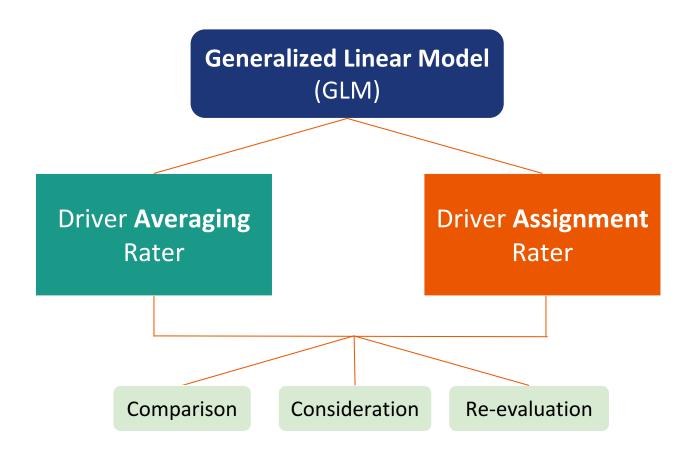
BAS 2019 CSAA Case Competition

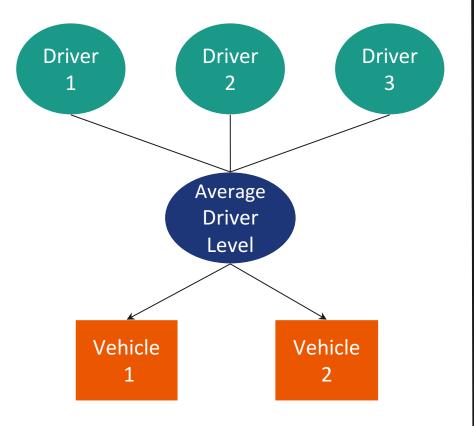
Team 18
Elisa Bong, Jiahao Huang, Kelvin Christian, Yupeng Chen

