



BACKGROUND

INTRODUCTION

The University of Washington Housing and Food Services (UW HFS) and Bay Laurel Catering (BLC) are responsible for two main catering processes:

- 1) Grab-N-Go Catering Around Campus Caters to 15 campus-wide locations
- Occurs Mon Fri (full & semi-full route), and Sat (small route)
- Multiple standard runs made per full and semi-full route
- Products should be kept in appropriate temperature upon delivery • Uses 1 Dodge Sprinter vehicle and worked by 1 student and 1 truck driver

2) Daily Catering Events

- Start as early as 5:30 AM to as late as 9:30 PM
- Events are spontaneous, vary by time, type, size, and location • Uses a fleet of 7 vehicles to transport people and catering items 5 Isuzu Box Trucks with lift gates
- 1 Ford Transit with lift gate
- 1 Dodge Sprinter with no lift gate (same truck as Grab-N-Go)
- 9 different types of events Alcohol, Breakfast, Breaks, Box Lunches, Coffee Breaks, Dinner, Lunch, Miscellaneous, and Reception.

Goal: develop solutions to evaluate and improve their fleet of vehicles in terms of Grab-N-Go process and daily catering process to cater to their future growth.



Business







Grab-N-Go & 5,400 Annual Catering Events





METHODOLOGY

GR	GRAB-N-GO			
	Data llection	 Interviews with BLC staff and leadership to understand current daily routes, timing, and labor cost data. Obtain travel times from Google Maps 		
De	Base Model sign & rification	 Build current state model using Simio Model verification and validation interviews with BLC staff and leadership Ride-alongs to verify routes & timings. 		
Sug Imp	Fest ggested provements ng Simio	 Addition of refrigeration to vehicle Remove accompanying student worker on Grab-n-Go runs 		
Be	Cost- nefit alysis	 Gather and evaluate cost, timing, and vehicle utilization data from Improvement Simo models using Simio Experiments to determine if changes are feasible. 		

CATERING

1. Data Collection	 Collect relevant event information from BLC's Banquet Event Orders (BEO) and their Grand Catering Schedule Obtain travel times from Google Maps. 		
2. Base Model Design & Verification	 Build current state model using Simio Validate base model's metrics with BLC's historical data Model verification and validation interviews with BLC staff and leadership 		
3. Test Suggested Improvements using Simio	 Addition of truck(s) to the current fleet Subtraction of truck(s) from the current fleet 		
4. Cost- Benefit Analysis	efit the Improvement Simio models using Simio Experiments to determine if chance		

OBJECTIVE

An analysis of the current state and suggested improvements of the Grab-N-Go delivery vehicle, delivery route, and surrounding processes. Specific goals include reducing labor costs, evaluating the effect of adding refrigeration to the delivery vehicle, and maintaining a high level of quality and service for Bay Laurel's customers.

CURRENT STATE

- **3 Base Simio Models:**
- Mon, Wed, Thurs Base Model: Replicates the four runs of BLC's Grab-N-Go full route. (See Figure 1) Tues, Fri Base Model: Replicates the three runs of BLC's Grab-N-Go semi-full route. **Sat Base Model:** Replicate the one run of BLC's Grab-N-Go small route. After each run, the vehicle returns to BLC's base at Haggett Hall to reload for the next run. This is to prevent the food inside the vehicle from reaching unacceptable temperatures.

- **Model Assumptions:**
- The route remains the same every week.
- TAT HOUSING & FOOD SERVIC UNIVERSITY of WASHINGTON

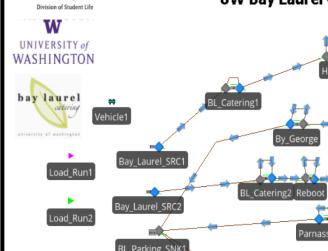
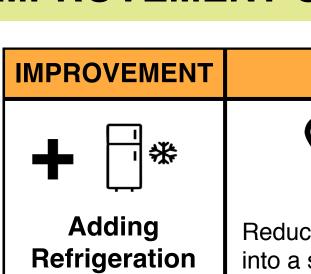
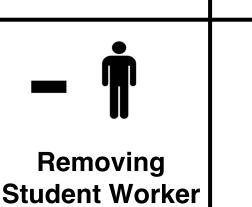


