U.S. Consumer Payment Choice

Joanna Stavins

Senior Economist and Policy Advisor Federal Reserve Bank of Boston

Presented to Northeast Acquirers Association January 21, 2015





Disclaimers

• The views expressed here do not necessarily represent the views of the Federal Reserve Bank of Boston or the Federal Reserve System

• Results from the 2013 Survey of Consumer Payment Choice (SCPC) are preliminary and subject to change





Presentation Overview

Overview of the U.S. payments

U.S. Consumer payment choices

1. Adoption: What's in Your Wallet?

2. Use: How Do You Use It?

• What determines consumer behavior?

Concluding remarks

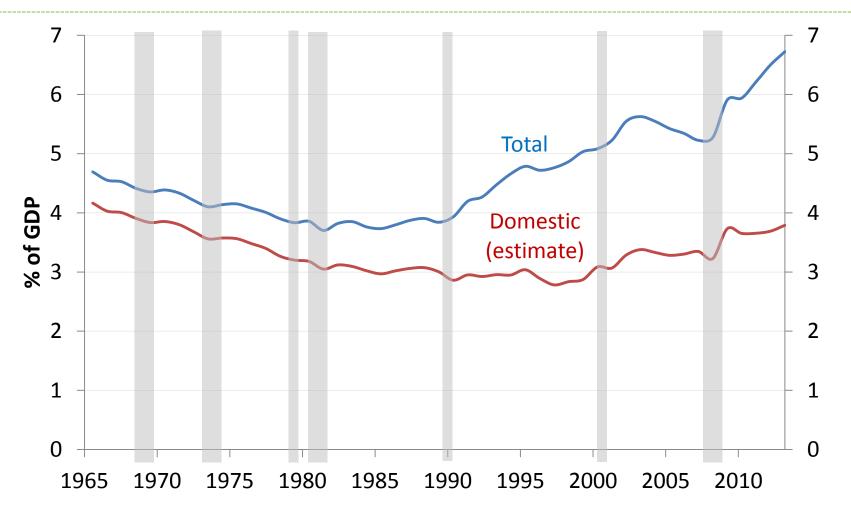


U.S. Payments: Consumers, Businesses, and Government





U.S. Currency in Circulation



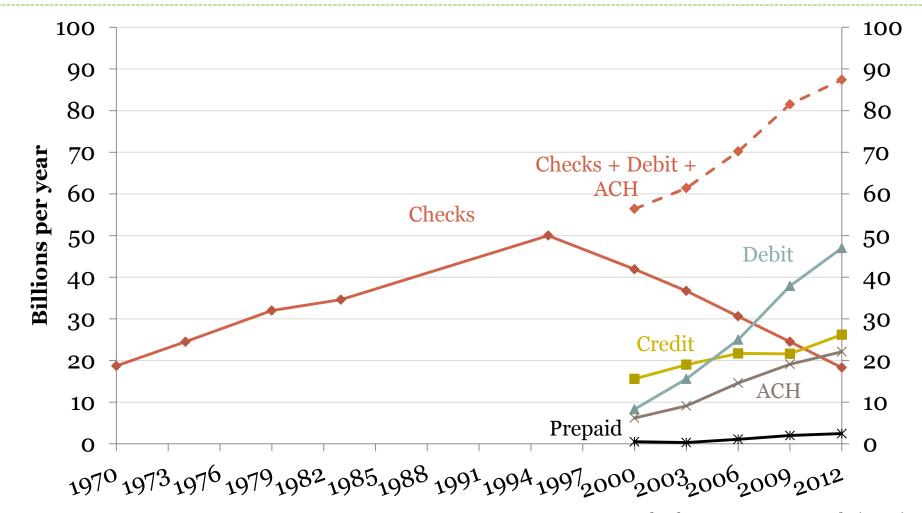
Source: Bureau of Economic Analysis / Haver Analytics, Federal Reserve Board / Haver Analytics, authors' calculations.







