

The Interaction of Cinematic Depictions of Risky Driving and Person Factors on Imitation in Simulated Driving

Deanna Singhal (York University & University of Alberta)

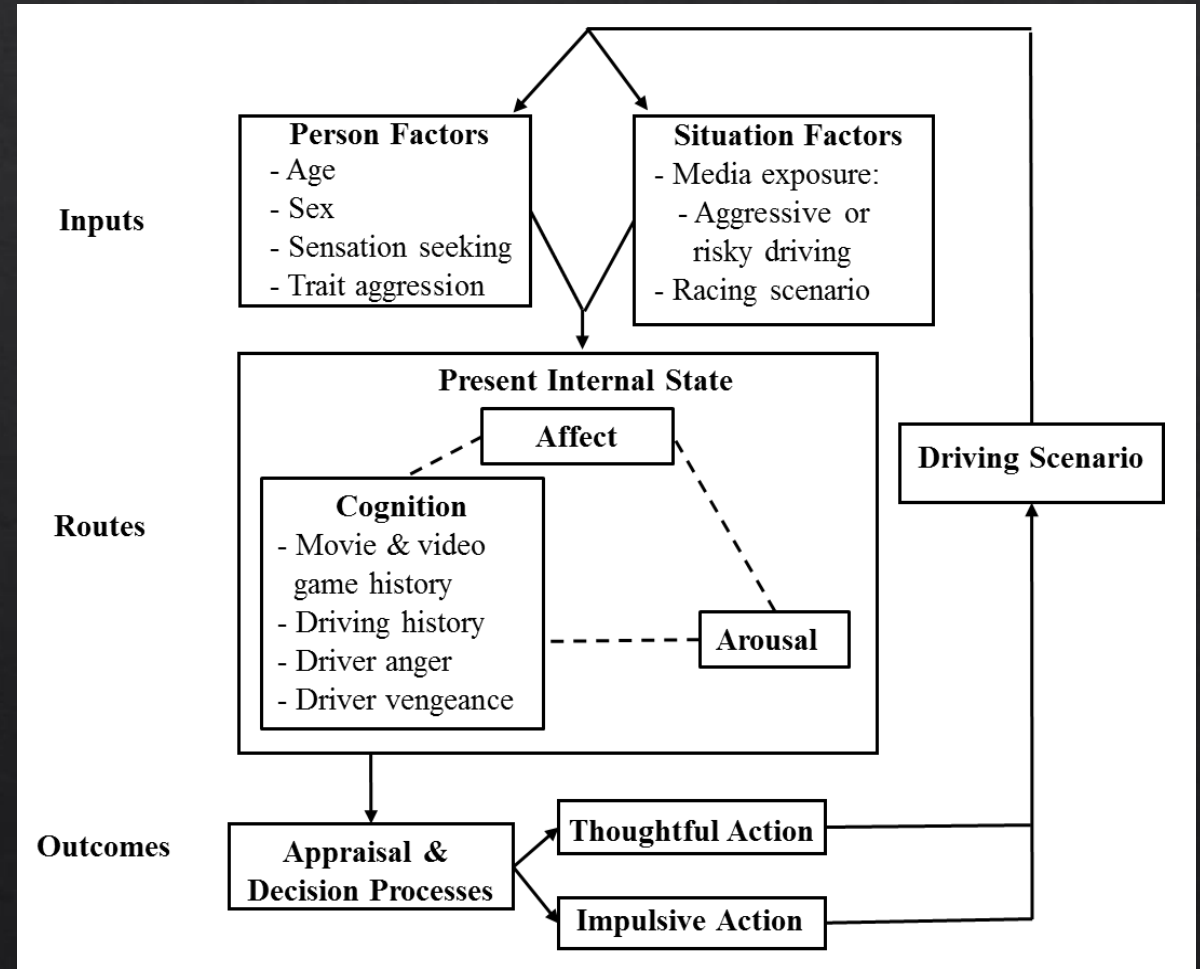
Dr. David Wiesenthal (York University)

Modified General Aggression Model

(adapted from Anderson & Bushman, 2002)

Introduction

- Previous experimental studies
 - Different types of media & exposure
 - Different dependent measures
 - Different intervening variables



