UCLA Property and Casualty Assessment -Automobile SafetyJanuary 20, 2015

The Bruinators Actuary Firm

Agenda

- Summary
- Data and Analysis
 - o Risk
 - o Operation
 - o Finance
 - Marketing
- Alternatives
- Conclusion

Executive Summary

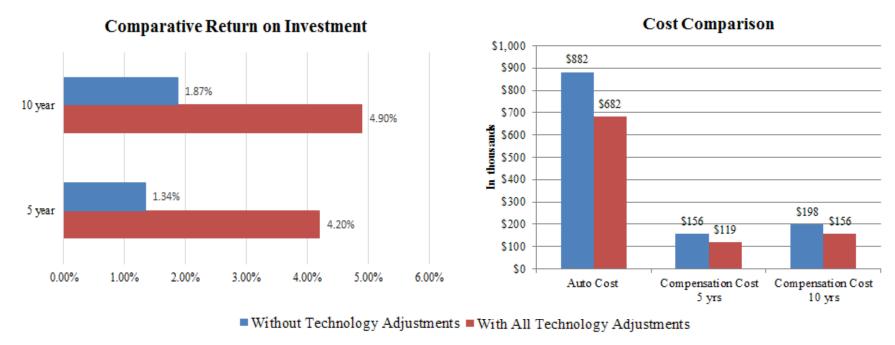
Assumptions:

- Severity and frequency estimates are based off of a mixture of mid-sized sedan data.
- Costs are stable over five and ten year depreciation periods.

Analysis:

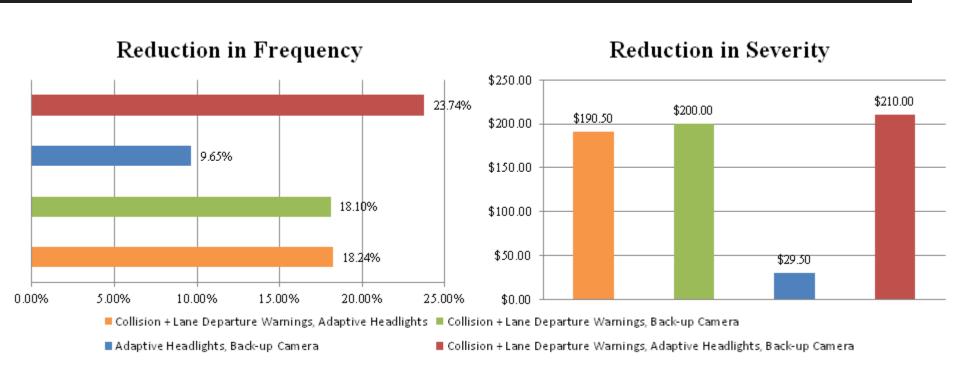
• Profitability is recognized with the safety features: Collision and Lane Warning, Adaptive Headlights, and Rear View Cameras.

Risk



http://www.bloomberg.com/markets/rates-bonds/government-bonds/us/

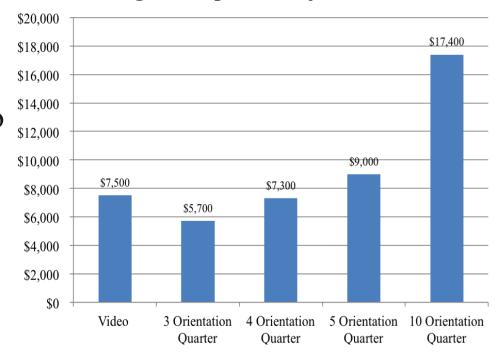
Risk



Operations: Trainings

- Options: orientation or training video
- Recommended approach: training video

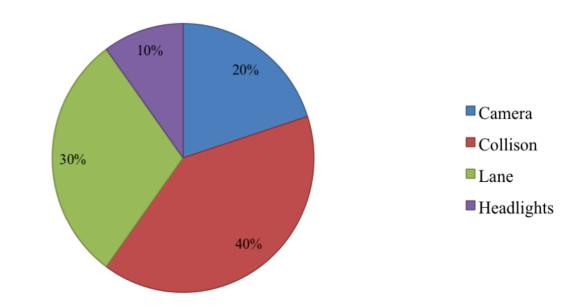
Training Cost Options Projected 10 Years



Operations: Repairs

- Annual allocated fund for repairs
- \$50/car/year
- \$238,000 over 10 years

Expected Repair Costs (10 Years)



Finance

- Overall funds of UCLA
- Highest Return on Investment
- Alternative Investment: US treasuries
- Spent \$9,884,000 on US treasuries for 1% ROI, only a fraction of that needed to fund this project

Finance

	5 years		10 years		Safety Features
Safety Costs	\$974,000	\$0	\$1,948,000	\$0	No Safety Features
Loss Costs	\$3,411,000	\$4,408,000	\$6,821,000	\$8,816,000	
Repair Costs	\$119,000	\$0	\$238,000	\$0	
Training Costs	\$7,500	\$0	\$7,500	\$0	
Compensation Costs	\$594,000	\$779,000	\$1,508,0800	\$1,976,000	
Total Costs	\$5,105,500	\$5,187,000	\$10,522,500	\$10,792,000	
Difference		-\$82,000		-\$270,000	

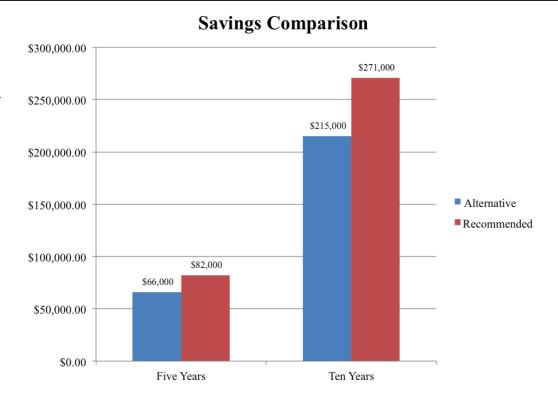
Marketing

- UCLA Safety Campaign
- Potential increase in applicants
- Securing UCLA's spot as a top public university
- Possible Partnership with National Highway Traffic Safety Administration (NHTSA)



Alternatives

- Have safety
 features apply only
 to new vehicles
- Lower initial investment



Concluding Remarks

- Safety features added to both new and old vehicles is most profitable
- Alternatively, only enhancing new vehicles is also solvent

