



Train punctuality: the passenger perspective

November 2015

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Foreword

The process to determine what Britain's railways should deliver in the five years from 2019 is already underway. It is vital that passengers' views are at the heart of the process – and with passengers paying over 60 per cent of the cost of the railway through fares, their views must count in decisions on how rail service improvements and investments are prioritised.

As part of this push to give more weight in the process to passengers' perspectives, Transport Focus and the Office of Rail and Road (ORR) have co-funded two studies to understand more about passengers' views on train punctuality. The first is new qualitative research into views about train performance – punctuality and cancellations – and how it should be measured. The second is a quantitative analysis of the relationship between a passenger's actual punctuality and their satisfaction with the journey in question.

The research involved 10 focus groups across England, Scotland and Wales in March 2015 (taking place in Cardiff, Glasgow, London and Manchester). The passengers taking part reflected a cross-section of age, gender and socio-demographics, as well as different segments of the rail market. Meanwhile the quantitative analysis looked at the relationship between actual punctuality experienced and how satisfied 10,849 Abellio Greater Anglia passengers were when they took part in

the National Rail Passenger Survey (NRPS) between 2012 and 2014. It is clear from both studies that greater focus on punctuality will be needed to deliver what passengers expect in the five years from 2019 (railway Control Period 6, or CP6). The key findings of the two studies are set out below, followed by the conclusions and recommendations that Transport Focus and ORR each draw from them.

We hope that this report will help support the process of determining the Control Period 6 passenger performance targets and ensuring that they focus on passengers' needs.



Anthony Smith
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Chief Executive
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Key findings from the passenger research

The full research report by Illuminas is included in this document as section 5. The key findings are:

- Passengers in the focus groups saw a punctual service as the key success criterion for their journey. They saw performance measurement as an important part of ensuring that rail companies focus sufficiently on punctuality. Punctuality is a vital prerequisite for building trust between passengers and a train company.
- In general, passengers want a tougher Public Performance Measure (PPM) target, but feel that the Cancellations and Significant Lateness (CaSL) target is more reasonable. Once made aware of how PPM is calculated, passengers often regarded a very high target as not unreasonable – given the five minutes ‘grace’ (10 minutes for long-distance trains) for a train to be considered ‘on time’ by the industry. The passengers also suspected that the current target level of 92.5 per cent is regarded as a ceiling rather than a minimum. Some argued that an industry focused on its customers should always aim to deliver 100 per cent, even if it is never achieved.
- Some passengers suggested that a ‘significantly late’ train should be 10 minutes for short-distance and 20 minutes for long-distance, which is a tighter definition than the 30 minutes currently used by the industry. For some, combining

cancellations and significant lateness was confusing.

Passengers in the Glasgow groups could not understand why there is no CaSL target in Scotland.

- Passengers in the focus groups defined ‘on time’ as being within one minute of scheduled time, although some would accept leeway of one or two minutes. The passengers believed punctuality should be measured at all stations, not just where a train terminates. There was low awareness of the current performance measures and lack of trust in how the rail industry measures punctuality. Once aware of how PPM is calculated, the passengers felt it offered the rail industry too much flexibility in meeting targets they already regarded as too low; it also confirmed their suspicions about statistics generally, in that a train that is late can count as ‘on time’.
- The research explored if it would be better to measure the proportion of passengers who arrive on time, rather than the proportion of trains that are on time. Some commuters in the focus groups found this attractive, recognising that there would be greater incentive for train companies to run their trains punctually. On balance, however, passengers in the focus groups felt that all trains should count equally towards punctuality targets. There was a strong view that passengers travelling on a lightly-loaded train should not be treated as less important when it comes to focus on punctuality.





Trade-offs

Various ‘trade-offs’, described below, were explored in the research. Significantly, passengers in the focus groups felt that if the railway is properly-planned, properly-maintained and properly-run it should not be necessary to make trade-offs between the quality of different aspects of their journey. Many passengers felt that not striving to deliver on all fronts is an example of the customers interest being insufficiently to the fore of rail industry thinking. Three key points emerged:

- Punctuality versus speed and frequency. Overall, the preference expressed was for trains to be more punctual rather than faster or more frequent. There were exceptions: on very long-distance trips journey time reduction is important, as is frequency to some leisure passengers.
- Punctuality versus fewer cancellations and days of widespread disruption. Commuters regarded punctuality as the priority because it affects them twice a day every day, whereas leisure and business passengers felt that a short delay has less impact on them than a cancellation.
- Punctuality versus running an extra train. Most saw punctuality as more important than seeking to run an extra train. This was particularly true of commuters, unless they experienced crowding that prevented them from getting on the train at all.

Other findings

- Many passengers taking part in the research felt it is not acceptable for train companies to add extra time into the timetable on approach to the destination station. Those who thought managing expectations in this way was acceptable often observed that it would be more honest if the extra time was distributed throughout the journey.
- On very high frequency routes, for example with 10 trains per hour or more, the idea of measuring the interval between trains (rather than measuring each train at its destination) found favour with most passengers. However some still felt that trains should be measured against the timetable even in these circumstances.
- Passengers in the research favoured the current approach by some train companies of adjusting the timetable in the autumn leaf-fall season to deliver a predictable, reliable service, even if journey times are slightly extended.
- There was strong opposition to the current practice that a train cancelled before 22:00 the day before does not count as a cancellation in official statistics.

Passengers were presented with what some regarded as a tricky dilemma. Namely, whether – on a day of widespread disruption – the rail industry should seek to reinstate the normal timetable as quickly as possible, even if there is short-term disadvantage to some passengers as a result. The sort of things that might be done include: trains missing out stations so the next journey runs on time; cancelling a train so the next one runs on time; and terminating trains before the normal destination so most of the next trip runs on time. While the effect of the focus group environment may have influenced the responses given in front of peers, many participants felt it was fairer to ‘spread the pain’ than cause disadvantage to some for the ‘greater good’. However, passengers in London felt that short-term disruption to restore the timetable was reasonable because alternatives are more likely to exist for those affected.

Key findings from analysis of the relationship between punctuality and passenger satisfaction

The executive summary of the report by consultants GHD is included as section 6.

This analysis updated work Transport Focus published in 2010¹ examining the relationship between actual train performance and passenger satisfaction. The 2015 work looked at the actual punctuality experienced by 10,849 Abellio Greater Anglia passengers who took part in the National Rail Passenger Survey (NRPS) between 2012 and 2014. We are grateful to Abellio Greater Anglia for their co-operation in providing detailed train performance information for the three years in question.

The key findings are:

- 82 per cent of passengers were satisfied with punctuality when their train arrived early or within 59 seconds of the time given in the public timetable. This varies by journey purpose: 75 per cent of commuters were satisfied with punctuality when on time or early, while 94 per cent of leisure passengers and 91 per cent of business passengers were satisfied with punctuality when on time. A possible reason for the variation is that commuters' assessment of punctuality 'today' is affected by past experience – and, put simply, commuters have more 'past experience' than leisure and business passengers. The effect of cancellations may also have a marginal effect. For example where a passenger's intended train is cancelled and they catch the next one – the passenger is late but the train they travelled on is on time.
- For every minute of lateness (that is, after scheduled arrival time), passenger satisfaction *with punctuality* declined by three percentage points. This also varies by journey purpose: commuter satisfaction declined by five percentage points per minute of lateness, while among leisure passengers the decline was one percentage point per minute. Therefore a significant degree of passenger satisfaction is 'lost' when trains are officially 'on time' according to the industry measure of PPM, but late in passengers' eyes. For example, passengers travelling on a train

that arrives four minutes 59 seconds late – 'on time' according to PPM – will record satisfaction with punctuality over 12 percentage points lower than had that train been truly on time.

- For every minute of lateness, *overall* satisfaction declines by one and a half percentage points. Among commuters the decline in overall satisfaction is steeper at three percentage points per minute of lateness. Therefore *overall* satisfaction on a train that is four minutes 59 seconds late – that is, on time according to PPM – will have fallen by over six percentage points.
- On trains leaving London (where the majority of passengers are likely to get off before the train's terminating station), 56 per cent of passengers arrived at their station on time or early. This compares with 69 per cent of trains reaching their destination on time.



¹What passengers want – Towards a 'right time' East Anglian railway
<http://www.transportfocus.org.uk/research/publications/what-passengers-want-towards-a-right-time-east-anglian-railway>

Transport Focus

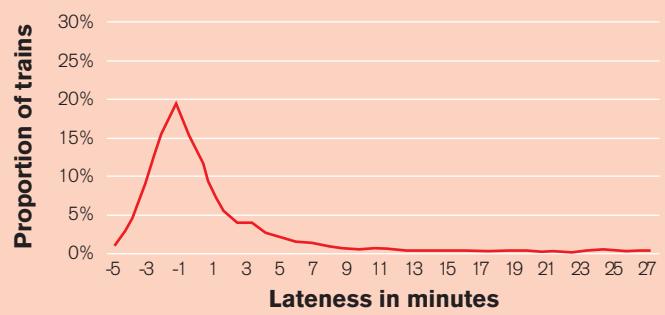
conclusions and recommendations

The overall conclusion Transport Focus draws from this research and analysis is that a key strategic focus for Control Period 6 must be on delivering a railway that is markedly more punctual than at present. That is, markedly more punctual in the way passengers understand punctuality – on time to within a minute of the timetable ('right time', as the rail industry calls it). Unless an incident is specifically disrupting the service, passengers should arrive 'right time' significantly more often than now wherever they get off. Trains which never run on time, or which are late more often than not, must become a thing of the past. And we note that it can be done: Arriva Trains Wales, Chiltern Railways and c2c regularly achieve a 'right time' arrival score of over 80 per cent.

The research shows that passengers want a robust, dependable timetable so they arrive on time at their destination. It appears that passengers – particularly commuters – are more interested in arriving punctually than in how long the journey takes or in the industry striving to run extra trains. There are exceptions: there is appetite for reduced journey time on very long-distance trips; for having more trains on routes with low frequencies; and for extra trains among commuters who struggle just to get on the train – never mind getting a seat. It should be kept in mind that this is qualitative research, but it suggests that passengers do not want a 'fudge' where the timetable just about works on paper, but rarely if ever in practice. This should be explored further in quantitative research.

