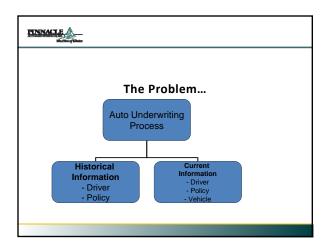


Underwriting the Car

- We know that a policy's history, in addition to the current policy characteristics, impact the future experience of a policy
- Now, there is vehicle history data that is available that has an impact of the future experience of the risk
- Vehicle history information can be applied in several areas of an insurance company

THE REAL PROPERTY.



Policy Characteristics Current policy Policy history characteristics characteristics Age Accidents Gender Violations Cancel / reinstatements Marital Status Number of Prior limits drivers/operators Prior insurance Insurance score Multi-line Territory **Vehicle Characteristics** Current Vehicle Historical Vehicle Characteristics Characteristics Symbol · ???? Model year Vehicle characteristics Anti-theft device Passive restraint Anti-lock Existing damage The Need to Understand a Vehicle's History • We know that a policy's history, in addition to the current policy characteristics, impact the future experience of a policy Likewise, a vehicle's history will impact future experience Vehicle performance Damageability Reparability

ENSKALLE A

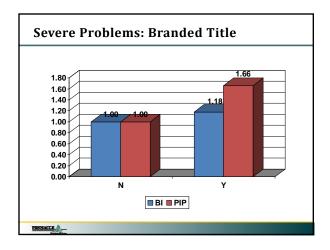
FINNACLE A Market Code	
What Vehicle History Information is Available?	
Available Data Elements	
Severe Problems Title Brands Salvage Flood Fire Total Loss Severe Accidents Frame Damage Airbag Deployment Previously Stolen Potential Damage Other Accidents Frame Inspection Failed Emissions Failed Safety Inspection CARFAX Flood Advisory Ownership Info Number of Owners Type of Ownership Length of Ownership Odometer Info Avg Annual Mileage Odometer Readings	
Available Data Elements	
Severe problems: vehicle's structural integrity may have been compromised due to salvage, flood, rollover, frame damage and other severe accident indicators Potential damage: pre-existing damage based upon accident reports failed safety or emissions inspections, frame inspections, flood advisories Ownership information: vehicle's number of previous owners and the current length of ownership, Identify rental, fleet, commercial and lease vehicles which have a statistically higher propensity for future loss Odometer information: Verify odometer readings and self-reported mileage using the vast collection of odometer readings reported from thousands of data sources.	

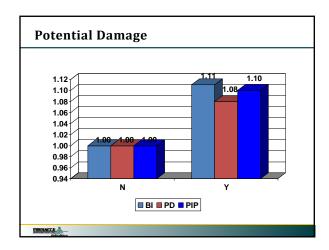
HINNACLE	
w	hat Does the Information Tell Us?

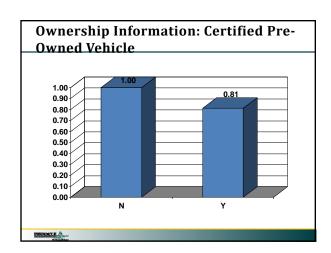
Analysis

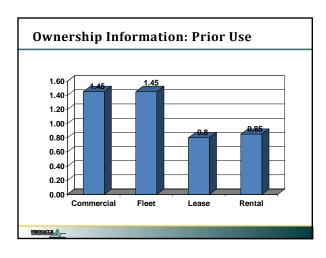
- Matched by VIN and report dates
- Include potentially correlated factors
 - Driver information
 - Vehicle characteristics
 - Policy details
 - Insurance score
- Multivariate analysis performed to determine value of vehicle history <u>beyond current rating plans</u>

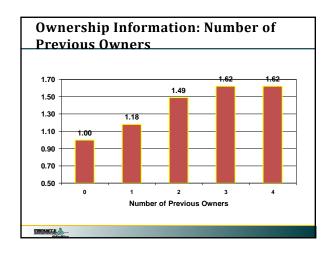
THE NAME A

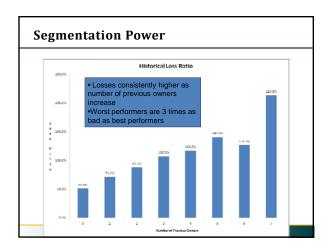


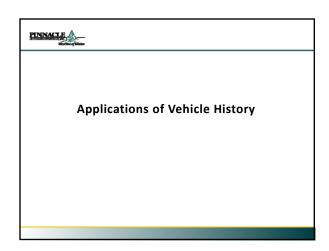








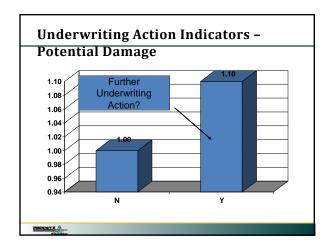


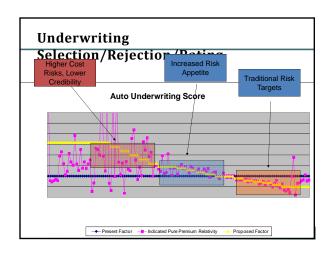


Applications

- Rating
- Marketing
 - Certified pre-owned discount
 - Original owner discount (i.e. Allstate)
- Underwriting
 - Selection/rejection
 - Action indicator
 - Increased risk appetite
- Claim
 - Fraud detection

THUMBER A





"Those who cannot remember the past are condemned to repeat it."
- George Santayana

History is indeed the witness of the times, the light of truth."

- Cicero

