Enhancements to the National Rail Passenger Survey

Findings from pilot work during Spring 2016

June 2016



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Background to this research







Background & objectives

Following industry consultation, Transport Focus has used the Spring 2016 wave of NRPS to pilot potential changes to the survey's method:

- Shortened version of the questionnaire, with some enhancements to layout / aesthetics, and a small number of potential new questions
- Two data collection options: passengers have the choice to take part on paper or online

This report covers the findings from this pilot, based on two strands of research:



Quantitative evaluation of the changes, assessing the impact that they would have on response rate and completion, respondent profile, and the way they answer the questions



Qualitative exploration of the respondent experience when completing the paper and electronic versions of the questionnaire

This leads to recommendations on:

- Whether and how to implement the method changes from 2017
- Other improvements which might be made, to enhance the respondent experience and or / increase volume and quality of response



Overview of the pilot outcomes







Overview of the pilot outcomes



- The NRPS is important to passengers as well as Transport Focus and the rail industry
- On the whole the survey is straight forward to complete
- ...and questions are largely both relevant and comprehensive
- Offering options to complete on paper/online is a good move
- Shortening the questionnaire is logical step; having variants to accommodate missing questions works easily
- Offering missing questions as optional appears to have little benefit
- New 'softer' questions add nuance perhaps relevant annually?

"It's nice to actually be asked your view... I've used them for many many years, you don't normally get to have your say in what goes on"

Online, smartphone

"I thought E-mail would be convenient for me in my case...I would have been a little less inclined (postal), I didn't want to carry the paper home"

Online, desktop

"Whilst the guy who spoke to me said I could do it online if I wanted to, I'm an old fashioned guy and I like paper that I can pick up and put down and I don't have to re-boot the machine if I lose a page"

Paper

"She started telling me about the survey and everything, and I said well I haven't really got a lot of time, so she said ok well I can send you a thing over the internet... she asked me for my email address and ... I think the survey came... within the same day"

Online, smartphone

"Generally speaking it was really easy to fill in. The questions where I didn't have a huge amount to say were ones around the security of the station just because it's never been an issue...but the rest of it all seemed pretty relevant and easy to use"



Of course, those giving qualitative feedback may have been 'warm'. But 19% of all respondents agreed to be re-contacted, and even the drop-outs we interviewed largely agreed with the above, having specific issues which prevented their full completion bdrc continental

Impact of the method and questionnaire changes on:

Response rate







Response rates: pilot survey vs. control



	Main survey		Pilot survey		
	control sample* (12 page paper q're)	Total	Paper (8 page q're)	Onlin	ne
No. recruited	8,830	12,000	9,193	2,80	7
Total recruits per shift	58.9	64.9	49.7	15.2	2
No. responded (pre-cleaning)	2,509	3,227	2,603	624	Ļ
Total responses per shift	16.7	17.4	14.1	3.4	
Response rate	28.4%	26.9%	28.3%	22.29	%
	Total main survey (including FV conducted on trains) = 30%	V	Ş		
 Offering a choice of completion method and therefore, despite overall lower re- interviewe 			Comparab	ole response rate	es: BPS / T
interviews	ad this honofit could be real	licod furthor		otal paper	online
 If online response rate can be increas Based on comparison of main survey 				3% 34% 3% 23%	25% 23%
 Based on comparison of main survey questionnaire does not appear to hav 				2.370	2070

*this impact is likely to come from the choice of completion methods rather than the shorter questionnaire: passengers are unaware of the questionnaire length at point of recruitment, and previous pilot work on a 4-page questionnaire indicated this had little impact on recruitment rate

Compa	arable res	sponse rate	s: BPS / TPS
	total	paper	online
BPS	33%	34%	25%
TPS	23%	23%	23%



* The control cell comes from a sample of the main NRPS, for which the fieldwork (totalling 185 shifts) matched the fieldwork conducted for the pilot in terms of the days, times and stations when / where passengers were recruited. More details are given on page 5



Why agree to take part in the first place?





Are we making enough of the NRPS concept?