It is clear that punctuality measured by the Public Performance Measure (PPM) does not accurately reflect passengers' experience, mainly because of the five or 10 minute leeway and because trains are measured only at their destination. PPM also undermines trust: counting trains as on time when they are late plays badly to passengers, many of whom are already suspicious of statistics from their train company. Transport Focus therefore advocates a move away from PPM as the single regulatory measure of train punctuality. Continuing for another five years with a regime where late is considered 'OK' is simply not tenable. But Transport Focus recognises that moving instead to a single pass/fail measure of 'arrival within 59 seconds' could have unintended consequences. Might the answer be targets to encourage movement of the whole 'arrivals curve' (example below) to the left on the graph, incentivising better 'right time' performance, but also giving incentives to achieve a three minute delay rather than a four minute delay, or a nine minute delay rather than an 11 minute delay and so on?

Example of an 'arrivals curve'



The industry needs to determine how punctuality should be measured at intermediate stations and then reflected in the regulatory targets. A new metric could try to combine punctuality at destination with that at some or all intermediate stations. It would be more difficult to explain, but it might focus attention on what really matters to passengers. If accompanied by complete transparency about performance, passengers would still be able to see how their trains performed, but the metric would be difficult to explain to passengers and staff – potentially limiting its effectiveness as a tool to drive improvement.

Control Period 6 should seek to deliver better punctuality for commuters – but not at the expense of giving train companies less incentive to run off-peak trains on time. The fact that poor peak punctuality can currently be off-set by good off-peak performance *should* be addressed, but not by creating the opposite problem. Would setting a target for peak trains, as well as for the timetable as a whole, be a way to increase focus on trains carrying a large numbers of commuters, without risking perverse incentives elsewhere?

A single pass/fail measure does not paint a full picture. A train with a 'right time' record of zero might arrive within two minutes on every occasion - but equally it might always be nine minutes late. It should therefore be made easy for a passenger to see a graduated picture of how often their train is 'right time', arrives within two minutes, three minutes, four minutes and so on. This would give a richer, more rounded view of train punctuality to both passengers and commentators.

The definition of 'significant lateness' within the Cancellations and Significant Lateness (CaSL) measure should be reviewed for Control Period 6. To passengers, particularly those making short journeys, a train becomes significantly late after less than 30 minutes delay. Separately, the target for CaSL should be reduced further for long-distance operators. Passengers making long-distance leisure and business trips said cancellations cause them more trouble than late running, yet the target for Virgin Trains (that is, Intercity West Coast) and Virgin Trains East Coast is more forgiving than for other operators. A CaSL target should also be considered for Scotland.

The industry should consider how underlying punctuality can be measured and better understood – that is, on days when there have been no specific incidents. Perhaps this could be achieved by tracking 'right time' performance on the nine best days in every 10 (with the least good removed)? Or perhaps by tracking 'right time' punctuality on days when there are very few cancellations or significantly late trains (as a proxy for the absence of disruption)?

Finally, in looking forward to 2019 the industry should consider if the level of punctuality required by previous High Level Output Specifications has been insufficiently ambitious to drive radical thinking and innovation. If the governments and regulator were to seek substantially higher performance in Control Period 6 and beyond, could it be the catalyst for fundamental change that would ultimately lead to exceptionally high levels of punctuality and highly efficient use of track, station and fleet capacity?



Summary

- When it comes to performance, a main objective for 2019-2024 should be to markedly improve true 'on time' punctuality across the rail network, including at intermediate stations. That means robust timetables that are neither overly heroic nor excessively padded. It means accurate sectional running times and accurate station dwell times.
- Transport Focus advocates a move away from PPM as the sole measure of success. It is not trusted by passengers and does not drive sufficient focus on punctuality as passengers define it.
- Whatever replaces PPM must strongly incentivise 'right time' punctuality, but seek to avoid unintended consequences of having a different, more demanding, sole measure of success. The industry should investigate if targets could be developed that would incentivise better performance *generally*, including 'right time'. How can the industry be incentivised in Control Period 6 to move the whole 'arrivals curve' to the left on the graph?
- Whatever the chosen metric, there should be a separate punctuality target for peak services to incentivise the industry to get commuters to and from work on time. Given passengers' concerns about reducing the incentive to run off-peak trains on time, this is preferable to weighting trains by volume of passengers within punctuality statistics.
- To give a more meaningful picture of punctuality, the industry should make it easy for passengers to see a graduated picture of how often their train (or group of trains) is 'right time', within two minutes, three minutes, four minutes and so on.
- The industry must become properly transparent and granular with all performance information – and through the 'front door' via train company websites and apps. If a passenger uses only the '07:29' and the '18:17', data for those trains alone should be readily available to them. The industry did not respond effectively to recommendations following research in 2013² (funded jointly by Transport Focus, ORR and National Rail Enquiries) and it should now do so.
- There should be a review of the Cancellations and Significant Lateness (CaSL) measure and targets with a view to: reducing the definition of 'significant lateness', particularly for short-distance journeys; further tightening the target for long-distance train companies; and Transport Scotland should consider specifying a CaSL measure in Control Period 6.
- The industry should tackle causes of distrust in statistics by: eliminating differences between the public timetable and the working timetable; reforming the system whereby cancellations made before 22:00 the day before do not count as cancellations in statistics; and being transparent about the number of days on which a formal amended timetable (one involving fewer trains running than normal) operated and about the number of trains involved.

Office of Rail and Road

conclusions

As the regulator for rail in Great Britain, we want to ensure that passengers are at the heart of Britain's railways and we are keen to see improvements in the levels of punctuality and reliability for passengers achieved by the industry to the greatest extent possible with the funding available. These studies are an important starting point as part of our preparations for Control Period 6 (CP6).

The qualitative study reflects the views of 80 passengers using the rail network. Their views provide us and the industry with a valuable insight into the priorities of different passenger groups, their level of awareness of performance targets and how they understand and interpret the existing performance measures. The quantitative analysis is useful in helping the industry better understand the real relationship between actual train performance and passenger satisfaction, although it must be noted that the results for Abellio Greater Anglia passengers may not be reflective of all train passengers, especially those using different types of services, e.g. long distance.

ORR is working to get the best deal for passenger and taxpayers. ORR's role is to create incentives and set targets for passenger

punctuality and reliability that reflect the interests of both government and the passenger (and recognising also the role of freight operators). We must develop a framework that genuinely encourages Network Rail and the industry to deliver improvements in punctuality, and which also aligns the objectives of train operators and Network Rail.

We are pleased that the industry National Task Force (NTF) is leading a review of the existing measures and generating alternative options for CP6 and that it has found these studies useful in that process. We would like the industry to deliver an outcome that provides the industry with measures which drive the right behaviours, which government would feel comfortable using for setting its high level targets for the industry and for its train operator franchises, and which we could then also use to set the regulatory targets for holding Network Rail to account.

We particularly welcome that the industry has taken on board the need to provide passengers with more accessible and transparent information about punctuality. The National Task Force has endorsed a "My Journey" work stream to make additional information available



to passengers about the reliability of their individual journeys. We will monitor progress with this work.

Before introduction of any new industry punctuality and reliability measure, there are a range of options and features now under discussion, in part informed by these studies and also from industry discussion and debate. This includes measurement to ‘right time’ (arrival within one minute of scheduled time), measurement at every station, use of banding, and some sort of passenger weighting. We consider that it is likely that we will need to achieve a balance of these desirable features across a small number of measures, rather than seeking to achieve one single measure which reflects all the features identified.

The assessment by the industry, by government, and by us of any potential new industry measures must be a carefully considered one and so we do not propose to make recommendations as to particular measures at this stage. We particularly want to understand how any new measure would translate into management behaviour in the day to day operation of the railway, and also in how the railway is planned

and timetabled, so that any unwanted outcomes are avoided. For example a ‘right time’ measure has the potential to result in extended journey times as a result of longer station dwell times to enable greater volumes and different types of passengers to get on and off the train. We must take into account the impact of any changes to passenger punctuality measures on the freight market (and vice versa).

There is merit in continuing to measure PPM for comparison and continuity purposes, as this is a measure that has been in place for a number of years. New measures, which may help the industry address the issues raised by these studies, could require improvements in technology (or the availability or distribution of technology on the network). We believe we must not be limited by the current technology but set the industry on a path that enables the important new technology on the horizon, such as GPS train fitment and smart ticketing, to be utilized to further improve measures over time.

We are acutely aware that there is a very difficult balance to strike between a comprehensive measure that captures all elements of punctuality and one that is transparent and easy for users to understand.

The NTF is leading an industry trial of a selection of new measures over the coming months, and we are eager to see the outcome of this trial. We consider that there needs to be flexibility to develop a strong set of measures that would meet the criteria set out above. We do not consider it necessary to wait until the next Control Period to implement a new measure or set of measures.

In terms of next steps, we will continue to engage with the NTF workstream, while developing our views on what the regulated outputs will be. This will inform our initial Periodic Review 2018 (PR18) consultation early in 2016, and wider consultation which we intend to carry out in relation to outputs around that time.

We look forward to continuing to work with the industry to develop proposals in this area.



Punctuality performance measurement

Research Debrief

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Background, objectives and methodology

Background



- Train performance in Britain is subject to a number of quality service targets covering a range of aspects of the service which the railways provide
- These targets are set by a process involving the Office of Rail and Road (ORR), the rail industry itself and the Westminster and Edinburgh governments. These bodies are about to begin a review process that will lead to the production of a set of High Level Output Specifications that will include targets for train performance from 2019 to 2024
- To help inform the development of these targets, Transport Focus and the ORR have commissioned research to ensure that passengers' priorities for train performance are clearly understood and inform the above process

Objectives



- The objectives of the research are to establish what passengers know about rail performance measurement and to identify their aspirations for how (and what elements of) performance should be measured in the future
- Key objectives for the research are to understand:
 - How passengers judge train companies' 'performance'
 - Passengers' experience of disruption including delays, cancellations, diversions, short-formations, etc
 - How these experiences translate into passengers' assessment of the railway's 'performance'
 - Passengers' knowledge and understanding of how performance is currently measured officially
 - Passengers' understanding of and reactions to the Public Performance Measure and the general concept of 'lateness'
- Passengers' understanding of and reactions to the Cancellations and Significant Lateness Measure
 - The extent to which passengers understand and are prepared to make allowances for the inter-relationship of service frequency, journey time (speed), capacity (availability of seats) and performance
 - Interest amongst passengers in having official performance measures published and available for public scrutiny
- Differences in understanding and expectations by passenger type, journey purpose, journey distance, service frequency, etc
 - The impact of poor performance on passengers' trust in the railways and/or specific Train Operating Companies (TOC)
 - What criteria should form the basis of any quantitative assessment of passenger perceptions of TOC performance.

