

Strategic Review of Travel Information
RESEARCH COMPENDIUM

ACCESS ID:

375

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input checked="" type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input checked="" type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

This paper does not provide robust empirical evidences, but opens areas of discussion related to ATIS and travellers' response to travel information. Provides good review and in-depth discussion related to the key question on 'research methods'. Address some of the unanswered questions with respect to the behavioural responses to travel information systems and their effect on changing behaviour.

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

This paper address some of the unanswered questions with respect to the behavioural responses to travel information systems and their effect on changing behaviour under risk and uncertainty in travel times. This paper highlights the importance of format in the presentation of travel information to travellers; travellers' sensitivity to a reference point plays an important role in understanding responses to travel information, and in the design of effective travel information systems that may influence a change in travellers' behaviour in a more effective way. Although based on a route-choice study, these insights are important in relation to modal shift as well.

END

DOCUMENT DETAILS

Compendium ID:	1004	Date of Entry:	2007-03-05
Article title:	The Effect of Reference Point on Stochastic Network Equilibrium		
Article reference details	Avineri, E. (2006), The Effect of Reference Point on Stochastic Network Equilibrium. Transportation Science 40(4), 409-420.		
Web Address:			
Source project (if applicable):			
Contact name:	Erel Avineri		
Affiliation:	Centre for Transport & Society, UWE, Bristol		
E-Mail:	Erel.Avineri@uwe.ac.uk		
Sponsor(s):	FBE, UWE		
Country/Region/City:	General		

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TRAVEL MODE(S)

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KEY INFORMATION

Objectives:	Following studies of human decision making under risk and uncertainty, an extensive evidence of loss aversion and asymmetric risk-taking behaviour around a reference point was found. Prospect theory proposes an alternative framework to the traditional risk-taking modelling in travel behaviour, which might be too simplistic. This paper examines the possibility of applying prospect theory for modelling stochastic network equilibrium, and presents an investigation of the effect of reference point value on such equilibrium. Conceptual and methodological issues that could be addressed by further research in transportation research are suggested.
Description/method:	The author developed a theoretical model of choice behaviour based on empirical findings and descriptive models developed by cognitive psychologists and travel behaviour researchers.
Findings/conclusions:	This paper presents a 'soft' approach to influence travel choices based on travellers' sensitivity to a reference point and to the format of travel information.

Strengths/weaknesses:

This paper address some of the unanswered questions with respect to the behavioural responses to travel information systems and their effect on changing behaviour under risk and uncertainty in travel times. This paper highlights the importance of format in the presentation of travel information to travellers; travellers' sensitivity to a reference point plays an important role in understanding responses to travel information, and in the design of effective travel information systems that may influence a change in travellers' behaviour in a more effective way. The nature of travellers' risk-taking behaviour is ultimately an empirical issue. In this respect, our understanding of travellers' responses to travel information using the suggested set of behavioural assumptions is limited. The effect of shared information and social interactions between the network users, which may be captured by a social learning process, is not studied. Although based on a route-choice study, these insights are important in relation to modal shift as well.

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Findings/conclusions:

The survey suggests that some individuals may be influenced by other people, who are relatively close to them, regarding travel-related decision. These close persons of an individual may have an opinion/expectation which can be important for the individual. The results of simulation experiments suggest that the model is able to provide some informed insights about the spread of compliance with a 'soft' measure from an individual to other individuals and the diffusion from a group to other groups. Social interaction has been shown to have a major role in spreading compliance with the measure. The role of minority influence on eliciting compliance has been demonstrated in the experiments. A small number of influential individuals with consistency of choice on complying with the measure were able to diffuse their choice to others. Also, a group that consists of influential agents was able to diffuse their compliance to other individuals from different groups. The results have also shown that a social club domain with a high opportunity of repeated interactions between its members have an important role on the spread of compliance.

Strengths/weaknesses:

This is one of the only papers that observe the social dimension of travellers' responses to travel information. It provides good review and in-depth discussion related to the key questions on 'research methods' and 'Evolution'; ATIS opportunities in providing real-time social information on the choices made by others are explored beyond the traditional behavioural assumptions on travellers' choices, offering some new insights. Applications of the model into real-world practice still requires further development as the model is relatively simple and the factors involved in the practice would be much more complicated and beyond the scope of this study. There are also interrelationships between the social aspects with other individual aspects, such as personality, attitude, habit, etc; as well as complexity of travel environment that need to be considered in the further development.

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currently chosen or intended option is conditional on the performance of these alternative options and the extent to which the information takes into account information acquisition costs and the costs of adaptation towards these alternative options; 5. The long term effect of giving advice is likely to be limited; 6. Young male drivers with high education and income levels that make a trip that differs from trips normally made in terms of destination, departure time, day of the week (weekday versus weekend) are most likely to use information provided to them and divert to other travel alternatives; 7. In situations where a high variability of conditions exists in parts of the network the traveller is familiar with, information use and effect is likely to be relatively high; 8. The effect of information provision is relatively high during long trips, complex trips, and trips made for an important purpose; 9. Making information services work well under incident conditions is likely to be cost-effective; 10. Providing travellers with information as early as possible is likely to increase its effectiveness in terms of behavioural adaptation. The authors conclude that due to learning dynamics, the long term effects of information provision are likely to be somewhat stronger than the short term effects.

Strengths/weaknesses:

It is very valuable that the empirical literature is presented and discussed using theoretical determinants of the impact of travel information provision.

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Findings/conclusions:

messages, in discussion or through announcements; and poor recall of information previously given. Problems in these fields may also be experienced by non-dyslexics but they likely to be seriously emphasised for dyslexics. Because dyslexic people think with the creative side of their brain, presentation of information in pictorial form, including maps, landmarks and symbols, may be more helpful; the style of verbal information also needs to be reconsidered. Many of the problems have far wider relevance and implications for non-dyslexics, particularly other disabled groups.

Strengths/weaknesses:

The research findings are valuable in pointing to specific problems with use of information in its current form and making some suggestions for improving its effectiveness. They applies primarily to dyslexic people but offers clear lessons for the general provision of information. They focus only on current problems; the work reported did not include any practical tests of alternative forms of provision.

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services when their perceived knowledge is insufficient. The paper then explains the principle of the Extended Model of Goal-directed Behaviour (EMGB), which is premised on the notion that the choice of behaviours is based on utilitarian considerations: i.e. behaviours are assumed to be selected because of their usefulness in achieving a goal. Thus people will differ in their use of travel information in relation to their goals, their anticipated emotions on achieving the goal, and also their subjective norms, attitudes, and past behaviour. The paper also reviews the limitations of the EMGB approach, especially the importance of external factors in influencing observed behaviour. It concludes that, despite these limitations, a social-psychological approach such as the EMGB offers real potential as a basis for future research, especially to understand areas currently not fully assessed, such as people's travel goals, identifying where travel information might have benefits not currently understood and addressing the travel needs of differing groups of people.

Strengths/weaknesses:

The paper makes a valuable case for research methods potentially extending the value and use of travel information. It is however based mostly consideration of theoretical concepts.

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Objectives:

Description/method:

Findings/conclusions:

The paper questions the idea that passengers take decisions on route choice on purely rational grounds; they are influenced by the timetable information supplied by operators but also by their perceived assessment of average waiting time in practice. To understand this, the paper considers the application of concepts based on cumulative prospect theory in explaining passengers' behaviour in relation to information on bus headway and waiting times; it uses a typical scenario for the arrival pattern for two bus routes (over the same corridor) to assess the cumulative weighted value for a passenger choosing between them and hence likely behaviour. It concludes that passengers generally take a risk minimisation approach to choose a bus route based on waiting times. Provision of headway intervals by bus operators may lead to misperception and thus influence travellers' behaviour. Further empirical research is needed to validate these findings.

Strengths/weaknesses:

The paper provides valuable insights into the concepts of cumulative prospect theory as a basis for understanding passenger behaviour and recommending the provision of waiting time rather than headway time information. It includes a laboratory based experiment but is based primarily on consideration of theoretical concepts.

END

DOCUMENT DETAILS

Compendium ID:	1013	Date of Entry:	2007-03-20
Article title:	The role of information in decision-making with regard to travel		
Article reference details	Lyons, G. (2006). The role of information in decision-making with regard to travel. <i>Intelligent Transport Systems</i> , 153 (3), 199-212.		
Web Address:			
Source project (if applicable):			
Contact name:	Professor Glenn Lyons		
Affiliation:	Centre for Transport & Society, UWE, Bristol		
Email:	Glenn.Lyons@uwe.ac.uk		
Sponsor(s):	Paper commissioned by the Foresight Programme, Office of Science & Innovation, Department of Trade & Industry of the Office of Science and Innovation, where we're going', <i>World Transp. Policy Pract.</i> , 1996, 2, (1/2), pp. 24-28		
Country/Region/City:	United Kingdom		

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input checked="" type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input checked="" type="checkbox"/>
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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	To examine the role of information in decision-making with regard to travel, and to consider current developments in the provision of travel information in the information age.
Description/method:	The article starts by briefly examining the role of information in individuals' decisions on transport and the current context for travel information. It then draws on a range of research reports and other published information to examine in some depth several questions: What is the role of information? What types of information services are available? Is information in demand? What information do travellers want? What are the behavioural effects of information use? What are the challenges in providing information? It finishes by considering what the future might hold for travel information provision, considering in turn familiar trips, unfamiliar trips and factors that might govern future demand.

Findings/conclusions:

The article pulls together and considers a substantial amount of information about the provision and use of information and draws out some key issues that face providers. The transport system has grown in size and complexity; trips per person over the last three decades have grown by only 4% but average travel distance has increased by 47%, so that overall travel distance has increased by 53%; but 84% of all trips are under 10 miles. One quarter of all trips are on foot, but overall car use now dominates travel. The article considers the role of information, pointing to the growing interest in mode choice in the UK because of policy interest. It examines types of information provision: degrees of integration (between modes); the balance between journey planning and journey execution; real time provision; and delivery media. It illustrates these with descriptions of some current systems, looking at what information they provide and how: National Rail Enquiries, travelbristol, Traveline, Transport Direct, TfL journey planner, Traffic England. However, despite marketing campaigns, awareness of information services remains low, and often awareness of transport services is low as a result. Surveys show that people use information much more for less familiar journeys, such as a long distance train journey; but for most of their familiar journeys they use information only to confirm knowledge, not to consider alternative modes or routes. Users are interested only in information which they deem important, and this is likely to focus on aspects of planning ahead (e.g. ticket restrictions, travel time and cost) but not on familiar modes. Interest in alternative modes is likely to arise only if the current mode of travel for familiar journeys should change. Thus travel information of itself is very unlikely to change travel behaviour much. Some recommendations are set out for commercial, partnership and technical aspects of information provision. The article concludes that pre-trip information is not really needed for most familiar (local) trips but is for longer (unfamiliar) trips; but in-trip information can help all travel to become more effective.

Strengths/weaknesses:

The article offers a wide ranging review of travel information provision and use in Great Britain and in particular assesses the value of this against key factors in human behaviour.

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Transport route decisions form an example of decisions taken daily in uncertain conditions; their aim is to optimise travel times, but knowledge of this generally comes from feedback from previous choices. The research aimed to gain insights into the basis of such choices. It considered the theoretical implications of the various behavioural models. The patterns of behaviour in the experiment were then measured against these; it was found that they differed substantially from those predicted by the DN-SUE and CPT models but were close to those from the BL and REL models. Thus route-choice behaviour is best captured by the assumption of slow adjustment process to immediate outcomes, rather than the assumption of utility maximization, and this is well captured by the learning models.

Strengths/weaknesses:

The paper provides useful insights into the concepts of the learning modes in terms of understanding route choice and how it is informed by feedback, based on a laboratory based experiment whose outcomes were measured against theoretical concepts. However, it is uncertain whether these findings can be applied to information provision systems in practice.

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

knowledge supplied to them. This was tested through the laboratory experiment, which showed that the propensity of travellers to minimize travel time does not always increase as a result of supplying travel information through e.g. ATIS. Providing static information about expected travel times does increase the heterogeneity of travellers and reduces the maximization rate. Individuals become faster learners, but not necessarily by minimizing travel time. Better understanding of travellers' sensitivity to uncertainty when information is provided may help transportation systems planners.

Strengths/weaknesses:

The paper provides a useful insight into the limitation of static information on route choice informed by feedback, based on a laboratory based experiment.

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Objectives:

Description/method:

Findings/conclusions:

Previous research had shown that drivers usually attribute negative value to higher unreliability, measured by higher variations in travel time. However, some prefer a higher risk option if the outcomes include a high proportion of good (fast) journeys; though experience over time may change their view. The experiment demonstrated a preference for the route with a very wide variation in times but a high chance of low time. Where en-route information was provided, 48% of drivers changed route after a bad experience, i.e. a seriously extended journey time; but without en-route information 72% of drivers changed route after a bad experience. The most unpredictable route had the most negative value. The experiments showed that travellers would rather suffer once in a while from a very bad travel time or every day from a long but stable travel time than from an unpredictable route. If travellers choose a route for which they had been warned for an extremely long travel time by correct travel information, they do not lose faith in the route. However, if they experience an extremely long travel time without being warned for it, they switch significantly more often to another route the day after. On a practical level this means that if information is provided it is important that it is correct.

Strengths/weaknesses:

The research brings further insights to understanding how drivers assess route reliability and choose between routes, and the value of information in such decisions. It was laboratory based and did not consider specific methods of providing information.

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Objectives:

Description/method:

Findings/conclusions:

wider range of travel services to add value.

Strengths/weaknesses:

The results form a valuable indicator of opportunities for increasing provision of telephone information provision, through public information systems and commercial networks. They are set in the context of USA telephone network provision and use.

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The main results indicated that the use of information is low: less than 20% of respondents access pre-trip and less than 30% en-route information. Drivers are more likely to consult pre-trip and en-route traffic information when making longer distance, unfamiliar journeys, often with a time constraint or where there is a perception that problems may be encountered, such as a holiday weekend. The use of real-time information is lower still, with less than 10% of respondents accessing real-time information pre-trip and less than 20% en-route. The most frequently used source of live en-route information is the radio: the 'human' element of radio broadcasts is an important factor in the perceived trustworthiness of information. Drivers see little need to check network conditions prior to departure as there is mistrust as to how accurate the information will be by the time they arrive at the 'trouble spot' on their journey.

The focus groups confirmed the main survey results. They particularly brought out the value of the radio in offering free and up-to-date information which could be taken in without diverting attention from driving, in the background and with a human voice.

The proposed IQS contains four elements: Signature of the Service, a visual indication of purpose, to allow like for like comparison; Characteristics of the Service, the make up of the information provided, its usability, value for the user and the network manager, frequency of update; User Impact, level of current and potential use, extent of influence; Statements, qualitative declarations of purpose, targets, market segment etc. Assessment of the outputs from a range of information services suggested that no major changes need to be made to the methodology, which could be repeated to provide the basis for annual comparison exercises. Annual monitoring was recommended, with a suggested list of Key Performance Indicators (KPIs). The accuracy of information services needs further examination.

Strengths/weaknesses:

The study forms a valuable assessment of the use and effect of information services for car drivers on the national road system. Its proposals for quality assessment and monitoring of services offer useful guidance. The approach and findings could compare well to assessments of information services for public transport, or indeed offer an approach to these.

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Description/method:

Findings/conclusions:

Analysis of the results validated the grouping of aspects into attributes made by the researchers. The attribute which had by far the highest preference (scored 4.8) was Real time information (on planned and dynamic changes). Other attributes with high scores (3.9-3.7) were: Planning options (cheapest route, minimum interchange, mode choice); Tickets (how to buy); Walking route (distance, directions, platform number), Interchange: functional requirements (cash machine, telephone, &c). Attributes which scored lower related to Private transport (parking), Interchange activities (shops, restaurants), Comfort & service en route, Destination facilities. Respondents expressed a high willingness to pay for real time information, if provided as part of a functional Internet based system; they would be willing to pay for additional planning options, ticket information and timetable schedules; but much less willing to pay for information on private transport, interchanges and the final destination.

Strengths/weaknesses:

The research provides valuable insights into what public transport users want from information and the priorities they attribute to various elements, notably real time information. It also indicates the extent to which they might pay for information on the various elements. Being based on a stated preference survey, it does not bring in practical experience of actually offering such services.

END

DOCUMENT DETAILS

Compendium ID:	<input type="text" value="1020"/>	Date of Entry:	<input type="text" value="2007-03-23"/>
Article title:	<input type="text" value="Availability of transport accessibility information for disabled people."/>		
Article reference details	<input type="text" value="Atkins, (2006). Availability of transport accessibility information for disabled people. Scottish Executive - Transport Research Planning Group.47pp"/>		
Web Address:	<input type="text" value="http://www.scotland.gov.uk/Publications/2006/08/22140502/0"/>		
Source project (if applicable):	<input type="text"/>		
Contact name:	<input type="text"/>		
Affiliation:	<input type="text"/>		
EMail:	<input type="text"/>		
Sponsor(s):	<input type="text" value="Scottish Executive"/>		
Country/Region/City:	<input type="text" value="Scotland"/>		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input checked="" type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

To study the availability and ownership of the information required by disabled people when planning a journey using public transport, in order to improve the current level of service and information offered to people with a disability by Transport Direct and Traveline Scotland. In particular to:

- Highlight the critical pre-travel information required by disabled people;
- Identify which organisations own the required accessibility information;
- Recommend the most efficient method of collecting this data;
- Identify gaps in data collection and recommend the best method of surveying interchange points for accessibility information in Scotland;
- Recommend how to maintain and update this data, and add it to existing information systems;
- Prioritise a list of data elements available, in order of ease of collection.

