

10. Appendix

This are the appendices of the graduation report of Sarissa Bakker with the title: Feeling Home - Opening up to the variety of flavours of living together in Woonontwikkeling Vredeoord. The list below shows the appendixes that can be found in this report.

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- Appendix 2 Background information about the Bubble Games project
- Appendix 3 Background information about the Empathy Framework
- Appendix 4 Background information about the Empathic Journey Framework
- Appendix 5 Insights about the interviews with professionals about possible tension areas
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Appendix 1 - Graduation Brief



TUDelft

IDE Master Graduation Project

Project team, procedural checks and Personal Project Brief

In this document the agreements made between student and supervisory team about the student's IDE Master Graduation Project are set out. This document may also include involvement of an external client, however does not cover any legal matters student and client (might) agree upon. Next to that, this document facilitates the required procedural checks:

- Student defines the team, what the student is going to do/deliver and how that will come about
- Chair of the supervisory team signs, to formally approve the project's setup / Project brief
- SSC E&SA (Shared Service Centre, Education & Student Affairs) report on the student's registration and study progress

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CHECK ON STUDY PROGRESS

To be filled in **by SSC E&SA** (Shared Service Centre, Education & Student Affairs), after approval of the project brief by the chair. The study progress will be checked for a 2nd time just before the green light meeting.

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APPROVAL OF BOARD OF EXAMINERS IDE on SUPERVISORY TEAM -> to be checked and filled in by IDE's Board of Examiners

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Personal Project Brief - IDE Master Graduation Project

Name student Sarissa Bakker Student number 4,858,549

PROJECT TITLE, INTRODUCTION, PROBLEM DEFINITION and ASSIGNMENT

Complete all fields, keep information clear, specific and concise

Design and test a non-VR intervention based on the Empathic Journey Framework to decrease tension between opposing groups of people living in Eindhoven

Please state the title of your graduation project (above). Keep the title compact and simple. Do not use abbreviations. The remainder of this document allows you to define and clarify your graduation project.

Introduction

Describe the context of your project here; What is the domain in which your project takes place? Who are the main stakeholders and what interests are at stake? Describe the opportunities (and limitations) in this domain to better serve the stakeholder interests. (max 250 words)

This project will be carried out for the municipality of Eindhoven, where the context of the project is also set. The municipality has previously collaborated with various design teams and researchers on the Bubble Games Project. Here an empathic virtual reality (VR) intervention was designed to decrease tensions between youth and residents of a neighbourhood in Eindhoven (Sleeswijk Visser & van Erp, 2023). Inspired by this project and two other empathy VR projects, Spek et al. (2024) studied three different design cases featuring empathy-building VR interventions. Based on these cases and empathic design theory, they introduced the Empathic Journey Framework (Spek et al., 2024). Building on Spek et al.'s framework (see Figure 1), I will design a non-VR empathic journey intervention for two groups of residents in Eindhoven where tension is present. The specific target group will be determined in the first weeks of the project. The goal of this project is to design an intervention which can reduce tensions between the two target groups. Additionally, this project aims to evaluate whether the current framework can be adapted for non-VR interventions too.

Sleeswijk Visser, F. and van Erp, J. (2023): Empathy building through Virtual Reality filmmaking in social innovation: decreasing tensions between socially opposed citizens.

Strategic Design Research Journal 16(1), Jan-April 2023. DOI: 10.4013/sdrj.2023.161.02 Spek, D., Sleeswijk Visser, F. & Smeenk, W. (2024). It really touches me: How to design Empathic Journeys with Virtual Reality in societal challenges. 10.21606/drs.2024.340.

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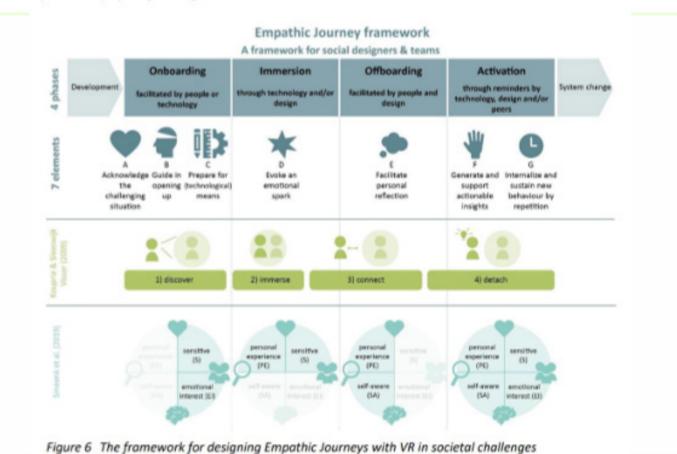


image / figure 1 Empathic Journey Framework (Spek et al., 2024)



image / figure 2



Personal Project Brief - IDE Master Graduation Project

Problem Definition

What problem do you want to solve in the context described in the introduction, and within the available time frame of 100 working days? (= Master Graduation Project of 30 EC). What opportunities do you see to create added value for the described stakeholders? Substantiate your choice. (max 200 words)

In Eindhoven, where the population is increasing, the municipality has observed different growing tensions among residents in certain areas (allecijfers.nl, 2024)(Gemeente Eindhoven, n.d.). These tensions among residents drives them apart from each other, which causes polarisation. This project is focussed on the reduction of tensions between opposing groups (Sleeswijk Visser & van Erp, 2023).

In the first weeks of this project the two target groups and their tensions will be determined.

AlleCijfers.nl. (2024). Statistieken Gemeente Eindhoven. Retrieved on the 27th of june 2024 from https://allecijfers.nl/gemeente/eindhoven

Gemeente Eindhoven. (2024). Eenzaamheid. Retrieved on the 27th of june 2024 from

https://www.eindhoven.nl/bestuur-en-beleid/gezondheidsbeleid/eindhovens-preventieakkoord/eenzaamheid

Sleeswijk Visser, F. and van Erp, J. (2023): Empathy building through Virtual Reality filmmaking in social innovation: decreasing tensions between socially opposed citizens.

Strategic Design Research Journal 16(1), Jan-April 2023. DOI: 10.4013/sdrj.2023.161.02

Assignment

This is the most important part of the project brief because it will give a clear direction of what you are heading for.

Formulate an assignment to yourself regarding what you expect to deliver as result at the end of your project. (1 sentence)

As you graduate as an industrial design engineer, your assignment will start with a verb (Design/Investigate/Validate/Create), and you may use the green text format:

Design and test a non-VR intervention based on the Empathic Journey Framework to decrease tension between opposing groups of people living in Eindhoven.

Then explain your project approach to carrying out your graduation project and what research and design methods you plan to use to generate your design solution (max 150 words)

In the first weeks I am going to conduct fieldwork in Eindhoven to determine the two opposed groups with tension. I will be researching existing non-VR interventions and analyse what worked and what not, also in comparison with the empathic journey framework (Spek et al., 2024). To gain a better understanding of the target group I will set up a target group panel for the interviews and validation in next steps. Generative research methods will be used in these sessions for rich insights (Sanders & Stappers, 2012). Analysis on the wall method will be used for analysis of sessions results (Sanders & Stappers, 2012). The design of the intervention will be done based on my research, the Empathic Journey Framework and the literature research. I will use generative research and prototyping methods to come up with intervention ideas (Sanders & Stappers, 2012). To validate the design I will contain sessions with the target group session panel (multiple times). By analysing the results of the design I will also validate the empathic journey framework and see if this can be improved for non-VR interventions based on my research.

Sanders, EBN., & Stappers, PJ. (2012). Convivial toolbox: Generative research for the front end of design. Bis. // Spek, D., Sleeswijk Visser, F. & Smeenk, W. (2024). It really touches me: How to design Empathic Journeys with Virtual Reality in societal challenges. 10.21606/drs.2024.340.

Project planning and key moments

To make visible how you plan to spend your time, you must make a planning for the full project. You are advised to use a Gantt chart format to show the different phases of your project, deliverables you have in mind, meetings and in-between deadlines. Keep in mind that all activities should fit within the given run time of 100 working days. Your planning should include a kick-off meeting, mid-term evaluation meeting, green light meeting and graduation ceremony. Please indicate periods of part-time activities and/or periods of not spending time on your graduation project, if any (for instance because of holidays or parallel course activities).

Make sure to attach the full plan to this project brief. The four key moment dates must be filled in below

Kick off meeting	4 September 2024
Mid-term evaluation	5 Nov 2024
Green light meeting	7 Jan 2025
Graduation ceremony	13 Feb 2025

	ate here if such applies to you	Ť	
Par	rt of project scheduled part-time	2	
	For how many project week	s	
N	lumber of project days per wee	k	
Comm	ents:		

Motivation and personal ambitions

Explain why you wish to start this project, what competencies you want to prove or develop (e.g. competencies acquired in your MSc programme, electives, extra-curricular activities or other).

Optionally, describe whether you have some personal learning ambitions which you explicitly want to address in this project, on top of the learning objectives of the Graduation Project itself. You might think of e.g. acquiring in depth knowledge on a specific subject, broadening your competencies or experimenting with a specific tool or methodology. Personal learning ambitions are limited to a maximum number of five.

(200 words max)

During the master course Exploring Interaction, I first learned to apply generative research methods to design and validate ideas. Working closely with the target group enriched my creative process and motivated me to use these techniques in future projects. I appreciate how their feelings, thoughts, and emotions are genuinely considered. During my internship, I further developed my skills with generative tools and analysis on the wall, which gives me positive energy throughout the design process.

The combination of working with the target group and focusing on empathy in this graduation project excites me to start. I aim to improve myself as a social designer by applying these methods and learning more about the empathy-building process to integrate it consciously into my designs. My personal goal is to make a positive impact on the target group through this project.

Additionally, I am eager to understand to role of a designer within a municipality. I have done an internship at a design company and now I want to experience another type of design environment during my graduation project to see if this type of job would be another opportunity to work after graduation.

Appendix 2 - Background information about the Bubble Games project

This graduation project is a side track of the Bubble Games project. The first edition is carried out by the Bubble Games consortium, consisting of Gemeente Eindhoven, Fabrique, LB MGMT, TU Delft, VR Gorilla, Fonkeling en Fontys. The test to prove the impact has been done in the Effenaar in Eindhoven.

The research questions of this project were: how can we design with the eye on empathy? and how can VR-technology play a role in this? The goal was to let two opposing groups step into the world of the other to reduce tensions between those groups. It is explored if VR (virtual reality) can play a role against polarisation (Fabrique, n.d.).

The project took place in the neighbourhood Meerhoven where the youth and residents experienced tensions. At that moment there was no conflict yet, but high tensions between the opposing groups could lead to bigger problems (Fabrique, n.d.).

The outcome of the project was a journey intervention with the VR film named 'alsof ik je al ken...' (translated: as if I already know you...). The result of the intervention exceeded the expectations. Within the 8 minutes (duration of the VR-film) the participants stepped into the world of the

other and understanding of the others situation has been formed. After the film the youth and residents together developed ideas to tackle the problems in their neighbourhood. These ideas have been presented to the municipality of Eindhoven (Fabrique, n.d.).

Because of the promising results, the Bubble Games project is now further exploring how VR interventions can be used as a tool to reduce polarisation. However, meanwhile they are interested to see if a non-VR tool can be designed to reach the same aim. As a side track of this the municipality of Eindhoven has offered a graduation internship to explore the non-VR side of the project. One of the research questions for this graduation project therefore is if it is possible to design a non-VR tool to reduce polarisation.

The municipality has a lot of knowledge about the area, neighbourhood, residents and professionals working in the neighbourhood. The role of the municipality in this project is to help me get in contact with the right people to give the project a kick start. If the outcome of this project is positive for the residents, the municipality can benefit from this.

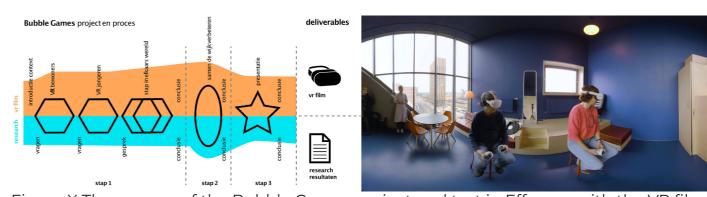


Figure X The process of the Bubble Games project and test in Effenaar with the VR film

Appendix 3 - Background information about the Empathy Framework

A3.1 Why design for empathy?

