



- Objective
- Customer Information Available
- Current Status & Competition
- Exploratory Data Analysis
- Key Findings
- Recommendations
- Conclusion
- Future scope



CABLEONE





# **OBJECTIVE**

- Analyze customer data to find possible causes of customer attrition.
- Recommend solutions to provide CableOne to increase customer retention, improve customer experience
- Enable CableOne to gain an advantage over their competitors
- Provide a prediction model that we can use to predict customer churn



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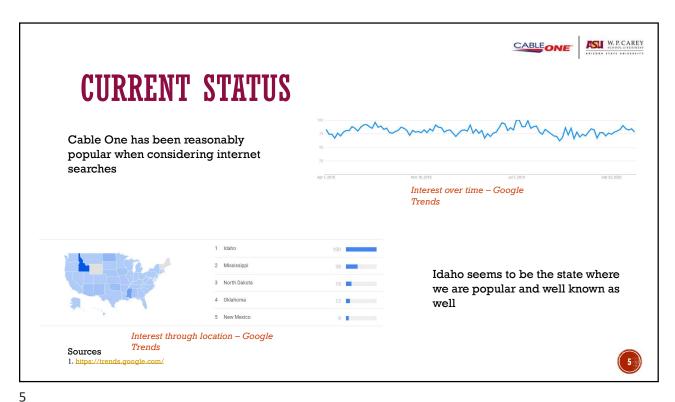




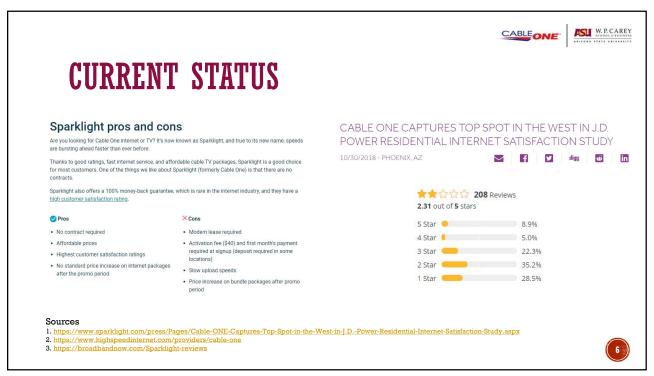
### CUSTOMER INFORMATION AVAILABLE

- Customer data from January 2018 October 2019 (22 months) that contains :
  - o Demographical information
  - o Product information
  - Usage information
  - o Orders placed information





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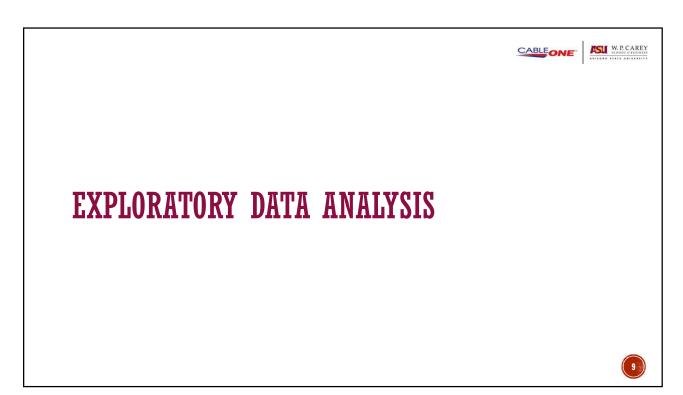


