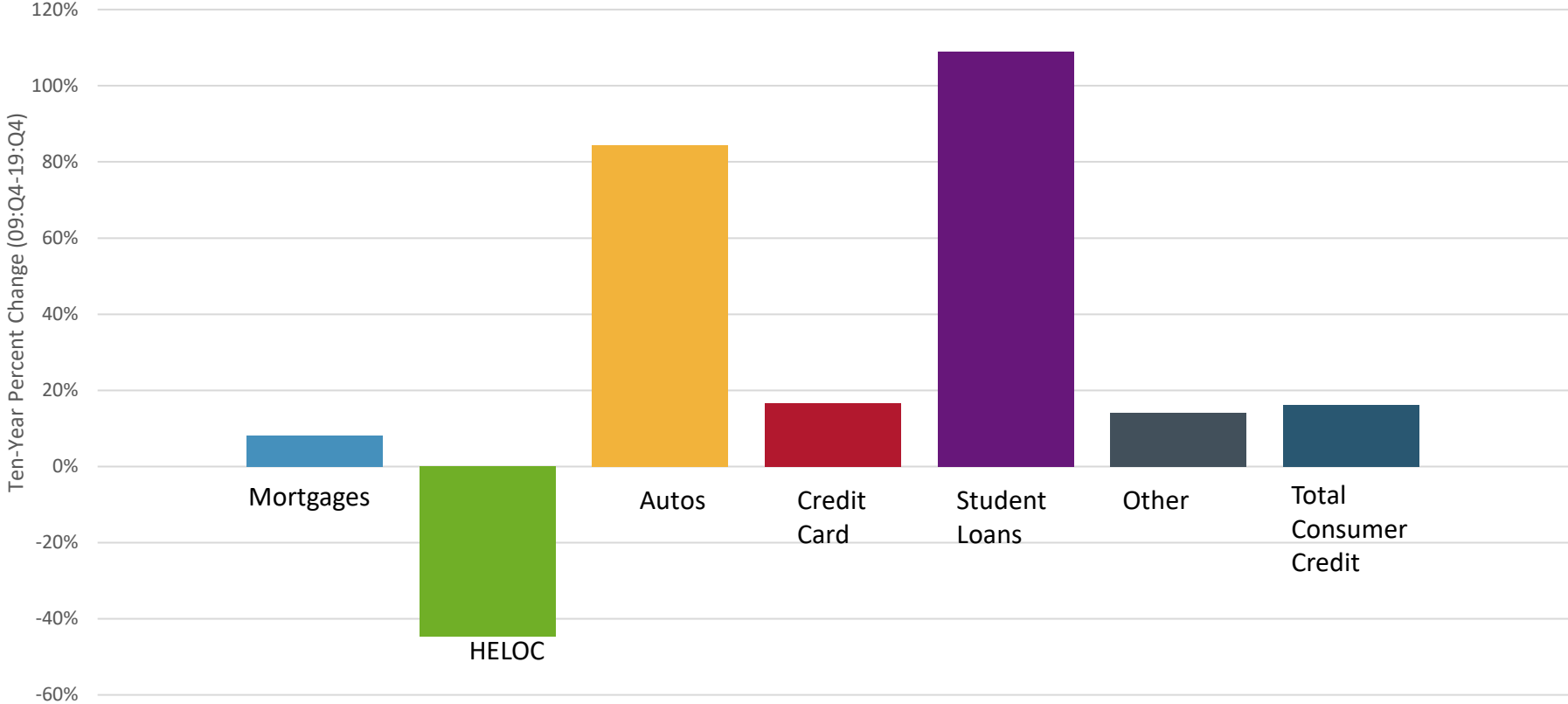
