



INTRODUCTION

The University of North Georgia (UNG) currently provides desktops to all of its staff and faculty members. As a pilot program, we want to replace *all* existing desktops with laptops upon the warranty expirations per computer – this will occur over the next 4 years.

By transitioning the university standard to laptops this will: reduce the university’s carbon footprint; reduce overall costs for the university; and allow the faculty to embrace a more flexible work-life-balance. More working from home will also eliminate cars off the road...additional carbon reduction!

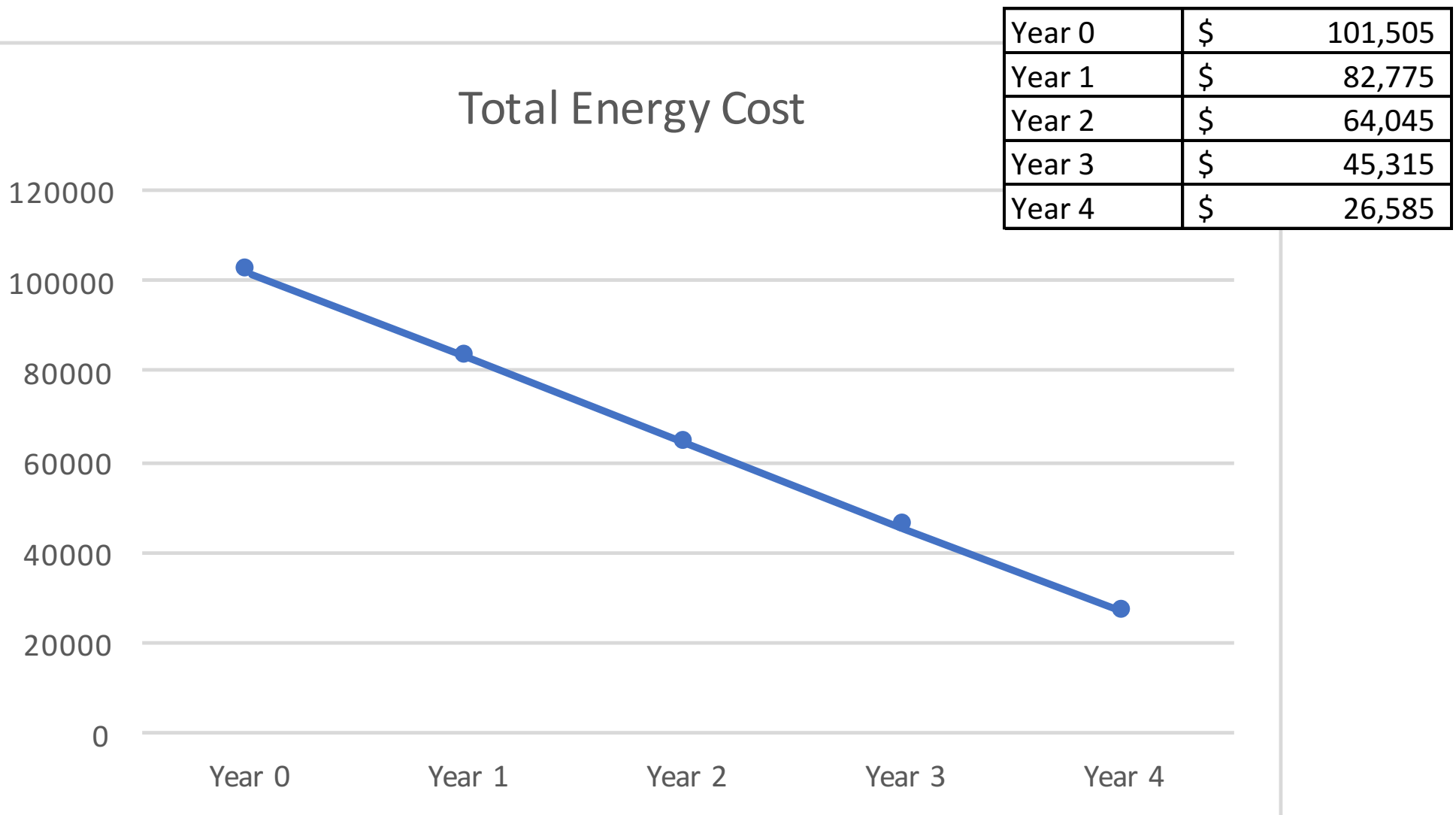
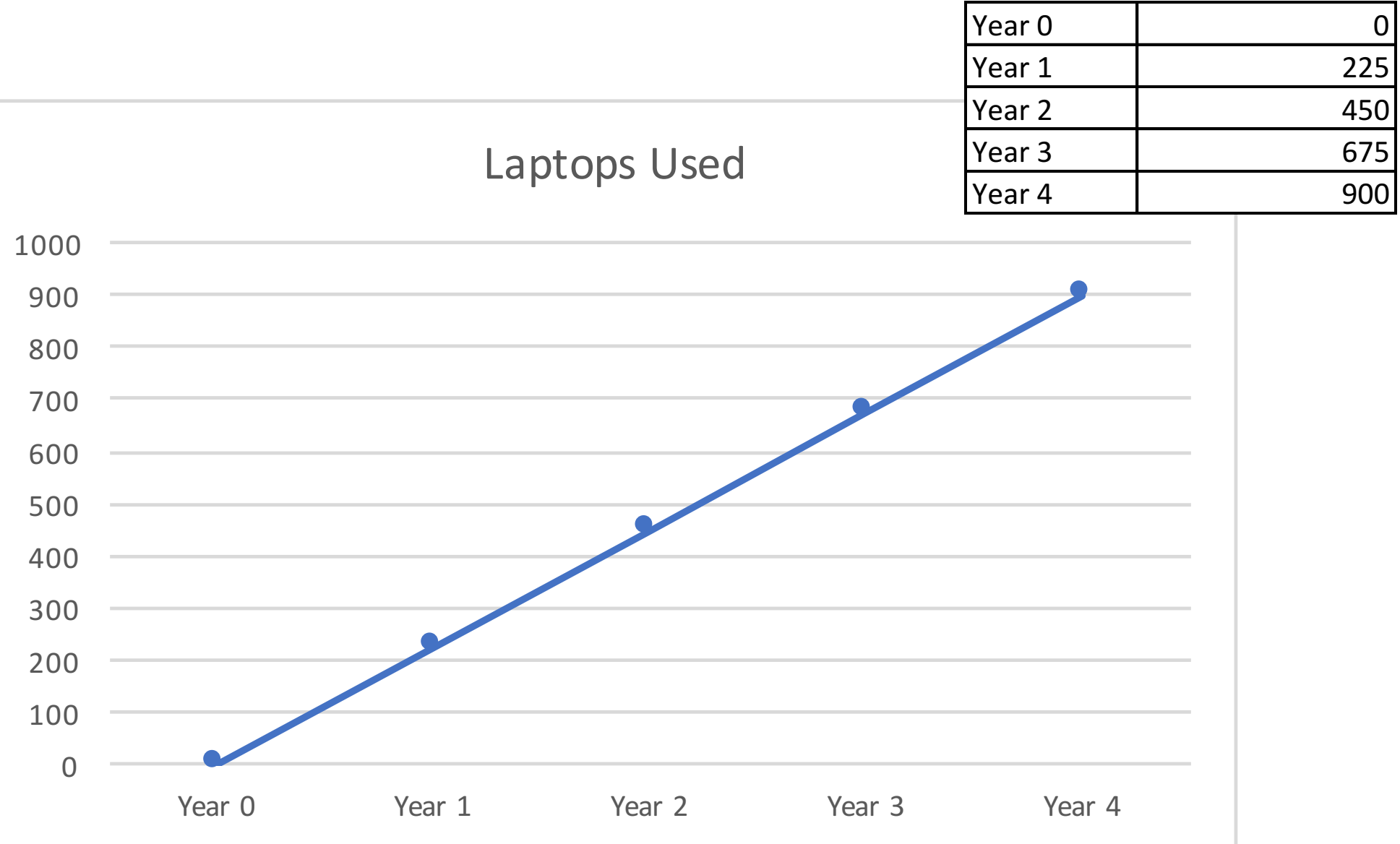
We view this as a pilot program. If successful at the Dahlonega campus, we plan to implement the entire initiative across the all five campuses within the University of North Georgia system.

