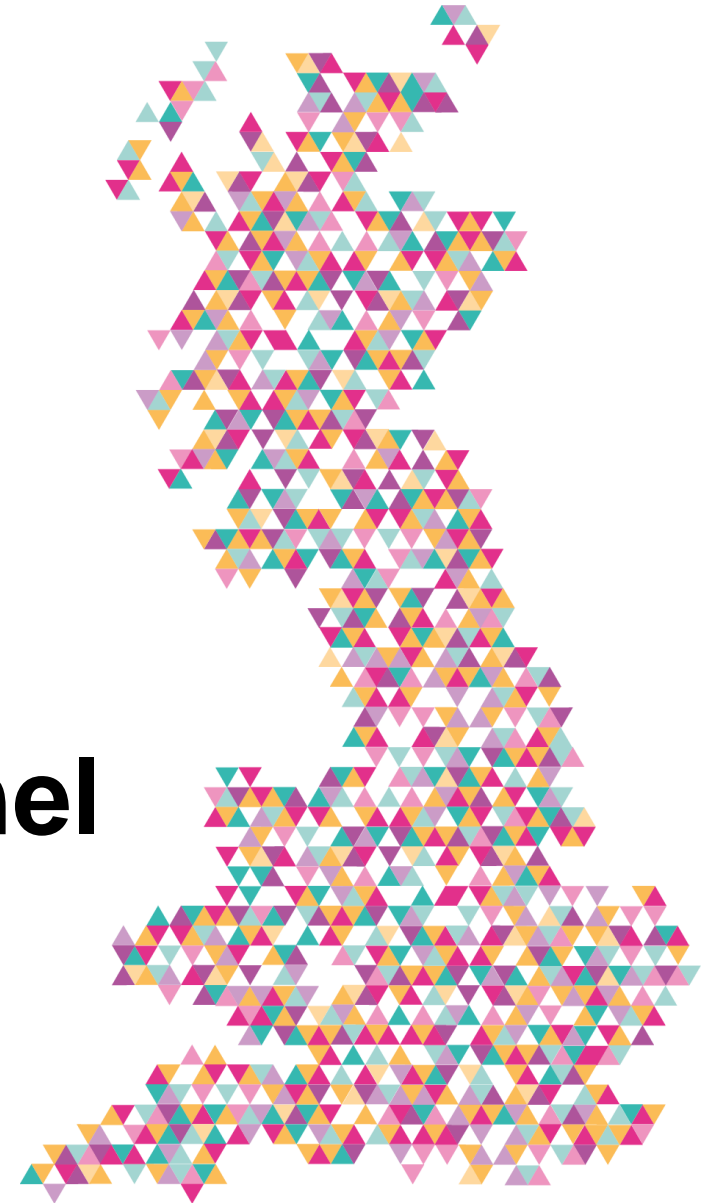


NatCen

Social Research that works for society

Transitioning a F2F survey to an online panel

Findings from a parallel run

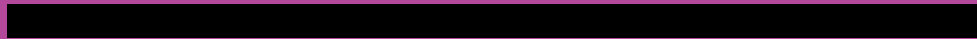




Contents

- Background
- Differences in estimates
- Trying to understand the differences
 - Measurement (mode)
 - Sample composition
- Summary & conclusions

Background



1



Context

- Department for Transport (DfT) interested in transitioning survey questions from large F2F surveys (BSA/NTS) to online (panel) surveys
 - Speed, cost, 'future-proofing'
- Aim of understanding what impact (if any) it might have on survey estimates/trend data
- 2017 field parallel run on BSA and NatCen panel
- Mostly attitudinal, but some behavioural questions on travel
 - Congestion, use of cars/bikes, willingness to use alternative transport to lower emissions, policies to reduce air travel, use of mobile phones while driving, speed cameras



Questionnaire content

- Mostly attitudinal, but some behavioural questions on travel
 - Impact of congestion
 - Use of cars/bikes
 - Willingness to use alternative transport to lower emissions
 - Policies to reduce air travel
 - Use of mobile phones while driving
 - Drink-driving
 - Speed cameras



