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## Resource Optimization Case Study

An Ankota case study

Ankota recently visited with a DME delivery operation with 21 drivers and performed a study to determine the benefit of Healthcare Delivery Management Resource Optimization on their operation. This is a study that Ankota can run free of charge to other prospects and will help you create the justification you'll need for your Ankota implementation.

The study was performed using actual data from the DME operation as a baseline as summarized here:

- 21 Drivers/Vans
- 357 Deliveries
- 2,231 miles driven
- 49.3 hours of driving
- 29 hours of route planning

### Resource Optimization Results

In order to determine the potential savings, Ankota evaluated three scenarios. The first was to apply Ankota's route optimization algorithms to each of the routes driven by the drivers, respecting all committed delivery windows. This resulted in a 13% reduction in mileage and driving time and mileage driven, plus savings of an hour per driver per day spent on route planning. The annual savings for this approach was \$196K per year<sup>1</sup>

The next scheduling improvement scenario was to allow Ankota to assign the best resource for each task. This approach resulted in dramatic savings of over 30% in both mileage and driving time and the same hour per day per driver reduction in planning time. Expected savings per year with this approach was \$289K<sup>1</sup>.

Ankota is finding that most home health organizations are seeing their number of patients grow and want to be able to do more with their current staff. Having said that, we computed a scenario to see how much of their current capacity could be freed up and made available for new work. The study showed that their current work could be done with 14 drivers rather than 21, freeing 1/3<sup>rd</sup> of their work force for more patients. This approach resulted in less of a mileage decrease than the previous scenario (28% mileage reduction) but when you factor in the savings due to increased fleet size, the savings for this approach was \$486K.

Baseline	Route Optimization		Schedule Optimization		Capacity Increase	
Drivers:	21	21 →0%	21	→0%	14	↓33%
Miles:	2,231	1,921 ↓13.9%	1,442	↓35.39%	1,599	↓28.34%
Drive Time:	49.3	42.7 ↓13.19%	34.0	↓31.03%	36.7	↓25.56%
Annual Savings:	---	\$196K		\$289K		\$486K

### Conclusion and Call to Action

The COO of this organization commented that every software vendor she sees tells her that their software will save money and that this is the first time it actually does. Ankota Healthcare Delivery management wants to help your organization to provide better care to more patients with lower reimbursement and ultimately at lower cost. To run this analysis for your organization, please contact Ankota at 800.909.9866 or by emailing [sales@ankota.com](mailto:sales@ankota.com).

<sup>1</sup> Based on \$20/fully burdened labor rate, \$0.52 cents per mile and \$500/month vehicle lease rates