Hypotheses for Current Research

- Higher levels of risky driving expected following aggressive driving movie exposure
- Larger effects expected for:
 - males
 - higher trait aggression & sensation seeking
 - higher driver anger & driver vengeance
 - more self-reported infractions & collisions
 - more self-reported viewing of aggressive driving movies & video game playing

Measures & Procedures

- Video Clips (15 min)
- Scales & Surveys
 - Sensation Seeking (AISS)
 - Trait Aggression (TAS)
 - Driving Vengeance (DVQ)
 - Driving Anger (DAS)
 - Driving history
 - Movie viewing history
 - Video game playing history



AGGressive Driving
(AGGD)

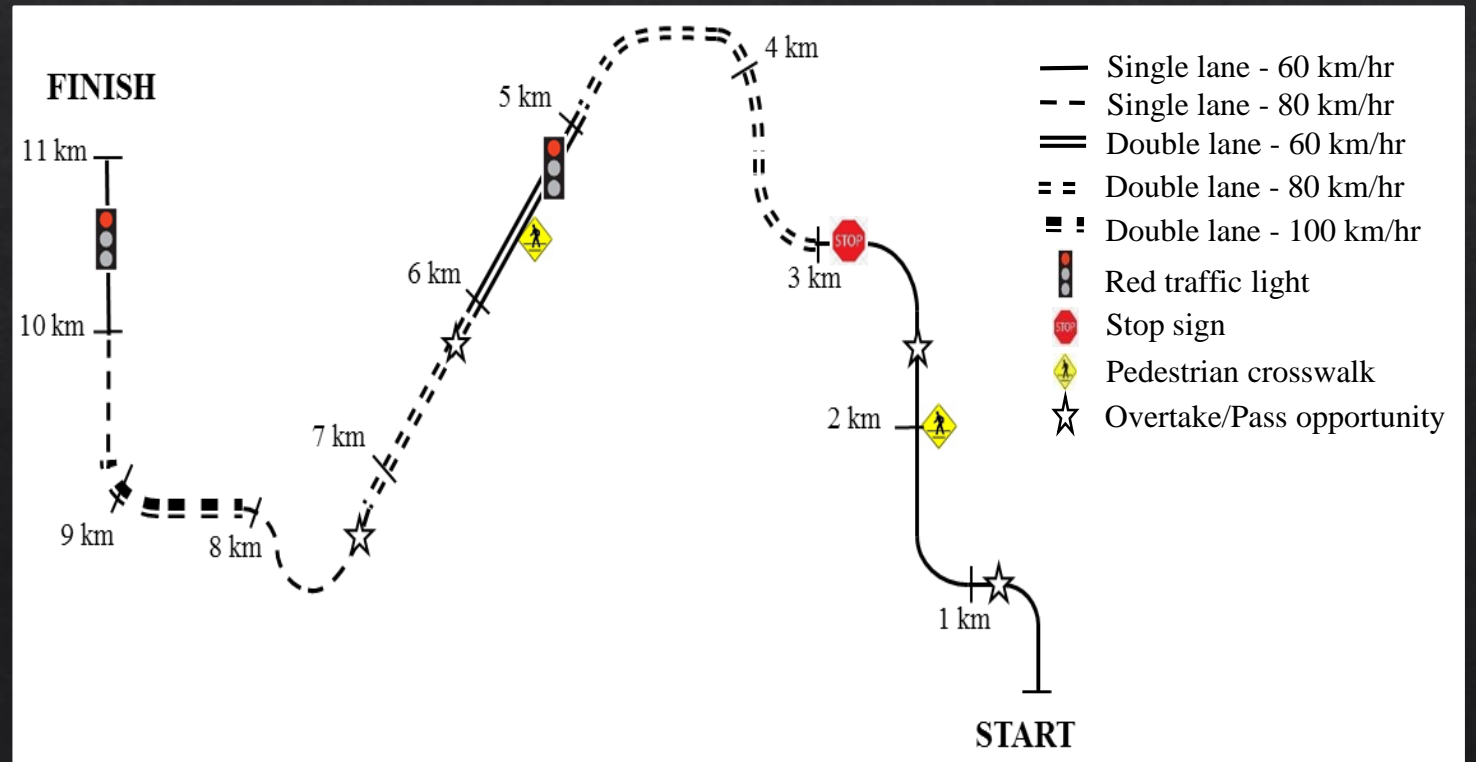


ARousing Non-Driving
(ARND)