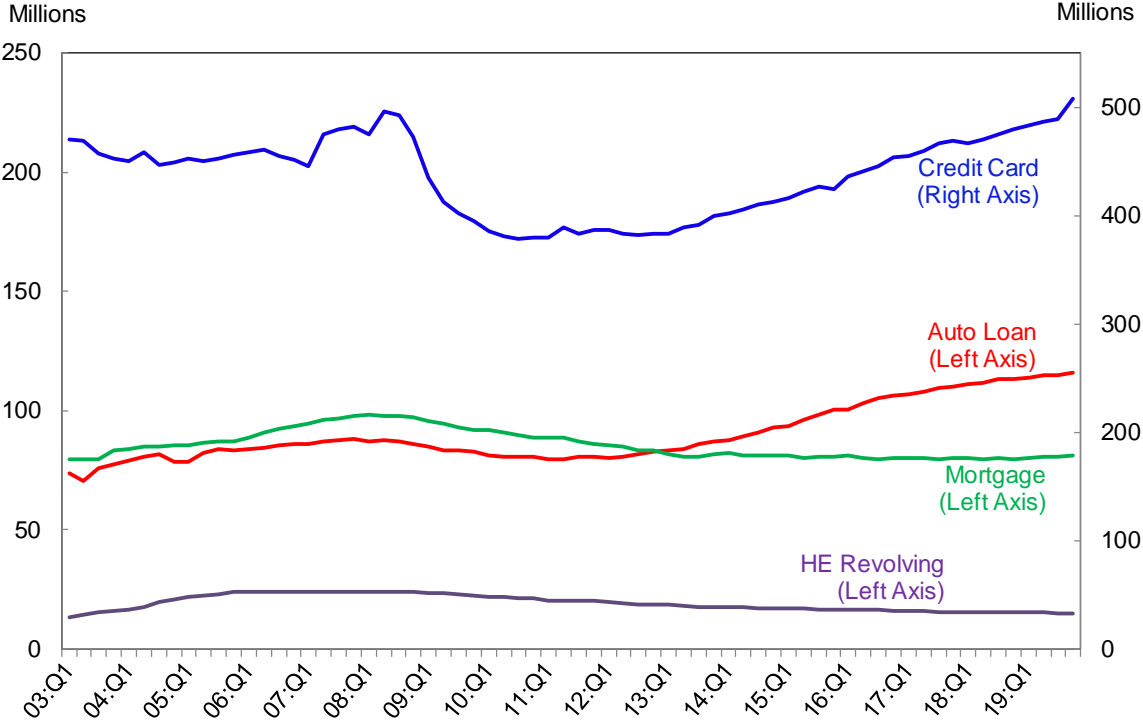


