

Empirical Study

Vehicle Utilisation - Booking System versus GPS data

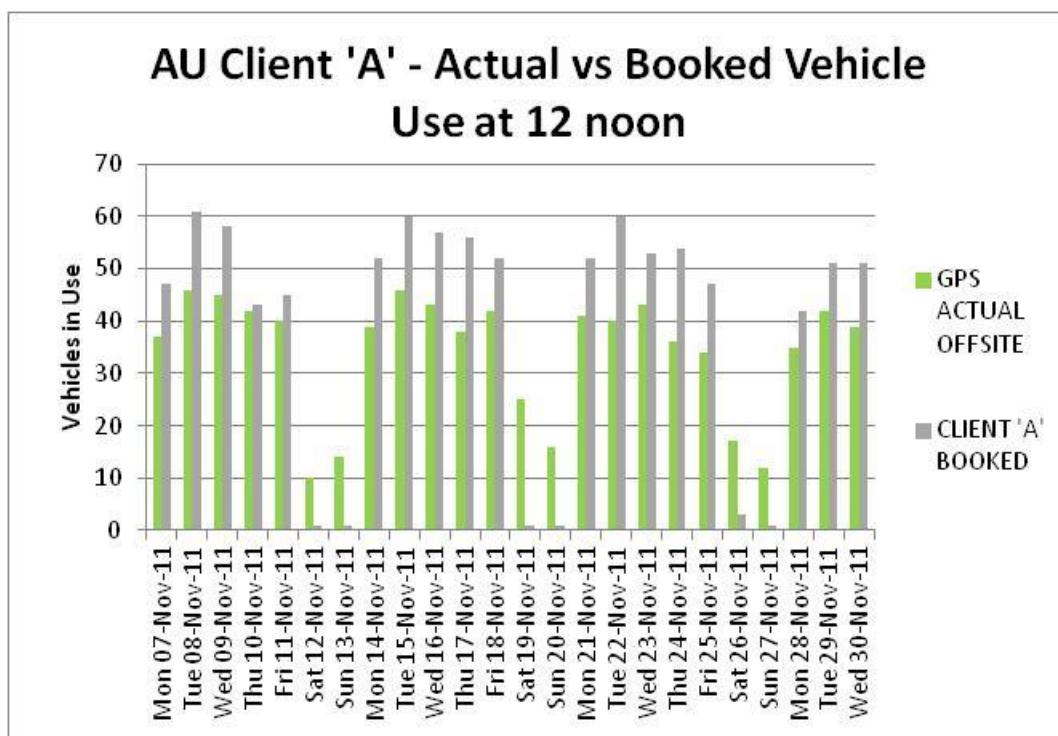
Alfred Health - Melbourne Australia

Vehicle booking systems are often assumed to be a reliable data source on which to determine optimal fleet size. Until now, no one has actually run the numbers to verify that this is true.

Alfred Health asked Bishop Fleet Optimization to compare its fleet booking system accuracy with GPS-based fleet utilisation audit data gathered during the same period.

Figure 1 displays the results.

FIGURE 1: Booking System/GPS Data Utilisation Comparison



Key Findings:

- The booking system [grey bars] over estimated actual vehicle utilisation [green GPS bars] by 30% or more at times on weekdays.
- GPS audit vehicle surpluses typically average 21% with a 14%-37% range so a 30% booking system error rate means the data is too unreliable to find surplus vehicles.

- Overbooking occurred due to staff not collecting vehicles if meetings are cancelled or staff are off work sick.
- The graph shows significant under estimates over weekends. Vehicles were not supposed to be used over weekends at all but vehicles were taken offsite without making a booking system entry. A thorough weekend use review was undertaken as a result.

For more information, please contact Derrick Bishop, Global Managing Director at Bishop Fleet Optimization.

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