In this graduation project empathy is taken as a possible mean to decrease the tensions between the opposing groups. According to Devecchi & Guerrini (2017) designers nowadays should make the shift from design WITH empathy to design FOR empathic experiences: "The empathic experience, in our view, is per se an end to pursue, rather than a means designers can use to gain insights about end-users" (Devecchi & Guerrini, 2017).

There are a lot of definitions of the word empathy, which can be seen as an evidence of the importance of it (Devecchi & Guerrini, 2017). This, however, also leads to different interpretations of empathy. In this project empathy is about imaging the world from another's point of view, or understanding someone's situation through perspective thinking (Sleeswijk Visser & van Erp, 2023)(Kourpie & Visser, 2009).

Based on literature review, Kourpie and Visser (2009) defined a framework for empathy in design for designers. The framework, see figure X, shows empathy can be enhanced by a stepwise process. It also includes with cognitive and affective efforts. It consists out four phases, discovery, immersion, connection and detachment.

In this framework, by stepping in and outs someone world, empathy can be enhanced and the designer understand the others perspective. However, this framework is designed for designers. To design for empathic experiences, the users should be able too to complete this journey. The above described framework is used in the Empathic Journey Framework of Spek et al., (2024), but designed for users to step in and out the opposing groups world. This framework will be used this graduation project to let the opposing groups step into each others world.

The framework will be explained more detailed on the next page.

In the discovery phase the user's world is entered, curiosity is raised when making the first contact which results in the willingness to explore and discover. In the immersion phase the designer steps into the user's context and is taking the point of reference of the other. It is important that the designer is taking an open perspective to absorb without any judgements. In the connection phase the designer relates to the person by reflecting on its own memories. Recalling their own memories creates the connection between the empathiser and the other.

Inthelast phase, detachment, the designer steps out of the others world and can use the experience to better understand the other thanks to reflection. To make the process of empathy work, three points are important to take into account. Motivation is crucial to empathise with the other, being aware the process both includes affective resonance and cognitive reasoning, flexibility has a positive effect on the outcome and taking enough time for this process is important (Kourpie & Visser, 2009).

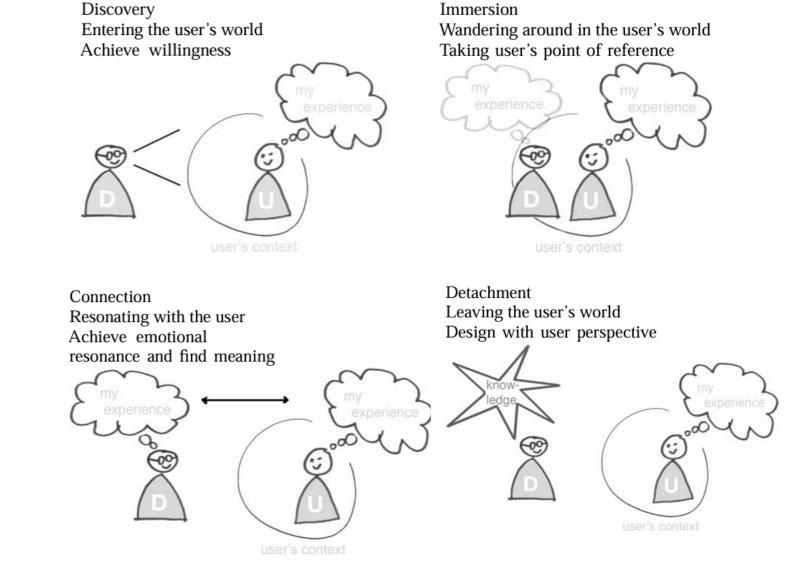


Figure X Empathy framework of Kourpie and Sleeswijk Visser (2009)

A3.2 How to evaluate empathy?

Important during this research project is the measurement of the empathy level of the participants about the opposing group. In literature there is a lot known about measuring empathy by people, but those are mostly focused on find out if someone has either Aspergers or autistic ticks rather than measuring it in generative research.

However, during the previous Bubble Erp, 2023). Games project, Sleeswijk Visser and van Erp (2023) measured the empathy level of the participants throughout the process on different key moments. Mixed methods approaches are used to document their 1. Their motivation led to activation empathic levels such as interviews, 2. Triggering curiosity by reflecting on observation and self-measurement. During the process the researchers kept 3. Perspective changes fieldnotes to measure their empathy.

The participants were interviewed briefly before the intervention and immediately afterwards they were asked for reflections. In the end the participants were asked to draw and describe their 'line of empathy', see figure X. Two weeks after the cocreation session the participants were interviewed about their experiences and whether they have discussed them with their community (Sleeswijk Visser & van

Based on the research of Bryman, 2016, the Bubble Games project reviewed the empathy level based on four indicators;

- own beliefs,
- 4. Shooting terms

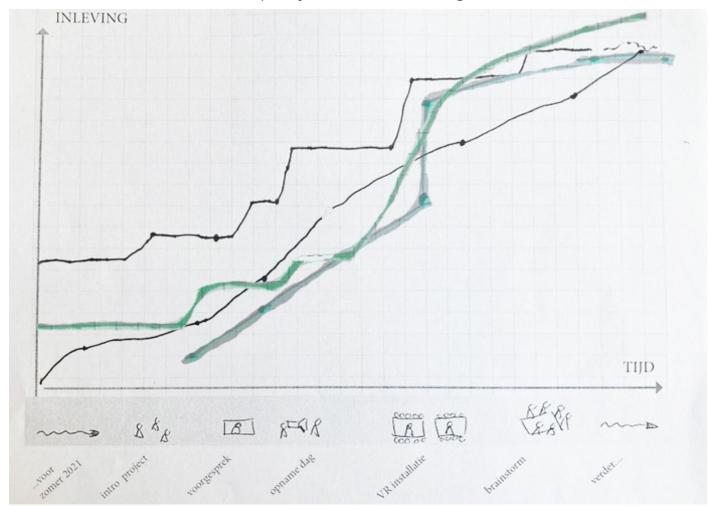


Figure X Measuring empathy during the bubble games project with the participants' line of empathy (TU Delft, 2022)

Another research of Smeenk et al. (2024) paper referentie) did research to an empathy compass as measurement for empathic level by evaluating two case studies. During the first case study of this paper they used semi-structured interviews to measure the empathy students have towards the topic. They used it at the start of the project, the baseline measurement, and at the end of the project, the final measurement. The guestions in both interviews were asked around the four aspects of the Empathic Formation Compass, personal experience, sensitivity, emotional interest and self-awareness. The transcribed interview made it possible to place quotes on the Empathic Formation Compass. Their research state that mapping quotes from the baseline and final interviews can effectively illustrate empathic formation. (Smeenk et al., 2024).

The research of Smeenk et al. (2024) received feedback from the participants that sharing experiences, having dialogs with each other and stakeholders are impactful interactions contributing to more empathy. Important here was a safe and trustworthy environment. The firstand second-person perspective helped them best for gaining empathy. Thirdperson perspectives such as desk research and literature studies were less engaging (Smeenk et al., 2024).

Both research projects of Smeenk et al. (2024) and Sleeswijk Visser and van Erp (2023) used interview techniques as a tool to measure empathy. To integrate interview question pre-, during and post intervention the different stages of empathy can be identified. For this project I would like to integrate selfdocumentation as well, as it fits into both the use of generative research methods and the reflection session with the participants in the end of the project.



Appendix 4 - Background information about the Empathic Journey Framework

The Empathic Journey Framework is a framework for designing Empathic Journeys with Virtual Reality (VR) in societal challenges (Spek et al., 2024). The phases in the framework are a guide for the designers to make the participant, from now on empathisers, able to follow a empathic journey. This framework is based on the empathy in design theories of Kourpie & Sleeswijk Visser (2009) and Smeenk et al. (2019) and three different design cases featuring empathy-building VR interventions (Spek et al., 2024).

The three cases varied a lot, from better quality of life and work practices for (in)formal caregivers and people with dementia to decrease tensions between youth and residents of a neighbourhood to improving the self-confidence and skills of insecure detectives. The interventions made varied from a VR simulation, VR film and VR training with interactive or 3D elements (Sleeswijk Visser & van Erp, 2023) (Spek et al., 2024).

The framework consist of 4 phases where the 7 elements are adapted, see figure X.

Empathic Journey framework

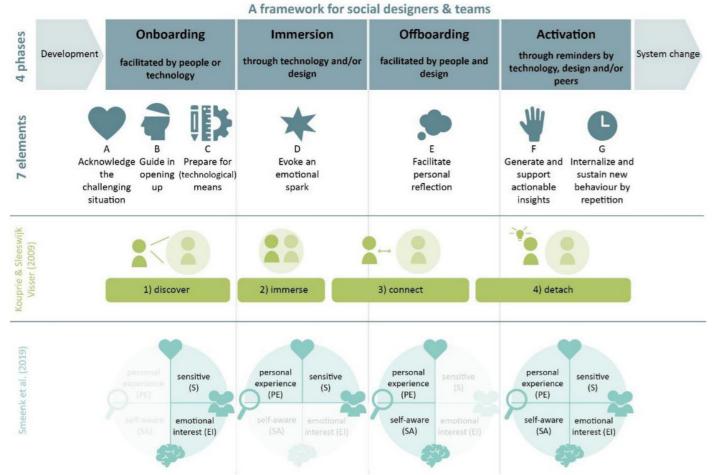


Figure X The Empathic Journey Framework, a framework for designing Empathic Journeys with VR in societal challenges (Spek et al., 2024)

In the first phase, onboarding, it is important to guide the empathiser in developing curiosity, emotional interest and sensitivity with others. The onboarding starts by acknowledging their difficult situation, guide them in opening up and prepare them for (technological) means.

The second phase is immersion, here an emotional spark is evoked through the intervention. This causes the empathisers being fully immersed, thanks to the intervention of technology and design. By attending their own experiences and feelings during the intervention, the empathisers allow connection with the others perspective. In this phase they do not judge or interpret, but experience and connect.

The third phase is offboarding, here the connection between the affective

experiences of the other and self are reflected with them and another person. This causes connection and detachment from the others perspective, making them self-aware. It is important to facilitate the reflection in such a way the empathiser can let go their first emotions to go back to daily life with new insights.

The last phase is activation, here the experiences of the first three phases generate new insights which can formulate new possible behaviour. To stimulate the new behaviour into long-term behaviour, reflection and repeated affective experiences can lead to this (Spek et al., 2024).

This framework will be used during this graduation project. It will be used as the base to create a non-VR intervention and thereby tested if this framework can be adapted to non-VR design cases too.

