# Fostering Red Cross youth innovation

A Human Centred Design curriculum with an emphasis on problem framing

Master thesis Strategic Product Design Koen Merkx







Appendix

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Fostering Red Cross youth innovation

Koen Merkx Graduation report Strategic Product Design March 2022

A Human Centred Design curriculum with an emphasis on problem framing

# **APPENDIX 1: Questionnaire 1**

### Questions:

1. What is the main reason(s) for you to participate in Limitless? Please tick all boxes that apply.

2. To which category / categories belongs the problem(s) you want to solve? Please tick all boxes that apply.

3. How many webinars did you watch before submitting your application? Please select one answer.

4. If you attended the webinars; What do you remember most? If you didn't attend the webinars; Why not?

5. Did the webinars from the Inspire phase influence the problem and idea that you submitted? Please select one answers

6. How confident do you feel that you can make your idea a reality?

7. Do you think that the Limitless Innovation Academy is going to help you create a better solution to your problem?

8. What do you hope to gain from the Limitless Innovation Academy? Please tick all boxes that apply.

9. What are the barriers to implementing your idea into your community? Please tick all boxes that apply.

10. How much time a week do you have to develop your idea and attend the workshops/ lectures? Please select one answer.

11. When your idea becomes reality, what is the change you hope to see in your community?

12. What is the level of experience you have with these innovation- / design tools? Please tick one box per row.

13. Which factors do you think are most important to develop a good solution to your problem? Please tick all boxes that apply.

14. Which factors do you think are the least important to develop a good solution to your problem? Please tick all boxes that apply.

15. What statement about 'innovation' do you agree with the most? Innovation is... Please tick all boxes that apply.

16. Which digital tools are you familiar with? Please tick all boxes that apply.

Demographic questions:

In which country are you based?

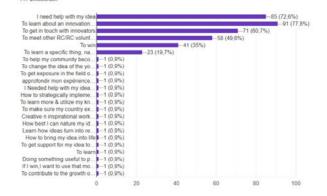
Which of the following most accurately describe(s) you? Please select all boxes that apply.

What is the highest educational level you have attained? Please select one answer. What is your age?

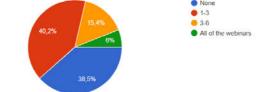
Do you consider yourself to have any of the following? Please check all boxes that apply. Which technologies do you have access to? Please tick all boxes that apply.

If you are interested in being interviewed in more detail about your experience with the Limitless Innovation Academy, please share your name and e-mail address below.

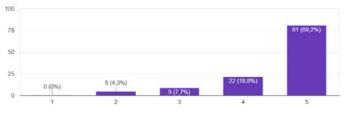
What is the main reason(s) for you to participate in Limitless? Please tick all
 boxes that apply.
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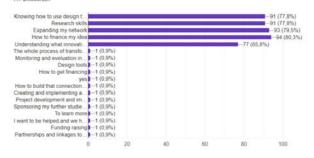








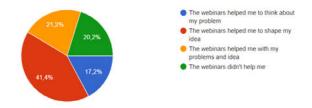
8. What do you hope to gain from the Limitless Innovation Academy? Please tick all 
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 boxes that apply.



tick all boxes that apply.  1172 artrearden  Food security  Food s	2. To which category / cate	gories belong	s the problem	(s) you want to	solve? Pleas	e 🛛 Kopiëre
Food security         -27 (23,1%)           Gender         -29 (24,8%)           Sanitation         -26 (22,%)           Health         -26 (22,%)           Climate change impacts         -26 (22,%)           Climate change impacts         -26 (22,%)           Livelinoods         2 (1,7%)           Technology         - (1,0%)           Ochikamage         - (1,0%)           Chimate signals         - (0,0%)           Ochikamage         - (1,0%)           Worman's rights         - (1,0%)           Columbust         - (1,0%)           Biodod         - (1,0%)           Intervention with vort hes.         - (1,0%)           Society         - (1,0%)           Biodod         - (1,0%)           Lile of the sate (1,0%)         Lile of the sate (1,0%)           Lile of the sate (1,0%)         Lile of the sate (1,0%)	tick all boxes that apply.					
Gender         -26 (24,8%)           Water         -8 (6,8%)           Healthy         -67 (57,3%)           Climate change impacts         -25 (21,4%)           Safety         -34 (20,1%)           Education         -25 (21,4%)           Biocutation         -26 (22,2%)           Biocutation         -26 (22,2%)           Biocutation         -25 (21,4%)           Chind MarrageA         -10,9%           Chind MarrageA         -10,9%           Chind MarrageA         -10,9%           Colind MarrageA         -10,9%           Montal Health communicat.         -10,9%           Mental Health and migraf.         -10,9%           Community SurvietinceA         -10,9%           Community SurvietinceA         -10,9%           Biocob - 10,9%	117 antwoorden					
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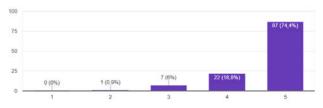
5. Did the webinars from the Inspire phase influence the problem and idea that you L Kopières submitted? Please select one answer.

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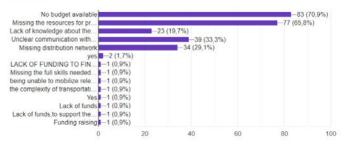
7. Do you think that the Limitless Innovation Academy is going to help you create a better solution to your problem?





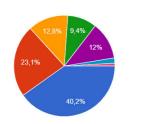
9. What are the barriers to implementing your idea into your community? Please Lick all boxes that apply.

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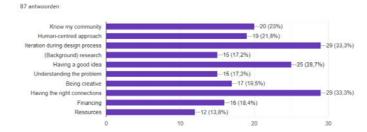
10. How much time a week do you have to develop your idea and attend the workshops/lectures? Please select one answer.

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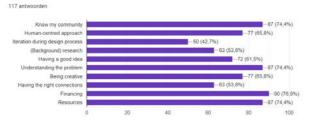




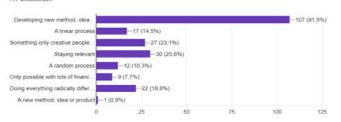
14. Which factors do you think are the least important to develop a good solution U Kopièren to your problem? Please tick all boxes that apply.



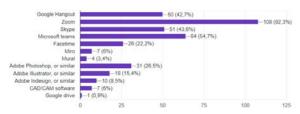
13. Which factors do you think are most important to develop a good solution to your problem? Please tick all boxes that apply.



## What statement about 'innovation' do you agree with the most? Innovation is... Please tick all boxes that apply. 117 antwoorden



16. Which digital tools are you familiar with? Please tick all boxes that apply.



# **APPENDIX 2: Questionnaire 2**

Questions:

1. Which workshops have you attended? Please tick all boxes that apply 2. If you attended the workshops; What has helped you the most? If you didn't attend the workshops; Why not? 3. Did the workshops influence your understanding of the problem? 4. Who is the problem owner? 5. Did the workshops influence your ideas about solving the problem? 6. How many ideas are you (planning) to test? 7. Where in the innovation process are you? 8. How confident do you feel that you can make your idea a reality? 9. How did you apply what you learned so far? Please tick all boxes that apply 10. What are the barriers to implementing your idea into your community? Please tick all boxes that apply. 11. What would you like to learn more about? 12. What statement about 'innovation' do you agree with the most? Innovation is... Please tick all boxes that apply. 13. Which factors do you think are most important to develop a good solution to your problem? Please tick all boxes that apply. 14. Which factors do you think are the least important to develop a good solution to your problem? Please tick all boxes that apply. 15. Do you think that the Limitless Innovation Academy helped you create a better solution to your problem? 16. What would have helped you in this phase of Limitless? Please tick all boxes that apply. 17. Do you have any other feedback?

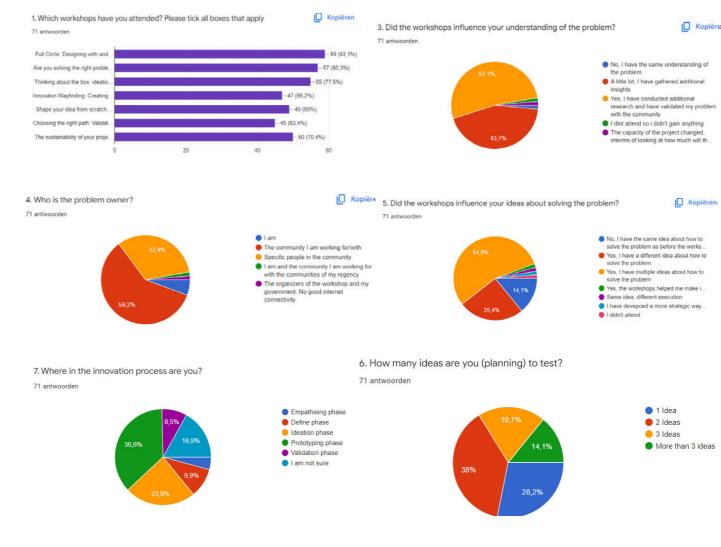
Demographic questions:

In which country are you based?

Which of the following most accurately describe(s) you? Please select all boxes that apply.

What is the highest educational level you have attained? Please select one answer. What is your age?

Do you consider yourself to have any of the following? Please check all boxes that apply. If you are interested in being interviewed in more detail about your experience with the Limitless Innovation Academy, please share your name and e-mail address below.



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8. How confident do you feel that you can make your idea a reality?