Number of Noncash Payments

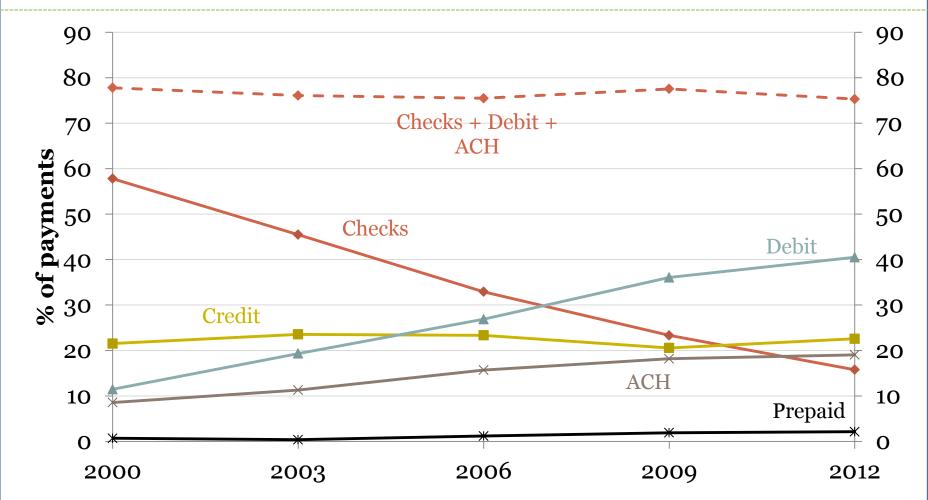


Source: Federal Reserve Payment Study (FRPS)





Share of Noncash Payments



Source: Federal Reserve Payment Study (FRPS).





What's in Your Wallet?
U.S. consumers only



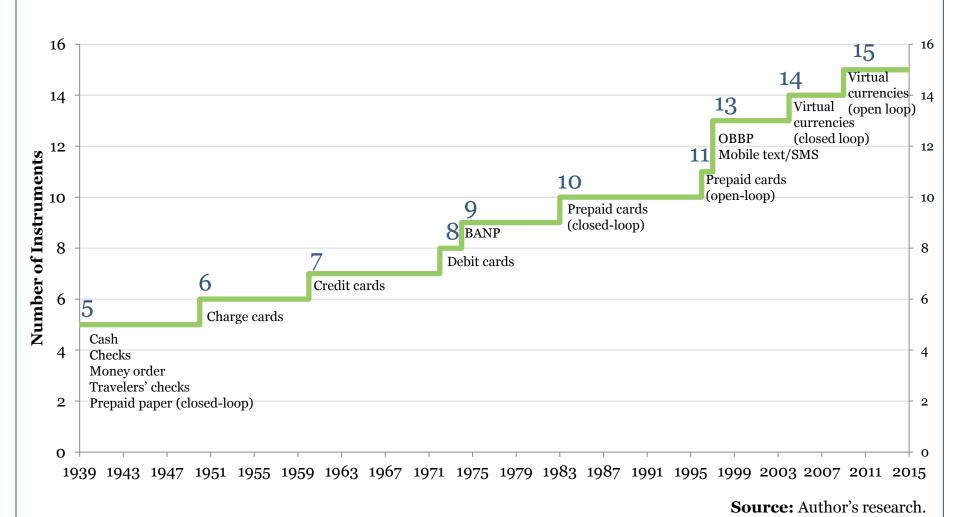
Cash Holdings (2013)

	Mean (\$)	Median (\$)
Total	508	65
On person (wallet, purse)	64	29
On property	461	9