Methodology

- Ten qualitative focus groups were conducted across four locations:
 - London
 - Derby
 - Glasgow
 - Cardiff
- Four focus groups were conducted in London and two in each of the other locations:
 - Two of the groups in London sampled Abellio Greater Anglia passengers only. This was so that the findings of these groups can be considered alongside a separate study that Transport Focus and ORR have commissioned looking at the impact of actual delay experienced by passengers on how they answer particular National Rail Passenger Survey questions. For that exercise Abellio Greater Anglia has been used as a case study.
 - Each focus group contained eight respondents who used the train for either commuting or business/leisure purposes
 - Respondents were also categorised by age and socio-demographics.

Group discussion programme



- The focus group discussion programme is detailed below:

LOCATION	DEMOGRAPHICS & TRAIN USAGE	TRAIN USAGE
London	Younger, C1C2D	Commuter
	Older, ABC1	Business/Leisure
London (Abellio Greater Anglia passengers)	Younger, ABC1	Business/Leisure
	Older, C1C2D	Commuter
Manchester	Younger, C1C2D	Business/Leisure
	Older, ABC1	Commuter
Cardiff	Younger, ABC1	Commuter
	Older, C1C2D	Business/Leisure
Glasgow	Younger, C1C2D	Commuter
	Older, ABC1	Business/Leisure

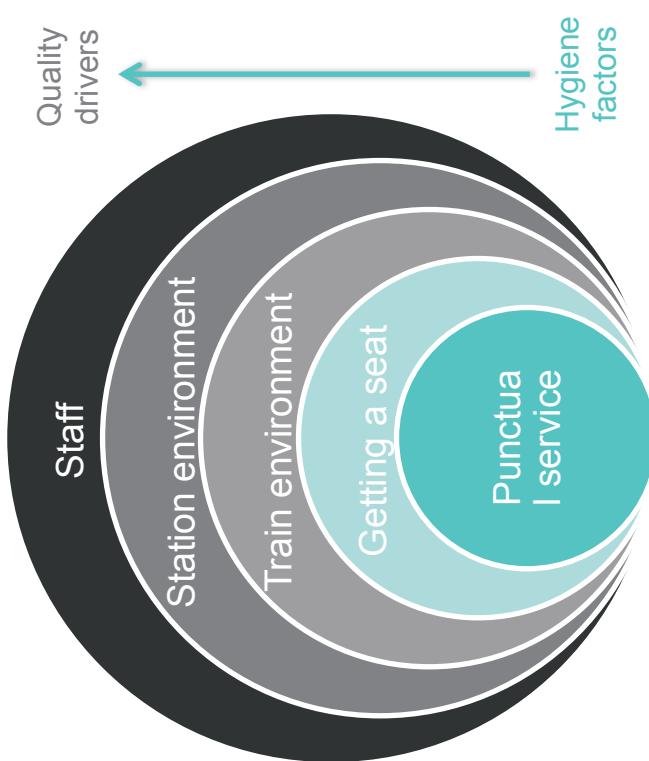
- Focus groups took place weeks commencing 9 and 16 March 2015.



Passengers' top of mind
views on train performance

What makes for a “successful” journey?

- Reliability is passengers' *minimum* requirement from their train service
- Passengers define reliability primarily in terms of punctuality and secondarily in terms of not being cancelled or disrupted (reflecting the frequency with which these issues are typically experienced)



- Other than a reliable service, a range of additional factors inform passengers' assessment of what makes for a successful journey
 - These factors, such as getting a seat as well as a clean and safe environment on the train and at the station, can enhance the extent to which the journey is rated positively
 - But these factors alone (i.e. in the absence of a punctual service) will not result in a successful journey

- The importance of these factors of course varies by journey type
 - For example on a longer distance business/leisure journey, getting a seat is almost expected and the lack of it can severely influence satisfaction
 - However, on a shorter commuter trip in peak hours passengers do not necessarily expect to get a seat, so getting one can create considerable delight.



Experience of delays, disruption and cancellations is mixed

- Overall, passengers' satisfaction with the level of delay, disruption and cancellations is not especially poor
- However, experiences do vary by passenger type

COMMUTER

- Delays tend to be minor but frequent
 - For example, 2-3 minute delays several times per week
- Few cancellations, but short formations not uncommon
- NB: Due to the group environment an element of over claim may exist*

BUSINESS/LEISURE

- Delays, cancellations and disruption are rare
 - Most can recall at least one "horror story" of a journey, though this was not necessarily recent

RURAL LINES

- Delays and cancellations occur more often during 'bad' weather
- Instances of trains not stopping at scheduled stations
- Weekend service often non-existent or reduced in frequency

GLASGOW

- Passengers in Glasgow feel the number of minor delays and cancellations is high and that the service is inferior compared with other parts of Britain
 - Long delays are rare, with trains either 2-3 minutes late or cancelled outright
- NB: other Transport Focus research in Scotland showed a belief that ScotRail is too cautious and inclined to cancel services at the 'first sign of a snowflake'*

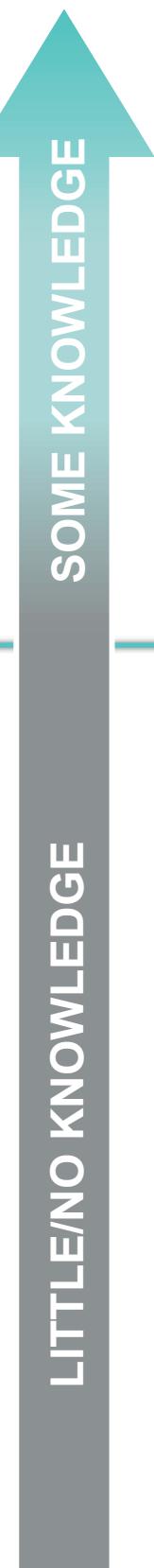
"The board will say that the train is delayed by three minutes, and then it will just change to cancelled, there is nothing in between."

Glasgow group, Commuter, Younger



Limited knowledge of how performance is *actually* measured

- Passengers assume that performance is measured primarily in terms of punctuality, although they have no definitive knowledge of this
- Most struggle to recall having heard or seen anything about performance measurement

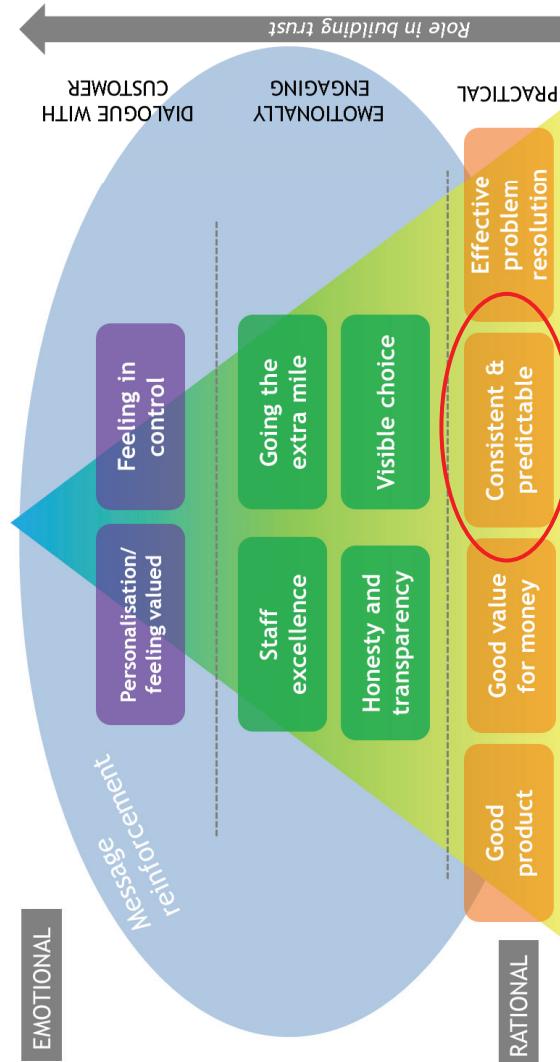


- Refer to/make comment on media stories e.g.:
 - Kings Cross Christmas debacle
 - Southern commuter service from Brighton to Victoria that was 'late every day'
- Some mentions of posters in rail stations showing 'numbers of some sort' about punctuality
 - Particularly in London, passengers query the reliability of these numbers as often seem high
- There is no clear understanding of who sets performance targets
 - It is presumed that this is done by the train companies themselves, the 'Government' or 'something official'.



Reliability is key to TOCs building trust

- Previous research* has highlighted the importance of reliability for train companies in attaining and building trust
- There are other factors in addition to reliability and many of these are lacking amongst train companies
- Therefore passengers are often cynical when talking about the extent to which they trust their train company
- Consequently, they are also pessimistic when talking in terms of rail targets; how they are set, who sets them and the extent to which they are achieved



“In terms of quality of the actual train carriages I think Virgin are way ahead and that influences my trust in them.”
Derby group, Business/Leisure, Younger

“I trust the one that I use because they get me to work on time, and it's very important that I get to work on time otherwise I'm late for court.”
Derby group, Commuter, Older



Reaction to PPM and CaSL performance measures



Overview: reactions to train performance measures

- Passengers know little about how train performance is measured - knowledge of PPM and CaSL non-existent
- However, measuring performance is seen as important and there is an appetite for learning about how it is measured
- That said, most passengers expect that targets will not be particularly demanding and tend to give low estimates when asked what they believe targets will be
 - For CaSL, the headline target of 2.2 per cent was seen as reasonable
 - 98 per cent not cancelled was typically suggested as an aspiration
 - Accepted that 'things happen' meaning some cancellations inevitable
 - PPM less well received
 - 98 per cent - 99 per cent punctuality often the typical target suggested
 - As such, 92.5 per cent target falls well short of ideal (although not altogether unexpected)
 - On reflection, around 95 per cent seen as 'realistic' target
- However, once the detail of targets is revealed, many feel that their 'worst suspicions' have been confirmed
 - Do not believe that measures accurately reflect true performance
 - Figures 'massaged' by generous targets and 'loopholes'
- Furthermore, many passengers struggle to understand how targets impact on their journey
 - Whether achieved or not, what are the consequences?
- Some make an explicit link between compensation for delay or cancellation with performance targets or with fines and performance targets
- While there are calls for more stringent rules in respect of fines and compensation, this is also seen as a double-edged sword – perception that ultimately 'the passenger always pays'

"It's a bit of a con, they're measuring those figures in a way that makes them show what they want them to show, rather than measuring it to identify and fix problems, to make it actually a good service."

