



# Ticket Machine Usability Research 21 September 2010

#### **Sultana Idris**

Senior Research and Project Adviser e: sultana.idris@passengerfocus.org.uk



# Agenda

- Background
- Methodology and Sample
- Key Findings
- Disabled Passengers
- Recommendations



## Background

Ticket queuing times research at major stations (May 2008)

Buying a ticket at the station (October 2008)

Ticket queuing times at large regional station (Aug 2010)



# Queue times exceeding TSA

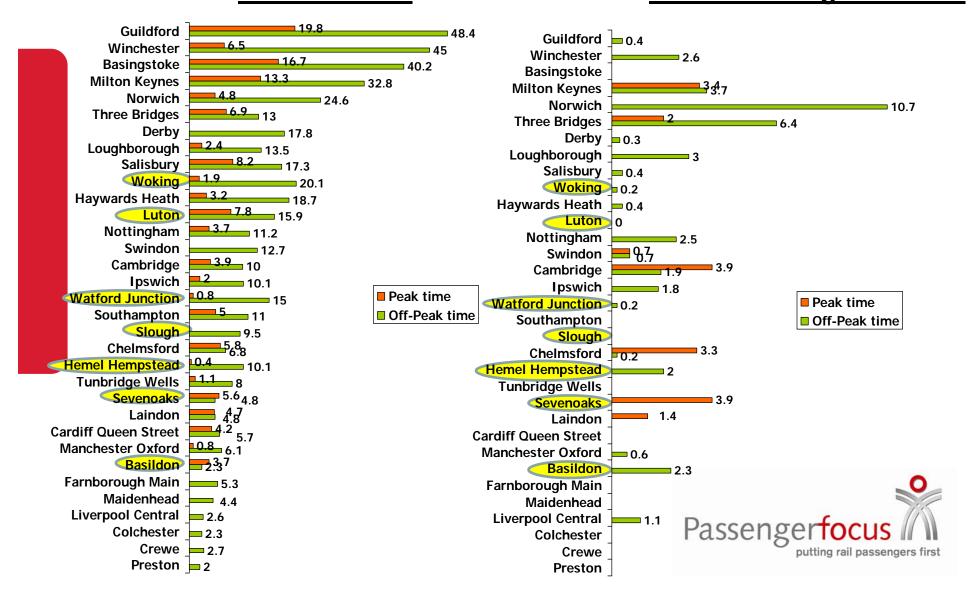
- Queue times exceeded TSA mostly during off-peak at the weekend
- However, during an individual day there are clear 'spikes' which don't necessarily mirror peak/off peak ticket sales times
- The biggest peak is lunchtime; possible reasons may include more leisure travellers.
- But TVMs have rise and falls in usage to a much lesser degree

Passenger

#### Queue times (%) exceeding TSA – TO & TVM separately

#### **Ticket Offices**

#### **Ticket Vending Machines**



## Methodology & Sample

Objective: To assess TVM usability from a passenger perspective and to provide guidelines for improvement

#### Fieldwork conducted in March and April 2010

#### 60 Semi-Structured Interviews (45 minutes each):

15 x (EMT, FGW, Southeastern and SWT)

# Sample included 6 interviews with respondents with disabilities:

- 2 x vision impaired
- 2 x wheelchair users
- 2 x learning difficulties



# Video – Tomorrow\_Op (5mins)



# Key Findings

 Majority unlikely to spontaneously consider TVMs as a natural alternative to buying ticket from staff:

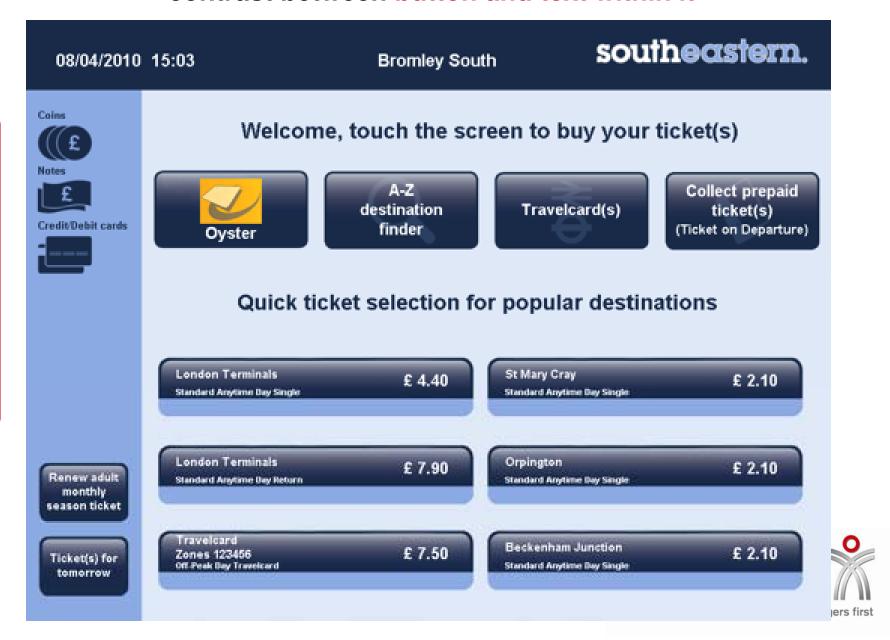
Most lack confidence to buy tickets from TVMs



#### Front Screen

ANDOVER. Railcard and child discounts can be applied **SOUTH WEST TRAINS** later in the ticket selection process. Standard Standard **London Terminals** £ 27.00 Anytime Basingstoke £7.20 Anytime Day Single Day Single Deutsch Français Standard Standard Anytime Basingstoke **London Terminals** £ 52.70 Anytime £7.50 Day Return Day Return Monthly Season Anytime One Day Car Park Ticket £ 5.00 £ 57.10 Zone R1256 London Day Car Park Station Car Park Renewal Travelcard Standard 7 Day Zone R1256 London £ 107.20 Reading Stations £ 12.80 Anytime Travelcard Tickets Day Return for Tomorrow Standard Standard Salisbury U1 London Anytime £ 58.70 Anytime £6.70 Day Return Day Single Collect Pre-Paid First Standard Salisbury **Tickets** U1 London Anytime £ 95.60 £7.00 Anytime Day Return Day Return More Popular 12.04.10 **Any Destination** Travelcards and tickets to Underground Zones 08:37 Destinations ers first

# Contrast between button and background more important than contrast between button and text within it



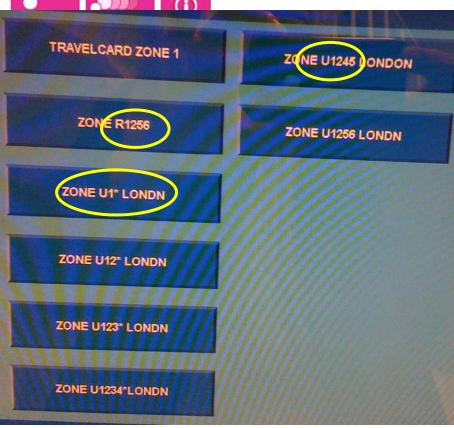
Video – zones 2-6 (3min)