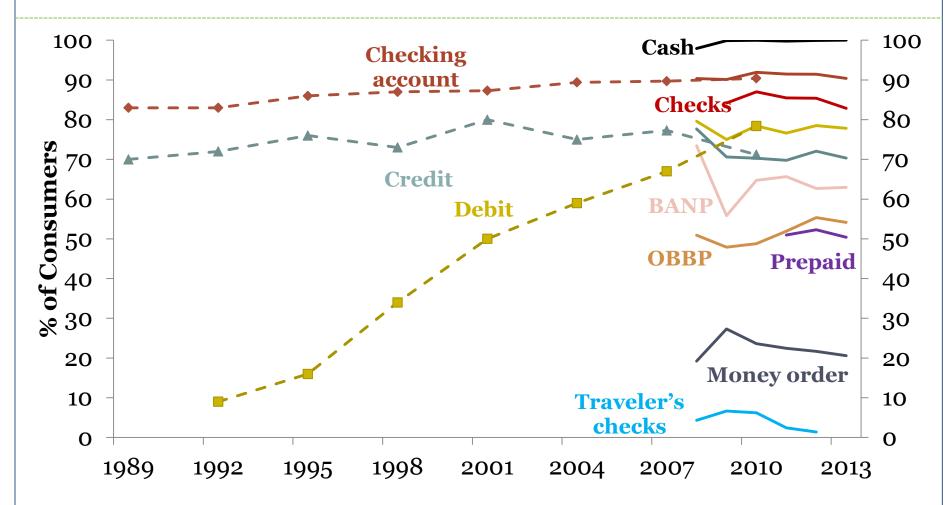
More Payment Instruments to Choose From



CONSUMER PAYMENTS

Research Center

Aggregate Adoption of Payment Instruments



Source: Survey of Consumer Payment Choice; Survey of Consumer Finance





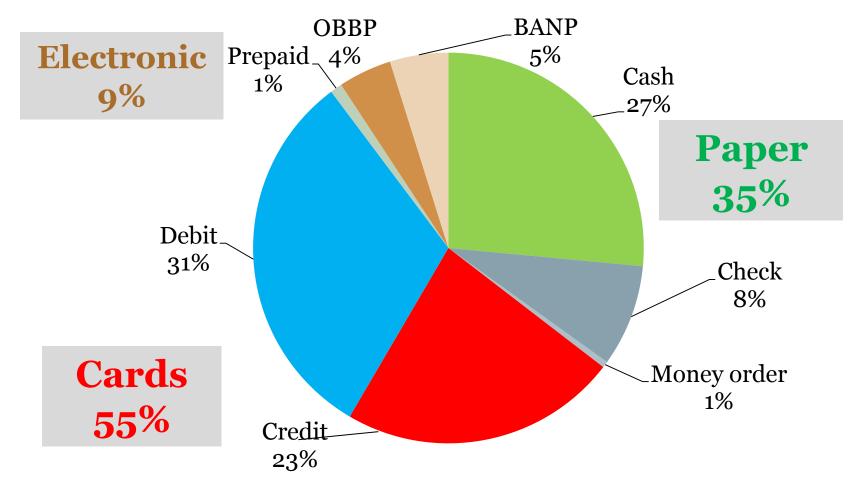


How Do You Use It?





Use of Payment Instruments (2013)