WARM YOUR LAPS, NOT THE PLANET

Braden Beaudreau, Corey Conklin, Richard Henry

WHY THE UNIVERSITY CARES

As an educator, they have the opportunity to change the precedent and engage in the conversation. This initiative will set the stage for future leaders and members of the university system to make a lasting impact.



Considerations:

- Setting a new precedent as “forward thinking”
- Reducing total energy costs per employee
- Reducing carbon foot-print
- Making a stand for a more sustainable future
- Allowing faculty and staff more flexible options
- Attracting and retaining talent

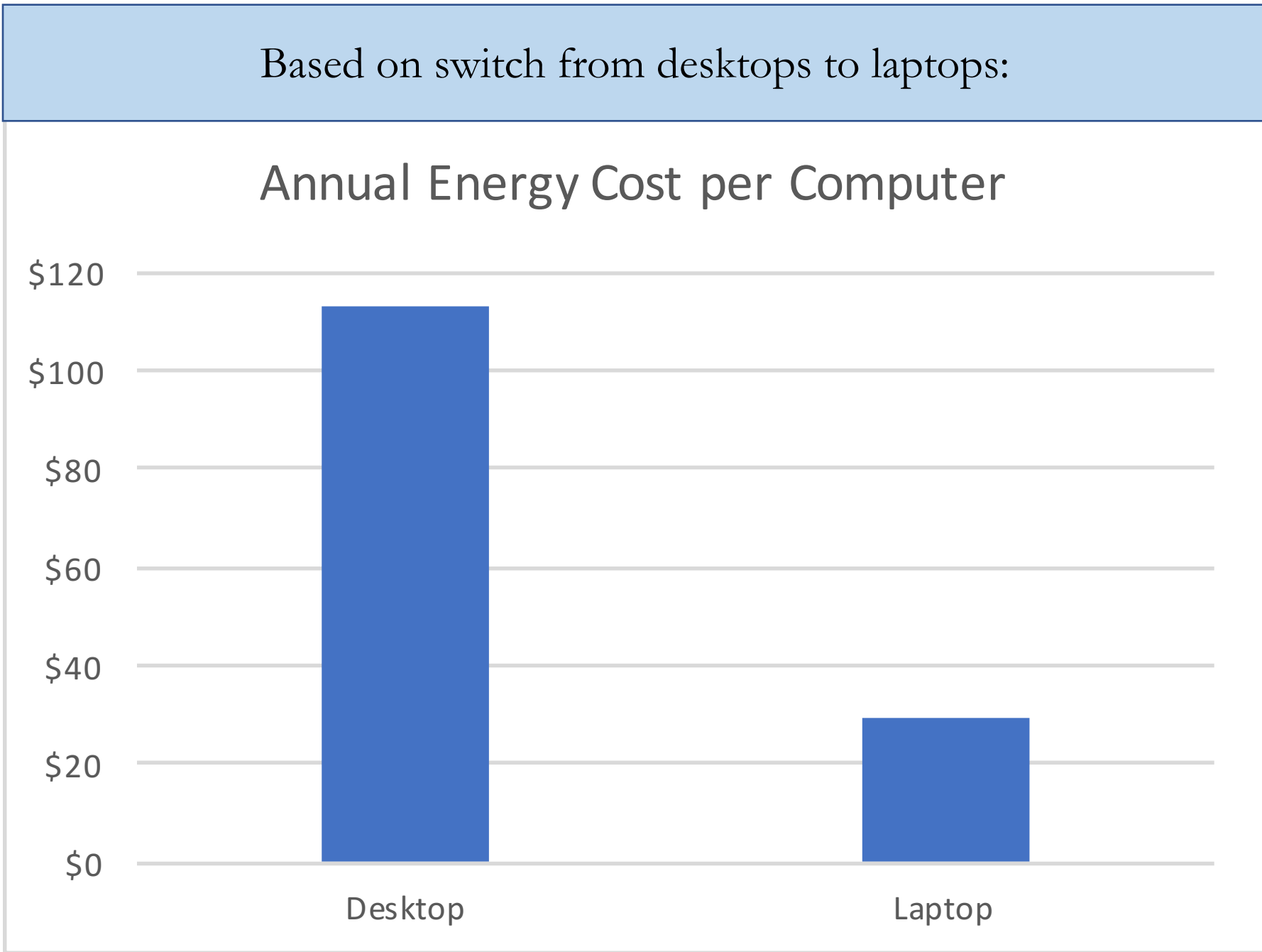
FINANCIAL CALCULATIONS

Annual Energy Cost Savings:

- \$74,920.20 across all computers
- \$83.24 per computer

Cost of Computers:

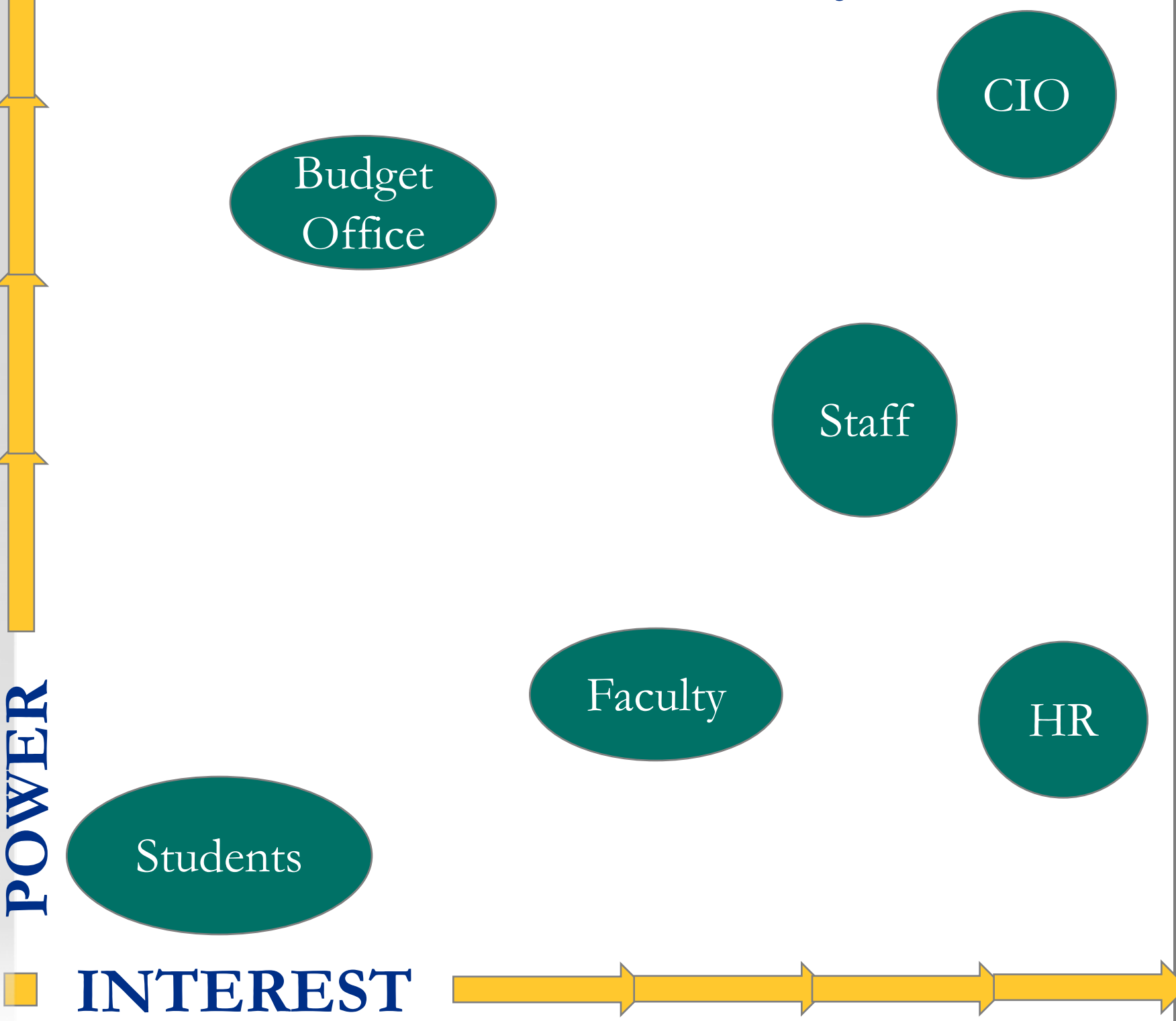
- Dell Optiplex 7040 (Desktop)
 - Cost: \$986
 - Dell Latitude 7480 (Laptop)
 - Cost: \$1,439 (with docking station)
- Cost Difference: \$453**



