Basics of writing a research proposal

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1. What is a research proposal?
2. Outline of research proposal
3. Writing a research proposal
4. Ethical considerations
5. Work plan
6. Budget
End of this session

Participants are able to:

1. state and define the concept of writing a research proposal
2. develop a research proposal
3. prepare appropriate work plan, ethical clearance and budget.
What is a research proposal?

The research proposal is a piece of document which states:

1. What the proposed research is about.
2. What it is trying to find out or achieve.
3. How you will go about doing that.
4. It is also an argument which needs to demonstrate rationality.
5. So argue to convince the audience of the merits of your proposal, don’t just describe.

6. It needs to be a ‘stand alone’ document – it will be read by people who have not discussed the work with the researchers.

7. Therefore, anticipate questions and answer them.
The audience will have 3 main questions when they read the proposal:

1. Is the research **worth doing**?
2. Is the research **design coherent**?
3. Can the researcher **carry out it**?
Proposal as a means of communication

The proposal is a communication to those who give approval and disburse budget. Therefore the proposal must be clear and comprehensive.
- Keep it terminology free
- Use few abbreviations and acronyms
- Don’t assume previous knowledge
- Avoid spelling errors
- Be concise and make your sentences understandable on first reading
Proposal as a Plan

- The proposal is a **plan of action**.
- An adequate proposal sets forth the plan in **step-by-step detail**.
- All empirical research consists of a careful, **systematic and planned** investigation of some restricted set of phenomena.
Proposal as a contract

- A completed proposal approved by a research or funding committee constitutes an agreement.
- Research design can not be changed when the approval is done.
- There are some constraints on the degree to which we can plan things.
Outline of the research proposal

Table of contents
Abstract/Summary
1. Introduction
   - Background to the research
   - Statement of value and rationale for the research study
   - Literature review
   - Conceptual framework
2. Research questions and research objectives

3. Research methods
   - Study type and data collection procedures
   - Sampling strategy and sample size
   - Plan for data collection
   - Plan for data analysis
   - Plan for dealing with threats to trustworthiness
   - Ethical considerations
4. Work plan or project management
   - Staffing and work plan, including timeline
   - Administration and monitoring
   - Plan for utilization and dissemination of results

5. Budget
   - Itemized budget
   - Budget justification
Annexes

Annex 1 References
Annex 2 List of abbreviations and acronyms
Annex 3 Interview guidelines, observation check-list, etc.
Writing a research proposal

In general we consider:

1. **Explain** the approach you have adopted.
2. **Make absolutely clear** that a particular design is appropriate to your purpose and research questions.
3. Describe what you will do from the start to the finish of your research. If there is a need for **flexibility**, state what and why.
3. **Build a framework.** Present a conceptual framework that helps to explain and clarify your proposed design.

4. **Articulate the parts.** Take special care at each step to write brief but explicit explanations of how the parts fit together—purpose with questions, framework with questions, questions with sampling and methods.

5. **Plan for trustworthiness.** Readers will invariably ask, “Why should I believe you?”
6. Are your **personal biases** a threat? If not, why not? If they are, how will you deal with them?

7. **Illustrate analyses.** Discuss your plans for analysis, giving practical examples where possible.

8. **Plan for records.** Explain how you will manage the data or a paper trail.

9. **Don’t anticipate findings.** Be careful about using language that appears to anticipate a finding.
Ethical considerations

People who are asked to participate in a study have a right to know:

- What it fully involves.
- What implications there are for them or others close to them.
- How it could effect them negatively or positively.
● Participants should be informed of the research purpose and of their role in terms of time and effort.

● Participants should be informed of procedures used to protect their anonymity.
- In experimental studies, participants should receive an explanation of all treatment procedures to be used (discomforts or risks involved).

- Procedures used to protect well-being should be fully explained.
- Participants should be told what benefits they will receive if they participate in the study.

- Participants should be fully instructed that they are free to withdraw their consent to participate in the study at any time without the need to justify the decision and without prejudice.

- Participants should be offered the opportunity to receive feedback about the results of the study.
Work plan

What is a work plan?
A work plan is a schedule, chart or graph that summarizes the different components of a research project.
What should be included in the work plan?

- The tasks to be implemented.
- The start and end date of each task.
- Research team, assistants, supporting staffs.
- Number of working days per person, etc.
The Gantt Chart

What is the Gantt Chart?

The Gantt Chart is a planning tool which shows graphically the order in which various tasks must be implemented (done) and the duration of each activity.
## Example of a Gantt Chart

<table>
<thead>
<tr>
<th>Tasks to be performed</th>
<th>Person assigned</th>
<th>June</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Finalized research proposal</td>
<td>Research team</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Train research assistants and pretest</td>
<td>Principal invest. and research team</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>instrument</td>
<td>Principal invest. and research team</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Data collection</td>
<td>Research team</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Prepare for data entry</td>
<td>Hire one statistician</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Data cleaning and preliminary analysis</td>
<td>Principal invest. and statistician</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Data analysis and report writing</td>
<td>Principal invest. and local authorities</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Finalize report</td>
<td>Research team</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Discuss recommendations/ plan of action</td>
<td>Research team/ MOH and local authorities</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Presentation and dissemination</td>
<td>Research team/ Policy maker MOH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>
Budget preparation should consider:

- Estimation of the time needed to complete project tasks in reality “Real World”.
- Include a 5% contingency.
- Provide not very detailed categories and amount “consider regulation”.
- A contribution from Gov. side or Depart. Try to arrange the contribution separately.
## Example of Budget for Safer Driving Promotion Program

<table>
<thead>
<tr>
<th>Budget items</th>
<th>Unit cost</th>
<th>Multiplying factors</th>
<th>Total cost (US$)</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Resource persons</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counselors</td>
<td>Daily wage (include per diem)</td>
<td>Number of staff–day x of working days</td>
<td>3000</td>
<td>Invited</td>
</tr>
<tr>
<td>Health professional</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traffic expert</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vehicle expert</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Policy maker</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Brochures</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leaflets</td>
<td>$ 1.00</td>
<td>1 x 500 pieces</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td>Posters</td>
<td>$ 3.00</td>
<td>3 x 500 post.</td>
<td>1,500</td>
<td></td>
</tr>
<tr>
<td>3. Visualization</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microphones</td>
<td>$ 10</td>
<td>10 x 3 Mic.</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Loud speakers</td>
<td>$ 100</td>
<td>100 x 2 loud speak.</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Display monitors</td>
<td>$ 200</td>
<td>200 x 2 Monitors</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>CD–Rom</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Vehicles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Car (rental include driver)</td>
<td>$ 120</td>
<td>120 x 30 days</td>
<td>360</td>
<td>Consider the local economy</td>
</tr>
<tr>
<td>Motorcycles</td>
<td>$ 12</td>
<td>12 x 2 x 30 days</td>
<td>720</td>
<td></td>
</tr>
<tr>
<td>5. Office supplies</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toner (laser toner)</td>
<td>$ 75</td>
<td>75 x 2 boxes</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>Pens</td>
<td>$ 0.30</td>
<td>0.30 x 500</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>Grand total</td>
<td></td>
<td></td>
<td>US$ 7,280</td>
<td></td>
</tr>
</tbody>
</table>
Thank you