

# Overview: Credit Card Case

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- Market Definition
  - Review
  - Market Participants
  - Pricing Discussion
- Other Issues in Case
  - Timing and Strategic Interaction
  - Market Power
  - ...

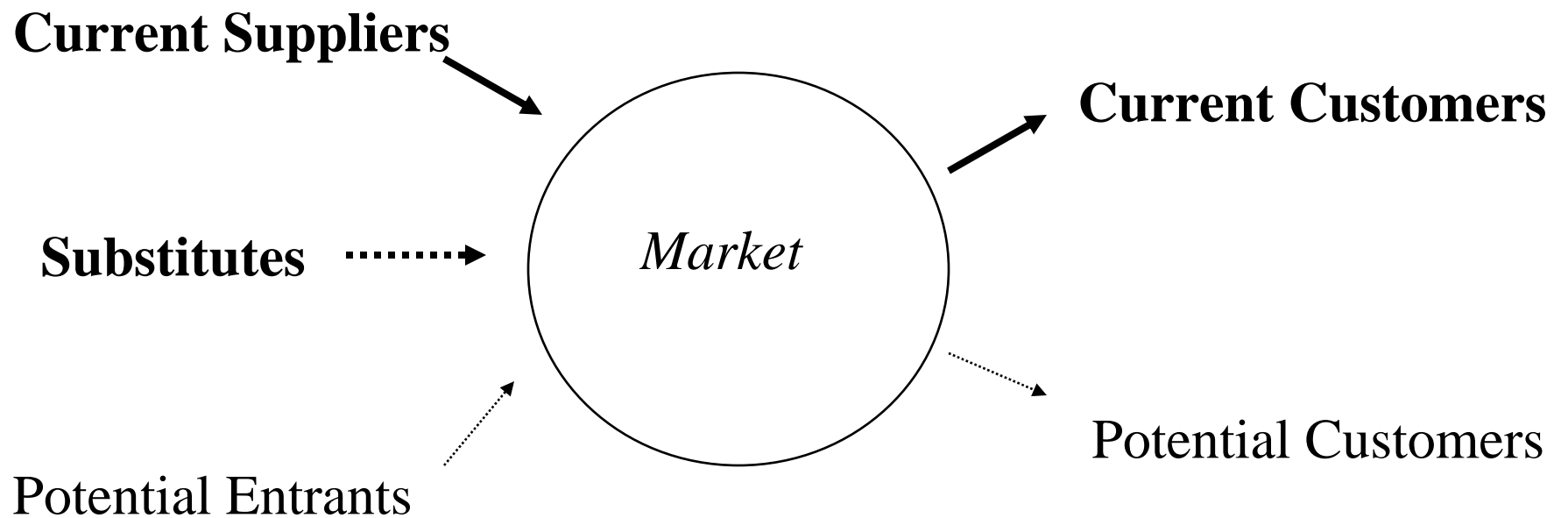
# Market Definition : Review

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- Definition : collection of buyers and sellers that, through actual or potential interactions, determine the price of a product
- Point of departure:  
`If I try to raise (lower) prices, where will current customers go (new customers come from)?'
- Remarks :
  - Always relative to a specific question
  - Important for business strategy, pricing, anti-trust