# Ten-Year Changes in Consumer Credit

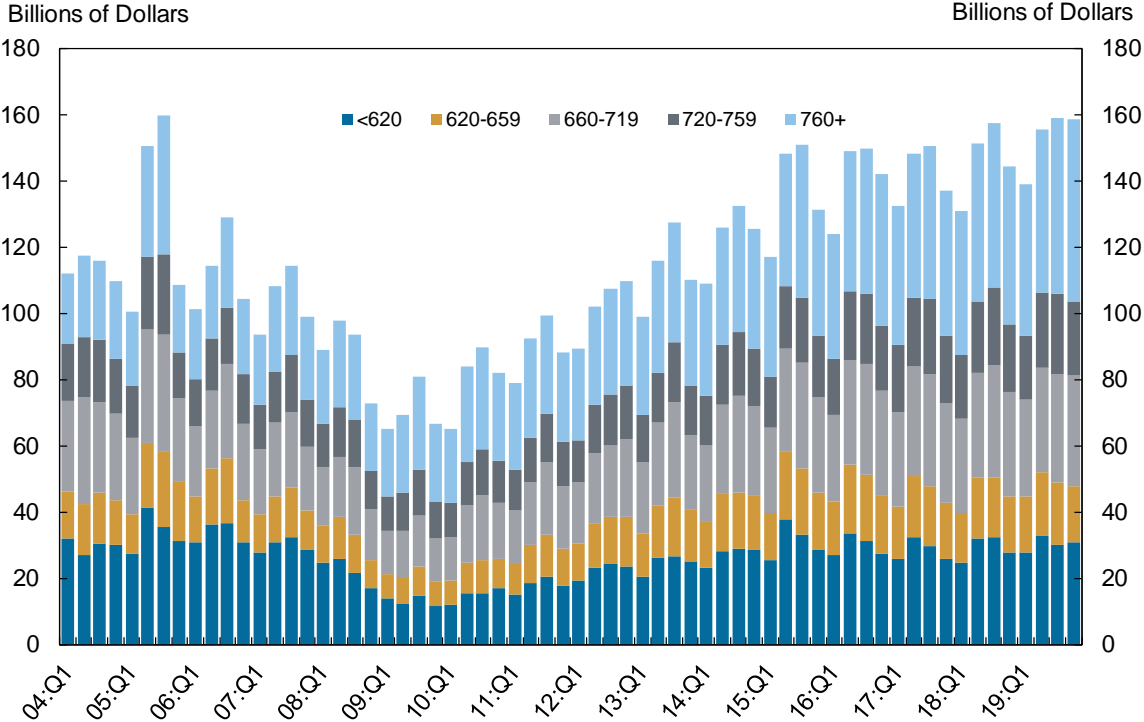


# Number of Accounts by Loan Type



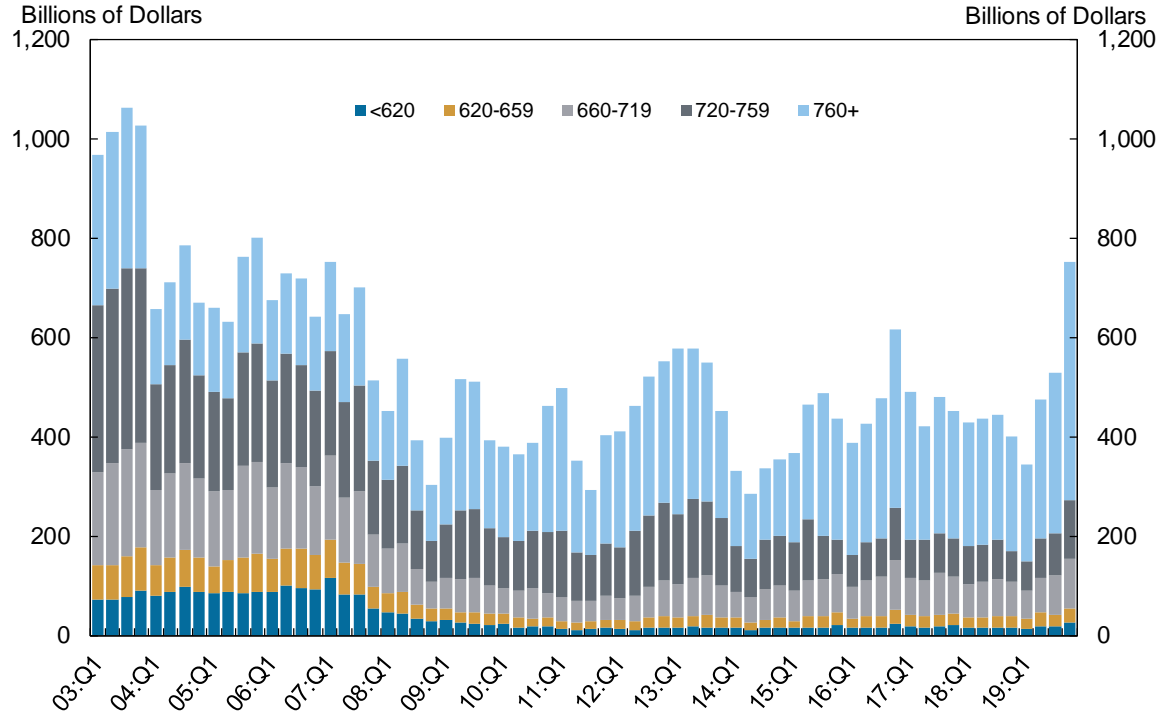
Source: New York Fed Consumer Credit Panel/Equifax

