Optimum Analysis

DRC DANISH REFUGEE COUNCIL

MEASURING THE ECONOMIC IMPACT OF MINE CLEARANCE

Training Module 5-1

Resource Efficiency

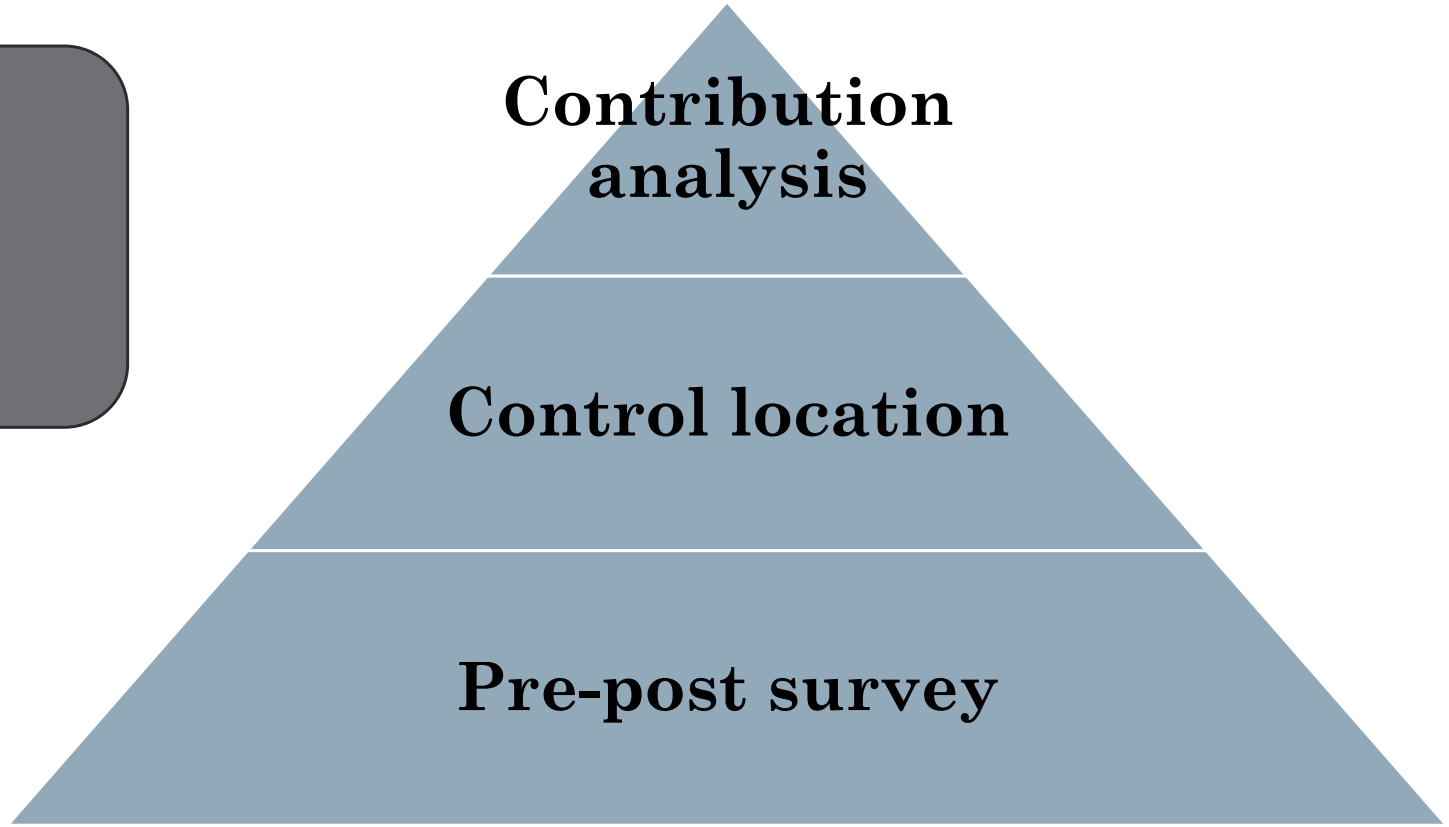
Funded by European Union Humanitarian Aid