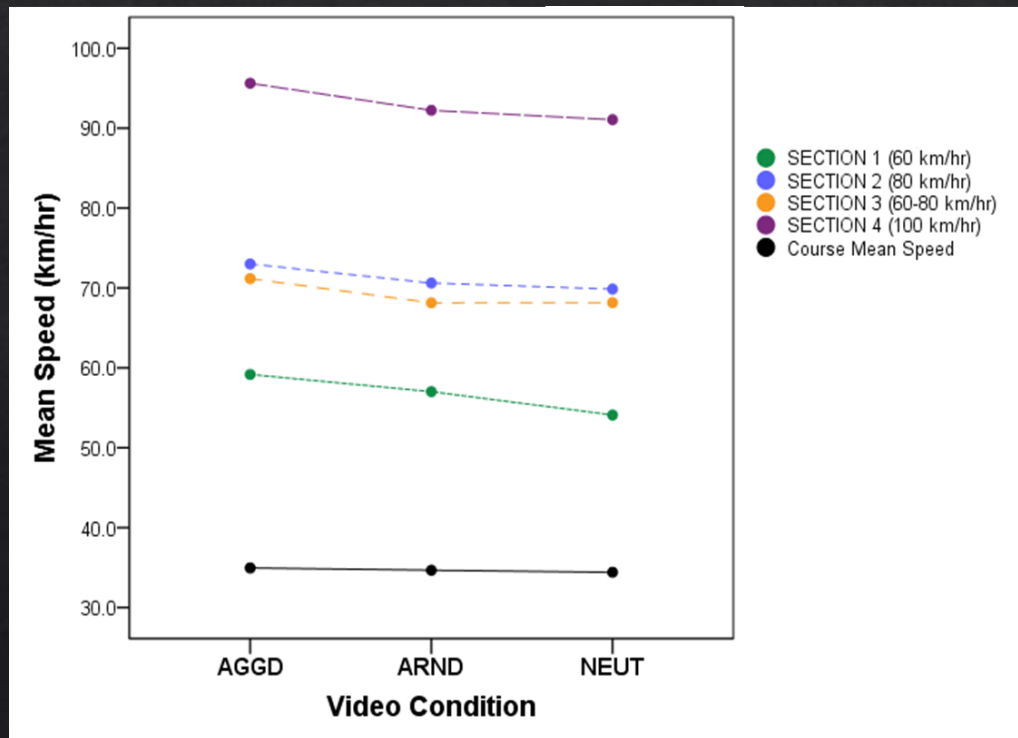
NEUTral
(NEUT)

- Simulator apparatus
- Driving course
- Procedure order (Between S's)

