Consumer Expenditure Survey Research & Plans for the Future

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Presentation Overview

- 1. Background
- 2. Gemini Project Redesign Objectives
- 3. Focus of Recent CE Research
- 4. Gemini Project Design Team Plans
- 5. Use of CNSTAT's Report



Continuous Survey Improvement Process

- Biennial CEQ instrument revisions
- 2013 Inc Tax Estimation w/NBER Calculator
- 2009 Telephone thresholds (CEQ)
- 2005 Diary keying and auto-coding system
- 2005 User friendly diary form
- 2005 Contact History Instrument (CHI)
- 2004 Income imputation
- 2004 CAPI (CED) demographics and income
- 🛫 🛯 2003 CAPI (CEQ)

Redesign Objectives

- Reduce measurement error, and in particular, underreporting
- Reduce burden
- Hold neutral, or reduce, costs
- Monitor redesign results



Focus of Recent CE Research: Reduce Measurement Error

- Reduce number of interviews
- Reduce interview length
- Reduce reference period length
- Reduce proxy reporting
- Maximize record use & minimize recall
- Incorporate new technology
- Incorporate multi-mode interviewing



Focus of Recent CE Research: Reduce Burden

- Reduce number of interviews
- Reduce interview length
 - Streamlining the questionnaire
 - Split questionnaire research
 - Global questions
 - Diary to interview imputation
 - Backcasting
 - Within quarter imputation
 - Auxiliary source data



Focus of Recent CE Research: Reduce Costs

- Reduce interview length
- Reduce number of interviews
 - For example, eliminate the bounding interview



Focus of Recent CE Research: Monitor Redesign Results

Data Quality Profile

A consistent, well-defined set of metrics can be used to establish baselines for monitoring trends in the quality of survey activities and evaluate the impact of survey design options

Measurement Error Analysis

 Determine sources of measurement error on expenditure reporting and develop a methodology for tracking and evaluating changes in measurement error due to design changes



Burden Index

Measure the effect of alternative design options

In-Progress & Planned Research

In-Progress & FY2012

- Records Information & Feasibility
- Web Diary Test, Individual Diary Test

<u>FY2013</u>

- Redesign Monitoring
- Redesign Feasibility Testing

FY2014

Additional Redesign Feasibility Testing



Additional Analyses of Completed Studies

Gemini Project Design Team

- Initiated in July, 2012
- Joint team with the Bureau of the Census

Objective

Create a single proposal for a redesigned CE that expects to result in a verifiable reduction in measurement error

<u>Scope</u>

 Synthesize inputs from 2009-12 Gemini Project activities, as well as from independent design proposals (Abt-SRBI, CNSTAT, University of Nebraska, University of Wisconsin, Westat)

Gemini Project Design Team: Timeline

- Jul 2012 Kick-off
- Oct 2012 Data collection recommendations, by quex group
- Nov 2012 Redesign proposal outline (i.e., table shell)
- Nov 2012 Decisions regarding independent design proposals
- Dec 2012 Summary of FR, Census, BLS staff redesign ideas
- Dec 2012 High level decisions re: survey redesign elements
- Feb 2013 Present update at CE Annual Meeting
- Feb 2013 Detailed overview of proposed redesign elements
- Mar 2013 Draft redesign proposal report
- Jun 2013 Final redesign proposal report



Gemini Project Design Team: Challenges

- Synthesizing research results into a comprehensive redesign plan
- Budget for research, testing, evaluation, and implementation
- Sample size requirements
- Timing of research findings
- Pace of social & technological change



Pace of change.... January 12, 2012: "In Seoul, a virtual grocery store in the subway" (CNN Online)





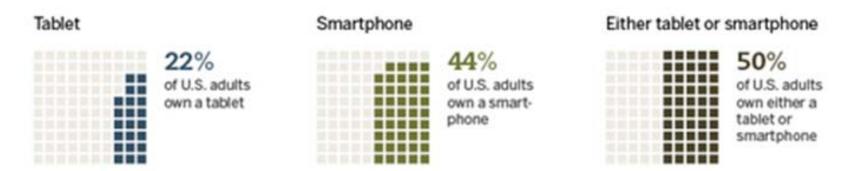
October 8, 2012: In Forest Glen, a virtual grocery store in the subway (Washington, DC suburbs)





"Half of U.S. adults now own a tablet or smartphone" (PEJ, 2012*)

The Growing Mobile Landscape



* "The Explosion in Mobile Audiences and a Close Look at What it Means for News" A. Mitchell, T. Rosenstiel , L. Houston Santhanam of PEJ, and L. Christian of the Pew Research Center October 1, 2012



CNSTAT Report: Value

High-level thinking, justification, and guidance from nationally-recognized experts in economics, statistics, and survey methodology on factors affecting the quality and cost of CE data, and improved options for collecting those data, culminating in:

- Concurrence on Issue Areas
- Broad Recommendations
- Specific Design Proposals
- Cost Estimates for Maintaining Budget Neutrality
- Advocacy for Additional Resources



CNSTAT Report: Promising Design Features

- One sample design
- Flexible recall periods & interview structure
- Increased use of technology, e.g., tablets
- Use of tech to encourage 'in the moment' reporting
- Increased reliance on self-administration
- Increased use of records
- Reduce proxy reporting
- Mixed mode data collection
- Large incentives
- Modular design, with a core survey



CNSTAT Report: Panel's Recommendations

- 6-01 Prioritize CE Data Uses for Redesign Trade-offs
- 6-02 Implement a Major Redesign (\$)
- 6-03 Fund Several Major Feasibility Studies (\$)
- 6-04 Sync Reference Periods for Exp & Non-Exp Items
- 6-05 Use Tablet for Self-Administration (w/Paper) (\$)
- 6-06 Develop a Redesign Roadmap within 6 Months
- 6-07 Use Incentives (\$)
- 6-08 Pursue a Long-Term Research Agenda
- 6-09 Increase Size & Capability of Research Staff (\$)
- 6-10 Engage Outside Experts in App Dev (\$)
- 6-11 Target Research on CNSTAT Recommended Topics
- \dot{LS} 6-12 Fund a Methods Panel (or Research Sample) (\$) ¹⁸

Thank You, from CE to CNSTAT!





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