2	At Flagback Address 1	01/03/2025 12:00:04 AM	02/03/2025 12:56:25 PM	26:56:48
HP FM2020 Object 2	Call Tower	Call Tower	Call Tower	HP FM2020 Driver 2	At Flagback Address 1	02/03/2025 01:12:18 PM	02/03/2025 01:20:38 PM	08:08:25

08 On-road issues & escalations

Problem

Delayed response to breakdowns or incidents.



Solution

Instant alerts and live location sharing.

trokzee Now

Engine Failure Alert
Engine failure detected at 10:12 AM, near Shahada, Nandurbar, MH.

Location
Shahada Police Station Area, Shahada Main Road, Nandurbar District, Maharashtra, India
21.5459, 74.4716

09 Lack of driver-level accountability

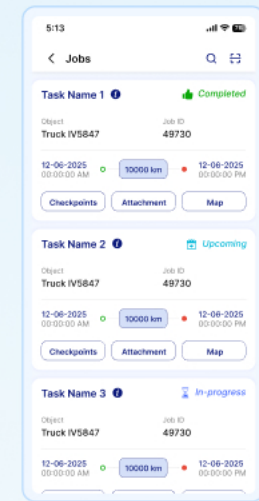
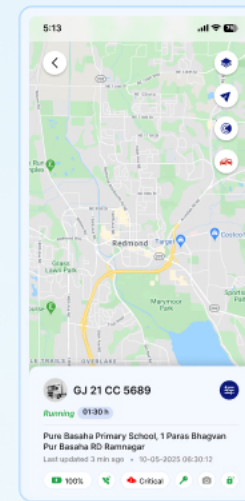
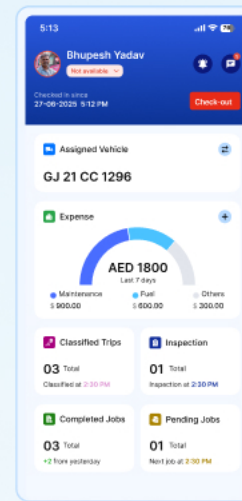
Problem

Delivery instructions, routes, and delivery updates are shared informally, leading to confusion.



Solution

Driver application that provides assigned trips and routes, delivery instructions, driver documents etc



Result

Last-mile delivery gains complete visibility, tighter control, and consistent on-time performance.

35%

Improvement in on-time last-mile deliveries

30%

Increase in first-attempt delivery success

25%

Reduction in overall delivery expenses fuel, overtime, reattempts

03

USE CASE

Reducing operational risk in heavy goods transport

Heavy goods transport deals with high loads, high risk, and high responsibility. A single overloaded trip, delayed movement, or vehicle failure can result in penalties, damage, or serious safety issues. What heavy transport operators need is not just tracking they need real-time load visibility, early warnings, and clear reports to stay in control before problems occur.



01 Overloading & load stress

Problem

Operators only discover overloading issues after fines, tyre damage, or breakdowns.



Solution

Live load monitoring with instant alerts when load limits are crossed.



trQkzee

Now

Load Limit Crossed

Vehicle MH12AB4567 is carrying weight above the approved limit. Risk of damage and fines.

02 Load visibility & compliance reporting

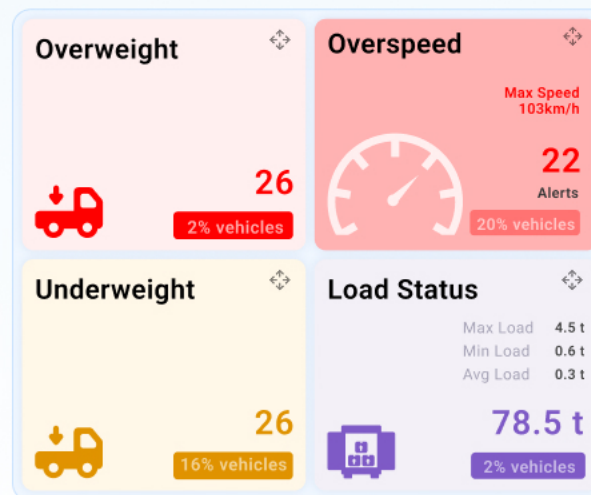
Problem

No structured data to show load history during trips.



Solution

Load reports showing load levels, alerts triggered, and duration of overload.



03 Live tracking screen for complete trip control

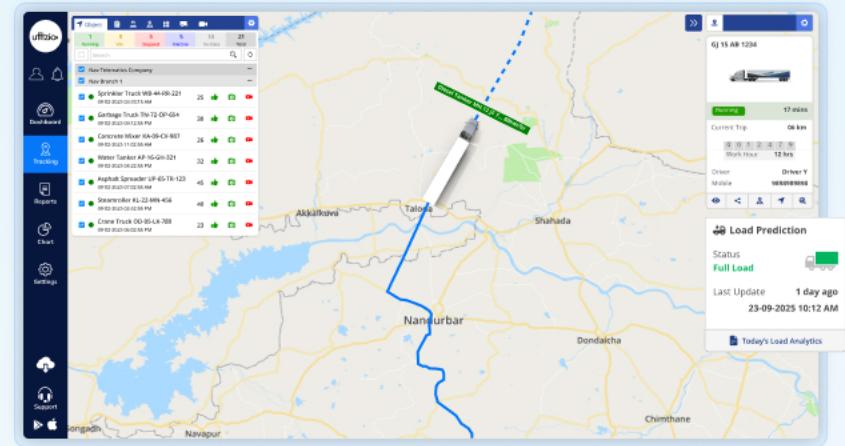
Problem

Operators rely on calls to understand where the vehicle is and what's happening.