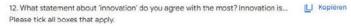
9. How did you apply what you learned so far? Please tick all boxes that apply Kopie 71 antwoorder

I reframed my problem	F					-44 (62%
I did additional (literature) rese						-42 (59,2%)
I had interview(s)	r			-28 (39	4%)	
I made prototype(s)			-14 (19,7%)			
I hosted a focus group(s)				21 (29,6%)		
I developed a financial plan	ļ			-23 (32,4%)		
I made new connections			and the state of t		-34 (47,9%)	
I tested my idea(s)				-24 (33,8%)		
I live in the slums I have seen	-1 (1,4%)					
I did nothing	-1 (1,4%)					
We organize ourselves in a diff	-1 (1,4%)					
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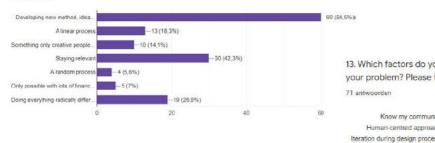
11. What would you like to learn more about?

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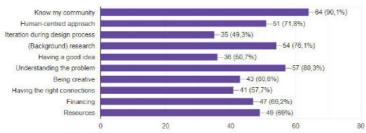




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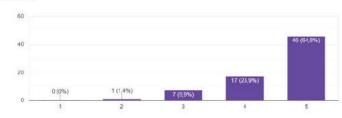


13. Which factors do you think are most important to develop a good solution to your problem? Please tick all boxes that apply.

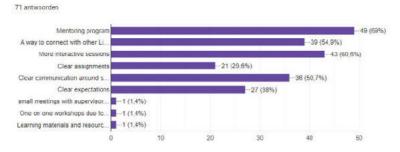


15. Do you think that the Limitless Innovation Academy helped you create a better U Kopiëren solution to your problem?





16. What would have helped you in this phase of Limitless? Please tick all boxes Limit that apply.



# **APPENDIX 3: Questionnaire 3 - validation**

Questions:

How far along are you with your Limitless project?

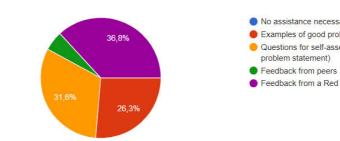
Formulating your dream questions: How relevant do you think formulating your dream is for your project? Was the overall goal of this page clear? How clear are the steps for you? Do you think the order of the questions helped you to formulate your dream? Did you formulate a dream using the worksheet? What did you find the most difficult writing down your dream?



What is preventing you from making your dream a reality? - Questions

Was the overall goal of this page clear? Is the link between the dream and the problem clear? What kind of assistance, if any, would you have liked?

What kind of assistance, if any, would you have liked? 19 antwoorden



Was the overall goal of this page clear? 19 antwoorden



Is the link between the dream and the problem clear? 19 antwoorden

84.2%



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No assistance necessary

Examples of good problem statements

Questions for self-assesment (for the

Feedback from a Red Cross coach

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The section where for should be answered is not quite clear to me.

### Problem Tree - Questions

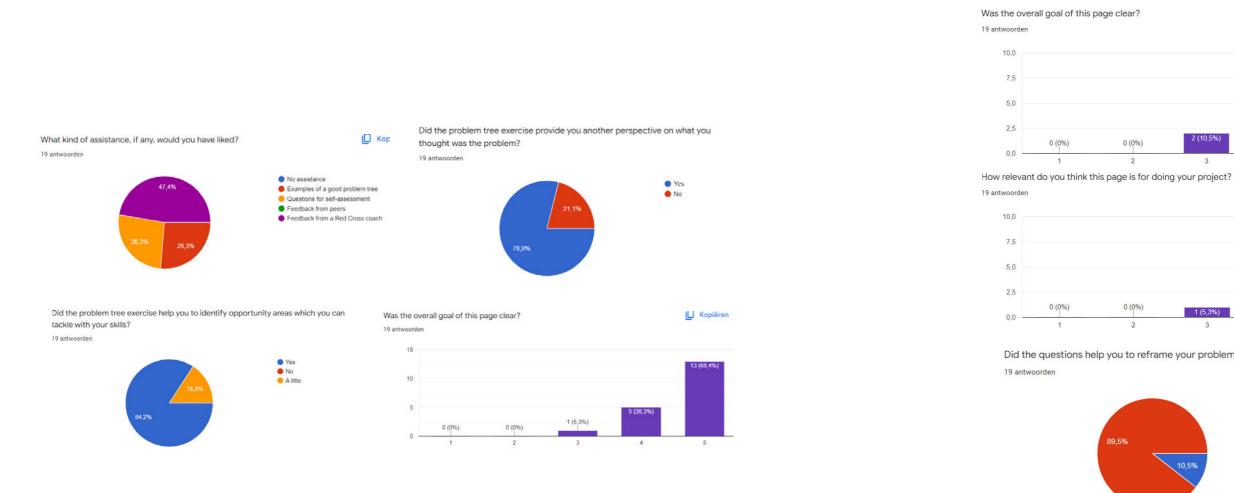
How relevant do you think formulating your dream is for your project?

Was the overall goal of this page clear?

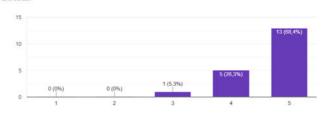
Did the problem tree exercise help you to identify opportunity areas which you can tackle with your skills? Did the problem tree exercise provide you another perspective on what you thought was the problem? What kind of assistance, if any, would you have liked?

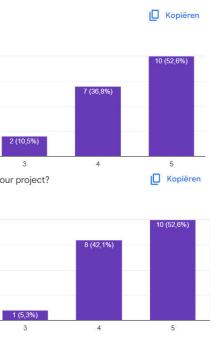
### Reframing your problem statement

How relevant do you think formulating your dream is for your project? Was the overall goal of this page clear? Did the questions help you to reframe your problem statement?



How relevant do you think creating a problem tree is for your project? L Kopieren 19 antwoorder





Did the questions help you to reframe your problem statement?



0 (0%)

0 (0%)

2

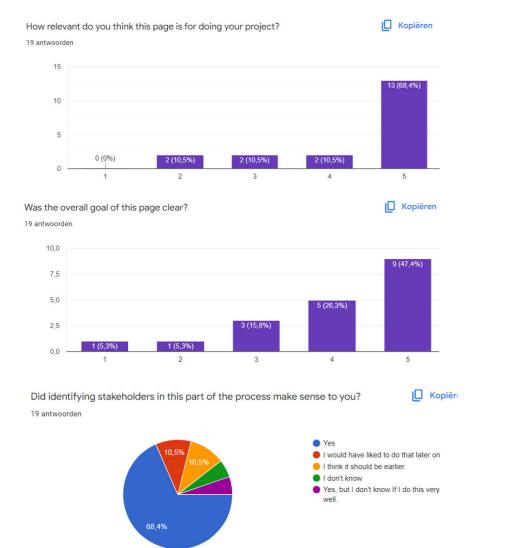
They were confusing Yes they were helpfull I did not use them

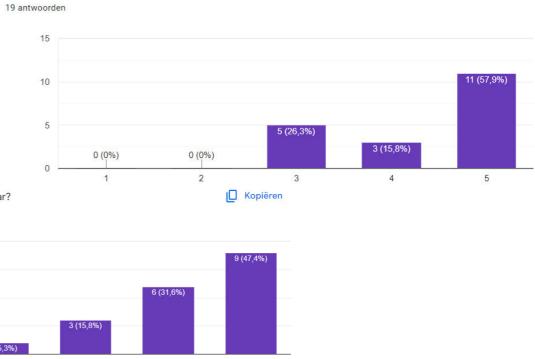
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### Identifying stakeholders - Questions

How relevant do you think formulating your dream is for your project? Was the overall goal of this page clear? Did identifying stakeholders in this part of the process make sense to you? Reframing your problem statement 2 - Questions

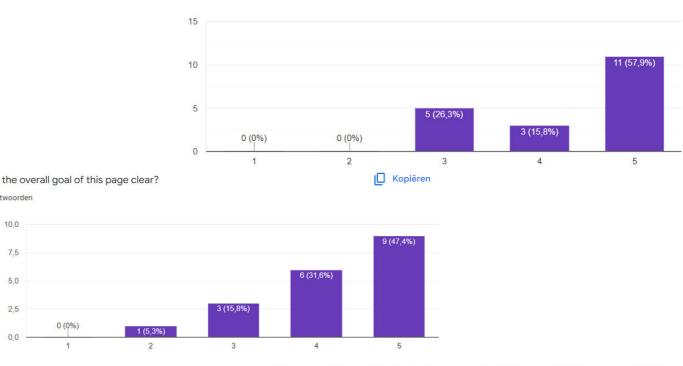
How relevant do you think formulating your dream is for your project? Was the overall goal of this page clear? Did your problem statement change, compared to the first time you wrote it down? How did you experience this reframing exercise?





#### Was the overall goal of this page clear?

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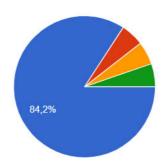


How relevant do you think this page is for doing your project?

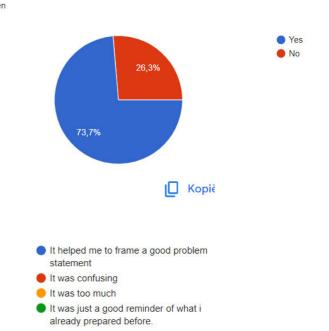
down? 19 antwoorden

### How did you experience this reframing exercise?

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Did your problem statement change, compared to the first time you wrote it



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# APPENDIX 4: Benefits and challenges from remote working in developing countries

This list of benefits and challenges from remote working in developing countries provides valuable information for the development of a concept aimed at educating a target group which lives for a large part in developing countries. Not all the listed benefits and challenges are directly relevant for this research.

