

CASE STUDY

*Optimized Transport Automation solution to improve
Vehicle utilization and efficiency for leading Fortune
500 Consultancy firm*



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Safetrax's Auto Routing Mechanism enables leading Fortune Global 500 Company to streamline and automate employee transport

The organization utilizes Safetrax's ground-breaking algorithm to ensure better efficiency, vehicle utilization, and employee safety during fleet operations



THE CLIENT:

A leading Fortune Global 500 company which is a domain leader that provides highly specialized business solutions to a clientele that, amongst others, includes 91 of the Fortune Global 100. The company required fleet management solutions to manage transport operations at its Philippines office.

RESOURCES

Total number of vehicles needed for login shifts: **160**

Total number of vehicles needed for logout shifts: **174**

Total number of vehicles that were being used per shift: **245**

THE CHALLENGE:

The company was operating vehicles along 247 routes for 557 employees. This led to:

- Massive fleet underutilization
- Inefficient transport operations
- Suboptimal utilization of the seating capacity per vehicle.



THE PANDEMIC SITUATION

- According to social distancing norms, each vehicle could be filled only up to 50 % of its total seating capacity.
- None of the vehicles in the organization's fleet were running with 6 passengers despite being 12 seaters.

The company wanted to reduce the number of routes and ensure optimal seating capacity per shift while fulfilling the following parameters:

- The maximum distance deviation allowed per route was to be no more than 5 kilometers.
- The maximum travel time per employee was to be kept under 120 minutes.

This is where Safetrax® stepped into the picture with its smart Auto Routing Mechanism to minimize the hassle of route planning and ensure the most optimal fleet operations. Our commitment to empowering businesses with tech-driven solutions also aligned perfectly with the company's change-centric, future-ready ethos.

THE SOLUTION:

Our Customer Success team worked closely with the client's transport admin team to conduct deep analysis of existing routes to understand and map employee stoppage, distance, and travel time. Our proprietary Auto Routing Mechanism used the insights generated to implement the most optimal routes based on employee locations, transport requirements, schedules, etc.

HERE IS HOW WE DID IT:

- *Used employee home locations to define certain 'clusters' that contained multiple nearby pickup locations and automatically implement the most optimal route for each vehicle.*
- *Allowed the in-house transport admin team to define vehicle routes based on custom zones or previous routing schedules.*
- *Enabled the flexibility to club pickups from different zones/clusters to minimize the number of trips made.*

THE SUCCESS:

The deployment of Safetrax®'s Auto Routing Mechanism was a resounding success for the client. The client reduced the total number of routes used from 247 to 158 without extending its maximum distance deviation and accommodated more employees per vehicle. Average travel time per employee was reduced to under 44 minutes.

ADDITIONAL BENEFITS :

- More efficient route planning and error-free scheduling.
- Reduced transportation costs and manual effort.
- Safer, swifter, and more secure employee transportation options.
- Greater operational flexibility.
- Reduced travel time. (less than 1 hour on all routes)
- Saving of up to 8% of employee transportation costs.