Solution

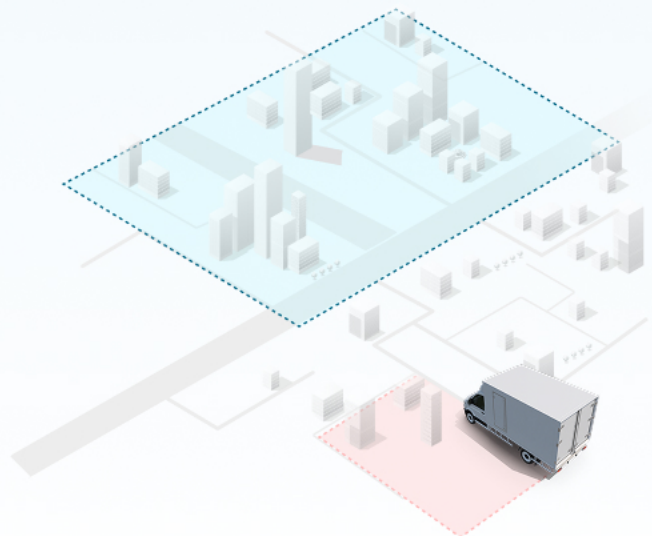
A live tracking screen that shows vehicle location, current speed, load status.



04 Restricted routes & road suitability

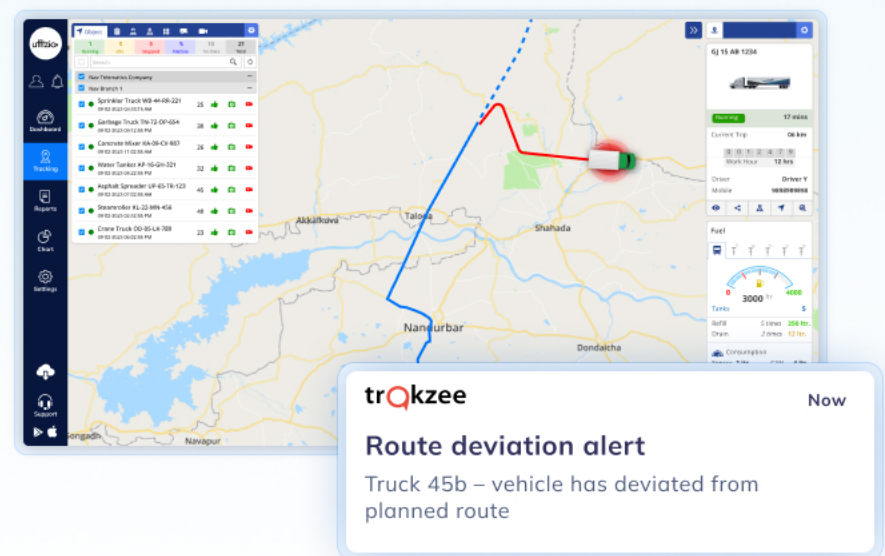
Problem

Drivers enter restricted or unsafe routes unknowingly.



Solution

Route monitoring with deviation alerts visible directly on the live tracking screen.



05 Delay detection in high-value trips

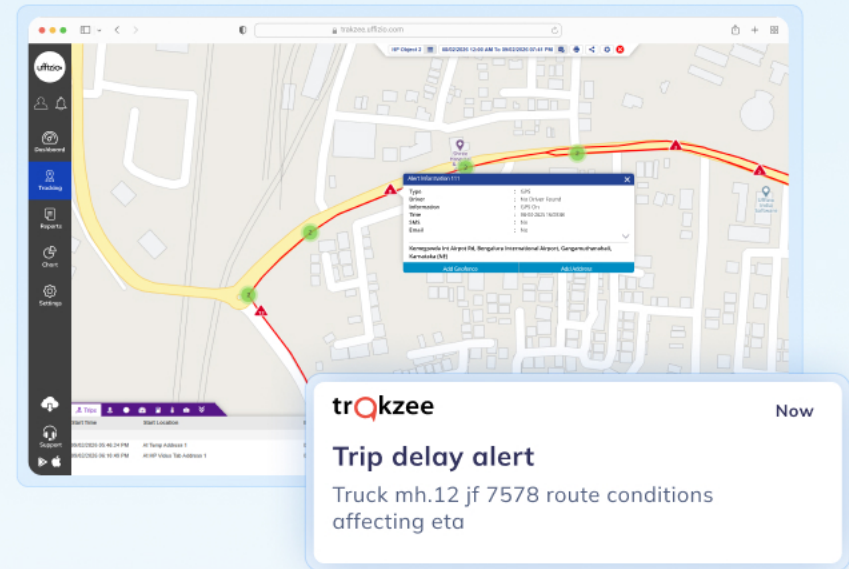
Problem

Delays are noticed only after delivery commitments are affected.



Solution

Delay alerts and dynamic ETA updates shown on the tracking dashboard.