Training Contents

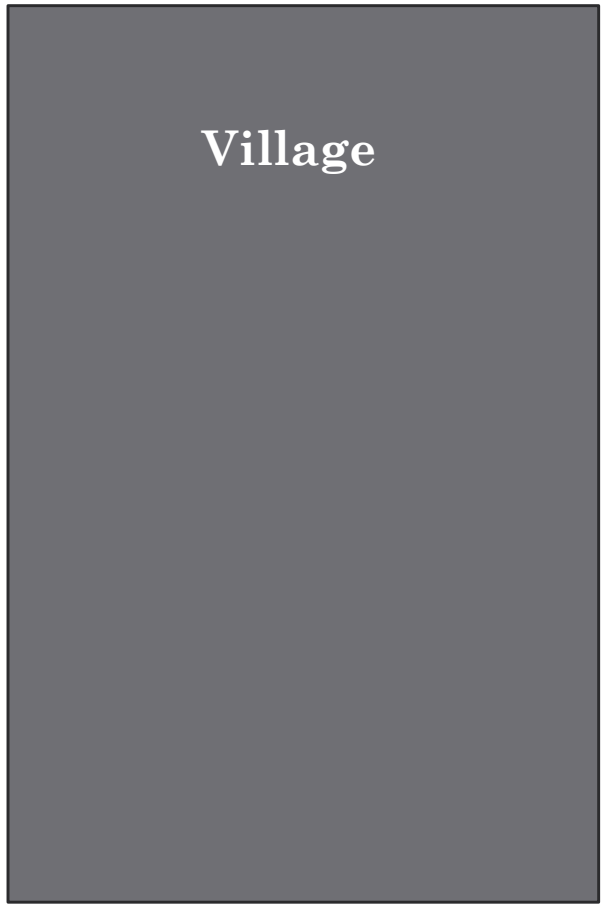
- Module 1: Introduction
- Module 2: Data Collection Methods
- Module 3: Selection of Communities
- Module 4: Baseline and Endline Assessments
- **Module 5-1 Resource Efficiency**
- **Module 5-2: Data Analysis**

Resource Efficiency

Community Suitability Survey



Resource Efficiency



Initial population: 10.000 farmer/herder households.

Sample size needed:

- Community suitability survey intervention: 555
- Community suitability survey control: 555
- Baseline intervention: 694
- Baseline control: 694
- Endline intervention: 555
- Endline control: 555

- Total surveys (incl community suitability survey): 3.608 surveys
- Total surveys (without community suitability survey): 2.498 surveys

Resource Efficiency

The population of farmer/herder households living a maximum 1KM from the cleared area: 150 farmer/herder households

Sample size needed:

- Community suitability survey intervention: 150
- Community suitability survey control: 150
- Baseline intervention: 135
- Baseline control: 135
- Endline intervention: 135
- Endline control: 135

- Total surveys (incl. community suitability survey): 840 surveys
- Total surveys (without community suitability survey): 540 surveys

Optimum Analysis

DANISH REFUGEE COUNCIL

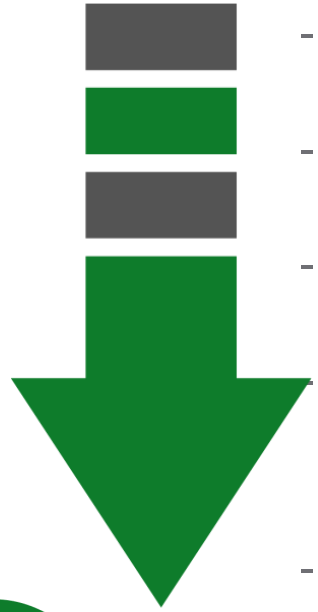
MEASURING THE ECONOMIC IMPACT OF MINE CLEARANCE

Training Module 5-2

Data Analysis

Funded by European Union Humanitarian Aid

Training Contents



- Module 1: Introduction (Training Day 1)
- Module 2: Data Collection Methods (Training Day 1)
- Module 3: Selection of Communities (Training Day 1)
- Module 4: Baseline and Endline Assessments (Training Day 1 & Training Day 2)
- Module 5 Resource Efficiency (Training Day 2)
- **Module 6: Data Analysis (Training Day 2)**