### **General benefits:**

'The use of online resources thrived significantly among other resources at this time as many lecturers and students were able to search for information and materials through online blogs, papers, websites, and other related resources.'

'Another benefit of the transition to online teaching is the opportunity for live cloud recordings of teachings, meetings, lectures and other interactions.'

### Personal growth and development benefit

'Increase in the use of available resources. Moodle and other platforms that were under-utilised before COVID-19 became intensely utilised and widely- used during this period. It is of significance that online facilities, which were already in place in the university but were in minimal use prior to COVID-19 by both lecturers and students, proved to be extremely useful tools during the transition.'

'Exposure to several sessions of training organised by the university's Software Department for lecturers on various forms of digital learning and education; and also, the sharing of materials and videos for the benefit of lecturers by colleagues and university administration.'

'Upgrading of new technologies for the university: purchase of many facilities and licenses, especially addons, to support the university's Moodle (online learning platform) and Zoom video conferencing.'

### Pedagogical benefits/changes

'Students and staff were able to explore different learning options using technology and other online tools for instruction and learning.'

'Lecturers and the university administration explored the opportunity for the development of blended learning.'

'The opportunity of working remotely, which allows both staff and students to continue engagement outside the confines of a traditional university classroom.'

### Besides the benefits, the challenges are formulated:

Lack of resources - Poor national infrastructure - Course delivery problems - Problems facing students Cybersecurity problems

#### Lack of resources

'Digital inequalities among students and staff were suddenly laid bare, as there is no internet accessibility in many of the villages in the hinterland areas where some students and staff are domiciled.'

'Unavailability of computers, laptops and/or tablet facilities for students to use in connecting to the online mode. Some other lecturers were affected by these inadequacies too.'

'Lack of adequate prior training on the requirements of online teaching for both students and lecturers. Many lecturers and students grappled with how to function effectively using the new technologies.

'Lack of practical training for the students: The inability to make use of lab or fieldwork because of social distancing for courses that required the use of lab, fieldwork or practical exercises'

### Poor national infrastructure

'Slower internet speed at home due to sudden and unprecedented internet traffic, and the lack of preparedness of internet providers for the sudden enormous demands on their services.'

'Inconsistent power supply: Unlike the developed countries, Guyana is yet to guarantee a stable power supply as there are occasions of power-cuts during the delivery of lectures, affecting both students and lecturers.'

### **Course delivery problems**

'Reduced student-teacher engagement: As noted in some of my class experiences while teaching, many students no longer engage in class discussion as they do in the traditional face-to-face class and there is often little or no feedback when questions are asked. As a result, some online classes become long and sometimes stressful. It is the students who do the learning (Lavy & Naama- Ghanayim, 2020; Orkibi & Tuaf, 2017) and if they resist or minimise their investment, attention or effort on their participation, they will only accomplish little in their learning.'

'Slow and extended work: Students are unable to submit assignments when due, lecturers are unable to keep up with their schedules because of either power-cuts or internet problems.'

'Compromise with deadlines: On many occasions where students and staff were unable to use technological tools to get work done in a timely manner, they were compromising with deadlines and even with the standard expected of their delivery because of other constraining factors they are confronted with.'

'Limited opportunity for monitoring assessments, which has restricted many lecturers/tutors to the use of multiple-choice questions (MCQ)'

'Malpractices: With the online method of testing and the realities of many students' inability to utilise video services during some live class exercises and tests because of the limitation of the technological devices, students could receive assistance and help that the instructor may not be privy to.'

### **Problems facing students**

'Students' inflexibility: Many students who were accustomed to the traditional face-to-face method of teaching found the online method burdensome, with some becoming rude and impolite to lecturers because of the stress experienced as a result of adjusting to online education.'

# **APPENDIX 5: Iterations prototype**

'Domestic affairs: The online delivery mode forced many students to be working at home where they are under enormous distractions and other domestic issues (Sutton, 2020); and as such, most students found it challenging to maintain focus during online teaching.'

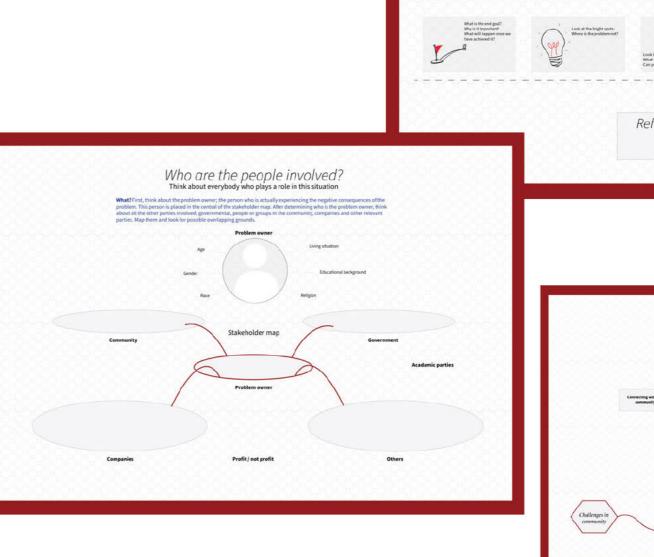
'Mental health challenges: Fear and anxiety surfaced among some students as a result of the sudden change. Due to some students' inability to cope with the combination of their academic rigours and domestic challenges, depression, mental issues, and suicidal thoughts were some of the conversations that were encountered during this period.'

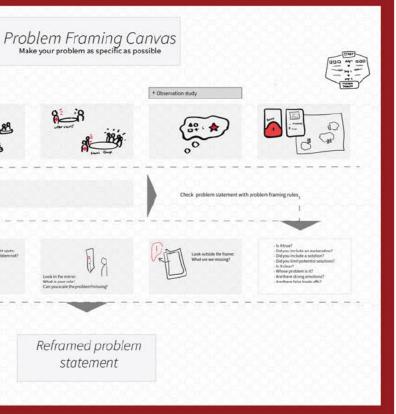
### Cybersecurity problem

Cybersecurity threats: With computers and other portable technological devices being entrenched in our daily educational and teaching lives driven by the migration of traditional learning to online mode, there abounds various kinds of breaches, exposure to viruses, hacking potentials, and other cybersecurity threats (Nam, 2019).

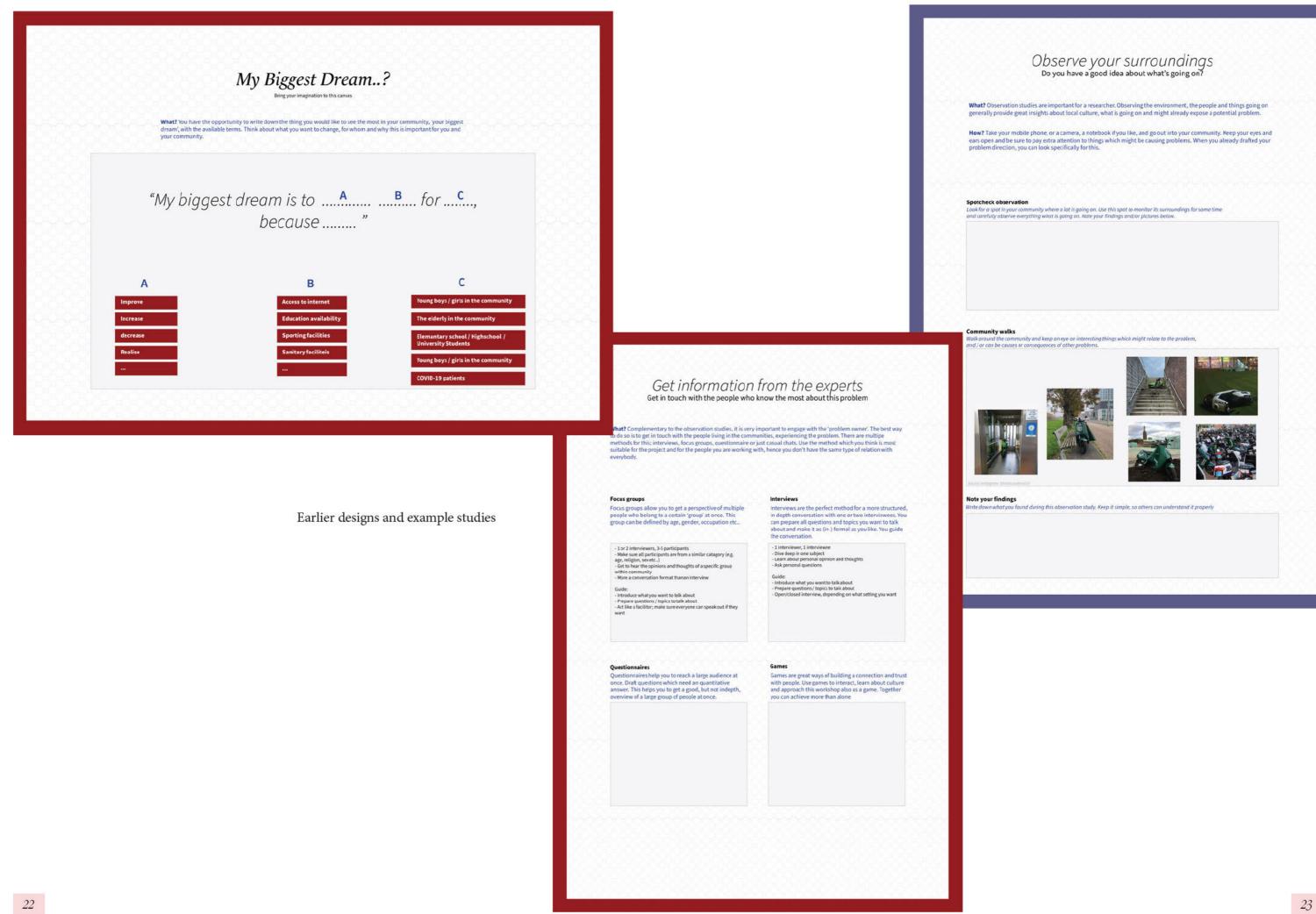
An overview of prototype iterations is presented.