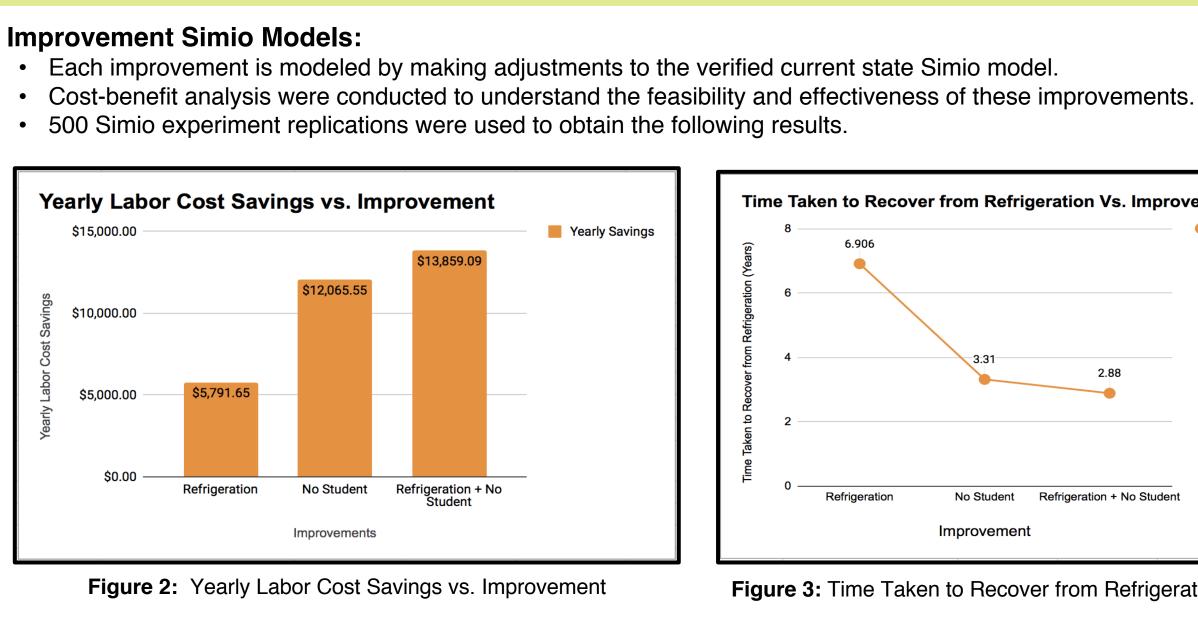
Figure 1: Mon, Wed, Thurs

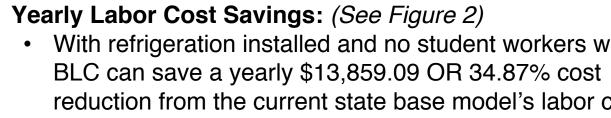
IMPROVEMENT OPPORTUNITIES





FINDINGS





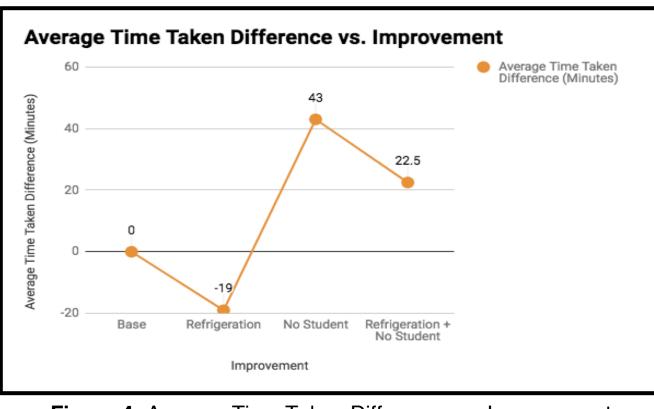


Figure 4: Average Time Taken Difference vs. Improvement **Average Time Taken Difference:** (See Figure 4) • With refrigeration, BLC can decrease total time taken by 19 minutes as compared to the current state base. But with no student, it takes BLC an additional 43 minutes to complete the Grab-N-Go tasks.

UW HFS Bay Laurel Catering Transportation Fleet Optimization Ben King, Megan Hoo, Stephen Lam, Yifu Liao, Sean Ng

GRAB-N-GO

- Uses the same Dodge Sprinter vehicle with no refrigeration and no lift gate for delivery.
- Students are present 95% of the time, and absent 5% of the time.

Base Model Results & Validation: UW Bay Laurel Catering Grab-N-Go System

rel Catering Grab-N-(Go System				
1111		C		Base Model	Real World
HUB District_Market	Student	Student_Present	Total Time Taken (Full Route)	5 Hrs 9 Mins	5 Hrs 15 Mins
rge Burke_Museum	Number Of Student Workers Number Of Workers (Drivers) Runs Completed	ent_Not_Present	Total Time Taken (Semi-Full Route)	4 Hrs 4 Mins	4 Hrs 10 Mins
boot Law_School_Supre		0 0 0	Total Time Taken (Small Route)	55.52 Mins	1 Hour
tes Rotunda	Total Time Taken For Run 4 Sum of Time Taken For Al Runs Model's Total Time Taken	0 0 0	Yearly Labor Cost	\$39,744.96	\$40,928.00
rpass_Court South_Lake_Union	TimeReboot First Vehicle's Utilization LaborCostPerDay'	0 0 0	Average Vehicle Utilization	67.87%	N/A
s Base Model design showcase					

	Pros		Сс	ons
Ce multiple runs	**	More profitable in long term	Initial cost is a hefty \$40,000	Takes time to break even
Eliminate da	aily labor cost al	located	Run takes additional 45 mins to complete	Induces more stress on driver to complete tasks single-handedly

- Each improvement is modeled by making adjustments to the verified current state Simio model.

