

# From Manual to Modern: How a Vehicle Manufacturer Boosted Efficiency with Real-Time Tracking

## At a Glance

A North American vehicle manufacturer's truck assembly plant was grappling with inefficiencies in post-assembly quality float due to manual processes causing extended search times and productivity issues. The manufacturer adopted Cognosos' real-time vehicle tracking technology to streamline and enhance the repair quality and process.

## IMPACT

Estimated **\$500K** reduction in costs

**20% reduction** in vehicle moves per repair

**5%–10% reduction** in dwell time

**Reduction** in time-to-repair metric

## Their Business Challenges

**HIGH VOLUME:** Over a hundred vehicles were awaiting repair at any given time, causing congestion alongside fully assembled trucks.

**MANUAL TRACKING:** The manufacturer relied on printed lists and colored tags, involving VIN comparisons for locating vehicles.

**EXTENDED SEARCH TIMES:** Metrics consistently indicated prolonged and unpredictable durations for vehicle location, impacting overall efficiency.

**PRODUCTIVITY IMPACT:** 'TIME TO LOCATE' and 'MEAN TIME TO REPAIR' metrics suffered, disrupting repair station operations.

**OPERATIONAL DISRUPTIONS:** Repair stations occasionally paused work, awaiting delivery of specific vehicles, further hampering productivity.

## Cognosos Solution Implementation



**EQUIPMENT:** Encompassing 2,000 GPS tracker tags, 'Gateways' acting as routers with long-range antennae, and 'Activators' providing location data in GPS-challenged environments.



**SOFTWARE:** Featuring smartphone apps for Apple and Android, the Cognosos portal for dashboard access, a Cloud data repository, web-based reporting applications for thorough data analysis, and REST APIs for seamless data exchange with the manufacturer's enterprise systems.



**SUPPORT:** A dedicated project manager and support provider serving as the director of customer field operations, available customer operations engineers, and unlimited access to Cognosos' support team via email or phone.

## An Ongoing Partnership

In response to post-pandemic automotive component shortages and a rise in the 'build-shy' ratio, the truck assembly plant extended the Cognosos solution to track both 'build-shy' vehicles and their required components, leading to a broader implementation across the plant's finished vehicle logistics operations and remote storage yards.

To learn more about real-time vehicle visibility: [cognosos.com/finished-vehicle-logistics](https://cognosos.com/finished-vehicle-logistics)

