







![](_page_1_Picture_3.jpeg)

![](_page_1_Figure_5.jpeg)

![](_page_2_Figure_1.jpeg)

![](_page_2_Picture_3.jpeg)

![](_page_2_Picture_4.jpeg)

![](_page_3_Figure_1.jpeg)

![](_page_3_Figure_2.jpeg)

What About Premium Audit? How can predictive analytics be used in the Premium Audit environment? Audit type selection Audit Quality Assurance

![](_page_3_Figure_4.jpeg)

![](_page_3_Figure_5.jpeg)

## Premium Audit Selection Type

- Predicting Audit Product type can assist customer with their ROI
- Audit selection predictions are compared to net AP/RP predictions by policy to determine the best possible ROI scenario
- Carriers can then use this for budgeting purposes or to support certain budget projections based on predicted ROI
- The process can be automated to feed directly from a customer's audit ordering system to the predictive tool and then into the audit inventory
- Reports are generated quarterly and provided to the carrier to compare predicted results to prior ordering patterns
- Carriers can then make future decisions based upon improved ROI results

![](_page_4_Figure_1.jpeg)

![](_page_4_Picture_2.jpeg)

![](_page_4_Figure_4.jpeg)

## **Prediction Result**

- These results by policy are then "bucketed" into categories of degree of predicted misclassification and misexposure
- This will then determine the proper audit product line to be applied to the given policy that will provide the best ROI
- Reporting can be provided to compare actual predicted results vs. how the policies were ordered, providing an overall ROI

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![](_page_5_Figure_6.jpeg)

![](_page_5_Picture_8.jpeg)

![](_page_6_Figure_1.jpeg)

![](_page_6_Figure_2.jpeg)

![](_page_6_Figure_4.jpeg)

## Trends for Premium Audit

Remote-Physical Audits vs. Physical Audits

> Other factors to consider:

- Geography and expense to reach certain areas- Is there a benefit to a physical audit if there has been no history of issues with a renewal account and its not a rebounding industry?
- Prediction will most likely be a remote-physical on renewal policies with no history of major exposure or classification deviations.
- Predictions can get granular enough to predict the ROI on each policy to assist with this dete

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## Quality Control/Review Process

- Data from the previous process can be applied to audits and policies as they enter the Quality review process
- Policy and audit complexity can be determined from various parameters
- Magnitude of material items can also be determined
- >Level of auditor experience is also applied
- The audit will receive a complexity score based on the above and be bucketed accordingly
- Degree of quality review can then be properly aligned
- Audits are then scored for quality in the review process for performance purposes

![](_page_7_Figure_18.jpeg)

![](_page_8_Figure_1.jpeg)

- Find out where your audit results data is being stored
- Cobtain the "Big data" in an Excel queried format from your company's database
- Sort and pivot the data and look for trends
- Create rules to identify specific trends
- Discuss with management and submit a cost benefit analysis for IT resource Share your goal with IT resource and have them assist with building a rudimentary tool for you.
- Or, look for companies that have these tools in the marketplace

![](_page_8_Picture_10.jpeg)