**Field research 1, Questionnaire: Inhabitant dwelling capacity evaluation on Mount Elgon**

**Questionnaire proposal**

February 2017

Client: Mount Elgon Trust of Kenya

Partner Applicant: Stichting Elimu Mount Elgon.

Location: Chepchoina, at the slopes of Mount Elgon in Western Kenya

Catchment area approximately 5 km around the projects.

Researcher: Ir.-arch. [...] PhD Candidate

The department of Architecture, Chair of Methods & Analysis

Faculty of Architecture and the Built Environment, Delft University of Technology

**RESEARCH INFORMATION**

**Central Research Question:**

Which capacities determine the self-reliance of inhabitants towards their built environment and how can PDIs improve and sustain inhabitant’s self-reliance towards their built environment?

**Objective:** Assess and evaluate existing capacities of the community

**Aim:** Before we can start offering training programs to the inhabitants we need to better understand the differences in current (habitat housing project) and past (local independent communities) housing practices. Evaluating how introduced building techniques and materials influence the self-reliance of the inhabitants towards their built environment. As a result we can learn from past housing development practices and restrategise the future development approach (training inhabitants).

**QUESTIONNAIRE GUIDE**

**INTRODUCTION:**

This research is being conducted to get to know the views of inhabitants living in the Mount Elgon area, about their habitation.

I am conducting this research as a part of international research on rural inhabitants housing in developing countries. M. [...] PhD researcher at the Delft University of Technology in The Netherlands is leading this research. The questions I would like to ask you relate to your capacities concerning your house. The results of this questionnaire will be used to understand inhabitant involvement and capacities by comparing multiple families within three different communities. In order to confirm authenticity of this questionnaire I will make an **audio recording**, all outcomes (both written and audio) will be anonymised. At the end of the questionnaire I would like to ask you to **sign this document & the consent agreement**. Do you have any questions before we begin?

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**THE QUESTIONS**

**General information:**

1. Regular or Single parent home
2. Ages of parent(s)
3. Occupation of parent(s)
4. Do you have an income?
5. How much is your shared income?
6. Is this stable, or does fluctuates seasonal or occasional?
7. If there are fluctuations how often and how much difference do they make?
8. Amount of children
9. Ages of the children
10. Occupation of children (please specify: education or work)
11. Do you own a mean of transport (bicycle, motorbike, donkeys)
12. Do you have a shamba?
13. Do you own this land?
14. Does it generate income?

**Questions about current house:**

1. Do you own the house you live in?

If yes:

1. how is it financed /organized?

If no:

1. how is it financed /organized?
2. Does your house consists of one building or more?
3. What is/are the sizes of buildings? (meters)
4. Which functions (kitchen, washing, etc.) are inside?
5. Which functions (kitchen, washing, etc.) lie outside?
6. Is the house large enough for the whole family?

If yes:

1. can you explain why?

If no:

1. can you explain why not?
2. Do you own the plot?
3. What type of house do you live in? (mainly: mud, brick, concrete, wood, steel sheet, etc.)

In case the family has iron sheets:

1. Does the iron sheet make a lot of noise when it rains?
2. Does the iron sheet radiate heat when the sun is shining?
3. How much did the iron sheet roof cost?
4. How much did the whole house cost?
5. Are there cheaper alternatives?

If yes:

1. Which are they?
2. Would they radiate heat when the sun is shining?
3. Do they increase noise when its raining?
4. Why did you chose the iron sheets?
5. What materials did you use to build the house? (please list material of: foundations, walls, roof)
6. Are those materials locally available (walking distance)?

If yes:

* 1. Did you have to pay for the materials or are there other ways of collecting/ acquire these materials

If not:

* 1. Did you bring materials yourself or did you hire somebody to do that for you?

If both:

* 1. Please answer a+b

1. Are those materials local natural resources (e.g. mud or straw)or manufactured (e.g. cement, iron sheet)?
2. Are those materials expensive or cheap?
3. Did you build your house yourself?

If yes:

* 1. Which of the members of your family assisted in this process and
     1. In which parts did they assist? (specify per member)
     2. Were these small or substantial (specify per member)
  2. Were the community members able to help you with it? (did they have the necessary skills?)
  3. Did the community members help you with it?
     1. In which parts did they assist? (specify per member)
     2. Were these small or substantial (specify per member)
  4. Did they do it for free or were they compensated?

If yes:

* + 1. In what form (did you help them in return, did you provide the with meals, did you pay them?)

If no:

* 1. Did you hire labour?
  2. Were they hired for all or some of the works?
  3. Did you hire labour because you didn’t know how to build yourself?
  4. Would you have built the house yourself if you would have known how to built the house?

1. Did you help any other community member with building their house?

If yes:

* 1. Did you mainly helped the people that helped you?

1. Are you satisfied with the house?

If yes:

* 1. What do you like about the house?
     1. Why do you like it?

If no:

* 1. What don’t you like about the house?
     1. Why don’t you like it?
     2. What could you change to make it more likeable?

1. Does your house need a lot of repairing?
2. How frequently do you need to repair the house?
   1. Which component(s) need a lot of repair?
   2. What type of things/components of the house do you repair yourself?
   3. What type of things/components of the house can’t you repair yourself?
3. Do you know how to repair your house? (walls, floor, roof)

If yes:

* 1. Do you repair your house yourself?
  2. Could you still afford the repairs if you would lose your income?

If not:

* 1. Do you need to hire somebody to do it for you?
  2. Can you afford that?
  3. Do you do that [hire somebody to repair your house]?
  4. Could you afford it if you would lose your income?