# Market Definition

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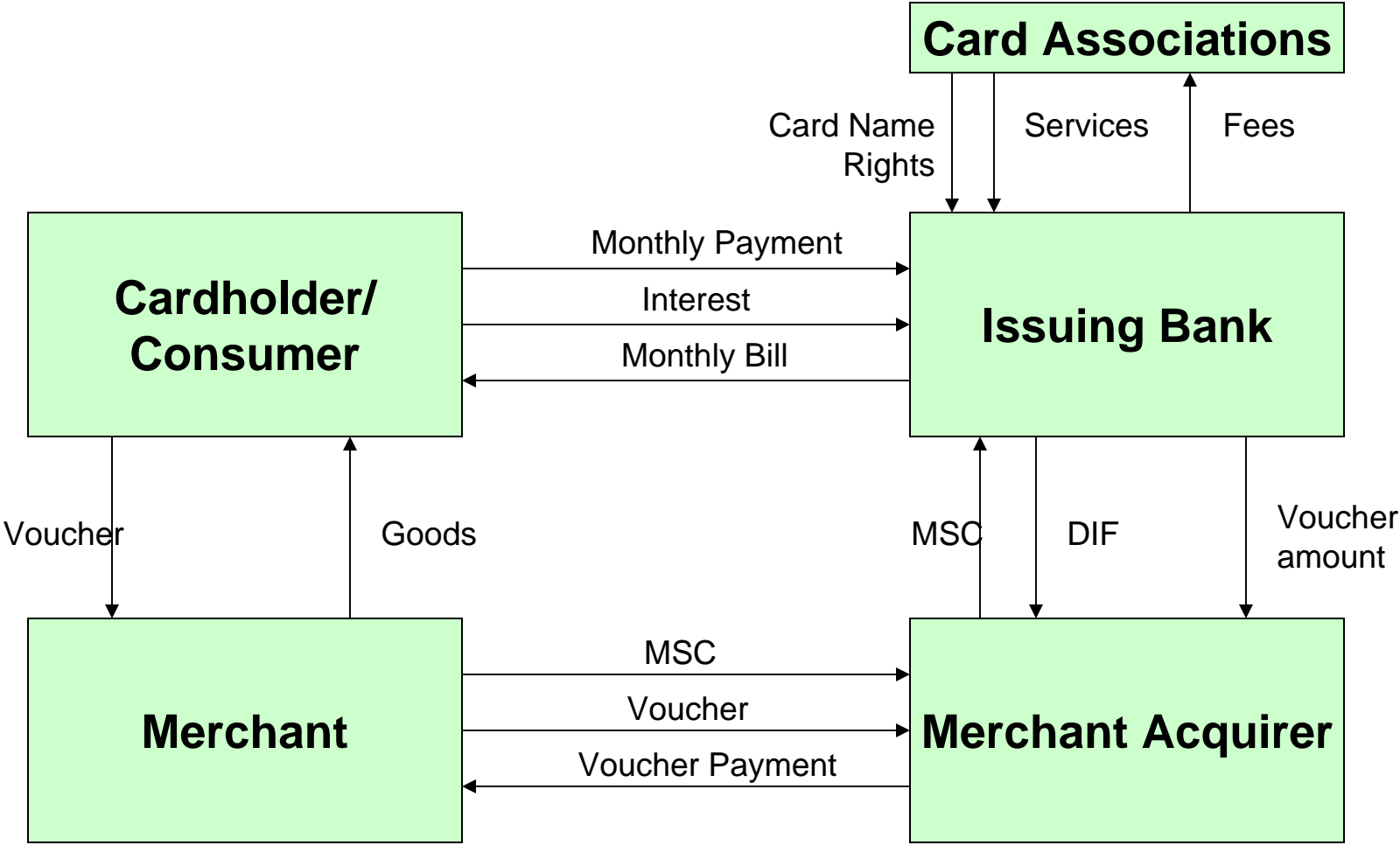


# U.K. Credit Card Industry

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- Who are the players?
- What are the issues?

# UK Credit Card System



Source: Pricing for Profit, Exhibit 2

# The Product 'Credit Card'

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- Payment mechanism
  - safe
  - convenient (small, everywhere accepted, high limit, quick)
  - insurance (against theft, CDW, ...)
  - proof of ID
  - ...
- Grace period or "Float"
  - Remark: what is this worth to a consumer?
- Easy credit

# Direct Substitutes

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- Other banks that supply Visa and MasterCard
- Debit Card
- Charge Card (AmEx)
- Store cards
- Cheques
- Cash
- Other sources of credit

# Longer-range Substitutes

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- Potential Entrants
  - New credit cards
  - New payment systems (smart card)
  
- Note : Lecture 7 discusses network effects



# Increasing the Interest Rate

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- Increase income per customer but lose customers
- Relevant substitute : other banks (and to lesser extent other credit sources and no credit)
- Relevant customers are revolvers
- The customers you lose are those with the best alternative opportunities  
=> you retain the higher risk customers.  
Key consideration : switching cost
  
- Note : Lecture 19 discusses adverse selection

# Important Consumer Characteristics

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- Consumption pattern
  - Transactors : pay balance every month
  - Revolvers : use credit continuously
  - Occasional credit users
- Level of credit risk
  - Low risk
  - High risk

# Charging a Fixed Fee

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- Increase in Income
  - Key question: is this the best way to raise income?
- Selective impact => Sorting => Good or Bad?
  - Lose least profitable customers? Will that increase profitability?
  - Make all segments profitable
  - Impact elsewhere?
- Note : Lecture 9 and 10 discuss pricing schemes

# Profitability of Consumer Groups

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	Avg. balance	Sales / card	Interest bearing balance	Interest Income	MSC income	Interest cost	Other cost	Net
Transactor (30%)	80	960	0	0	19.2	8	29.76	(18.56)
Occasional revolver (40%)	260	1080	120	32.19	21.6	26	33.48	(5.69)
Revolver (30%)	660	780	560	150.22	15.6	66	24.18	75.64

# Profitability : Assumptions

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- APR : 26.8%
  - Cost of Money : 10%
  - MSC : 2% of sales
  - Cost : 3.1% of sales (Exhibit 5)
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- Note : Lecture 4 discusses economic costs