34





"The key lies	rkshop in your hands' pest dream		
Observation studies	Stakeholder mapping	Obstacle identification	
Problem s	tatement		
		$\sim$	
			efined problem





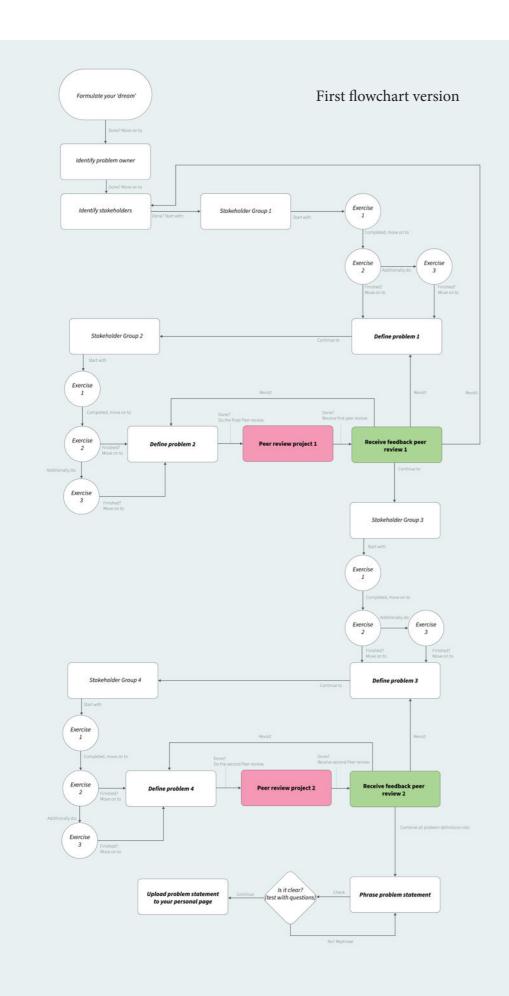
	Define the obstacles What are the bumps on the road?
possible obstacles which can be fac-	do direct peer to peer learning. Create cards and ask each other questions about the ed during solving a poblem. Think about initial ideas to overcome these obstacles sallerging to overcome. See far whon of the stakeholders these obstacles might have
Online version: Greate as online dec problem statement, others can look challenges and think about how to o	ix of ands which can be supplemented any time, by everyone (by upleading your at your statement which loaking at optacle cashs, and see if they canidently the overcome those.
Pick an obstacle card     Kondomly pick a cord and see how	2 Who and what does this effect for your problem statement? Renderity joid a cert and see how it effects your problem statement?
it effects your problem and solution.	workparty pick a care and set now it events your problem and southern.
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3 Initial ideas to overcome this obst	tacle

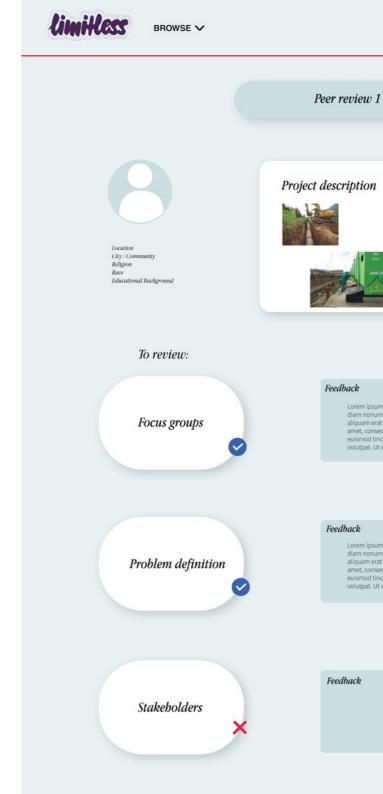






Prototype for obstacle cards. Eventually not included in the final prototype, but still a fun activity to further explore.



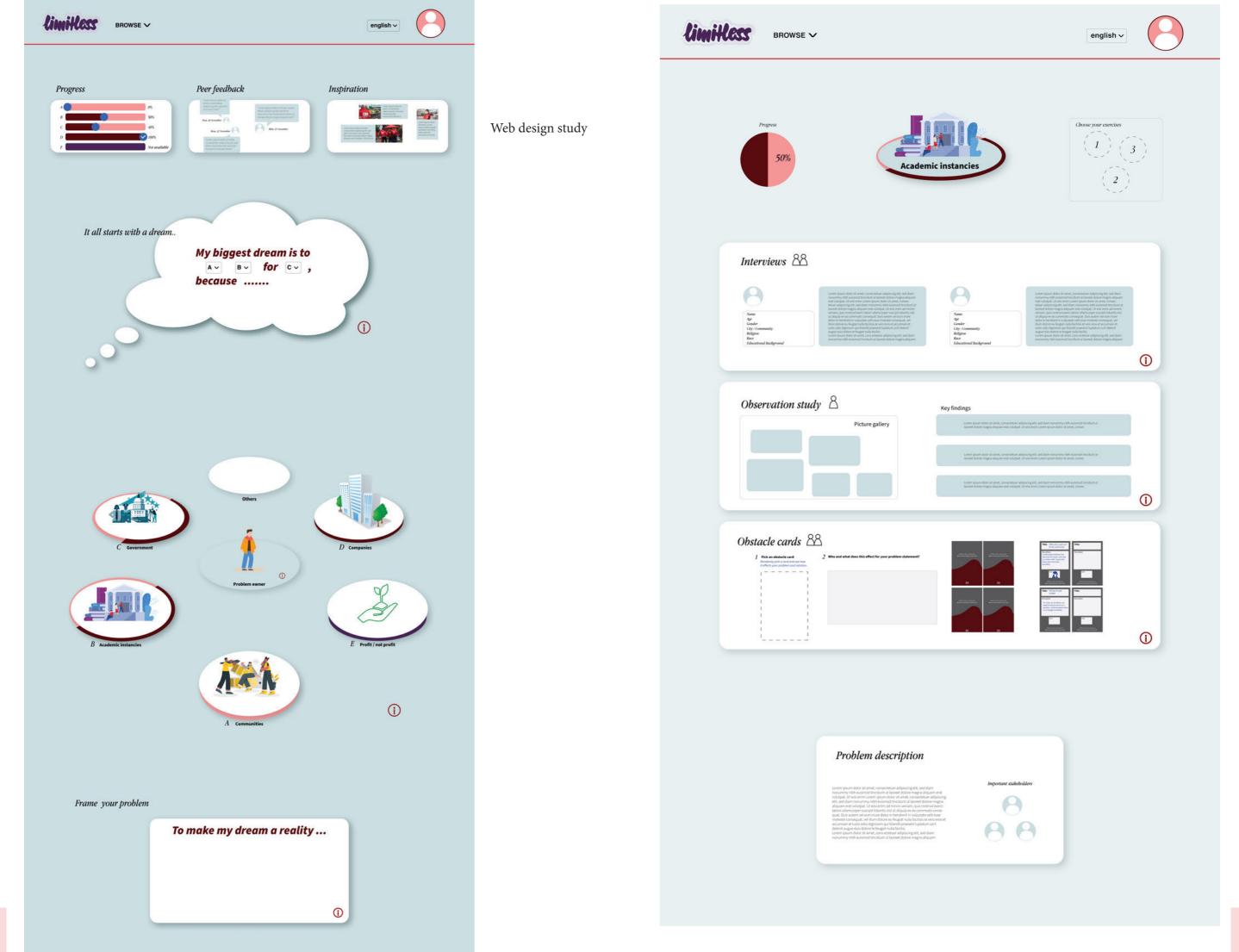




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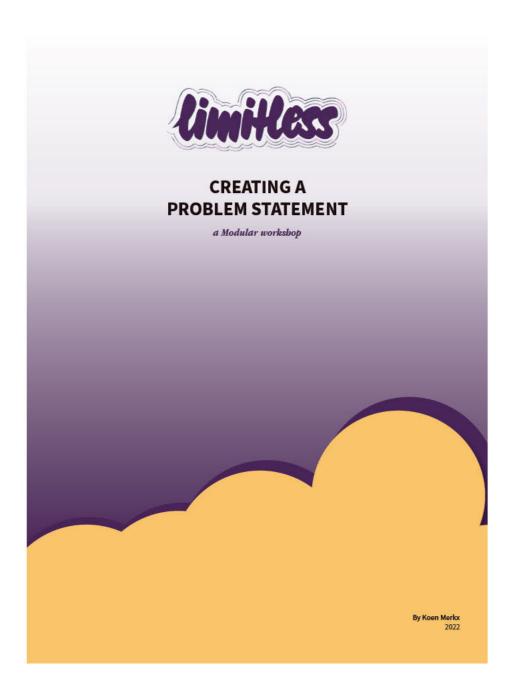
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## **APPENDIX 6A: Validation prototype**

This is the document which was sent to the youth volunteers for validation





## Introduction

This workshop supports you in finding a relevant problem which you, together with the respective community, can solve. Please approach this workshop as an exercise for yourself to become more familiar with creating a well defined problem statement. **Keep in mind:** What you write down in this form does not have to be related to your Limitless project!