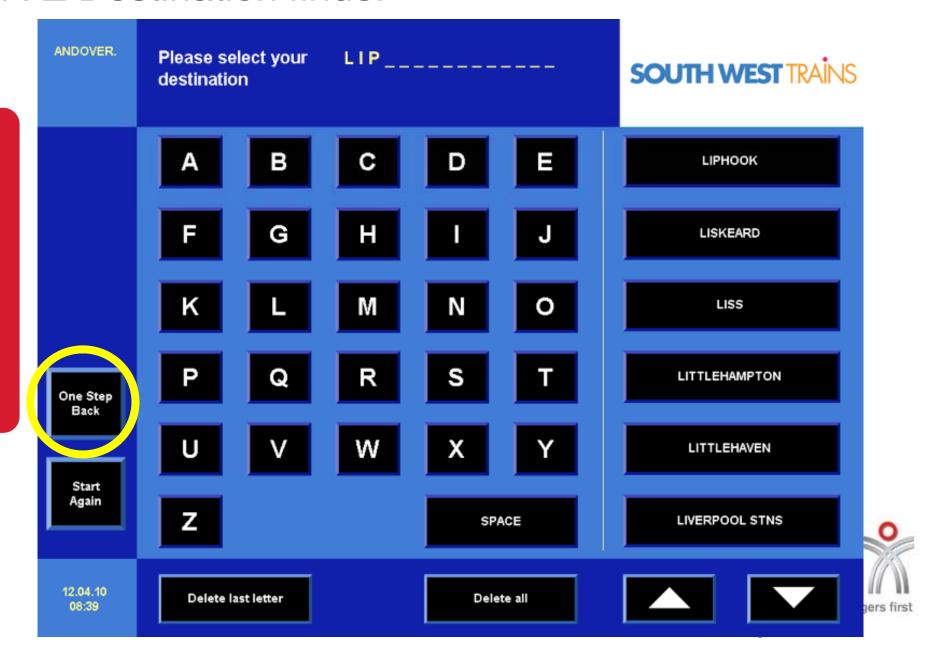
# Welcome to FastTicket. Popular Tickets. Prices shown for one adult. Please select from the other options for alternatives.



2	£132.00	First Inytime Single	LONDON TERMINALS
2 200	£159.00	Anytime Return	LONDON TERMINALS
2	£59.00	Off-Peak Return	LONDON TERMINALS
	£34.00	Off-Peak Day Single	LONDON TERMINALS
TRAVELCARD ZONE	£6.0	Bus Day Single	BRISTOL AIR BUS
ZONE R1256	£48.8	Super Off-Peak Return	LONDON TERMINALS
	£28.0	Super Off-Peak Single	LONDON TERMINALS



#### A-Z Destination finder

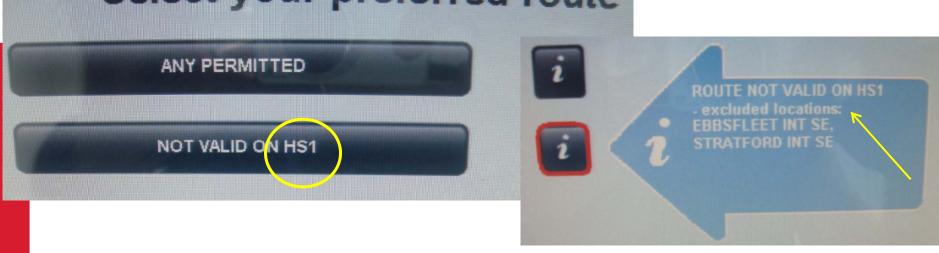


Video - HS1 (4mins)