Description/method:

For the purposes of this research, disabled people were categorised into four main groups:

- Physically impaired (including wheelchair users and people who have difficulty walking);
- Visually impaired (blind and partially sighted);
- Hearing impaired (deaf and hard of hearing); and
- People with learning disabilities.

The research involved 3 main phases:

- Phase 1: Identify pre-travel information required by disabled travellers, through review of the literature and through consultation with disability organisations to test the 'essential list' findings of a previous study and to confirm the information most required by disabled people when planning journeys.
- Phase 2: Assess existing information sources, through a questionnaire survey with data owners - bus, ferry and rail operators - based on the defined list of essential information requirements.
- Phase 3: Analyse and identify data collection methods, to assess what data was readily available and what information was missing. Possible methods for the collection of existing and new accessibility data were discussed with some data owners.

Findings/conclusions:

While needs differ slightly among different disability groups, eight categories of pre-travel information were found to be essential for all modes of transport: Staff Assistance (the most important), Physical Accessibility of Stops, Physical Accessibility of Vehicles, Help Facilities, Stop Facilities, Timetable & Service Communication Methods, Lighting, Surfaces. Advance accessibility information is generally good for rail services but very limited for other modes. Some aspects can be found by enquiring, e.g. facilities at ferry and bus terminals, whether low-floor buses operate routes; where available it should be published. Data collection and storage should be managed by one body as data aggregation, with Traveline Scotland recommended. Bus stop data should be stored on the National Public Transport Access Node database (NaPTAN) and bus attributes should be added to TransXChange. It is important to improve the service provided to disabled people by national travel information services as soon as possible, as disabled people have critical pre-travel information requirements regarding the accessibility and facilities available on public transport, and lack of this information in advance may lead to uncertainty and act as a barrier to travel.

Strengths/weaknesses:

The report provides valuable guidance and insights into the pre-trip needs of disabled people, how far current information availability meets these or fails to do so, the current state of provision for disabled travellers on Scottish public transport and the practical priorities for addressing gaps in information. The study had only limited engagement with disabled user groups. It gives little attention to the financial costs or institutional barriers which might be met in addressing problems.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input checked="" type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

The conclusions covered a wide range of factors which form a bridge to modal shift. Among these, in the 'soft' factors, were the inappropriateness of current information (and ticketing) approaches for occasional public transport users. Simpler information which did not require detailed knowledge (e.g. of street names) were needed (in association with more flexible tickets and purchasing). The postal survey, building on assessments from the other survey work, identified information about bus services at bus stops and by telephone or on the internet as a particular barrier. Measures which respondents felt would encourage them to change mode included, for buses, electronic information at bus stops telling if buses are on time, published bus timetables including paper information at bus stops on the scheduled times of buses, and electronic information on buses stating location so that passengers can get off at the right stop. No specific information factors were raised for rail travel.

Strengths/weaknesses:

The study included a range of complementary methods - literature review, modelling, surveys, analysis - and offers valuable insights into the barriers to public transport use, within a clearly defined context. Specific supply of information forms a relatively minor element within its findings. However, these also draw out issues of awareness, or lack of, related to public transport which provide a useful context for considering information needs and issues. The findings did not identify priorities for developing bridges to modal shift.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Poor information to customers is identified as one of the major issues in public transport services. DREAMS aims to provide convenient integrated information via the Internet, offering trip advice using the services of all the operations (conventional transport, community transport, taxis) on the DREAMS management system. The scope for changing mode choice forms the reason for allocating substantial efforts to implement a powerful information tool easy to use and access.

Strengths/weaknesses:

The project is of interest in setting out the rationale and form for a comprehensive management and travel tool pulling together all public and community travel providers in a city. However, the systems is at this stage only in development. No assessment of user needs has apparently taken place, nor has there been any other forms of evaluation.

END

DOCUMENT DETAILS

Compendium ID:	1023	Date of Entry:	2007-04-08
Article title:	Usability Testing and Advanced Traveler Information System Websites		
Article reference details	Kihl, M. (2006), Usability Testing and Advanced Traveler Information System Websites. Transportation Research Board 85th Annual Meeting. Washington		
Web Address:			
Source project (if applicable):	Series Usability Studies of AZ511.com		
Contact name:	Kihl Mary R		
Affiliation:	Arizona State University		
E-Mail:	Mary.Kihl@asu.edu		
Sponsor(s):	Arizona Department of Transportation (ADOT)		
Country/Region/City:	Arizona, US		

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input checked="" type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	this paper reviews and explores usability issues of the evolving AZ511.com travel information website from the perspective of older drivers. In the process described in this work, the website became more responsive to older (and other) drivers.
Description/method:	The project involved two forms of interaction with older drivers: first a series of focus groups and second a set of usability engineering series. 61 drivers over 65 years old were involved in 11 different focus groups conducted in 2003-2004. Usability Studies: Three groups of 5-6 older drivers assessed the evolving travel information website in 3 different sessions. Modifications made to the website during the six month period of these studies. All drivers were given scenarios and told to use the ATIS site for pre-trip planning. At the end of each session all the drivers participated in a group discussion and offered their perspectives on aspects of the site that seemed to work well and aspects that were more challenging.
Findings/conclusions:	1) Since the availability of the ATIS site had not been widely publicized before it was fully operated, none of the focus group participants had been aware of it before the session. 2) Although the focus groups identified interest and potential, the participants could not assist in refining the ATIS site to make it fully usable. 3) Heuristic studies: the presentation and the navigation changed considerably between sessions (navigation difficulties in early session; pleased with the modifications introduced in the later sessions) 4) Heuristic studies: due to problematic interface design, many of the features were 'hidden' and not

obvious to the user 5) older drivers had trouble in identifying objects due to colour contrast 6) older drivers had difficulties in positioning the cursor. 7) none of the older drivers were successful in completing one of the scenarios.

Strengths/weaknesses:

Strengths: 1) the findings help to validate the literature noting problems with visual acuity and fine motor skills associated with age and suggested ways to compensate for these physical changes. 2) It may provide some explanation to the general finding that elderly population tends to use traveller information less often than others (see for example item 1007 in this compendium). 3) The relatively large number of focus group sessions permitted cross-validation and underscoring the areas of interest to older drivers. 4) Although a specific ATIS was explored, many of the findings may be relevant to other travel information systems, sharing similar features or design characteristics.

Weaknesses: 1) None of the focus group participants had been aware of it before the session (see above); thus the study does not capture dynamic aspects of usability in providing the travel information, such as learning, adaptation and habitual behaviour. 2) The focus group participants were shown slides of the initial site design, and were unable to make specific observations about the site. 3) Many relevant usability aspects have not been explored; for example, cognitive aspects such as learning and memorability have not been studied.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

The combination of survey and field study, the relatively high number of participants (more than 100 drivers), and the accuracy/reliability of revealed-preferences data gathered by GPS techniques, all are important aspects that help to estimate travellers' willingness to pay for travel information. However, the choice situation (pre-trip information, freeway drivers, all participants are university staff) may not suit other travel choice and trip planning situations, and the findings cannot be generalised to wider travel choice situations and behavioural responses to them. The combination of GPS data with pre- and after- experiment surveys seem to be a promising experiment design methodology. However, this paper is mainly oriented on the development of research methodology and techniques, rather than systematic exploring the behavioural aspects of travellers' responses (and willingness for pay) to travel information, therefore provide limited (but still useful) insights on this topic.

END

DOCUMENT DETAILS

Compendium ID:	1025	Date of Entry:	2007-03-15
Article title:	How much information do we need?		
Article reference details	Todd, P.M. (2007). How much information do we need? European Journal of Operational Research, 177, 1317-1332		
Web Address:			
Source project (if applicable):			
Contact name:	Peter Todd		
Affiliation:	Max Planck Institute for Human Development		
Email:	ptodd@mpib-berlin.mpg.de		
Sponsor(s):			
Country/Region/City:	Berlin but article coverage is international		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This is a review paper. Its purpose it to present and discuss a number of forms of heuristics for decision making (not specifically related to travel decisions). In essence it take the starting point of the traditional view of rational decision making "where individuals should evaluate and combine all available evidence" and where "more information will yield better decisions". It then looks, in contrast, at the concept of bounded rationality which considers how people can "make reasonable decisions given the constraints that they face such as limited time, limited information, and limited computational abilities".
Description/method:	This is a review paper (which includes coverage of many articles also produced by its author). It considers different classes of simple heuristics and provides examples to illustrate the contexts in which such heuristics might apply. It also provides some empirical experimental evidence which allows such heuristics to be compared in terms of their efficacy in decision making.
Findings/conclusions:	Importantly, the paper overall highlights that 'short cut' decision making heuristics that require less information can prove to be of comparable effectiveness when considered alongside an 'unbounded rationality' approach. Two schools of thought are considered - bounded rationality applies in practice because people are 'constrained' and this results in sub-optimal decision making - this school of thought argues that "we would, and should, all be unboundedly rational, if only we could". The second school of thought which is receiving increasing attention is that "people can and often do make good decisions with

simple rules or heuristics that use little information and process it in quick ways". If the second school of thought holds true then trying to provide people with more and more information may not be appropriate. Our decision making faces two real world constraints - (i) we never face the same situation in its exact form more than once and thus we look to generalise well from past experiences when judging new ones; (ii) there is a 'cost' to the effort of decision making itself so our decision mechanisms must be quick. The recognition heuristic is discussed - this says "that for choosing between two objects on some criterion, when one object is recognised and the other is not, then pick the recognised one". This may have particular relevance for mode choice whether the familiarity of the car may count against public transport. Intriguingly in some domains, "less knowledge can yield more accurate decisions when using the recognition heuristic". The paper highlights that our recognition heuristic can be manipulated (e.g. through advertising) so in some domains it may not be something we can rely upon. The paper refers to mechanisms akin to recognition which concern social learning - i.e. copying the most prevalent behaviour. 'One reason' decision heuristics is a means by which one factor for two available choices is used to make the decision - if two choices have the same factor value then the next factor or cue is used and so on until a decision is reached. The paper looks at other similar heuristics. A study which compared such heuristics against two alternative strategies which weigh and combine all of the available cues is reported to have found that the latter were broadly matched in performance to the former.

Strengths/weaknesses:

As a review paper, the article provides an illuminating overview of decision making and may go some way to suggesting why travel information services are not necessarily used as much as expected and also points to considerations for information service content and design which could make services simpler and more usable for users.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

professionals, and people on a high income are also more likely to use ATIS than others. There is a lack of empirical literature about the effects of ATIS on travel choices.

Strengths/weaknesses:

This paper provides a good review of both theoretical and empirical literature concerning the use of travel information and its behavioural effects. However, no distinction is made between travel information sources (such as telephone and online services) in the empirical review of who uses ATIS and their effects on travel choices.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

the survey finds that with the exception of TV traffic reports and radio traffic reports, "a majority of the population is still unfamiliar with many of the Seattle region's ATIS offerings". Further to those, only a minority of those saying they are aware of a service have ever used it. Previous research by the authors found that "rates of information acquisition [of information] were markedly higher for: trips of very long distance and/or duration, trips that took place during the morning or afternoon peak periods, and trips whose purpose was arrive-time sensitive". The wave 10 data show a strong correlation between journey duration and a likelihood of consulting some form of travel information (this said, "the diary data show that 41 percent of all the recorded trips took 10 minutes or less, and 70 percent of all trips took 20 minutes or less". Consulting information is more likely for trips in the peak periods: "travelers consulted an information source on 19 percent of their trips that started during the morning peak (6-9am) versus 11 percent for the evening peak (4-7pm) and 10 percent overall. Information is more likely to be consulted for commute trips than for trips in general. In terms of information quality, for those trips where information was consulted, "36 percent of the time the traveler was unable to obtain any information at all about the trip in question." The authors suggest their findings "paint a picture of insufficient quality of travel information, where information is often unavailable, or is insufficiently specific, or is judged to be insufficiently accurate." In terms of presence of delays and delay information, the data revealed that on 53 percent of occasions where information had been consulted there were no delays on the travelers' route. Where there were minor delays people tended not to change their travel. Even where people were consulting information, found delays which they considered serious enough to warrant a change, more than half of the time no change was made with the respondent reporting that they "had no alternative". The authors' concluding point is to emphasise the issue of selectivity for ATIS use - "ATIS is currently something of a niche market, very valuable for certain trips but less useful for the sorts of trips that make up the bulk of daily travel".

Strengths/weaknesses:

The paper provides some useful confirmatory data about the low levels of information use. It is, however, fairly high level in its analysis with little insight into the sorts of information being consulted and the sorts of behaviour change that might occur. No specific mention is made about the modes of travel used for the recorded trips but it appears that the paper is essentially referring to driver information.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input checked="" type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input checked="" type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input checked="" type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

In the specific context of this review, this report (a review in itself) does not tend to offer specific new insights or new empirical evidence though it remains useful as a background document.

END

DOCUMENT DETAILS

Compendium ID:	1029	Date of Entry:	2007-03-22
Article title:	Synthesis of customer needs from rural traveler information surveys		
Article reference details	Strong, C., Eidswick, J. and Cuelho, E. (2006). Synthesis of customer needs from rural traveler information surveys. TRB 2006 Annual Meeting CD-ROM.		
Web Address:			
Source project (if applicable):			
Contact name:	Christopher Strong		
Affiliation:	Western Transportation Institute-Montana State Uni		
EMail:	ChrisS@coe.montana.edu		
Sponsor(s):			
Country/Region/City:	Western United States		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	The paper aims to review six evaluations using travel surveys of rural travel information provision (all carried out by the authors' institution. The results are presented to address to questions - "How do rural travellers receive information (types of information, sources, and perceptions of accuracy and usefulness)?" and "How do rural travellers use the information they receive?"
Description/method:	The paper covers six 'case studies' all involving surveys of highway users (principally motorists) - some relate to a system evaluation and some to a site evaluation.
Findings/conclusions:	By way of introduction the authors note that "surveys of usage of 511, the telephone number designated for traveler information in the United States, show that usage peaks sharply in winter months, when weather challenges are most significant, as opposed to summer months, when traffic volumes are higher". This suggests people are concerned about unpredictable conditions most of all - and for regular routine/local journeys, the experience can still be rendered unpredictable by the weather conditions. Indeed the case studies considered all concern themselves with sites or systems where weather and/or awkward road infrastructure are the motivations for the information provision it seems. It is therefore not surprising that the authors discover from their review that " Overall the results indicated that road and weather condition information was most important, followed by construction information." Surveys asked what information resources people normally used and broadcast media (television and commercial radio) were the dominant methods

used for road and weather conditions information. All technologies were found to receive favourable ratings for accuracy and usefulness with a slight indication of usefulness being rated more highly than accuracy (which it is suggested may be related to many users being local and thus familiar with the service). The authors do also note that "it is important to note that these accuracy and usefulness ratings are for technologies which generally supplement existing roadway information features". The paper notes that "none of the surveys studied sought to link the perceived value of the traveler information provided with the associated cost."

Strengths/weaknesses:

The paper is a straightforward summary of six case studies. Its findings are governed very much by the nature of these case studies and thus the importance of weather and roadworks information is not surprising. The paper offers a rather limited level of detail but one or two interesting interpretations.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

- | | | | |
|------------------------|-------------------------------------|------------------|--------------------------|
| Awareness | <input type="checkbox"/> | Providers | <input type="checkbox"/> |
| Demand, access and use | <input type="checkbox"/> | Media | <input type="checkbox"/> |
| Context | <input type="checkbox"/> | Evolution | <input type="checkbox"/> |
| Content | <input type="checkbox"/> | Research methods | <input type="checkbox"/> |
| Behaviour | <input checked="" type="checkbox"/> | Other | <input type="checkbox"/> |
| Delivery | <input type="checkbox"/> | | |

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

The results find that the ATIS commuter "exhibits statistically significant travel time savings for departures during the morning and evening peak periods". However, "the average time savings never rises above one minute". The authors concluded that "Although the analysis demonstrated statistically significant differences in travel time for the ATIS user, the question of practical significance is not as conclusive. Average savings of one minute or less may not be enough to entice a commuter to use the service."

Strengths/weaknesses:

The paper represents a simple experiment. However, there is little or no discussion of the robustness or generalisability of its results. The outcome seems surely related to the predictive accuracy of the journey time algorithm and if this were to change then the average savings to the ATIS user would change.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input checked="" type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

research tool when it is established that observed choices made within TSL* resemble our intuitions concerning what kind of choices would be made in real life under comparable conditions."

Findings/conclusions:

The paper proceeds to set out a number of formulated 'intuitions' which are then tested for validity by analysis of data collected from participants. The paper concludes that the simulation "appears to have a very acceptable level of face validity."