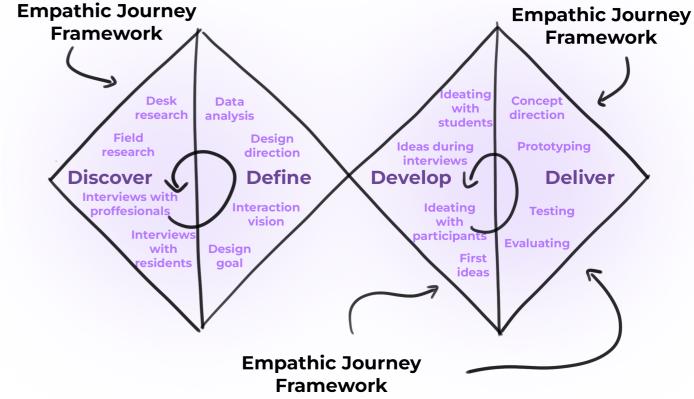


Figure X Empathic Journey Framework in the design process

Appendix 5 - Insights about the interviews with professionals about possible tension areas

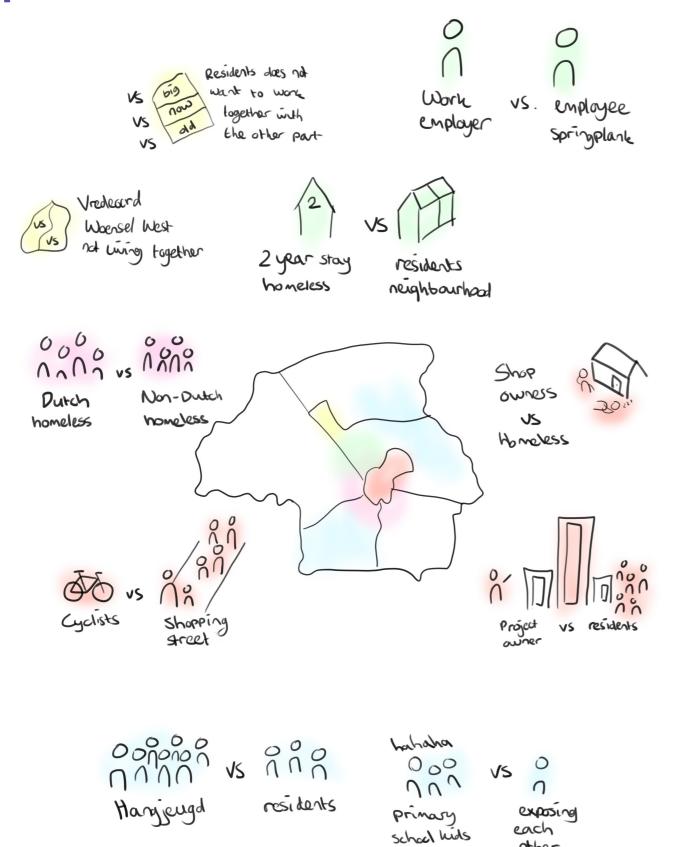
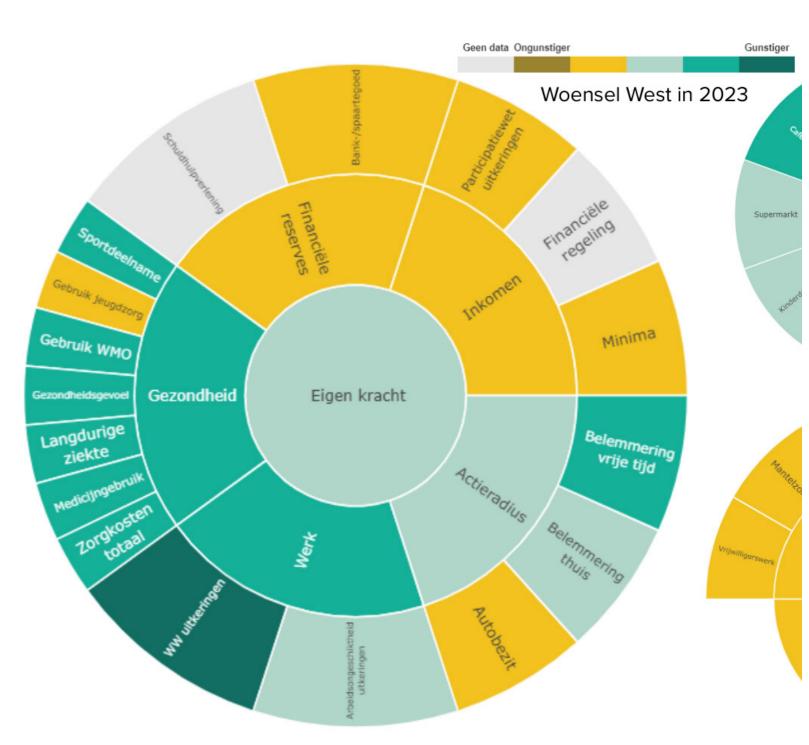
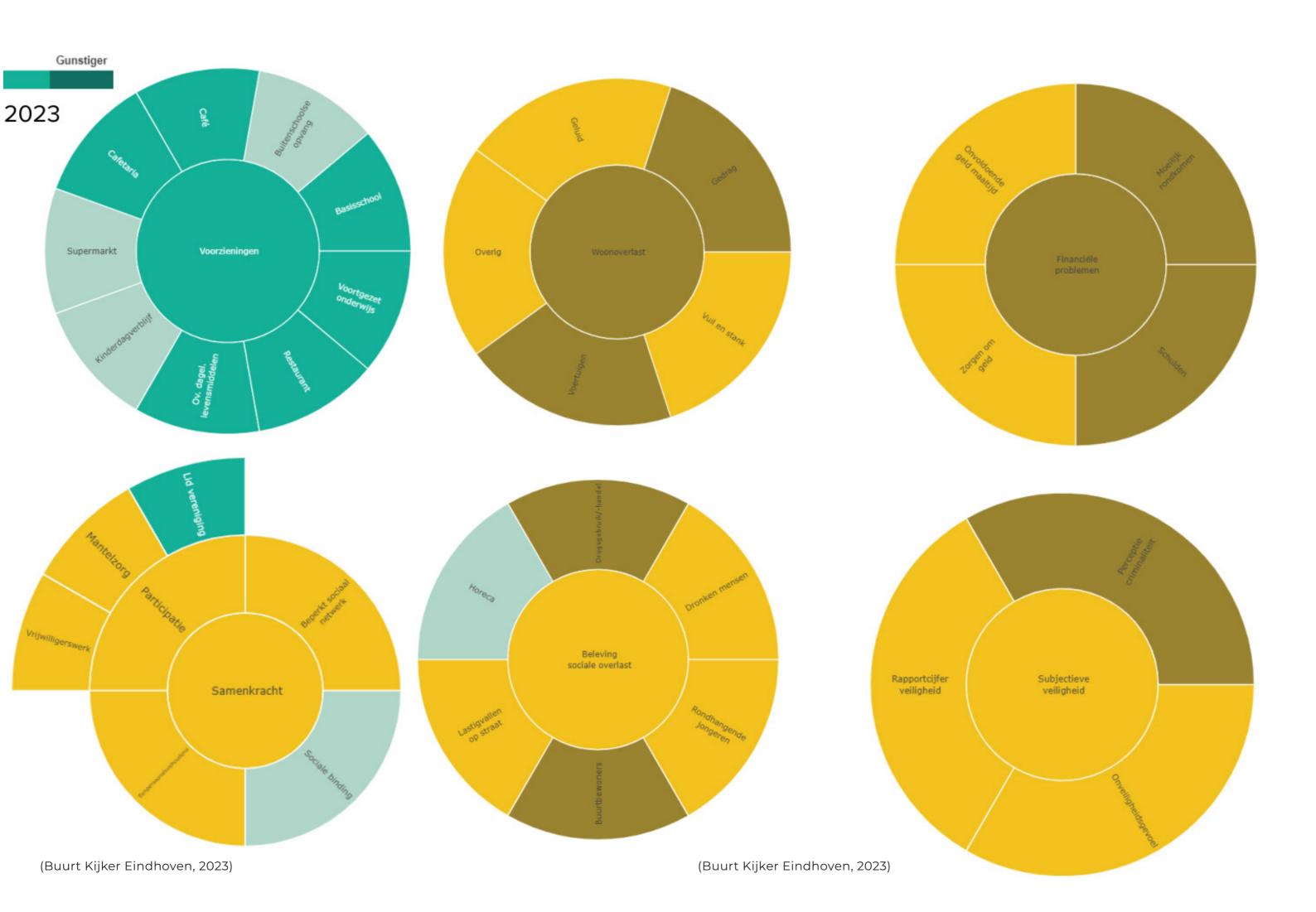


Figure X Different area's of fieldwork and its insights

Appendix 6 - Statistics of Woensel West



(Buurt Kijker Eindhoven, 2023)



Appendix 7 - Background information about generative research

The goal of generative research is to find out what people's values and needs are in the future and how these can be served through design (Sanders & Stappers, 2012). Generative research methods are research methods to support participants to map their everyday context, perceptions and needs around a certain topic. Those methods are often used next to interviews and observations, to enrich the research results. In gerentaive research a combination of methods to discover what people Say, Do and Make are used to acces different levels of knowledge of the participants. The strength of generative research methods is that it helps to discover the unconscious needs of the participants. Designers learn from their participants about the research topic and they gain rich insights about the users unconscious

needs. It thereby helps designers to meet the real needs of users (Sleeswijk Visser et al., 2005).

Therefore it is important the participants can tell their story, since they are the experts of their experiences. To make these future needs and values tangible for both participants and designers, the use of the path of expression is highly recommended in generative research, see figure X.

The path of expression has four steps (Sanders & Stappers, 2012):

- 1. Immersioninto current experiences
- 2. Activating feelings and memories about the past
- 3. Dreaming about the possible futures
- 4. Generating and expressing new ideas relating to the future experiences.

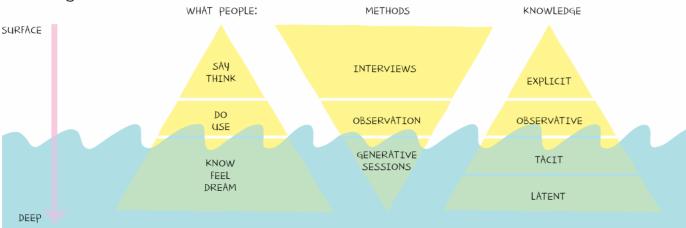


Figure X Path of expression (Sanders & Stappers, 2012)

Guiding participants through this journey makes the participants able to visualise their future values and needs. It is important to plan their journey so that they only reach the focus at the end of the journey and not be aware of it before.

Prior to the session, sensitising takes place. Sensitising helps the participant to get a feeling for the topic and goals of the study. It makes them familiar with the topic by collecting personal experiences to come well prepared to the session.

Concept

These sensitising topics are often called homework (Sanders & Stappers, 2012).

An example of a graduation project using generative research methods is explained in the paper of van Nifterink et al. (2021). They explored the possibilities of remote context mapping and prototyping in COVID period. The design process of this project is inspiring for this thesis. In the graduation project the following steps taken in the design process, see figure X.

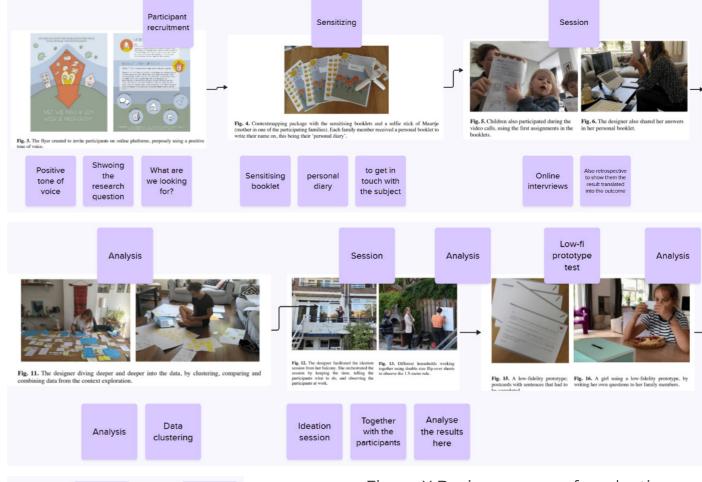
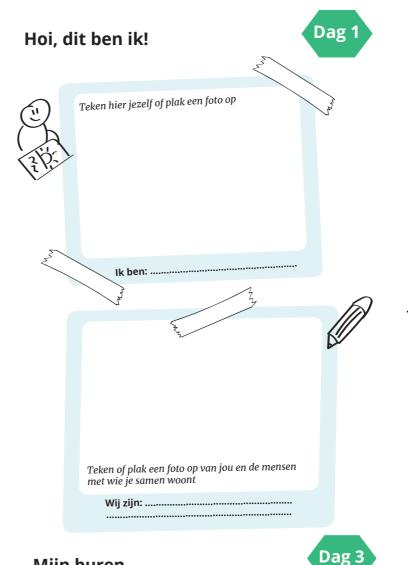


Figure X Design process of graduation project Nifterink et al. (2021)

Appendix 8 - Sensitising booklet used during the generative interviews





Mijn buren

Met welke buren heb jij contact? Plaats jou buren in de cirkel. De stip in het midden zijn de buren die dicht bij je staan, hoe verder naar buiten, hoe verder de buren van je af staan. Je mag zelf kiezen welke en hoeveel buren je op de cirkels plaatst.



Mijn woning



Waar ligt jouw woning in de buurt? Markeer jou woning op de (zelfgetekende of geprintte) plattegrond.