Multiple exercises will help you to gradually build to an outcome of a problem statement which is clear and realisable. The first part (this document) consists of 6 pages with small exercises which gradually help you to build a good problem statement. It is recommended to work chronologically through the pages, but you can always switch between pages and go back.



These six pages, respectively: formulating your dream, from dream to problem, problem tree, problem framing, stakeholder identification and reframing your problem statement, are going to help you to gather a good understanding of the problem in a community and the people involved.

Please fill out this PDF, by clicking on the blank spaces adding your answer. After filling out the pages, please save the document and send it back to me: **kmerkx@redcross.nl** 

At the end of the document you can find an example version, for inspiration and guidance.



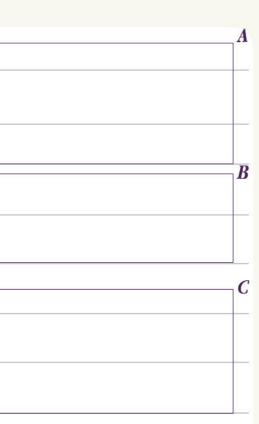


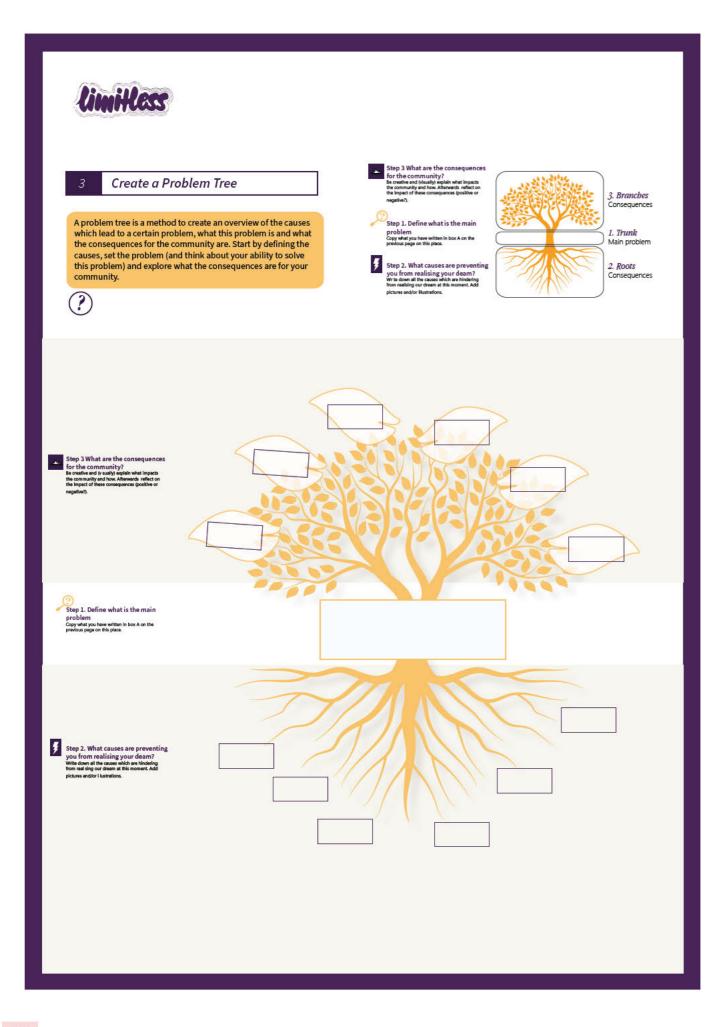
limilless ?	When you formulate your dream it is important to try to let go of all the obstacles you face in your daily life. In this exercise you have no limits! Try to think about what you want the most.
1 Formulate your dream	
This is were it all starts!	
Step 1. Who do you want to help? Explain who you want to help with your dream. Yourself? People in your community? Children? Try to be specific.	Step 3. Visualise your dream Look for a picture on the internet (or draw it yourself!) which describes/illustrates/inspires your dream and past it in these squares.
(jj)	
Step 2. What do you want to change? Explain what it is you would like to see changing for the people you want to help. Try to explain it in detail.	Step 4. What does this mean? Explain how these pictures describe/illustrate/ inspire your dreams.
Step 5. Formulate your dream! Now try to formulate your dream in a compact sentence. (for example: 'I want to provide access to a bicycle for all hildren in my school, so they can cycle to school instead of walking long distances'.)	

lin	nitless	
2	From dream to problem	
	preventing you from main reality?	king your
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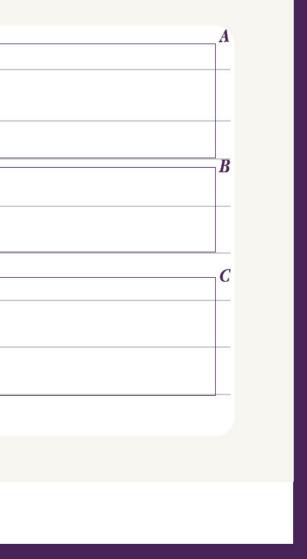


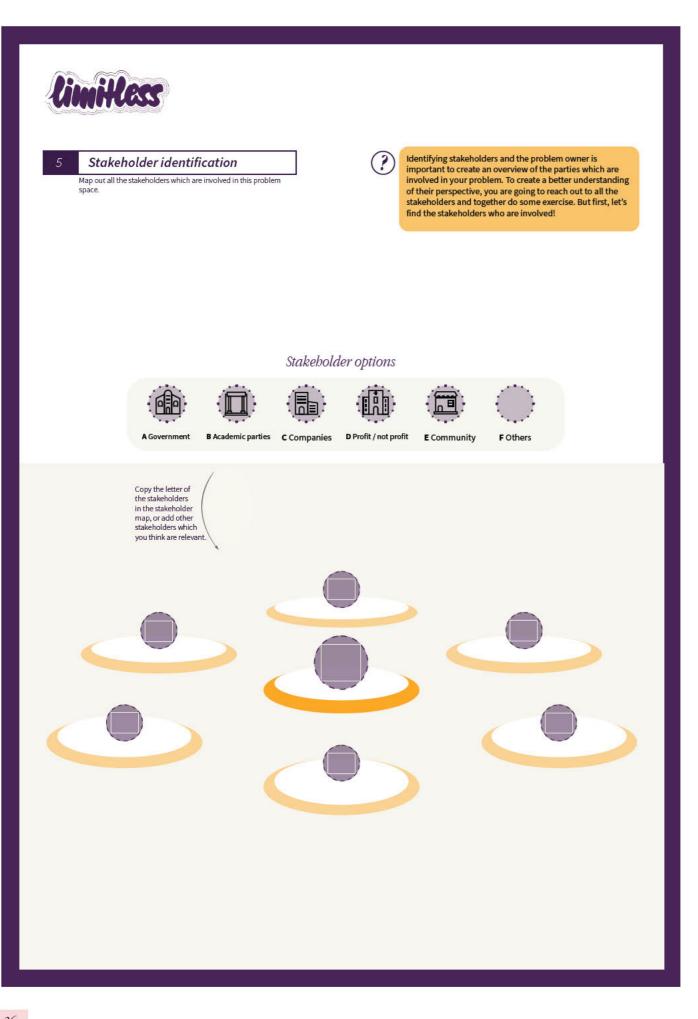
Now you formulated your dream, try to find out what is stopping you from realising this dream and formulate this into a problem statement.





limitless ? You want to have a clear objective for your innovation journey. That is why you should start with a well defined problem statement. In order to do so, you are going to reframe your initial problem statment (page 2). Use the reframing questions to critically review your problem statement and write down the Problem statement 4 Start with formulating your problem statement by filling out the blanks. reframed version here. Reframing questions Is it true? Did you include an explanation? Did you include a solution? Did you limit potential solutions? Is it clear? Whose problem is it? Are there strong emotions? Are there false trade-offs? 0 A I want to solve ... B for ... C because...

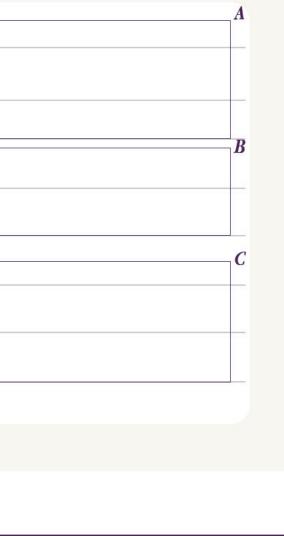




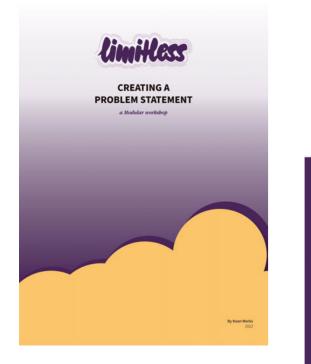
6 Ref	rame Problem state		
	Dia Did you l Are	Reframing questions Is it true? include an explanation? dyou include a solution? imit potential solutions? Is it clear? Whose problem is it? e there strong emotions? re there false trade-offs?	\$
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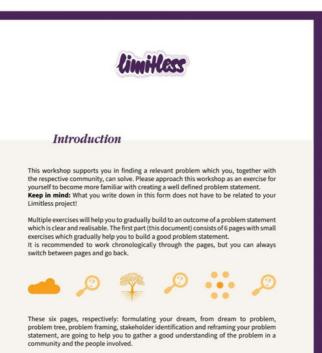
After mapping your stakeholders it is important to take a second look at your problem statement. How do all these stakeholder influence your problem statement? Can it be more clear or made more specific? Copy your last version (page 4) and see how it can be improved!