Strengths/weaknesses:

The simulation tool itself appears very interesting although the purpose of the paper is not to present analysis of its use as such. The paper inevitably wrestles with the fundamentally difficult question - can we really use such a simulation to test out possible future ATIS and understand how users will respond. The paper confronts this issue well and openly although each reader will take their own view on whether it is sufficiently realistic as a tool to be widely used in the way envisaged.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

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Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input checked="" type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

transferability of results between sites. The review goes on to consider a series of stated preference studies and the use of driving simulators with the latter being more representative or real behaviour but expensive. The aim of such studies has pointed towards the development of driver behaviour rules for VMS being included in traffic network models. However, as the authors note: "It is clear that if a traffic assignment model is to provide an effective method of studying VMS impacts then it is essential that the driver response logic which reflects true driver behaviour is included internally within the model". The stated response survey found that 18% of drivers "said they would divert immediately in response to unexpected congestion." Analysis and statistical models were developed from the results. The observed response survey found that only 33% (63) of drivers saw the VMS displaying the immediate warning information. Only two of the drivers who saw the VMS said they diverted from the route. The authors conclude that along with evidence from other studies, their own results reveal that "out-turn behaviour is more conservative than the stated intentions" and they conclude that "models based on stated-intention questionnaires were not as successful as we would have wished". Ironically when the same models were tested on travel diary survey results for VMS in Southampton they were found to be a better predictor of individual behaviour than in London.

Strengths/weaknesses:

Although the study included a low response rate for the stated response survey (12.3%) it seems to have been conducted systematically and thoroughly and the paper reports well the methodological process, assumptions and challenges. Nevertheless, the general message from the paper seems to be that it remains methodologically very challenging to properly understand (and in turn predict) the behaviour of drivers in response to VMS. Further, it has revealed the low level of 'awareness' of the signs or at least the messages being displayed - i.e. most drivers did not even remember seeing the sign, let alone processing its information.

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DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

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RESEARCH AREAS COVERED

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Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

as a lack of trust in the information provided. Not only financial cost and journey duration might affect modal choice, but also information related to convenience and comfort. This indicates that habitual and psychological barriers to non-car modes might be overcome. The majority of the participants would be likely to consult IMTI when the decision to consider a modal choice had been made. The authors conclude that the likely demand for IMTI is uncertain, and that the information used may not necessarily promote a modal shift towards public transport.

Strengths/weaknesses:

Confronting participants with various information options might lead to the socially desirable answer that they would indeed use the information if it would be available to them. The authors recognize the limitations concerning the repeated exposure of participants to information. Despite the carefully varied composition of the focus groups, the authors reflect relatively little on any differences that occurred between those groups. Nevertheless, this study clearly shows how habitual people are likely to be in their modal choice.

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Compendium ID: Date of Entry:

Article title:

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Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
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Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

Some aspects are not explored: the dynamic characteristics of travel choice behaviour and use of information (learning, habits); exploring long-distance and inter-city travel behaviour; taxi-drivers' travel behaviour may not reflect many dimensions of travel behaviour by non-taxi drivers; the format in which accident information is presented may have effect on the route choice. A natural extension of many of the ideas discussed in this paper could be to integrate local accident information into travel information systems (web-based, in-car)

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DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

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Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

END

DOCUMENT DETAILS

Compendium ID: 1036A Date of Entry: 2007-06-04

Article title: MR07 Incorporating cost, reliability, and other travel factors into journey planning. Report stage one.

Article reference details: SRA (2004). MR07 Incorporating cost, reliability, and other travel factors into journey planning. Report stage one. Social Research Associates. Department for Transport.

Web Address: <http://www.transportdirect.gov.uk/research/pdf/mr07-1.pdf>

Source project (if applicable):

Contact name:

Affiliation: Social Research Associates

E-Mail: office@sraltd.co.uk

Sponsor(s): Department for Transport

Country/Region/City: UK

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives: This report represents the first stage of a research about travel planning choice processes. Its objective is to develop a logical representation of travel factors and decision rules reflective of travel choices and applicable to a journey planner service.

Description/method: Eight decision models that vary in how rational they presume individuals to behave are described and their strengths and weaknesses are discussed. In the appendix, an overview of factors influencing travel choice is provided.

Findings/conclusions: Discrete choice theory is recognized as being useful in clarifying decision-making, but other perspectives need to be considered as well. Rational models and discrete choice theory represent the most rational models of decision-making. Four other decision models (labelled 'problem solving', 'mixed scanning', 'steering', and 'assumptive worlds') have a mixed level of rationality, whereas two other decision models ('incrementalism' and 'cognitive dissonance') have a low level of rationality. The challenge for Transport Direct is to enable interrogation by travellers, each adhering to a choice process that best matches one of the eight models.

Strengths/weaknesses: This report provides a succinct overview of various decision-making theories.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

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Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
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Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

One thirds of the respondents chose Systematic Search ("I juggled several considerations before deciding how to travel") when they were asked about how they had planned a recent journey. Overall, there are no significant differences between type of decision model and sociodemographic characteristics. More than half (58%) of the respondents considered more than one modal option when planning a journey. The information needed to make their choices were mainly journey times, route details, and cost. Online travel information was the most common source of information. More than a quarter of the respondents has an Active choice model. 73 out of 406 respondents had used more than one choice style. The authors conclude that in the sample most people made conscious efforts to plan their journeys. Although many respondents were willing to consider alternative modes, they often ended up deciding that convenience and practical reasons outweighed time and cost. Car users were more likely to resort to alternative routes than journey time changes to avoid congestion. Public transport users were largely unaware of the opportunities for changing routes or journey times to improve journey options. Even when trips were planned a long time ahead, people tended to keep on checking that things had not changed, which has implications for registering for feedback and updates). There is considerable demand for information about what to do when things go wrong during journeys.

Strengths/weaknesses:

This report pays attention to the way people make travel decisions. The distinction between Active, Passive, and Constrained choice styles seems arbitrary and is not well defined. Also, using only one proposition to represent a certain decision-making strategy questions the validity of the results. Moreover, the authors provide little interpretation of their findings.

END

DOCUMENT DETAILS

Compendium ID:	1036C	Date of Entry:	2007-06-04
Article title:	Transport Direct Market Research Stage 3 Validation		
Article reference details	SRA (2005). Transport Direct Market Research Stage 3 Validation. Social Research Associates . Department for Transport.		
Web Address:	http://www.transportdirect.gov.uk/research/pdf/mr07-3.pdf		
Source project (if applicable):			
Contact name:			
Affiliation:	Social Research Associates		
Email:	office@sraltd.co.uk		
Sponsor(s):	Department for Transport		
Country/Region/City:	UK		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
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Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This report represents the final stage of a research about travel planning choice processes. Its objective is to validate the results that have been obtained in the second part of the research where people were interviewed about their choice styles.
Description/method:	Throughout Great Britain, 150 people were interviewed. Interviewees were asked to describe two journeys: the first being a journey they had recently made and the second a journey they were planning to make in the near future (in both cases within about two months). It was specified that the journeys should be non-local, in the UK, and of at least 50 miles or more. The interview started with the journey already made and then went on to the second planned journey. In both cases details of origin, destination, purpose, mode, and travel party was recorded resulting in details of 300 journeys overall. The sample is evenly distributed across gender and has a broad age range. Nearly two thirds (64%) of the respondents usually travels by car. Three quarters of the sample has Internet access at home. Two thirds of all journeys were conducted for leisure or shopping and a quarter for work purposes. The main journey mode was by car (63%), followed by train (27%). The majority of the respondents (62%) was travelling with others.

Findings/conclusions:

The report found evidence that when planning a journey, decision-making behaviour is influenced by past experience and that the way in which information is taken into account does not follow any set pattern. Also, it seems that people break down their travel choices into manageable tasks and in order to do this they typically first set their main travel mode (e.g., car, train). The majority (90%) of respondents started with a mode choice (64% only one mode, 26% more than one mode). One fifth of the sample had more than one choice style. The Constrained choice style was most often represented in recent journeys, whereas the Active choice style was most often apparent in future journeys. Only 5% of the sample had a Passive choice style (for either recently made or future journeys). The most common types of information sought were: arrival/departure times, total journey time, and routes. Finding information via the Internet was most popular, followed by checking printed material, and ringing an enquiries line. Cross tabulations of choice style by sociodemographic characteristics did not reveal any differences.

Strengths/weaknesses:

This research seems to stand on its own, rather than being a validation of earlier research. Nevertheless, it contains interesting findings.

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DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

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Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

influenced by awareness, with a complementary relationship between television, radio, and telephone. The authors conclude that changes in the social and demographic situations of households have significant effects on awareness about ATIS on the Internet. The potential for change in awareness about other media is less clear.

Strengths/weaknesses:

This paper presents empirical data over time concerning ICT-use and awareness of travel information and frequency of information use. However, since the findings reported in this paper are based on panel data from 1997 to 2000, the figures regarding ICT-use are probably not accurate any longer. Also, the situation concerning awareness and use of travel information might have changed.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

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RESEARCH AREAS COVERED

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Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

This report gives a good description of the actual use of travel information. However, a more careful interpretation of the results is needed, given the methodology that has been used. The authors' conclusion that Traveline Scotland contributes to a modal shift is not clearly supported, since it is based on a very small number of respondents (less than 60; one comparison only involved around 30 respondents). Moreover, the before and after measurement does not contain the same number of respondents, which raises questions about the mode choice of the rest of the respondents.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

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Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

The overall aim of this PhD thesis is to provide insight into the role of travel information in recreational trips, particularly related to mode and destination choice, and to investigate the implications for transport policy. Four research questions are distinguished: 1A. Which combination of decision-making theories most adequately describes the decision-making process underlying recreational mode and destination choice? 1B. Which aspects can be identified that describe the role of travel information in this process? 2. What are the key external factors that affect the decision-making process for mode and destination choice, and how do they affect the role of travel information? 3. What is the actual information search behaviour, which information is used in the mode and destination choice and what is the impact on travel behaviour? 4. What are the implications of the role of travel information on the individual level for the actual deployment of travel information as a policy instrument?

Description/method:

Trips to theme parks are studied. From June to August 2004 an online survey was advertised on various well-known Dutch websites, including travel information sites and theme park sites, as well as non-related web sites. Respondents were also approached via an email list. In total, 1794 respondents filled out the survey. Additionally, six in-depth interviews with key figures in the transport policy environment were conducted in February 2006.

Findings/conclusions:

The results show that 69% of the respondents used the car to travel to theme parks versus 22% that used public transport. Two-third of the sample used information related to the destination (e.g., entrance fee, attractions in the park), while half of the sample searched for information on their preferred or selected transport mode. Respondents who considered a mode alternative (16%) or a destination alternative (15%) for their theme park visit had a higher need for travel information compared to those without an alternative. Travellers who have previously visited a theme park or who visit theme parks frequently use less destination-related information. However, these experienced travellers have similar information needs for mode choice compared with inexperienced travellers. Habitual mode choice does limit the chance that an alternative transport mode is considered; however, the use of travel information is not affected by habitual mode choice. Also, habitual public transport users use more travel information than travellers without a habitual transport mode. In general, public transport users use more travel information than car travellers.

Strengths/weaknesses:

This thesis focuses on recreational trips, which comprise only a specific minority of daily travel. Nevertheless, it provides a valuable insight into the role of travel information in the decision-making process concerning mode and destination, supported by empirical data on the effect of travel information on such choices.

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DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

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RESEARCH AREAS COVERED

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

The results show that across the two regions the sociodemographic profile of users of online traffic information is similar: male, between 26 and 45 years old, highly educated, on a high income, and frequent ICT users. Also, the most frequent users are those exposed to the greatest amount of congestion and volatility in traffic conditions. Online traffic information is primarily used for commute trips and to a lesser degree for trips to the airport, vacation, or weekend trips. Usage patterns are similar across both regions, with greater use of online traffic information for the afternoon commute compared to the morning commute. Residents of Los Angeles are less satisfied with their online traffic information compared to the residents of Seattle. The authors speculate that this might be due to the greater congestion and longer commutes in Los Angeles. Also, the Seattle traffic website is more frequently updated than the Los Angeles one. In both regions, respondents indicated they would value enhancements in the basic quality of online traffic information, such as increased coverage of arterials, filling in the gaps in coverage, more precise incident information, and the posing of speed data.

Strengths/weaknesses:

The merits of this study are that a comparison has been made of actual behaviour of users of various traffic websites, including not only sociodemographics, but also attitudes and geographical location. However, an important drawback is that only descriptive methods of analysis have been used. Therefore, it is not clear what the relative importance is of the factors studied for the explanation of online traffic information use.

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DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

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Web Address:

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

|travellers may be seeking "peace of mind" benefits. |

Strengths/weaknesses:

|This paper provides useful empirical data on travel information use. |

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Compendium ID: Date of Entry:

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

when evaluating the travel time reliability of the travel alternatives themselves. This paradox means that travel information services in general will have a hard time fulfilling traveller's needs for reliable travel time estimates. However, incidental congestion or delays and trips to new destinations form an exception to this paradox. Notable differences between the knowledge levels of car drivers and public transport users were found, depending on trip circumstances and characteristics.

Strengths/weaknesses:

The methods that have been used to recruit participants have lead to a biased sample towards highly educated and young people. Moreover, the examples of the operationalisations that have been given of the behavioural construct tend to be very general, making them difficult to answer. Therefore, the results must be carefully interpreted. Nevertheless, the paper reports interesting findings about a potential travel information paradox that might be of importance to travel information service providers.

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DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

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Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Maximizing and satisficing behaviour can both be represented by the concept of the minimization of expected regret. The perceived value of travel information is defined as the perceived potential of the information to reduce the expected regret that is induced in a choice situation. The numerical examples show that information about unknown travel alternatives becomes less valuable as the expected values of the alternatives become less attractive in the eyes of the traveller. A maximizer will accept higher 'costs' in order to reduce the number of unknown alternatives than a satisficer, who will only do so when the known alternatives are perceived as being unsatisfactory. Increasing knowledge (or a decreasing volatility in the transport network) leads to decreasing information value. The value of information also decreases once the traveller believes that the information is unreliable.

Strengths/weaknesses:

This paper makes a valuable contribution to the definition of perceived information value and to the modelling of its determinants.

END

DOCUMENT DETAILS

Compendium ID:	1045	Date of Entry:	2007-04-03
Article title:	Mobile phones as traffic probes: practices, prospects and issues.		
Article reference details	Rose, G. (2006) Mobile phones as traffic probes: practices, prospects and issues. Transport Reviews, 26, 275-91.		
Web Address:			
Source project (if applicable):			
Contact name:	Geoff Rose		
Affiliation:	Institute of Transport Studies, Monash University		
EMail:	geoff.rose@eng.monash.edu.au		
Sponsor(s):			
Country/Region/City:	Australia, international coverage of research		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This paper examines the emerging opportunities to collect network-wide traffic information using mobile phones as traffic probes. Its objectives are: 1. to examine technologies for the collection of real-time traffic information to develop an appreciation of the relative pros and cons of mobile phones as a source of dynamic traffic information compared with alternatives; 2. to identify the approaches available for collecting traffic information from mobile phones and the type of information that can be obtained; 3. to review the state of practice in relation to the use of mobile phones as traffic probes; 4. to identify unresolved issues that may have implications for the prospects of obtaining real-time traffic information using mobile phones as probes.
Description/method:	The paper reviews the state of practice regarding the use of mobile phones as traffic probes. It also details issues about the required technological developments.
Findings/conclusions:	Using mobile phones for probe vehicle-based collection of real-time traffic information has potential applications in incident detection, traffic management, the provision of information to influence travel decisions, and for longer-term performance monitoring of the road network.
Strengths/weaknesses:	This paper clearly outlines the potential of using mobile phones for real time traffic information and related issues of concern.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

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RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

When information about the risks, costs, and enjoyment of automobile use was made available, it affected a person's attitude toward life using an automobile. This information also influenced whether respondents possessed a driving license 18 months after the experiment. The results indicated that the experimental groups who received information about automobile use with respect to risk, cost, and/or stress due to congestion for 3 or 5 min had relatively less enthusiasm toward life using an automobile than the control group. The results also showed that fewer participants in the experimental group had a driving license than in the control group. These results support our hypothesis and indicate that the information provided had a negative effect on an individual's need to obtain a driving license and his/her attitude, even 18 months after participating in the study. Although studies looking at a larger sample are necessary to reach a final conclusion, the results imply that young non-drivers were not fully aware of the negative aspects of automobile use and providing such information to them may change their travel behaviour. This could help reduce total lifetime CO2 emission of an individual, because the decision to obtain a driving license will have substantial effects on the travel behaviour for the rest of his/her life.

Strengths/weaknesses:

Demonstrated a very strong effect of travel information on attitudes and behaviour. Although does not address travel information usually provided by travel information systems - commonly information about a specific journey; recent ATIS (such as Transport Direct) are addressing more general knowledge/awareness to externalities such as environmental aspects. Sample size is small. Findings may not be completely relevant to UK due to cultural differences between Japan and the UK.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input checked="" type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

The results confirm that the thresholds for changing drivers' behaviour should be substantially larger than the ones for choosing the best routes. Drivers had a higher tendency of staying away from either their best or habitual routes in the beginning of their journey, indicating a better time to provide real time traffic information is the beginning of their journey. Nevertheless, due to inertia effects, drivers were adherent to their habitual routes in the end of their journey.

Strengths/weaknesses:

The paper mainly focus on the developed models and does not discuss the general validation of travellers' responses to travel information, therefore provides limited insight to our understanding of the effect of information provision on route choice behaviour. The face-to-face study of drivers stated preferences to simplistic situations is problematic. For example, it may be argued that dynamic mechanisms of travel choice behaviour, such as learning, adaptation and habitual behaviour, cannot be fully captured by this over-simplistic experimental design. The showcards used in the experiment represented a very limited set of sequential choices (4 switching points between freeways), not providing participants to acquire information and explore the features of the travel information provided, neither provided a realistic choice scenario (choices were not repeated to represent commuting). The context of the choice situation (switching between two freeways) may not suit other travel choice and trip planning situations, and the findings cannot be generalised to wider travel choice situations and behavioural responses to them.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
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Context	<input type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

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Context	<input type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input checked="" type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

The main findings from the four projects were as follows.