06 Tyre stress under heavy load

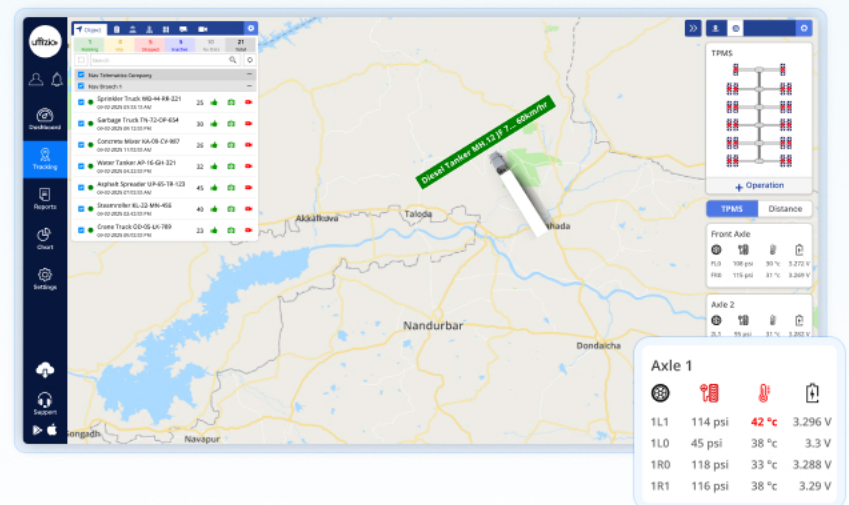
Problem

Tyre failures occur without warning.



Solution

Tyre pressure monitoring with alerts for abnormal pressure and temperature.



07 Vehicle health under load

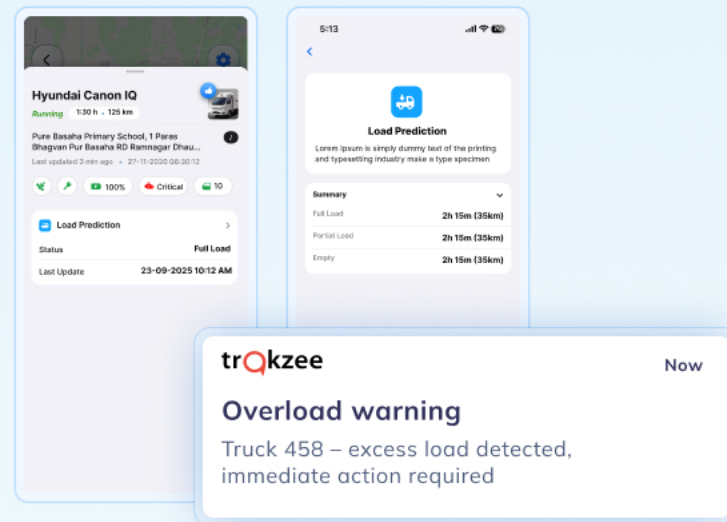
Problem

Unexpected breakdowns during trips.



Solution

Load monitoring alerts detect overloading in real time this prevent breakdowns and reduce wear.



08 Unsafe driving of heavy vehicles

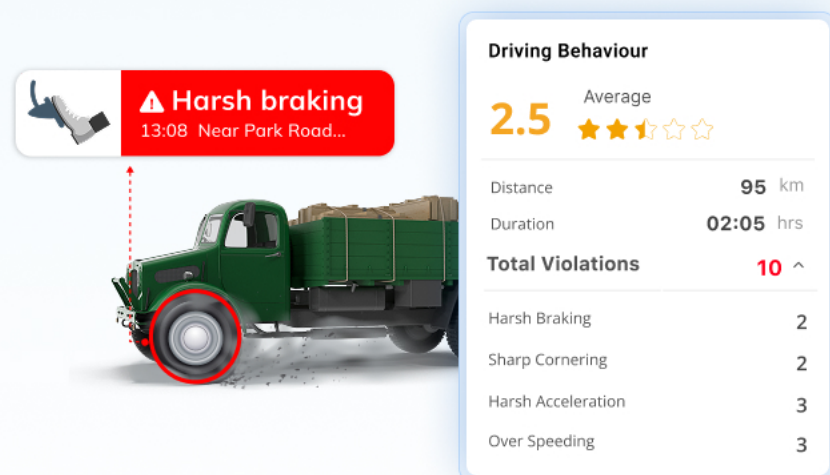
Problem

Overspeeding or harsh driving increases accident risk and vehicle damage.



Solution

Driver behaviour monitoring with real-time alerts and performance reports.



09 Emergency handling for heavy vehicle

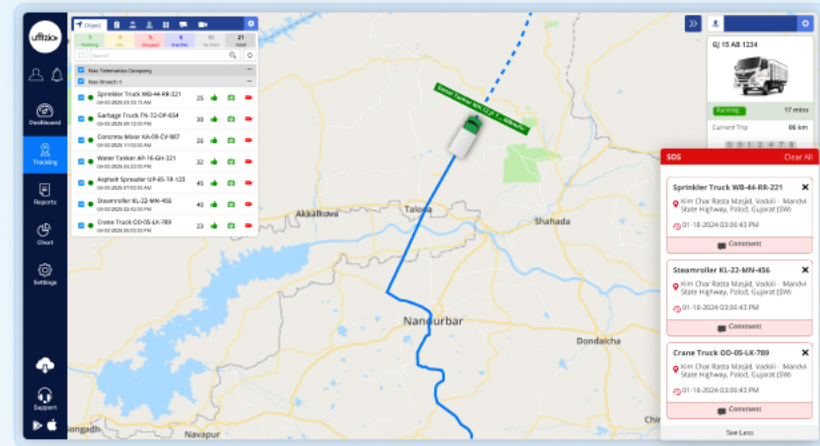
Problem

Delayed escalation during breakdowns or accidents.