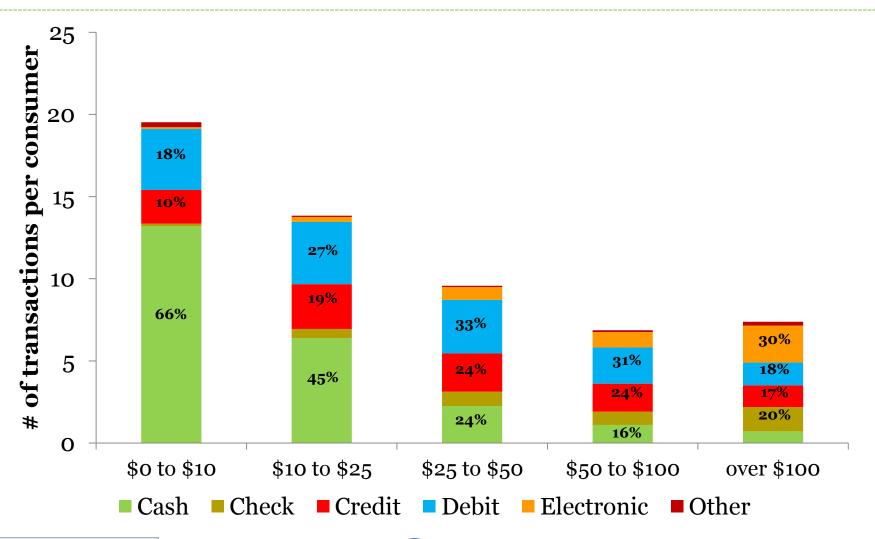


Note: 1% are paid with "Other"





Payments by \$ amount

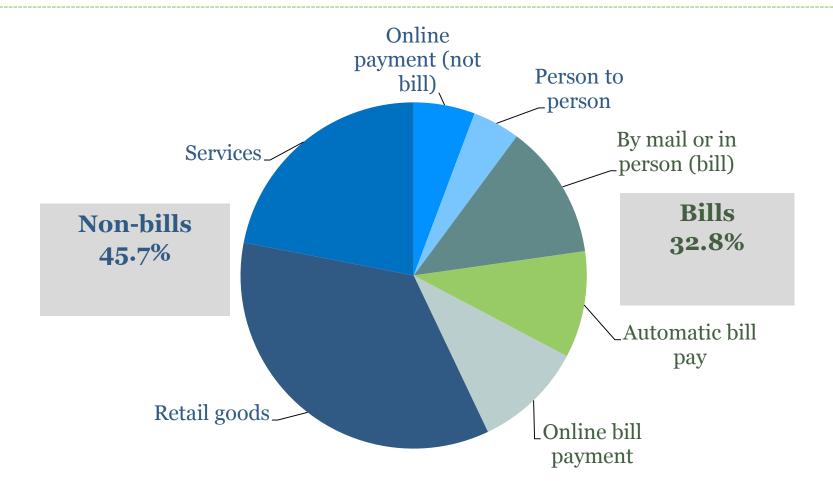








Payments by Transaction Type (2013)



2013 Survey of Consumer Payment Choice

C P CONSUMER PAYMENTS Research Center





Credit Cards: Consumers

	2013
% of households with credit cards	68.0%
% of credit cards households carrying a balance	38.1%
Median balance among households with a balance	\$2,300

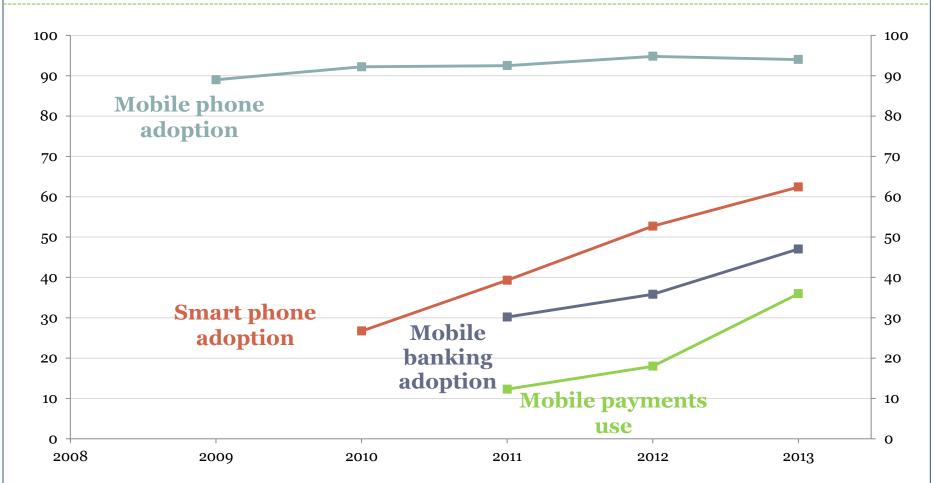
Source: 2013 Survey of Consumer Finances (SCF)

C P CONSUMER PAYMENTS
R C Research Center





Mobile Banking and Payments



Source: 2008-2013 Survey of Consumer Payment Choice





What Determines Consumer Payment Behavior?