- MR01 End-legs and interchanges. Information on end-legs and interchanges is 'nice to have' for some people, but only a minority. Hence it is not urgent to prioritise such information. But information concerning end-legs and interchanges can be important or essential in planning and undertaking journeys for those with permanent or temporary mobility impairments. Many useful items of information could be termed 'basic' (e.g. telephone numbers) but may be difficult for providers to deliver.
- MR02 Travelling by car. Car users are particularly interested in real-time information on congestion, with suggestions for alternative routes. This may highlight negative aspects of car use and so provide a more level playing field for making travel choices by providing information on alternatives. A significant minority of car users express interest in considering alternative modes if comparative information is available, especially for longer distance journeys.
- MR03 Booking and payment. People still prefer to book and pay for tickets using the telephone – seen as easily accessible and without queues - or in person from staffed counters – which provide reassurance in a correct transaction and guidance on choice. Booking via the Internet is less attractive for users though efficient for providers. So booking systems on the Internet should seek to copy the positive features of telephone and counter services.
- Real-time information, mobile phones and text messaging. The public rate real-time information highly and are prepared to pay for it, provided that it includes advice or information on possible courses of action to mitigate journey disruption. Mobile phones and text messaging are seen as important means of informing travellers during their journey. Mobile phones are also seen as attractive means of pre-trip access to real-time information and journey updates, along with television. But different groups of people take different views to use of mobile phones; information might therefore best be available on request.
- MR04 Positioning Products in the Information Market Place. Among providers, longer distance journeys were seen as more appropriate for comprehensive travel information; short journeys are familiar to most local people already using bus, while strangers are likely to use taxis. While they value the achievement of more seamless travel, they question the value of comprehensive information for local public transport. Having a Web site for e.g. local bus services may make providers more accessible to the public but it is difficult to ascertain the actual impact on the business, compared to the time and cost to establish a full set of information. Among users, over 30% do not consult telephone or Internet-based information sources. But more than a quarter of people decide on their mode of travel for an unfamiliar long distance (over 5 miles) journey after consulting one or more travel information sources, and 13% do so for an unfamiliar short distance journey. Almost seven in ten people who use telephone or Internet information services would prefer to be able to consult a (one-stop-shop) multi-modal information service; even though there is still an overwhelming 'brand loyalty' for mode-specific information sources.

Overall the projects Transport Direct was broadly welcomed as a positive initiative. But there were also concerns that Transport Direct might set high expectations but be unable to deliver and thus harm public confidence. They also showed that providers might not have a business case for offering information formats which could be attractive and lead to modal change. This indicated an important role for Transport Direct in focusing and promoting best practice and research findings.

Strengths/weaknesses:

In pulling together the results of four research projects addressing users' needs and aspects of provision, the report offers a cohesive view of the scope for a comprehensive IT based travel information service and some of the steps needed to achieve it in practice.

END

DOCUMENT DETAILS

Compendium ID:	1051	Date of Entry:	2007-03-30
Article title:	Transport Direct - Mr04: Phase 1 Report		
Article reference details	McGarry, T. (2002) Transport Direct - Mr04: Phase 1 Report. Accent Marketing & Research		
Web Address:	http://www.dft.gov.uk/transportdirect/research/futuredevelopment		
Source project (if applicable):			
Contact name:	Teresa McGarry		
Affiliation:	Accent Marketing & Research		
E-Mail:	teresa.mcgarry@accent-mr.com		
Sponsor(s):	Department for Transport: Transport Direct		
Country/Region/City:			

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input checked="" type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	To carry out a series of interviews with service providers of mode specific journey planners for air, rail, coach, bus, car, cycling, ferries and taxis, as part of research aimed to develop greater insight into the positioning of the various information services within the UK travel information marketplace.
Description/method:	30 in-depth interviews were undertaken with senior staff in information service providers who had responsibility for promotion and marketing their company and hence were responsible for the content of their company's web site. Most were in public transport companies and agencies. The sample was recruited by telephone using a specialist recruiter. Respondents were offered the option of being interviewed either by telephone or face-to-face in their own offices. Seven respondents requested a face-to-face interview; the rest were conducted by telephone.
Findings/conclusions:	All providers consider both the web and the telephone important for providing information. But traditional paper based media - timetables, posters, information boards, local newspapers – remain important, as part of a comprehensive provision of information. Having a web presence is essential, to put products firmly in the marketplace and brand their company; it also offers a two-way communication process with members of the public. But identifying the impact on the business is difficult. The journey planner is considered the best aspect of a website; also important are concise information provision, the ability to locate timetabling information easily, and the speed of information retrieval.

Web sites should be easy to access and use, and provide for on-line ticket purchase as well. Providers regularly monitor and update their web sites, and also study others' web sites. Most link their sites to others which offer a complementary service. In principle they support the Transport Direct approach of seamless information; some believe that Transport Direct may provide a unique and valuable service. However, they also view Transport Direct as possibly ambitious, and question how its funding may be maintained. There are concerns that a national system may place unwelcome demands on individual providers, conflict with providers' own services, or fail to achieve sufficient awareness among the public.

Strengths/weaknesses:

The project provides a valuable and well based review of service providers' approach and views to web based information as part of their total business and to their thoughts on service priorities and a national system. It pre-dates the actual development of Transport Direct. It offers a useful basis for understanding the issues facing Transport Direct in relation to service providers. It reflects purely the views of providers.

END

DOCUMENT DETAILS

Compendium ID:	1052	Date of Entry:	2007-03-30
Article title:	Transport Direct: Phase 2: Public Consultation - Final Report		
Article reference details	McGarry, T (2002) Transport Direct: Phase 2: Public Consultation - Final Report. Accent Marketing & Research		
Web Address:	http://www.dft.gov.uk/transportdirect/research/futuredevelopment		
Source project (if applicable):			
Contact name:	Teresa McGarry		
Affiliation:	Accent Marketing & Research		
E-Mail:	teresa.mcgarry@accent-mr.com		
Sponsor(s):	Department for Transport: Transport Direct		
Country/Region/City:	United Kingdom		

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	To ascertain the reasons why people use, or do not use, travel information services and also gain their views on Transport Direct.
Description/method:	To establish a general population sample of respondents throughout England, Scotland and Wales, a survey population was selected according to pre-agreed quotas in terms of age, gender, access to the internet, information use, ethnicity and rural/urban. The final data sets were weighted to known age and sex population estimates for England, Scotland and Wales using the mid-2000 population estimates supplied by the Office for National Statistics (ONS). A pilot telephone survey was carried out with 30 interviewees and used to finalise the structure for the computer assisted telephone interviews (CATI). 1200 interviews were then carried out. All criteria were readily met, except some problems were met in securing a valid balance of age groups. The resultant survey population was considered to be considered a nationally representative sample.

Findings/conclusions:

Car use among interviewees was very high (84% having access to a car all of the time); public transport use lower (three quarters using a train or bus less than once a month). Three quarters of respondents have access to the internet, mostly at home; one fifth of others were considering acquiring it. Two thirds use telephone or internet travel information.

The main reason for not consulting a telephone or internet based information source is simply lack of need to (41%). Guaranteed accuracy of information would encourage use; especially for planning a journey, checking the cost for a journey and checking the time to complete the journey. 63% of non-users would like notification of travel restrictions on a system and 58% the ability to buy a ticket.

For users of telephone and internet based services, the most important other information source is a map. Services are more likely to be used for leisure journeys (72%) rather than business (29%) or commuting (21%) journeys. For leisure journeys users look for possible travel times (42%), the cost of the journey (29%) and information on other routes (22%). For commuting and business journeys users look for possible travel times (62% and 41%), length of journey (19% and 20%) and delays (15% and 17%). Notification of travel restrictions ability to plan the journey are vital (87% and 80%). Accuracy of information and cost are important facets of a service. The mode of travel is decided before referring to a travel information source by 62% on a short journey, seven in ten on a long journey; usually assuming use of the car. But almost seven in ten would consult a multi-modal information source for an unfamiliar destination; largely to make comparisons across modes e.g. to find the cheapest or quickest mode. Local travel information services are considered to offer better local information whereas a national travel information service is considered to offer more comprehensive information. The modes of travel for which telephone based information services are consulted are train (63%) and bus (22%). For web based information services they are train (45%), car (44%) and aeroplane (38%). The main websites used for the different modes of travel are:

- rail information - National Rail
- coach – National Express (England and Wales)/Stagecoach (Scotland)
- bus – local providers rather than a national provider
- car – Automobile Association (AA)
- air – BA and Easyjet.

Four fifths of respondents said that Transport Direct was a service that they might use to plan journeys, for its ability to compare across modes (34%), its role as a one stop shop and hence comprehensive (29%) and its apparent convenience (18%). The main reason for not using for not using Transport Direct is use of a car (51%). 53% of respondents would use it for obtaining rail information (53%), 47% for car information (47%). A fifth of respondents had heard of Traveline, but interest in it was much less marked than for Transport Direct

Strengths/weaknesses:

The report provides a comprehensive view of public experience of using telephone and web information services, their views on Transport Direct and their reasons for their actions and views.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input checked="" type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Currently Dublin two operators provide passenger information via mobile phones, there are mode specific web services (but no integrated one), real time information on the rail, transit and quality bus services, and traditional paper based timetables and maps available from operators and at stops and stations. For survey respondents 35% of information comes from 'existing knowledge', 30% from the internet, 20% from mobile phones. Much existing information is good, but half of respondents want more; however, two-thirds perceive information and maps at stops as poor quality, though few feel deterred from using public transport by this. For internet services, the main priorities are speed of connection (95% of respondents rate as important), real time location of vehicle (90%) and a journey planner (73%). For call centres priorities are speed of access (93%), real time information (85%) and cost of calls (82%). For information by mobile phones the priorities are news of disruptions (89%), real time information (85%) and cost (84%). For real time displays at stops the priorities are news of disruptions (95%), estimated time of arrival (93%), a map displaying vehicles locations (83%) and information on connecting services (76%). The main preferences for information at the different stages of a trip were: Pre-trip information from origin to destination, paper based timetables (48% first choice) and the internet (30%); At-stop information, real time displays (RTPI) (74%) and paper based; On-board vehicle information, RTPI (69%) and paper based; Pre-trip information for return trip, internet (64%) and paper based. Overall the survey showed the value of the web based methodology used for quick assessments, the importance of RTPI systems and the concerns over cost of phone and internet systems.

Strengths/weaknesses:

The paper gives a clear picture of experiences and preferences for public transport information systems among users in Dublin. Its indicators of preferences offer some guidance for priorities in decision making. However, its findings are based principally on a non-random survey which may well have resulted in significant bias towards ITS literate people in central city (i.e. professional and administrative) jobs. Thus it probably does not reflect the overall population approach and thus the results need to be considered in this light.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

Email:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

- | | | | |
|------------------------|-------------------------------------|------------------|-------------------------------------|
| Awareness | <input type="checkbox"/> | Providers | <input type="checkbox"/> |
| Demand, access and use | <input type="checkbox"/> | Media | <input type="checkbox"/> |
| Context | <input type="checkbox"/> | Evolution | <input type="checkbox"/> |
| Content | <input type="checkbox"/> | Research methods | <input checked="" type="checkbox"/> |
| Behaviour | <input checked="" type="checkbox"/> | Other | <input type="checkbox"/> |
| Delivery | <input type="checkbox"/> | | |

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

becomes habitual; and finding ways to break 'bad' travel habits, an area in which practical experiments (e.g. supplying free public transport tickets for a month and observing behaviour) are important.

Strengths/weaknesses:

The paper provides a valuable focus on the nature of habitual travel behaviour, its development and role in travel decisions and ways in which habitual behaviour might be altered. The basis is largely conceptual.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

The results indicate that 35% of the respondents use their existing knowledge, while 30% use the Internet to obtain information and 20% paper timetables. More than two thirds of the respondents found the quality of bus/rail time tables and maps at stops/stations poor. Although 42% thought good information is provided, nearly a quarter (73%) of the respondents indicated that they would like to see more information provided. The most popular information source for pre-trip information from origin to destination were paper-based time tables, while the Internet ranked second. The lower rankings for SMS and call centres may be due to their costs in usage. Regarding at-stop information, the majority of respondents have a preference for Real Time Passenger Information (RTPI) displays, while paper-based methods ranked second. For pre-trip information from destination to origin, the Internet was most popular, probably due to sample characteristics (office workers who have Internet access), followed by paper-based methods.

Strengths/weaknesses:

This paper gives some basic insight into the preferred travel information sources varying per trip stage. More interpretation of the findings would have been welcome. As the authors acknowledge, because a non-probability convenience sampling method was chosen, no generalisations for the population can be made.

END

DOCUMENT DETAILS

Compendium ID:	1057	Date of Entry:	2007-05-29
Article title:	Integrated multimodal travel information in public transport		
Article reference details	Grotenhuis, J. (2005). Integrated multimodal travel information in public transport. Master dissertation, Utrecht University.		
Web Address:			
Source project (if applicable):			
Contact name:	Jan-Willem Grotenhuis		
Affiliation:	XTNT Experts in Traffic and Transport		
E-Mail:	jw.grotenhuis@xtnt.nl		
Sponsor(s):	Utrecht University		
Country/Region/City:	The Netherlands		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This master thesis explores what types of integrated multimodal travel information (IMTI) public transport users need and why, both pre-trip and en-route.
Description/method:	It is assumed that the type of information that public transport users need is determined by time and effort savings. Time savings are divided into searching time (of travel information) and travel time savings, whereas effort savings are composed of physical effort (e.g., walking, waiting, carrying) cognitive effort (mental effort to process travel information), and affective effort (the emotional energy expended on a journey, such as uncertainty). The desired travel information for the following three stages of a trip have been researched: pre-trip, way-side (e.g., at bus stops or stations), and on board. A literature review and eleven interviews with experts in the integration of travel information from different European countries have been conducted face-to-face or by phone to determine the types of needs public transport users might have. For each trip stage, a list of various needs was made and tested via stated preference in an internet survey that was conducted in October and November 2004. The survey was announced among students and staff of Utrecht University, and further spread by way of chain referral which resulted in 191 respondents. Nearly two-third of the sample (63%) is male and more than half (55%) is under 25 years old.

Findings/conclusions:

Most people prefer to collect and use IMTI in the pre-trip stage. Search time savings and travel time savings are most important during the pre-trip stage, whereas travel time savings and physical and affective effort savings seem most important wayside. On board, travel time savings and affective effort savings are desired most. Thus, in all trip stages travel time savings are considered to be important. Older people seem to have a greater need for IMTI than younger people (especially information that can reduce physical effort), throughout all trip stages. IMTI types needed by non-frequent travellers mostly serve to save search time, whereas IMTI needs of more frequent travellers (i.e. use public transport at least twelve days per month) mostly seem to save cognitive effort. Respondents who do not travel regularly by multiple modes stated more often that they need information on maps with major interchanges than travellers used to multimodal travel, which underlines their unfamiliarity with changing modes. Respondents who use public transport regularly for work and study purposes need less IMTI pre-trip, because of the familiarity of these journeys. However, wayside, they expressed a greater need for IMTI than non-frequent travellers or travellers with other purposes. This might be due to their familiarity with the public transport system: familiar travellers are better informed about the various route or mode options and in consequence about the value that IMTI can have if provided at the right place at the right moment. Unfamiliar travellers will probably stick to one route option and want to be informed about that particular route. Long distance travellers (travel distance more than 50 kilometres) expressed a need for pre-trip IMTI types that might save travel time. Short distance travellers probably consider it less valuable or attainable to save travel time.

Strengths/weaknesses:

This master thesis provides a detailed description of the different types of needs public transport users have at various stages of their journey. It shows how these needs vary per trip stage and type of person. However, the findings need to be interpreted carefully, since young males are over-represented in the sample.