London group, Commuter, Younger

"And at the end of the day if that was okay, they would tell you wouldn't they? It would be "Here's how we are measured..." but they obviously don't want to tell you that because everybody is going to say that's not right."

Performance measurement: initial expectations



- Passengers expect punctuality to be measured in detail and believe that the technology can/should facilitate this

TOC

- Every service operated by every TOC should be measured and published

JOURNEY

- All journeys should be monitored and published

STATION

- Departure/arrival times should be measured for every train stopping at every station

- Some suggest a sampling approach as long as the sample still measured the train's entire route (not just end destination station).

“I know we've got the technology to do it but if you can get a big enough sample, it's statistically valid anyway.”

Cardiff group, Commuter, Younger

“Every station it stops at because it's all very well if it leaves Glasgow and gets to Edinburgh at the right time but if somewhere along the line, say it's delayed and you arrive late or miss your connecting train?”

Glasgow group, Commuter, Younger



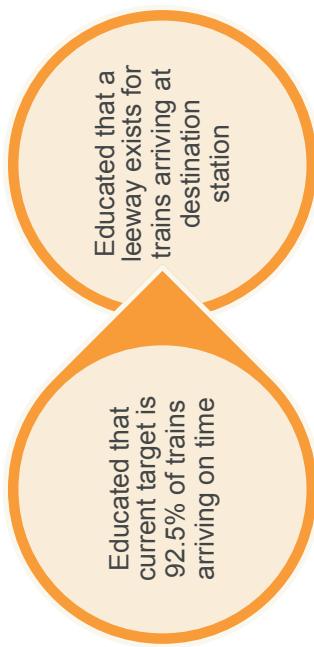
Unveiling of PPM to respondents

- Passengers were educated about Public Performance Measure (PPM) in the following way
 - Their reactions were sought after each piece of information was given

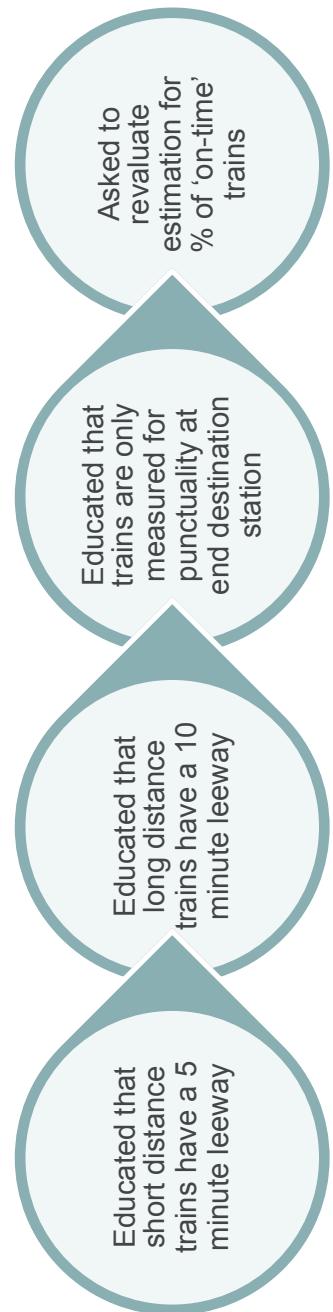
First stage



Second stage



Third stage



Overview: reactions to PPM



The Public Performance Measure (PPM) shows the percentage of trains which arrive at their terminating station on time.

- Initial reactions are that PPM should measure punctuality firmly and stringently
 - Broad consensus that >95 per cent of trains should be arriving ‘on time’
 - ‘On time’ should mean to the minute
 - Punctuality at every stop should be measured

Initial reaction
considered

- Initial stringency softens as educated more about what PPM measures
 - Understanding that a very small element of ‘leeway’ may be needed around ‘on time’ measure

Considered
reaction

- Scepticism sets in and passengers question the value of the measure
 - 92.5 per cent target feels far too low (NB - target tends to be seen as a ceiling rather than a base level)
 - Leeway considered overly generous i.e. 10 minutes ‘late’ considered too long to still be counted as ‘on time’
 - That trains are only measured at destination station further compounds cynicism

Reaction after
detailed
explanation

- Awareness of how PPM measure is calculated further undermines trust in train operators.



Detailed view: reactions to PPM

Initial awareness of PPM tested

- No awareness of PPM

Passenger estimation of % of trains that arrive on time

- Estimates range from 70 per cent – 90 per cent
- Those who suggest lower figures argue this reflects true experiences
- Those that predict higher figures believe that some of the shorter, less congested services are more reliable and boost the average
 - Some believe that train companies would not want to report low figures, and “massage” the figures accordingly

Passenger perceptions of what ‘on-time’ means

- For the majority, ‘on-time’ means to the minute
 - Some acceptance that a small leeway (one/two minutes) may be justified
 - Some recognition that it is likely to differ dependent on the journey length

Educated that current target is 92.5% of trains arriving on time

- 92.5 per cent initially sounds high as a reflection of true train punctuality (although not particularly high as a target)
- Some suggest that target should be more aspirational
 - Should strive to be the best i.e. 100 per cent
 - And should be progressive e.g. show progress year on year.

“I think people have a perception that it’s a lot lower but there’s loads of different companies and journeys that are much shorter and probably on-time most of the time.”
Cardiff group, Commuter, Younger

“If it arrives at 7.01am instead of 6.59am to me that is late; it’s not the time they advertised it. Not that late I will accept, but it’s still late.”
London group, Commuter, Younger

Detailed view: reactions to PPM



Educated that short distance trains have a 5 minute leeway

Educated that long distance trains have a 10 minute leeway

Educated that trains are only measured for punctuality at end destination station

Asked to reevaluate estimation for % of 'on-time' trains

- Passengers often 'outraged' at industry's definition of 'on-time'
- Also disbelief that this is not more widely communicated

Some suggest alternatives:

- Leeway calculated as a percentage of timetable, particularly for long distance journeys (as per airlines)

"We all said that we care about if it gets to our station on time, so this isn't really telling us anything about that, it's just telling us whether it gets to whichever the end station is."

Cardiff group, Commuter, Younger

Passengers further irritated by this

- Adds to the perception that train companies 'massage' the figures
- Consensus that punctuality should be measured at every station
 - Otherwise not accurate given many people will disembark before final destination

- A perception that 92.5 per cent is not a true reflection of train punctuality
 - Given all of the caveats, a score of 99 per cent is not seen as unreasonable.

Unveiling of CaSL to respondents



- Passengers were educated about Cancellations and Significant Lateness (CaSL) in the following way
 - Their reactions were sought after each piece of information was given

First stage



Second stage



Glasgow
only

Educated that ScotRail is not measured against CaSL

Overview: reactions to CaSL



CaSL is defined as the number and percentage of passenger trains (franchised and open access operators) which are cancelled in part or full, or which arrive at their final destination 30 or more minutes later than the time shown in the public timetable.

Initial reaction

- Passenger definition of 'significantly late' considerably more stringent than the industry measure
 - 10 minute 'cut-off' for short distance and 20 minutes for long distance trains
 - Cancellations seen as requiring a more stringent target than lateness – 98 per cent not cancelled emerges as consensus figure.



Reaction after detailed explanation

- Some indignation at industry definition of 'significantly late' - 30 minutes considered too generous
- However, 2.2 per cent as headline figure considered a reasonable target for cancellations albeit more detail regarding reasons for cancellation often desired
- Measuring significant lateness and cancellations together is confusing for some.



Detailed view: reactions to CaSL

Initial awareness of CaSL tested

- No awareness of CaSL

“I can't understand why it is 30 minutes and I would aim to reduce that. I think they have given themselves quite a lot of leeway actually with 30 minutes.”
Glasgow group, Business/Leisure, Older

Passengers estimate that 'significantly late' would include short distance trains that are more than 10 minutes late and long distance trains that are more than 20 minutes late

- i.e. double the allowances that PPM makes for late trains

Asked to estimate what 'significantly late' means

-

Including significant lateness within cancellation figures causes some confusion

- Some agree that 30 mins delay is as bad as a cancellation and so should be counted as such
- Others suspect it may be a way of 'hiding' lateness

Educated that 30 minutes late is considered as 'significantly late'

-

Estimates are 95-98 per cent of trains are not cancelled or significantly late

- Passengers speak in terms of the numbers of trains that are **not delayed** or significantly late
 - Rather than the number that **are cancelled** or significantly late.

Detailed view: reactions to unveiling of CaSL



Educated that current target is 2.2% of trains cancelled or significantly late

- 2.2 per cent considered a reasonable target by most
 - Only a minority argue for something more stringent

Asked to reevaluate estimation for % of cancelled/ significantly late trains

- “What do you expect? 99 per cent? I would settle for 99 per cent for everything.”
Glasgow group, Business/Leisure, Older
- “2.2 per cent? I think that's quite reasonable. We can live with that.”
London group, Business/Leisure, Older

Not a clear consensus on significant lateness

- Suggested significant lateness should be measured alongside PPM (some assumed that including a train within CaSL boosts PPM scores further)
- Also many argue that classification for ‘significantly late’ should be different for short and long distance
 - 30 minute delay on a 10 minute journey more significant than on a 3 hour journey
 - Could be calculated as a percentage of journey time

Extent to which cancellations and significant lateness should be measured together

- Passengers in Glasgow cannot comprehend why ScotRail is not measured against CaSL
 - Speculate that this is because of the variable and “severe” weather
 - But not considered a legitimate reason for exclusion
 - Supports passenger perception that delays are either minor, or trains are cancelled outright.