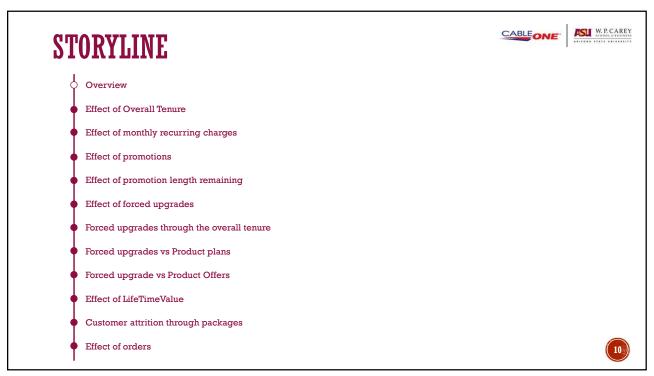
GLOSSARY OF TERMS

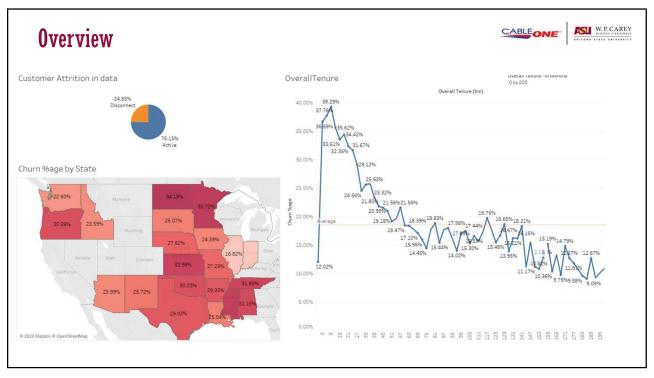


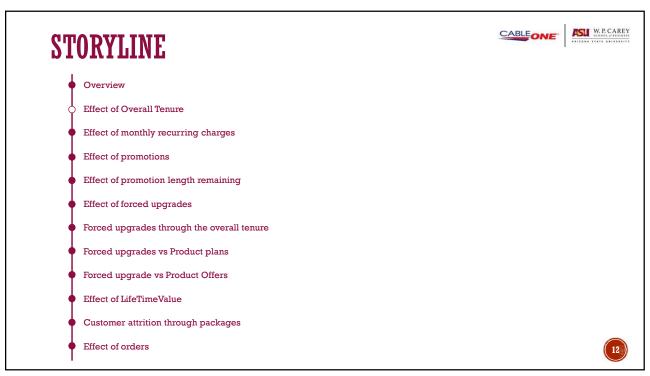
- Churn customer a customer leaving the services of the company
- Overall Tenure The number of months a customer has been with the company
- Forced upgrade When a customer is forced to upgrade his plans after two notices that he has exceeded his data limit
- MRC Monthly recurring charges
- LifeTimeValue The value, ranging from one star to five star, assigned by the company to reflect the value of the customer
- Packages:
  - I Internet
  - V Video
  - P Phone

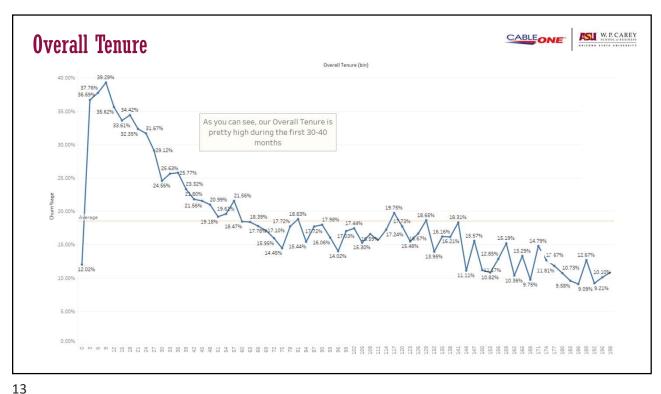
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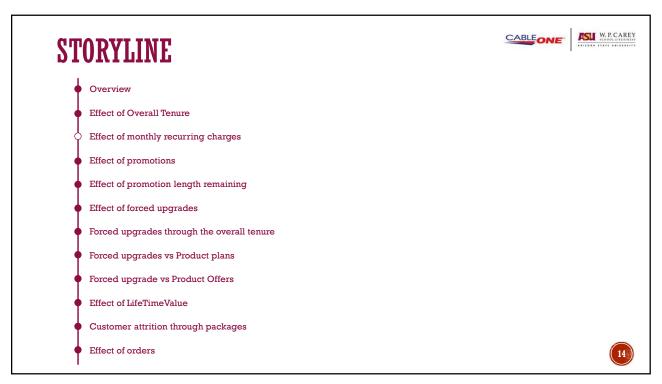