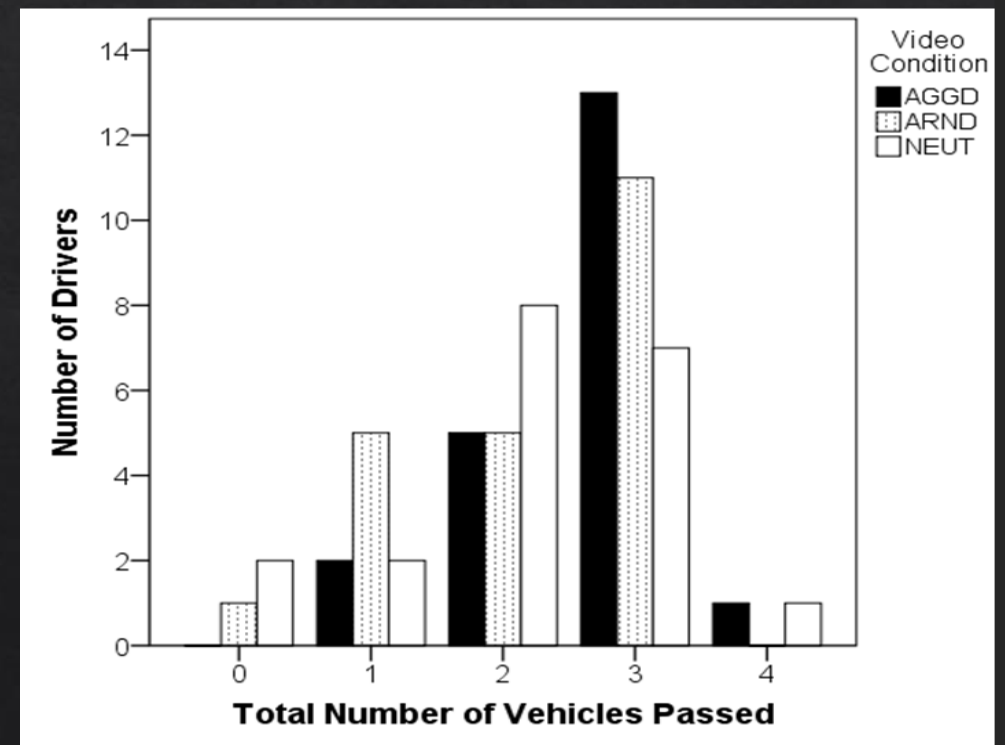


Results

- No significant main effect of video condition
- Speed, time to completion, passing frequency, mean acceleration during first passing opportunity

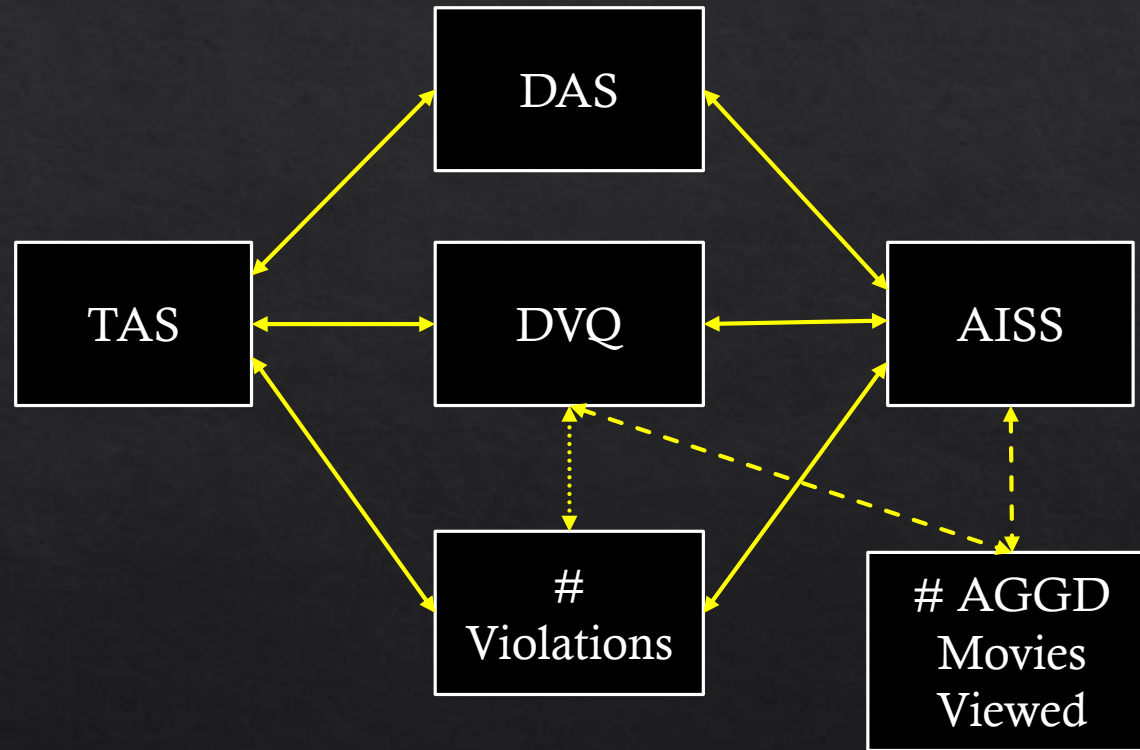


Mean Speed (n.s.)