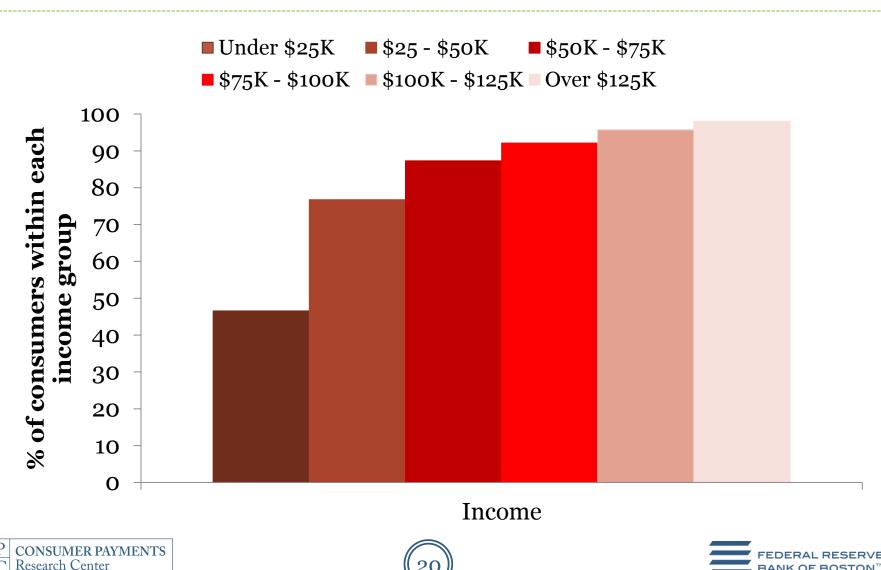
What Affects Demand for Payments?

- Demographics:
 - × Age
 - × Gender
 - **X** Race
 - **×** Education
- Income: individual and household
- Characteristics of payments:
 - Security: risk of theft/loss
 - Acceptance
 - × Cost
 - Convenience
 - Speed

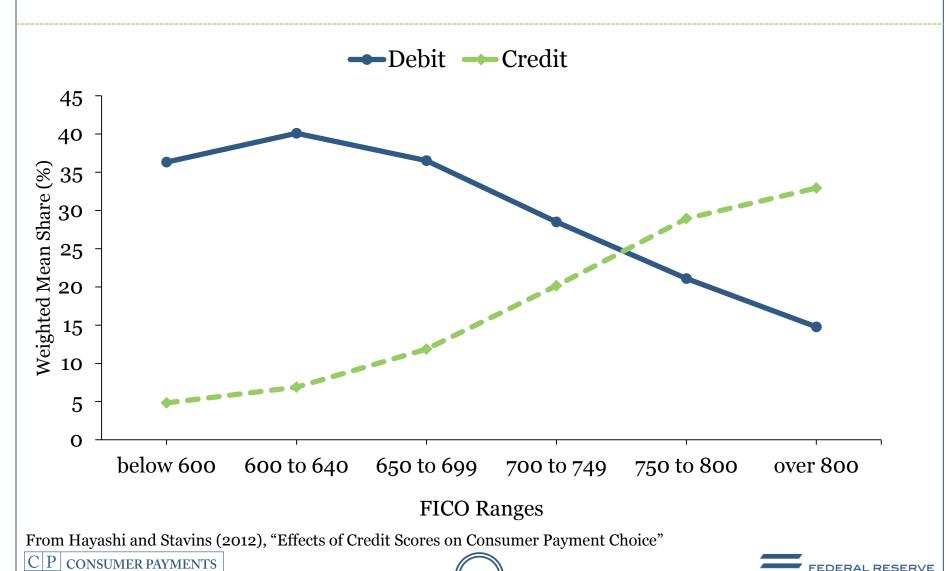




Credit Card Adoption Rises with Income (2013)



Credit Score and Payment Card Use



Research Center

Security Is Most Important!