END

DOCUMENT DETAILS

Compendium ID:	1058	Date of Entry:	2007-05-31
Article title:	Traveline and Transport Direct disabilities customer research.		
Article reference details	TTR (2004). Traveline and Transport Direct disabilities customer research. Transport and Travel Research Ltd. Department for Transport.		
Web Address:	http://www.transportdirect.gov.uk/research/pdf/prog-dcr.pdf		
Source project (if applicable):			
Contact name:	David Blackledge		
Affiliation:	TTR (Transport & Travel Research Ltd)		
EMail:	enquiries@ttr-ltd.com		
Sponsor(s):	Department for Transport		
Country/Region/City:	UK		

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This report assesses the travel information needs of disabled people.
Description/method:	Fourteen focus groups have been carried out (in Glasgow, Lincoln, Reading, and Liverpool) with the following types of disabled people: 1. blind and partially sighted people, 2. people who are deaf or hard of hearing, and 3. physically disabled people. There was also a single focus group (in Hove) involving people with learning disabilities. Within each focus group there was a mix of different ages, men and women, of public (and community) transport users and non-users, and of employed and unemployed persons. Telephone interviews were conducted with 18 Traveline regional call centre managers across the UK to ascertain the type of information that call centres provide for disabled travellers.
Findings/conclusions:	Regarding the current information sources that are used, most participants liked to obtain transport information through timetables and in person at travel information centres and train stations. Blind and partially sighted and physically disabled people preferred to use the telephone to obtain information, whereas deaf and hard of hearing people made more use of the Internet. People with learning disabilities found current sources difficult to use and tended to rely on word of mouth and help from other people when planning journeys. There was a wide variation in the level of information available to disabled callers depending on the location of their call centre. Fourteen of the 18 call centres contacted stated that enquiries about low floor buses were the most common information requirement concerning accessibility. Large print timetables, accessibility of stations and

infrastructure, and staff assistance were also mentioned. Very few respondents had heard of Traveline prior to the focus group discussion and nobody had heard of Transport Direct. Nearly all respondents were enthusiastic about the Traveline services. In comparison, they were less enthusiastic about Transport Direct, probably because the majority (64%) of the respondents did not have Internet access. The type of public transport information required varied considerably according to people's mobility characteristics. Deaf and hard of hearing people tended to need no more than basic time table information, whilst less independent travellers stated that they would want as much information as possible about the accessibility of both vehicles and interchange facilities. Information that was regarded as being 'essential' was: times of services, route numbers of buses, and alternative services in the event of delays and cancellations. There was a general feeling among all groups that 'something going wrong during a journey' was the biggest concern. To counter such worries, there was a desire among many participants for receiving real-time information on changes to services by means of a text message to a mobile phone. It was noted in all groups that, although information on the accessibility of physical infrastructure is important, the availability and helpfulness of staff during a journey had the greatest impact on making journeys less stressful. For about one in three of the respondents a lack of confidence generally was the main deterrent to public transport use and no amount of information on accessibility and assistance could encourage them to use public transport. A recommendation of the research was to provide disability awareness training to call centre staff and to recognize the importance of the completeness of the information for disabled travellers. It was also recommended that Transport Direct should comply with guidelines relating to the accessibility of Internet-based information provision (e.g., make printed information from the Internet available in large print format) and that all transport operators and information providers should have some means to handle an enquiry from a deaf or hard hearing caller using assistive technology such as email, text messaging, or fax.

Strengths/weaknesses:

This is a valuable piece of research that contains a lot of detailed information about the specific public transport information needs of various types of disabled travellers, as well as their experiences with using public transport and public transport information.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

- | | | | |
|------------------------|--------------------------|------------------|-------------------------------------|
| Awareness | <input type="checkbox"/> | Providers | <input checked="" type="checkbox"/> |
| Demand, access and use | <input type="checkbox"/> | Media | <input type="checkbox"/> |
| Context | <input type="checkbox"/> | Evolution | <input checked="" type="checkbox"/> |
| Content | <input type="checkbox"/> | Research methods | <input type="checkbox"/> |
| Behaviour | <input type="checkbox"/> | Other | <input checked="" type="checkbox"/> |
| Delivery | <input type="checkbox"/> | | |

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

In its introduction the report identifies how different parts of WSDOT have evolved different approaches and systems for EISS; it points out the contrast between traffic engineers, who see real-time information as an operational tool, and administrators, who see it as part of communication with the citizens. EISS is all pervading in modern society, it is interdependent in being an open system, it means different things to different people. A key problem is that confusion has arisen between communication, i.e. human inter-relations, and communications, the systems provided for interchange of information; thus knowledge management has evolved with a primarily systems rather than organisational focus; technical rather than strategic perspectives have guided the development of services. There are several challenges which EISS development must address, including the balance between central management and local execution, the scope for local autonomy, clarifying ownership and responsibility, overcoming funding disincentives, considering the evolution of issues over time, and tackling issues of organisational culture. The role of the Chief Information Officer (CIO) in management is crucial, especially in identifying and leading on organisation-wide aspects while supporting local autonomy elsewhere.

The stakeholder survey interviews identified a number of issues. Responsibilities for systems were mainly local, with conflicts and differences over choices of methods and systems; this reflects WSDOT's decentralised approach. There is no clear leadership, or awareness of common organisational goals. The focus is on technology rather than organisation or clients.

Strengths/weaknesses:

The study focuses almost entirely on management and organisational aspects of providing ITS travel information systems; indeed, these are effectively the context for the research rather than central to it. It is also set specifically in the USA. Nonetheless, it is a valuable analysis of issues of organisational management in the public realm that are crucial to understanding the best way forward for ITS systems.

END

DOCUMENT DETAILS

Compendium ID:	1061	Date of Entry:	2007-04-05
Article title:	TrafficTV.		
Article reference details	Dailey, D.J. and Bradbury, J. (2005) TrafficTV. Washington State Transportation Centre (TRAC), University of Washington.		
Web Address:	http://depts.washington.edu/trac/bulkdisk/pdf/603.1.pdf		
Source project (if applicable):			
Contact name:			
Affiliation:	University of Washington		
E-Mail:	dailey@ee.washington.edu		
Sponsor(s):	Washington State Department of Transportation		
Country/Region/City:	Puget Sound region, Seattle, US		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This report documents the developments and evaluations of TrafficTV; a traffic and traveller information source available on cable television.
Description/method:	The report describes the hardware and software for TrafficTV, discusses the selection process for programming features, describes the selected options that were implemented, and presents the conclusions and recommendations of two evaluations that were conducted after these changes had been made. The first is a customer satisfaction evaluation carried out in 1999, which sampled approximately 10,000 households in the Seattle area who had cable access to TrafficTV. The response rate was 17% (1,705 questionnaires returned). The second is a market penetration audit held in June and July 2004 in which 1,047 interviews were conducted.
Findings/conclusions:	TrafficTV receives traffic congestion information from the regional ITS backbone (in self-describing data format) and live traffic video. A computer program fuses the data, adds digital video effects, and supplies the resulting presentation to a cable television provider for cablecasting. The traffic congestion is displayed on a regional map; different colours on roadway segments indicate current travel speeds. Starting as Traffic Channel in 1998, improvements were made to this travel information service and it was renamed TrafficTV in 2001. Further changes were made and evaluated by a focus group in May 2004. This focus group concluded that TrafficTV is a useful travel information tool, but has not had sufficient public exposure to make it widely known to the travelling public. Nearly half a

million households would have the ability to access TrafficTV. The results of the customer satisfaction evaluation show that 13% of the respondents said they had ever watched the traffic information broadcasts. Of those, the majority (62%) was male. Respondents over 66 years old are less likely to have ever watched TrafficTV, while higher income respondents are less likely to be frequent viewers. Nearly half (45%) of the viewers said they use the information for commuting. Route changes and trip timing changes occur most frequently after consulting traffic information for commute trips. Frequent viewers are more flexible in their commutes and may therefore feel they have more to gain from the broadcasts. The market penetration audit concluded that over 94,000 viewers had seen TrafficTV within the last week, based on 1,047 conducted interviews. This was deemed surprisingly high, given the lack of external exposure and that viewers would have found TrafficTV only by word of mouth or by "channel surfing". A conclusion of the audit was that additional exposure would make TrafficTV more valuable as a traveller information tool.

Strengths/weaknesses:

It is unclear how the audit concluded that 94,000 people watched TrafficTV in the last week based on 1,047 conducted interviews. This report provides basic information; the appendices contain relatively more information (especially appendix I, which contains the outcomes of the customer satisfaction evaluation).

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input checked="" type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Two hypotheses were tested.

Radio archetype v. pre-trip ATIS user. The radio archetype performed worse over both peak periods. Radio broadcasts cover only a small proportion of all road segments, whereas the ATIS user gets travel time estimates for his entire trip. Radio users assume free traffic flow when there is no broadcast, which is often not the case. In the AM peak, the radio archetype had greater late schedule delay of 3.9 minutes compared to 2.5 minutes for the pre-trip ATIS user, but in the PM peak both traveller information users had the same late schedule delays (3.4 minutes). The radio archetype suffered greater measured disutility.

Radio archetype v. non-ATIS user. In the morning peak the non-ATIS user had higher trip Reliability, lower travel disutility, and smaller late schedule delays (2.8 minutes versus 3.9 minutes). Radio archetypes may not pick up all relevant broadcasts. In the afternoon peak the performances were the same.

Strengths/weaknesses:

The report provides a useful assessment of the impact of radio broadcasts on car travel, based on analysis of actual broadcasts. However, it is based solely on one analytical model and does not reflect actual behaviour or wider aspects of radio information.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

respondents as preferred information sources on trip, followed by SMS on mobile phones (27%) and a navigation system in the car (26%).

Strengths/weaknesses:

It is difficult to gain a full understanding of the results based on the summary only.

END

DOCUMENT DETAILS

Compendium ID:	1064A	Date of Entry:	2007-05-31
Article title:	Transport Direct Research Project MR08. Focus Group Report.		
Article reference details	TTR (2004). Transport Direct Research Project MR08. Focus Group Report. Transport & Travel Research Ltd. Department for Transport.		
Web Address:	http://www.transportdirect.gov.uk/research/pdf/mr08.pdf		
Source project (if applicable):			
Contact name:	Rachel Brooks		
Affiliation:	TTR (Transport & Travel Research Ltd)		
EMail:	enquiries@ttr-ltd.com		
Sponsor(s):	Department for Transport		
Country/Region/City:	UK		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This report forms the first part of a research that aims to provide more insight into the issues travellers face when using and printing traveller information obtained from the Internet.
Description/method:	Eight focus groups have been conducted in greater Nottingham, each with 6-10 participants. Respondents fell into one of the following five categories: 1. long distance car travellers, 2. rail travellers, 3. local trip makers, 4. people with difficulties in understanding printed information, 5. football supporters (representing travellers who regularly travel long distances to events). A questionnaire about printing and using information from the Internet was handed out to each participant at the beginning of the focus group and was collected before the focus group began.
Findings/conclusions:	The type of information that is required for public transport journeys is the cost of the trip and general timetable information including duration and change details, whereas for car journeys route information (map / text directions or both) and the duration of the journey were the main pieces of information that travellers required. Long distance car travellers currently consider maps on journey printouts to be of poor quality and they tend to print a suitable map from another website. They also use map books to accompany the journey. Long distance rail travellers print the information as it appears on screen, take it with them, and use it throughout the journey. Particularly females verify their information with static information sources at the station and with other Internet journey planners. Local travellers

tend to print or write down the journey planner information, but are less inclined to print information for short or local journeys. Travellers with dyslexia find the current information that is provided very confusing and they often alter the screen and printer settings before viewing or printing a page. Football supporters find journey planners straightforward to use, but dislike journey planner maps due to lack of detail. The majority of travellers (60%) print out the information a day before the trip, while the rest would look up the information at least a week before the trip. Nearly all travellers (92%) took a form of travel information with them on their journey to assist them whilst making their trip. The key points that travellers wanted their journey planner print out to provide are: 1. simple, straightforward information that is easy to understand, 2. all the information they needed on one printout, 3. maps that are clear and detailed enough to read whilst travelling, 4. more imagery and key symbols to illustrate key directions, 5. a font size and colour to meet the needs of all users, 6. limited amount of 'white' space on the printout to reduce excess use of paper. Users of journey planner websites have indicated that they want a wide range of information to be available on screen to use, but they want to be able to select the specific information that they require. The inclusion of additional information on screen (e.g., landmarks, maps, symbols) on request, coupled with options to select the amount of detail required prior to printing will result in personalised printouts which will be of greater assistance to users than the information which is available today.

Strengths/weaknesses:

This report provides more insight into travellers' needs for printing and using information from the Internet and how these needs differ per type of traveller.

END

DOCUMENT DETAILS

Compendium ID:	1064B	Date of Entry:	2007-05-31
Article title:	Transport Direct Research Project MR08. Workshop 2 Report.		
Article reference details	TTR (2005). Transport Direct Research Project MR08. Workshop 2 Report. Department for Transport.		
Web Address:	http://www.transportdirect.gov.uk/research/pdf/mr082.pdf		
Source project (if applicable):			
Contact name:	Rachel Brooks		
Affiliation:	TTR (Transport & Travel Research Ltd)		
E-Mail:	enquiries@ttr-ltd.com		
Sponsor(s):	Department for Transport		
Country/Region/City:	UK		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This report forms the second part of a research that aims to provide more insight into the issues travellers face when using and printing traveller information obtained from the Internet. It reports the results of a design workshop where prototypes of printed travel information were compared with the existing printed output from the Transport Direct portal.
Description/method:	Mostly the same respondents that had participated in the first part of the research also participated in the second part (although some new respondents were recruited as well). In the workshop, respondents compared mock up printouts with a printout from the Transport Direct portal.
Findings/conclusions:	Most respondents disliked the current maps used for the print outs and would like to see clear, bright, and easy to read localised maps covering a wider area around unfamiliar locations and for journey routes to be highlighted. They also need to contain additional information wherever possible, such as local landmarks. It is recommended that two common print outs be designed for the Transport Direct portal, one for car users and one for public transport users.
Strengths/weaknesses:	This report contains a lot of practical recommendations for improving printed output from the Transport Direct portal.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input checked="" type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions: - Business/cost recovery models for information systems: Various public-led, public-private and private sector models exist. National departments of transport usually lead on provision of a national traveller information database. The need to integrate information"/>

means that multimodal and multiagency cooperation are critical for successful deployment of an ATIS. Operator-based call centres are far more extensive than in the USA, especially in the UK, as is delivery of in-vehicle information. Small-scale, innovative business models are tested in a discreet way before being considered for larger deployment.

- Quality measures: There is a generally strong commitment to measuring and improving the quality of traveller information collection and delivery; especially in Sweden. In most cases, the sites start with quantitative measures and then move to qualitative measures.

- Technology applications: The application of multiple colours and symbols on dynamic message signs (DMS) appears to improve message transfer and understanding among commuters. Advanced detection techniques are pursued and tested at most sites, including the use of vehicles as probes or of video technologies to match vehicles. Automated parking information systems are operating in every city visited. Real-time information delivery mechanisms are used extensively.

- International / national consistency issues and standards: This was not a major discussion point at any of the places visited but there was acknowledgment of the need for and use of standards and of the work of various standards groups.

- Policy/institutional/legal aspects: Traveller information policies varied by country, depending on the government. National policies exist as a model where the state department of transportation will provide guidance, through a top-down approach. National traveller information databases are generally being pursued and are under development. Establishing a sustainable traveller information system requires integration of information.

Strengths/weaknesses:

The review provides a valuable overview of commonalities and differences in approach across Europe and between Europe and the USA. It largely focuses on the types of systems provided and how they are implemented in the context of the particular cities visited. There is little information about transport policy and the main focus appears to remain on car travel systems rather than public transport. It is written from the USA perspective.

END

DOCUMENT DETAILS

Compendium ID:	1066	Date of Entry:	2007-03-12
Article title:	Strategies for Improved Traveler Information		
Article reference details	Schweiger, C. L. and Shammout, K. (2003). Strategies for Improved Traveler Information. The National Academies. 112 pp		
Web Address:	http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp_rpt_92.pdf		
Source project (if applicable):	TCRP Project A-20A(2)		
Contact name:	Carole L Schweiger		
Affiliation:	Multisystems, USA		
E-Mail:			
Sponsor(s):	Federal Transit Administration		
Country/Region/City:	USA		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input checked="" type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	To provide a useful summary of the state of the practice in the area of improved transit traveller information (TTI). To provide information on the demand for TTI; the state of the art in providing TTI, examples of providing customer information in related industries, TTI as part of community information systems, and new directions for TTI.
Description/method:	The study involved four main tasks, which were based on wide ranging use of research and other literature, Internet based information, focused discussions with contacts in the transit and other transport and logistics industries. The tasks were: - Update state-of-the-art information from literature. - Summarise the experience of other (related) industries in providing information, through telephone interviews with key personnel. - Summarise transit's role in community information systems. - Identify potential new directions in TTI.
Findings/conclusions:	Four key strategies for improved TTI were identified which are being deployed by transport agencies outside the United States or by non-transit industries, and issues and opportunities within each were drawn out. These main issues were: - Quality of data is fundamental to the quality of information provided. Data should be of appropriate detail for the mode (e.g. far more detailed for pedestrian information). They should be comprehensive for the area, including covering potential journeys beyond. They should be regularly maintained; this might be aided if each set (e.g. bus stop locations) is

managed by one agency.

- TTI should be fully integrated with other traveller information, particularly traffic information for "one-stop" regional information shopping; Transit agencies could sell their data if completely sound, since it is based on a unique operational basis. TTTI should include travel times by transit journeys; this is essential for comparable multi-modal systems.

- More customer-focused and personalized information is important. These might include: clear stop specific timetables, with maps / diagrams (as e.g. London Buses); and IVR technology, which enables passengers to obtain information on specific services by mobile phone.

- Provision of real-time information using a variety of dissemination media is valuable; experience suggests that it needs to be developed on a step by step basis so that the public have confidence in it and become accustomed to using it.

Strengths/weaknesses:

The report offers a comprehensive review of transit (public transport) information provision across the USA and in some European centres and draws together aspects of best practice. It is heavily oriented towards issues around provision rather than matters of customer preference or behaviour. It is written from the USA perspective.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

Email:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

- | | | | |
|------------------------|-------------------------------------|------------------|--------------------------|
| Awareness | <input type="checkbox"/> | Providers | <input type="checkbox"/> |
| Demand, access and use | <input checked="" type="checkbox"/> | Media | <input type="checkbox"/> |
| Context | <input type="checkbox"/> | Evolution | <input type="checkbox"/> |
| Content | <input type="checkbox"/> | Research methods | <input type="checkbox"/> |
| Behaviour | <input type="checkbox"/> | Other | <input type="checkbox"/> |
| Delivery | <input type="checkbox"/> | | |

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

This paper draws attention to the fact that sometimes, car users are better off if they are the only ones who use travel information compared to other car drivers.