Background and Case Objectives

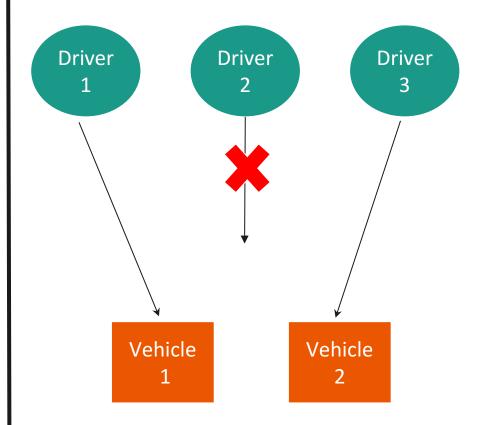


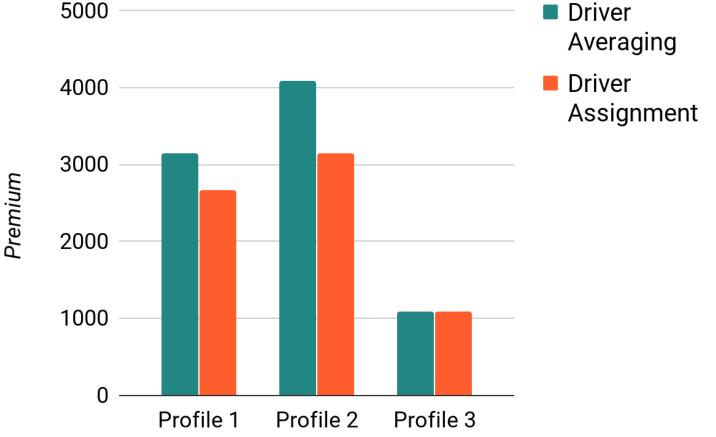
Rating Methods

Driver Averaging Rater

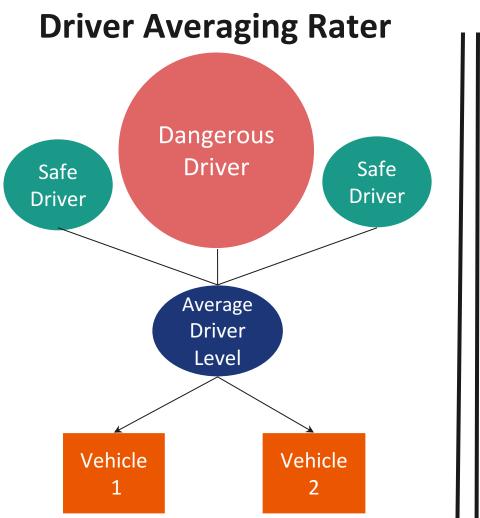


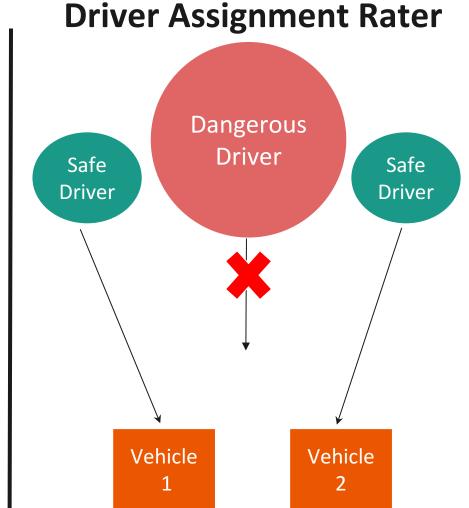
Driver Assignment Rater



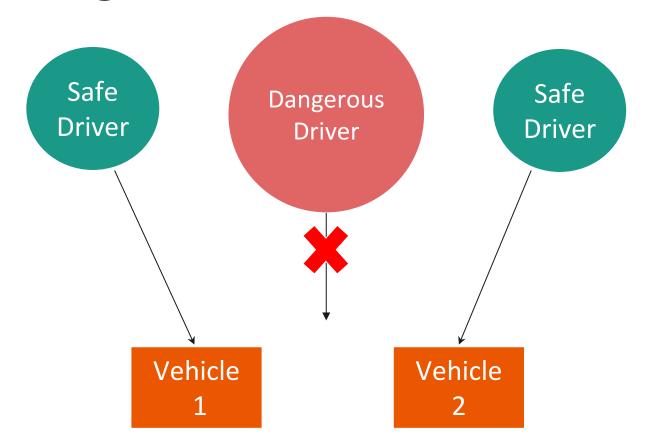


Result: Driver Assignment -> Lower Premium





Driver Assignment Rater → Lower Premium



Considerations

Customer Behaviors Reducing Loss Ratio

Minimized Risk
Less Amount of Work

Reasonable Pricing

Driver Averaging

Driver Assigning

Data Evaluation

Generalized Linear Model (GLM) & Application

Linear Regression Link Function Dependent Variable Error

GLM Output

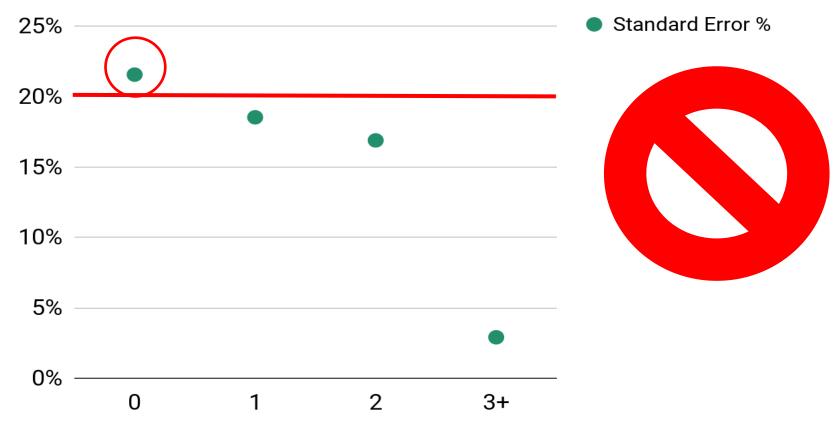
Years Of Driving
Experience

Driver Point

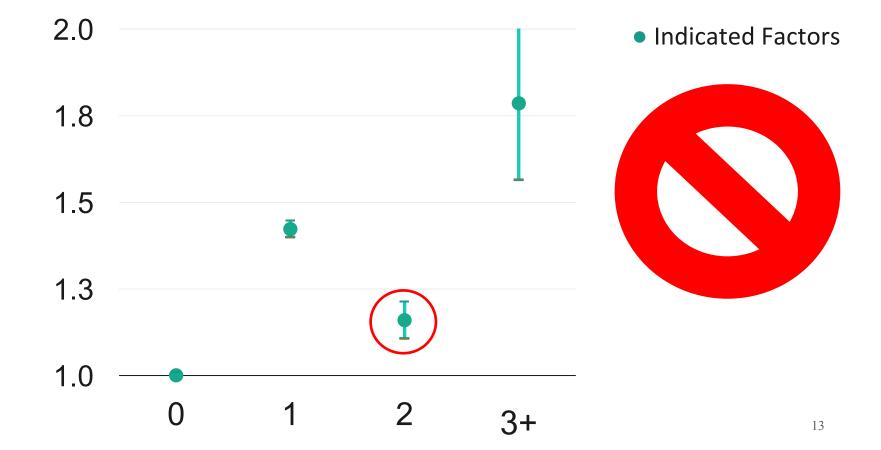
Model Year

Persistency with Company Multipolicy Good Student Vehicle Use

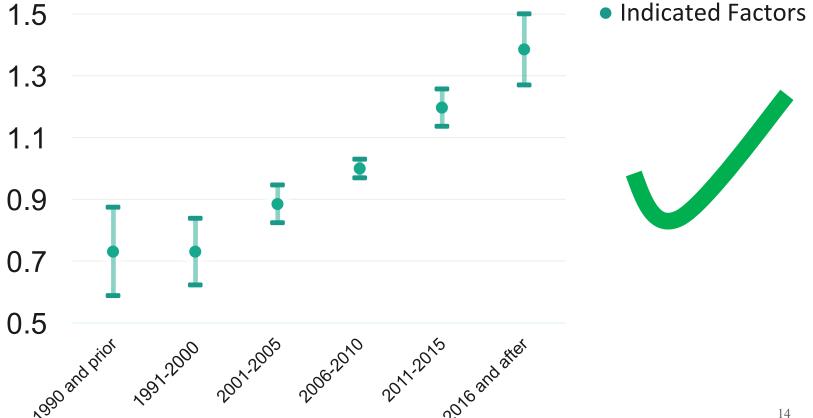