A Truth and A Lie

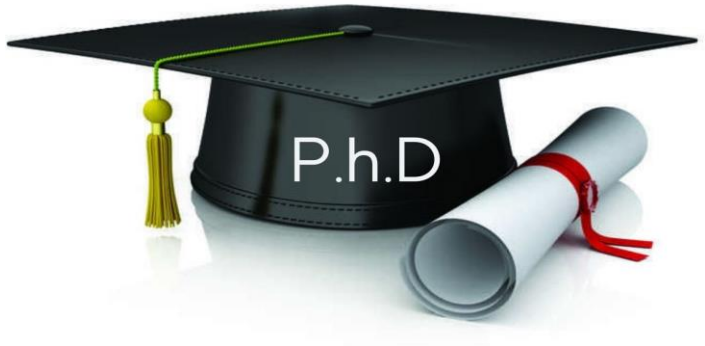
Note down one statement about something true about yourself and another one about something false. Both statements must be work-related.

In turns, **read out the two statements**.

The rest of the group must guess which statement is **true** and which **false**.

A Truth and A Lie

1. I have a PhD in sociology, with a dissertation focused on gender inequality in the division of unpaid labor



2. I used to be a kickboxer and have participated in several kickboxing competitions

Analysis of Quantitative Baseline/Endline Data

Quality Control

1. **Length of interviews**
2. **Numeric values and open answers**

d7_hhmembers	How many members does your household consist of? This number should include yourself.
d8_hhmale	How many household members are male?
d9_hhfemale	How many household members are female?
d10_hhyoung	How many household members are under 17 years of age?
d11_hhadult	How many household members are between 18 to 65 years of age?
d12_hhsenior	How many household members are over 65 years of age?
d13_employed	How many household members are currently employed?
d14_unemployed	How many household members are currently unemployed but actively looking for employment?

Quality Control

- Data collection ends 15:00
- Quality control 15:30-16:30
- Discussion enumerators
- Notes from enumerator feedback
- Data cleaning

Data Analysis

- Familiarize Yourself with the Dataset
- Check for Data Integrity (incl. inflation)
- Prioritize Core Variables
- Analyze Changes Over Time
- Compare Groups

Data Analysis

- Use Graphs and Charts
- Highlight Key Findings
- Contextualize Your Findings
- Consider External Factors
- Simplify Your Message

Measuring Change

You will receive a **dataset** with **10 observations** in total.

You will be divided into groups of 4 to 6 people. Take a look at the data and think of the best way to present this data using only five sentences (one paragraph).

In the dataset, the first sheet is data from the baseline and endline conducted in the intervention community, while the second sheet is data from the baseline and endline in the control community.

Qualitative Data Analysis

Quality control!!!!

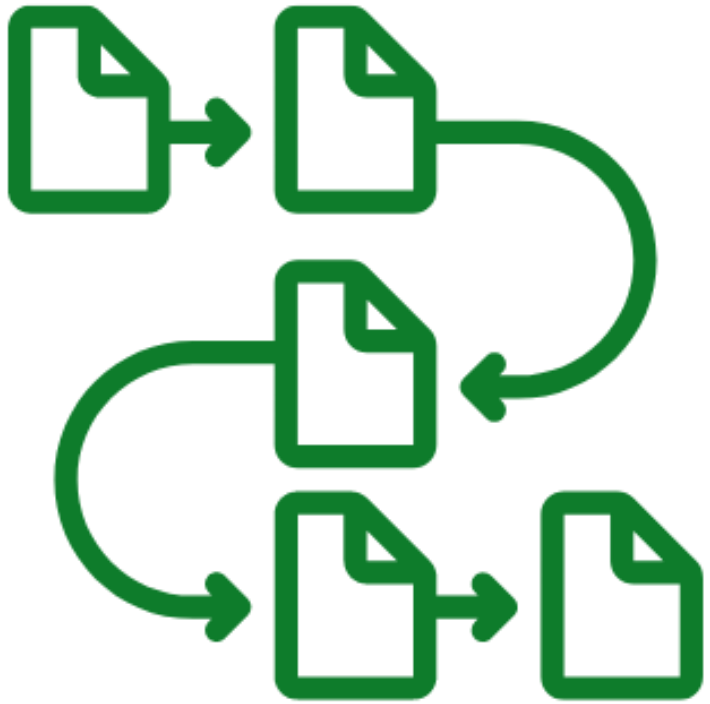
Qualitative Data Analysis

Raise your hand if you are used to doing qualitative data analysis following the steps below

Qualitative Data Analysis

Step 1: Initial Read-Through

Purpose: Familiarize yourself with the data.
Action: Read through the transcripts or notes from interviews, focus groups, or open-ended survey responses to get an overall sense of the content.
Goal: Identify recurring themes, significant statements, or surprising findings.