- With refrigeration installed and no student workers working, reduction from the current state base model's labor costs

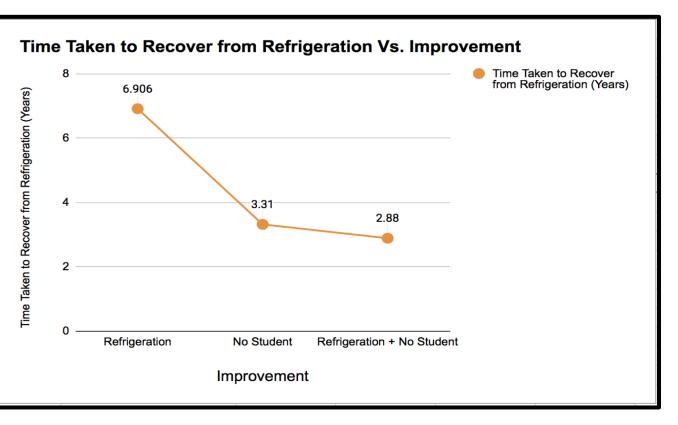
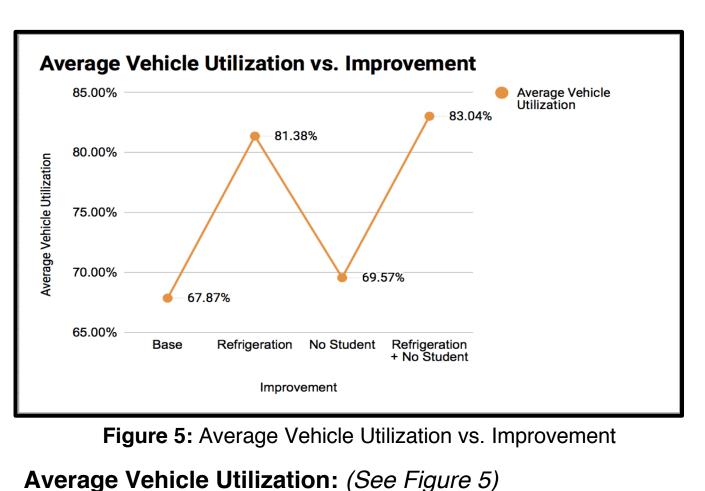


Figure 3: Time Taken to Recover from Refrigeration vs. Improvement

Time To Recover from Refrigeration Costs: (See Figure 3) • BLC can recover refrigeration costs 4 years faster with no student workers working than with students working.



 Under the refrigeration and no student improvement, vehicle utilization increased from 67.87% to 83.04%.