Solution

SOS alerts with exact location and trip context.



Result

Heavy goods transport gains real-time visibility with end-to-end accountability.

27%

Reduction in overloading incidents through real-time load alerts

31%

Faster response to breakdowns and on-road emergencies

88%

Trip level load and compliance visibility through automated reports

04

USE CASE

Securing container and freight movement with real-time control

Container and freight movement involves handling sealed, high-value cargo across ports, yards, highways, ICDs, and customer locations. Operations are time-sensitive, security-critical, and often involve multiple vehicles moving together under strict instructions. Basic tracking is not enough here. Operators need secure movement, task-level control, real-time visibility, and proof of events — all from a single system.



01 Container movement operations

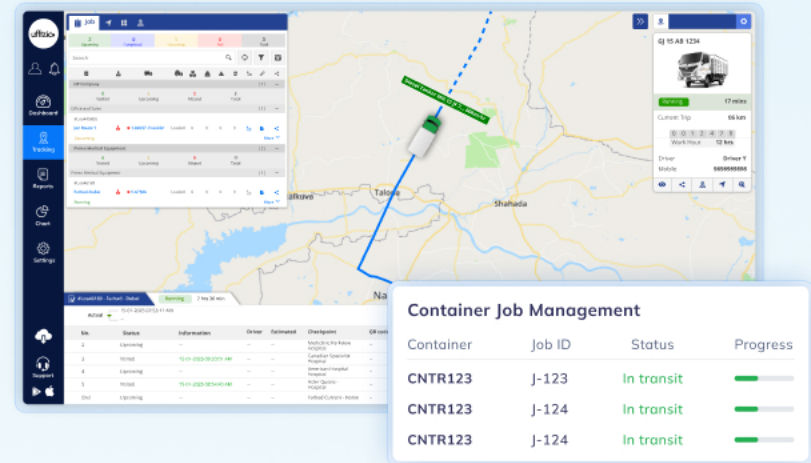
Problem

Container movements are handled informally, with no clear job status or accountability.



Solution

Job management to create, assign, and track each container movement with clear status updates.



02 Unauthorized container opening & cargo theft

Problem

No real-time alert if a container is opened during transit.



Solution

Electronic Lock (e-Lock) integration with instant alerts for unauthorized open or tamper events.



03 Proof of lock & unlock events

Problem

There is no clear record to confirm when and where the container was opened during the trip.



Solution

e-Lock reports automatically capture lock and unlock time, location, and linked trip details.

Company	Branch	Object	Last Data Received Time	Current Location	Battery Status	Location Status	Map
HP Company	HP Branch 1	HP Lock Object 3	08/08/2025 11:13 AM	Gj SH 193, Gujarat (SW)			
Vandelay Ind.	Vandelay Main	Vandelay Lock 1	01/15/2027 03:22 PM	MH Gj 22, Maharashtra (NW)			
Vandelay Ind.	Vandelay Main	Vandelay Lock 2	03/29/2026 06:54 AM	MH Gj 22, Maharashtra (NW)			
Vandelay Ind.	Vandelay Main	Vandelay Lock 3	05/11/2024 02:11 PM	MH Gj 22, Maharashtra (NW)			
Vandelay Ind.	Vandelay Main	Vandelay Lock 4	12/03/2023 08:47 AM	MH Gj 22, Maharashtra (NW)			
Vandelay Ind.	Vandelay Main	Vandelay Lock 5	02/23/2025 04:04 PM	MH Gj 22, Maharashtra (NW)			
Vandelay Ind.	Vandelay Main	Vandelay Lock 6	09/18/2026 12:39 AM	MH Gj 22, Maharashtra (NW)			
Vandelay Ind.	Vandelay Main	Vandelay Lock 7	04/06/2024 07:51 PM	MH Gj 22, Maharashtra (NW)			
Vandelay Ind.	Vandelay Main	Vandelay Lock 8	11/28/2025 01:28 AM	MH Gj 22, Maharashtra (NW)			
Vandelay Ind.	Vandelay Main	Vandelay Lock 9	07/09/2023 10:06 AM	MH Gj 22, Maharashtra (NW)			
Vandelay Ind.	Vandelay Main	Vandelay Lock 10	06/14/2024 09:33 PM	MH Gj 22, Maharashtra (NW)			

04 Trailer & container asset visibility

Problem

No visibility when trailers are parked, dropped, or moved



Solution

Trailer tracking to monitor trailer location, movement, and idle duration.

Trailer	Code	IMEI	GPS
UPLAK			
UPLAK Trailer 1	132050		
UPLAK Trailer 2	233041		
UPLAK Trailer 3	345076		
UPLAK Trailer 4	457090		
UPLAK Trailer 5	569088		
UPLAK Trailer 6	678081		
UPLAK Trailer 7	789010		
UPLAK Trailer 8	899031		
UPLAK Trailer 9	910074		
UPLAK Trailer 10	020090		
UPLAK Trailer 11	130085		
UPLAK Trailer 12	240088		
UPLAK Trailer 13	350056		
UPLAK Trailer 14	460099		
UPLAK Trailer 15	570096		
UPLAK Trailer 16	680012		
UPLAK Trailer 17	790023		

Map view showing the location of a trailer (Trailer 123456) in a city area. A location popup is visible for Pure Basaha Primary School, 1 Paras Bhagvan Pure Basaha RD, Ramnagar, Dhaurahra, 55.886846, 37.546393.