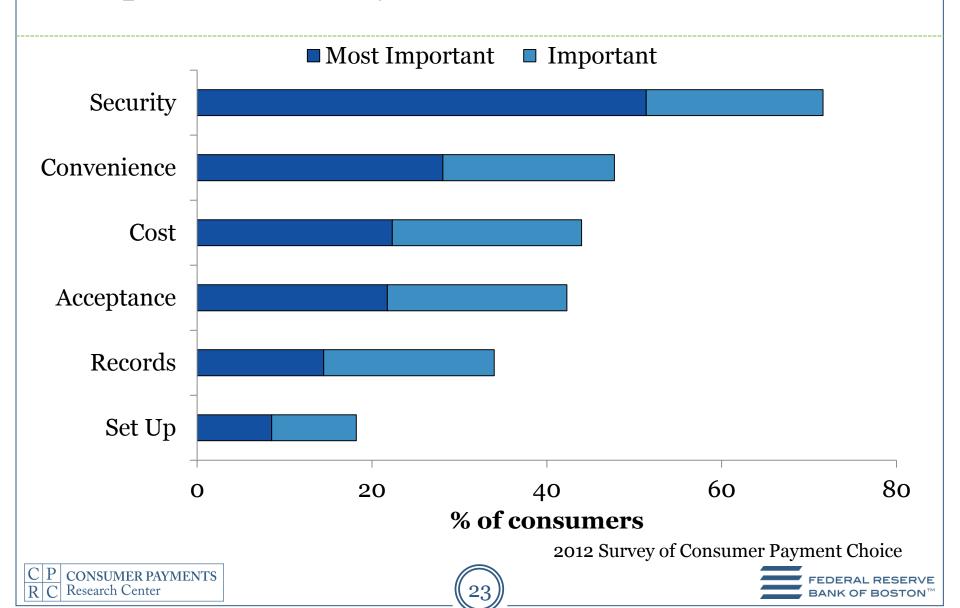
• Ranking of all characteristics

Characteristics	SCPC survey year					
Characteristics	2008	2009	2010	2011	2012	2013
Security	1	1	1	1	1	2
Convenience	2	2	2	2	2	1
Cost	4	3	3	3	3	3
Acceptance	5	4	4	4	4	4
Payment records	6		5	5	5	5
Set up	8		6	6	6	6
Control of timing	3					
Speed	7					