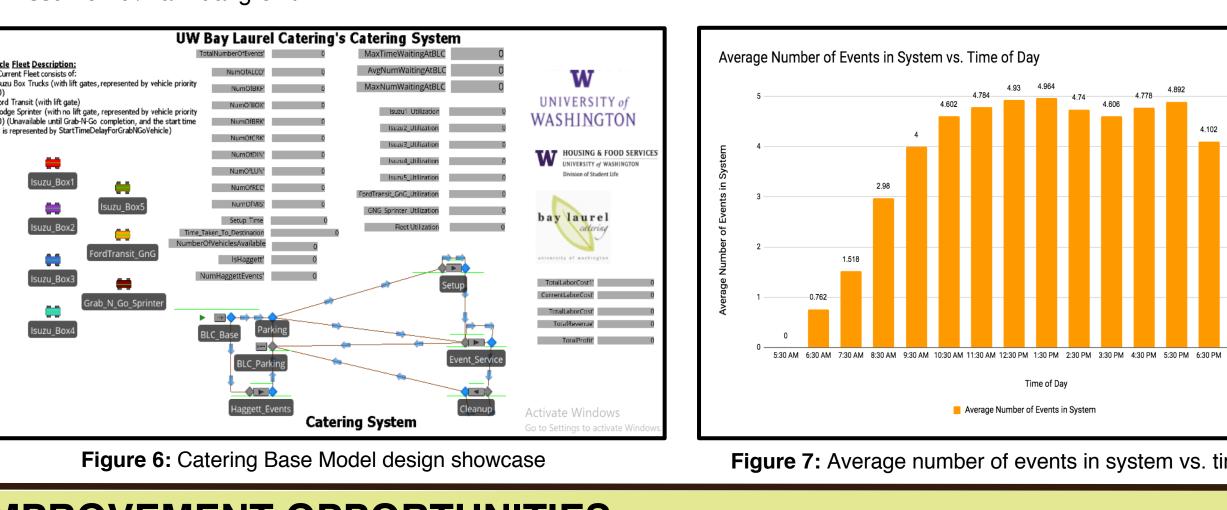
CAT

OBJECTIVE

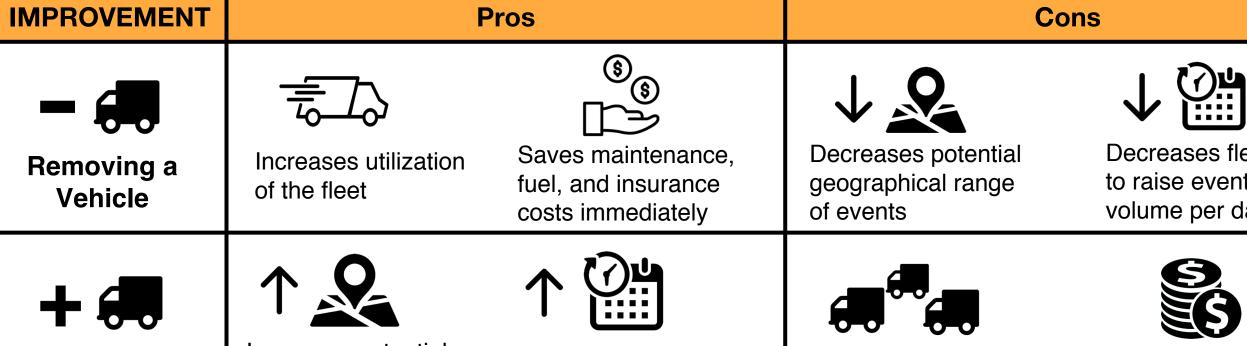
An analysis of the current state and suggested improvements processes, in terms of fleet utilization rate, labor cost, profit, a exploration of the effects of altering fleet size while catering

CURRENT STATE

- **Current State Simio Model Design & Assumptions:**
- All incoming events use the same catering system that inclu Events arrive on random from 5:30 AM to 9:30 PM according historical real world data. (See Figure 7)
- Vehicles have daily work schedule that starts from 5:30 AM
- Take into account labor cost for working events & driving or Assume max average fleet utilization at 80%
- Assume no scheduling capabilities and vehicles are reserv
- Assume 10% annual growth



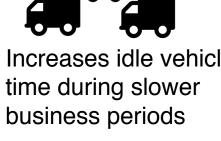
IMPROVEMENT OPPORTUNITIES



Adding a Vehicle

Increases potential geographical range of events







FINDINGS

Base Fleet (7 Vehicles):

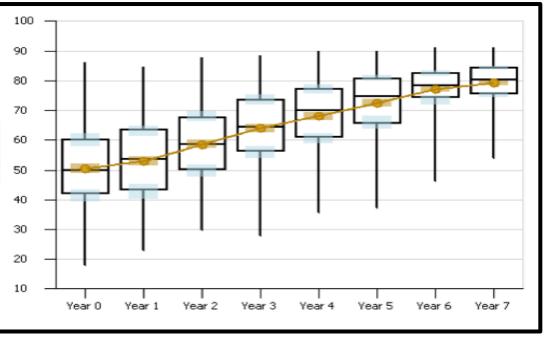


Figure 8: 7-Vehicle Fleet Utilization vs. Yearly Business Growth



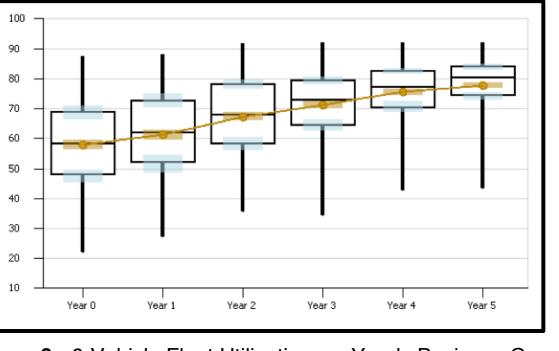
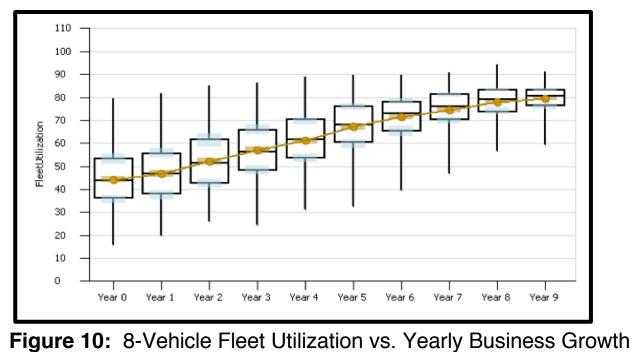