05 Convoy tracking for high-value cargo

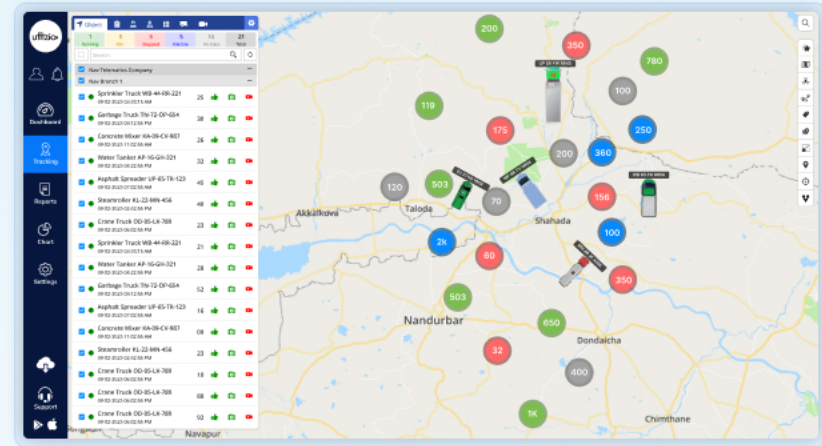
Problem

Loss of coordination between convoy vehicles during transit.



Solution

Convoy tracking to monitor all vehicles together on a single live view.



06 Event-based video & playback history

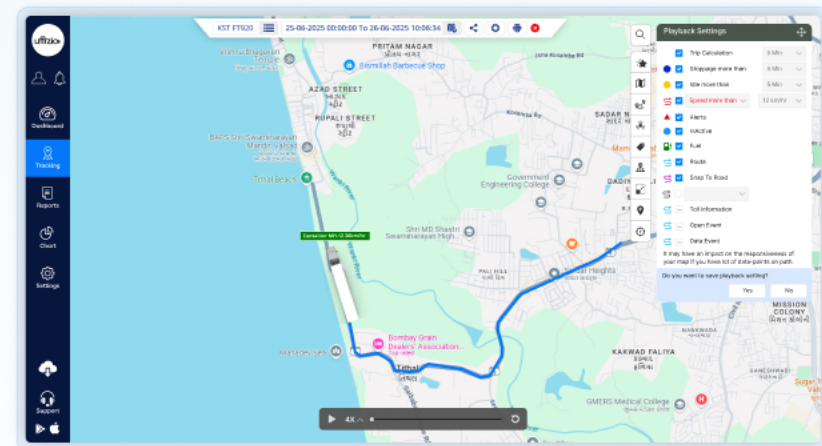
Problem

No evidence during theft attempts, accidents, or disputes.



Solution

Event-triggered video recording and playback history linked to alerts.



07 Unified job, trip & security reports

Problem

Data is scattered across systems and logs.



Solution

Consolidated reports combining: Job status, Vehicle and trailer movement, e-Lock events, Video alerts and playback, Delays and route deviations

Vehicle	Vehicle Brand	Vehicle Model	Driver No	REG No	Distance	Running	Idle	Stop	First Ignition On	Last Ignition Off	Last Ignition On	Last Ignition Off	Speed	Fuel	Fuel	Fuel	Fuel	Cost	Cost	Cost	Cost	Cost	Cost
MF1020001	Ashok Leyland	1610 XL	Driver No	985404208	1145.23	59.54	19.00	489.25	06-11-2024 18:51:09 AM	07-11-2024 05:44:30 PM	06-11-2024 18:51:09 AM	07-11-2024 05:44:30 PM	19	55	90.45	8.47	0331.5	52					
MF1020002	Mantra	Mantra	Driver No	3504120312	35.42	07.18	04.21	280.24	07-11-2024 12:34:05 AM	07-11-2024 12:34:05 AM	07-11-2024 12:34:05 AM	07-11-2024 12:34:05 AM	5	15	8.8	0	0.0	59					
MF1020003	Enhavon	TATA HITACHI	Driver No	3305400005	0.54	08.94	13.13	84.01	09-11-2024 18:40:09 AM	09-11-2024 18:40:09 AM	09-11-2024 18:40:09 AM	09-11-2024 18:40:09 AM	1	13	8.8	0	0.0	19					
MF1020004	Ester	Trax 25	Driver No	866648408	783.13	42.21	10.01	480.26	06-11-2024 07:40:08 PM	06-11-2024 07:40:08 PM	06-11-2024 07:40:08 PM	06-11-2024 07:40:08 PM	18	54	177.48	4.46	1241.0	85					

08 Emergency & incident escalation

Problem

Delayed escalation during breakdowns or security events.



Solution

SOS alerts with live location, job context, and video access.

Vehicle	Alert Type	Location	Time	Status
Sprinter Truck WB-44-00-221	SOS	...	...	...
Garbage Truck 780-72-00-054	SOS	...	...	...
Canterino Mixer AK-08-CR-807	SOS	...	...	...
Water Tanker AP-16-GN-221	SOS	...	...	...
Agribulk Generator SP-45-178-123	SOS	...	...	...
Steamroller KL-22-MN-456	SOS	...	...	...
Crane Truck OO-05-LK-789	SOS	...	...	...

