SURVEY AS RESEARCH METHOD

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PURPOSE OF SESSION

To explore survey as a research method

Research strategies

- select
 - Experiment variables; hypotheses
 - Survey questionnaires; quantitative data
 - Archival research admin records & documents
 - Case study phenomenon in its real life context
 - Ethnography study groups
 - Action research iterative process of inquiry
 - Grounded theory develop theory inductively
 - Narrative inquiry collect & analyse complete stories
- Or a combination of strategies

WHAT IS A SURVEY



- Gathering of a sample of data or opinions considered to be representative of a whole group or population.
- Information is collected primarily by asking questions.
- Information is collected from a sample (or portion) of a population.

Therefore, survey research is about asking questions about...

Setting out to describe what is?

- Behaviors
- Opinions/Attitudes
- Facts
- Beliefs

Ways to ask these questions:

- Telephones
- Interviews
- Mail
- Internet

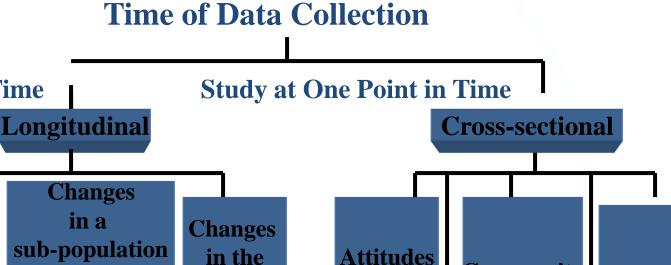


Topics appropriate for survey research

- Descriptive, exploratory, and explanatory
- Units of analysis = respondents
 - Respondents A person who provides data for analysis by responding to a survey questionnaire.
- Large samples, original data, measuring attitudes and orientations



Types of survey designs?



Trends in the same population over time in a sub-population by a common characteristic over time

Trend

Cohort

over time

same

people

Panel Group Comparisons

and

Practices

roup National parisons Assessment

Community

Needs

Program

Evaluation

KEY CHARACTERISTICS OF SURVEY DESIGNS

- Sampling from a population
- Collecting survey data through questionnaires or interviews
- Designing instruments for data collection
- Obtaining a high response rate
- Designing and using a mailed questionnaire
- Conducting an interview survey

POPULATION, TARGET POPULATION, SAMPLING FRAME, SAMPLE

Warning: Bad Sample = Bad Data

The Population

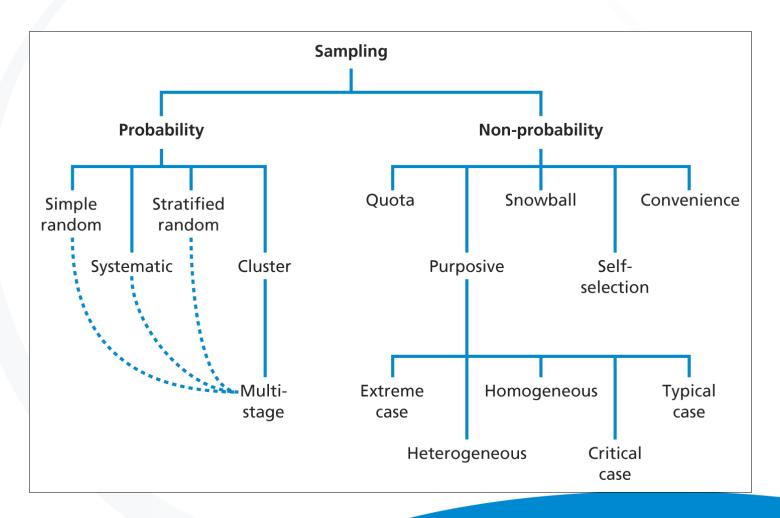
is the group of individuals having one characteristic that distinguishes them from other groups.

The Target Population or Sampling Frame is the actual list of sampling units from which the sample is selected.

The Sample

Is the group of participants in a study selected from the target population from which the researcher generalizes to the target population.

Selecting Samples



COLLECTION DATA IN SURVEY RESEARCH

Survey data can be collected using two broad categories: the **questionnaire** and the **interview**.