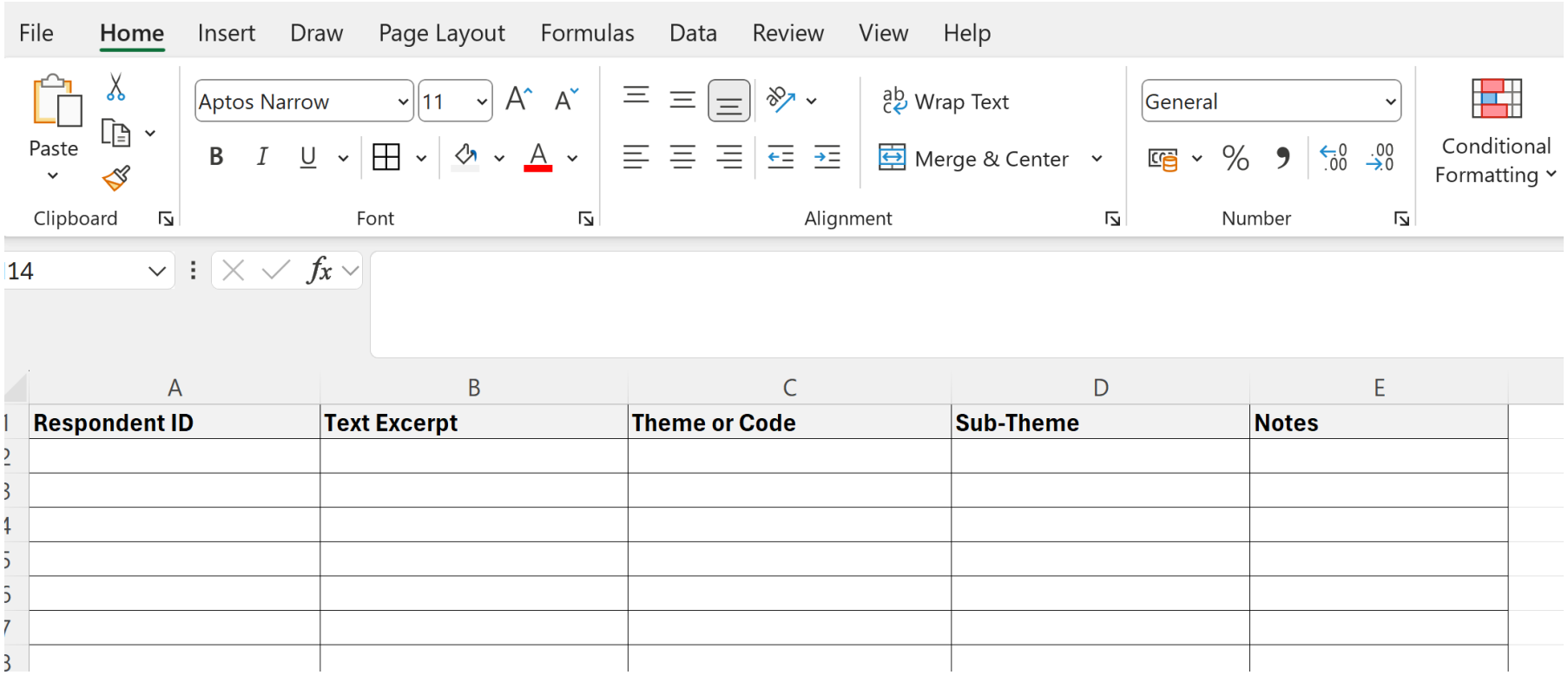


Qualitative Data Analysis

Step 2: Organize the Data

Purpose: Prepare the data for analysis.
Action: Set up an Excel spreadsheet with columns for Respondent ID, Text Excerpt, Theme or Code, and any other relevant details. As you go through the data again, select key excerpts (quotes, responses) that are relevant to your research questions or objectives.
Goal: Ensure all data is well-organized, labeled, and ready for systematic analysis.