- Passenger views / passenger survey / passenger feedback
- Independent

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- Transparent / public (but avoiding any inadvertent implication of non-confidentiality)
- To inform service improvements

Response rate time between email invite and recruitment (days)





- Relatively few respondents were invited to take part in the online survey 3 or more days after initial recruitment; as a result response rate analysis after this point is somewhat unreliable
- Taking into account only those respondents who were invited within 3 days of recruitment, response rate is clearly stronger
 the sooner the survey invite is received
- As with BPS, the aim must be to send out survey invites within a day of recruitment, ideally on the same day

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Impact of the method and questionnaire changes on:

Who takes part







Profile of survey respondents



	Main survey		Pilot survey	
	control sample (12 page paper q're)	Total	Paper (8 page q're)	Online
Commuter	39	36	35	43
Business	15	15	15	16
Leisure	46	49	51	40
16-34	23	23	20	38
35-54	36	38	37	38
55+	39	37	41	20
No answer / prefer not to say	1	2	2	3
Male	43	43	42	48
Female	55	52	53	48
No answer / prefer not to say	2	5	5	4
Weekday	84	84	84	85
Weekend	16	16	16	15

• Despite slightly higher incidence of leisure journeys in this pilot (vs. control), introducing an online element has potential to increase representation of commuters and (probably overlapping with this) younger males – IF online contribution can be increased

• NB in a live survey, data would be weighted by journey purpose so ultimately survey profile would not alter. Rather, level of weighting required should be lessened

Impact of the method and questionnaire changes on:

(Satisfaction) results







Key results in the pilot vs. control surveys



	Main survey control sample	Pilot
Headline satisfaction ratings		
Overall journey satisfaction	84	82
Overall station satisfaction	82	83
Overall train satisfaction	80	79
Value for money rating	48	50
Summarised station ratings		
Station environment	71	73
Station facilities	68	56
Transport / connections	62	64
Customer service	79	81
Summarised train and journey ratings		
Journey measures	79	79
On-board environment	70	67
On-board facilities	50	53
Customer service	56	58

Very slightly lower journey satisfaction overall in pilot – but no clear pattern, suggestion little impact on results if this method was implemented fully

- Influence of more negative online respondents (see next page)?
- Attention drawn to more specific aspects of on-board experience (crowding, wi-fi, power sockets) – which we know is more influential on overall satisfaction than station experience?

VFM and station satisfaction actually slightly <u>higher</u> in pilot

- Slightly higher proportion of leisure journeys? (commuters could be increased with stronger online contribution, but either way would be controlled for in a live survey by weighting)
- New focus on additional station facilities (toilets and w-fi) less impactful than equivalent new questions re on-board experience, due to lower overall importance



Online vs. paper responses in the pilot survey



	Paper	Online
Headline satisfaction ratings		
Overall journey satisfaction	83	78
Overall station satisfaction	83	81
Overall train satisfaction	80	74
Value for money rating	52	43

Summarised station ratings

Station environment	73	73
Station facilities	58	50
Transport / connections	65	60
Customer service	81	79

Summarised train and journey ratings

Journey measures	80	75
On-board environment	68	61
On-board facilities	51	44
Customer service	59	55

People responding on paper are fairly consistently more positive than those responding online

<u>Partly</u> a function of online respondents' age and travel behaviour (more likely to be commuters):

- However, analysis* suggests that, while the pattern isn't strong, on balance there is a little more negativity among online respondents, even when controlling for age and journey purpose
- This echoes recent findings for BPS and TPS which also suggested that online respondents are generally a <u>little</u> less positive overall

Positivity does not appear to be linked to any time delay in response:

- Demonstrated in BPS, and the pattern of more negativity exists here in NRPS, where the time delay has been reduced dramatically compared to BPS
- Online/paper differences would be partly mitigated by journey purpose weighting, but if online respondents make more contribution in the future we might expect this to bring about a slight suppression of satisfaction results.