Current Status

- Phone calls with IT, HR and the budget offices have been conducted. (*Purchasing department and operations budget work in conjunction*)
- Save on Operations Budget = Spent a little more on the Purchasing Budget

Stakeholder Analysis



Next Steps

- Confirming with Dell representatives as to the anticipated discount the University of North Georgia can receive – we anticipate roughly 30% discount
- Schedule a meeting with the head of IT (the university’s CIO) to formally communicate our proposal
- Once IT approves, the plan will be submitted to the Director of Administration and Finance

Co-Benefits

- Flexible work schedule – ability to work from home. This will increase morale and overall well-being
- Mobility within the office. Staff and faculty can bring their laptops to meetings and share information more efficiently
- Reduction in overall carbon footprint from the university. This will help set a new precedent for overall improvements.

Employee Satisfaction

Proof is in the Stats

- 51% of employees wish their company offered more flexible work options
- 84% of working parents said that work flexibility is #1 most important in their job search.
 - 80% ranked it as #2



Working From Home (WFH)

- 900 Employees
- 2 days/month
- Saves 108,450 lbs CO₂ / month
- Saves 1,301,400 lbs CO₂ / year



WFH: 59 Ford Fusions off the road per year

Despite saving \$83.24 per computer/year after switching, the cost increase of \$453 from desktops to laptops results in:

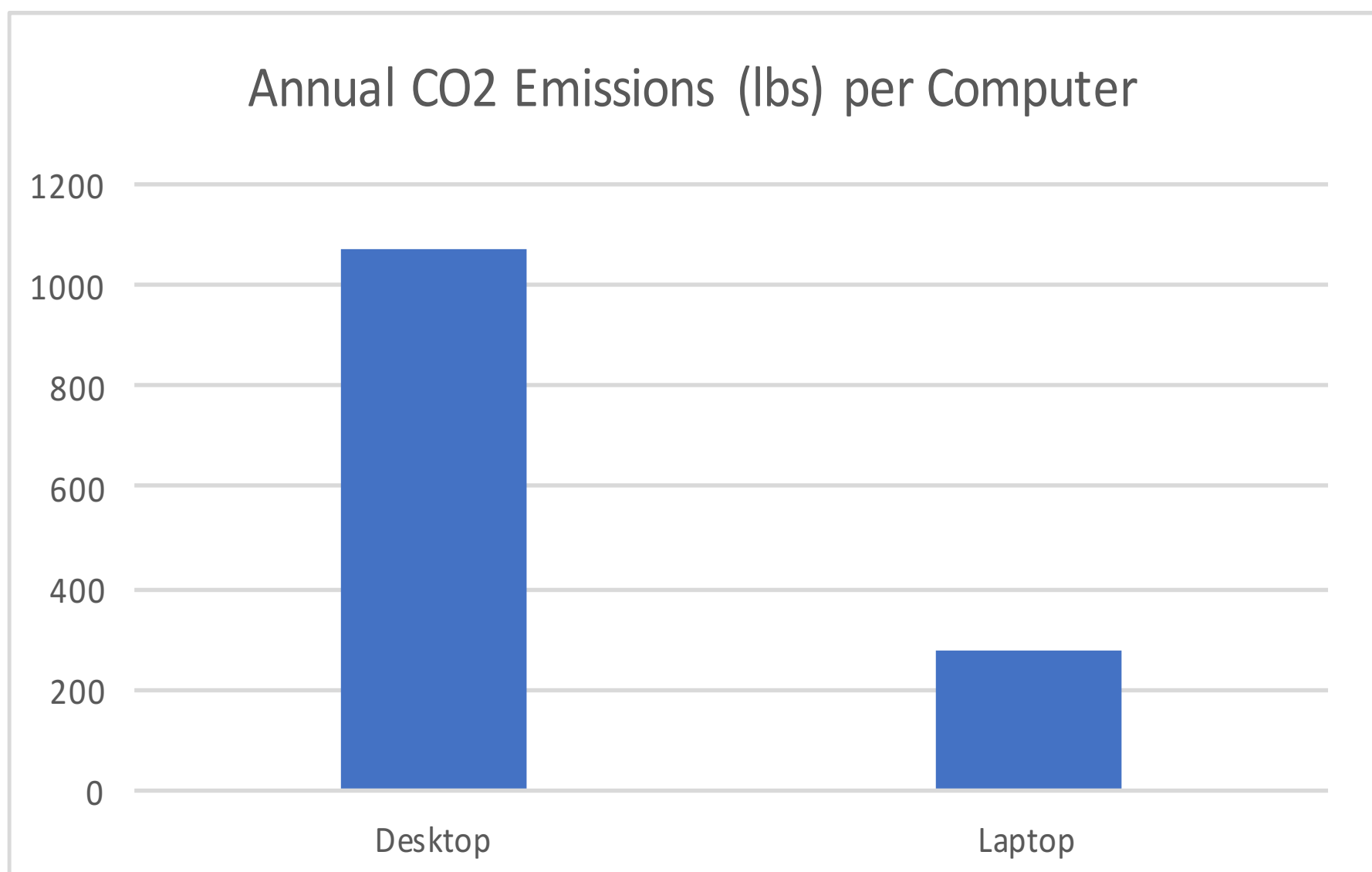
5-Year NPV/computer: **-\$87.09**
Investment is made back after **5.44** years.

However:
Previous NPV and payback calculations assume no corporate discounts for buying in large quantities. Using sensitivity analysis, NPV and payback period improve with the likely discounts.

Wholesale Discount	Cost Diff	Cash Flow Yr1	Cash Flow Yr2	Cash Flow Yr3	Cash Flow Yr4	Cash Flow Yr5	NPV	Payback
10%	407.7	-324.46	83.24	83.24	83.24	83.24	(\$45.15)	4.90
20%	362.4	-279.16	83.24	83.24	83.24	83.24	(\$3.20)	4.35
30%	317.1	-233.86	83.24	83.24	83.24	83.24	\$38.74	3.81



Laptops: 32 Ford Fusions off the road per year



Carbon Savings of replacing all computers on the Dahlonega campus (900 computers): **708,300 lbs CO₂ / yr**

INCENTIVES BEYOND THE COMPUTER

CARBON PROJECTIONS