
Developing Quick Expenditure Questions

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Motivation:

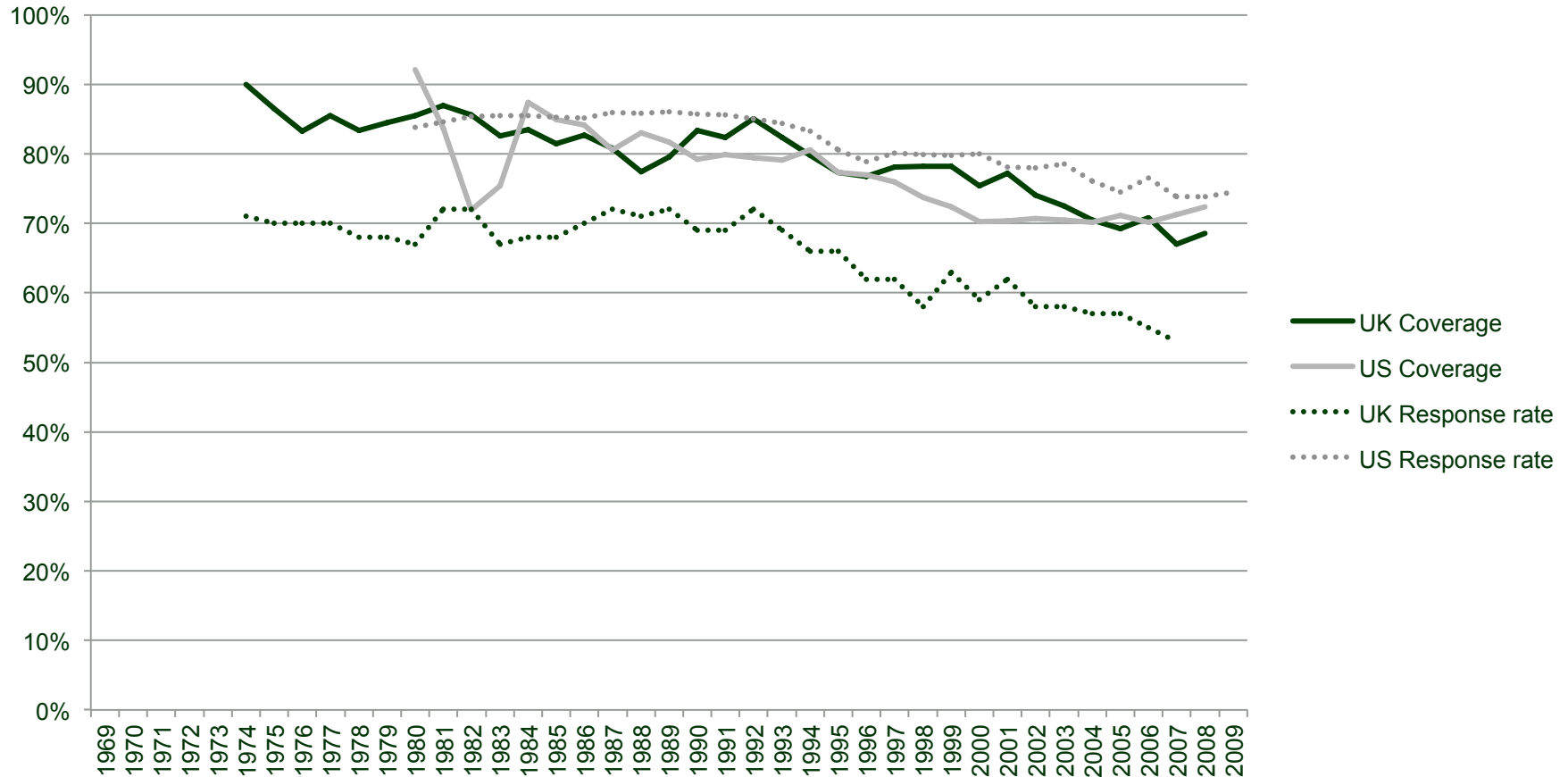
Why Measure Household Consumption Expenditure?

- How has the well-being of the poor evolved over time?
- How well insured are households against job loss? Disability? Major changes in the economy?
- How do consumption and saving respond to interest rates?
- Do tax-favored savings accounts generate net new savings?
- Do house price movements have a causal effect on consumer spending?
- How effective are tax rebates and other payments for fiscal stimulus?
- How can we have confidence in the models we use for macro policy analysis?

Aren't Budget Surveys Sufficient?

- Limited information in other domains (health, employment, time use.....)
- Not longitudinal (often interested in *changes*)
- Some concerns with sustainability of budget surveys
 - Will budget surveys be able to continue to meet many needs?