Rating Variables: Driving Experience



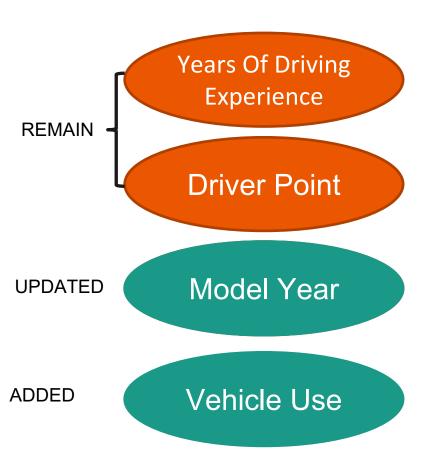
Rating Variables: Driver Points



Rating Variables: Model Year



Solution

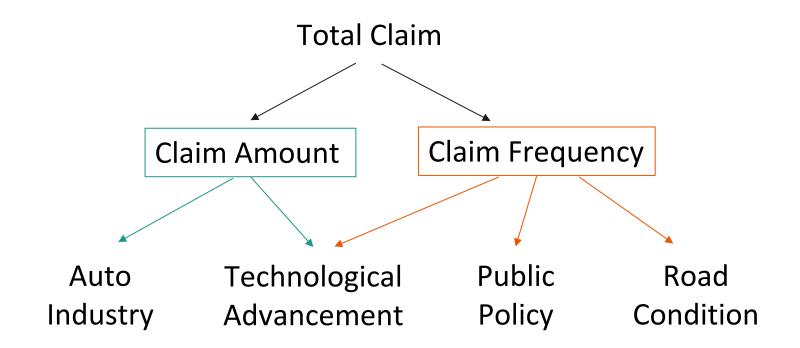




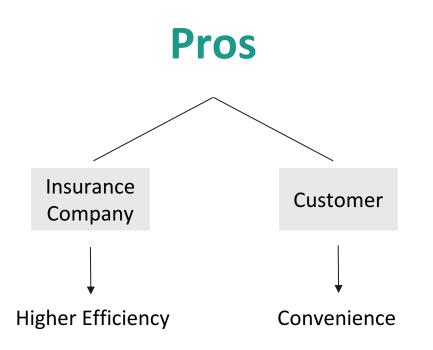
NEW Data

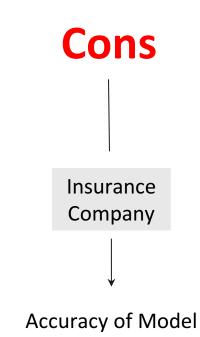
OLD Data

Selecting Time Period of the Data



Countrywide Model





Business Challenges

New Issues

High Loss Ratio

Rate[†]

Retention

Persistency with Company

Expand Youth Driver Market

Low Close Ratio

Good Student

Non-Rating Strategies

YOUTH MARKET EXPANSION

- Mobile App
- Marketing in College

DROPPING RETENTION RATE

Customer LoyaltyProgram

OTHER OPTIONS

PolicymakerCollaboration

THANK YOU!

Appendices

Appendix A – Merging – Driving Experience

Years	Original	Combine 0 and 1	Combine 0, 1, 2
0	21.60%	21.54%	19.70%
1	18.54%		
2	16.89%	16.89%	
3+	2.91%	2.91%	2.91%

Appendix B – Youth Driver Market