Omschrijf in 3	3 wooraen noe	e net voor jou v	oeit om nier in	te wonen.
•••••			•••••	•••••

Omschrijf hoe jij deze wijk ervaart. Dit kunnen losse woorden of een zin

Contact met mijn buren



Hoe hebben jij en je buren contact? Knip de plaatjes op deze pagina uit en plak ze op de burencirkel van dag X. Welke vorm van contact past bij welke buur? En welke buren hebben ook met elkaar contact? Trek lijntjes tussen





























Zijn er buren die je nog niet kent of hebt gesproken?



Mijn ervaringen



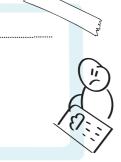
Wat is jouw favoriete plekje in de buurt? Is dit in jouw woning, tuin, buiten, de buurtschuur, etc.? Teken of maak een foto van jou favoriete plekje in het foto vakje.



Dit is mijn favoriete plekje omdat

Waar kom je liever niet in jou buurt? Teken of maak een foto van de plek waar je liever niet komt en plaats deze hieronder.

Hier kom ik liever niet:





Appendix 9 - Recruiting participants

Bedankt voor het fijne gesprek net!

Tijdens mijn afstudeerproject wil ik een manier ontwikkelen om wijkbewoners zo fijn mogelijk samen te laten wonen door in elkaars werelden te 'stappen'. Het doel van dit onderzoek is om de **ervaringen**, behoeftes en ideeën van enkele buurtbewoners in kaart te brengen. Want u bent de expert!

Benieuwd?

Lijkt het jou leuk om mee te doen of heb je vragen over dit onderzoek? Stuur dan gerust een email naar sansansen en hopelijk tot snel!

Hoi, mijn naam is Sarissa Bakker en ik ben bezig met mijn afstudeerproject aan de TU Delft, waarbij ik ook samenwerk met de gemeente Eindhoven. Tijdens dit ontwerpproject wil ik een manier ontwikkelen om buurtbewoners zo fijn mogelijk samen te laten wonen in hun buurt door in elkaars werelden te kunnen 'stappen'. Het doel van dit onderzoek is om de ervaringen, behoeftes en ideeën van enkele buurtbewoners in kaart te brengen, want jullie zijn de experts over de buurt!

Lijkt het jou leuk om mee te doen aan een interview of heb je vragen over dit onderzoek? Dan kun je mij een mailtje te sturen naar

Og:36

O

Appendix 10 - Analysis of the found themes

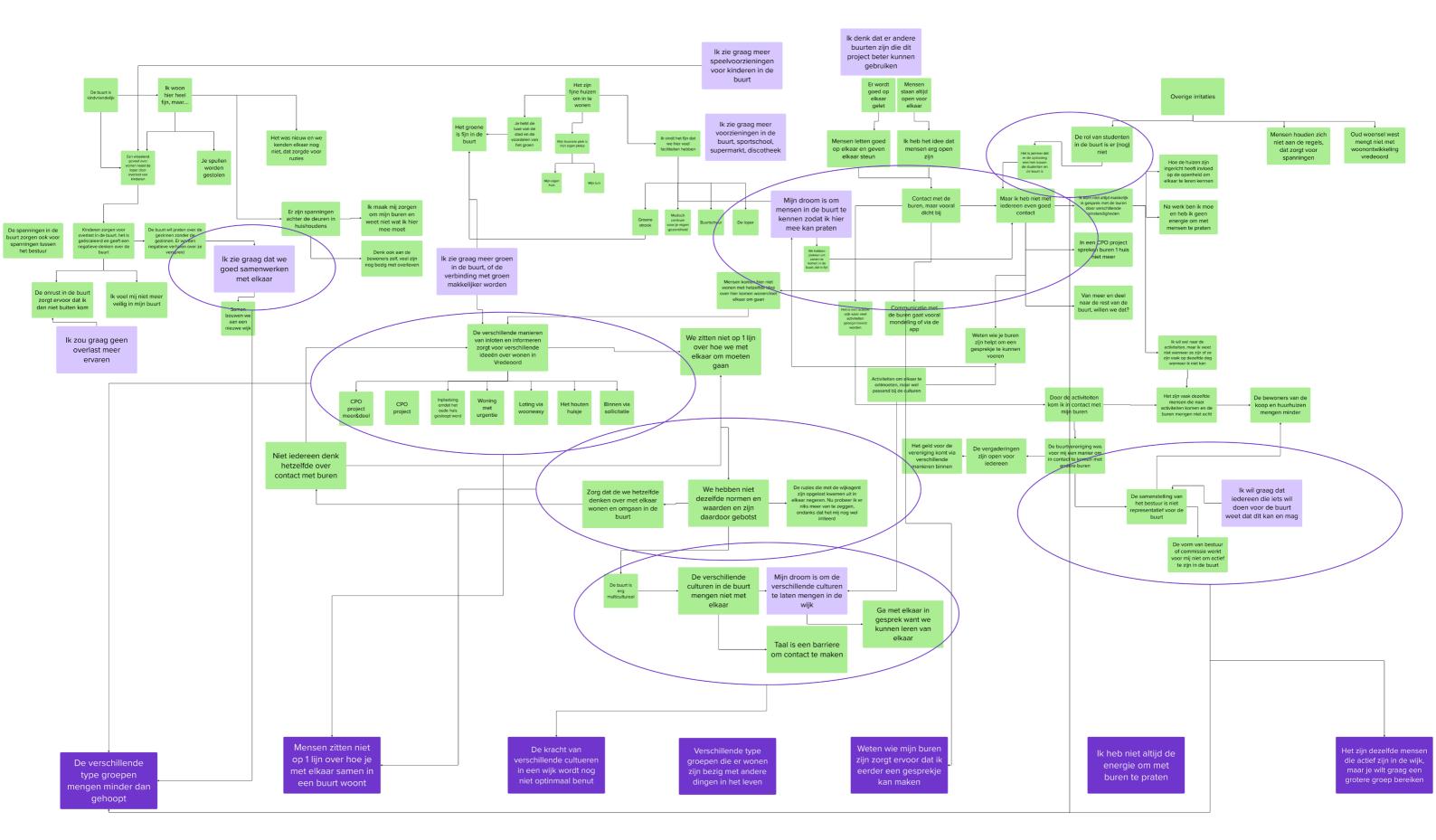


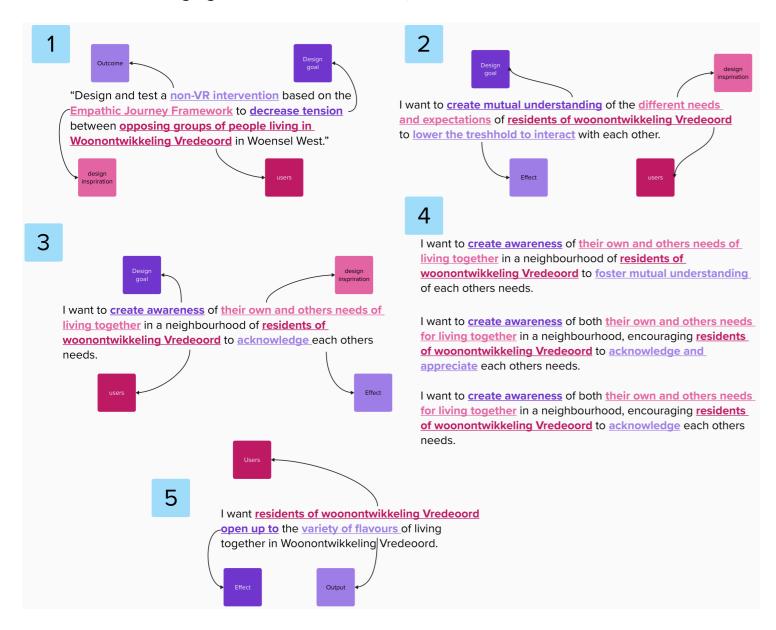
Figure X Diagram of analysis of the results inclusing the found themes

Appendix 11 - Design goal evolutions

The difficulty with formulating the design goal was finding the right words for what the goal is. Since almost all interviews were in Dutch the design goal was first formulated in Dutch. However, this lead to wrong translations in the design goal. For instance with the words 'mutual understanding' a different meaning is given to it in English than in Dutch. It was meant as the presentation of the different opinions are shared in a same way so that they are equally expressed and not that the first story has more wrong or right than the second story. But later I found out that mutual understanding in English does not mean 'gelijkwaardig begrip' in Dutch, so this caused confusion.

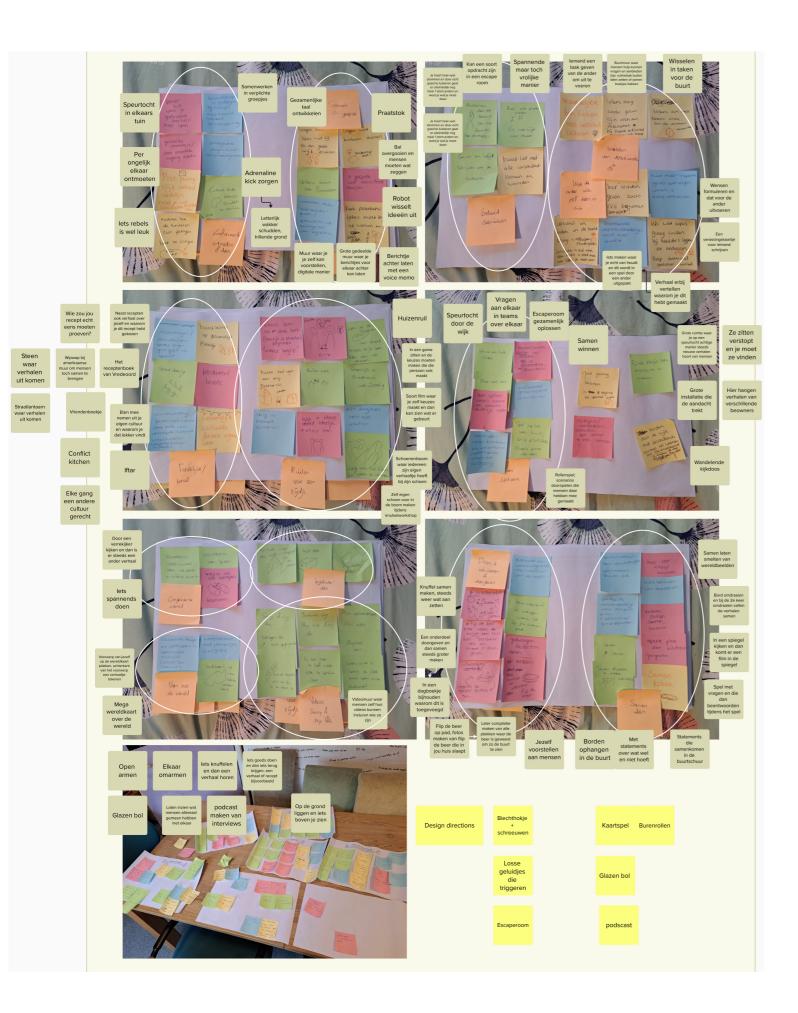
Another difficulty with the design goal is that these different ideas about living in the neighbourhood are not worse or better than the others. Someone can live in the neighbourhood for community and want to have good relationships with their neighbours, but someone else can live in the neighbourhood for comfort and does not have te need to speak to neighbors, where another lives in the neighbourhood for safety and the opportunity to be financially stable because of the rent prices in the neighbourhood. These motivations vary on a broad range, but all these ideals of living in Woonontwikkeling Vredeoord are okay. Therefore having in the design goal to interact with each other is not correct for those who do not need contact with their neighbours.

Therefore the design goal had several iterations, these are shown below.