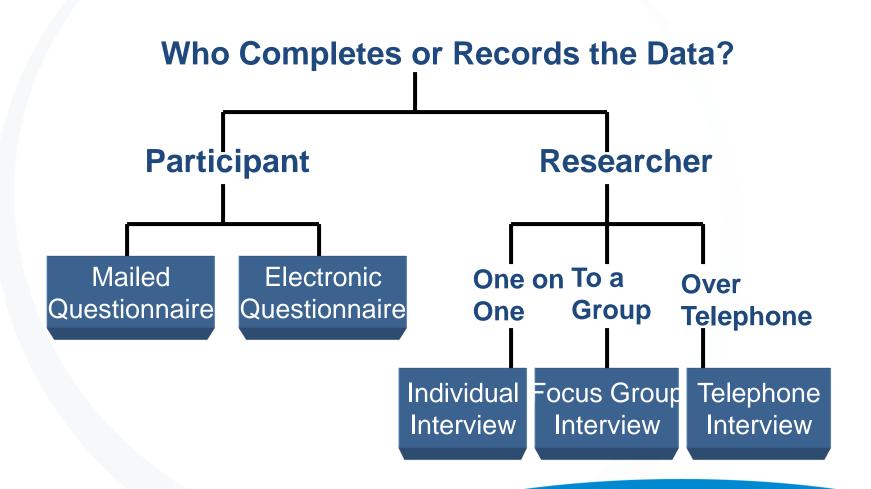
Questionnaires: Usually paper-and-pencil instruments that the respondent completes.

Interviews: Completed by the interviewer based on the respondent says.

Collecting data through questionnaires

- Mailed questionnaires
- Electronic questionnaires
- One-on-one interviews
- Focus group interviews
- Telephone interviews

Forms of data collection in survey research



Group administration of questionnaire

Advantages

- Many respondents can complete the questionnaire in a short space of time
- Test administrators can check questionnaire for accuracy
- Relatively cheap and easy to do.
- Respondents can be reached across long distances.
- Response rate optimal
- Interviewer can assist immediately is question is unclear

- When managed by different administrator, it could lead to different responses.
- Primary researcher has limited control over what happens in the field.
- Condition over which questionnaire is administered cannot be controlled by primary researcher.
- Costs could be rather high when using standardised tests.

Mail/Postal survey

Advantages

- It is relatively cheap and easy to do.
- Respondents can complete the questionnaire at a convenient time.
- Respondents can check personal records if necessary.
- There is no interviewer who may affect the respondent.

- Low response rate are very common.
- The conditions under which the questionnaire is completed cannot be controlled.
- No one can assist with problems the respondents may have.
- The respondent can give the questionnaire to someone else to complete.
- Respondents must be literate.

Telephone survey

Advantages

- The survey can be done relatively quickly.
- Respondents can be reached across long distances.
- The response rate is usually very high.
- The interviewer can assist with issues that are not clear to the respondent.
- Respondents need not be literate.

- The cost is relatively high.
- The questionnaire cannot be too long.
- Only people with telephones can be reached.
- The interviewer may influence responses (interviewer bias).

Face-to-face survey

Advantages

- This method has the highest response rate.
- Long questionnaires can be used.
- The interviewer can assist with issues that are not clear to the respondent.
- Respondents need not be literate.

- The cost is usually very high.
- Interviewers should be well trained.
- Interviewers bias is a great risk.

DESIGNING QUESTIONNAIRE

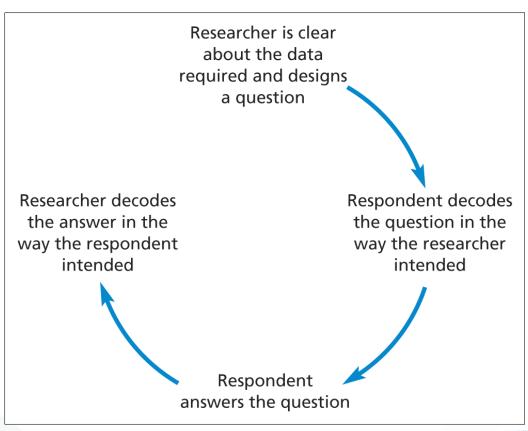
The way a question or statement is worded and the response options offered determine the nature of the data received.

Bad question = Bad data



Designing the questionnaire

Stages that must occur if a question is to be valid and reliable



Designing the questionnaire

Open-end Questions

Respondents write question response in own words

Closed-end or Forced-choice Questions

- Respondent selects question answer from among a list of possible responses
- An example of a close-ended survey question would be, "Please rate how strongly you agree or disagree with the following statement: 'I feel good about my work on the job.' Do you strongly agree, somewhat agree, neither agree nor disagree, somewhat disagree, or strongly disagree?"

Examples of closed and open questions

Closed question

Why don't you eat ice cream at Fictionals Ice Cream Parlour? (Choose at least one answer.)