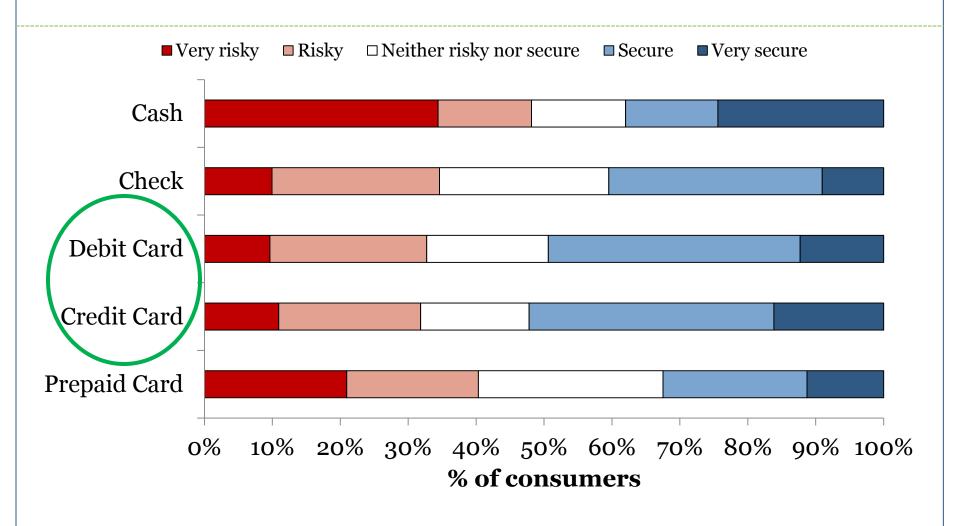




Importance of Payment Characteristics (2012)