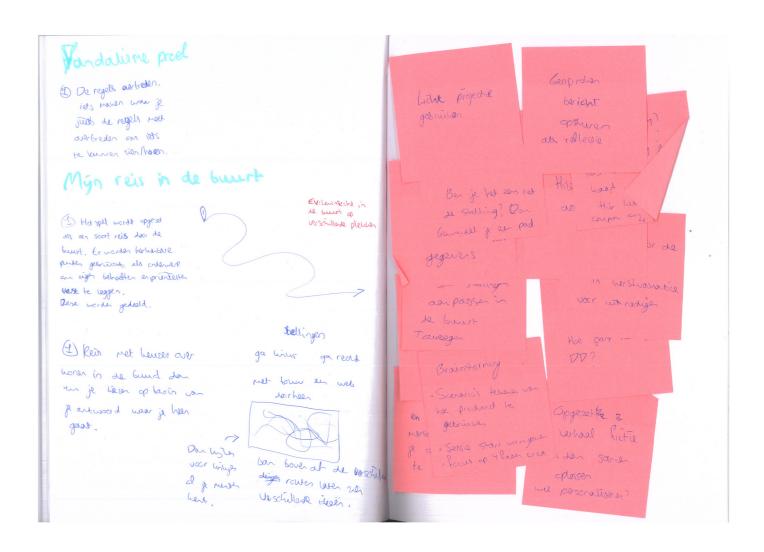


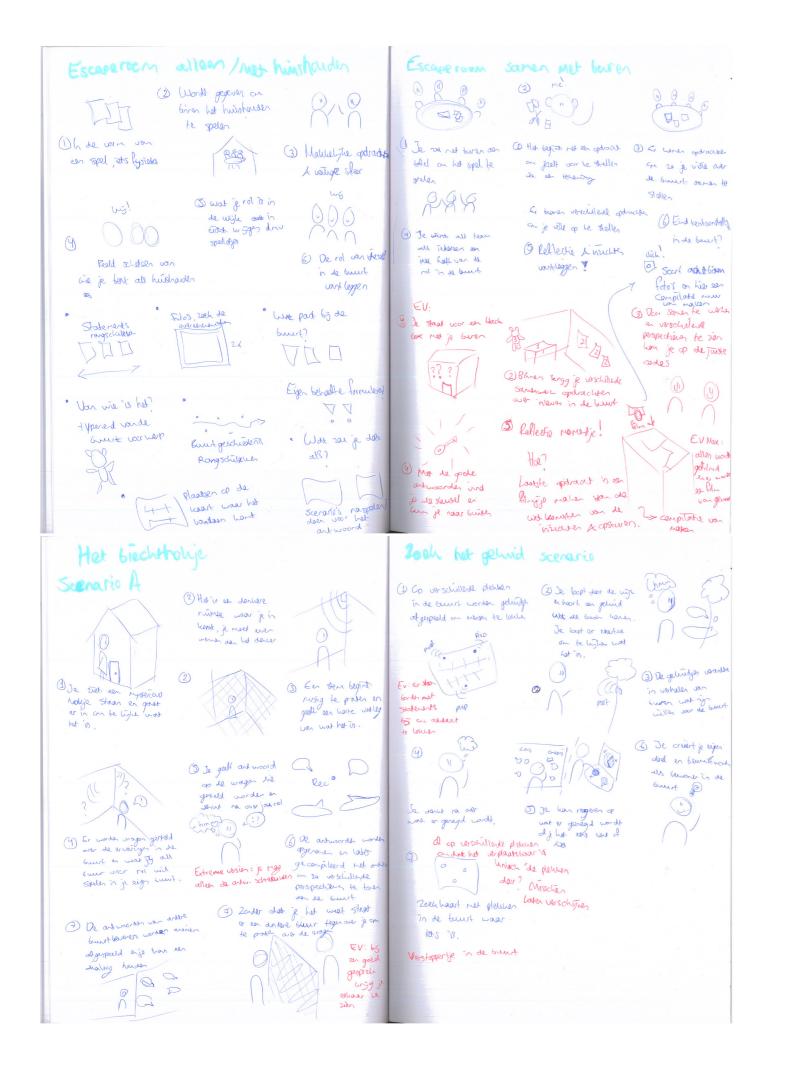
Appendix 12 - Brainstorm session with fellow students





Appendix 13 - Scenario sketches





Burentollen E TO E (3) Bordspel buenrollen. lester an begint just een eigner rol (we rol?) (4) & 2d con rover in hat spel, wissel van ted or stee is but perspect of van se ander. 1 Vocral lergg je een je je oan noet harden. (4) Keep wohn vol hat barke 65 jon tu po re trog waaran Oh de voin van ear spel tots fyrials Reald whatsen wan wie je bort als huidharden

· Van vie is het

+ ypered varde

Great var work

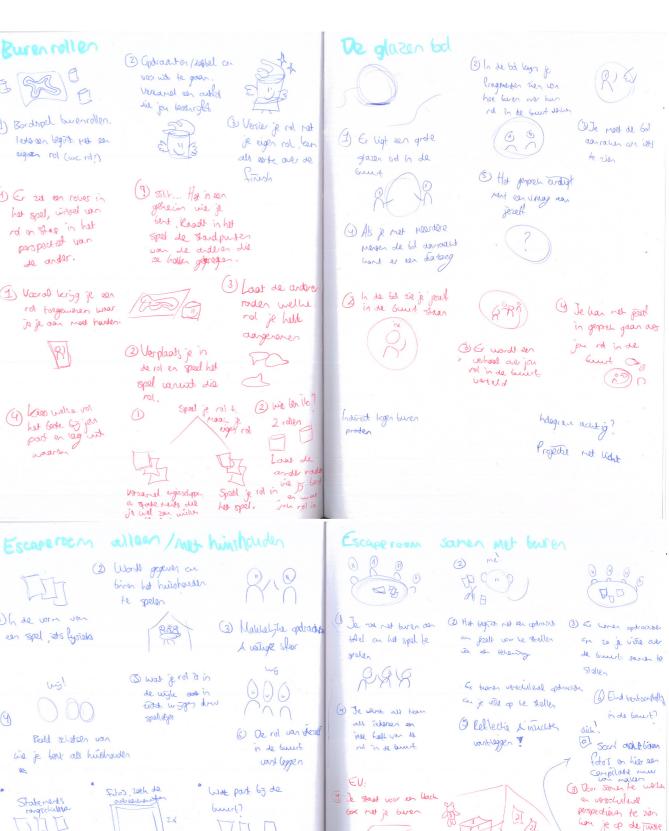
But geschieden

Rangsdulkuer

planten a de

\ was was het

tonder hant



Eigen behadte formula

· Wat rai je dal

VV

(2) Blinen kryg je vorschihede

Savenue apprachter

over never in de better

Lastife advant is ear

Horizo maken you de

us compen van de

inziewes & asturen.

EV Max:

> aller words

getilnd ere worth

van germ

5 Reflectio nonetje!

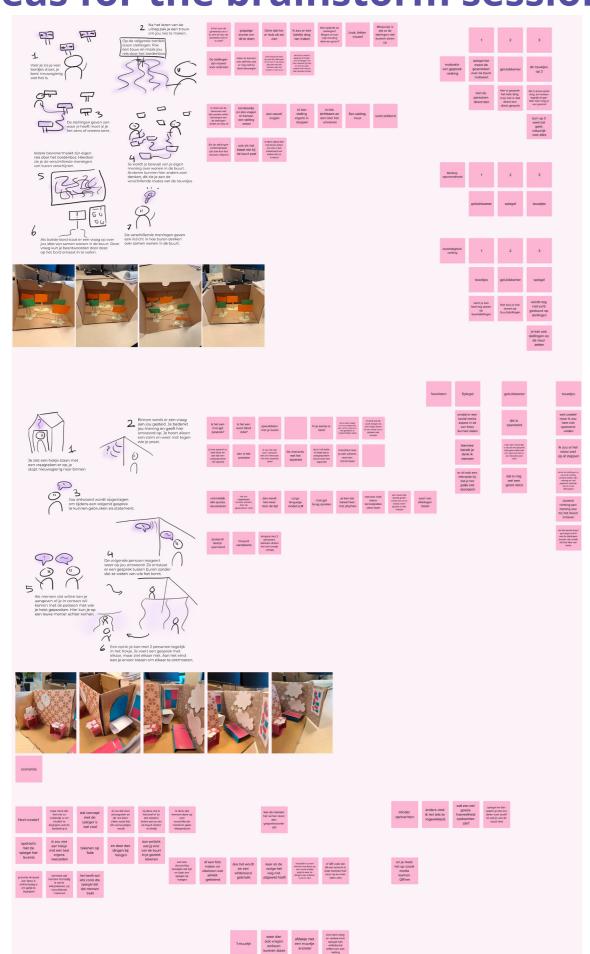
Mes de roede

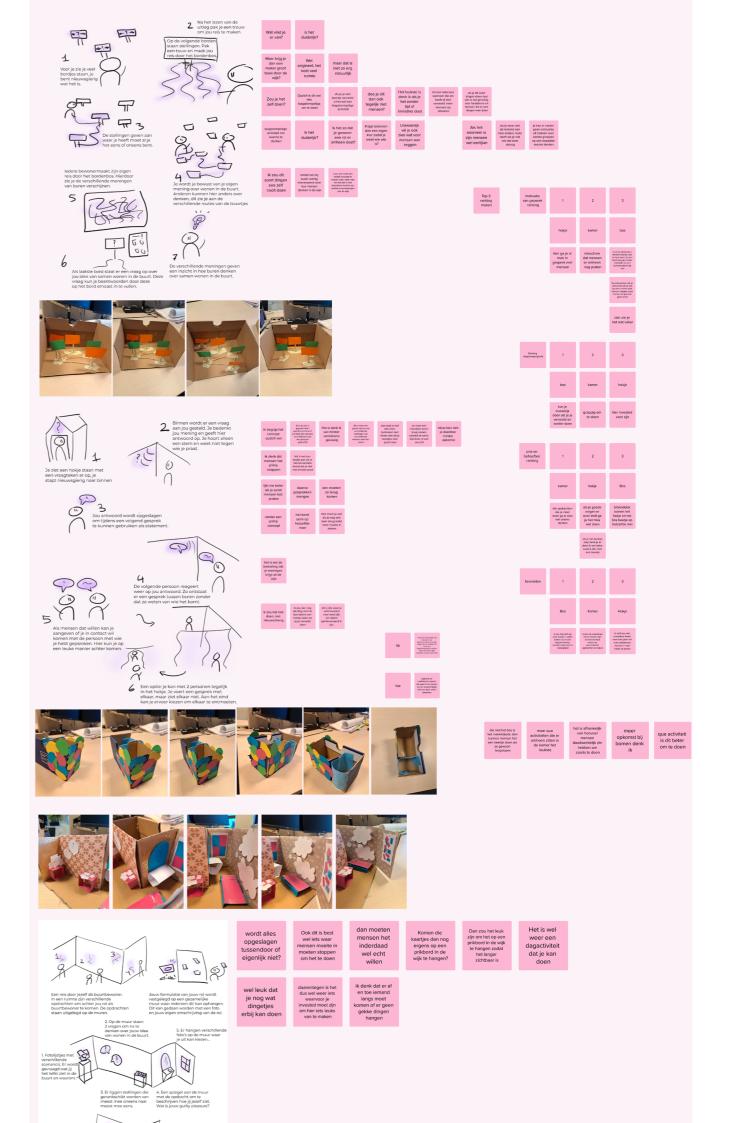
artwoorder und

p de stevel en

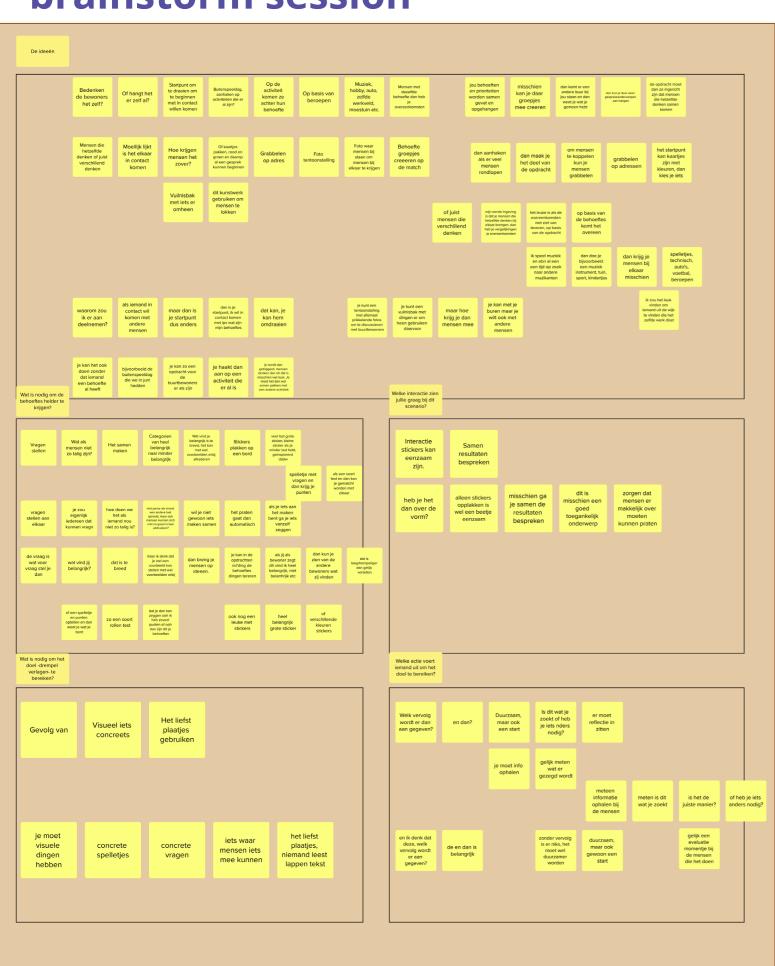
in il near builty

Appendix 14 - Analysis with non students about the three scenario ideas for the brainstorm session

