

POST-PANDEMIC SCHOOL BUS TRANSPORTATION: CHALLENGES AND HOW TO OVERCOME THEM



CONVENTIONAL CHALLENGES

- Lengthy commute adds stress to the student's packed schedules

- Rash Driving
Sudden Breaking,
Overspeeding,
Idling, Drunk-
Driving

- In-vehicle bullying,
playing in the bus



- Erratic arrival and departure timings mess

- Little to no visibility over vehicle movement

- No updates for traffic, engine breakdown, or any other reason

POST-PANDEMIC CHALLENGES

- Observing social distancing is difficult
- Common surfaces such as doors, seats, etc. are touched by all
- Is everyone wearing their mask at all times?



SOLUTIONS

01

Ensure compliance with COVID-19 safety protocols with in-vehicle monitoring

02

Automated systems can proactively alert managers when sanitization resources are due to be replenished

03

In-vehicle monitoring can identify instances of safety protocol violations and bullying

04

Automated route planning minimizes transit time and adjusts for unforeseen traffic contingencies such as VIP pass-by, on-road congestion, unavoidable detours, etc.

05

Admins and parents receive real-time updates in case the driver exhibits undesirable behaviour (rash driving, over-speeding, etc.)

06

Automated systems update the real-time location of the school bus; sends alerts in advance about its estimated time of arrival/departure

07

Admins and parents can keep track of the school bus in real-time; any deviation from the planned route or momentum gets instantly reflected on the app



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