Figure 9: 6-Vehicle Fleet Utilization vs. Yearly Business Growth

Adding a Vehicle (8 Vehicles):



ERING			RECOMMENDATIONS
s of the performance of BLC	2's astoring float or	d ita managamant	GRAB-N-GO
and total number of events ring to the 10% annual bu	per day. Specific g	-	The model suggests: Combination of:
			1) ADDING REFRIGERATION TO THE DELIVERY VEHICLE
			2) REMOVING THE ACCOMPANYING STUDENT WORKER FROM THE DAILY GRAB-N-GO ROUTE
cludes a setup, service, and	•		 improve both the efficiency of the routing and reduce the labor
ding to a rate table consistir		rates obtained from	costs associated with Grab-N-Go delivery.
M to 9:30PM or until the lag only	st event is worked.		
rved until event finishes			ADD ADD REMOVE STUDENT REFRIGERATION WORKER
Average Number of Events in S of ON		4.778 4.892	\$13,859.09 83.04% 2.88 years Yearly Savings Vehicle Utilization To Recover Costs
DD SERVICES HINGTON 6 2.98	4	3.364	CATERING
Image: Second		1.434	Fleet ScenariosYears of Potential 10% GrowthMax Potential Profit Per Year GainProfit Gain %
0 5:30 AM 6:30 AM 7:30 AM 8:30 AM	9:30 AM 10:30 AM 11:30 AM 12:30 PM 1:30 PM 2:30 PM 3:	30 PM 4:30 PM 5:30 PM 6:30 PM 7:30 PM 8:30 PM 9:30 PM	Base Fleet 7 years \$3,854,138,78 98%
S te Windows	Time of Day Average Number of Events in System		(7 venicies)Reduce Fleet5 years\$2 483 974 0663%
Figure 7: Average	number of events in	system vs. time of day	(6 Venicies)
			(8 Vehicles) 9 years \$5,336,053.10 137%
	Cons		The model suggests: 1) RETAIN THE CURRENT FLEET SIZE FOR NOW
	0		
intenance, Decrease	es potential	Decreases flexibility	
nediately of events		to raise event volume per day	7 Years Potential Growth Before Maxing Out\$3.9mil → \$7.8 mil Potential Profit Per Year98% Potential Profit Gain
			2) EXPAND BUSINESS GROWTH RATE FIRST, THEN ADD
		dditional annual	
event time durin er day business	•	naintenance, fuel, nd insurance costs	$ F \xrightarrow{()} \rightarrow () \xrightarrow{()} \rightarrow ()$
			BUSINESS VOLUME OF
			GROWTH EVENTS ADD VEHICLE INCREASE
			8 🚚
Metrics	Current State	Max Potential Growth	
Average Fleet Utilization	50.49%	79.31%	9 Years \$3.9mil → \$9.2 mil 137%
Total Events Per Day Total Events Per Year	18.31 Events 5601 Events	35.46 Events 10,850 Events	9 Years \$3.9mil → \$9.2 mil 137% Potential Growth Potential Profit Potential
Labor Cost Per Year	\$463,727.64	\$905,528.76	Before Maxing Out Per Year Profit Gain
Motorpool Cost Per Year	\$36,414.00	\$70,960.58	 3) DON'T HAVE TO SELL-OFF/REDUCE VEHICLE With steady 10% growth, it is unwise to sell-off or reduce current
Revenue Per Year	\$4,421,231.82	\$8,751,718.30	 fleet size because of business growth potentials with larger fleet. Maintenance, fuel, and insurance (Motorpool) costs are minimal
Profit Per Year	\$3,921,090.18	\$7,775,228.96	 Maintenance, ruer, and insurance (Motorpool) costs are minimal compared to potential growth. Not worth the sell-off profit and vehicle repurchase costs later on.