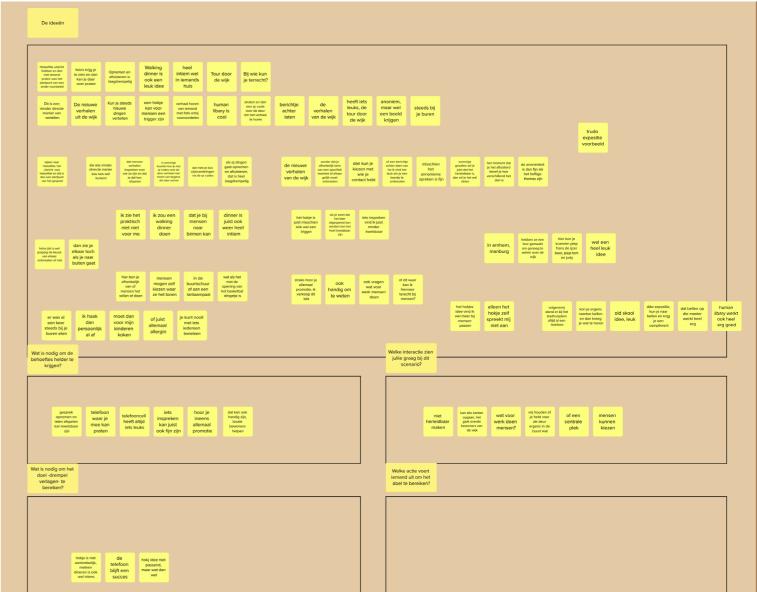




Appendix 15 - Results of the brainstorm session

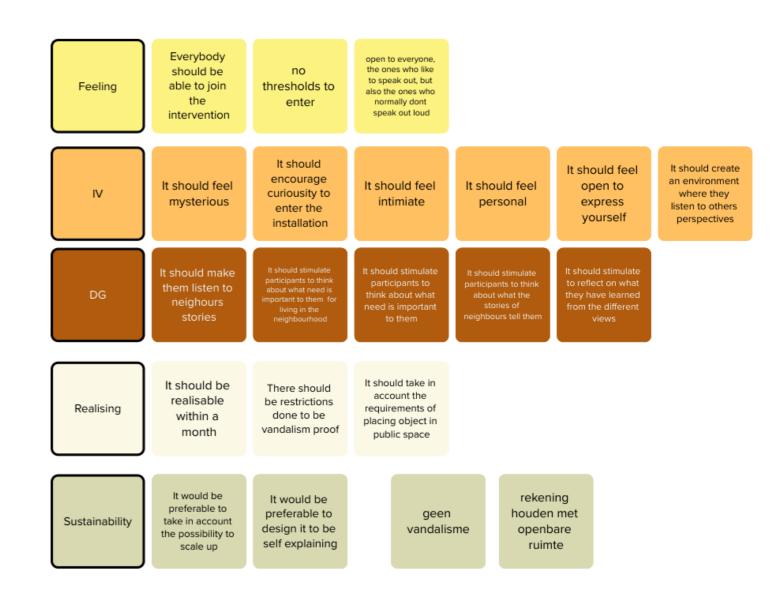






Boehoeften De opdracht De opd

Appendix 16 - List of requirements

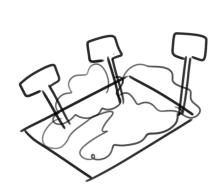


Aesthetic, appearance and finish	Materials	Product of lifespan	Standards, rules and regulations	Ergonomics	Testing
he appearances of the concept should be attractable to	The concept is made made from sustainable sources if possible	The concept will last at least half a	will not harm	The concept should be able to stand in for a 2m	The concept is tested in context
The appearance should be	If possible vintage items are	year	and mentally	The instructions given should be readable for a	
relatable to	used The qotes			1,50m person The instuctions	
appearance should	laserprinted on wood			should be able to hear clearly	
Societal and political implications	Product liability	Installation and initiation of use	Reuse and recycling	Safety	
The concept encourages understanding of other neighbours needs	The concept is an innovative installation	The concept should be easy to storage	Parts of the concept should be easily seperated	The concept should be safe to use	
The concept encourages respect of each others	The concept can be used as inspiration for other social	The concept should be fit into a student room		The concept should be	
The concept encourage opening up to	design projects			safe to talk about	
other neighbours The concept stimulates to				should not harm mentally	
think about their own needs				The use of the product leaves no permanent injury	There are no sharp edges, all corners are rounded
The concept stimulates					

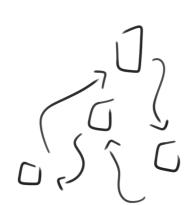
stimulates about their position in the neighbourhood

Appendix 17 - Brainstorm about different elements of Babbeloord

How to keep the stories alive?



Verhalen worden verzameld in de perkjes op de stoep



Hokie wisselt van plek in de buurt



OR codes voor de deuren van wie het verhaal is

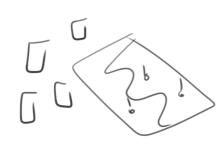




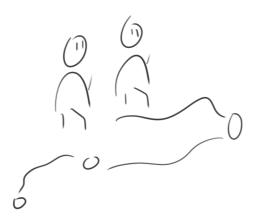




Er wordt een boek gemaakt van alle verhalen



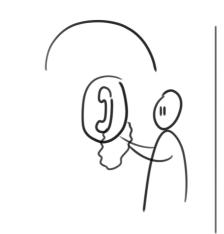
Er wordt een spel gemaakt met de input van de verhalen



Een wandeling langs verschillende verhalen

What happens on the phone?

When you want to express yourself



Vraag erboven waardoor je de tefefoon pakt



Vraag door de telefoon waar je antwoord op kan geven



Bericht dat je een voicemail in kan spreken



Er wordt een gesprek aangegaan over behoeftes door de telefoon



Audio uitleg door de telefoon hoe het werkt



Uitleg door het hele hokje, iets aanraken om uitleg te beginnen



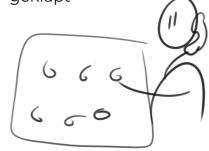
Visuele uitleg in het hokje



Keuzemenu of je wilt luisteren of inspreken. Wanneer zelf praten wordt er eerst voor je geklapt



Zelf aangeven hoe lang je verhaal bewaard blijft



Er kunnen 13 verhalen opgeslagen worden, daarna vervangt de nieuwste het oudste

What happens on the phone?

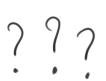
When you want to listen



Fluister stem zodat je beter gaat luisteren, dan verhaal van een buur



Knop in drukken welk verhaal je wilt horen



Eindigen met een vraag



Eindigen met een vraag voor het gordijn



Lampen dimmen zachtjes

Leaving



Eindigen met een vraag boven de deur

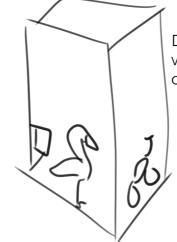


Eindigen met een vraag boven de deur en een spiegel, wat doet dit met jou?



Er wordt geklapt als je weggaat Er gebeurt niks bijzonders

De uitstraling



De 13 behoeften worden afgebeeld op de buitenkant



Dansende mensen met discobol binnen en je hoort muziek



Klein gaatje door gordijnen waar je naar binnen kan kijken



Deur staat voor je open met VIP



Verschillende kleuren licht komt uit het hokje



Je kan alleen door

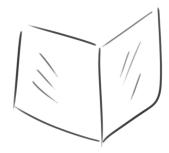
In de vorm van een cadeau wat je open wil maken



Er is een bos en hangt mist om heen maar je



Binnen hoor je geluiden dus je wordt uitgenodigd om af te luisteren



Spiegelwand omdat het om jouw behoeften gaat, ziet in het midden iets staan maar deel ook over buurt

Binnenkomst

In het donker binnen komen, lichtknopje indrukken om te zien wat er is.



Bij binnnkomst zjin de 13 behoeften aan het zingen, als jij binnenstapt moet jij hun liedje afmaken



Uitleg door het hele hokje, iets aanraken om uitleg te beginnen



How to keep it interesting?



zodat je eerst niet ziet

wat er binnen gebeurt

Er hangt rook binnen



Een vraag over wat zijn jouw behoeften wordt belicht, door de knop in te drukken wordt alles belicht







Elke maand een nieuw thema, gekozen door bewoners



Foto van de maand wordt tentoongesteld



Je moet een gordijn door

voordat je ziet wat er

binnn in het hokje is

Je ziet een fotolijst met de telefoon, dit is wat je naar de buitenwereld verteld of luisterd

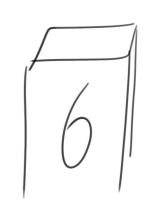


Per maand wordt 1 verhaal verbeeld

Bord waarop nieuwe verhalen aangegeven worden



Hokje wisselt van plek in de buurt



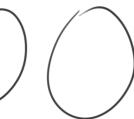
Aantal verhalen in het hokje op de buitenkant



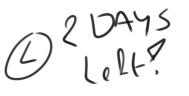
Een spiegel met daarboven

een vraag over wat jouw

behoeften zijn



2 bubbels, 1 over je eigen behoeften en 1 voor de anderern uit de buurt

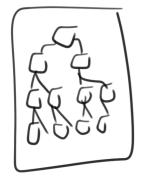


Tijdslimiet aankondigen



Met een meter laten zien hoe vol verhalen

Aankondigen ontwerp



Keuze diagram om op te hypen





Ansichtkaartje met uitnodiging



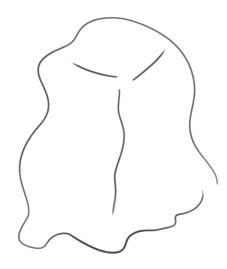
Quote door de bus gooien, review komt dat zien



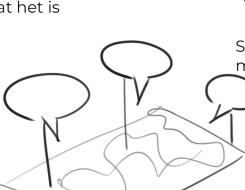
Geluid afspelen op de plek waar het gaat komen



Steeds grotere stappen om aan te kondigen, beginnen met voetstappen, lichtdraden, onder contructie borden en dan echte installatie



Al een week als voorwerp onder een doek in de wijk, zonder dat ze weten wat het is



Spraakwolkies met statements verspreid door de buurt

Coming soon sticker op de grond







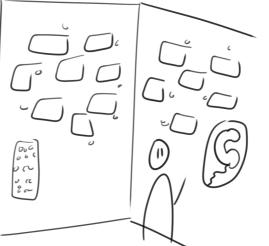
Speurtocht naar de installtie met hints verstopt in de wijk





Alvast een microfoon neerleggen op de plek van de installatie

Entering and formulating your needs



13 fundamental needs hangen door het hokje, met sticker aangeven welke jouw nummer 1 en 13 is



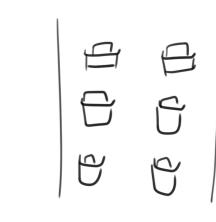
Alleen nummer 1 en 13 ophangen, verzamelng komt er te hangen



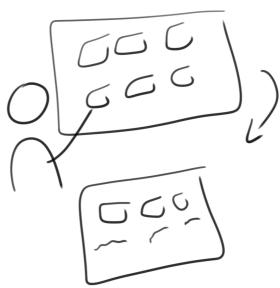
Er hangen vragen om overna te denken



Op een magneetbord rangschikken wat jouw volgorde is in de needs



Kaartje kiezen om uit te delen aan iemand of wens achter te laten



Scherm en als je op de behoefte klikt dan krijg je 3 voorbeelden te zien



Elke behoefte heeft een eigen kleur, met jouw voorkeur mag je een tekeningetje maken op een canvas. Dit wordt het kunstwerk van de behoeften van de wijk

Appendix 18 - Prototypes Babbeloord

test if the idea would appeal to residents the phone interaction and how to improve the scenario. Therefore different prototypes were made to be Goals: tested. Since this concept is designed for 1. Finding out which explanation is more Woonontwikkeling Vredeoord it is better to test in the context as much as possible. A plan for testing different aspects of the concept is made to create an overview 3. Finding out if the text is clear to of the tests that should be done in the neighbourhood and the tests that could be done with other participants than residents too. In figure X an overview of the tests is shown.

