# **SUMMARY & TAKEAWAYS**

#### **Objective:**

This analysis aims to explore **customer churn patterns** in a telecom company by evaluating customer attributes, subscription services, billing preferences, and demographic factors. By identifying key factors that drive churn, this study provides **data-driven insights** to enhance customer retention strategies.

# **Key Insights & Findings**

#### 1. Churn Distribution Overview

- Overall Churn Rate: 26.5% of customers have churned, while 73.5% have remained.
- Churn by Senior Citizen Status:
  - 36.2% of senior citizens churned compared to only 24.1% of non-senior customers
  - This indicates that senior citizens are 50% more likely to churn than younger customers.

## 2. Impact of Subscription Services on Churn

- Internet Service & Churn:
  - 41.3% of customers with Fiber Optic internet churned, compared to 19.3% of DSL users.
  - Customers with **no internet service** had the lowest churn rate at **7.4%**.
  - Fiber Optic users are **2.1x more likely** to churn than DSL users.
- Security & Tech Support Services:
  - Customers without Online Security have a churn rate of 42.8%, compared to only 15.2% for those with it.
  - Similarly, customers without Tech Support have a 41.5% churn rate, while those with it have a 17.4% churn rate.
  - This suggests that lack of security and tech support significantly increases churn risk.
- Streaming Services & Churn:
  - Customers with Streaming TV & Movies have a 36.8% churn rate, higher than those without streaming services (26.9%).
  - This indicates that streaming services alone are not strong retention factors and may be perceived as an additional cost.

### 3. Impact of Contract & Billing Preferences

#### Churn by Contract Type:

- Monthly contract customers have the highest churn rate at 43.8%.
- Customers on 1-year contracts have a churn rate of 11.2%, and those on 2-year contracts only 2.6%.
- Long-term contracts significantly reduce churn, suggesting that offering incentives for annual contracts could improve retention.

#### • Billing & Payment Methods:

- Customers with electronic check payments have the highest churn rate at 45.4%.
- Customers paying via bank transfer or credit card have a significantly lower churn rate of 16.2%.
- This suggests that **billing preferences may influence customer loyalty**, possibly due to perceived reliability or ease of use.

## **Conclusion & Strategic Recommendations**

Based on the analysis, the following actionable strategies are recommended to **reduce churn and improve customer retention:** 

#### 1. Encourage Long-Term Contracts:

- Provide discounts or loyalty rewards for 1-year and 2-year contracts to retain more customers.
- Consider targeted promotions for customers on monthly contracts (especially those at risk of churning).

#### 2. Enhance Support & Security Services:

- Promote **Online Security & Tech Support** as part of bundled service plans.
- Offer **free trial periods** for security services to encourage adoption.

#### 3. Improve Retention Strategies for High-Risk Customers:

- Target Fiber Optic users with retention campaigns, as they have the highest churn rate.
- Provide personalized offers for senior citizens, who are 50% more likely to churn.

#### 4. Optimize Billing & Payment Methods:

- Encourage customers to switch from electronic check payments to bank transfers or credit cards, which are associated with lower churn rates.
- Offer incentives (e.g., discounts or cashback) for automatic bank payments to improve retention.

#### 5. Re-Evaluate Streaming & Add-On Services:

- Customers with Streaming TV & Movies show higher churn rates, indicating that pricing or content offerings might need adjustments.
- Conduct customer satisfaction surveys to understand why streaming subscribers are more likely to leave.

**Final Takeaway:**This analysis provides a **data-driven roadmap** for improving **customer retention** in the telecom
industry. By **targeting high-risk segments** (Fiber Optic
users, seniors, monthly contract holders) and **optimizing service offerings**, the company can significantly **reduce churn rates** and **increase customer lifetime value (CLV)**.