09 Location-based container control

Problem

No proof of when a container arrived, waited, or was handled.



Solution

Geofencing records entry, exit, and time at approved locations.

Geofence to Geofence Trip Summary [01-11-2024 12:00 AM - 30-11-2024 11:59 PM]

Company	Branch	Objct	Driver	Trip Start Geofence	Trip End Geofence	No of Trips	Distance	Running (sec:MM)	Idle (sec:MM)	Stop (sec:MM)	Inactive (sec:MM)	Duration (sec:MM)	
						1527	480.36	47:42:24	78:37:34	328:45:47	336:28:59		
HP Company	HP Branch 1	HP Objct 7	HP Driver 7	HP Geofence 47	HP Geofence 15	9	3.8	00:13:30	00:00:00	00:00:00	00:00:00	00:14:00	
Trip No	Driver	Trip Start Geofence	Trip Start Date	Trip End Geofence	Trip End Date	Distance	Running	Idle	Stop	Inactive	Duration	AVG	Max
1	HP Driver 1	HP Geofence 47	06:02:2025 09:18:27 PM	HP Geofence 48	06:02:2025 05:13:27 PM	8.86	00:03:10	00:00:00	00:00:00	00:00:00	00:03:10	15	15
2	HP Driver 2	HP Geofence 46	06:02:2025 09:13:37 PM	HP Geofence 45	06:02:2025 05:16:47 PM	8.88	00:03:10	00:00:00	00:00:00	00:00:00	00:03:10	17	27
3	HP Driver 3	HP Geofence 45	06:02:2025 09:16:47 PM	HP Geofence 44	06:02:2025 05:17:02 PM	8.82	00:00:15	00:00:00	00:00:00	00:00:00	00:00:15	5	21
4	HP Driver 4	HP Geofence 44	06:02:2025 09:17:02 PM	HP Geofence 43	06:02:2025 05:17:22 PM	8.76	00:00:30	00:00:00	00:00:00	00:00:00	00:00:30	18	26
5	HP Driver 5	HP Geofence 43	06:02:2025 09:17:02 PM	HP Geofence 42	06:02:2025 05:18:32 PM	8.28	00:01:00	00:00:00	00:00:00	00:00:00	00:01:00	17	28
HP Company	HP Branch 1	HP Temp Objct 1	No Driver Found	HP Geofence 47	HP Geofence 41	6	3.27	00:10:39	00:00:00	00:00:00	00:00:00	00:11:00	
Viasse Corp	Viasse Branch 1	Viasse Temp Objct 1	No Driver Found	Viasse Geofence 47	Viasse Geofence 41	12	4.12	00:15:42	00:00:00	00:00:00	00:00:00	00:16:00	
Viasse Corp	Viasse Branch 1	Viasse Temp Objct 1	No Driver Found	Viasse Geofence 47	Viasse Geofence 41	12	4.12	00:15:42	00:00:00	00:00:00	00:00:00	00:16:00	
Viasse Corp	Viasse Branch 1	Viasse Temp Objct 1	No Driver Found	Viasse Geofence 47	Viasse Geofence 41	12	4.12	00:15:42	00:00:00	00:00:00	00:00:00	00:16:00	
Viasse Corp	Viasse Branch 1	Viasse Temp Objct 1	No Driver Found	Viasse Geofence 47	Viasse Geofence 41	12	4.12	00:15:42	00:00:00	00:00:00	00:00:00	00:16:00	
Viasse Corp	Viasse Branch 1	Viasse Temp Objct 1	No Driver Found	Viasse Geofence 47	Viasse Geofence 41	12	4.12	00:15:42	00:00:00	00:00:00	00:00:00	00:16:00	
Viasse Corp	Viasse Branch 1	Viasse Temp Objct 1	No Driver Found	Viasse Geofence 47	Viasse Geofence 41	12	4.12	00:15:42	00:00:00	00:00:00	00:00:00	00:16:00	

Result

Freight and container movement runs in sync across routes, hubs, and timelines.

38%

Reduction in unauthorized container opening and security incidents using e-lock alerts

29%

Reduction in container turnaround time at ports, yards, and customer locations

37%

Improvement in on-time container pickups and deliveries through job-based tracking

05

USE CASE

Reducing spoilage and risk in cold chain transport

Cold chain operations involve transporting temperature-sensitive goods such as food, dairy, pharmaceuticals, and vaccines. Even a small temperature variation during transit can lead to spoilage, rejection, compliance failure, or financial loss.

Cold chain operators don't just need to move goods — they need continuous temperature control, instant alerts, and clear proof that conditions were maintained throughout the journey.



01 Temperature changes during transit

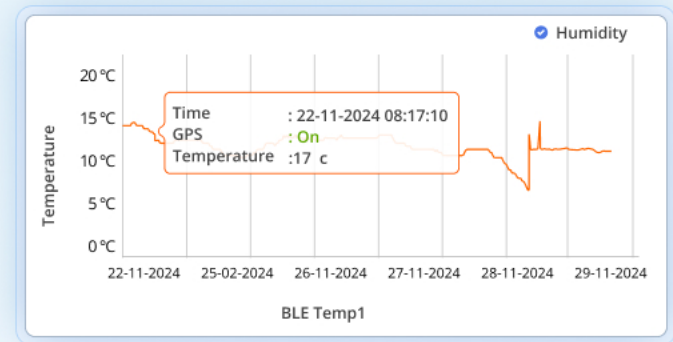
Problem

Temperature rises or drops go unnoticed until delivery, causing spoilage or rejection.