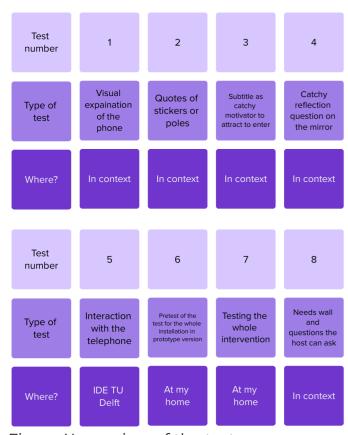


Figure X overview of the tests

The tests set up, their used prototypes and results are shown in the same way. First the goal of the test is defined, then it is described how it will be conducted and measured. The results are summarised in a visual and the main insights and to do's are shown and improvements in the design are made. The analysis of the tests can be found in appendix X.

Now the scenario is designed it is time to **Test 1 - Testing the visual explanation of**

- clear.
- 2. Finding out if the text is needed to understand the explanation.
- residents.

How is it conducted?

Participants are recruited on the streets in the neighbourhood, they are asked in person if they have time for the test on that specific moment.

2 versions of the visual explanation are drawn. Both versions have a version with and without text. First one version of the explanation is shown without text and asked if they would understand how the phone works when seeing the visual. Then that same scenario will be shown with text and asked if they understand the explanation. When 1 scenario is completed the process is repeated with the other scenario. Between participants the first seen scenario is switched. Figure X on the next page shows the two versions of the explanation.

How is it measured?

Questions will be asked to find out if they understand the scenario and what could be improved. Their preferences will be asked too.

Results

The test is conducted with 8 participants. but 1 participant did not have Dutch as English as their native language and could not/wanted not express himself to me. The insights of this test are summarised in figure X. In appendix X the results and analysis can be found in more detail.

Interaction of the phone Interaction of the phone 00 00 00 00 0000 0000 0000 0000 Pak de telefoon voor Kies 2 hehoeftekaarten Deel jouw behoefter die bij jou passen met jouw buren en met jouw buren en luister naar die van he die bij jou passer luister naar die van he \bigcirc \Diamond 1 dag 1 2 3 2 1 week 3 1 maand Laat weten hoe lang jouw verhaal bewaard Toets het spraakwolkje om Spreek jouw verhaal in iouw verhaal in te spreken mag blijven door op die toets te drukker 123 456 Toets 1 voor 789 Luisteren verhaa Volgenc verhaal Vorig $\langle |$ Toets 6 voor Toets 4 voor Luisteren volgend

Figure X 2 versions of the explanation, on the left version 1, on the right version 2

Toets het oortje om de

erhalen van jouw buren.

erhaal bure

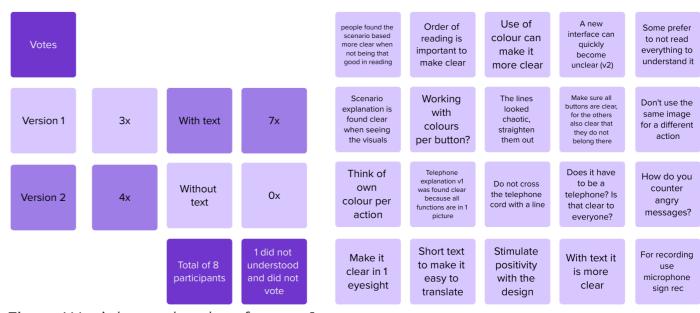


Figure X Insights and to dos after test 1

Improvement based on this test

verhaal burer

Based on the results of the test the visual explanation is improved and shown in figure X on the next page. It is chosen to go for an scenario based explanation, since the ones who understood the explanation

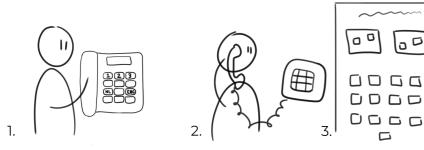
with the telephone also understood the scenario based explanation, but vise versa it was not always the case. The tips and insights for the visual explanation of the interaction with the phone are implemented in this version too.

Luister naar de verhaler

Beluister meer verhalen

door op die toetsen

Babbeloord



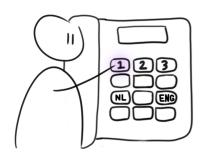
Pak de telefoon voor een gesproken uitleg

Je krijgt uitleg hoe het werkt

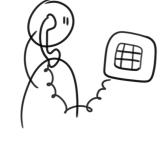
Kies 2 kaarten die bij jou passen en hang op

00

Deel jouw verhaal met jouw buren en luister naar die van hen



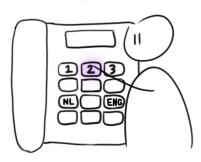
Toets I voor een uitleg



Luister naar de uitleg



Leg de telefoon terug en ga naar de kaartjes links van je



Toets 2 om jouw verhaal in te spreken



Spreek jouw verhaal in



Luister naar het verhaal. Toets nog een keer 3 als je nog een verhaal wilt horen

Toets 3 voor het luisteren

Luister naar het verhaal. Toets 3 als je nog een verhaal wilt luisteren



kijk nog eens naar de vraag op de spiegel

Test 2 - Quotes of stickers or poles

Goals:

- 1. Will it be seen?
- 2. Which version will be seen more?
- 3. Which version will be read more?

How is it conducted?

At the entrance of the medical centre in the neighbourhood first the poles with quotes are placed around the entrance. 13 visitors walking by are observed. Then the process will be repeated for the stickers, which are placed on approximately the same place. See figure X for the setup.

How is it measured?

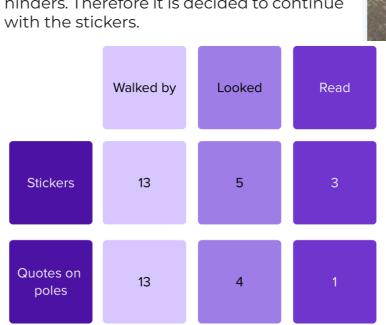
It will be counted how many times there is looked and how many times it is read. This is done by observation.

Results

The results are shown in figure X. Figure X shows insights and to dos.

Improvement based on this test

The stickers are looked at more, and also read more when seen. Stickers are also more vandalism proof and can become bigger without causing dangerous situations or hinders. Therefore it is decided to continue















Lot of people just walked by When looking at the stickers they also stopped to read

With the quotes on poles most just walked by

Stickers

are more

vandalism

proof

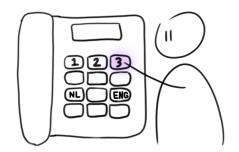
More people have read the stickers

More people have seen the stickers too

Stickers can be put on the floor without hindering the public space

Stickers can be made really big to stand out more

Figure X Insights and to dos



naar een verhaal van je buren

Figure X First improvement on the visual instructions





Leg de telefoon terug en

Test 3 - Subtitle as catchy motivator to Test 4 - Catchy reflection question on attract to enter

Goals:

- 1. Find out which sentence is found most 1. Find out which sentence is found most catchy.
- 2. Test if it works as catchy motivator.

How is it conducted?

Participants are recruited on the streets in the neighbourhood, they are asked in person if they have time for the test on that person if they have time for the test on that specific moment.

4 versions of sentences are shown on a paper.

How is it measured?

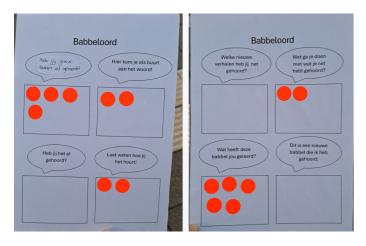
Participants have to put a sticker at their favourite sentence. By counting the stickers the favourite sentence can be determined. The participants are interviewed about would attract them.

Results

The filled in cardboard with stickers is shown in figure X. The sentence with 50% of the votes (4/8) is: Babbeloord - Heb iii jouw buren al gehoord?

Improvement based on this test

The participants who chose this one explained that this is explains the idea the most. Therefore this sentence is chosen.



the mirror

Goals:

- catchy to think about what they learned.
- 2. Test if it works to reflect.

How is it conducted?

Participants are recruited on the streets in the neighbourhood, they are asked in specific moment.

The name Babbeloord is given and the The name Babbeloord is given and the 4 versions of sentences are shown on a

How is it measured?

Participants have to put a sticker at their favourite sentence. By counting the stickers the favourite sentence can be determined. The participants are interviewed about why they choose the sentence and if it why they choose the sentence and if it would attract them.

Results

The filled in cardboard with stickers is shown in figure X. Around 70% (5/7) of the votes went to the sentence Babbeloord -Wat heeft deze babbel jouw geleerd?

Improvement based on this test

Participants choose this sentence because this sounded the least forcing to do something, but it still stimulated until action. The action they can decide themselves (think, reflect, take action. etc.). The arguments given convinced to go for this sentence, even though the sentence is unsatisfying unrhyming.



Figure X Results test 3 and 4

Test 5 - Interaction with the telephone

Goals:

- 1. Is the interaction with the phone clear?
- 2. Do the buttons feel logical?
- 3. Do they know which buttons to press?
- 4. Is the explanation not long-winded?
- 5. Is the explanation on paper clear?
- 6. Can it be done without paper explanation?.

How is it conducted?

The participants receive an explanation of the idea of Babbeloord and are given an assignment to conduct. The assignment is as follows:

telephone. You listen to the explanation in Dutch. The story you are going to record is about what you ate last night. After listening, you listen to 1 story."

The test will be conducted in two different ways. Two participants will test with the visual explanation, two participants will test without the visual explanation. The interaction with the phones will be done via the Wizard of Ozz method (DDG.) where the phone does not work, but it is staged and I will press the sound effect fitting to the buttons the participants press.

How is it measured?

During the test the participant will be observed and notes will be taken of the actions the participant conducts. Afterwards the participants are asked to fill in a questionnaire about the test and interviewed for extra insights about their "You enter the phonecell and see a experience with the interaction of the phone. An video will be made of them to, to evaluate afterwards to overcome things are missed.

> Figure X shows the measurement tools; the observation sheet for myself during the test, the questionnaire for participants and the test setup.