Metrics	Current State	Max Potential Growth	
Average Fleet Utilization	57.90%	77.82%	FUTURE
Total Events Per Day	18.27 Events	29.13 Events	
Total Events Per Year	5589 Events	8912 Events	CONSIDERATIONS
Labor Cost Per Year	\$461,882.06	\$736,093.71	GRAB-N-GO
Motorpool Cost Per Year	\$31,212.00	\$50,267.24	 Explore route changes in daily Grab-N-Go routes.
Sold Vehicle Revenue	\$10,000	N/A	 Determine improvements to daily physical process, such as
Revenue Per Year	\$4,408,027.12	\$7,204,268.07 \$6,417,007,12	loading and unloading during delivery.
Profit Per Year	\$3,933,933.06	\$6,417,907.12	CATERING
	Current State	Max Potential Growth	 Explore better event scheduling and fleet allocation system. Determine improvements to daily physical process, such as
Metrics		79.50%	loading, unloading, setup, and cleanup during catering events.
Metrics Average Fleet Utilization	44.37%		
	44.37% 18.38 Events	42.76 Events	
Average Fleet Utilization		42.76 Events 13083 Events	ACKNOWLEDGEMENT
Average Fleet Utilization Total Events Per Day	18.38 Events	<u>├</u>	
Average Fleet Utilization Total Events Per Day Total Events Per Year	18.38 Events 5624 Events	13083 Events	 Prof. Patty Buchanan – For the continuous guidance, moral, and physical support, in terms of the progress of the model and helping us stay on track.
Average Fleet Utilization Total Events Per Day Total Events Per Year Labor Cost Per Year	18.38 Events 5624 Events \$464,543.83	13083 Events \$1,086,931.68	 Prof. Patty Buchanan – For the continuous guidance, moral, and physical support, in terms of the progress of the model and helping us stay on track. Mr. Dan Faires – For the patience and continuous support in providing our team with clarification for our questions and guiding us through the
Average Fleet Utilization Total Events Per Day Total Events Per Year Labor Cost Per Year Motorpool Cost Per Year	18.38 Events 5624 Events \$464,543.83 \$41,616.00	13083 Events \$1,086,931.68 \$98,128.35	 Prof. Patty Buchanan – For the continuous guidance, moral, and physical support, in terms of the progress of the model and helping us stay on track. Mr. Dan Faires – For the patience and continuous support in providing our team with clarification for our questions and guiding us through the complicated processes of Bay Laurel Catering. Mr. Trent W. – For patience in clarification and verifying our questions and
Average Fleet Utilization Total Events Per Day Total Events Per Year Labor Cost Per Year Motorpool Cost Per Year Additional Vehicle Cost	18.38 Events 5624 Events \$464,543.83 \$41,616.00 \$65,000.00	13083 Events \$1,086,931.68 \$98,128.35 N/A	 Prof. Patty Buchanan – For the continuous guidance, moral, and physical support, in terms of the progress of the model and helping us stay on track. Mr. Dan Faires – For the patience and continuous support in providing our team with clarification for our questions and guiding us through the complicated processes of Bay Laurel Catering.