## APPENDIX 6B: Validation example



This visualises how one of the youth volunteers sent back the form.



Please fill out this PDF, by clicking on the blank spaces adding your answer. After filling out the pages, please save the document and send it back to me: **kmerkx@redcross.nl** 

At the end of the document you can find an example version, for inspiration and guidance.

limitless	?
1 Formulate your dream This is were it all starts!	
<b>Step 1. Who do you want to help?</b> Explain who you want to help with your dream. Yourself? People in your community? Children? Try to be specific.	
We wish to help each and every individual in our community (throughout the Philippines) who is suffering from Epilepsy and Seizures.	
Step 2. What do you want to change? Explain what it is you would like to see changing for the people you want to help. Try to explain it in detail. We wish for them to have their voices heard and treated like any other normal human being.	
Step 5. Formulate your dream! Now try to formulate your dream in a compact sentence. (for example: 'I want to provide access to a bicycle for all hildren in my school, so they can cycle to school instead of walking long distances'.)	
We aim on ending the discrimination those suffering from epilepsy and se family members.	n and eizure

When you formulate your dream it is important to try to let go of all the obstacles you face in your daily life. In this exercise you have no limits! Try to think about what you want the most.

#### Step 3. Visualise your dream

Look for a picture on the internet (or draw it yourself!) which describes/illustrates/inspires your dream and past it in these squares.

We can visualise our dream of ending the stigma about epilepsy coming to action with knowledge and awareness is spread across the community and epileptic individuals are treated indifferently.

Step 4. What does this mean? Explain how these pictures describe/illustrate/ inspire your dreams.

This means that our project is gaining success as people are now well aware of what epilepsy is and there are no more superstitions about epilepsy or suffering individuals.

nd stigmatisation of ires, as well as their

From dream to problem preventing you from ma pality?	what is stopping you from realising thi	s dream
		A
I want to solve		
	We want to end the discrimination faced by epileptic individuals on a daily basis due to unawareness and lack of knowledge.	
-		D
for	for epilepsy is a neurological disorder that can occur to anyone at any age and at any time;	B
		C
because	People with epilepsy are discriminated against and treated differently which affects them and their families mental and social wellbeing.	
	montal and coolar wonborng.	

limitless
3 Create a Problem Tree A problem tree is a method to create an overview of the causes which lead to a certain problem, what this problem is and what the consequences for the community are. Start by defining the causes, set the problem (and think about your ability to solve this problem) and explore what the consequences are for your community.
Step 3 What are the consequences for the community. The community and how. Advanuards, reflect on magnitude.
Step 1. Define what is the main problem Copy what you have written in box A on the previous page on this place.
Sep 2. What causes are preventing.         With own aft be cause which are holders of the moment. Add point ratio mom

Step 3 What are the consequences for the community? Be creative and (visually) explain what impacts the community and how. Alterwards, reflect on the impact of these consequences (positive or negative?).

Step 1. Define what is the main problem Copy what you have written in box A on the previous page on this place.

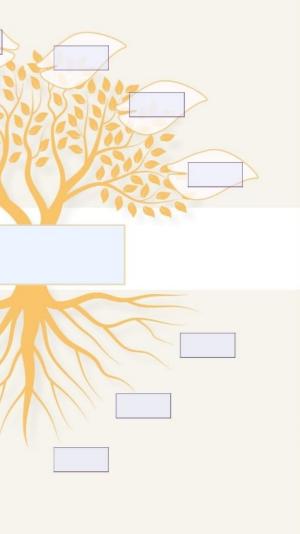
Step 2. What causes are preventing you from realising your deam? Write down all the causes which are hindering from realising our dream at this moment. Add pictures and/or illustrations.

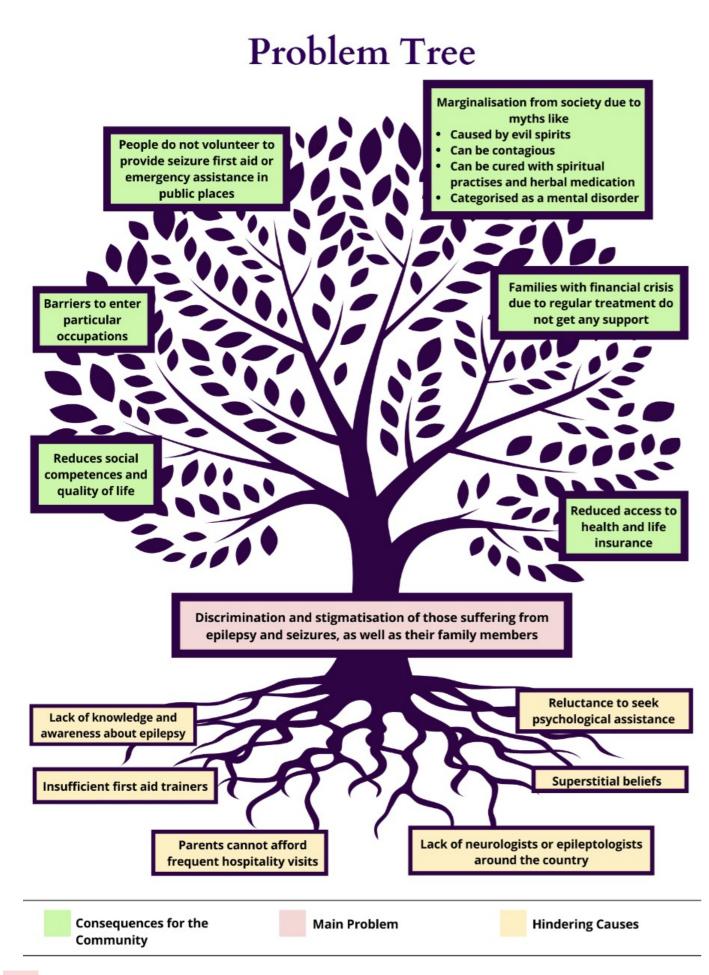


3. Branches Consequences

1. Trunk Main problem

2. Roots Consequences





	blem statement hormulating your problem statement by	y filling out the
	Did you inclu Did you Did you limit p W Are ther	eframing questions Is it true? de an explanation? include a solution? optential solutions? Is it clear? /hose problem is it? e strong emotions? ere false trade-offs?
- 0	I want to solve	
		the discrimination Epilepsy.
	for	Supporting our war epilepsy and for the
	because	Currently people which is affecting health upto the e hesitate to share concerned autho

1	2	2
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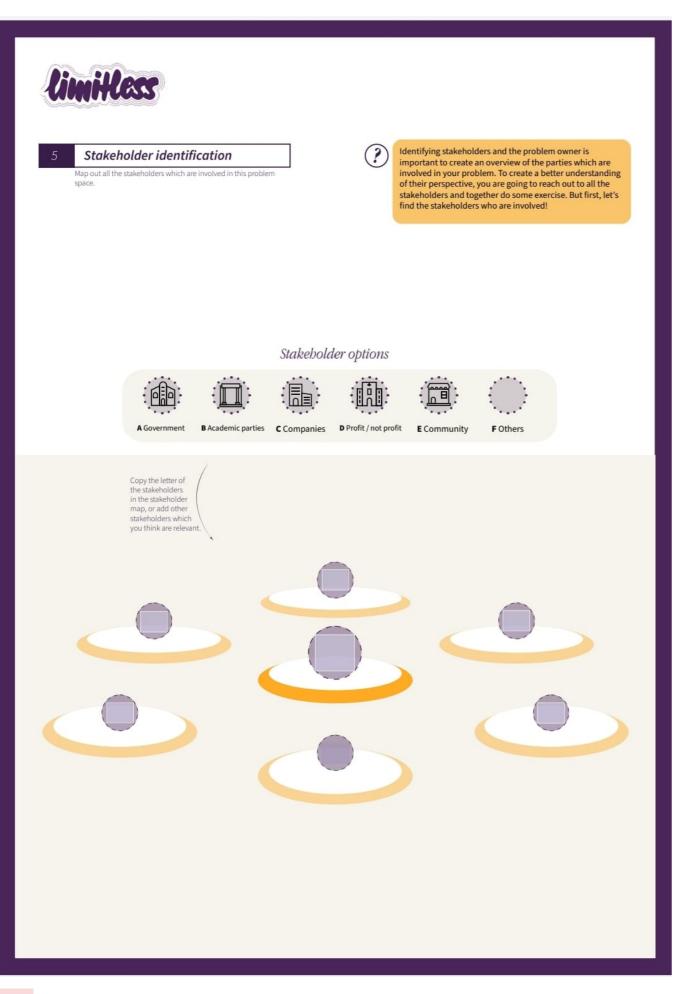
You want to have a clear objective for your innovation journey. That is why you should start with a well defined problem statement. In order to do so, you are going to reframe your initial problem statment (page 2). Use the reframing questions to critically review your problem statement and write down the reframed version here.

on against individuals suffering from

B

varriors / heroes who fight their voices to be heard.

ble are treating them differently ing their and their families mental e extent that some individuals even are about their condition with the horities (school, clgs, etc.)