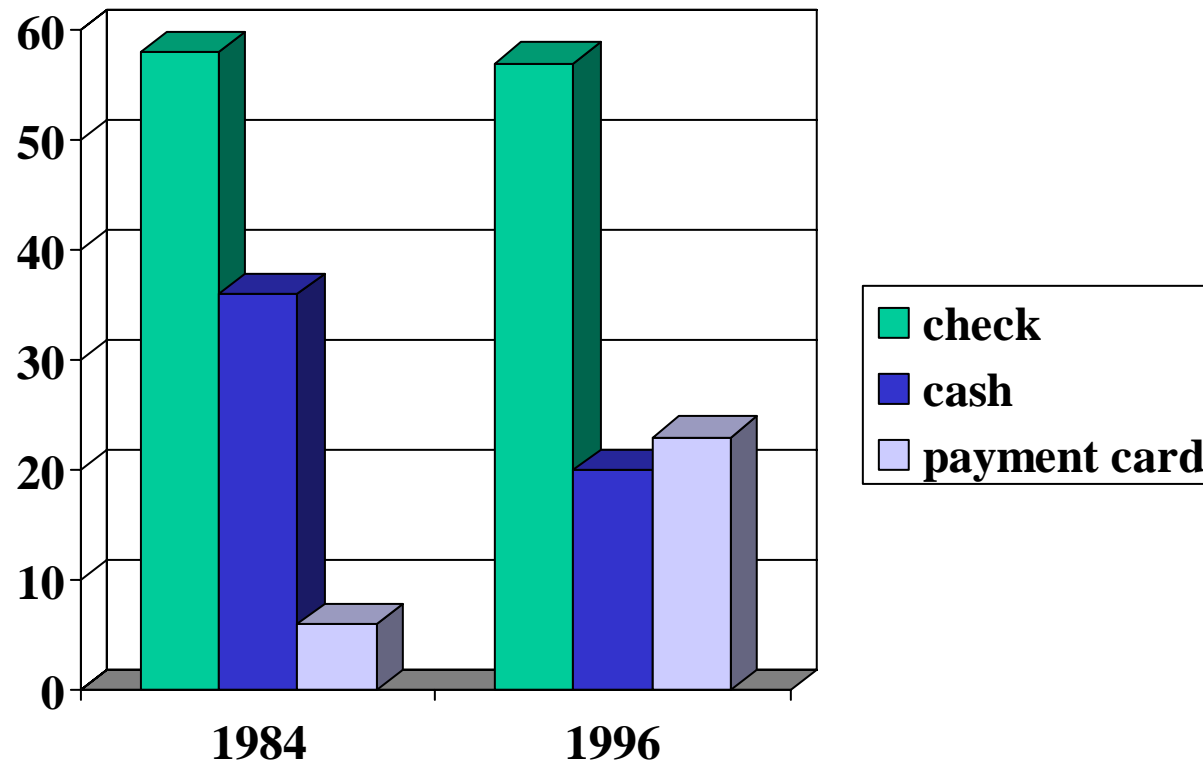
# Measuring Substitutes

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- Cross-price elasticity
- Correlation of Prices
- Correlation of Market Shares

# Payment Mechanism Substitution

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Evolution of \$ volume shares of different payment mechanisms in US (in %)

# Timing

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- Should Barclays go first?

- Barclays payoffs :

		Other Bank	
		Move now	Wait until other moves
Barclays	Move now	+2	-4
	Wait until other moves	+10	-2

- Note : Lectures 12 and 13 discuss game theory and prisoner's dilemma



# Further Issues

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- System level and market power
- Market of retailers: Incentives in negotiating
- What happened in the U.K.?

# System Level & Market Power

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- What if Visa imposes the annual fee on all the issuers?
- Definition of market power (US DoJ):  
*"ability of one or more firms profitably to maintain prices above competitive levels for a significant period of time"*
- Does Barclays have market power? Visa? Visa and MasterCard?
- Note : Lectures 14 and 15 discuss collusion and anti-trust

# Market of Retailers

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MSC are negotiated by acquiring banks but get passed on to issuing banks

- Do these banks have the right incentives in negotiation? More or less, because they are also issuers.
- With specialized acquirers as in U.S, you need different system: MSC goes to acquirer (who now pays interchange fee)
- BUT, the acquirer still does not take into account the effect on the whole system. The choice of interchange fee is key to this.

- Note : Lectures 18 and 20 discuss incentives and externalities

# What Happened in the U.K.?

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- Feb '89 : Barclays considers an annual fee
- Aug '89 : Lloyds announces annual fee, Barclays waits
- Feb '90 : Annual fee takes effect; Lloyds estimates loss of 10% of its credit card customers
- Mar '90 : Lloyds estimates loss of 20% of its customers; Lloyds credit card profits down substantially relative to other banks
- Apr '90 : Barclays announces annual fee, to take effect in June
- During '91 : Midland and Natwest also introduce annual fees

# Take Away Points

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- Market Definition can be complex
  - be clear about the question
  - be clear about the product (function)
  - consider both supply and demand
- Economics is directly relevant to business decisions
  - economic cost
  - pricing
  - sorting
  - game theory

# For Next Time

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– Sugar Industry Case:

- Study the case
- No need to prepare answers to the questions in the case