Detailed view: reaction to calculation of punctuality targets

Currently, all trains count equally towards punctuality targets – each individual train either does or doesn't arrive within 5 or 10 minutes of scheduled time. There is therefore exactly the same incentive, from a performance target perspective, to run a train on time that has 1,000 passengers on it as one with 20 passengers.

- On balance, most passengers believe that all trains should count equally towards punctuality targets
 - They argue that everyone has made the same contract with the TOC and each journey should have the same weight
- There is some argument (particularly by commuters) that journeys should be weighted by passenger numbers
 - And some suspicion that targets might be massaged by operators running trains on 'easy' services to 'up' the average
- However, also believe that weighting by passenger numbers might introduce perverse incentives
 - If targets are skewed to busy trains, it is feared that the train companies may drop service standards on quieter services and not strive to ensure optimum punctuality.

“But are they looking at that saying there's only 20 people on it so let's cancel it because it's not economical to run it?”
Glasgow group, Commuter, Younger

“I don't think they should or otherwise they will end up making all the trains for leisure four hours late, and the rest on time!”
London group, Business/Leisure, Older

Effect on trust



- Knowledge of PPM/CaSL and how each measure is calculated further undermines passengers' trust in the railway for a number of reasons:
 - Belief that targets are not stretching enough overall
 - Targets seen as containing numerous loopholes and caveats that allow the industry to massage the figures
 - Expectation that targets will be treated as a *ceiling* for service performance and that operators are only incentivised to 'get over the line'

“You trust them less, knowing the detail behind the measure now, it's like not what we would expect, our perception of 95 per cent on time is not actually accurate.”
London group, Business/Leisure, Older

“I said before that I trust if I had a complaint but now I think they'd probably do the same with their complaint figures and say “oh well, this complaint doesn't count for this reason”, whatever.”
Glasgow group, Business/Leisure, Older

“A bunch of thieving rogues!”
London group, Business/Leisure, Older



Speed, punctuality,
frequency trade-offs

Punctuality most desired over speed, frequency



- Most passengers (and commuters in particular) desire more punctual trains
 - This is because passengers' primary aim is to arrive at their destination 'on time', regardless of how long that journey takes
 - Also, reflects belief / experience that delays occur more frequently than cancellations
- There are a few exceptions:
 - **Speed** desired on very long distance journeys (London – Glasgow), to reduce journey time
 - **Frequency** desired on rural journeys, to ensure trains run more regularly
 - **Frequency** desired by some leisure travellers, as this should result in more seats and therefore less crowding
- A widespread belief from passengers that there is no reason why the train companies can't deliver an improvement in terms of all three factors: speed, frequency and punctuality
 - The industry's argument that all three can't be achieved further compounds a view that passengers' best interests are not prominent enough
- Passengers also argue that a 'one size fits all' approach is inappropriate and that different journeys require different improvement priorities.

“To me it's too top down, it's a general question in general terms, what would you like? But the specific issues are specific routes so why can't they address them rather than just saying we can have frequency, speed or ...?“
Glasgow group, Commuter, Younger

“That is a ridiculous argument. I think because we give them so much leeway that is why they can then say these things.“
London group, Commuter, Younger

Task 1



- When you are making a long distance journey, for example London to Manchester, what is more important to you?

More trains arriving at their destination 'on time' (within 10 minutes of scheduled time)	60%
A reduction in the amount of train cancellations or days of widespread disruption	40%

Base: 80

CAUTION: These figures should be used only as an indication, due to the low sample size

- Commuters more likely to desire more 'on time' trains, reflecting more frequent experience of delays and more limited impacts of cancellations given service frequency
- Those choosing fewer cancellations (more often business/leisure travellers) argue that a 10 minute delay is not hugely significant for a longer journey, but a cancellation could be a 'disaster'.

"If I was doing a journey, say I was going Glasgow to Manchester for a trip away, if your train's cancelled, that's your trip ruined."
Glasgow group, Commuter, Younger

"I put the first one just because I think there's not as many cancellations as there are late trains. But a cancellation at the wrong time could be terrible but they rarely get cancelled, compared to the amount that are late."
London group, Commuter, Younger

Task 2



2. On some routes it may be theoretically possible to run an extra train. This would mean a higher frequency of trains and less crowding, but it could mean that punctuality suffers. Which is more important?

To run an extra train, even if punctuality suffers	30%
Ensure that trains run to schedule even if there are more passengers on the train	70%

Base: 80

CAUTION: These figures should be used only as an indication, due to the low sample size

- Commuters, again are more likely to desire more 'on time' trains
 - Accustomed to crowding and not getting a seat
 - Punctuality and getting to work/meetings on time is more important
- Business/leisure passengers desire more comfort – crowding/lack of seating is a more significant issue
- Some commuters argue in favour of additional trains on grounds that services often severely overcrowded
 - Not a question of not getting a seat, but of not being able to get on the train at all.

“But then you don't really mind standing on the train for 15 minutes every morning, you wouldn't want to be standing from Glasgow to London.” Glasgow group, Business/Leisure, Older

“I'd rather get squashed for a little bit. Because we're used to getting squashed.” London group, Commuter, Younger

Task 3



3. On some routes it may be possible to reduce journey time, but it might come at the cost of more erratic punctuality (one day it runs fine, the next it is late). Would you rather...

A service that gets you to your destination quicker, but an increased chance of delays	10%
Ensure that trains run to schedule even if there are more passengers on the train	90%

Base: 80

CAUTION: These figures should be used only as an indication, due to the low sample size

- Little desire for a faster service in exchange for more erratic punctuality
 - Passengers do not mind how long a service takes, providing it arrives at the scheduled time
 - Allows them to plan/schedule
 - Belief that faster doesn't mean significantly faster and is likely to be only one/two minutes quicker.

“Yeah, if your train journey takes normally 20 minutes and they can reduce it to 10 minutes but they could be 10 minutes late, then you're still getting from your house to your ultimate destination at the same time. I'd rather they were more accurate.”

London group, Business/Leisure, Older

“If they tell me it's going to take 10 minutes, I'm happy for it to take 10 minutes, don't really care if it takes eight.”

London group, Commuter, Younger

Task 4



4. What is the most important objective that Government should set for train companies to achieve?

More trains arriving on time	73%
Fewer cancellations	17%
Fewer days of major disruption	10%

Base: 80

CAUTION: These figures should be used only as an indication, due to the low sample size

- The majority desire more trains arriving on time – reflects belief / experience that delays occur more frequently than cancellations
- Those who opt for fewer days of major disruption argue that this will reduce the number of people stranded/unable to get somewhere, particularly on longer journeys
 - Whereas cancellations/delays may still allow arrival at destination, just late.

“I put number three again because if you can't get there at all, if you have a day of major disruption, if you can't get there at all it could really mess up a holiday or whatever, whereas being slightly late isn't the end of the world.”

London Group, Business/Leisure, Older

“I think generally more trains are delayed than they are cancelled or disrupted so if you're taking an average, I would rather that they were more on time and a couple of cancellations.”

London group, Commuter, Younger



Performance measurement trade-off exercises

Further learning on PPM/CaSL



- Learning about some of the criteria against which PPM and CaSL are measured further erodes passengers' perceptions of the credibility of these measures
 - Passengers are, again, left 'outraged' at some of the tactics that the train companies can employ, specifically:
 - Adding extra time to the timetable between the penultimate and last stop
 - Cancel trains by 10pm the night before they are due to run and they don't count as cancelled
 - Miss out stations to save time and get subsequent trains running to schedule
- This further strengthens the perception that PPM/CaSL does not provide a representative view of the train service as too many 'loopholes' exist.

“I think the figures they seem to publish are certainly published to pull the wool over our eyes. If they just told us what was happening, we could say “Yeah, that’s okay, we understand it’s a difficult job you’ve got to do, we understand there’s going to be delays and cancellations”, we understand all that, if you just told us the truth then we’d be able to deal with that.”
Glasgow group, Business/Leisure, Older



Task 1

- Some train companies add extra time to the timetable between the penultimate and terminating station, while others print a publicly-advertised arrival time that is later than the actual arrival time in internal timetables.

To what extent do you agree that this is an acceptable thing for train companies to do?

5 = strongly agree, 1= do not at all agree

1	2	3	4	5
28%	22%	25%	15%	10%

*Base: 80
CAUTION: These figures should be used only as an indication, due to the low sample size*

- Not a clear consensus
 - Some see this as acceptable providing they arrive at their destination at the scheduled time –
 - “It's not fixing the problem. It's just lying and saying that it is on time, but it's not.”
Glasgow group, Business/Leisure, Older
- Many feel it is unacceptable
 - Another way that the figures are manipulated
 - Not a fair/genuine reflection of how the service has performed
- Viewed as more acceptable if additional time is added on at every station the train stops at
 - E.g. one/two minutes
 - But not just between penultimate and end station.

“If it said a couple of minutes from when it actually arrives at its destination, you know I would rather personally that than it arrive two minutes late and I miss my connection.”
Glasgow group, Commuter, Younger

“It's not fixing the problem. It's just lying and saying that it is on time, but it's not.”
Glasgow group, Business/Leisure, Older

“If a train said it added an extra minute on the time between each stop and it actually took that time, whether that meant it was going slightly slower or whatever, that I wouldn't have a problem with.”
London group, Commuter, Younger

Task 2



2. On some 'metro' type train routes service frequency is similar to London Underground.
Imagine a route like that with 10 trains per hour - in other words a train every 6 minutes.
One train gets delayed and arrives at your station 6 minutes late. If all the trains for the rest
of the day arrive at your station 6 minutes late the train punctuality score (PPM) would be
zero percent, but no passengers will actually be late - except those on the very first train.

In this situation, what would be better to measure performance?

Via the current method i.e. PPM	20%
To measure the interval times between trains i.e. the amount of time between each train	80%

Base: 80
CAUTION: These figures should be used only as an indication, due to the low sample size

- Large majority agree that an interval measurement system would be more appropriate
 - Perception that this would provide a more accurate reflection of punctuality experienced by the majority of passengers.

“It's still going to inconvenience the first people at the platform or some people on one train, but for the majority it's probably going to improve their experience.”
London group, Commuter, Younger



Task 3

3. In the autumn train companies will run amended timetables to account for trains having to brake more slowly when leaf mulch makes the rails slippery. Should the timetable be amended so that...