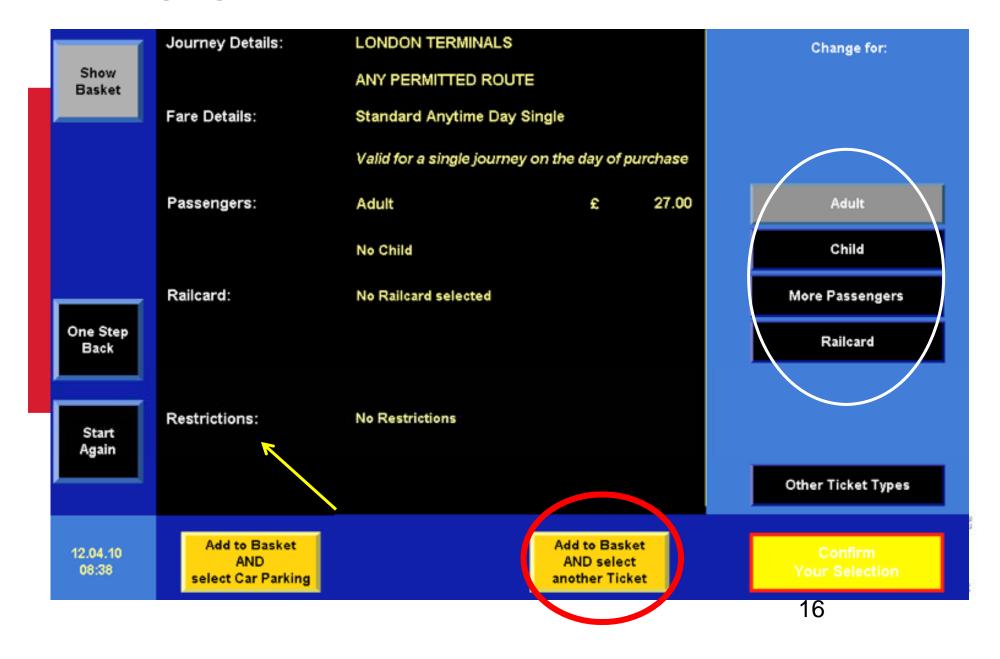
# Selecting ticket options

# Select your preferred route

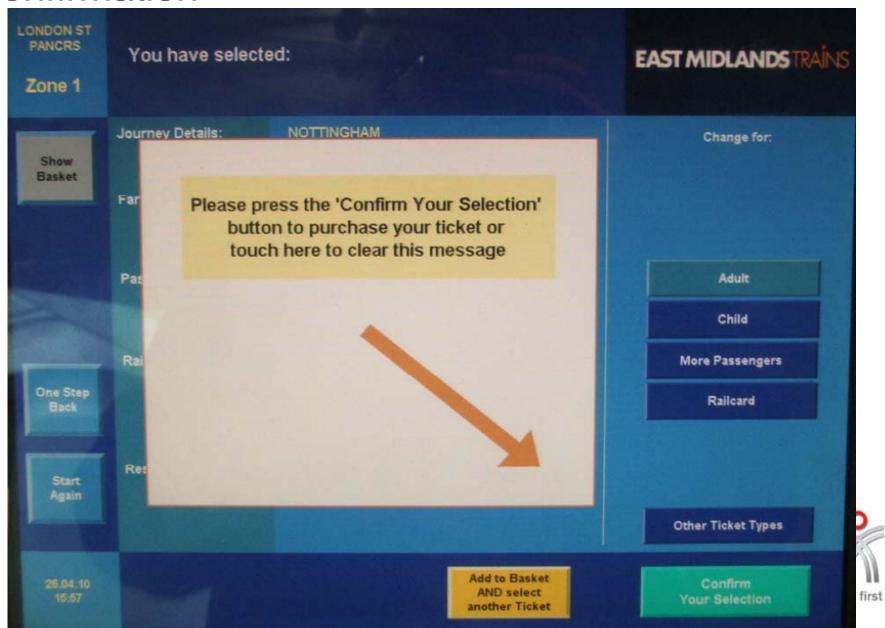




# **Changing Details**



#### Confirmation



# Disabled Passengers

- Screen glare (windows / lighting) cause problems
- Functional buttons need to be bold and clear
- Text, background colour and contrast impact on usability
- Processing information/route maps is a particular problem
- Even DDA compliant machines can be difficult for some wheelchair users



## Recommendations (1)

#### Sequencing:

- 1. Consider more screens with simplified steps
- 2. Consider A-Z destination finder as first step (with preset hot destinations as an option if required)

#### Layout:

- 1. Reduce volume of information on screens
- 2. Use colour contrast
- 3. Highlight one step / screen back option
- 4. Extend time-out option
- 5. Simplify the basket function



# Recommendations (2)

#### **Information and language:**

- 1. Improve labeling and terminology
  - 1st Class (rather than 'First')
  - 5 15 on Child ticket button
  - London Zones
- 2. Help button to provide information / assistance on:
- 3. Provide a clear confirmation summary (especially what is <u>not</u> included)
- 4. Provide staff / Floor Walkers for help and reassurance

#### Other:

1. Give further consideration to the needs of disability groups

### WHAT NEXT?

# Questions?