*Not shown in this summary report; available if required

So, we have applied journey purpose and weekday weights to assess impact on a more level playing field:

	Main survey control sample (12 page paper q're)	Pilot		Weighted sample profile
Commuter	39	36	All waighted to	46
Business	15	15	All weighted to	15
Leisure	46	49	L ₁ /	40

Proportion of commuters in the sample increased in both pilot and control samples

Effective sample size reduces to 96% of un-weighted base in the control, 98% in the pilot

► Headline satisfaction ratings	Main survey control sample	Pilot	
Overall journey satisfaction	83	80	
Overall station satisfaction	82	82	
Overall train satisfaction	79	77	5
Value for money rating	47	47	

- All headline results are suppressed a little in both samples as a result of up-weighting commuters / down-weighting leisure travellers
- Where differences existed in the unweighted results for station and VFM rating (where pilot results were more positive, these are flattened
- But other measures still seeing more negative results in the pilot
- Overall the trend for slightly more negative response in the pilot remains, even after weighting (though again, pattern is not 100% consistent, with higher scores in the pilot for some station measures)



Impact of the method and questionnaire changes on:

'Missing' questions







Around 6-8% drop out from the paper survey when given the 'choice'



26

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...but a quarter of online respondents drop out with the same offer



27

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Why do so many respondents continue with optional questions?



- Might as well have got this far
- My feedback is important
- Can see it's not much more/looks easy
- Experience so far has been fine
- Missed the fact it was optional (didn't read the blurb)
- NB. a minority indicated that the offer to finish 'early = sense of respect for respondent

We recommend not presenting some questions as optional

- Presenting as optional encourages drop-outs among certain groups with potential for minor skews in results
- But presenting as mandatory has no material negative effect

...but having variants to enable a shorter questionnaire seems sensible

"Overall the survey is good....partly because I started it, I hadn't got bored, it's important, also respect...we've gotten this far...I want to do it"

Online, desktop

"I suppose in the hope that I would be able to say something more general about the service, because that specific journey was absolutely fine and that was not indicative of my experience with that company all the way along"

Online, deskto

"Because you had won me over [by that point] and I trusted the survey and probably because I still had a few minutes to spare! Also it was all relevant, and because I do so much travel I thought well hold on, no, these guys are trying to make travel better so let's give them my two penn'th"

Pape

"I look at that bar at the top right hand corner, the fact that it said 85% was okay for me"

Online, desktop

"Just to see if there was anything that I thought wasn't included"

Online, desktop

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"My answers could make a difference so it seems a bit silly to not bother. I mean if it had been an extra 10 pages ... but an extra couple on top didn't seem like too much for me to do"

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The softer side of passengers' experience:

New questions on trust and how people feel







How does a train journey make passengers feel?



% choosing each emotion



Relaxed

16%



Нарру

29%



Indifferent

32%



Bored

12%



Stressed

1%



No answer: 6%





2%



Worried 1%



Positive emotions and overall journey satisfaction correlate well





Strong inverse correlation between journey satisfaction and indifference in particular suggests that satisfactory journeys genuinely leave passengers feeling pretty good (when we ask them to think about it!), rather than simply being 'fine' as we have sometimes speculated previously for the meaning of 'satisfaction'

journey satisfaction (fairly/very)

Any apathetic emotion* vs overall journey satisfaction (fairly/very)





33 bdrc continental

...but negative emotions have much weaker relationship with satisfaction





70

60

50

40

30

20

10

0

*relaxed / happy

Relaxed

Happy

Angry Frustrated

Stressed

Worried

(R² values)

70

Strength of correlation between

0.79

0.74

0.48

0.08

0.04

0.00

overall journey sat and...

passengers left feeling positive

%

 $R^2 = 0.9109$



Do the emotions questions add value?



	Total	Very satisfied	Fairly satisfied	Neither / nor	Fairly dissatisfied	Very dissatisfied
Relaxed	16	28	13	3	 	2
Нарру	29	51	23	3	1	8
Indifferent	32	14	47	48	15	-
Bored	12	1	9	34	52	24
Worried	1	0	1	3	6	
Stressed	1	-	0	2	4	5
Angry	2	0	1	2	14	39
Frustrated	1	0	0	1	6	15

Although positive emotions simply tell a similar story to the 'overall journey satisfaction' question, **negative** emotions, though rare, highlight other elements of passenger experience

TOCs are generally quite good at making people "fairly satisfied" – but this often means they're left feeling indifferent. This may be the maximum, and appropriate expectation for many passengers, but **perhaps TOCs can still work harder to leave people feeling good even when they do generally satisfy on a basic level?**

Plus, qualitative feedback indicated that...