I don't like the flavours

It's too expensive

The service is bad

☐ I don't like the ice cream

It's too far from my house

I don't know

Open-ended question

Why don't you eat ice cream at Fictionals Ice Cream Parlour?

I am lactose intolerant so I can't eat most ice creams, and it's really hard to find a store that offers good lactose-free ice cream. I've never heard of Fictionals but if I knew that they offered some, I would definitely try them out because I love ice cream!

Good questions...

Good Questions...

- Are clear and use simple language
- Are concise
- Are specific
- Are possible to answer
- Are relevant to the respondent
- Do not use negatives
- Avoid biased terms

Open questions

Please list up to three things you like about your job

1	•	-	•	•	•	•	•	•	•	•	 •	•	•	•	•	•	•	•	•	•		• •	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	 •		•	•
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List questions

What is your religi	on?
Please tick ✓	the appropriate box

Buddhist	None	
Christian	Other	
Hindu		
Jewish		
Muslim		
Sikh		

Category questions

How often do you visit the shopping centre?

Interviewer: listen to the respondent's answer and tick ✓ as appropriate

First visit
Once a week
Less than fortnightly to once a month
2 or more times a week
Less than once a week to fortnightly
Less often

Ranking questions

Please number each of the factors listed below in order of importance to you in choosing a new car. Number the most important 1, the next 2 and so on. If a factor has no importance at all, please leave blank.

Factor	Impo	rtand	ce
Carbon dioxide emissions	[]	
Boot size	[]	
Depreciation	[]	
Price	[]	

Rating questions

10 For the following statement please tick the box that matches your view most closely

Agree Tend to agree Tend to disagree Disagree

I feel employees
views have
influenced the
decisions taken
by management

	L

Quantity questions

What is your year of birth?

1	9	

(For example, for 1988 write:)

1	9	8	8

Pilot testing

- Test on a small number of individuals in the sample
- Ask for written feedback on the questions
- Revise the survey based on the written comments
- Exclude the pilot participants from the final sample for the study

Test the survey instrument before doing the actual study.

Suggestion: It's also a good idea to test out your sample design, data collection methods, data processing, and data analysis if possible.

Obtaining a high response rate in mail questionnaire

- Mail out original questionnaire with cover letter
- Follow it in two weeks with a second mailing of questionnaire to those who have not responded
- Follow again in two weeks with a postcard to nonrespondents reminding them to complete the questionnaire

Conducting an interview survey

- The interviewer should maintain a neutral stance during the interview
- Train the interviewers prior to the interview
- Take good notes of responses or use a tape recorder
- For telephone interviews, develop a telephone interview guide prior to the interview

SURVEY DATA ANALYSIS AND REPORTING

Socio-demographics of pop / sample / respondents analysis methods

- content analysis
- factor analysis
- latent class variable analysis quantitative analysis
- summary data
- basic statistical analysis
- econometric modeling

STEPS IN CONDUCTING SURVEY RESEARCH

- Decide if a survey is the best deign to use
- Identify the research questions or hypotheses
- Identify the population, the sampling frame and the sample
- Determine the survey design and data collection procedures
- Develop or locate an instrument
- Administer the instrument
- Analyse the data to address the research questions or hypotheses
- Write the report

CRITERIA FOR EVALUATING SURVEY RESEARCH

- Was the target population or sampling frame clearly specified?
- Was the sampling procedure specified?
- Was the sample clearly identified and the basis on which it was chosen specified?
- Did the type of survey match the questions or hypotheses advanced by the author?
- Was it clear whether a questionnaire or an interview survey comprised the form of data collection?
- Was information reported on reliability and validity of scores from past use of the questionnaire or interview?
- Did the author mention the dates on which the questionnaire or interview was administered?
- Were the administration procedures clearly identified?

Criteria for evaluating survey research

- If a questionnaire was used, were the procedures for obtaining responses identified?
- If an interview was used, were the field procedures for collecting this information specified?
- Did the data analysis match the research questions or hypothesis to be answered in the study?
- Did the researcher check on the reliability and validity of scores from the data collection in the study?
- Was the study written scientifically and ethically?

STRENGTH'S AND WEAKNESSES OF SURVEY RESEARCH

- ☐ Strengths
 - ■Useful in describing large populations
 - Make large samples possible
 - ■Surveys are flexible
 - ■Standardized questions
- □ Weaknesses
 - ■Round pegs in square holes
 - ■Seldom deal with context of social life
 - **□**Inflexible
 - Artificial
 - ■Weak on validity (but strong on reliability)

Surveys

- Many rules
- No such thing as perfect sample or survey or study so, sometimes better to plow ahead

Thank you