	5			RECOMMENDATIONS
				GRAB-N-GO
and total number of	of events	per day. Specific g	id its management bals include an	The model suggests:
ring to the 10% a	innual bu	siness growth.		Combination of: 1) ADDING REFRIGERATION TO THE DELIVERY VEHICLE
				2) REMOVING THE ACCOMPANYING STUDENT WORKER
•		d cleanup "stations'	· · · · · · · · · · · · · · · · · · ·	 FROM THE DAILY GRAB-N-GO ROUTE improve both the efficiency of the routing and reduce the labor
•		•	rates obtained from	costs associated with Grab-N-Go delivery.
<u>.</u>	intil the las	st event is worked.		
only	hich c -			
rved until event fin				ADD REMOVE STUDENT REFRIGERATION WORKER
of ON	ber of Events in Sy	ystem vs. Time of Day	4.778 4.892	\$13,859.09 83.04% 2.88 years Yearly Savings Vehicle Utilization To Recover Costs
DD SERVICES HINGTON e CI Stuard Start Jo	2.98		3.364	CATERING
Average Number	0.762		1.434	Fleet ScenariosYears of Potential 10% GrowthMax Potential Profit Per Year GainProfit Gain %
0 0 5:30 AM	6:30 AM 7:30 AM 8:30 AM 9:		30 PM 4:30 PM 5:30 PM 6:30 PM 7:30 PM 8:30 PM 9:30 PM	Base Fleet (7 Vehicles) 7 years \$3,854,138.78 98%
S te Windows.		Time of Day Average Number of Events in System		Reduce Fleet (6 Vehicles) 5 years \$2,483,974.06 63%
Figure	7: Average	number of events in	system vs. time of day	(o venicies)
				(8 Vehicles) 9 years \$5,336,053.10 137%
		Cons		The model suggests: 1) RETAIN THE CURRENT FLEET SIZE FOR NOW
	1	9_		
intenance,		1	Decreases flexibility	
	geograph of events	•	o raise event volume per day	7 Years Potential Growth Before Maxing Out\$3.9mil → \$7.8 mil Potential Profit Per Year98% Potential Profit Gain
				2) EXPAND BUSINESS GROWTH RATE FIRST, THEN ADD
- ··· J ·			dditional annual	ANOTHER VEHICLE
	time durin business	•	naintenance, fuel, nd insurance costs	$\mathbb{I} \mathbb{F} \xrightarrow{\mathbb{S}} \mathbb{I} \xrightarrow{\mathbb{S}} \mathbb{I} \xrightarrow{\mathbb{S}} \mathbb{I}$
1				
				GROWTH EVENTS ADD VEHICLE INCREASE
Metrics		Current State	Max Potential Growth	
Average Fleet U	tilization	50.49%	79.31%	
Total Events P	-	18.31 Events	35.46 Events	9 Years \$3.9mil → \$9.2 mil 137% Potential Growth Potential Profit Potential
Total Events Po		5601 Events	10,850 Events	Potential GrowthPotential ProfitPotentialBefore Maxing OutPer YearProfit Gain
Labor Cost Pe Motorpool Cost		\$463,727.64 \$36,414.00	\$905,528.76 \$70,960.58	 3) DON'T HAVE TO SELL-OFF/REDUCE VEHICLE With steady 10% growth, it is unwise to sell-off or reduce current
Revenue Per		\$36,414.00	\$70,960.58 \$8,751,718.30	fleet size because of business growth potentials with larger fleet.
Profit Per Y		\$3,921,090.18	\$7,775,228.96	 Maintenance, fuel, and insurance (Motorpool) costs are minimal compared to potential growth.
				 Not worth the sell-off profit and vehicle repurchase costs later on.
Metrics	6	Current State	Max Potential Growth	
Average Fleet U		57.90%	77.82%	FUTURE
Total Events F	-	18.27 Events	29.13 Events	
Total Events P		5589 Events	8912 Events	CONSIDERATIONS
Labor Cost Pe		\$461,882.06 \$31,212.00	\$736,093.71 \$50,267.24	GRAB-N-GO
Motorpool Cost Per Year Sold Vehicle Revenue		\$31,212.00	\$30,207.24 N/A	 Explore route changes in daily Grab-N-Go routes. Determine improvements to daily physical process, such as
Revenue Per Year		\$4,408,027.12	\$7,204,268.07	 Determine improvements to daily physical process, such as loading and unloading during delivery.
Profit Per Year		\$3,933,933.06	\$6,417,907.12	CATERING
				 Explore better event scheduling and fleet allocation system.
Metrics	6	Current State	Max Potential Growth	 Determine improvements to daily physical process, such as loading, unloading, setup, and cleanup during catering events.
Average Fleet U		44.37%	79.50%	
Total Events F		18.38 Events	42.76 Events	ACKNOWLEDGEMENT
Total Events P		5624 Events	13083 Events	
Labor Cost Pe		\$464,543.83	\$1,086,931.68 \$08,128,25	 Prof. Patty Buchanan – For the continuous guidance, moral, and physical support, in terms of the progress of the model and helping us stay on track.
Motorpool Cost Additional Vehi		\$41,616.00 \$65,000.00	\$98,128.35 N/A	 Mr. Dan Faires – For the patience and continuous support in providing our team with clarification for our questions and guiding us through the
Revenue Per		\$4,473,248.55	\$10,423,201.84	 complicated processes of Bay Laurel Catering. 3. Mr. Trent W. – For patience in clarification and verifying our questions and
Profit Per		\$3,902,088.71	\$9,238,141.81	 a. UW HFS Bay Laurel Catering – For providing us with a space for group
		. ,	. , ,	meetings and free drinks.