- Greater variety in question format/presentation may boost engagement
- Interpretation of images is fairly consistent and as intended

"It was about my expectations. I want the train to be on time, to be clean, and it was that so it was ok, but it wasn't exceptional, it was what I would expect"

(Indifferent, fairly satisfied overall)



Do passengers trust train companies?



% passengers trusting TOC travelled with today



No answer: 3%





Trust and overall journey satisfaction are correlated a little less strongly than positive emotions







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Evaluating respondents' experience of the survey to increase response











Evaluating respondents' experience of the survey to increase response:

The presentation of questions







Summary of feedback on the questionnaire



Generally, a favourable or 'no issue' reaction to layout and presentation



- Clear, looks straightforward
- Not explicitly praised as 'engaging'...but not criticised as daunting or very boring (like the old version)
- Professional, credible looking

trans	portfocus	with the way your request handled? Please select one answer only
transport Overall, ho	w satisfied were you with the way your request was handled?	Very satisfied
Your opinion of (S		Fairly satisfied
How would you rate Please select one answer f	Farly satisfied sector dissatisfied dissatisfied dissatisfied dissatisfied	Neither satisfied nor dissatisfied
1/16		Very dissatisfied
Very good Fairly good	Nertike good Faithy proc Very poor Did not used to ophoon	Don't know/no opinion
		**
1)

- Clear, clean
- Straightforward and easy
- Not 'exciting' (could more colour and questions layouts be used?)
- ...but bear in mind consistency = fast + easy to complete
- Few, and minor, specific issues for mobile



Improving the online survey experience







Drop out points through the survey, by completion device













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Evaluating respondents' experience of the survey to increase response:

Questionnaire content and scope







"Your journey today"





No issue with understanding that the questions relate to today's journey

...but many are concerned that we might miss more typical feedback

"I think it was pretty clear, the survey is quite specific when it wants you to think about your journey 'on this day'... the questions direct you quite straightforwardly to whether you need to be thinking about kind of an overall view or this particular occasion"

Paper

"The only thing I'd like is to make more comments about my general experience ... to compare this journey with others... the context, I think that is important to people... it takes quite a long time to do that survey and it's quite frustrating... I understand about sampling...but you have to do it on people's own terms if they're giving their time... it's very important that people feel you are listening to them"

Paper

The "any other comments" question is valued

"I liked the overall opinion question... say for example on a normal Saturday I might have got into London and everything was fine,... but my overall experience of the company [due to weekday commute] is not great so it's good to give people a chance to say, yeah this journey was great but in general there are other things here which should be noted"

Paper

Could we let respondents know up front that they will have this opportunity, both to appease frustration for those who do take part, and potentially limit drop-out?

> Most of the questions will be about the journey you were making when approached by the interviewer. However, if you would like to feed back about more general experience, there will be opportunity for this



The survey length





Despite the shortened pilot version, questionnaire length is still a common criticism

"Maybe there's too many questions...maybe the survey is a bit on the long side"

Online, desktop

"Shorter...it was a big thick document and if I'd have seen that [before I accepted it] normally I'd have said no, and other people even said to me, 'you're brave taking that on"

Pape

(and this is among those who have completed it <u>and</u> agreed to follow-up research)

(...It's not all bad, a few of our (warm) respondents had no issue with length, particularly on the paper version)

"It wasn't too long, the print was clear. Black ink on a white background, it was a lot easier to read than some fancy surveys I sometimes get from other people"

Paper

What can we do about it?

Really clear signposting upfront and throughout?



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- Your journey today
- Your experience at the station where you started
- Your experience on board
- ...etc



- Improvements to progress indicator (especially for grid questions)
- Additional variety within question format (within reason)
- Clearer notification that you can save and return later

(Suggestions are based on feedback from respondents and our observations, rather than direct suggestions from respondents themselves)



Does it matter that some people complete the survey <u>during</u> their journey?