F. Associations Community







H. Individuals and families suffering with epilepsy



· Providing medical personal for dissemination Partnership and providing information about patients with epilepsy to the LGU to prepare the survey.



- School and colleges
- Psychological assistance for staff and student
- Special survey by guidance office of institute to recognise staff and student with epilepsy
- Availability of medical personal inside the institution campus

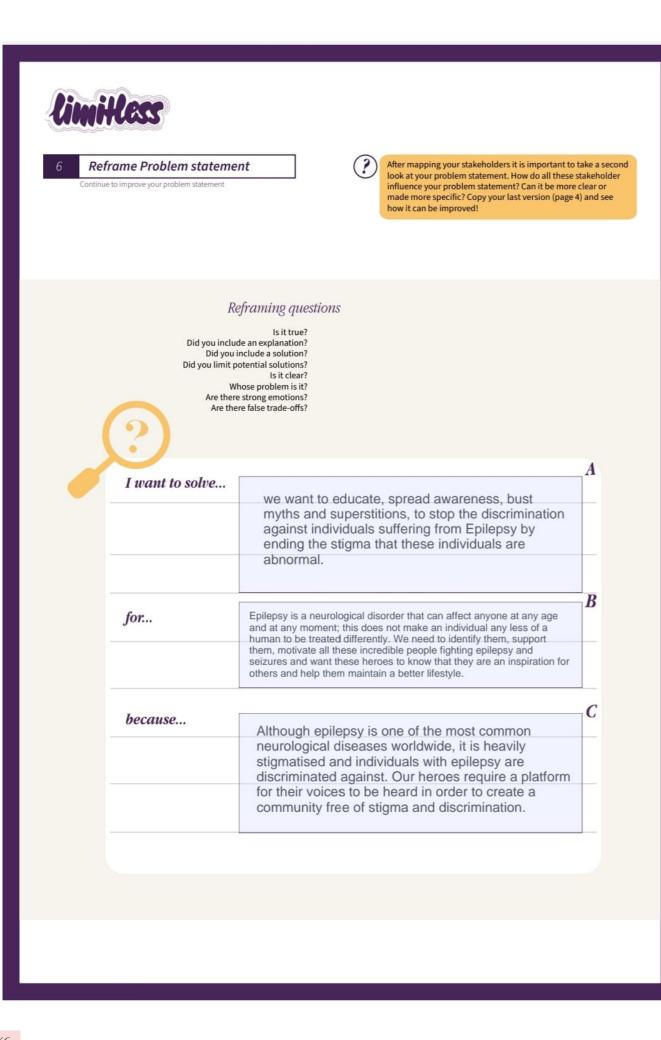


- · As the ambassadors by being active voices for these individuals and family members.
- By being support to those who are finding it hard to handle.

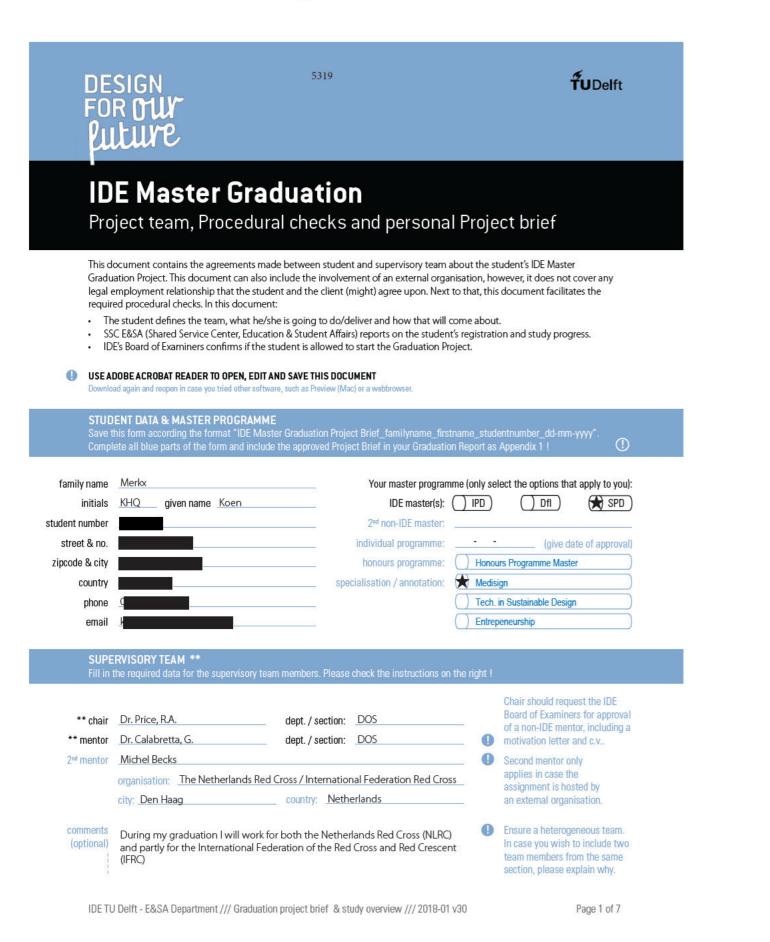


- Barangay representatives and different organisations representative of the barangay can help the project team with dissemination.
- Barangay can train these representative and family members of epileptic individual with BLS / First aid trainings





# APPENDIX 7: Project brief



Procedural Checks - IDE Master Graduation APPROVAL PROJECT BRIEF To be filled in by the chair of the supervisory team. chair Dr. Price, R.A. date 03 - 09 CHECK STUDY PROGRESS To be filled in by the SSC E&SA (Shared Service Center, Education & The study progress will be checked for a 2nd time just before the gre Master electives no. of EC accumulated in total: \_27 \_\_\_\_ EC Of which, taking the conditional requirements into account, can be part of the exam programme 27 EC List of electives obtained before the third semester without approval of the BoE name <u>C. van der Bunt</u> date 15 - 10 FORMAL APPROVAL GRADUATION PROJECT To be filled in by the Board of Examiners of IDE TU Delft. Please check Next, please assess, (dis)approve and sign this Project Brief, by using Does the project fit within the (MSc)-programme of Conte the student (taking into account, if described, the activities done next to the obligatory MSc specific Proce courses)? • Is the level of the project challenging enough for a MSc IDE graduating student? - N · Is the project expected to be doable within 100 working days/20 weeks ? Does the composition of the supervisory team comply with the regulations and fit the assignment? Monique von Morgen 26/10/2 date name IDE TU Delft - E&SA Department /// Graduation project brief & study Initials & Name KHQ Merkx Title of Project Developing design training for Red Cross youth volunteers.

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APPROVED By raprice at 1:44 pm, Sep 03, 2021
252
tudent Affairs), after approval of the project brief by the Chair. In light meeting.
YES all 1 <sup>st</sup> year master courses passed
NO missing 1 <sup>st</sup> year master courses are:
) <u>- 2021</u> signature
the supervisory team and study the parts of the brief marked **. the criteria below.
v) APPROVED NOT APPROVED
dure: V APPROVED NOT APPROVED
Not approved for Medisign!
comments
2021 MvM - signature
overview /// 2018-01 v30 Page 2 of 7 Student number <u>4384369</u>

Removed Project Priof, 1954 and 195	<b>Personal Project Brief</b> - IDE Master Graduation				
rsonal Project Brief - IDE Master Graduation	introduction (continued): space for images				
eveloping design training for Red Cross youth volunteers.					
e state the title of your graduation project (above) and the start date and end date (below). Keep the title compact and simple. t use abbreviations. The remainder of this document allows you to define and clarify your graduation project.					
01 - 09 - 2021 end date					
RODUCTION ** se describe, the context of your project, and address the main stakeholders (interests) within this context in a concise yet					
te manner. Who are involved, what do they value and how do they currently operate within the given context? What are the oportunities and limitations you are currently aware of (cultural- and social norms, resources (time, money,), technology,).					
ernational Red Cross Red Crescent Movement (IFRC) is an international humanitarian movement with around lion volunteers, members and employees worldwide. Founded in 1864 by Henry Dunant, after witnessing war in the town of Solferino in Italy.	The Netherlan Red Cross				
2 national organizations the IFRC is the largest humanitarian organization in the world. Each entity works in me country, according to the principles of humanitarian law.					
y new organ of the IFRC is the Solferino Academy (SA). The SA aims to challenge and inspire the way people k, act and connect. It helps the IFRC to transform to be more resilient for the future complexities and rapid in order to meet the humanitarian and development challenges.					
ly, The Solferino Academy launched the IFRC innovation academy called Limitless. With Limitless, the IFRC aims oort Red Cross Red Crescent volunteers and employees all over the world with a project they have in mind to eir community recover from the impacts of the COVID-19 pandemic.	image / figure 1: <u>NLRC &amp; IFRC logo's</u>				
ants from all over the world will join the academy, from which 50 projects will be selected for further g and additional funding. Up to 15 finalist will receive €10.000 to run long-term innovation.					
plicants (mostly from developing countries) have limited resources for addressing the problems they are he challenge is to find a way to teach all participants a certain level of innovation, in terms of design methods, d more. This teaching is done by a series of workshops, followed by a mentoring program. In this mentoring the youth volunteers from all selected Red Cross Red Crescent societies over the world are trained in design					
des the IFRC, the Netherlands Red Cross (NLRC) is adapting human centered design into their national society. ether with their 12 partner national societies, this implementation and shift in mindset is happening in phases. The C is on the forefront of this development and they aim to transfer their knowledge to their partner national eties. All these partner national societies have lots of youth volunteers which can be trained in design thinking.	PHASE 1 PHASE 2 PHASE 2				
TU Delft side I will be mentored by Rebecca Price (chair) and Giulia Calabretta (mentor), both from the ent of Design, Organisation and Strategy and the subsection Marketing and Consumer Research. It them every other week to discuss my process and findings.	<ul> <li>Inspire Learn and get inspiration from a series of social innovation webinars.</li> <li>Innovation Academy, Interior Acad</li></ul>				
also be mentored by Michel Becks, who is part of the Humanitarian Innovation Lead of the NLRC. Together with a van Manen from the NLRC we will develop the workshops and Michel and me will (try to) participate as mentors g the Limitless mentoring phase.	Community Support Share your ideas online using #LimitlessIFRC to get support and feedback.				
	<ul> <li>Your innovation story         Apply to join the Academy by telling us:         <ul> <li>What inspires you and motivates you to apply?</li> <li>What is the COVID-19 related problem you want to focus on?</li> <li>Your initial idea to tackle the challenge and how it will help your community.</li> </ul> </li> </ul>				
ace available for images / figures on next page	image / figure 2:Limitless innovation academy timeline				
Delft - E&SA Department /// Graduation project brief & study overview /// 2018-01 v30 Page 3 of 7					
& Name KHQ Merkx Student number 4384369	IDE TU Delft - E&SA Department /// Graduation project brief & study over				
of Project Developing design training for Red Cross youth volunteers.	Initials & Name KHQ Merkx				