1. Would you have preferred to build your house differently?
2. Why didn’t you build this house?

If the answer insufficient fund (or similar)

1. Due to the materials you preferred?
2. Due to the building methods you used?
3. Did you have sufficient knowledge to build this house?
4. Would you consider materials/methods that are cheaper, but have same characteristics as your preferred materials and methods?
5. Would you be interested to learn how to build with the materials/methods yourself?

If yes:

1. Why?

**Questions about the desired house:**

1. What type of house would you like to live in? (specify; foundation/floors/walls/roof: mud, brick, concrete, wood, steel sheet, etc.)
   1. Why; explain your arguments
2. Would you prefer to own or to rent the house?
3. Would this house consist of one or more buildings?

If yes:

* 1. Why?

If no:

* 1. Why?

1. What would be the size of that house? (if you answered 40. yes, please specify sizes of all buildings)
2. Would you like to have any functions inside the house?

If yes:

* 1. Please specify which functions (e.g. kitchen, washing, etc.) and why

1. Would you like to have any functions outside the house?

If yes:

* 1. Please specify which functions (e.g. kitchen, washing, etc.) and why

1. Would you to own a plot or rent a plot?

If yes:

* 1. Why?

1. What materials would you like to build the house from? (please list material of: foundations, walls, roof)

In case the family chose iron sheets:

1. Does the iron sheet make a lot of noise when it rains?
2. Does the iron sheet radiate heat when the sun is shining?
3. How much does the iron sheet roof cost?
4. How much would the whole house cost?
5. Are there cheaper alternatives (e.g. thatch, roofing tiles, etc)?

If yes:

1. Which are they?
2. Would they radiate heat when the sun is shining?
3. Do they increase noise when its raining?
4. Why would you chose the iron sheets?
5. Are those materials locally available (walking distance)?

If yes:

* 1. Would you have to pay for the materials or are there other ways of collecting/ acquire these materials

If not:

* 1. Would you bring materials yourself or would you hire somebody to do that for you?

If both:

* 1. Please answer a+b

1. Are those materials expensive or cheap?
2. Would you be able to finance this type of house?

If yes:

* 1. From your savings?
  2. By taking a lone?

1. Could you build such a house?

If yes:

* 1. Why didn’t you build it?(money/skill/knowledge/time/other - please specify)

If no:

* 1. Why can’t you build such a house? (money/skill/knowledge/time/other- please specify)

1. Would you want to build this house yourself?

If yes:

* 1. Could the community members help you with it? (would they have the necessary skills)
  2. Would the community members help you with it?
  3. Would they do it for free or would they be compensated?

If yes: -

If no:

* + 1. In what form (would you help them in return, would you provide the with meals) would you pay them?

If no:

* 1. Would you need to hire for one or some of the jobs?
  2. Would you need to help them as much they helped you?

1. Would you help other community member with building their house?
2. Would this house need a lot of repairing?

If yes:

* 1. Why?
  2. Do you know how to improve the situation?

If no:

* 1. What do you need to know to improve?
  2. Is this important for wanting the new house?

1. How frequently would you need to repair the house?
2. Would you consider materials/methods that are cheaper, but have same characteristics (durability) as your preferred materials and methods have?
3. Would you want to know how to build/maintain the house yourself?

If yes:

* 1. Would you repair your house yourself?
  2. Could you afford the repairs if you would lose your income?

If not:

* 1. Would you need to hire somebody to do it for you?
  2. Could you afford that?
  3. Could you afford it if you would lose your income?

1. Would you want to learn how to build/repair your desired house?

If yes:

* 1. Would you be willing to help construct/repair a house for one of the community members in order to learn?
  2. Would you be willing to help construct/repair a public building (school/hospital/etc.) in order to learn?

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**Questionnaire Consent Form**

Research investigator: [...]

We don’t anticipate that there are any risks associated with your participation, but you have the right to stop the questionnaire or withdraw from the research at any time.

Thank you for agreeing to be questionnaireed as part of the above research project. Ethical procedures for academic research undertaken from Dutch institutions require that the questionnaireed explicitly agree to being questionnaireed and how the information contained in their questionnaire will be used. This consent form is necessary for us to ensure that you understand the purpose of your involvement and that you agree to the conditions of your participation. Please therefore read the information below and then sign this form to certify that you approve the following:

* the questionnaire will be recorded and a transcript will be produced
* you will be sent the transcript and given the opportunity to correct any factual errors
* the transcript of the questionnaire will be analysed by ([...]) as research investigator
* access to the questionnaire transcript will be limited to ([...]) and academic colleagues and researchers with whom he might collaborate as part of the research process
* any summary questionnaire content, or direct quotations from the questionnaire, that are made available through academic publication or other academic outlets will be anonymized so that you cannot be identified, and care will be taken to ensure that other information in the questionnaire that could identify yourself is not revealed
* the actual recording will be kept for valorisation purpose only
* any variation of the conditions above will only occur with your further explicit approval

Agreeing to this form I confirm that;

1. I am voluntarily taking part in this project. I understand that I don’t have to take part, and I can stop the questionnaire at any time;
2. The transcribed questionnaire or extracts from it may be used as described above;
3. I have read the Information sheet;
4. I don’t expect to receive any benefit or payment for my participation;
5. I can request a copy of the transcript of my questionnaire and may make edits I feel necessary to ensure the effectiveness of any agreement made about confidentiality;
6. I have been able to ask any questions I might have, and I understand that I am free to contact the researcher with any questions I may have in the future.

If you have any further questions or concerns about this study, please contact:

Name of researcher: [...]

E-mail: [...]