Security Ratings by Payment Instrument

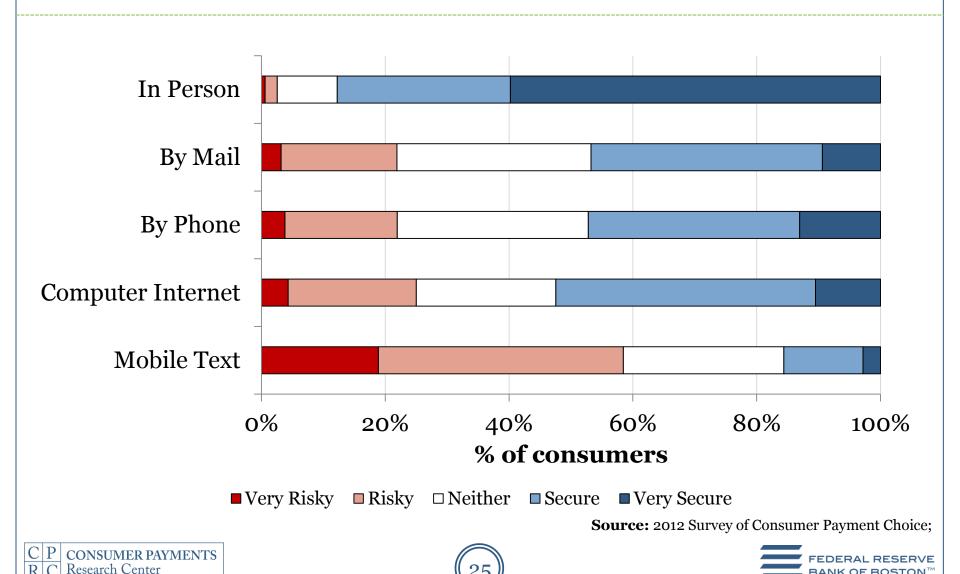




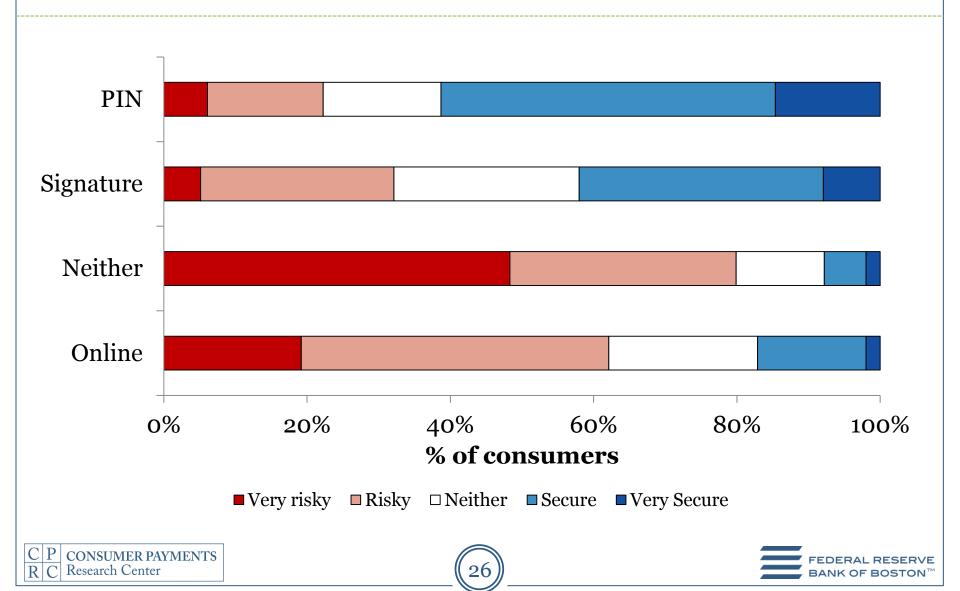




Security by Payment Location



Security by Type of Debit



Payment Method Adoption and Use

Higher debit and credit security → *higher use, BUT: small effect*

Adoption	Debit	Credit	Prepaid
Acceptance	*	*	***
Cost	***	***	
Convenience	***	***	
Set up	***	***	
Records	***	***	
Security of financial wealth		**	*
Security of personal information	*		
Security of transaction information			

Use	Debit	Credit	Prepaid
Cost	*	***	
Convenience		***	***
Records			*
Security of financial wealth	***	***	**
Security of personal information			*
Security of transaction information		*	

C P CONSUMER PAYMENTS R C Research Center



Merchant Steering

- Merchants are now allowed to discount or surcharge based on payment method
- BUT: still very rare, only selected markets
- % transactions with discount or surcharge:

Cash Discount	Debit Discount	Credit Surcharge
1.7	1.8	1.2

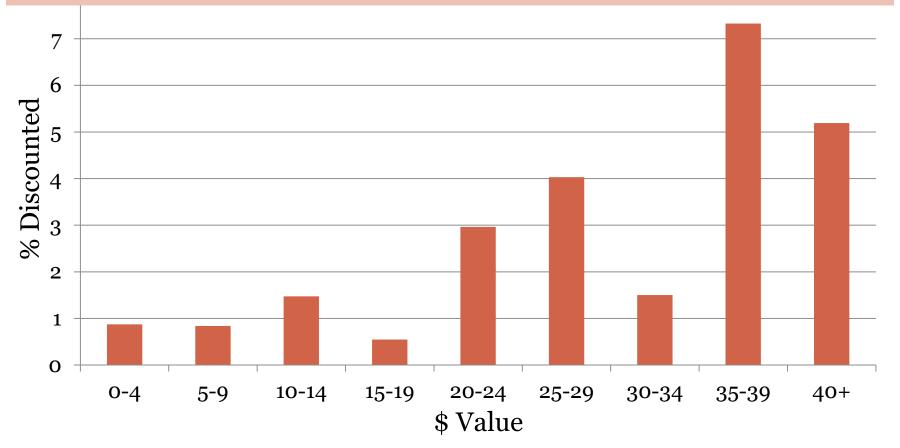
Source: 2012 Diary of Consumer Payment Choice





% Cash Transactions with Discount

Transactions over \$20 more likely to get cash discount







Concluding remarks





Major trends

- Cash is alive and well, checks declining
- Transformation in payment markets
 Paper → electronic
 - Consumer preferences, technology, coordination
 - Technology is changing fast but payments are not
- Battle over payment card revenues
 - Credit CARD Act of 2009
 - Interchange fee regulation for debit cards (Reg II)
 - Merchants can steer consumers to cheaper payments







Federal Reserve 2012-2016 strategic plan

- Planned improvements to U.S. payment system
 - **Faster:** deduction and notification time
 - Safer: less fraud, loss, and data breaches
 - **▼** EMV finally implemented?
 - Improved cyber security?
 - More attention to end users
 - Consumers, businesses, nonprofits





Consumer Payments Research Center (CPRC)

Find papers, articles, and data on consumer payments

http://www.bostonfed.org/economic/cprc

Joanna Stavins
Senior Economist and Policy Advisor
Federal Reserve Bank of Boston
joanna.stavins@bos.frb.org