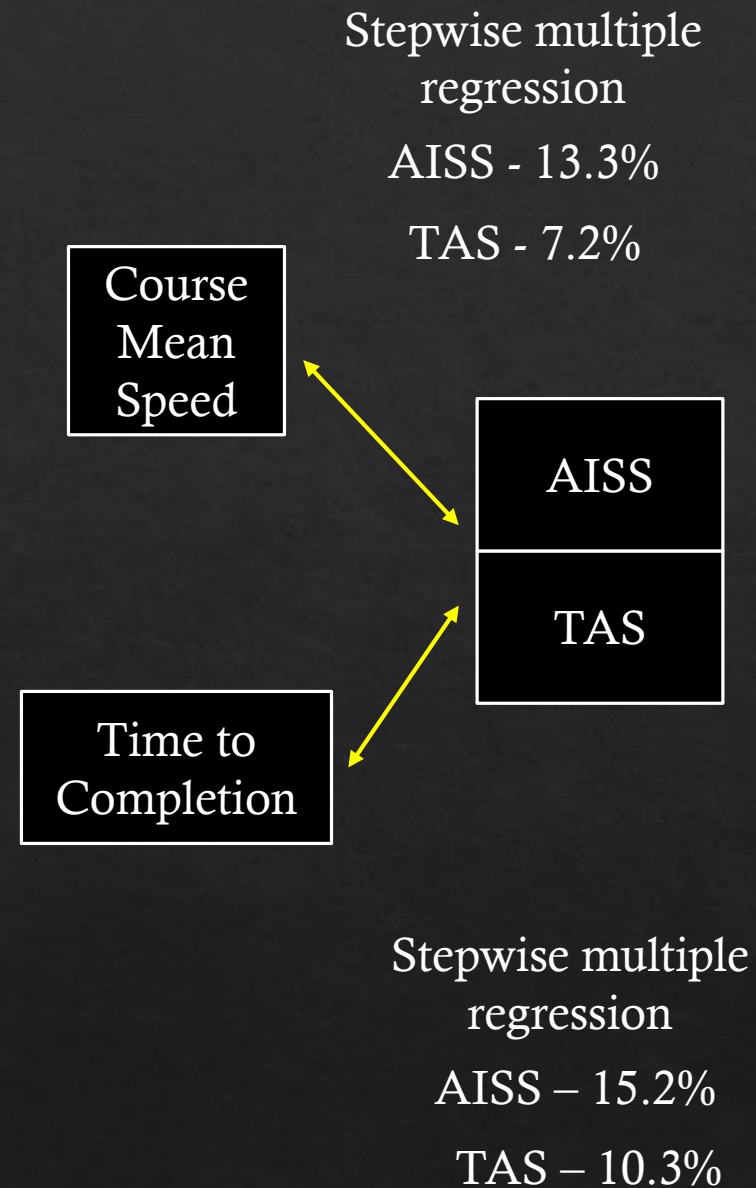


Passing Frequency (n.s.)