Qualitative Data Analysis



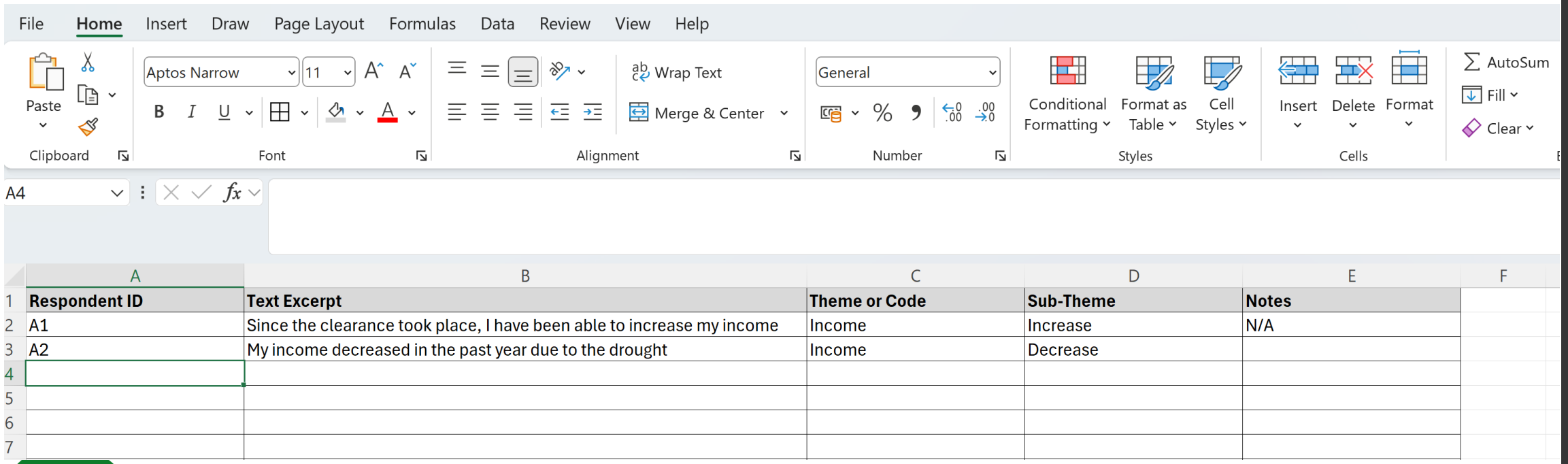
Respondent ID	Text Excerpt	Theme or Code	Sub-Theme	Notes

Qualitative Data Analysis

Step 3: Coding the Data

Purpose: Categorize the data.
Action: Assign a simple, consistent label (code or theme) to each excerpt that summarizes its content.
Goal: Begin organizing the data into meaningful categories that relate to the research objectives.

Qualitative Data Analysis



	A	B	C	D	E	F
1	**Respondent ID**	**Text Excerpt**	**Theme or Code**	**Sub-Theme**	**Notes**	
2	A1	Since the clearance took place, I have been able to increase my income	Income	Increase	N/A	
3	A2	My income decreased in the past year due to the drought	Income	Decrease		
4						
5						
6						
7						

Qualitative Data Analysis

Purpose: Synthesize the data into broader categories.
Action: Review the codes you've assigned in Step 3 and look for patterns or commonalities among them. Group similar codes together to form broader themes. For each theme, write a brief summary that captures its essence. Include key excerpts or quotes that exemplify the theme. Consider how these themes relate to your research questions or objectives.
Goal: Develop a clear and concise summary of the main themes that have emerged from your data. This summary will serve as the foundation for your analysis.

Qualitative Data Analysis

Purpose: Interpret the themes in the context of your research.
Action: Analyse the data based on your research questions.
Goal: Develop a comprehensive understanding of your data, providing insights that contribute to the overall research objectives. The analysis should offer a detailed explanation of what the data means in the context of your study.

Any Questions?