END

DOCUMENT DETAILS

Compendium ID:	1068	Date of Entry:	2007-04-05
Article title:	Perspectives and expectations of drivers: a literature and best practices scan.		
Article reference details	Weisser, K., I. and Horowitz, A. (2002) Perspectives and expectations of drivers: a literature and best practices scan. Project #SPR-0092-02-12, University of Wisconsin.		
Web Address:	http://www.topslab.wisc.edu/workgroups/sketchplanning/driver_expectations.pdf		
Source project (if applicable):			
Contact name:	Alan J Horowitz		
Affiliation:	University of Wisconsin, Milwaukee		
EMail:	horowitz@uwm.edu		
Sponsor(s):	Wisconsin Department of Transportation, Federal Highway Administration		
Country/Region/City:	Mainly US, some international coverage		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	The Wisconsin Department of Transportation initiated this study in order to determine missing research elements that are critical to its mission. The report reviews the literature on drivers perspectives and expectations of Intelligent Transportation Systems (ITS).
Description/method:	The literature scan yielded 158 articles of which 84 have been included in an annotated bibliography.
Findings/conclusions:	The authors conclude that improving existing media may be a powerful tool at modest cost. The general public is likely to use radio or Changeable Message Sign (CMS) or other "low-hassle" media. Also, they are less likely to seek out information compared to "technophiles". The latter group of people are likely to use new technology, to be young, male, wealthy, and "control seekers". Trip types have different information needs; no single format is useful for all trips. The highest demand for information is by commuter trips and special trips (such as airport, stadium, appointments). Radio and television are the dominant media for consulting pre-trip information. Very few travellers use telephone, Internet, or other technologies where these services are available. Radio and CMS are the dominant media for consulting en-route information. The willingness to pay for on-board technologies is low, and very few travellers use such technologies or the telephone for en-route information. Thus, though their current usefulness is limited, existing media (radio, television, CMS) are very popular. Drivers generally want to receive information as they

listen to or watch other programming or observe their environment. Independent of media or technology, drivers generally want to know if there is a problem, what the problem is, the delay, a prescribed remedy or alternate route, and how the alternate delay compares with the highway delay. They like to have more information at the right time and enough information so they can weigh their priorities and make a decision. The use of ATIS is very low and ATIS users had moderate rates of changing route or time (averaging about 50%) around a delay. Given the gaps existing research, future studies could be undertaken in the following areas: 1. The improvement of radio, television, and CMS information; 2. General guidance for implementation of ITS for work zones; 3. Special trip and special event driver needs; 4. Intercity or rural driver needs; 5. Truck driver needs; 6. Public safety/homeland security needs.

Strengths/weaknesses:

This is a rather rudimentary report that only highlights the main findings without much discussion of the literature.

END

DOCUMENT DETAILS

Compendium ID:	1069	Date of Entry:	2007-04-10
Article title:	Traveler response to information: who responds and how?		
Article reference details	Bottom, J., Masroor, H., and Lappin, J. (2002). Traveler response to information: who responds and how? TR News, 218, 25-30.		
Web Address:			
Source project (if applicable):			
Contact name:	Jane Lappin		
Affiliation:	Volpe National Transportation Systems Center		
E-Mail:	lappin@volpe.dot.gov		
Sponsor(s):			
Country/Region/City:	International coverage, but mainly US		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This article aims to provide more insight into who uses travel information and how it is used.
Description/method:	This article reviews 25 (mostly academic) papers regarding travel information use and summarises the main outcomes.
Findings/conclusions:	Potential users of travel information can be divided into three groups: 1. control seekers who travel frequently, are comfortable with technology, and like to plan ahead; 2. value-added service buyers who are uncomfortable with maps and computers but appreciate things that make life easier; and 3. wired with children, who have high incomes and long commutes but value convenience. Travel information reduces the anxiety of not knowing the travel conditions. Also, in the case of an unexpected event, activities can be organized at trip end points by calling ahead and rearranging the schedule. Various trip making responses have been observed to travel information, e.g.: destination choice, mode choice, route choice, departure time choice, and parking choice. Travel information users indicated that the following information was the most valuable: 1. incident location, type, and delays; 2. queue lengths; and 3. recommendations and directions for alternative routes. It is as yet unclear to what extent users are willing to pay for information.

Strengths/weaknesses:

This is a succinct overview of the benefits of travel information and user responses to such information. However, in presenting the findings, it often draws heavily on one source in the literature only for each finding.

END

DOCUMENT DETAILS

Compendium ID:	1070	Date of Entry:	2007-05-31
Article title:	Research into the use of the Transport Direct portal by BME groups.		
Article reference details	SRA (2004). Research into the use of the Transport Direct portal by BME groups. Department for Transport.		
Web Address:	http://www.transportdirect.gov.uk/research/pdf/mr12.pdf		
Source project (if applicable):			
Contact name:			
Affiliation:	Social Research Associates		
Email:	office@sraltd.co.uk		
Sponsor(s):	Department for Transport		
Country/Region/City:	UK		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This report presents results of research carried out among black and minority ethnic (BME) groups to assess their opinions and level of understanding of the Transport Direct website.
Description/method:	Practical trials of the Transport Direct website were carried out with small family groups in July and August 2004. The following eight communities were researched: Afro-Caribbean, Bangladeshi, Black African, Chinese, Eastern European, Indian, Jewish, and Pakistani). In each community, three families took part in an hour-long session in which they were first asked about their travel behaviour and then invited to test the Transport Direct website by finding out how to travel to two or three destinations. The testing was done in the offices of Social Research Associates in Leicester and in two cases in community centres in London. In total 66 adults attended the research sessions (56% female) from a broad age range. Ten families did have Internet access at home and 14 families did not.
Findings/conclusions:	Public transport is the main mode of transport for most of the participants. When in need of travel information, most respondents go to the train or coach station where they can receive personal attention and be sure of the correct information. The main finding of the research is that most of the problems people have with using the Transport Direct website are general technical or comprehending difficulties which are typical of the entire population and not therefore ethnically related. Some respondents required information about group travel and destinations worth visiting as a day trip. More detail was needed of the facilities at train and tube stations, especially in families with young children. Because

BME groups tend to have lower incomes and larger families information about the cost of public transport journeys is crucial. The information on the portal is as yet not designed for identifying the cheapest options for group travel. Most difficulties were encountered when trying to input details of the test journeys, with many respondents finding the array of options to select overwhelming. It is recommended to place a welcome note on the home page in different languages and to include a tutorial page in different languages, demonstrating how to use the site.

Strengths/weaknesses:

Although this research fills a gap in the knowledge about the travel information needs of BME groups, overall , relatively few new insights have been provided and few specific recommendations have been made. This is probably due to the main finding that most of the problems encountered in using the Transport Direct website were not ethnically related.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Two thirds (67%) of calls to Traveline were answered correctly. 14 % of all calls were scored as incorrect, because the mystery shopper was transferred to one of the trunk operators for all or part of the requested journey. The report states that this is a low score, indicating that for nearly every two in five calls to obtain a combined local and trunk journey to Traveline, the customer will receive no information, inaccurate information, or a slower journey. The length of time allowed by the Traveline journey planner for interchange between modes differs from that of the trunk operator. This leads to different journey solutions being offered. It is recommended that the interchange parameters used by all journey planners should be checked. Where possible the NRES and National Express interchange times should be sought and used in Traveline journey planners. The parameters must not be set below those used by the trunk operators. In general, the accuracy of information must be improved so that information supplied by Traveline is comparable to that provided by the trunk operator. The frequency with which information is uploaded onto journey planners should be checked. The number of instances where a caller is transferred to the trunk operator must be reduced. Feedback from the call centres showed that they think the mystery shoppers should have stated a preference for rail or coach, as this is what a member of the general public would do. Also, they pointed out that there are various journey outcomes possible according to different journey planners (e.g., Qjump and NRES), which makes it difficult to assess which outcome Traveline is expected to match.

Strengths/weaknesses:

This is a factual report about the performance of the Traveline phone service.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

to be resolved.

Strengths/weaknesses:

Similar to the first report, this is a factual account of the performance of the Traveline phone service.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

- | | | | |
|------------------------|-------------------------------------|------------------|--------------------------|
| Awareness | <input type="checkbox"/> | Providers | <input type="checkbox"/> |
| Demand, access and use | <input checked="" type="checkbox"/> | Media | <input type="checkbox"/> |
| Context | <input type="checkbox"/> | Evolution | <input type="checkbox"/> |
| Content | <input type="checkbox"/> | Research methods | <input type="checkbox"/> |
| Behaviour | <input type="checkbox"/> | Other | <input type="checkbox"/> |
| Delivery | <input type="checkbox"/> | | |

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

The value of travel information is conceptualized as the extent to which information about travel time (or any other relevant state of the system) improves activity-travel scheduling decisions at the beginning of the day and during execution of a schedule. Learning a traffic environment based on experience does not necessarily mean the value of information decreases over time. Instead, the value of information is a function of the degree of uncertainty and only if uncertainty decreases with learning will the value show a decreasing trend. The (perceived) credibility of information tends to have a strong impact on the value of information. At the same time, the impact of the uncertain outcomes on perceived utility determines the value of information and, hence, the inclination of using information. The authors conclude that the nature of the transport system, the schedule context, and the individual's perceptions and ability to learn all should be taken into account in generating valid estimates of the value of information.

Strengths/weaknesses:

This paper clearly describes an approach to model the value of travel information that takes into account learning mechanisms of individuals and their activity scheduling context. Nevertheless, the assumptions that are made in the model raise the question how realistic the results are. For example, it is assumed that individuals use a scenario-based approach (an individual generates a schedule for each possible scenario and will take all other possible outcomes into account when evaluating the schedule alternative), which might not resemble reality.

END

DOCUMENT DETAILS

Compendium ID:	1073	Date of Entry:	2007-04-09
Article title:	A methodology for sustainable traveler information services.		
Article reference details	Lo, H. K., and Szeto, W. Y. (2002). A methodology for sustainable traveler information services. Transportation Research B, 36, 113-130.		
Web Address:			
Source project (if applicable):			
Contact name:	Hong K. Lo		
Affiliation:	Hong Kong University of Science and Technology		
Email:	cehklo@ust.hk		
Sponsor(s):	Hong Kong University of Science and Technology		
Country/Region/City:	Hong Kong		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input checked="" type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This study develops a mixed-equilibrium model to consider the implementation of RPG (Route Planning and Guidance) services.
Description/method:	The market penetration of RPG services is modelled in an elastic manner. The perspectives of the following three parties are considered: 1. Service providers (whose objective is profit driven); 2. Traffic management agencies (whose objective is to reduce congestion), and 3. Users (whose objective is to save travel time at an affordable service charge). A methodology is introduced that studies the relationships between these conflicting objectives and their tradeoffs. Numerical results of a small existing network located in the western suburb of Hong Kong are provided to illustrate the behaviour of the model.
Findings/conclusions:	In most of the numerical experiments conducted, the information service providers hold back on improving the information quality, which results in quite a different optimum compared to the traffic management agency's optimum. The government can do better by introducing policy elements to shift the equilibrium, such as regulating the service charge and improving the information quality for the service providers. Specifically, the government could subsidise the data acquisition costs for the service providers or subsidise the service charge for users. Both types of subsidies benefit all parties, though the extra reduction in total travel time is modest. An unexpected outcome was that subsidising the service charge actually doubles the profit of the service provider, due to an

increase in the market penetration and an increase of the collected service charge. Overall, the results show that it may not be possible to determine a unique set of decisions to optimize for all objectives. The outcomes are sensitive to the total demand, the network, and various cost parameters, rendering the outcomes difficult to be anticipated. The trade-off is likely to be case specific and network dependent.

Strengths/weaknesses:

This article gives a well-balanced view on the modelling possibilities of the various actors that are involved in the provision of travel information. It could have expanded a little more on the role the government might play to influence the quality of information provision, even though this is not its focus.

END

DOCUMENT DETAILS

Compendium ID:	1074	Date of Entry:	2007-04-09
Article title:	Motorway/Trunk Road Users Survey 9th Wave (November 2006).		
Article reference details	FDS International Ltd (2007). Motorway/Trunk Road Users Survey – 9th Wave (November 2006). Draft report prepared for SERCO.		
Web Address:			
Source project (if applicable):			
Contact name:	William Ullstein		
Affiliation:	FDS International Ltd		
Email:	will.ullstein@fds.co.uk		
Sponsor(s):	SERCO		
Country/Region/City:	UK, England		

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This report describes how motorists obtain pre-trip and en route travel information, how they use this information, and how they value the information received.
Description/method:	Face-to-face interviews were conducted with 562 motorway and trunk road users at service stations in England in November 2006. Quotas were set to reflect the range of drivers in terms of age, gender, and vehicle type. Quarterly surveys have been conducted since October 2004.
Findings/conclusions:	The proportion of road users ever checking road conditions before travelling has declined from 46% in 2005 to 38% in 2006. Seven in ten (69%) of all drivers had, in the last three months, received reports of accidents, heavy traffic delays, or road works while travelling, which is in line with previous waves. Of those who learned of congestion ahead while driving, 57% took action. Over the nine waves of the survey, there has been a marginally significant increase (from 64% to 70%) in the proportion of drivers with an in-car entertainment system using a Traffic News facility. Looking at the share of motorway screens as an information source, a decline can be observed (63% received information via motorway screens) after a peak between October 2005 and April 2006. The proportion of respondents who rated the credibility of VMS as high or very high has increased from 51% in October 2004 to 61% in November 2006. Women, those under 35 years of age, and people who travel less than once a week on the motorway are less likely to check road conditions before travelling. Of those respondents ever seeking advance information,

45% do so every time they travel, while 34% do so if they are making a long journey and 22% do so if they are making an unfamiliar journey. Radio is the most popular source of pre-trip information, followed by the AA website. Typically, drivers want to learn about delays, roadworks, and accidents and incidents. The majority (88%) of the 137 respondents who received advance warning of congestion on their intended route in the last three months undertook action: 83% travelled on a different road, 14% travelled at a different time of day, and 2% travelled on a different day. 88% of drivers who took action as a result of pre-trip information claimed the information was accurate. The most important reasons for not seeking any pre-trip information are: use radio while en route (30%) and can't be bothered (29%). One in five of those who currently do not seek pre-trip information state that they do not know where to find this information. Nearly half (47%) of the respondents would use the radio and 15% would use the AA website when asked where they would obtain travel information from. Respondents travelling more than 100 miles are more likely to use a traffic news facility compared with those making shorter journeys of less than 50 miles. In the nine waves of the survey to date the proportion of drivers who take action has fluctuated between 51% and 64% with no discernable pattern. Those listening to the radio have been consistently more likely to take action (61% in the latest wave) than those reading motorway messages (47% in the latest wave). Regardless of undertaking action or not, the majority of the drivers (80%) felt they made the right decision. 38% of those who received warnings of congestion while driving said they wanted further information about: alternative routes, estimates of how long delays will continue, earlier notifications of delay, and more accurate and up-to-date information.

Strengths/weaknesses:

This report provides empirical data about actual pre-trip and en route traffic information use of car drivers over a two-year period of time. Only descriptions are offered, however, no multivariate analysis techniques have been applied that could explain the level and type of information use.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

costs of travellers: 1. Better information enables travellers to adjust their choices so that generalised costs are lower compared with the situation without this information; 2. Availability of en route traveller information and mobile communication technology could lead to lower costs of arriving late by their ability to warn other people about the late arrival; 3. Travellers may appreciate information on the projected travel time. As long as uncertainties are not well specified in value of time studies, one may expect that they will lead to overestimates of the value of time.

Strengths/weaknesses:

This paper clearly outlines the potential benefits of travel information in the public transport sector. However, its conclusion that information provision on public transport will lead to higher public transport use is not well supported. The paper fails to describe how public transport could become an alternative for travellers who do not use public transport at all. Additionally, it does not elaborate on how time table information of public transport services will have a downward effect on waiting times and scheduling costs, which makes public transport more attractive. Moreover, it is assumed that when information provision leads to lower generalised costs of travellers this implies a certain willingness to pay for information. However, this assumption is not well explained.

END

DOCUMENT DETAILS

Compendium ID:	1076	Date of Entry:	2007-06-01
Article title:	Focus Group Research. Future Transport Direct Channels & Services.		
Article reference details	Systems Concepts Ltd (2004). Focus Group Research. Future Transport Direct Channels & Services. Department for Transport.		
Web Address:	http://www.transportdirect.gov.uk/research/pdf/mr11.pdf		
Source project (if applicable):			
Contact name:	Sarah Durham		
Affiliation:	Systems Concepts Ltd		
E-Mail:	sales@system-concepts.com		
Sponsor(s):	Department for Transport		
Country/Region/City:	UK		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This report presents the results of focus groups that were conducted to assess the feasibility of delivering Transport Direct via new channels and services, such as SMS, PDA, and a kiosk.
Description/method:	Four different traveller types attended the focus group sessions and two channels were presented at each group :1. business traveller (PDA, WAP), 2. student (SMS, Smart phone), 3. local public transport traveller (kiosk, WAP), and 4. leisure/casual labour (kiosk, SMS). The sessions were held in the offices of System Concepts in London.
Findings/conclusions:	Overall, reactions differed between the channels/services. Participants generally felt that PDA, kiosk, and Smart phone would be better channels to provide the travel information that they needed. Ordinary mobile phones (SMS and WAP) were thought to have screens that were too small to read features such as maps. Also, people were concerned about receiving too many text messages and the costs involved. Participants were less concerned with the cost of accessing the Internet via PDA and Smart phone and some indicated that they would be willing to pay a little to use kiosks (provided they got a print-out). Also, the participants' preferences appeared to suggest that they are attracted to 'higher bandwidth' channels/services. The business traveller group showed a preference for the PDA, the students for Smart phone, while both the local public transport traveller group and the casual labour group showed a preference for the kiosk.