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#### SE 3 ..... PHASE 4 .....

dvanced Innovators 0 projects will be selected for mentoring and additional funding.

nnovation Academy, Advanced Innovators D projects will be selected for tentoring and additional funding.

verview /// 2018-01 v30

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Student number 4384369

olunteers.

## **fu**Delft

#### Personal Project Brief - IDE Master Graduation

#### PROBLEM DEFINITION \*\*

Limit and define the scope and solution space of your project to one that is manageable within one Master Graduation Project of 30 EC (= 20 full time weeks or 100 working days) and clearly indicate what issue(s) should be addressed in this project.

Red Cross volunteers around the world are mostly not familiar with design thinking, human centered design or other design related practices. To help them become more resilient for future challenges and help lifting projects they are currently initiating (Covid-19 related) to a higher level, design training is essential.

Besides external projects, an internal innovation mindset is something the NLRC is aiming for. Employees with various different backgrounds should be introduced to design tools and taught how to become resilient by design innovation.

Design training has to be developed for the youth volunteers, which are all facing specific local challenges. Therefore the training should be tailored to this target group and touch upon the most relevant, generally usable design tools and methods which the volunteers can use to improve their project / address their problems in their home countries.

After development, this training can be used in the mentoring phase of the Limitless innovation academy and in separate sessions with partner national societies of the NLRC.

#### ASSIGNMENT \*\*

State in 2 or 3 sentences what you are going to research, design, create and / or generate, that will solve (part of) the issue(s) pointed out in "problem definition". Then illustrate this assignment by indicating what kind of solution you expect and / or aim to deliver, for instance: a product, a product-service combination, a strategy illustrated through product or product-service combination ideas, .... In case of a Specialisation and/or Annotation, make sure the assignment reflects this/these.

L will research design training and analyze design workshops from the Limitless innovation academy, followed by developing a design training for Red Cross youth employees. Use this training for the mentoring phase of the IFRC's Limitless innovation academy and for sessions with the partner national societies of the NLRC.

Over the period of my graduation I aim to develop a design training for youth employees and volunteers of the Red Cross. This training can be put into practice via two channels; during the mentoring phase of the Limitless innovation academy and in sessions with partner national societies of the NLRC.

The training will involve several relevant design tools and aims to create an innovation mindset for the participants. Together with the NLRC I will develop the design training.

The training will be a product which I am able to test during my graduation through the two channels listed above. This allows me to iterate after the first editions and improve it where possible.

All the content will be based on literature research and analysis of the workshops hosted during the second phase of the Limitless innovation academy, which I will attend as a spectator. This enables me to learn and get a feeling of the level of expertise the youth volunteers of the Red Cross societies all over the world already have, where training is helpful and relevant and what the main subjects are about.

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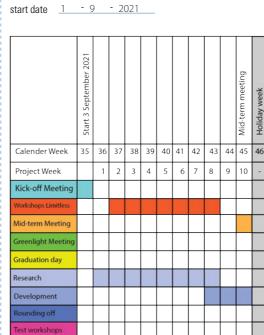
Page 5 of 7

Initials & Name KHQ Merkx Student number 4384369

Title of Project \_\_\_\_\_\_ Developing design training for Red Cross youth volunteers.

#### Personal Project Brief - IDE Master Graduation

PLANNING AND APPROACH \*\* PLANNING AND APPRUALH \*\*\* Include a Gantt Chart (replace the example below - more examples can be found in Manual 2) that shows the different phases of your project, deliverables you have in mind, meetings, and how you plan to spend your time. Please note that all activities should fit within the given net time of 30 EC = 20 full time weeks or 100 working days, and your planning should include a kick-off meeting, mid-term meeting, green light meeting and graduation ceremony. Illustrate your Gantt Chart by, for instance, explaining your approach, and please indicate periods of part-time activities and/<del>or</del> periods of not spending time on your graduation project, if any, for instance because of holidays or parallel activities.



This Gantt chart gives an overview of the planning.

The kick-off meeting will take place on the September 2th. Signing the graduation proposal will be on September 3rd. Therefore the first week of my graduation project will start September 6th (week 36).

My project will start with literature research and analyzing the Limitless innovation academy workshops (from 15 Sept. - 31 Oct.). After literature research and analysis of the workshops I will start developing the design training, from project week 8 onwards. The Mid-term meeting will take place in the 10th project week (decision on specific date via Datumprikker). The week after I will have a week off. Development continues till one week after the Christmas break.

The mentoring program of the Limitless innovation academy runs in two parts; part one from 8 - 17 Dec. and part two from 10 - 28 January. I plan to be part of the mentoring team during weeks 49 and 50 with Michel. In this weeks I will also give a training session (= 'test workshop' in chart) to some partner national societies (to be determined) of the NI RC.

The Greenlight meeting will take place in project week 16, the week after the Christmas holiday (decision on specific date via Datumprikker). The graduation presentation will take place in project week 20, approximately 4 weeks after the Greenlight meeting.

IDE TU Delft - E&SA Department /// Graduation project brief & study overview /// 2018-01 v30 Initials & Name KHQ Merkx

Title of Project Developing design training for Red Cross youth volunteers.

## **TU**Delft

end date

					Holiday week	Holiday week	Greenlight meeting				Graduation presentation	
47	48	49	50	51	52	1	2	3	4	5	6	7
11	12	13	14	15	-	-	16	17	18	19	20	21

1 - 2 - 2022

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Student number 4384369

# **APPENDIX 8: Picture collection**

#### Personal Project Brief - IDE Master Graduation

## **TU**Delft

#### MOTIVATION AND PERSONAL AMBITIONS

Explain why you set up this project, what competences you want to prove and learn. For example: acquired competences from your MSc programme, the elective semester, extra-curricular activities (etc.) and point out the competences you have yet developed. Optionally, describe which personal learning ambitions you explicitly want to address in this project, on top of the learning objectives of the Graduation Project, such as: in depth knowledge a on specific subject, broadening your competences or experimenting with a specific tool and/or methodology, ... . Stick to no more than five ambitions.

The IFRC and the NLRC have always been a inspiring movement to me, delivering incredible work and improving humanity wherever possible. The Red Cross is working on becoming more resilient for all the complex future challenges, which creates opportunities for us as (strategic) designers to assist them in this process.

I had great interest in their work and always wanted to participate in a humanitarian related project. I am curious to find out how I can contribute to this movement, with my gained knowledge from the past years.

I believe that The Solferino Academy has a the right platform for integrating design thinking, design methodologies and more to prepare and support the IFRC for all the future challenges and the NLRC has a great platform to incorporate an innovation mindset in their own national society and also in their partner's national societies.

Personally I want to prove to myself that the knowledge I gained over the last years enables me to inspire and teach others a bit about the world of (strategic) design. This contains multiple competences, like tools for (visual) communication (like sketching, animations, storyboarding...), holistic thinking, prototyping and more.

I want to explore how I can transfer this knowledge to people all over the world who are not/limited familiar with these competences. Eventually the goal is to create something which has real value in practice and can possibly be further explored after finishing this 20 week period of graduation.

Universal communication, verbal skills, knowledge of cultures are objectives I would like to address during my graduation project. I imagine things like co-creating sessions with people from developing countries and creating workshops concerning design and innovation.

Furthermore I want to manage my graduation project in comfortable manner, so I can go through this journey as efficient and successful as possible, making it the most fun project during my 6 years as a student!



Working on the concept at the NLRC office



Focus groups! (One of many screenshots)

## FINAL COMMENTS

IDE TU Delft - E&SA Department /// Graduation project brief & study overview /// 2018-01 v30 Page 7 of 7 Initials & Name KHQ Merkx Student number 4384369 Title of Project \_\_\_\_\_\_ Developing design training for Red Cross youth volunteers.