# Auto Loan Originations by Credit Score\*



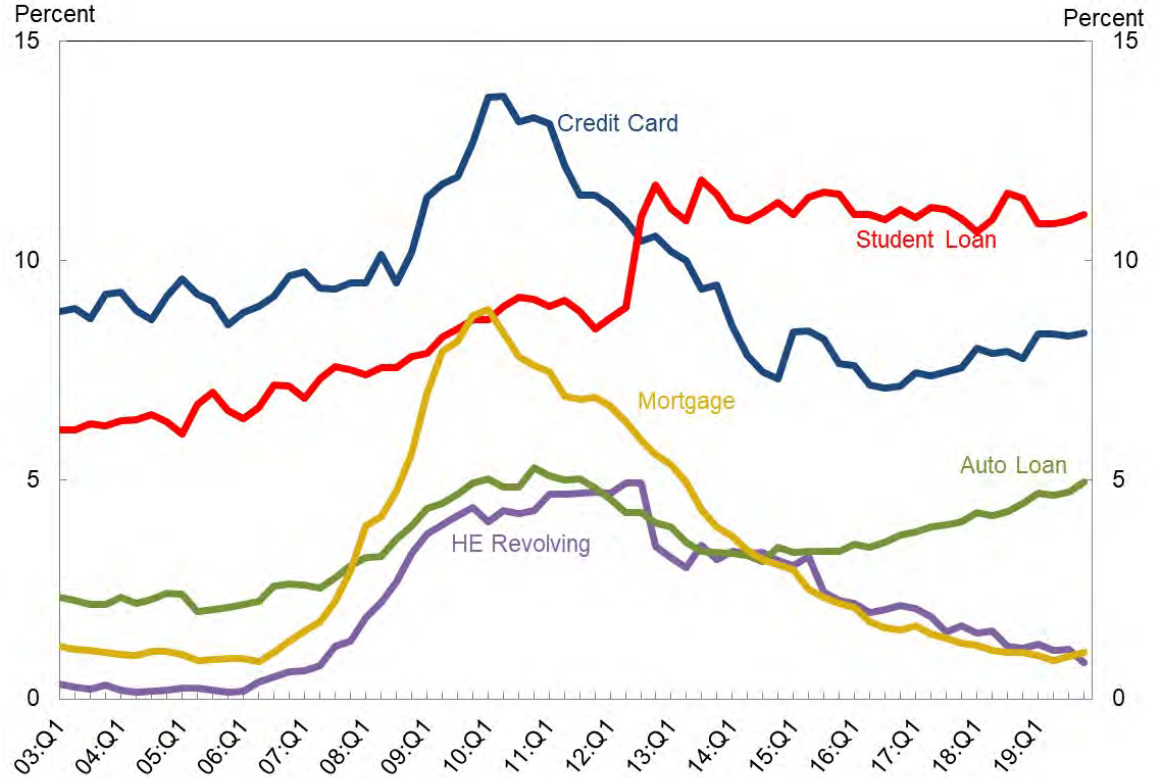
Source: New York Fed Consumer Credit Panel/Equifax  
 \* Credit Score is Equifax RiskScore 3.0

# Mortgage Originations by Credit Score\*



Source: New York Fed Consumer Credit Panel/Equifax  
 \* Credit Score is Equifax Riskscore 3.0

# 90+ Delinquency by Credit Type



Source: New York Fed Consumer Credit Panel/Equifax



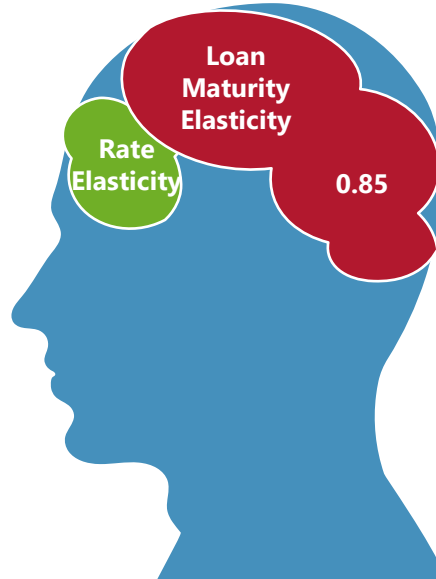
Why Are Auto Loan Balances Growing  
So Quickly?

# Borrowers Have Higher Maturity Elasticities Than Rate Elasticities

## Interest Rate Calibration

Consider Typical Loan:  
\$20,000 Loan Amount  
5% Interest Rate

A 10% decrease in offered interest rate (from 5% to 4.5%) would result in an a 1.7% increase in loan amount, from \$20,000 to \$20,338