Strengths/weaknesses:

The results in this report are tabulated with a high level of detail, which makes them difficult to process in forming an overview of the main findings. More description/interpretation and less tables/lists would have enhanced the accessibility of the report.

END

DOCUMENT DETAILS

Compendium ID:	<input type="text" value="1077"/>	Date of Entry:	<input type="text" value="2007-06-01"/>
Article title:	<input type="text" value="Traveline Research Project Executive Summary"/>		
Article reference details:	<input type="text" value="TTR (2003). Traveline Research Project Executive Summary. Department for Transport."/>		
Web Address:	<input type="text" value="http://www.transportdirect.gov.uk/research/pdf/traveline_futures.pdf"/>		
Source project (if applicable):	<input type="text"/>		
Contact name:	<input type="text" value="Phil Barham"/>		
Affiliation:	<input type="text" value="TTR (Transport & Travel Research Ltd)"/>		
EMail:	<input type="text" value="enquiries@ttr-ltd.com"/>		
Sponsor(s):	<input type="text" value="Department for Transport"/>		
Country/Region/City:	<input type="text" value="UK"/>		

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:	<input type="text" value="This executive summary presents the main findings of a research conducted to establish the effectiveness of the Traveline information service."/>
Description/method:	<input type="text" value="The attitudes and requirements of existing users of Traveline were investigated using focus groups, in-depth telephone interviews, and a quantitative telephone survey amongst a random sample of 1008 callers to four call centres. These surveys were supplemented by analysis of call record data from the Plymouth call centre. Evidence as to the types of information people look for when planning and making a journey by public transport was gathered by means of qualitative and quantitative research using focus groups and a nationwide on-street survey of 1000 members of the general public."/>
Findings/conclusions:	<input type="text" value="The public in general know little or nothing about Traveline, although the majority of people would use a telephone enquiry service to obtain information about public transport journeys. The majority of Traveline callers surveyed were women making short distance bus journeys. More than half of the respondents had some access to a car. Two-third of the sample had already made the journey that their enquiry was based on before calling Traveline. The main reason for using Traveline is the reassurance of a human voice, although 15% of those questioned feel the information to be more trustworthy and 14% like to double check information they already have. Most respondents were occasional callers or called Traveline for the first time. Two-thirds of enquiries are about bus journeys, 17% are about train journeys, and 13% about both bus and train. Most people call either"/>

on the same day or the day before their journey, and enquire most often about short distance journeys, although 23% of the enquiries were about long distance journeys. Asked about what they would do if they had not been able to call Traveline, 3% indicated they would have travelled by car and another 3% said they would not have travelled at all, whereas the majority of travellers indicated they would have found the information from somewhere else. There is a particular demand to have information on special offers and discounts, especially from bus operators. The results show that existing Traveline users think that the service should extend its opening hours beyond from 0800 to 2000 hours. It is recommended that Traveline needs greater promotion.

Strengths/weaknesses:

Since this is an executive summary, not much information is available about the methodology, nor exact percentages for the results.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

The results show that under certain network conditions, the objectives of the three parties studied may conflict with each other. Even if the RPG service is beneficial in the eyes of the subscribers and society in general, it may be perceived as detrimental in the eyes of the transportation management agency. All travellers, regardless whether they subscribe to the RPG service or not, enjoy the service because they all are better off in terms of total generalized travel cost (i.e. travel time cost plus schedule delay cost). The surprising result, however, is that the network faces more severe congestion. This seemingly paradoxical phenomenon is due to the much lower schedule delay cost incurred on travellers with RPG services, which more than compensates the higher travel time cost of the more congested network. This finding indicates the importance of considering RPG services from a more comprehensive perspective. When schedule delay cost is included as part of the benefit assessment, the system can still benefit substantially in terms of total generalized travel costs, despite the occurrence of a more congested network (or a higher travel time cost).

Strengths/weaknesses:

This article points out potential unforeseen consequences of travel information use on the level of the transport system.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Transport Direct is recommended to revise the goals and objectives of the current evaluation framework. The AIDA (Awareness, Interest, Desire, Action) advertising process model is a cornerstone of the current framework, but critics suggest that consumers will not always go through each step at all, or in the order of the model. Evaluation of the delivery of public transport information via Internet pose challenges related to sample selection and size, contact strategies, and response rates. One way of tackling the challenges of sampling Transport Direct users would be to set up a public reference group (or panel of people) who are willing to participate in a number of evaluation processes. The reviewed literature indicates that well designed stated and revealed preference techniques could provide valuable insight into the intended behavioural changes resulting from use of the Transport Direct portal. Triangulation is recommended, since a comparison of different research approaches to the same study could provide insight into the reliability and validity of the results. The current evaluation of Transport Direct has only limited capacity to triangulate results. A set of key performance indicators are suggested, such as: number of abandoned visits, number of site errors experienced, average site speed, barriers to accessing the site, number of complaints, and accuracy of information provided.

Strengths/weaknesses:

This report gives a thorough overview of the methodological issues regarding the evaluation of a multimodal travel information service such as Transport Direct.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

players in the Department for Transport and Transport Direct.

Findings/conclusions:

The most common types of journeys for which respondents used TIS were non-local and atypical journeys, which could be holidays, day trips, trips to friends or family, business trips, or trips to concerts or sporting events. Respondents used both online and telephone services. Often two websites were used to meet a person's information needs. One person out of the 30 interviewed was aware of, and had used, Transport Direct. The minority of respondents indicated they were not likely to use Transport Direct, giving reasons such as not liking the Internet, and only using the car and going on journeys they know well. Most often they cited that they already used a travel information service which suits their needs. When asked about their satisfaction with TIS, some respondents were referring to the helpfulness of staff in a telephone-based TIS they had used rather than the helpfulness of the information itself when they rated this aspect. When scoring their satisfaction with TIS, most respondents did not consciously consider a specific timeframe. The authors conclude that current information services do meet the needs of travellers. Little real demand for comparison between different modes of transport for a single journey was found. Also, no evidence was found that respondents were looking for information on door-to-door journeys involving multi-modal travel. The authors rightly draw attention to the potentially biased sample of telephone interviews (only people who have used the print function of the portal were included in this study). They found that users appear to be relatively highly satisfied with the Transport Direct Portal. Satisfaction was closely linked to expectations (those with lower expectations reported higher satisfaction levels) and on comparisons made with other web sites. Key drivers of satisfaction are: ease of use and satisfying a particular information need (often related to the multi-modal integrated nature of the information that allowed people to plan complicated journeys or give an overview of different options).

Strengths/weaknesses:

This report provides valuable insight into how respondents interpret questions about their attitudes towards travel information services and their use of such services. It shows what discrepancies could occur between how researchers intend their questions and how they are actually understood. However, very few suggestions are made about how to overcome such problems.

END

DOCUMENT DETAILS

Compendium ID:	1081	Date of Entry:	2007-05-21
Article title:	Transport Direct Evaluation: Final Report.		
Article reference details	AEA Technology, (2007). Transport Direct Evaluation: Final Report. AEAT/ED50207/R3.. Department for Transport.		
Web Address:			
Source project (if applicable):			
Contact name:	Heather Haydock		
Affiliation:	AEA Technology		
Email:	info@aeat.co.uk		
Sponsor(s):	Department for Transport		
Country/Region/City:	UK		

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This is the final report of the interim evaluation of the Transport Direct (TD) programme carried out by AEA technology and TTR Ltd for the Department of Transport during 2006.
Description/method:	The Office of National Statistics (ONS) Omnibus survey was used to monitor awareness and use of Transport Direct and other travel information services. A pop-up questionnaire on the Transport Direct portal was used to understand who is using the portal, what they do as a result of information provided, and the level of user satisfaction. Both before and after the launch of the portal, face-to-face interviews with DfT staff and other stakeholders were held.
Findings/conclusions:	The number of portal user sessions has increased and the programme's target of 10 million cumulative user sessions by 2006 was achieved on 1st December 2006. However, public awareness and use of the Transport Direct portal remained low: only 5-9% of the ONS survey respondents had heard of Transport Direct and only 1-4% had used the service over the preceding six months. It seems that the limited marketing efforts undertaken by the programme have not been successful in raising awareness. Nevertheless, although the number of users has not increased much, a core user base of satisfied users is likely to exist who now use the site more regularly than they did. There are no discernible seasonal trends in the data on awareness and use, with the exception of small increases in usage associated with the holiday season (perhaps due to unfamiliar leisure journeys and/or more checking of public transport timetables). The ONS data

shows that a greater proportion of men than women claim to have heard of TD, however, there is no discernable difference in their usage of the site. Results from the online survey show that slightly more men (53%) than women (47%) responded. ONS data show that the 16-24 age group seems to be most aware of TD, while the online data suggest that most current users are aged between 25-54. The majority of users would use TD to plan a journey for themselves that is unfamiliar and long distance (50% said they were planning a journey between 10 and 100 miles and 34% over 100 miles). Use of the Transport Direct service seems to lead to a modest amount of modal shift from car to public transport of about 5% (and also 5% from public transport to car). Less than half of the users (43%) use TD to plan door-to-door journeys; 46% looked only at trains using short-cut buttons, while 4% viewed only car journeys and 3% looked at coach journeys only. Portal user satisfaction levels appear to be high (especially regarding ease of use and comprehensiveness) , but may be biased positively by the positioning of the pop-up questionnaire on the website. There were lower levels of satisfaction with the speed of the site and the mapping functions. The majority of stakeholders have a very positive view on the TD programme and portal, although there is less consensus on the efficiency and value for money on the portal development.

Strengths/weaknesses:

The results about modal shift need to be interpreted very carefully, due to the small sample size and the fact that intended rather than actual travel behaviour was measured. Otherwise, this report provides valuable insight into the awareness and use of a multimodal online journey planner, supported by empirical data.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

mechanism has been established to rapidly update this integrated picture without the necessity to continually access several systems independently. Also, a third party application (the Strategy Management Function) can be developed to access and harness this data to provide operators with decision making support. An example of Common Data Management Facility is the employment of a web-based Car Park Guidance and Information System that has been extended to include on-street Variable Message Signing by the Norfolk City Council. A second example is the data integration from various discrete sources by Lancashire County Council as part of their Urban Traffic Management and Control programme. The Strategy Management Function enables Lancashire County Council operators to assess the loading on their City road network in the event of incidents on the nearby M6 motorway. Thus, a comprehensive view of traffic conditions is provided in and around Preston. The authors conclude that the advent of Common Data Management Facilities is opening up new horizons and possibilities in the provision of truly integrated travel information based on data from several hitherto discrete data sources.

Strengths/weaknesses:

A short, but clear article that argues the case for Common Data Management Facility.

END

DOCUMENT DETAILS

Compendium ID:	1083	Date of Entry:	2007-06-02
Article title:	Responses to Transit Information among Car Drivers: Regret-based Models and Simulations		
Article reference details	Chorus et al. (2006), Transportation Planning and Technology 29(4), 249-271		
Web Address:			
Source project (if applicable):	PITA		
Contact name:	Casper Chorus		
Affiliation:	Eindhoven University; Delft University		
E-Mail:	c.g.chorus@tue.nl		
Sponsor(s):			
Country/Region/City:	General		

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This paper reviews and develops a regret-based approach to model travellers' choices under uncertainty (see entry 1001 in this compendium for more explanation). The paper try to answer the following: 1) what would be the potential of transit information for mode choice adaptation among those travellers that do not have one or more transit options in their choice set, but generally favour private car? 2) what are the determinants beyond non-habitual car drivers' choices whether or not to acquire available information and consider changing travel mode?
Description/method:	The authors provide a large set of assumptions on travellers' mode choice, inspired from non-transport research and general literature, as well assumptions that are not supported by literature. They develop a theoretical model of travel choice behaviour, and test it by simulation.
Findings/conclusions:	1) Perceived value of acquiring transit information is limited; 2) Even in the case where transit information is acquired, and the message is favourable to transit, its impact on mode choice is limited; 3) conservative estimates regarding the impact of transit information provision on modal shift would be realistic; 4) need for dynamic, rather than static, travel information on transit options

Strengths/weaknesses:

This is a theoretic paper which develops some interesting concepts. The method, based on an abstract model based on a set of unvalidated assumptions, with no laboratory or field study, lead the reviewer to believe that the finding/conclusions should be questioned. [entry #1001 in this compendium provides some empirical evidence to support some of the arguments made in this paper - but due to research limitations concerns have been made on the validity of this paper as well). Moreover, some of them (such as #4 above) are in conflict with the findings of other works. The regret-based model is not compared with other models and its added value is not clear.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

personalised, point to point (enabling the selection of millions of origin and destination pairs, covering a metropolitan area), providing predictive, real-time, and historical travel times. Content will be integrated with routing, location, and navigation systems already being introduced into the market. Such content needs to be deliverable (audio based or visual based) across a range of display devices, generically comprising of out-of-vehicle devices, in-vehicle devices, and personal portable devices. Not only the content but also the requirements of the user requires attention. It will be a challenge to interpret these requirements, since each motorist's knowledge of both traffic and routes is different. The trial participants had never received customised, predicative traveller information before. Initially the majority of participants found the information to be of little value, as they had no previous experience in acting upon information of this type. As the trial progressed, the participating motorists found that they were able to derive value from the daily information they received as they began to interpret this information against a growing history or knowledge of previous traveller information. The most valued information for motorists is dynamic information. The authors conclude that to decide what to tell the motorist (or 'pushing' out the information) or working out how the motorist can select the precise content required (or 'pulling' the information) is the challenge for the content provider.

Strengths/weaknesses:

Overall, this paper provides some interesting insights about the potential evolution of travel information services for motorists and their use.

END

DOCUMENT DETAILS

Compendium ID:	1085	Date of Entry:	2007-06-01
Article title:	Travel Information Services. Wave 8 - 14th to 19th September 2006		
Article reference details	GfK NOP (2006). Travel Information Services. Wave 8 - 14th to 19th September 2006. Department for Transport.		
Web Address:	http://www.transportdirect.gov.uk/research/pdf/0610wave8.pdf		
Source project (if applicable):			
Contact name:	Peter Blackwell		
Affiliation:	GfK NOP		
E-Mail:	peter.blackwell@gfk.com		
Sponsor(s):	Department for Transport		
Country/Region/City:	UK		

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:	This document is part of on-going research that aims to provide more insight into the awareness and behaviour in relation to transport information services in general and Transport Direct in particular.
Description/method:	Since November 2004, every 3 months a representative sample of the national population of approximately 2,000 adults is interviewed face-to-face (using an Omnibus survey) about their awareness and use of various travel information services in general, and Transport Direct in particular.
Findings/conclusions:	Overall, the findings show that little has changed since 2004, except that the actual usage of travel information services continues its trend towards the Internet at the expense of the telephone. More than 80% of the sample was unaware of Traveline, Transport for London, Trainline and Transport Direct, while only half was aware of the telephone service of National Rail and the website of National Express. Nearly half (46%) of the sample had never used any travel information service before, while 28% indicated to have used a phone based service. Amongst Internet users, 40% stated to have ever used a web based service. The National Rail Enquiries phone service is relatively most often used with 22% of the respondents indicating to have ever used it, followed by the AA website with 16%. Only 1% of the sample indicated to have ever used Transport Direct. Travel information services are mostly used for day trips, visiting non-local friends, and holidays. The most useful service from Transport Direct remains unchanged: "Quickest way from A to B" is

still leading the field by a long way, followed by "Cheapest way from A to B". Although online advertising and web search are important sources of advertising for Transport Direct (after television being the most important source), two-thirds of those saying they had seen an advertisement of Transport Direct online were unable to identify on which website they had seen it. Three-quarters of those who saw the online advertisement were not motivated by it to use the Transport Direct website.

Strengths/weaknesses:

This longitudinal research is valuable, because it enables a comparison over time of the awareness and use of various travel information services in the UK.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input checked="" type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

The surveys showed that the percentages of SAGT and car users requiring various types of information rose substantially after the experiment; but levels of interest remained relatively low overall. SAGT users showed interest in highway information and car users in SAGT information. Car users and SAGT commuters who used the information during the experiment changed their travel modes more than those who did not, for both commuting and personal travel, indicating that multi-modal travel information can change travel modes. This reflected views on possible changes expressed at the workshops. Users wanted further information about in-vehicle congestion and transfer time to other transit modes on SAGT and about frozen road sections. Users considered that insufficient promotion of the experiment has occurred to offer full benefits.

Strengths/weaknesses:

The technique of 'social experiment' was valuable in combining research with practical promotion of a service. However the service and the consequential research were limited to one corridor. The participants were not necessarily reflective of the population as a whole, and no assessment was made of this.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input checked="" type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

results show that the most important situation is when arrival time is critical. Respondents found it also important to receive traffic information during bad weather, when stopped in a jam or driving in heavy traffic, and when there is construction en-route. Commercial radio is by far the most useful source of travel information according to the respondents. Variable message signs and television were also reported to be useful in providing roadway information. Only 13% of the sample was aware of the SmarTraveler service, with 81% not knowing that the service existed. Of those aware of SmarTraveler, 24% accessed the web page and 9% accessed the telephone service (which is in terms of the entire sample only 3% and 1% respectively). Those respondents who had used SmarTraveler had a favourable opinion of the information provided.