Solution

Real-time temperature monitoring with instant alerts when thresholds are crossed.



02 Delayed response to cooling failure

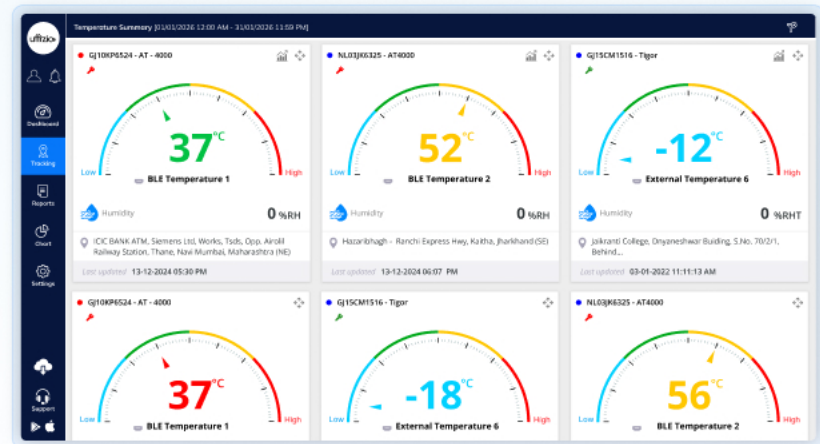
Problem

Operators are informed too late about reefer malfunction or power issues.



Solution

Live sensor alerts integrated with the tracking dashboard.



03 Lack of visibility during transit

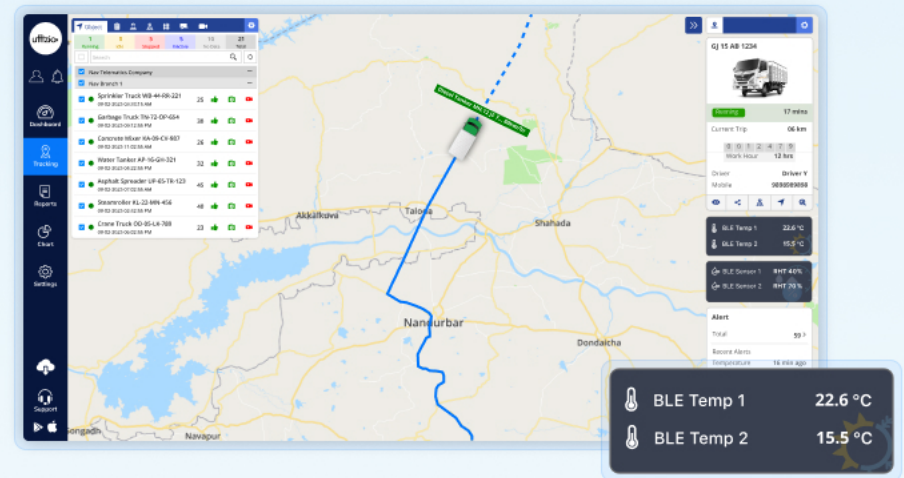
Problem

When a delay or temperature alert occurs, teams don't know the vehicle's exact location to act quickly.



Solution

Live tracking shows the vehicle's real-time location with temperature status for immediate action.



04 No proof of temperature compliance

Problem

No reliable temperature records to prove cold chain integrity.



Solution

Automated temperature reports showing time-stamped readings across the trip.

Vehicle	Vehicle Brand	Vehicle Model	Port	Temperature	Humidity	Date	Distance	Start Location	Temperature	Humidity Status	End Location				
Q1173308	Ashok Leyland	10 Wheel	External Temperature	-	-	27-11-2024	24.71	Hisar Road, Surul, NH	23.84	21.0	28.0	0.0	0.0	0.0	Hisar Road, Surul, NH
Q10547154	Ashok Leyland	10 Wheel	External Temperature	-	-	27-11-2024	15.58	Shree Ganesh Petrol	24.12	19.0	33.0	0.0	0.0	0.0	QJ SH 105, Purul, Gujarat
Q10931598	Ashok Leyland	10 Wheel	External Temperature	-	-	27-11-2024	132.81	Shree Ganesh Petrol	6.17	15.0	30.0	0.0	0.0	0.0	MP PETROL, Palsah
Q10805524	AMR	1618 TP	External Temperature	-	-	27-11-2024	183.43	QJ SH 150, Gujarat(NH)	8.26	28.0	14.0	0.0	0.0	0.0	Esler Petrol Pump, New C
Q14427216	Eicher	1325	External Temperature	-	-	26-11-2024	141.03	NH NH 325, Mahes	16.23	14.0	25.0	0.0	0.0	0.0	Amelia Super Store, East
Q10023318	APAC MOTOR	4820-4800	External Temperature	-	-	26-11-2024	251.48	NH NH Gujarat (NH)	22.34	18.0	25.0	0.0	0.0	0.0	NH NH, Gujarat(NH)

Start Time	Temperature Value	Humidity Level	AC	Ignition	Door	Chiller	Speed	Location	Map
27-11-2024 12:00:21 AM	23.0	0.0	NA	OFF	NA	NA	0	NH NH, Gujarat(NH)	+
27-11-2024 12:00:52 AM	24.0	0.0	NA	OFF	NA	NA	0	NH NH, Gujarat(NH)	+

