

The eight steps of the research process

- 1: Formulating a research problem
- 2: Conceptualising a research design
- 3: Constructing an instrument for data collection
- 4: Selecting a sample
- 5: Writing a research proposal
- 6: Collecting data
- 7: Processing and displaying data
- 8: Writing a research report



When planning your research, don't forget:

- ✓ Methodologies differ due to underpinning philosophy
- ✓ The process is the same for quantitative and qualitative research
- Each approach uses different research methods for data collection, data processing, analysis and style of communicating the findings



Step 1: Formulating a research problem

This is the most important step, because the steps which follow are influenced by the research problem.

When formulating your problem think about:

- ✓ What do you want to find out about?
- ✓ Have you got sufficient funds to do the research?
- ✓ Have you got the time available to conduct the study?
- ✓ Have you got knowledge of relevant disciplines?
- ✓ Do you have sufficient knowledge of skills needed?



Step 2 : Conceptualising a research design

- ✓ What you find depends on how it was found
- ✓ Select an appropriate research design:
 - Quantitative
 - Qualitative
 - **Mixed methods**
- \checkmark The design has to be
 - Valid
 - Workable
 - Manageable
- \checkmark Be aware of its strengths and weaknesses





Step 3: Constructing an instrument for data collection

How

- Construct a research instrument or research tool to collect data (interview schedules, questionnaires, notes on observations, diaries, interview guides, etc.)
- ✓ Or use secondary data (information already collected for other purposes)
- ✓ Pre-test your research tool (pilot study)





Step 4: Selecting a sample

Ask yourself, who will take part in your research?

Select appropriate sample/participants to represent the study population

✓ Avoid bias

- Random / probability samples
- ✓ Non-random / non probability samples
- Be aware of strengths and weaknesses of different sampling methods





Step 5: Writing a research proposal

Write a detailed plan about your research. Make sure you include:

- What you are proposing to do
- *How* you plan to proceed
- *Why* you selected the proposed strategy





Step 6: Collecting data

Collect your data using one or more data collection method, such as:

- **Conducting interviews**
- Imailing out questionnaires
- □Conducting focus groups discussions
- Imaking an observation

Be aware of ethical issues!





Step 7: Processing and displaying your data

What did you find out?

- Keep in mind. How you analyse your data depends on the *type* of information you collected. This also impacts how you communicate the findings.
- ✓ Distinguish between
 - Descriptive
 - Quantitative (statistical procedures)
 - Qualitative (narrative, content analysis etc)
 - Attitudinal





Step 8: Writing a research report

Congratulations! Now that you have collected and analysed your data, it's time to write your report. In your report be sure to include:

- ✓ What you have done
- ✓ What conclusions you have drawn from the findings
- ✓ Different format for quantitative and qualitative research
- ✓ Structure using main themes of study

✓ Adhere to academic conventions