Strengths/weaknesses:

This study mainly provides descriptive data, rather than giving explanations for travel information use. Its findings should be carefully interpreted, since the sample's median age is relatively high (50 years) and high incomes are over-represented.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input checked="" type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Use of the system grew steadily from the start. 28 % of citizens over 14 years old have used the service at least once, the most active users being 25–34 years old, students and upper officials, and in the highest income group. It is most often used on random trips related to work or free time, but 26 % of the users use it mostly on home-to-work trips. Usage is more popular for areas that often require interchange for travel. With the growing complexity of travel within the metropolitan area, trip information makes public transport travel easier for diverse journeys. 73% of system users now use more information for pre-trip planning, but overall users find they are taking less time to plan trips. Growing use of the system has had little effect on printed information, while telephone enquiry use has dropped by only 10%; both appear to be needed as well.

The system cost 220,000 euros to develop, first year marketing cost 60,000 euros, and operating costs are about 110,000 euros per year at present. Investment plus one year's operation amounts to 1.4 euros per user. Annual benefits are estimated at 5–13 million euros, mostly from more efficient route choice; shifts to public transport and faster route planning provide some benefits. Even allowing for over-estimation of gains by users in surveys, there are very high benefits to society. Related to government policy, these are particularly important for public transport efficiency, but there are benefits too for social sustainability, land use development, the environment, and growth of the information society.

Strengths/weaknesses:

This is a clear description and a comprehensive evaluation of an actual system in a major city, reflecting a combination of professional assessments, user surveys and cost benefit analysis. It offers a defined valuation of the system in terms of impact on the transport system, its users and the wider aims of public policy. The work was done after only one year, and the user surveys were non-random; although the report allows for this. Practical lessons are drawn for system development.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input checked="" type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Based on the sample, the results show that these drivers would prefer that the system should err on the side of reporting too much rather than too little. Despite the existence of considerable individual variation, it seems that most users would be willing to tolerate a rather high percentage of false alarms (about 4/5) in order to obtain nearly complete coverage. This implies that dynamic traffic information and route guidance systems should be designed for timely notifications of delays, even at the cost of some superfluous warnings. Drivers will not always necessarily decide to change their route even on a positive jam message. Since the driver performs a certain level of 'filtering' by himself, the preference is for more rather than less information. The authors conclude that route guidance is a decision support system, rather than a decision-making system.

Strengths/weaknesses:

The methodology section in this paper is not very clearly described, which makes it difficult to assess the results properly. Also, the described tolerance of false alarms seems to be very high (4/5). Nevertheless, the paper deals with the interesting topic of providing the 'right' amount of information to drivers.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input checked="" type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions: - The adequacy of information supplied was graded as "excellent" by 24% of respondents and "good" by 57%."/>

The stakeholder surveys at Lappeenranta and Seinäjoki showed that the local authority and most public transport providers saw positive benefits from the Travel Centres. The Centres were also assessed as proving positive in improving social sustainability, development of communities, and the market share and trip chains carried by public transport. Their impact on the environment and on car traffic was judged neutral.

Strengths/weaknesses:

The report describes the provision of information within the development of integrated interchanges and identifies the initial effects of providing integrated information. It is limited and descriptive in scope.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input checked="" type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

The paper provides useful guidance on the scope for providing pro-active information to travellers on which buses / trains to take in the event of service disruptions and the data processing required. It focuses on the urban network situation.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

EMail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input checked="" type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input checked="" type="checkbox"/>
Context	<input checked="" type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

The main points to emerge from the user evaluation were:

- 86 % of users consider real time information helpful.
- 61 % of regular line 4 users do want information about service delays. 82% of workplace survey respondents want this information, this includes car users.
- Waiting time is perceived as less inconvenient when the correct arrival time is known
- Displays at stops is regarded as the best channel for real time information. Pre booked SMS-warnings or Internet are regarded as less helpful. The SMS-warning service seems to be most helpful to those travelling regularly.
- The surveys showed that users are willing to pay for dynamic travel information but they could not be used to calculate an exact charging rate. But most users object to raising bus fares to meet system costs.
- The new information services complement paper based timetables and other traditional information, they do not replace them.

Strengths/weaknesses:

The system provided was an experimental one. The surveys sought to be comprehensive across the main users and potential users but were non-random; they were not checked for their validity against the general population of the city. Nonetheless this was a well focused experiment and study.

END

DOCUMENT DETAILS

Compendium ID: Date of Entry:

Article title:

Article reference details:

Web Address:

Source project (if applicable):

Contact name:

Affiliation:

E-Mail:

Sponsor(s):

Country/Region/City:

RESEARCH AREAS COVERED

Awareness	<input type="checkbox"/>	Providers	<input type="checkbox"/>
Demand, access and use	<input type="checkbox"/>	Media	<input type="checkbox"/>
Context	<input type="checkbox"/>	Evolution	<input type="checkbox"/>
Content	<input checked="" type="checkbox"/>	Research methods	<input type="checkbox"/>
Behaviour	<input type="checkbox"/>	Other	<input type="checkbox"/>
Delivery	<input type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

and the interface should enable even occasional travellers to plan a trip. Furthermore, reliable information should be given, travel alternatives should be presented in an orderly, personalised way, and reducible advices should be given (so the traveller will understand which of his or her preferences led to the presented advice). Finally, for the traveller it is important to know how real-time traffic is affecting his or her travel plans. Therefore, the new mobility service should provide real-time information, in addition to an up-to-date travel advice. In order to do so, information is needed about the current position of the traveller (or his vehicle) and the real-time traffic situation. This information is collected, processed, and provided by traffic centres. Currently, if any real-time information on traffic jams is given during the trip, most services are not yet able to recalculate the travel plan and adjust the time of arrival or duration of the trip. Also, although several mobility services can provide personal, door-to-door information, this information is predominantly static and not adjusted to the real-time situation. Slow private transport (e.g., walking, cycling) is underrepresented in contemporary mobility services. Only a small portion of the mobility services also offers reservation and payment options in addition to informing and advising the traveller. Most existing services are focused on only one modality, and offer static information that can only be used pre-trip. The authors conclude that the current mobility services only partly meet the needs of the traveller.

Strengths/weaknesses:

The list of researched mobility services is rather outdated, which shows the dynamic developments in the field of travel information provision. Although the approach seems at some points simplistic compared to reality ("fill existing voids by creating new services"), it nevertheless provides some clear criteria that personalized travel information services could try to meet.

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Delivery	<input checked="" type="checkbox"/>		

TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Strengths/weaknesses:

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

valuing of, information appears to depend on the trip purpose, the driver's experience with processing information, and with his or her experience driving a given route. The knowledge and expertise of an individual driver is not uniform across all journeys undertaken and therefore the driver's requirements of traveller information also vary. Respondents supplemented their own experiences and knowledge by asking for ideas and seeking advice from friends, relatives, or workplace colleagues. Drivers learn within the context of their journeys as well as between contexts. They learn through trial and error and they learn in social settings from other people including other drivers. Experienced drivers utilise traveller information quite critically: they reflect on the new information and integrate it into their existing framework with a personalised meaning attached. Commuter drivers presented with dynamic, customised traveller information enter a learning curve affected by previous experience and immediate need where learning to access and utilise appropriate travel data is a dynamic process. The progression of drivers along a new learning curve in response to the provision of traveller information results in their subsequently wanting slightly different information. Design of an effective traveller information system necessitates the targeted provision of information, sensitive to evolving driver capacity. The authors conclude that customised traveller information will become effective when it meets the current understanding and needs of the driver as an active learner whose information requirements change over time and from time to time.

Strengths/weaknesses:

This is one of the few qualitative approaches towards understanding travel information provision. Although it provides some interesting insights, it is not always clear to what extent these can be attributed to the interview data. Also, the number of interviews that have been conducted is not stated in the paper. However, many quotes of what the respondents said are given in the paper.

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

89% of respondents thought showing Travel Time and Delay Time messages on VMS on motorways across England was a good idea. Travel Time messages were seen as a good idea because they keep drivers informed (56%), help avoid delays (15%), give advanced warning drivers to problem (10%), and allow more accurate journey planning (7%). Both Travel Time and Delay Time messages were thought to be easy to read (95% and 97% respectively), easy to understand (96%) and useful (82% and 91% respectively). 67% of drivers (especially 17-34 age group and business travellers) welcomed Delay Time messages as indicating congestion, 51% thought the same of Travel Time message (suggesting that they do not appreciate the purpose of these signs). 72% of respondents had seen a Travel Time message and/or 29% had seen a Delay Time message on the journey they were making. 12% said they were going to take action as a result of the information shown: taking an alternative route or making a longer stop at the MSA. The main reason for not taking any action was because there was no disruption to their chosen route at the time (78%). 44% of respondents thought the time displayed on the VMS was accurate, 39% did not know. Only 9% of those that had seen the Travel Time and Delay Time message thought the time given was inaccurate. Respondents showed a clear preference for Travel Time and Delay Time messages being shown on VMS

Strengths/weaknesses:

The research provides a sound picture of attitudes and experiences of drivers related to the provision of VMS information, including scope for improving their effectiveness for users.

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

The results show that with the provision of real-time travel information the overall travel environment can be improved. With decreasing the update time interval the traffic volume decreases as compared to traffic volume for the base case (no provision of travel information). The mode switching from car to transit escalates when the travel time via car increases. Such a switching phenomenon decreases the travel demand and reduces the number of cars in the transportation network. At a certain stage, the travel time via car reduces to a level where its utility increases and the commuters again switch from transit to car. This scenario once again increases the travel time on different routes. According to the authors, such a cyclic behaviour keeps on toggling the mode switching propensity between car and transit modes of transport and improves the overall network performance. If travel updates are provided more frequently the performance of the transportation system can be further improved.

Strengths/weaknesses:

The underlying utility maximization principle of the model raises the question to what extent people really will consider changing transport modes as the model predicts they will.

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

preferable. Therefore an MNL model was estimated to serve as a base reference model, and the resulting coefficients were compared to those for an ML model.

Findings/conclusions:

The main findings were that:

- travellers are indifferent as to whether information is supplied at their initiative or that of the provider
- travellers do value information, but the utility is low when they have no interchange, higher when they are interchanging to a frequent service, and very high when interchanging to an infrequent service
- a service offering both times and advice is preferred to one offering times only, especially when interchanging to a low frequency connection
- a high utility is ascribed to a service providing more precise information

The results also showed that utility to travellers decreases rapidly as the price of information provision rises, which poses a serious question over who might provide the information and why; it may not have commercial value but it could still prove valuable as part of a process to bring about modal change to public transport.

Strengths/weaknesses:

The survey and the analysis of results generate some useful but not unexpected results for the most part. However, they are based on a relatively small non-random sample.

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary planning Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Compared to non-users, traveller information users had lower commute disutility. They had fewer late arrivals at their destinations, and had fewer instances when their trip expectation prior to trip start did not match their actual trip experience. Also, they had fewer instances when at intermediate waypoints along a trip they felt they were falling behind schedule. On more than 65% of the trips, they modified their trip start times or took alternate routes. This may have resulted in some disutility due to changes to the regular commute behaviour, but they are more informed and therefore, more confident of the potential trip outcome than a non-user. Non-users had more than twice the number of late or (very) early arrivals than the other two commuters. Overall, ATIS users had lower commute disutility than radio listeners. Due to imprecise, qualitative advisory information, the radio listener was five times more likely to be late than the ATIS user during the AM peak and twice as likely to be late in the PM peak. Radio traffic advisories were less effective in reducing commute disutility than a service offering precise information, such as route-specific travel time estimates. According to the authors, their study demonstrates that the critical benefit of traveller information is to allow users the ability to adapt to variability in traffic, which in turn reduces the number of instances when commuters are uncertain of their trip outcome.

Strengths/weaknesses:

This is a thorough study, but the question remains how accurately the obtained results of this simulation would reflect reality.

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Average perceived wait time was 6.3 minutes in the before survey, 5.0 minutes in the after survey; actual schedules for the period varied 10% around a 10 minute headway, giving actual average wait time of 4.5-5.5 minutes. The at-stop displays, complemented by SMS messaging, appear to have users more scope to adjust their arrival time at the stop; they may also have felt more in control. The perceived time saving, 1.3 minutes per trip, could have material benefits in terms of (small) increases in passengers and also accountable cost-benefit gains.

The average score for security (out of 1-10) was 7.9 before and 7.6 after; i.e. perceived security fell slightly. The scores for ease of use of the line did not change between the two surveys. (These may have been affected by the format of the questions.)

There was a strong preference for the real time information displays being placed at right angles to the tracks; and for such displays being outside the shelter rather than inside. 79% looked at the stop displays (but 21% did not). 57% considered the information accurate, but 27% said that the tram was often later than shown.

The results of the second after test generally confirmed the findings of the first after test. The experience of security and ease of use remained constant over time. However, the perceived waiting time decreased, while more people looked at the displays.

Strengths/weaknesses:

The research assessed the experiences and views of travellers by a specific tram line against aspects of behaviour identified in previous research and draws conclusions for future provision based on users' behaviour and perceptions. It also relates these to wider aspects, such as the value in cost benefit terms. It is not clear how far all its findings would be fully applicable to other routes in The Hague or elsewhere.

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

Real time information provision has grown steadily from early days in the 1970s. Most people (between 70% and 100%) look at displays. A number of beneficial effects have been identified:

- Perceived waiting times are reduced, sometime by a significant margin.
- Positive psychological effects are engendered, including an increased feeling of security, reduced uncertainty and stress, and increased ease of use of the system.
- There is an increased willingness to pay for information, or at least to accept a ticket pricing element for it, equal to about 5%-20% of the journey ticket price.
- Travel behaviour is adjusted to match advised running times (e.g. people use a wait interval to shop) or to alter the intended route (where possible), reducing disutility from the journey.
- Some travellers, especially younger more mobile people, switch to public transport as it is seen to be more convenient. The scale is perhaps small but significant.
- High levels of satisfaction with public transport are generated.
- Public transport has a much better image, leading to widespread public satisfaction.

Applying the framework to two studies into provision of real time information showed how clear values of effects could be established. On a tram line in The Hague the effects demonstrated higher benefits for the investment than would have been gained by putting it into operating more trams. On the Stockholm subway it reduced the number of people running.

Information provision forms a valuable component of passenger travel quality; quality is vital in any service industry, and customers will expect continual improvements. Provision will need to vary according to scale and nature of the transport system. The effects depend on passenger behaviour and thus well focused research and development of systems are essential.

Strengths/weaknesses:

The paper provides a valuable review of the topic, moving through historical development to identify the key benefits and establish an assessment framework. It pulls together results from a range of research studies, including specific values for some effects.

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TRAVEL MODE(S)

Car Public transport Walk/cycle

INFORMATION USE

Mode choice Route choice Itinerary plannin Real-time

KEY INFORMATION

Objectives:

Description/method:

Findings/conclusions:

A mental representation of an unknown public transport system developed very fast in the first days. The picture became more detailed over time but also better developed on a larger scale beyond the well-known corridor used by the subject every day. The metro (T-bana) formed the backbone, an aid to orientation. Route and line numbers were less important, the main factor was the ability to make connections. Key interchange nodes were very important: the subject knew much about travel options to and from frequently used nodes. The geographical background is probably less important as more is learnt about the urban area and the transport system.

During the first week the subject gathered various maps – metro and bus route plans, city maps with public transport on and used them carefully. By three weeks she was starting to memorize the main nodes and metro lines. By seven weeks she was becoming quite confident and no longer planned her trips so carefully, relying more on posted timetables at key nodes through which she travelled. But even by the end she still followed the same basic process: first, look in the map to ascertain where she was and where the destination was located; second, decide how to get there.

From the start the subject tried to focus on two aspects: the final destination and the name of the stop to get off at. The metro lines were easier but with bus routes it was often difficult to identify where she was; the large number of bus routes added to problems, especially when interchanging. After four weeks her daily trip between residence and university had become habit and by seven weeks she was more comfortable travelling round the system. By then she sought to arrive as close to the destination as possible, often by using a bus. However, bus travel remained stressful even after ten weeks.

At first travel by public transport was very challenging but by three weeks the subject felt very happy about her growing ability to get around. Once she had a good understanding of the metro and bus services, her knowledge of the city's geography continued to develop. By the end of ten weeks she felt that she had a sound grasp of the whole city in spatial terms.

Overall the greatest learning occurred in the first week or so. Between the second and sixth weeks knowledge and experience was built up, although there was still some uncertainty and errors. By the tenth week the subject felt competent and confident, and each new trip added to understanding and ability.

The subject's detailed experiences also showed up where key weaknesses exist in provision of Stockholm's public transport services, facilities and information related to the needs of passengers for convenient travel.

Strengths/weaknesses:

The research provides a valuable in-depth exploration and explanation of the process of acquiring information on a public transport system. It links these to other research findings and to practical aspects of public transport provision. However, it is based on only one intelligent and suitably educated subject, within an integrated high density city system; abilities and even processes for such learning might vary widely across the population by person type and also by type of public transport provision.

END