The service provided is predictable and reliable, even if it takes slightly longer than normal	90%
Or should train companies try to run the normal timetable and if some trains run late some days, so be it	10%

Base: 80

CAUTION: These figures should be used only as an indication, due to the low sample size

- Mixed feelings exist on leaf mulch
 - Some recognise that it is a genuine problem
 - Others struggle with the concept and don't believe other countries have such problems
- Passengers desire a predictable service rather than uncertainty and do not oppose an amended timetable
 - Safety is paramount
 - Any amended timetable would need to be in place for a limited period i.e. two/three months
 - With advance notice about its introduction
- Those against the idea argue that the TOCs receive enough leeway as it is
 - Whilst a lack of trust results in passengers believing that TOCs would introduce the timetables too early or when leaf mulch isn't a problem.

Task 4



4. In times of extreme weather, train companies can run an amended timetable. This timetable may have a reduced frequency of trains running or there may be no trains at all on particular lines or stopping at particular stations.

Should train companies be allowed to introduce an amended timetable	60%
Or should they always have to attempt to deliver the full timetable	40%

Base: 80

CAUTION: These figures should be used only as an indication, due to the low sample size

- Passengers divided on the introduction of an amended timetable

"I think that they should attempt to do it. In my experience there's like literally a couple of snowflakes and that's it the whole network goes off. To be honest they would bring in an amended timetable too soon, they'd say right that's it."

Glasgow group, Commuter, Younger

Support an amended timetable

- Safety is paramount
- An amended timetable is likely to be more punctual
 - But, any amended timetable should be communicated well in advance

Oppose an amended timetable

- TOCs should at least attempt to deliver the full timetable
 - Rather than admitting defeat straightaway
 - Passengers' perceptions of extreme weather likely to be significantly different from TOCs'
 - Passengers stranded at non-stopping stations
- Performance should be measured against the amended timetable, providing passengers are given notice of this and it is not introduced at very short notice.

Task 5



5. Currently, if a train company cancels a service by 10pm the day before it is due to run, it doesn't count as a cancellation in terms of industry targets.

To what extent do you agree that this is a fair way to measure performance?

5 = strongly agree, 1= do not at all agree

1	2	3	4	5
66%	30%	4%	1%	0%

Base: 80

CAUTION: These figures should be used only as an indication, due to the low sample size

- Almost unanimous agreement that this should not be allowed to happen
 - More acceptable if the cut off point was earlier than 10pm and passengers were given more warning e.g. 24 hours.

Task 6



6. On a day when the train service has been dreadful, what should the industry do to get back on track?

Continue to run as many services as possible, even though these are likely to continue to be delayed	81%
Sacrifice the interests of passengers travelling at that moment in return for a better service later in the day. For example, for a period of time (one/two hours), skip stations, stop trains short of their destination and cancel trains outright, in order to get trains in the right positions and 'back on track'	19%

Base: 80

CAUTION: These figures should be used only as an indication, due to the low sample size

- The majority feel that all passengers should be treated equally, regardless of time of travel
 - Unfair to leave passengers stranded
 - And unable to get home
- Most passengers can recall a time when they have been stranded or a train has not stopped at their station
- The only exception is London
 - Some passengers feel that London is better equipped to cope if they cancelled train services for a short period
 - Alternative routes/forms of transport available
- 'Disaster days' should be measured separately in punctuality statistics
 - And measured against how well the 'disaster' was dealt with.



Summary

Performance measures and trust



- Passengers' views on performance targets and measurement are informed by the wider context within which they assess the railways. There are three key issues:
- **Limited trust** - lack of trust is a recurring theme in passengers' assessment of railway performance
 - This study, in line with much previous research, highlights a large degree of cynicism about the motives and behaviour of the railways
 - While this cynicism can often appear ill-informed, it reflects both a (not unreasonable) lack of understanding about how the railway operates and the very limited *emotional engagement* that consumers have with the railways
 - As such, there is a tendency to suspect the worst rather than give the benefit of the doubt – an impression that is reinforced when passenger learn more about the detail that sits behind PPM and CaSL
- **Lack of competition** - while consumers are often sceptical about the claims made by 'big business', this is compounded in the case of the railways by a belief (whether right or wrong) that the industry is not subject to the same level of competitive market discipline as other sectors
 - This has the contradictory effect of increasing the perceived importance of the railways having stringent performance targets, while also reinforcing passengers' suspicions that the railways will do nothing more than the bare minimum to reach such targets
- **Lack of transparency** - for the most part, passengers do not know what targets are set, by whom they are set or how they are monitored. Furthermore, even when they are informed about targets, they struggle to see a link between these measures and their own journey experience or how these measures contribute to service improvement more generally
 - Linking performance more explicitly to compensation and / or fines is seen by some as a better way of reflecting passengers' experiences but some feel such costs will ultimately be borne by the passenger.



Passengers value PPM/CaSL in principle, but question how these measures are implemented in practice

- Passengers' key priority is for *reliability* and a such there is broad agreement that both punctuality (especially) but also cancellations should be stringently measured
- As such, both PPM and CaSL are seen as relevant and useful *in principle*
 - However, in practice, the overall targets are seen as relatively lenient (particularly PPM)
 - The current measures are also considered to contain too many 'loopholes' – this reinforces perceptions of leniency and undermines trust in the whole measurement process
- Passengers' response to the above is to suggest that more – and more detailed – information should be provided. Specifically:

	<ul style="list-style-type: none">■ Departure/arrival times should be measured for every train stopping at every station■ Every service and journey measured■ Information on cause of delay/cancellation/disruption■ Separate definitions for 'significantly late' on short and long distance trains■ Some support weighting by passenger numbers (although the overall consensus was for measurement per train)
More detail	<ul style="list-style-type: none">■ Amount of 'leeway' determining 'on-time' based on journey length of train■ TOCs not allowed to add extra time to the timetable between penultimate and terminating station■ ScotRail to be measured against CaSL■ Cancellations and 'disaster days' always recorded and measured
Less lenient	<ul style="list-style-type: none">■ More communication that these measures exist■ More communication about how these figures are calculated and monitored
Transparency	<ul style="list-style-type: none">■ Providing some of the additional detail described above might help to reassure passengers about the relevance and integrity of PPM and CaSL

- However, it has to be acknowledged that suggestions such as these are, in part, a function of passengers having been asked to look at performance measures in a sustained and detailed way in a research setting. In reality, consumers are seldom willing to engage at such a level of detail, although they believe access to such detail should be available if required.

Issues to consider



- Passengers want train punctuality and cancellations to be measured
- Given this, there may be merit in providing additional detail about targets and, indeed, in making targets more stringent
- But in addition, consideration should also be given to communicating targets in a way that helps address the bigger, contextual issues – particularly that of trust. The following might therefore be considered:
 - Objectivity and independence
 - More information about who sets and monitors the targets, as well as reassurances that they are managed independently and impartially with passengers' best interests 'at heart'
 - Consequences and incentives
 - Communication of why it is necessary and important for TOCs and Network Rail to meet (or even exceed) targets and the consequences of non-performance
 - Aspirational and progressive
 - Positioning targets as the 'minimum acceptable level' of performance, giving an assurance that the industry strives to exceed these targets and providing evidence that it does so on occasions''*
 - Communicating improvement over time and showing that targets work in supporting continual service improvement
 - Simplicity
 - Consideration might be given to re-framing targets away from purely statistical information (although still very much underpinned by 'hard' data) towards making a small number of simple but definitive promises, cast in 'consumer' language and with a clear indication of the consequences of failure. In this context, targets might be better communicated through Customer Reports, which appear to have significant potential for building dialogue with passengers*
 - For example, 'We will only ever cancel a train for the following reasons...', 'If we make you more than X minutes late we will refund Y per cent of your fare' etc.

*<http://www.transportfocus.org.uk/news/articles/train-company-transparency-welcomed-by-passengers-2015>



Transport Focus

Links between train punctuality and passenger satisfaction:
Journeys across the Greater Anglia franchise in 2012, 2013
& 2014 – Executive Summary

Executive summary

Transport Focus is the independent transport user watchdog charged with representing the interests of: Britain's rail passengers; bus, coach and tram passengers in England but outside London; and users of the strategic road network in England. Amongst other objectives, Transport Focus seeks to understand the needs and expectations of rail passengers and to secure tangible and measurable improvements for them. To support these objectives Transport Focus commissions and publishes the twice-yearly National Rail Passenger Survey (NRPS), which is the benchmark measure of changes in passengers' attitudes towards all elements of rail travel in the country.

This report, commissioned by Transport Focus in a joint project with the Office of Rail and Road (ORR), provides the results of a study examining passenger satisfaction, as measured by NRPS, alongside rail industry train punctuality data from 2012 to 2014. The principal aim of the study is to further understand the relationships between passenger satisfaction with punctuality and actual train punctuality.

The analysis matched train punctuality data with individual respondents from the survey, establishing how late the train was at the location where the passenger alighted. This allows a direct comparison to be made between the lateness the passenger experienced and their resulting satisfaction with punctuality.

The report focusses on the Greater Anglia (GA) franchise in order to provide comparability with a 2009 report prepared by CDL (now part of GHD), as well as to inform Transport Focus ahead of the East Anglia franchise competition later in 2015.

The document has been prepared solely based on data from:

- NRPS records and corresponding reports, supplied by Transport Focus; and
- Train punctuality and timetable data, supplied by Abellio Greater Anglia (AGA).

In discussion with Transport Focus it was agreed that:

- Due to potential complications resulting from weekend engineering works, NRPS respondents travelling at weekends would be excluded from the analysis;
- Train punctuality data used would be that for weekdays during the NRPS survey periods only; and
- Cancelled services would be excluded from the study.

Findings from the analysis

Impact of lateness on satisfaction with punctuality

The analysis shows the relationship between passenger satisfaction with punctuality as measured by the NRPS and actual lateness experienced by the passenger concerned. Do passengers notice an increase in lateness? How significant is the impact on their satisfaction?

Across all passengers surveyed in the study period:

- 82 per cent express satisfaction with punctuality when their service arrives early or on time; and
- For every minute of lateness, satisfaction with punctuality decreases by three percentage points.