Fieldwork summary

	BSA 2017	NCPanel Aug17
Fieldwork dates	July-October 2017	August-September 2017
Mode	Mixed: Face-to-face (F2F) & Paper self-completion (PAPI)	Sequential-mixed: Web & Telephone (Tel)
Sample size	2,963 (F2F) 783-848 (PAPI)	2,159
Response rate	45% (F2F) 36%-38% (PAPI)	15%

Differences in estimates



2

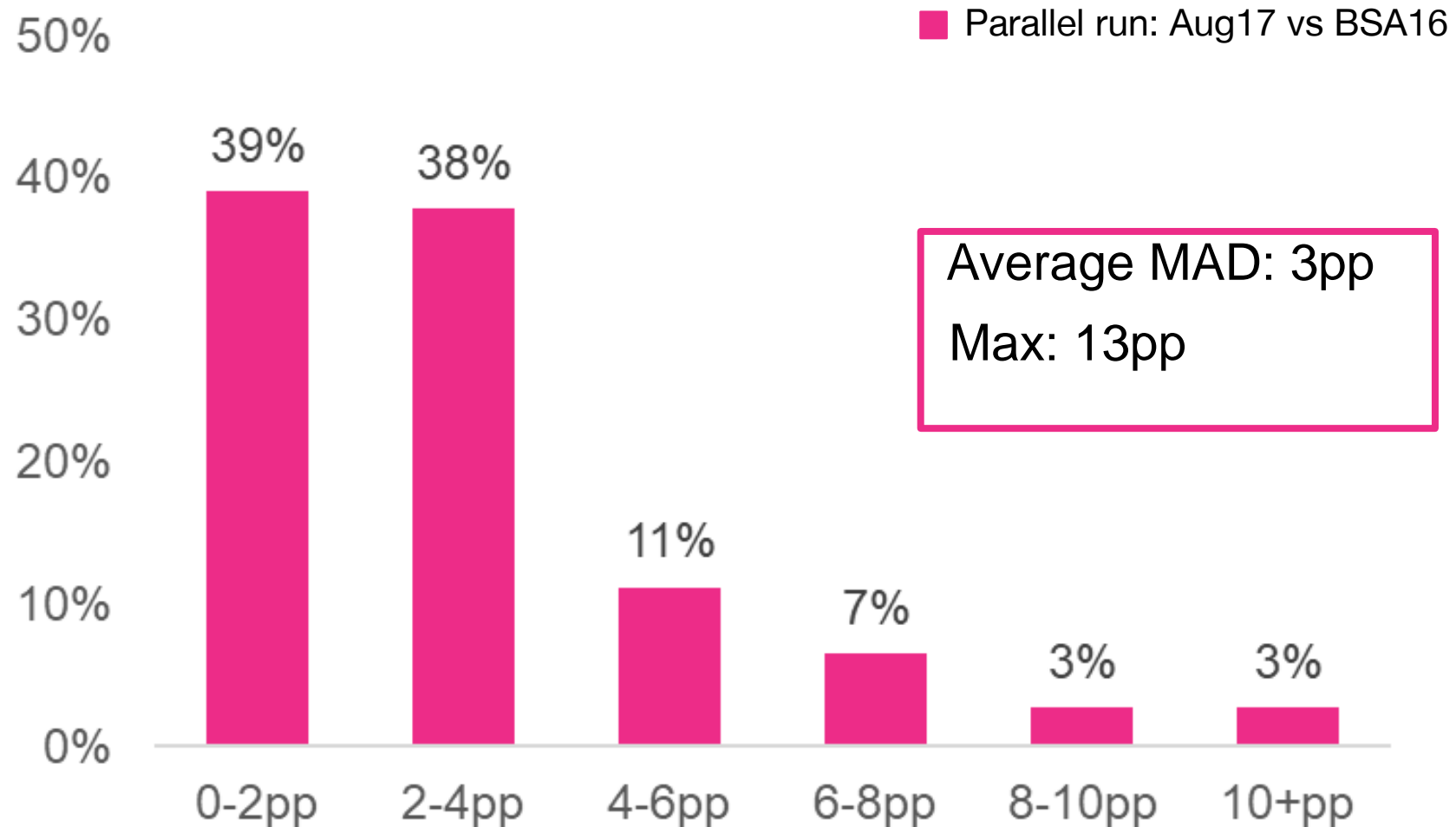


Analysis approach

- Compare weighted estimates for BSA and NCPanel
- 44 variables/questions, 259 categories
- Look at differences in percentage-point estimates at category-level
- Lots of different variables so will use some summary variables
 - Mean absolute difference (MAD)
 - Maximum absolute difference
 - % categories with differences 0-2, 2-4, 4-6, 6-8, 10+ pp



Size of difference in point estimates





Patterns in differences?

- *Broad* trend of NCPanel more concerned about environmental impact of travel, but less support for enforcement of road rules (using mobile phones/speed cameras)
 - But varies from variable to variable in direction and strength
- Less difference in 'behavioural' questions
 - E.g. Whether drive, number of cars owned, whether fly
- Greater difference with PAPI than F2F
 - F2F: 16% differences >4pp
 - PAPI: 26% differences >4pp

Understanding differences: Measurement (mode)

3



Changes in design of questions

- Spontaneous, hidden, and prompted answer categories
 - Cannot use 'spontaneous' answers in PAPI/web
 - Cannot used 'hidden' answers in PAPI
- In web we randomly reverse answer scales to reduce primacy effects