ERING			RECOMMENDATIONS
s of the performance of BLC	2's astoring float or	d ita managamant	GRAB-N-GO
and total number of events ring to the 10% annual bu	per day. Specific g	-	The model suggests: Combination of:
			1) ADDING REFRIGERATION TO THE DELIVERY VEHICLE
			2) REMOVING THE ACCOMPANYING STUDENT WORKER FROM THE DAILY GRAB-N-GO ROUTE
cludes a setup, service, and	•		 improve both the efficiency of the routing and reduce the labor
ding to a rate table consistir		rates obtained from	costs associated with Grab-N-Go delivery.
M to 9:30PM or until the lag only	st event is worked.		
rved until event finishes			ADD ADD REMOVE STUDENT REFRIGERATION WORKER
Average Number of Events in S of ON		4.778 4.892	\$13,859.09 83.04% 2.88 years Yearly Savings Vehicle Utilization To Recover Costs
DD SERVICES HINGTON 6 2.98	4	3.364	CATERING
Image: Second		1.434	Fleet ScenariosYears of Potential 10% GrowthMax Potential Profit Per Year GainProfit Gain %
0 5:30 AM 6:30 AM 7:30 AM 8:30 AM	9:30 AM 10:30 AM 11:30 AM 12:30 PM 1:30 PM 2:30 PM 3:	30 PM 4:30 PM 5:30 PM 6:30 PM 7:30 PM 8:30 PM 9:30 PM	Base Fleet 7 years \$3,854,138,78 98%
S te Windows	Time of Day Average Number of Events in System		(7 venicies)Reduce Fleet5 years\$2 483 974 0663%
Figure 7: Average	number of events in	system vs. time of day	(6 Venicies)
			(8 Vehicles) 9 years \$5,336,053.10 137%
	Cons		The model suggests: 1) RETAIN THE CURRENT FLEET SIZE FOR NOW
	0		
intenance, Decrease	es potential	Decreases flexibility	
nediately of events		to raise event volume per day	7 Years Potential Growth Before Maxing Out\$3.9mil → \$7.8 mil Potential Profit Per Year98% Potential Profit Gain
			2) EXPAND BUSINESS GROWTH RATE FIRST, THEN ADD
		dditional annual	
event time durin er day business	•	naintenance, fuel, nd insurance costs	$ F \xrightarrow{()} \rightarrow () \xrightarrow{()} \rightarrow ()$
			BUSINESS VOLUME OF
			GROWTH EVENTS ADD VEHICLE INCREASE
			8 🚚
Metrics	Current State	Max Potential Growth	
Average Fleet Utilization	50.49%	79.31%	9 Years \$3.9mil → \$9.2 mil 137%
Total Events Per Day Total Events Per Year	18.31 Events 5601 Events	35.46 Events 10,850 Events	9 Years \$3.9mil → \$9.2 mil 137% Potential Growth Potential Profit Potential
Labor Cost Per Year	\$463,727.64	\$905,528.76	Before Maxing Out Per Year Profit Gain
Motorpool Cost Per Year	\$36,414.00	\$70,960.58	 3) DON'T HAVE TO SELL-OFF/REDUCE VEHICLE With steady 10% growth, it is unwise to sell-off or reduce current
Revenue Per Year	\$4,421,231.82	\$8,751,718.30	 fleet size because of business growth potentials with larger fleet. Maintenance, fuel, and insurance (Motorpool) costs are minimal
Profit Per Year	\$3,921,090.18	\$7,775,228.96	 Maintenance, ruer, and insurance (Motorpool) costs are minimal compared to potential growth. Not worth the sell-off profit and vehicle repurchase costs later on.
Metrics	Current State	Max Potential Growth	
Average Fleet Utilization	57.90%	77.82%	FUTURE
Total Events Per Day	18.27 Events	29.13 Events	
Total Events Per Year	5589 Events	8912 Events	CONSIDERATIONS
Labor Cost Per Year	\$461,882.06	\$736,093.71	GRAB-N-GO
Motorpool Cost Per Year	\$31,212.00	\$50,267.24	 Explore route changes in daily Grab-N-Go routes.
Sold Vehicle Revenue	\$10,000	N/A	 Determine improvements to daily physical process, such as
Revenue Per Year	\$4,408,027.12	\$7,204,268.07 \$6,417,007,12	loading and unloading during delivery.
Profit Per Year	\$3,933,933.06	\$6,417,907.12	CATERING
	Current State	Max Potential Growth	 Explore better event scheduling and fleet allocation system. Determine improvements to daily physical process, such as
Metrics		79.50%	loading, unloading, setup, and cleanup during catering events.
Metrics Average Fleet Utilization	44.37%		
	44.37% 18.38 Events	42.76 Events	
Average Fleet Utilization		42.76 Events 13083 Events	ACKNOWLEDGEMENT
Average Fleet Utilization Total Events Per Day	18.38 Events	<u>├</u>	
Average Fleet Utilization Total Events Per Day Total Events Per Year	18.38 Events 5624 Events	13083 Events	 Prof. Patty Buchanan – For the continuous guidance, moral, and physical support, in terms of the progress of the model and helping us stay on track.
Average Fleet Utilization Total Events Per Day Total Events Per Year Labor Cost Per Year	18.38 Events 5624 Events \$464,543.83	13083 Events \$1,086,931.68	 Prof. Patty Buchanan – For the continuous guidance, moral, and physical support, in terms of the progress of the model and helping us stay on track. Mr. Dan Faires – For the patience and continuous support in providing our team with clarification for our questions and guiding us through the
Average Fleet Utilization Total Events Per Day Total Events Per Year Labor Cost Per Year Motorpool Cost Per Year	18.38 Events 5624 Events \$464,543.83 \$41,616.00	13083 Events \$1,086,931.68 \$98,128.35	 Prof. Patty Buchanan – For the continuous guidance, moral, and physical support, in terms of the progress of the model and helping us stay on track. Mr. Dan Faires – For the patience and continuous support in providing our team with clarification for our questions and guiding us through the complicated processes of Bay Laurel Catering. Mr. Trent W. – For patience in clarification and verifying our questions and
Average Fleet Utilization Total Events Per Day Total Events Per Year Labor Cost Per Year Motorpool Cost Per Year Additional Vehicle Cost	18.38 Events 5624 Events \$464,543.83 \$41,616.00 \$65,000.00	13083 Events \$1,086,931.68 \$98,128.35 N/A	 Prof. Patty Buchanan – For the continuous guidance, moral, and physical support, in terms of the progress of the model and helping us stay on track. Mr. Dan Faires – For the patience and continuous support in providing our team with clarification for our questions and guiding us through the complicated processes of Bay Laurel Catering.