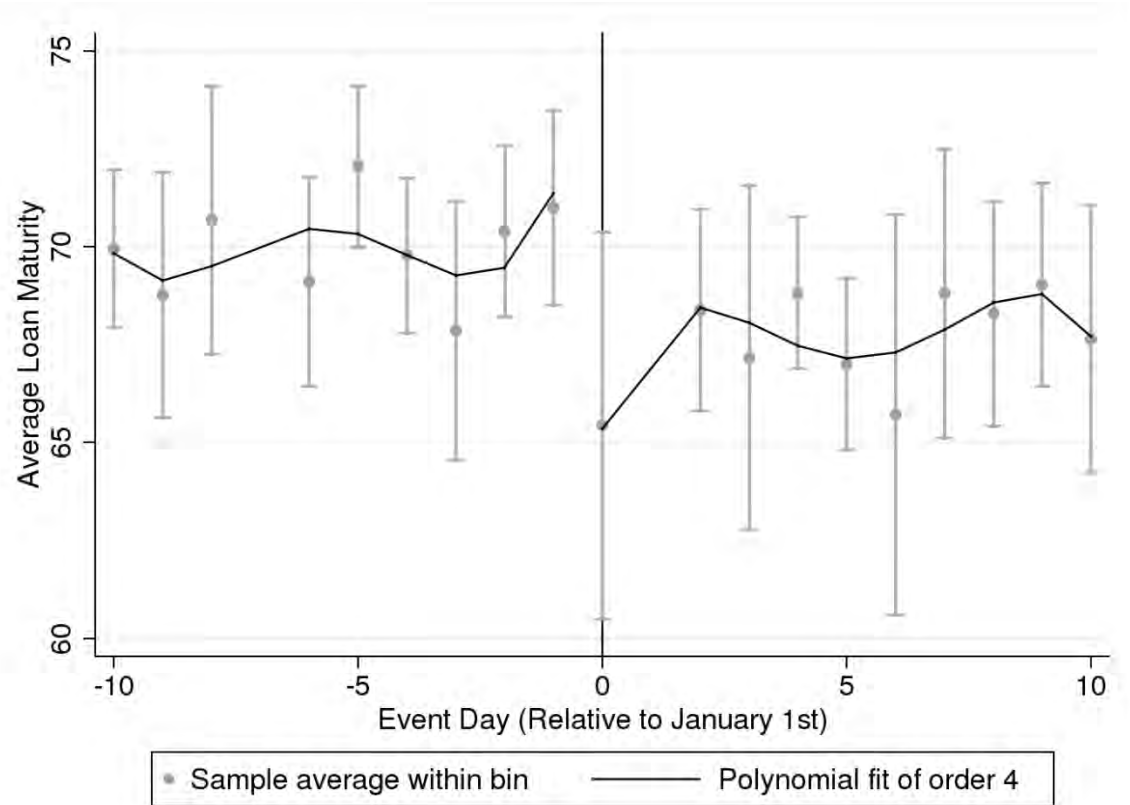


## Maturity calibration

Consider Typical Loan:  
\$20,000 Loan Amount  
5% Interest Rate

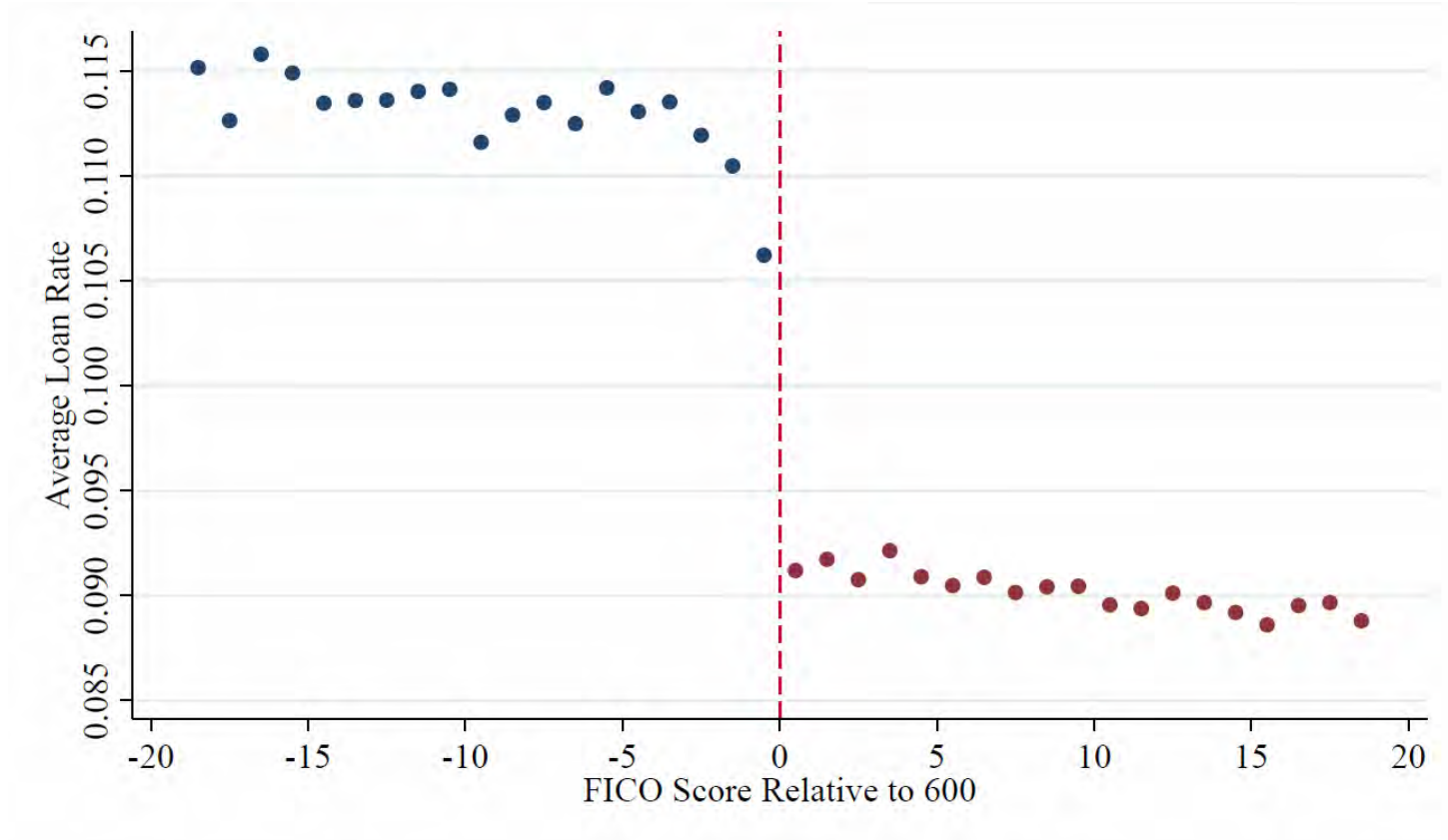
A 10% increase in offered maturity (from 60 months to 66 months) would result in an 8.5% increase in loan amount, from \$20,000 to \$21,708

