

Transport Technology and Standards 2006/07 Choice and Public Transport Planned Research

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Introduction

Choice and Public Transport The development of smart cards for seamless travel, through ticketing and e-commerce remains an important element in enabling transport choice.

The research being undertaken through the TTS programme complements the main programme of technical and deployment support for smartcards.

We work closely with key stakeholders internally (Regional and Local Transport Policy and Delivery Directorates and the Rail Directorate), with OGDs (including DfES, DCLG, Cabinet Office and the Scottish Executive and Welsh Assembly), Local Authorities (including Merseyside, West and South Yorkshire, Cumbria, Nottinghamshire, Cheshire, Southampton and Transport for London) and within industry (the major bus and train operators and suppliers providing ticketing and smartcard systems). By doing this, we make sure our evidence stands up to scrutiny and that our work supports wider Government objectives for e-Government and e-Business. There is also an international dimension where work is ongoing to develop technical standards.

New Research

This document contains outlines of the research projects to be started in 2006/07, listed according to theme and sub-theme.

All projects in this document are being published for information. Contractors and the general public wishing to find out more information on specific projects should write to:

Research Administrator

Transport Technology and Standards Division

Department for Transport

Zone 2/05, Great Minster House

76 Marsham Street

London

SW1P 4DR

Or e-mail tts.research@dft.gsi.gov.uk

It is the Department's policy to make the results of commissioned research publicly available through appropriate dissemination: publications, seminars, conferences and the Internet. Individual projects are monitored at significant stages and at completion, by an internal peer review process and sometimes with external peer review. All programmes or parts of programmes are evaluated at least every five years, to ensure relevance, value and quality of the research.

Further information on transport research can be found on the DfT's web site:

http://www.dft.gov.uk/stellent/groups/dft_science/documents/sectionhomepage/dft_science_page.hcsp

The DfT Research Database (of completed and ongoing projects):

<http://www.rmd.dft.gov.uk>

Choice and Public Transport

Be-in Be-out (BIBO) payment systems for public transport

A desk study to explore the scope of applicability that Be-In-Be-Out systems have to payments and ticketing in the UK market, the degree of overlap with contactless smartcards as ticketing and payment artefacts, and whether existing UK regulations would allow their introduction. To report on the level of interest in the UK, their compatibility with the ITSO national ticketing standard, the level of security and resistance to fraud that BIBO systems possess, and the protection of data and privacy;

Expressions of interest to be received by 22nd September 2006

The use of Near Field Communication technology in mobile phones for public transport ticketing

Initial research into Near Field Communications (NFC) concluded an NFC enabled device could act as a contactless smartcard and 'carry' the public transport ticket in the same way as an ITSO card does today and an NFC device could also act as a terminal either to retail tickets direct to the customer via the GSM/ SMS networks or to validate other smartcard products.

This research will trial NFC enabled phones acting as a carrier of public transport tickets, compliant to the ITSO environment and also as a retail and validator device. The research may involve the development of additional functionality within ITSO which would be demonstrated during the trial. To report on the applicability and commercial benefits of NFC to public transport.

Expressions of interest to be received by 9th October 2006