



Mixed Mode Data Collection Strategies in Surveys

Edith de Leeuw
Utrecht University MethodikA

Mixed Mode Data Collection in Comparative Social Surveys

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Survey Research



- Methods of data collection
 - Face-to-face interviews/ CAPI
 - Telephone interviews/CATI
 - Self-Administered Questionnaires (SAQ)
 - Mail surveys
 - Diaries
 - CASI
 - Web / Internet



Why Mix Modes?



- Optimize data collection procedure
 - Research question
 - Population
- Reduce total survey error
- Respect survey ethics/privacy
- Within available time
- Within available budget



Best Affordable Method

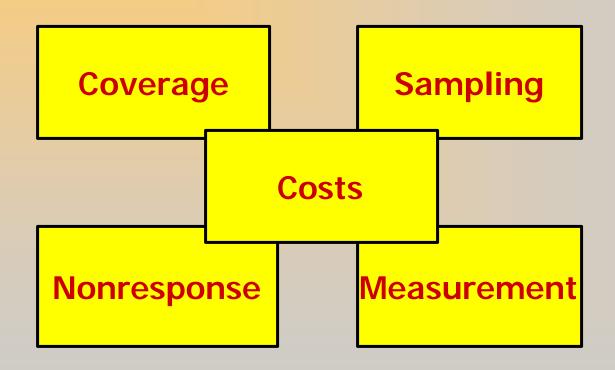


- Mixed-mode explicit trade-off
 - Costs
 - Errors
- Example: Nonresponse follow-up
 - Mail survey
 - Telephone follow-up
 - Face-to-face for sub sample of remaining nonrespondents



Balance Costs & Errors

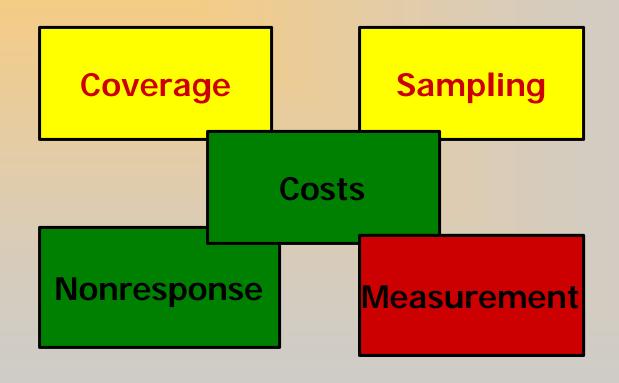






Survey Nonresponse MA **Mixed Mode**

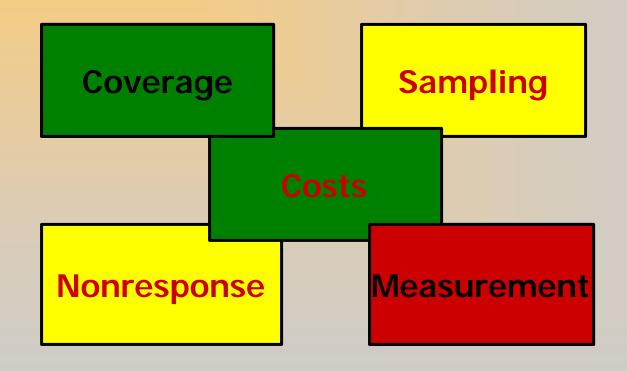






Second Example Web MA







To Mix or Not to Mix MA



- Mixing modes has advantages, but
 - Will the answers provided by respondents differ by mode?
 - Can data that are collected through different modes be combined in one study?
 - Cross-sectional?
 - Longitudinal?
 - Can data that are collected through different modes be compared over studies or countries?



Multi Mode Survey Systems



- Survey more than data collection
- Communication with Respondent
 - Contact Phase
 - Pre-notification
 - Screening
 - Data collection
 - Follow-up
 - Reminders
- Mixed-modes of Communication in One Survey System!

Contact Phase Advance Notification Different Mode from Data Collection

Rationale

Effect on Quality

- Correct sampling frame
- Raise response rate
- Enhance credibility and trust

- Reduce coverage and nonresponse error
- No threats to measurement if data collection itself is UNImodal

Contact Phase Recruitment / Screening Different Mode from Data Collection

Rationale

Effect on Quality

- Reduce costs
- Enhance efficiency
- Update or expand contact information for main mode

- Improved timeliness
- If pure screening (data collection itself is UNI-modal) no threats to measurement
- If screening plus first part of data collection different from main mode:
 - risk of mode effects
 - threat to measurement

Follow-up Phase Reminder(s) in Different Mode from Data Collection

Rationale

- Simple reminder, such as postcard, short telephone call, etc has low costs
- Raise response rate

Effect on Quality

- Reduce nonresponse error
- If pure reminder, letter, call (data collection itself is UNI-modal) no threats to measurement
- If reminder plus additional questions, part of data collection different from main mode:
 - risk of mode effects
 - threat to measurement



Data Collection Phase MA



- Mixed mode for interaction in Contact Phase and Follow-up Phase mostly Win-Win situation
- More complicated in Data Collection Phase
- Only win-win situation in mixing interview mode with SAQ for sensitive questions
 - E.g. CAPI/CASI
 - Interviewer guidance for non sensitive questions
 - More privacy, less social desirability sensitive questions



Implications Mixed Mode

- Risk
 - Introducing mode effects in data set
- Result:
 - Increasing measurement error
- However:
 - Reduction of other errors
 - E.g., Coverage in web-mail
- Careful consideration needed
- Careful design for optimal mixed mode



Problems Mixed Mode MA in Data Collection Phase

- Incomparability
 - Changing methods over time in longitudinal surveys
 - Confounding of time effects and mode effects
 - Different subgroups different modes (e.g. nonresponse follow-up, web mixes)
 - Confounding
 - Are groups different or is it mode effect (e.g. Soc. Des.)
 - Different samples, different modes (e.g.,comparative research, international)



Main Differences Modes MA



- Presence or absence of interviewer
- Channels of communication
 - Aural (Oral) vs. Visual

- Also:
 - Different modes, different tradition question format
 - Question format effects!



Design for Mix



- Some studies found hardly any effect mixing
 - Well designed experiments!
- Two Situations:
 - One main method, other methods auxiliary
 - Nonresponse follow-up. Some longitudinal designs
 - Truly multiple mode design: modes equally important
 - Web mix. Respondents may choose



Design for Optimal Mix



- One main method, other methods auxiliary
 - Use main methods to its maximum potential
 - Auxiliary methods equivalent (e.g. same # response categories, same format) perhaps suboptimal, but avoids measurement error
- Multiple mode design: equally important
 - Uni-mode design
 - Same question in same lay-out
 - Universal or generalized design
 - Same stimulus



Finally



- Designing for Mixed modes
- Embedding small experiments / mode comparisons
- Empirically based adjustment
- Research agenda for future

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