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PRODUCER PRICE INDICES

SESSION 3: Quality Adjustment and Fitness for Use

THE DEVELOPMENT OF A UK CORPORATE SERVICES PRICE INDEX FOR BUSINESS RAIL FARES

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Outline of presentation

- 1. Introduction
- 2. Construction of CSPI for business rail fares
- 3. Quality adjustment considerations

Introduction

- Prices for passengers travelling on business
 - Part of overall CSPI project (business-to-business services for intermediate consumption)
- Same data source as for consumer price index
- Combination of survey and administrative data to construct CSPI
- Number of quality adjustment possibilities

Construction of the price index (1)

Strategic Rail Authority (SRA):

- Regulatory body
- Data collection from all train operating companies, since 1995
- Statistics on rail usage, performance, fares, rail freight etc.

Construction of the price index (2)

SRA's rail fares index:

- Data from automated ticket sales system, representing over 90% of all transactions
- Price relatives for ticket type
- "Basket" of tickets/journeys fixed for one year at a time and index annually chain-linked
- Annual indices from 1995 onwards

Construction of the price index (3)

SRA's rail fares indices published:

- Annual figures, every January
- By class of travel (first/standard)
- and type of operator

Construction of the price index (4)

Use of SRA's rail fares indices:

- Standard class: consumer price index
- Weighted combination of first and standard class indices for CSPI?
- First class = inappropriate proxy for CSPI

Construction of the price index (5)

National Passenger Survey results (2001-02):

- Journeys by type of ticket, and
- purpose of journey
- 13% of all journeys were on business
 - (and 58% of first class journeys)

Construction of the price index (6)

NPS data combined with revenue data collected by SRA

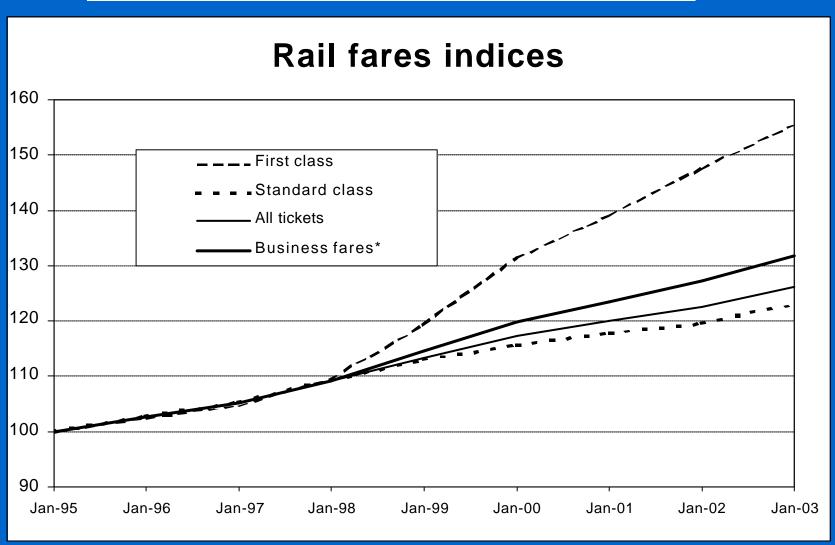
- Revenue data available by ticket type (same types as for NPS results)
- Applied business travel proportions to revenue figures to estimate revenue from business travel in each class

Construction of the price index (7)

Estimated weights for each class:

	% of journeys on business	Total revenue in 2000 (£m)	Estimated revenue from business travellers (£m)	As % of total
Total	13%	3,459.2	496.7	100.0%
1st class Standard		266.5 3,192.7	135.2 361.4	27.2% 72.8%

Construction of the price index (8)



Comments on CSPI

- Excellent coverage
- Business element estimated
 - No account of length of journeys
- Within year movements

Quality Adjustment (1)

Two main types?

- Changes in the number and range of on-board facilities and services
- Changes in performance/punctuality

Changes in the ticket types available – already accounted for

Quality Adjustment (2)

Difficulties:

- some aspects of quality not unknown at purchase
- differing consumer expectations?
- Post-consumption assessment of quality needed?

Quality Adjustment (3)

Possibilities:

- Adjust for delays and cancellations by valuing time lost?
- Combine train performance data with prices somehow

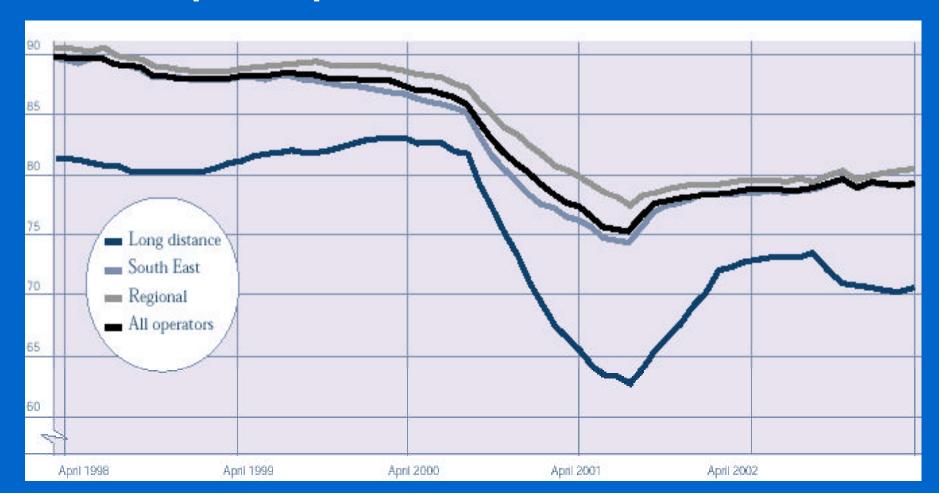
Quality Adjustment (4)

Potential data sources:

- SRA's automated train monitoring system
 - "Public performance measure"
- National Passenger Survey:
 - surveys passenger satisfaction

Quality Adjustment (5)

SRA's public performance measure:



Quality Adjustment (6)

NPS: top 10 factors affecting passengers' satisfaction:

- 1. Punctuality/reliability
- 2. Handling of delays
- 3. Length of scheduled journey time
- 4. How station staff deal with requests for help or information
- 5. Ease of getting on and off the train

Quality Adjustment (7)

Aspects of quality assessable at point of purchase?

- journey time improvements
- entitlement to complimentary drinks:
- comfort improvements
- provision of extra facilities e.g lap-top docking points

Satisfaction survey results = proxy for above effects?

Quality Adjustment (8)

Further considerations:

- comparisons with goods and other services
- approach for consumer price index
- different treatment for business travellers?