 - Not possible (easy) in F2F/PAPI where use printed showcards/questionnaires
 - Interaction between question type & device type



Do they explain the differences? (1)

DK/REF options

■ F2F vs Web/CATI

- No differences of 1+pp in % selecting DK/REF options

■ PAPI vs Web/CATI

- Web: consistently <1% selecting DK/REF
- PAPI: average 3% 'Can't choose' and 3% left blank

Spontaneous options

■ F2F vs Web/CATI

- Average of 3% selected spontaneous categories that were dropped
- Average 3pp difference when shown up-front



Do they explain the differences? (2)

Randomising answer scale direction

- Saw expected primacy effect in web survey
- No indication 'reversed' categories show more or less difference
 - No differential impact for F2F/PAPI



Measurement: summary

- ‘Designed’ elements of measurement do have some impacts, *but...*
 - Impact varies between questions
 - Don’t explain level of difference
- Rest may be explained by...
 - Other elements of measurement (e.g. impact of social desirability bias, panel conditioning, etc.)
 - Sample composition...

Understanding differences: Sample



4



Differences in sample composition

- Non-response may introduce bias to survey samples if some types of people are more likely to take part than others
- Participating NCPanel sample has a different profile to BSA sample (Jessop, 2018).
 - E.g. more educated, higher social grade
- Most of this is addressed in non-response weights
- *However* – impacts of ‘hidden’ bias/bias within weighting categories?