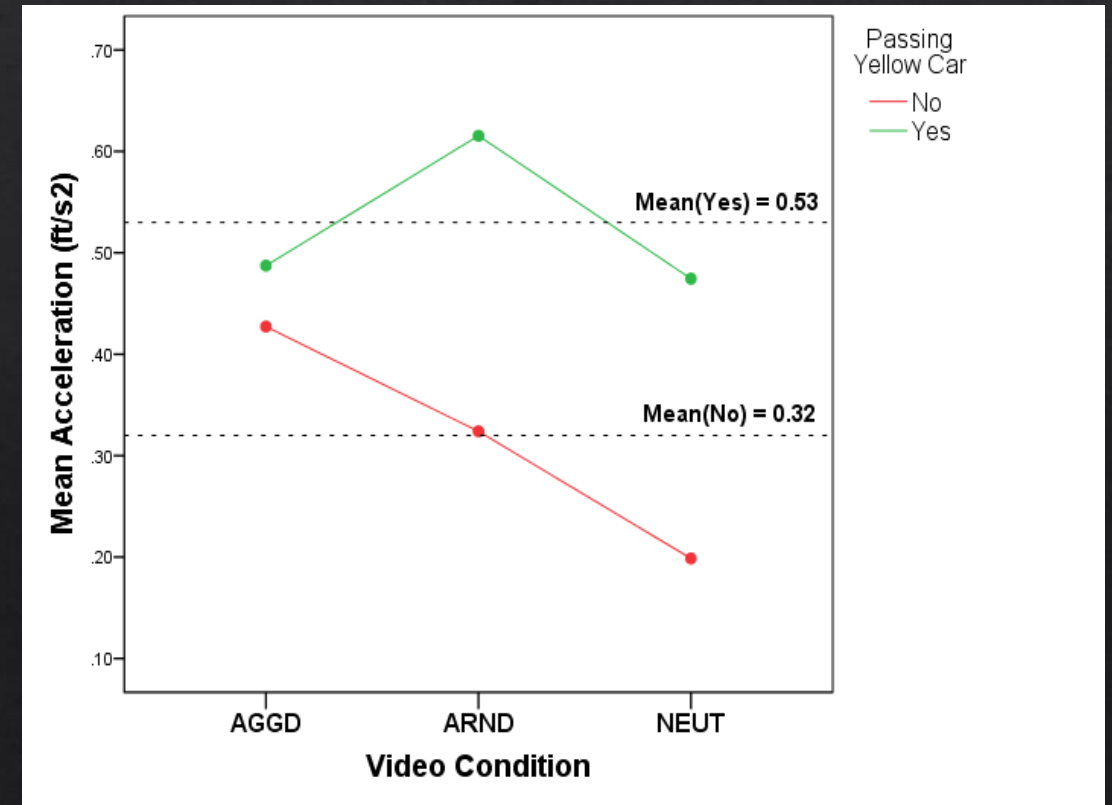
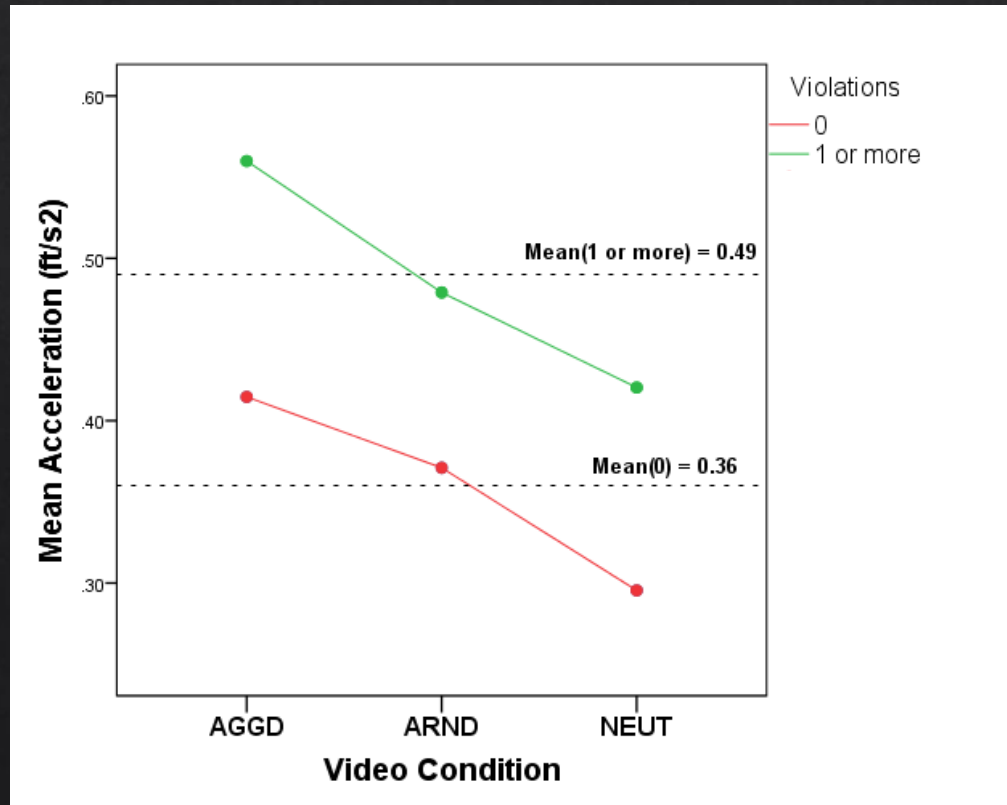
- Significant correlations between scale & survey factors



- Driving measures & scale and survey factors
- Sensation seeking & trait aggression significant predictors of course mean speed & time to completion
 - No interaction with video condition
- Higher sensation seeking resulted in greater passing frequency



- Provoking racing scenario: Mean acceleration
 - Violations significant predictor (~ 8%)
 - Main effect of violations
 - Main effect of passing yellow car



Conclusions

- No main effect of video condition
- Certain intervening factors significant predictors of aggressive driving
- Implications:
 - Susceptibility to aggressive driving media
 - Sensation seeking
 - Trait aggression
 - Driving history - violations
 - Racing scenario