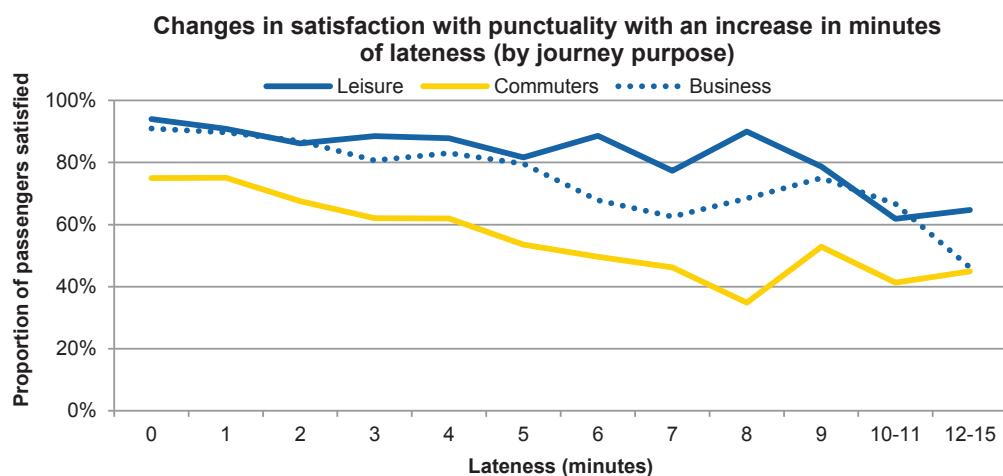
The characteristics of a passenger's journey can influence how they perceive lateness.

Typically, those passengers who travel more frequently are less satisfied and are more sensitive to worsening punctuality. The following graphs illustrate this for different journey purposes and

travel frequency. Given that these characteristics are clearly linked – commuters travel most frequently – the graphs have similarities.

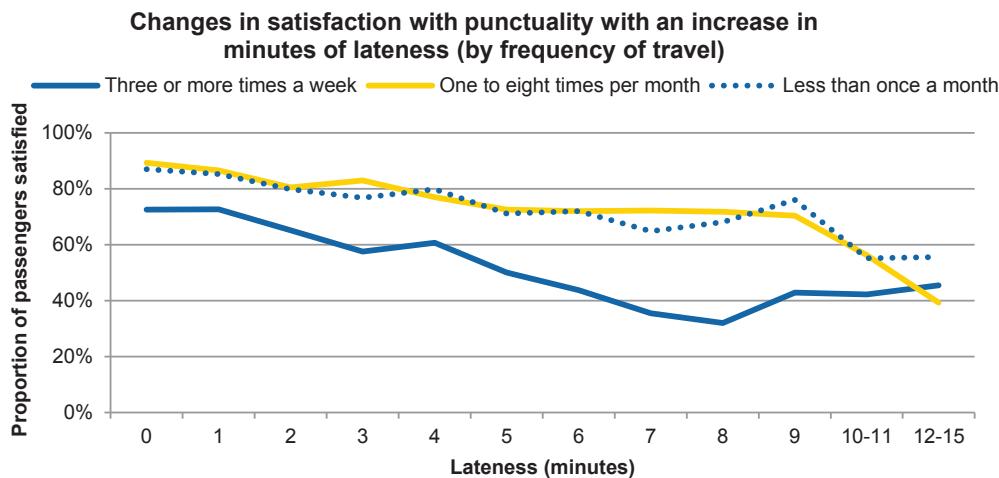
For journey purpose (as shown in the figure below):

- Commuters are less tolerant of lateness than business and leisure travellers; only 74.9 per cent of commuters are satisfied with punctuality when their train is on time;
- 94 per cent of leisure travellers are satisfied when their train is on time;
- For every minute of lateness, commuters' satisfaction with punctuality declines by five percentage points; this suggests that those passengers who travel most frequently are influenced by previous punctuality experiences when responding to the survey;
- Leisure travellers' satisfaction with punctuality decreases by just one percentage point for every minute of lateness; and
- The rate of decline for leisure travellers increases at the eight minute mark, indicating that leisure passengers have heightened awareness of lateness from this point.



For travel frequency (as shown in the figure below):

- Passengers travelling more frequently express a lower satisfaction rate than those travelling less frequently even when their service arrives early or on time; their reaction to increased lateness is almost identical to that of commuters; and
- Passengers travelling between one and eight times per month respond to lateness in the same way as passengers travelling less than once a month. This indicates that the satisfaction rate of less frequent travellers is defined by their journey purpose rather than their frequency of travel.



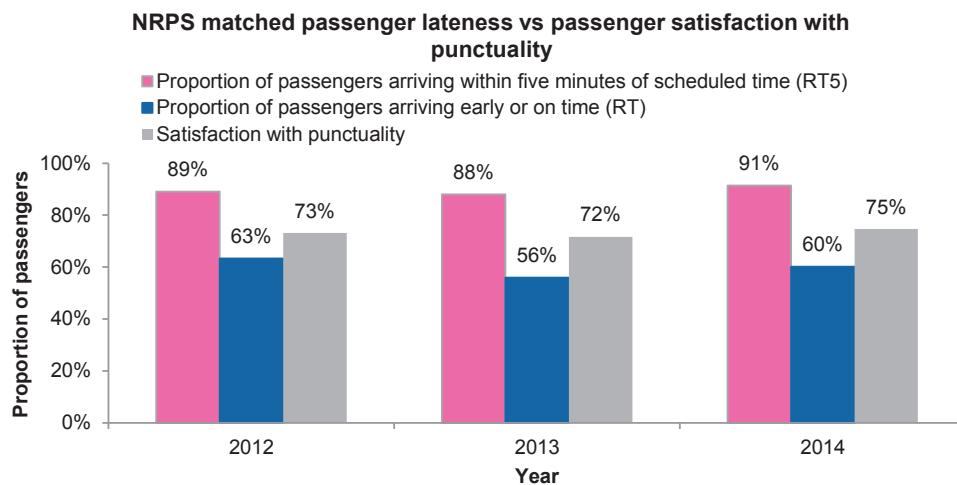
Extending this to ticket type, the trend continues. Respondents using weekly, monthly and annual season tickets are less satisfied with punctuality, even when on time. When experiencing delays, their satisfaction with punctuality also declines at a faster rate than those on full and reduced tickets (typically bought by less frequent travellers).

Changes to passenger lateness and satisfaction over time

When a comparison between satisfaction and lateness is considered year by year, conclusions may be drawn about whether passengers' satisfaction with punctuality follows the trend of the punctuality actually experienced. Most notably (as shown in the figure below):

- Of the passengers surveyed, the proportion of passengers arriving within five minutes of their scheduled time increased marginally from 89 per cent (2012) to 91 per cent (2014);
- The proportion of passengers arriving on time or early decreased in 2013, but increased again in 2014; and
- The response of passengers in terms of their satisfaction with punctuality follows a similar trend, with a dip seen in 2013, followed by a recovery in 2014.

Note that the graph below is only representative of the respondents who were successfully mapped to punctuality data.



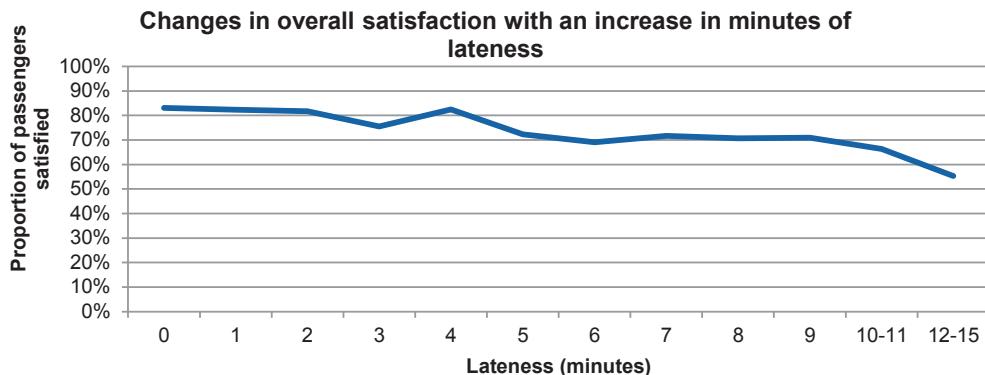
Impact of lateness on overall satisfaction

Many years of NRPS results has enabled Transport Focus to determine that satisfaction with punctuality is the key driver for overall satisfaction. As a result, it is expected that the trend

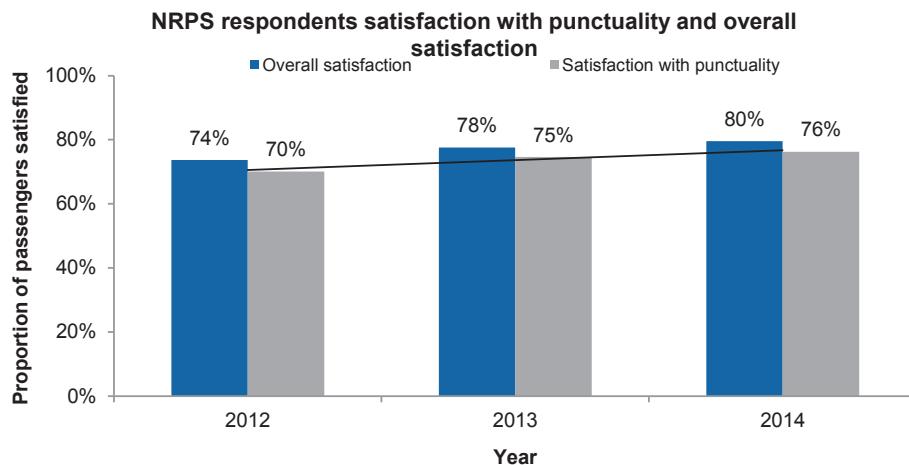
between satisfaction and increased lateness to apply to overall satisfaction as well. While other factors clearly influence a passenger's overall satisfaction, the graph below shows that lateness does play a key part. The key findings are (as shown in the figure below):

- Only 83 per cent expressed overall satisfaction with their service when arriving early or on time; and
- For each minute of lateness, the overall satisfaction reduces by 1.5 percentage points.