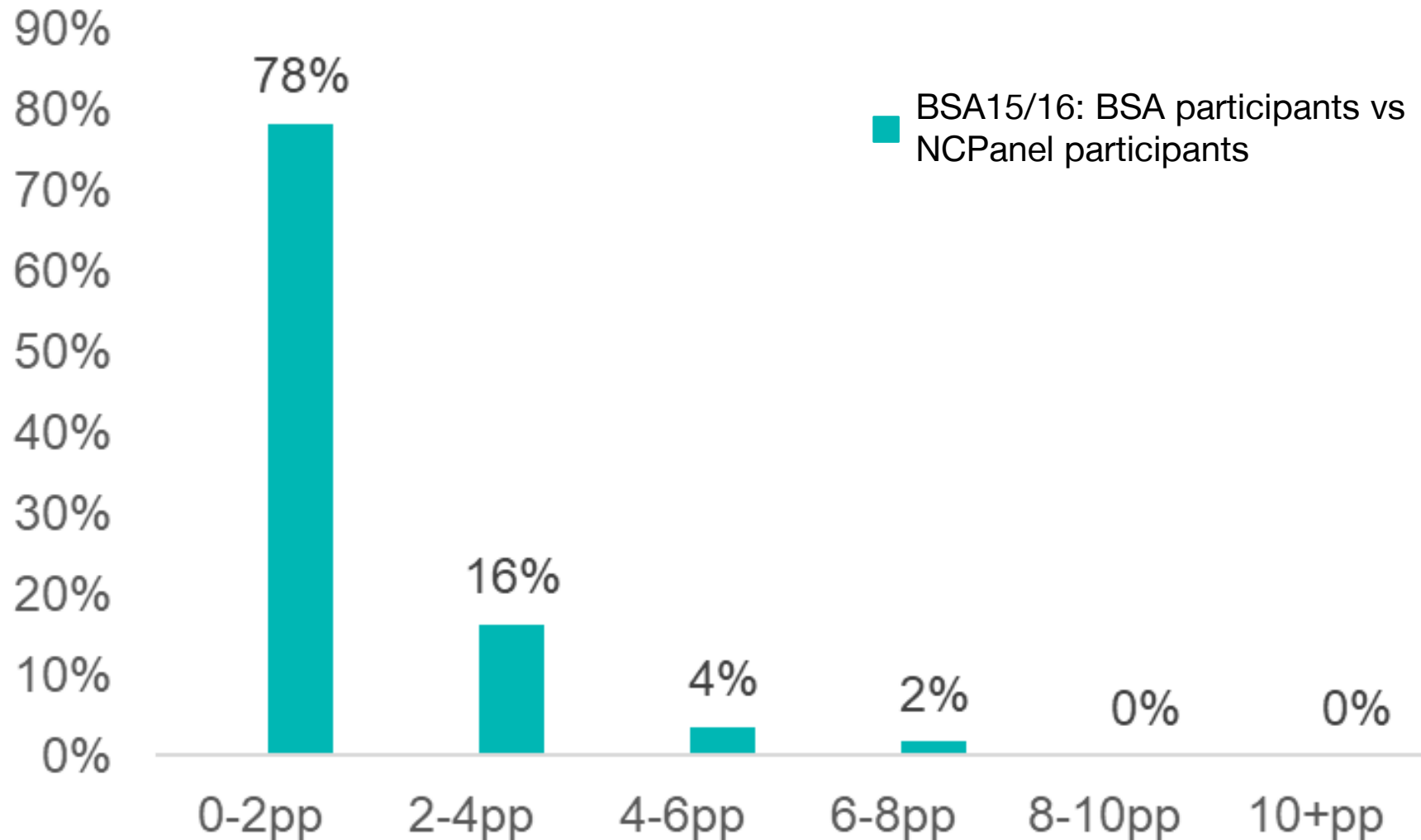


Analysis approach

- NCPanel members were asked the same questions in their original BSA interviews (2015, 2016)
- Compare weighted BSA 2015/2016 estimates for full sample to weighted estimates using just those who took part in Aug17 NCPanel
 - Allows separation of sample composition from issues of measurement