# How do we Measure Maturity Elasticity?

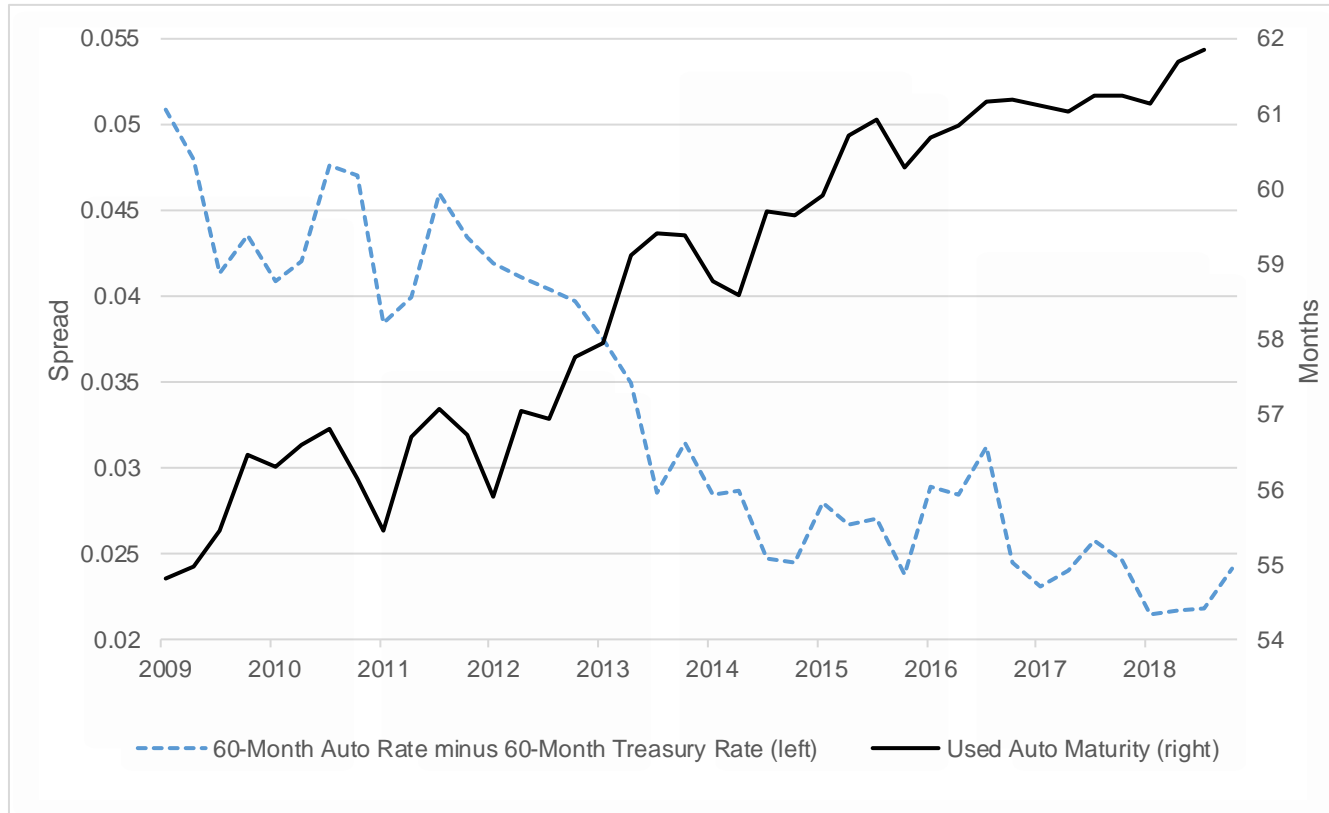




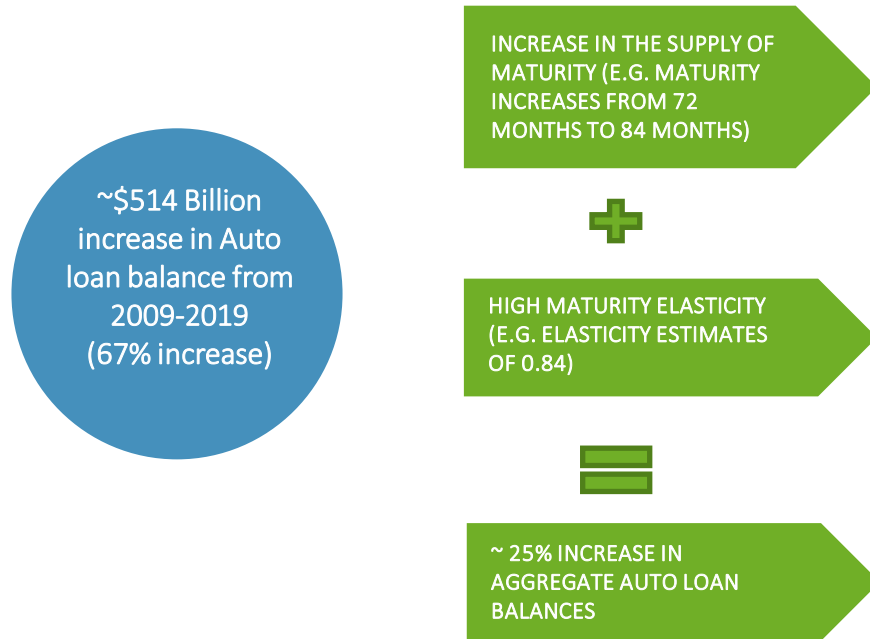
# How do we Measure Interest Rate Elasticity?



# Why Auto Loan Balances Are Growing So Quickly



# Back of the Envelope Calculation



**Punchline: About 25% of the total increase in aggregate auto loan balances could be explained by the combination of increases in offered maturities and large maturity elasticities.**

# The Monthly Payment Targeting Phenomenon

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