Of all 26 core questions in the shorter version of the survey, in normal circumstances only 5 questions/statements within questions cannot be answered until towards end of journey



...and in most cases passengers have a very good idea of how to answer, within their first few minutes



If they're taking the time to provide feedback, passengers <u>want</u> their feedback to be accurate

"Sorry... if the answers were messy! – I had to go back and cross them [information provision] out because when we <u>were</u> delayed they suddenly went quiet"

- Punctuality
- Whether got a seat for all/part of journey
- Whether delayed
- Several Qs on how well delay was dealt with (typically relevant to c. 25%)
- Overall satisfaction

"...But there were a couple of questions that I left... about the journey itself that I wasn't able to answer, so I did a couple and finished it off when I got to work ... it was the stuff about the train itself, but all the stuff about the station, I do it every day so it was easy enough to answer those ones [while waiting for the train in the first place]."

Paper

Paper



Anecdotal feedback suggests response rate would drop off dramatically if post-journey completion was enforced (if it could be!)

"I think I've been handed them before, and I've just dropped them in my bag and haven't done anything with them, but [because I was delayed by 20 minutes] in this case I had time"

 \bigotimes

Recall of journey details and experience (especially if emotional Qs are included) is immediate if survey is completed then and there

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We strongly recommend no alteration to the current notional agreement, that respondents should be guided towards completing after their journey, with acceptance that many may not

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Summary...and what next?







> NRPS still gets a good review from passengers – in terms of purpose and overall respondent experience

Dual data collection

Offering both paper and electronic completion options does bring benefits:

- Broadens appeal and convenience to more passengers
- o ... in particular to visually impaired people
- Enables better completeness of response (fewer missed answers / mistakes)
- Has potential to increase representation of commuters and younger people, improving weighting efficiency and survey credibility
- Overall a dual approach enables higher volume recruitment = more efficient fieldwork

And increasing the contribution of online response could realise these benefits further – gains already made since learnings transferred from BPS Autumn '15

Note of caution: an online element does have potential to supress satisfaction ratings a little, but:

- We recommend the benefits of greater representation (a closer picture of reality!) outweigh this
- Weighting by journey purpose will control the effect, which is likely to be marginal paper likely to remain dominant over online for the foreseeable future



Key take-outs (2)

Questionnaire enhancements: shortening the survey

- Though difficult to completely separate the impact of data collection vs questionnaire enhancements, a shorter questionnaire does not appear to have contributed to response rate or quality (unlike a much more ruthless 4-page option might)
- ...however, logically, a shorter questionnaire is more palatable for respondents, and creating variants to achieve smaller (but still robust) samples for non-core questions is relatively straightforward

We recommend implementing the 8-page questionnaire with variants

- Deliberately offering non-core questions as 'optional' is appreciated by a minority, but by this point in the survey most are happy to continue
- ...and while minor, there is potential impact on results from these questions

Overall we recommend not offering questions as 'optional', and treating the full 8 pages as standard



Key take-outs (3)

Questionnaire enhancements: the softer side of passenger experience

Adding a new trust question has mixed outcomes:

- o Adds a different layer to understanding passenger relationship with rail industry
- Allows respondents to express broader opinions which is valued
- Disrupts and re-engages respondents
- ...but confuses some, and in extreme cases acts as 'last straw' if other questions have felt irrelevant or overall too long

On balance we suggest it's worth keeping – perhaps on an annual basis given sentiment unlikely to change quickly

Merits of the emotions question – as part of NRPS – are less clear:

- Positive emotions add relatively little to overall journey satisfaction
- But negative emotions can help highlight issues more keenly than the satisfaction rating, with a more personal flavour
- o Generally popular with respondents good for overall engagement and survey image

Is NRPS too blunt an instrument for effective capture and use of emotions data (at least on a regular basis)?



Key take-outs (4)

Optimising response

Response to the survey continues to be driven by:

- Opportunity for and perceived importance of feedback
- o Engaging interaction with fieldworkers
- o Measures to reduce respondent effort

....which must be front of mind in all development / enhancement of the survey going forward

And we suggest some enhancements to improve respondent experience, to maintain engagement and boost response:

- Further tweaks to early questions to reduce effort
- Up front sign-posting of survey content, especially the up-coming opportunity to give general (not just today's journey) feedback
- Indication of average completion time for online survey
- Various small programming / formatting tweaks to reduce niggles
- Full implementation of 'accessible' survey (with some programming improvements)





Thank you....



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