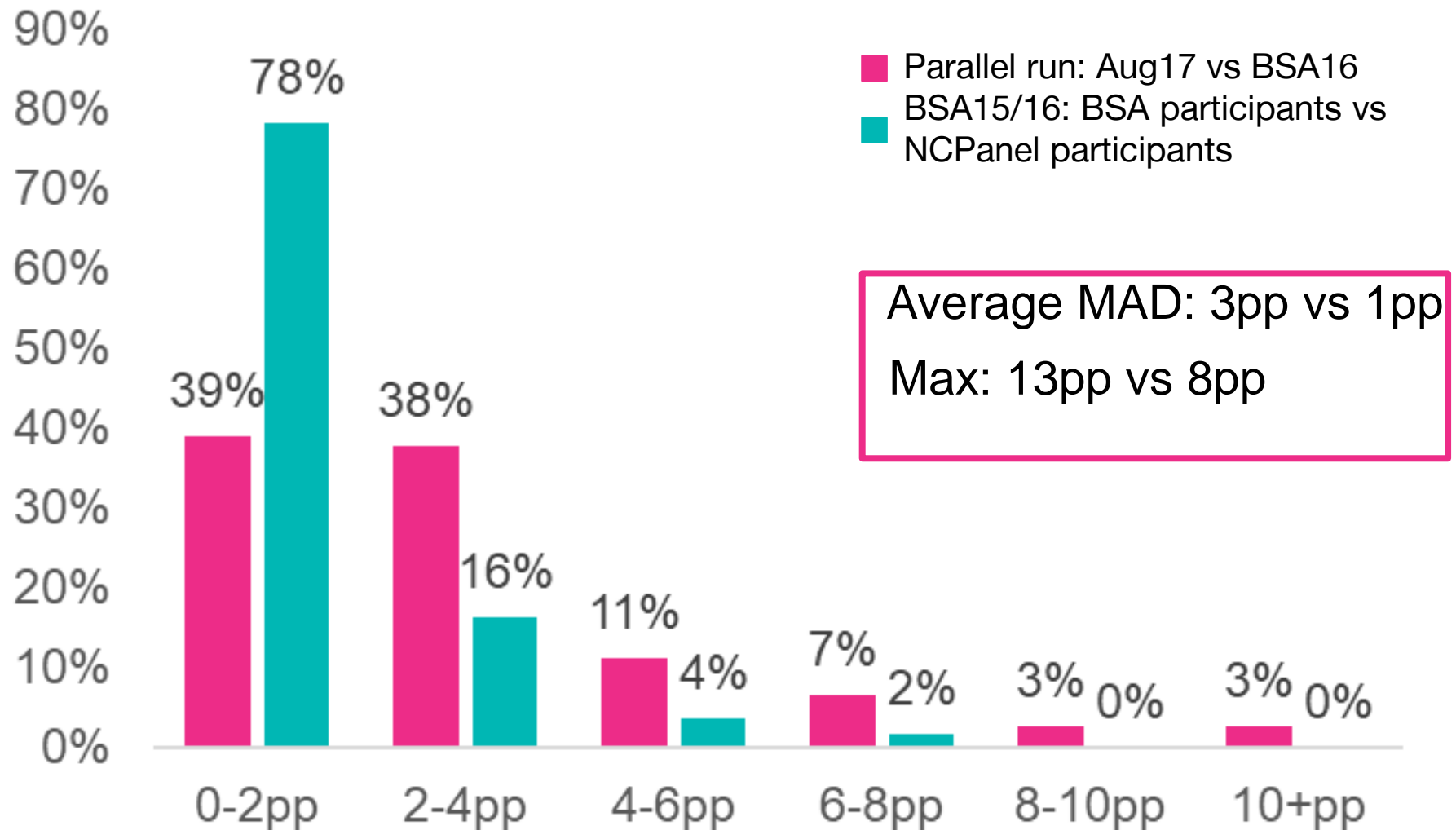


Size of difference in point estimates





Size of difference in point estimates



Summary & conclusions

5



Summary

- Parallel run found that while many estimates were comparable, there were some substantial differences
- Marginal non-response bias does not explain these differences
- ‘Designed’ changes in measurement sometimes make some impact, on some questions
- Much of the difference remains unexplained
 - Social desirability? Panel conditioning? Panel age? ...?



Conclusions

- Parallel runs important when transitioning surveys to understand impact of design change on estimates
- Importance of taking the time to properly consider the impacts & how to mitigate them
 - Tension with goals of time/cost savings
- Should evaluation of impacts of changes happen at question-level?
 - Intersection of many traits
 - Challenge for developing ‘best practice’

Thanks!

Curtis Jessop

Research Director

curtis.jessop@natcen.ac.uk

@CurtisJessop

NatCen

Social Research that works for society