Response Rates and Coverage of Household Expenditure in National Accounts, UK and US budget surveys



Source: Barrett et al. A comparison of micro and macro expenditure measures across countries using different survey methods, NBER Working Paper 19544

Possible Approaches

1. Administrative data.
 - Leading possibility is tax data on income and wealth.

$$x_{t,h} \approx y_{t,h} - [w_{t+1,h} - w_{t,h}].$$

2. Ask a subset of expenditure categories and impute total expenditure at the household level
3. Ask a subset of expenditure categories and estimate objects of interest directly (Browning and Crossley, 2009)
4. Capture total expenditure with a small number of questions in general social surveys (especially longitudinal surveys)

Possible Approaches

1. Administrative/tax data.
 - Requires universal filing, collection of wealth data....
2. Ask a subset of expenditure categories and impute total expenditure at household level
 - Requires external information on spending relationships
3. Ask a subset of expenditure categories and estimate objects of interest directly
 - Requires external information on spending relationships
4. Capture total expenditure with a small number of questions in general social surveys (especially longitudinal surveys)
 - Our topic today

Quick Survey Questions to Measure Expenditure: Background

- Past experience with a 'one-shot' question in Canada, Italy, Spain, US, Netherlands:
 - High response rates (except for complex households)
 - Useful data, patterns align with budget survey data
 - Evidence of under-reporting
- Some trials of 'breakdown' approach in web mode (US, Netherlands)
 - Evidence that a reconciliation screen or expenditure check improves the data
- We compared a 'one-shot' and breakdown approach in the first wave of the Innovation Panel of Understanding Society (IP1)
 - high response rates but evidence of very significant underreporting for the one-shot question
 - Cognitive testing suggested problems with the questions

Design of the Current Project

- Focus groups to explore how households think about spending, feasibility of different approaches to collecting total household expenditure
- Consultation with experts
- Question development with two rounds of cognitive testing
- Testing in existing large scale social surveys
 - So far: UKLHS IP6
 - A 'one-shot' approach and a 'breakdown' approach

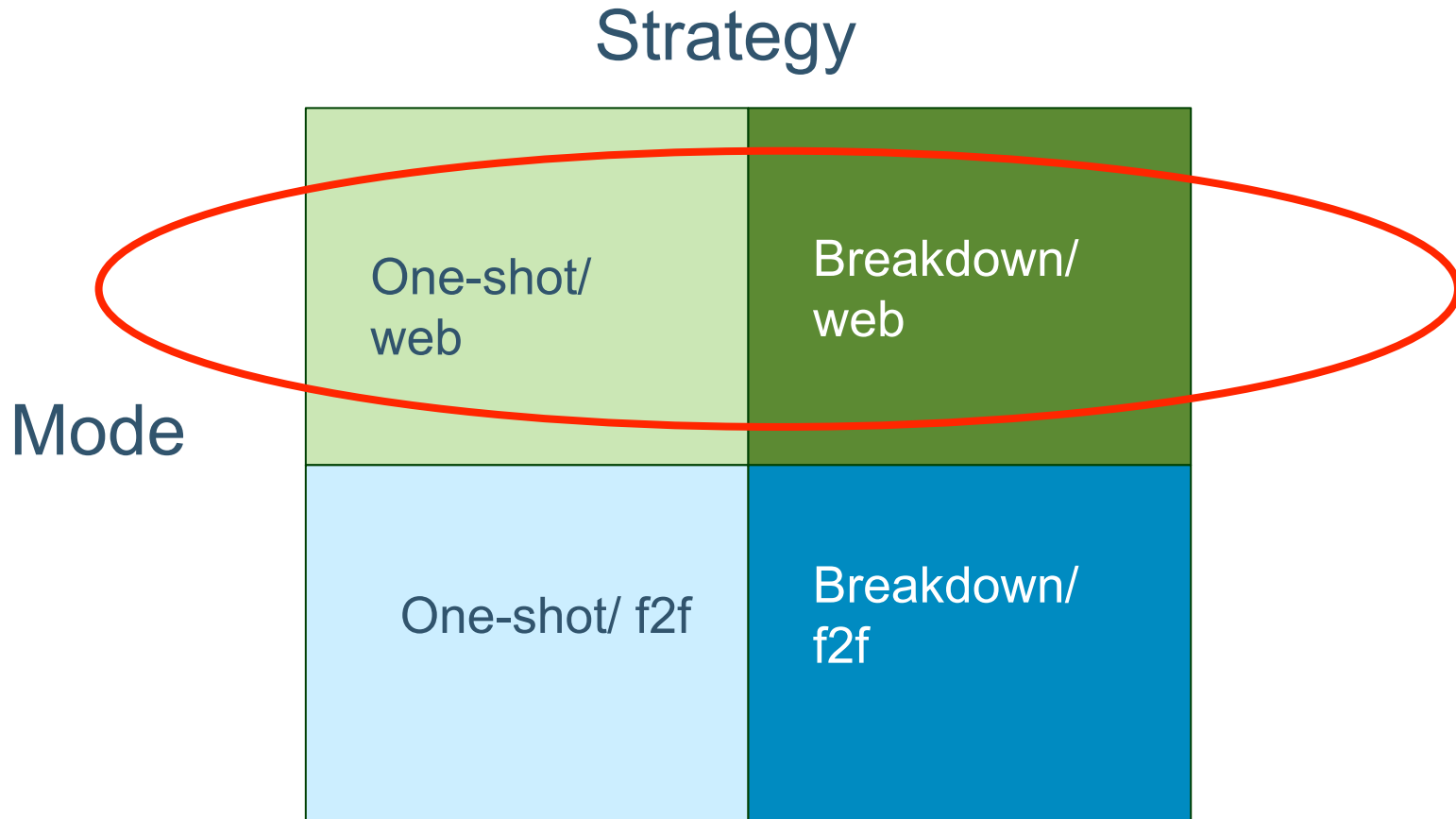
Remainder of the Session:

- Results from the Focus Groups and Cognitive Testing (Jo and Margaret)
- Preliminary results from the IP6 experiment (Tom)
- Discussion

IP6 Experiment – Context

- Understanding Society is a major longitudinal survey of UK households
 - 40,000 individuals (aged 10 and over) surveyed annually (mixed mode)
 - Broad range of content
 - Began in 2008. Follows on from (and incorporates) the British Household Panel Survey
- Separate ***Innovation Panel*** of 1500 respondents for testing and development
- Our experiment in Wave 6 of the Innovation Panel (IP6)
 - Fieldwork Feb-July 2013

IP6 Experimental Design - Overview



Question details are on your handout

IP6 Experimental Design

– Additional Elements

- One-shot
 - Examples and exclusions shown underneath the answer box
 - Strategy: *How did you work out your answer to the spending question?*
 - Usual spending follow up: *Would you say your spending last month was: higher than usual, lower than usual, typical of a usual month's spending?*
 - If higher/lower: *how much do you [and X] spend on everything in a usual month?*
- Breakdown
 - Reconciliation: *So in total in the last month you [and X] spent [total] pounds. Does that sound right?*
 - If no: *How much did you [and X] spend in the last month?*

IP6 Experiment – Item Response

	'One-shot'	'Breakdown'
n	233	203
Valid responses	195 (84%)	
Don't know	19 (8%)	
Refused	19 (8%)	
Valid responses - at least one category		189 (93%)
Valid responses – all categories		140 (69%)

‘Breakdown’– Item Response Detail

Number of responses	
13 Categories (all)	69%
10 or more	82%
At least one	93%

Highest item non-response	
Other	25%
Gifts	19%
Childcare	18%

- ‘refusals’ exceed ‘don’t knows’ for all categories except ‘other’

One-shot Question: Last Month vs. Usual Month

	Initial respondents	Initial non-respondents
Higher than usual	35	7
Lower than usual	14	1
Typical of usual	146	27
There is no usual	0	1
Nonresponse	0	2
Total	195	38

	Last month	Usual month
n	195	197
mean	2260	1646
median	1600	1500
Std. dev.	4239	896

One-Shot Questions: Strategies

(not mutually exclusive)	
Checked statements	28%
Added up categories	35%
Income minus saving	24%
Recall without checking	21%
Other	5%

Breakdown Approach: Responses to the Expenditure Check

	Yes	No	Nonresponse	Total
All 13 categories	135	5	0	140
1-12 categories	36	9	4	49
Total	171	14	4	189

	Before check	After check
n	189 (140)	183
mean	1840	1807
median	1520	1570
Std. dev.	1616	1265

Comparing Approaches

	‘One-shot’	‘Breakdown’
n	197 / 233 (85%)	183 / 203 (90%)
mean	1646	1807
median	1500	1570
Std. dev.	896	1265

- Recent LCFS: average monthly *household* spend about £2040

Conclusions So Far

- In web mode, and as designed and tested, the `one-shot' question seems to be as good as the `breakdown' design
 - Lower cost and burden
 - Response rate of break-down question reaches that of the `one-shot' question only if the expenditure check is included
 - Average `one-shot' report is not much lower, but lower variance
- Significant improvement from IP1
 - (mode?)
 - value of integrated approach

Conclusions So Far

- Focus groups and cognitive testing suggest advantages of `one-shot':
 - Break-down more difficult for some respondents and more sensitive for some
 - For one-shot respondents can self-select an answer strategy
- Focus groups and cognitive testing also identified key improvements to the `one-shot' question
 - Showing examples
 - Choice of response unit
 - Avoiding problem language (particularly around `household' spending)

Thank you

If you want further information or would like to contact us:

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