05 Unauthorized door opening

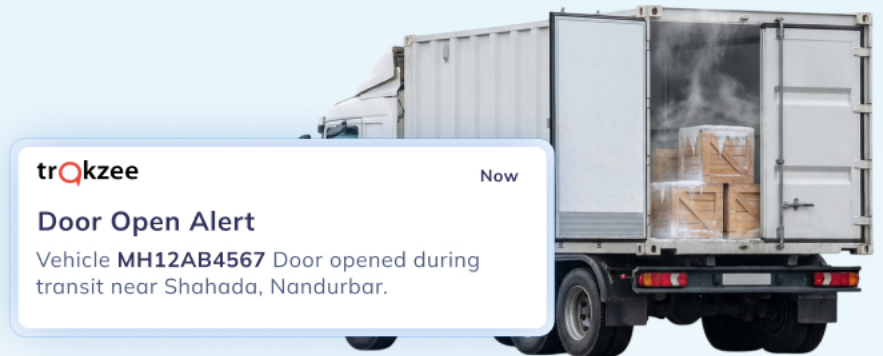
Problem

No alert when doors are opened during transit.



Solution

Door sensor alerts integrated with trip and temperature data.



06 Incident investigation & verification

Problem

There is no clear record showing when and where temperature limits were crossed during transit.



Solution

A temperature summary report shows the full temperature history of the trip, including any deviations with time and location.

Company	Branch	Trip	Date	Distance	Start Location	Temperature	Humidity	Deviation
HP Company	HP Branch 1	HP Temperature Class 1	12/21/2024	1200	Jan-Markit & Store	10.0	50	0.0
HP Company	HP Branch 11	HP Temperature Class 1	12/21/2024	1200	Jan-Markit & Store	10.0	50	0.0
HP Company	HP Branch 11	HP Temperature Class 1	12/21/2024	1200	Jan-Markit & Store	10.0	50	0.0
HP Company	HP Branch 11	HP Temperature Class 2	12/21/2024	1200	Jan-Markit & Store	10.0	50	0.0

07 Performance analysis across shipments

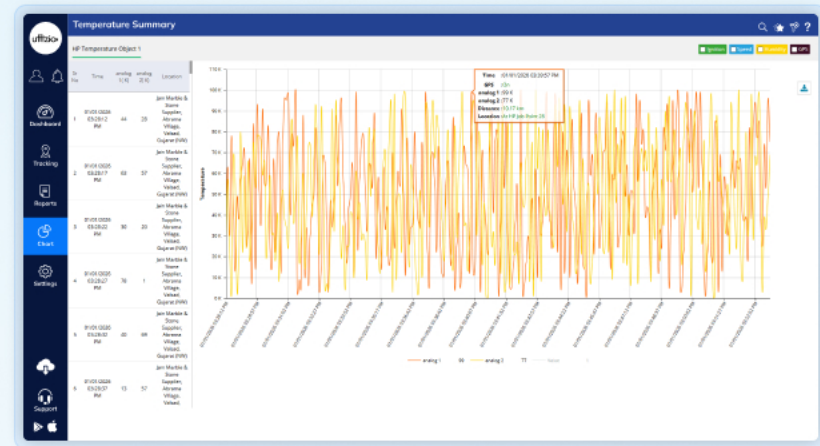
Problem

No insight into recurring problem routes, vehicles, or time slots.



Solution

Analytical reports and charts highlighting: Temperature deviation patterns, High-risk routes, Vehicle-wise performance.



08 Emergency & exception handling

Problem

Delayed coordination during critical temperature breaches.



Solution

Real-time alerts with trip context and escalation workflows.

High Temperature : 21°C

Required Temperature : 15 °C to 17 °C
Time of Initial Temperature Drop : 11:23AM
Location : 14, Stevens Street



09 Temperature status of all vehicles

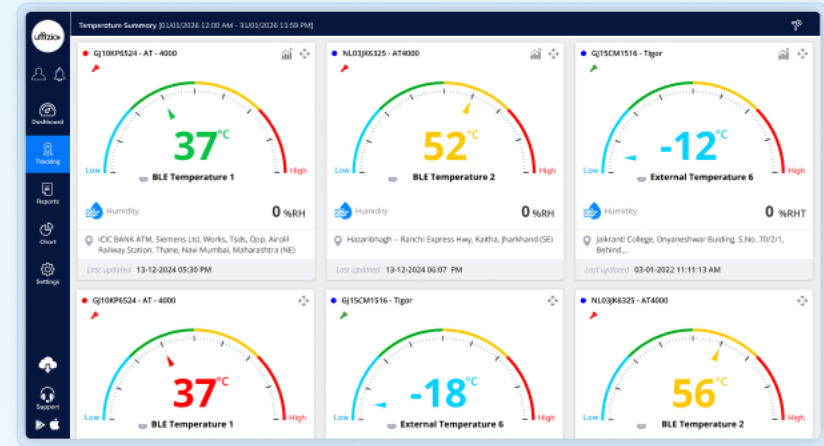
Problem

Teams can't easily track temperature of multiple vehicles at the same time.



Solution

A live temperature dashboard that shows real-time temperature, humidity etc for each vehicle on one screen.



Result

Cold chain operations run with continuous temperature assurance.

33%

Reduction in temperature-related cargo spoilage

27%

Improvement in on-time cold chain deliveries

25%

Decrease in disputes and claims through temperature playback data