This does not prove a relationship, but indicates that passenger's overall responses are influenced by punctuality.



This is supported when considering how passengers' satisfaction with punctuality and overall satisfaction has changed over the three year study period. Both satisfaction with punctuality and overall satisfaction in 2014 improved in comparison with 2012, as shown in the figure below. Note that the data for this graph is taken from the respective NRPS reports and represents the full survey, not just the matched data.



Impact of satisfaction with punctuality on responses to other NRPS questions

The analysis carried out also considers the impact that passenger satisfaction with punctuality has on responses to other NRPS questions, e.g. satisfaction with train cleanliness and crowding. There are three categories of relationship:

- Satisfaction drives satisfaction (satisfaction with punctuality drives positive responses to other questions);
- Dissatisfaction drives dissatisfaction (dissatisfaction with punctuality drives negative responses to other questions); and

- No significant relationship.

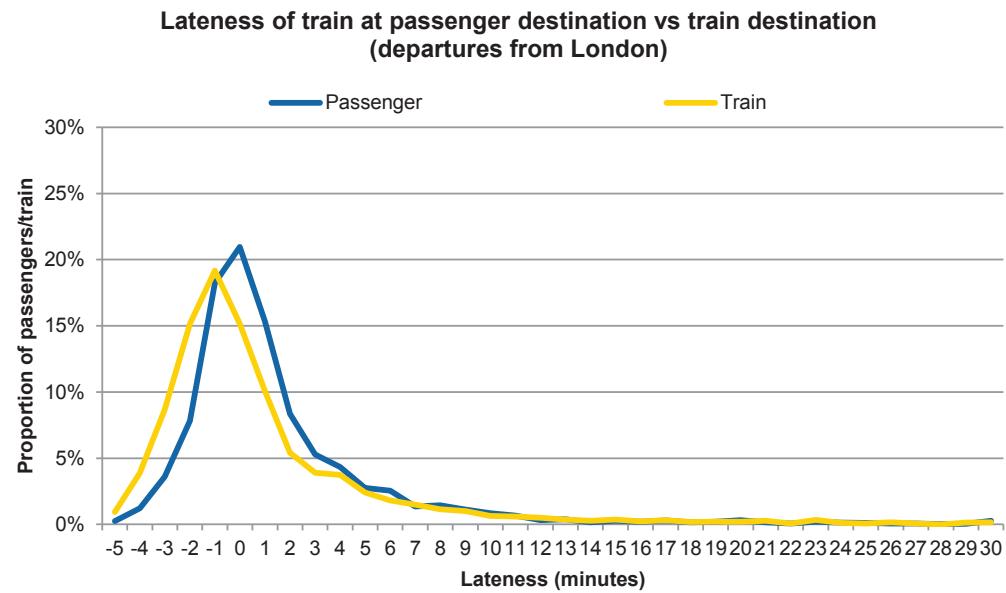
The table below allocates NRPS questions to each category, with the strongest relationship at the top of each column. For example, satisfaction with punctuality drives satisfaction with scheduled journey time in a positive direction. Conversely, dissatisfaction with punctuality means passengers are more likely to be dissatisfied with the value for money of their ticket. Note that the relationship with overall satisfaction, discussed earlier, has also been included in this table. The analysis suggests that satisfaction with punctuality drives overall satisfaction, but dissatisfaction with punctuality does not have the same impact on overall dissatisfaction.

Satisfaction with punctuality drives satisfaction	Dissatisfaction with punctuality drives dissatisfaction	No significant relationship
<ul style="list-style-type: none"> • Overall satisfaction • Scheduled journey time 	<ul style="list-style-type: none"> • Value for money of ticket • Sufficient space to sit and stand 	<ul style="list-style-type: none"> • Ease of getting on and off the train • Train cleanliness

Comparing train and passenger lateness

The analysis reported up to this point is based on the lateness the passenger experiences. It is important to understand that this can be significantly different from the train lateness that is widely reported by the rail industry in the form of the Public Performance Measure (PPM) and 'right-time' arrivals. The graph below highlights this by considering only services travelling away from London. The reason these services have been chosen is because the destination of the passenger and of the train is likely to be different. The graph shows there is a one minute lag between the two lines (as shown in the figure below). This means:

- If a train from London is reported as being on time, the average passenger will be one minute late; and
- On services departing London, 69 per cent of trains arrive at their ultimate destinations on time or early, compared with 56 per cent of passengers arriving at their station on time or early.

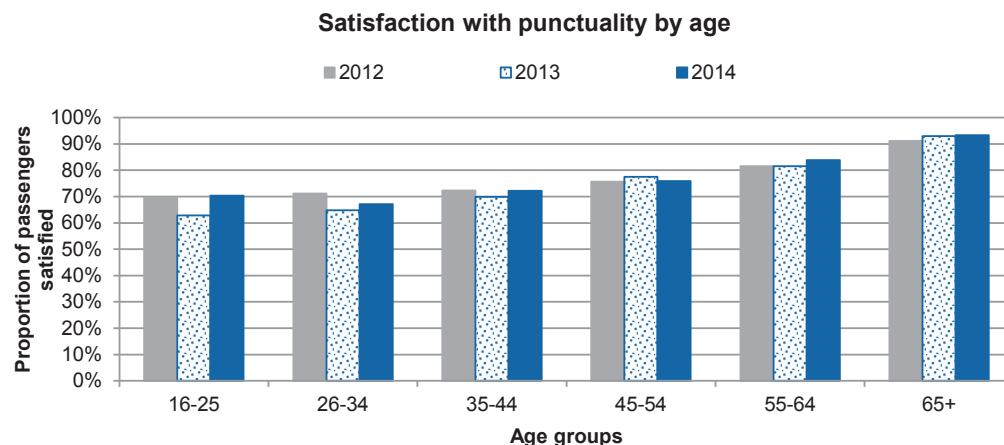


Passenger satisfaction insight

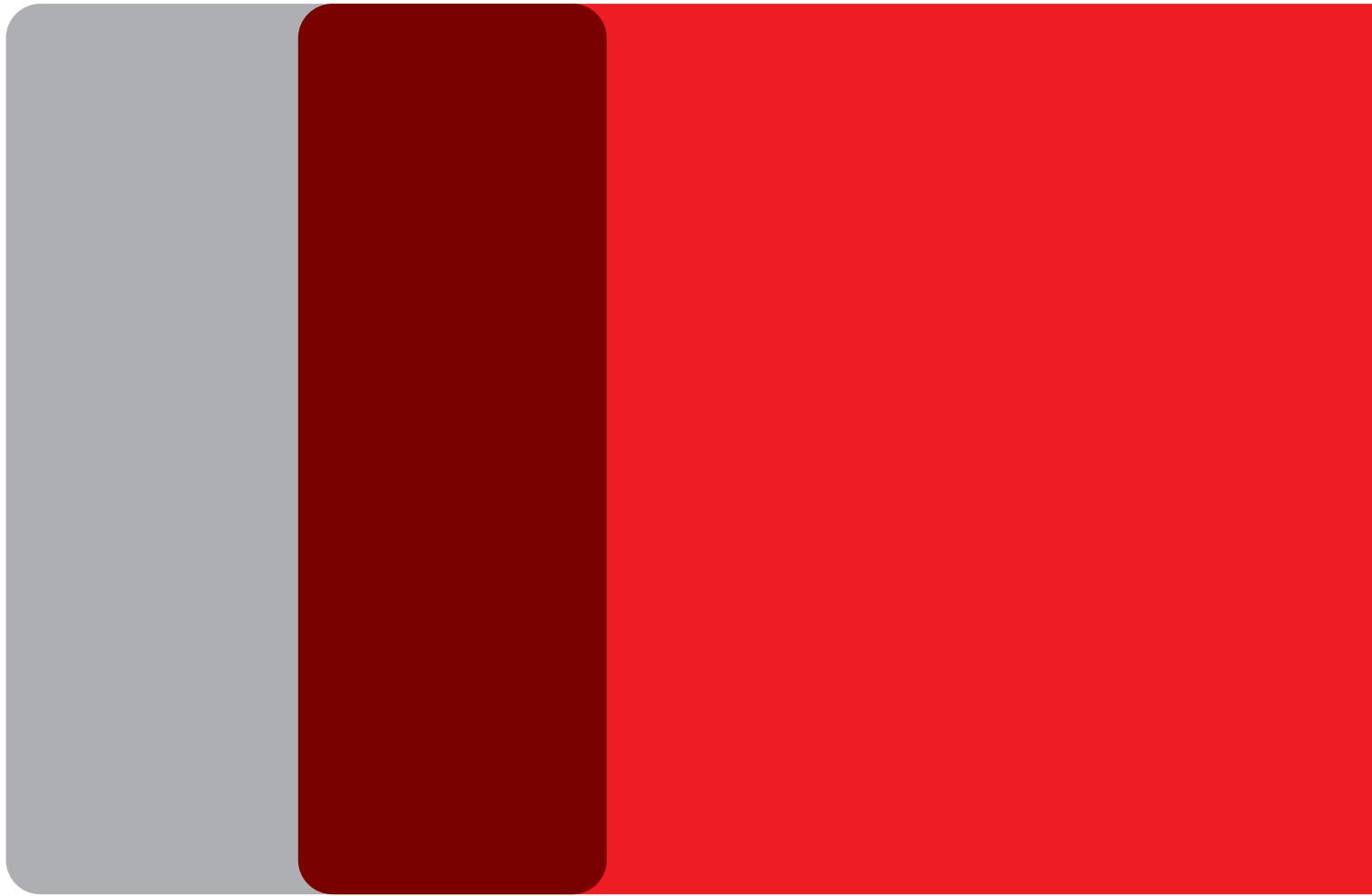
During the analysis, some useful insight was also gained into how passenger satisfaction varies by passenger characteristic.

Satisfaction by gender: In general female respondents show higher levels of satisfaction – both with punctuality and overall – than male respondents; the difference ranging from two to seven percentage points over the past three years.

Satisfaction by age: Older age groups are considerably more satisfied than younger age groups (as shown below).



Satisfaction by route: All routes have generally been improving with respect to satisfaction with punctuality. None more so than Stansted Express which has satisfaction levels 13 percentage points higher than any other route in 2014, although this may be related to changes in the composition of the Stansted Express building block within NRPS.



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