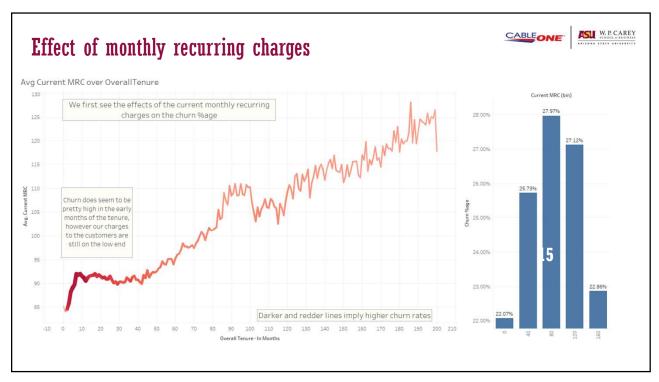




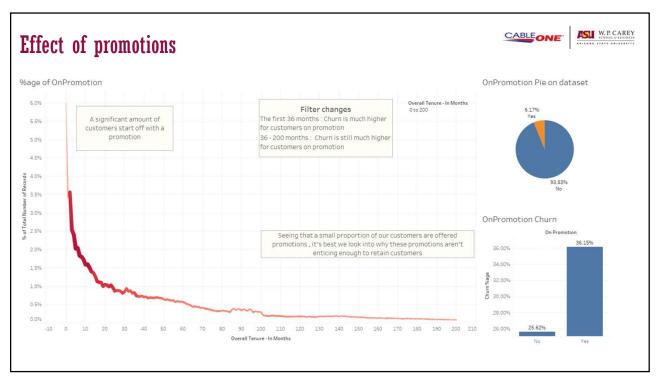


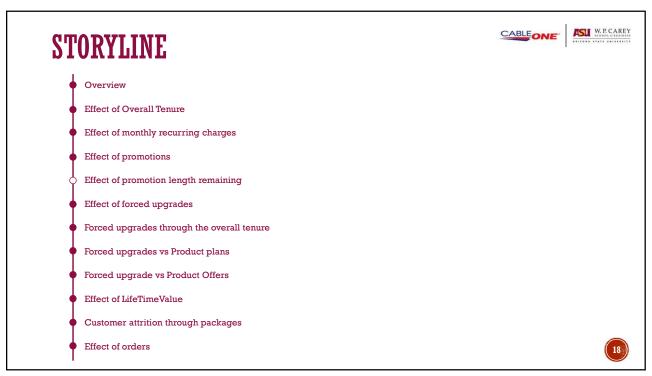


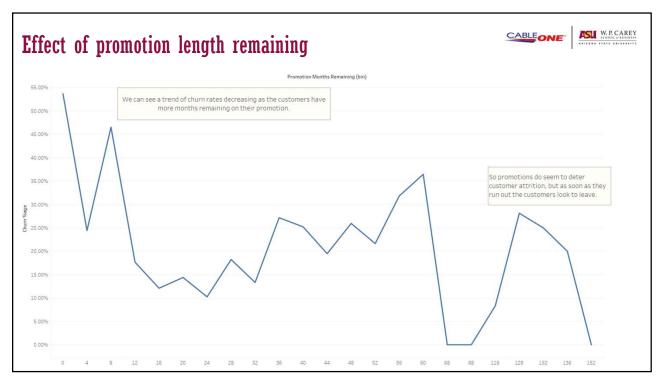


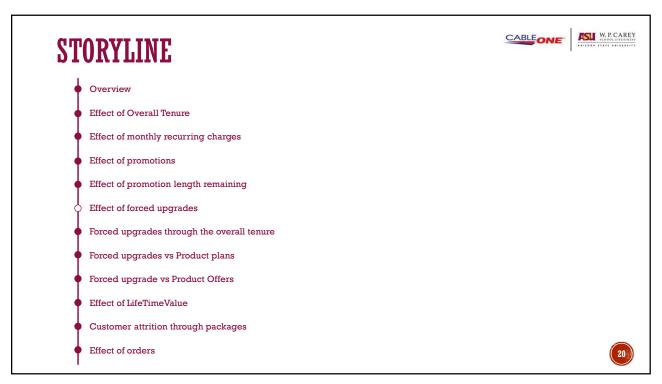


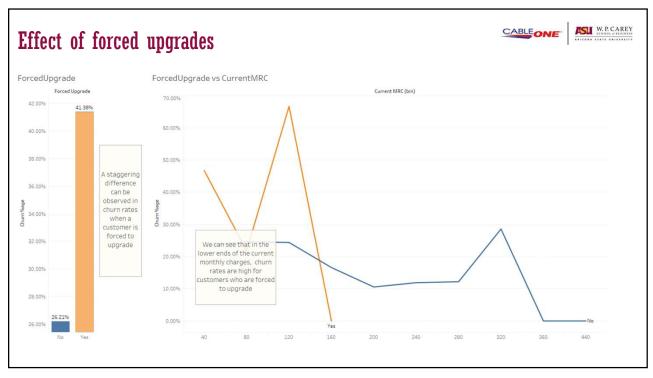




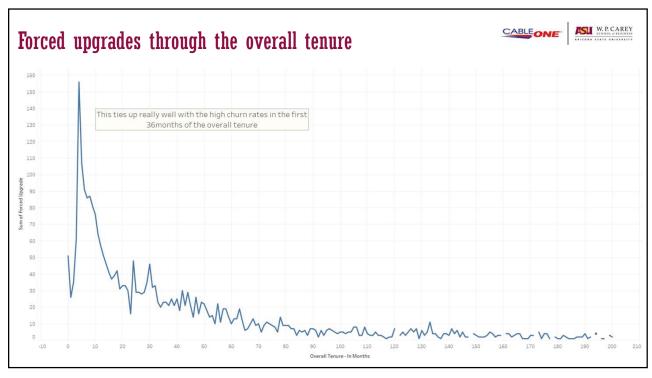


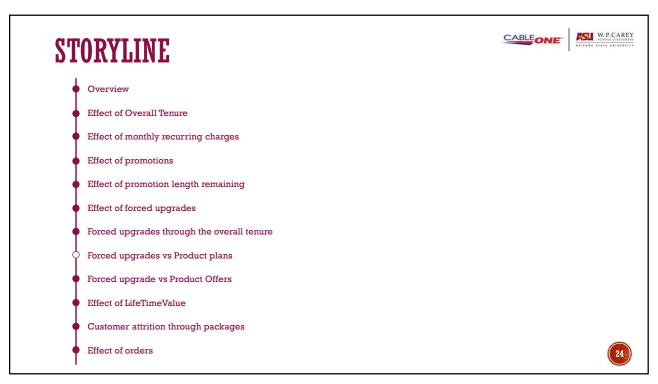


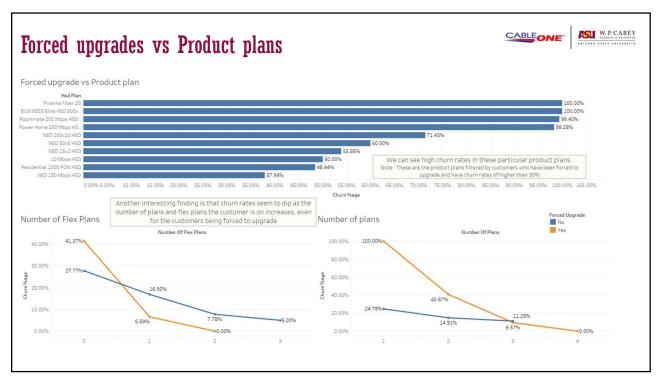




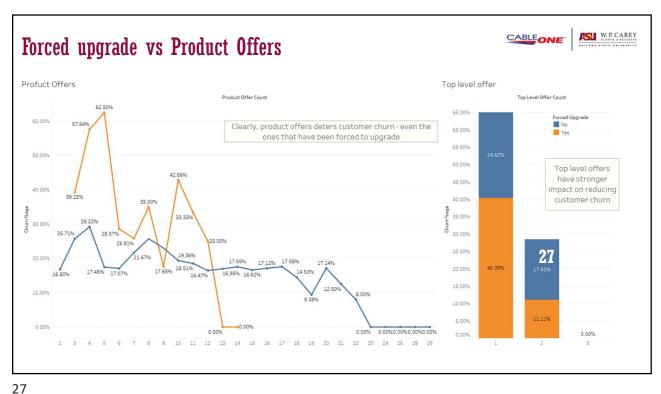


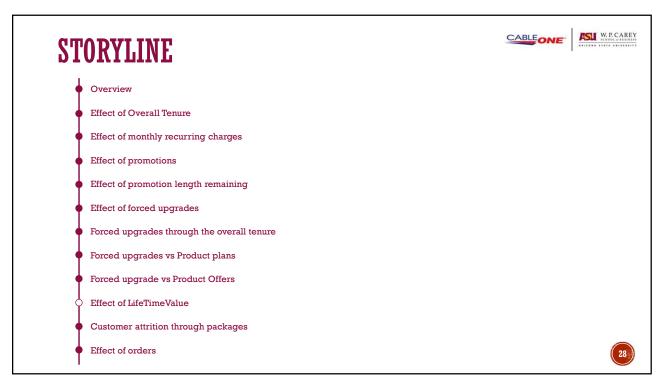


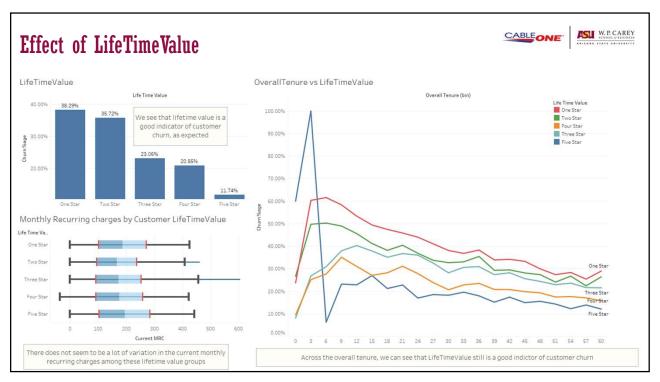




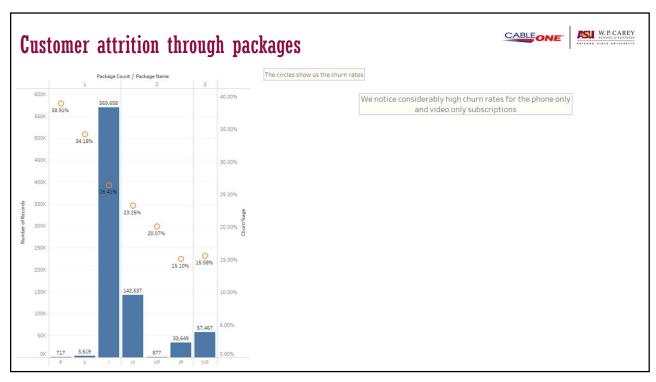




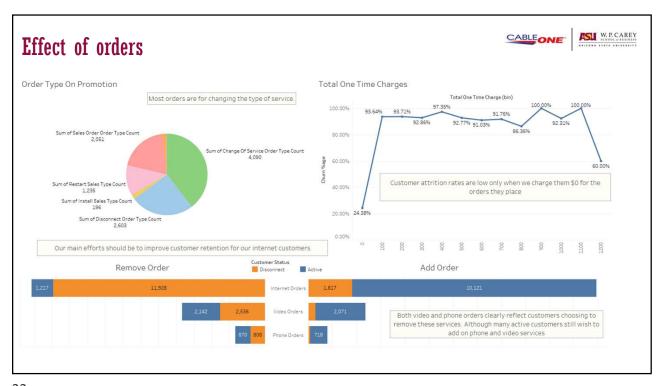














- High attrition rates in the first 36 months of a customer's tenure
- Promotions help with customer retention, but lead to churn when promotion period ends
- Forced upgrade cause major customer churn
- The more plans a customer is on, the less likely they are to leave
- LifeTimeValue is a strong indicator of customer churn
- Phone and Video services see significantly higher rates of churn
- One Time charges seem to cause customer churn



CABLEONE

W. P. CAREY





#### RECOMMENDATIONS

- Customer satisfaction does seem to be high, but we have to consider improving customer experience in the first 3 years of their tenure.
- An increase in number of promotions offered or reducing the price reduction when a customer is on a promotion
- Forced upgrade is a major problem
  - Educate sales representatives to better understand customer needs thereby selling appropriate plans
  - Drop plans that have a low data and bandwidth limit
  - Provide customers with a 'Pay as you go' plan in the first 2 months to gauge their usage requirements
  - Offer promotion immediately after a customer is forced to upgrade
- Focus on selling more bundled packages



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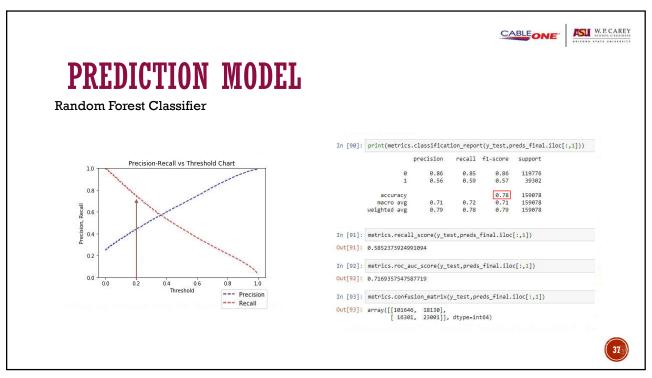


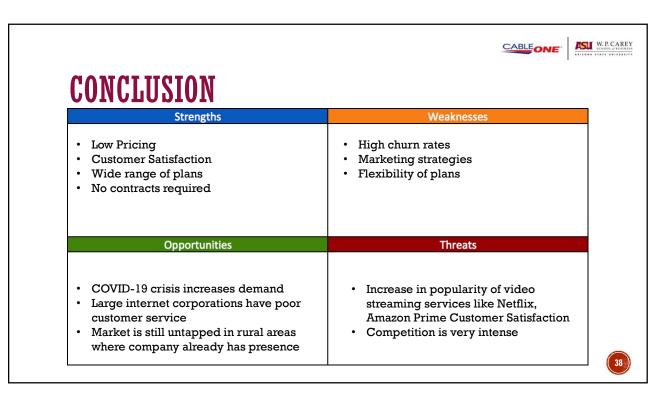


#### RECOMMENDATIONS

- Offer phone and video services only as a bundle with internet
- Implement zero one-time charges as much as possible
- Customers are satisfied with low rates, offers us some wiggle room to reduce one time charges
- Refrain from offering promotions during the first 1-2 years of a customer's tenure
  - Reduces cost to company when a large proportion of customers leave in the beginning anyway
  - Instead offer promotions after 24-30 months to keep the customer enticed











## **FUTURE WORK**

- Customer surveys before & after
  - Promotion
  - Product offers
  - Forced upgrade
  - Exit
- Prediction model Time series classification too complex
- Obtaining marketing data to supplement churn analysis by geographical region



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# Thank you!

**MSBA Capstone Team 1** 