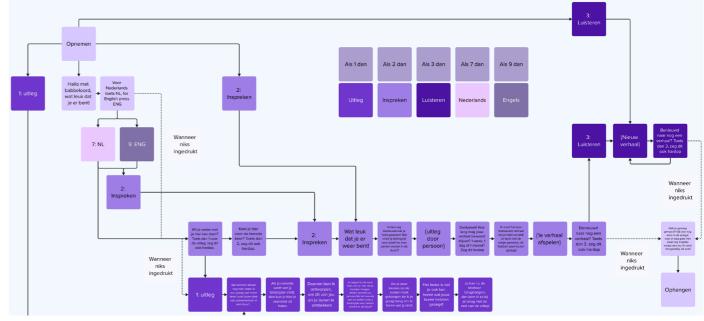


Figure X the observation sheet for myself during the test

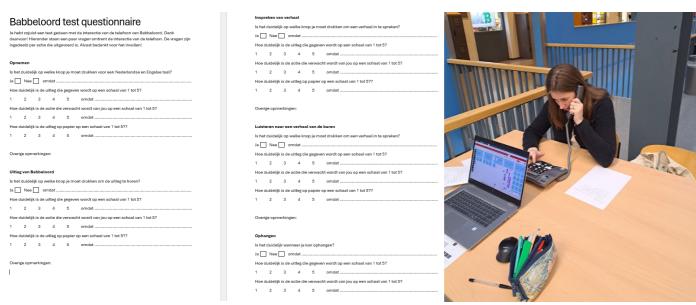


Figure X the questionnaire for participants and the test setup

Results

4 participants conducted the test. In By multiple participants the valid figure X the results of the questionnaire and insights and to do's are summarized. With the visual explanation the listening to neighbours and telling their story scored higher than without the visual explanation. The introduction and explanation before hanging up and hanging up after hearing the story scored higher without the explanation than with the explanation.

Improvement based on this test

argument was given that when listening and reading the same time both things are not understood. Therefore it is decided that the next test will be done without the visual explanation and see if this is also understandable for them. I more test will be conducted with this interaction of the phone and afterwards the interaction of the phone will be improved.



Figure X Results of the questionnaire

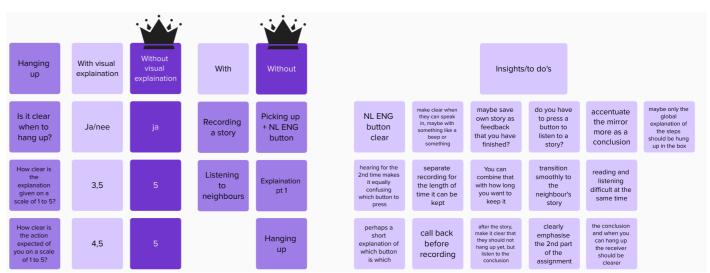


Figure X Results of the questionnaire

Test 6 - Pretest of the test for the whole installation in prototype version

Goals:

- 1. Test if the installation is understandable without the visual explanation.
- 2. Test if the wall with needs is understandable with only an explaining sentence on it.
- 3. Testiftheywalkthroughtheintervention as intended.

How is it conducted?

The participant is asked to enter the installation without extra information about the idea behind it. The phone rings and the test starts. I will conduct both Wizard of Ozz and taking notes and photos during the test.



Figure X Set up test 6

How is it measured?

During the test the participant will be observed in his actions. Notes will be taken. After the test an interview will be held to ask to the experiences and potential tips. In figure X the set up is shown.

Results

The insights are shown in figure X on the next page.

Improvement based on this test

Based on this test and the previous test the text of the explanation is adapted. Figure X shows the renewed spoken text diagram which will be tested in the next test.

It was asked what the participant learned from the intervention and since the explanation fits the design goal it is decided to ask this in the following test too.



Figure X Insights test 6

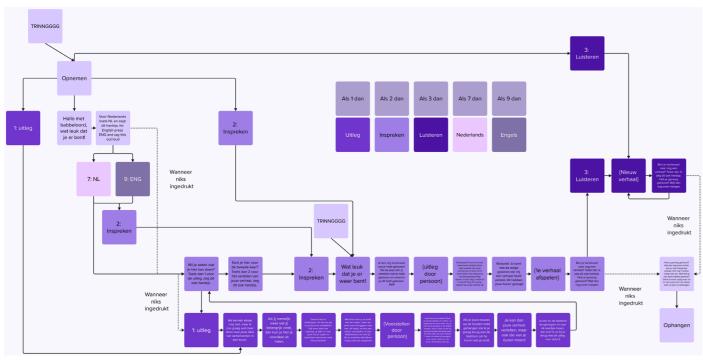


Figure X Improved speech diagram for test 7

Test 7 - Testing the whole intervention

Goals:

- 1. Test if the installation is understandable without the visual explanation.
- 2. Test if the wall with needs is understandable with only an explaining sentence on it.
- 3. Testiftheywalkthroughtheintervention as intended.
- 4. Test what they have learned from the intervention and if it fits the design goal.

How is it conducted?

The participant is asked to enter the installation without extra information about the idea behind it. The phone rings and the test starts. I will conduct both Wizard of Ozz and taking notes and photos during the test. The setup of the test is the same as test 6.

How is it measured?

During the test the participant will be observed in his actions. Notes will be taken. After the test an interview will be held to ask to their experiences and potential tips. A questionnaire is created to evaluate each step afterwards by the participants. Here it is also asked what they learned from the intervention. The questionnaire is shown in figure X.

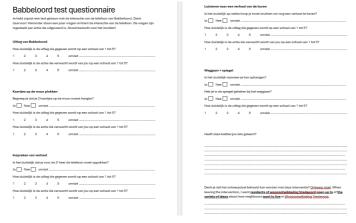


Figure X Questionnaire test 7

Results

This test gave a lot of insights in the interaction of the whole intervention. Overall the participants understood what they needed to do. Afterwards they answered the question what they thought of the experience with: "Quite funny" and "It was fun to do". There were some improvements in the interaction that can be done. These insights are placed in the speech diagram for an overview what to improve. The insights are shown in figure X

Improvement based on this test

Based on this test the text of the spoken explanation is improved again. This version is extended with actions for a host before and after the participants enters the installation. This will be elaborated on more in the test plan for Babbeloord in the neighbourhood. Figure X shows the renewed spoken text diagram which will be tested in the next test in the neighborhood.

This test is conducted with a cardboard version, but for the test in context it is better to make a version which is water proof in case the tent will leak by rain. Based on this test and the following test a new version for inside the tent will be made.

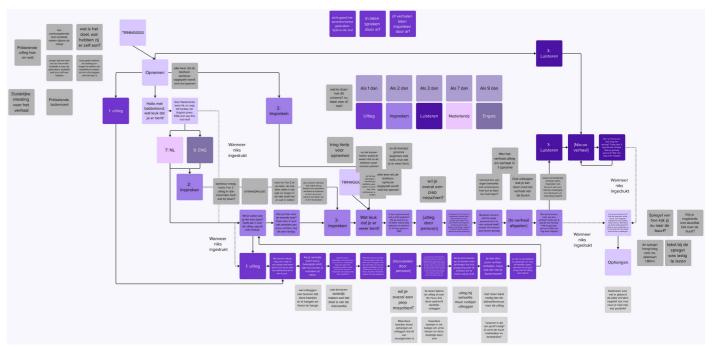
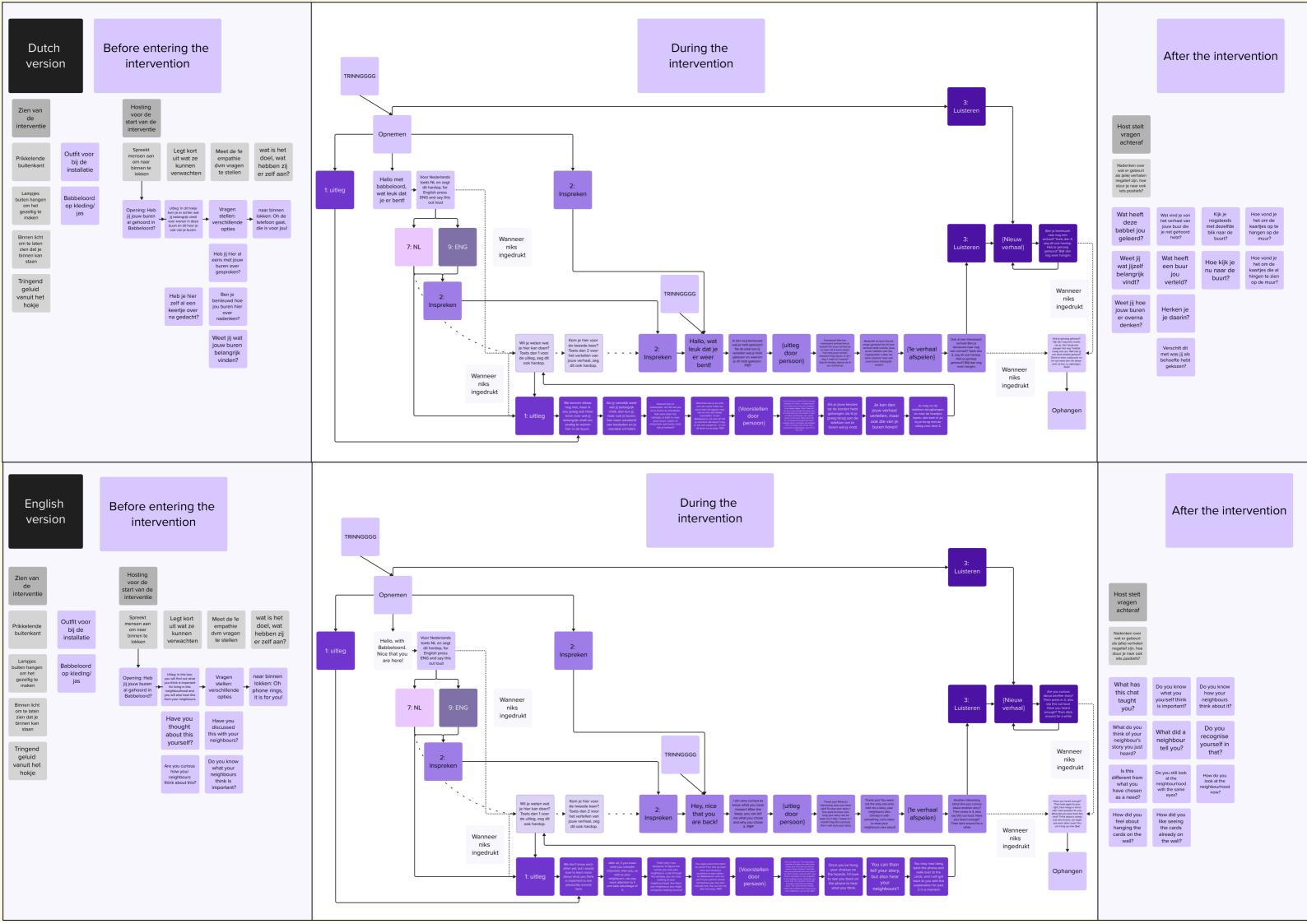


Figure X Insights of test 7



Test 8 - Testing the needs wall and questions the host can ask before and after the installation

Goals:

- 1. Testing if the questions for the need wall are clear
- 2. Testing whether people can tell a story
- 3. Retrieving stories for inspiration
- 4. Testing whether the measuring empathy questions works
- 5. Closing empathy questions testing
- 6. Testing opening empathy questions

How is it conducted?

Participants are recruited on the streets in the neighbourhood, they are asked in person if they have time for the test on that specific moment. Since there was rain predicted for that day the prototype is made from waterproof materials such as a hard plastic board and laminated cards. First Babbeloord will be explained, what

can you do with it and then asking the questions if they are curious about their neighbours answers/if they have talked about tis with their neighbours already. Then ask them to fill in the board and listen good to their answers for inspiration. Afterwards questions are asked to find out if they understand the exercise, how the interaction was and what they have learned from seeing the other cards on the board too.

How is it measured?

The participants will be interviewed before and after filling in the needs wall. With the tips in mind of chapter 2.4 empathy is measured by interviews.

The interaction of putting cards on the wall is observed and asked afterwards and the stories they tell are memorized and written down afterwards. If a participant tells a really nice story it is asked if they can repeat their story to record is and use it later. They have to give permission for that.



Figure X Prototype test 8

Results

As said earlier it was expected to rain that day. Sadly the soft rain turned out in continuous raining and therefore there were no participants. Also the timing, I day before the christmas break was not perfect, because when it was dry in the evening all the christmas dinners at school started so the parents had other things on their mind. This is something to take into account for another project, testing a week before the christmas break is a bad timing because everybody is busy and has other things on their mind.

All the 7 tests gave useful insights to improve the installation and thereby the interaction of the experience. In the next chapter whole idea around the concept of Babbeloord is explained based on the new insights.

Appendix 19 - Test plan Babbeloord

Testplan

test plan has been set up. This test plan is divided into three phases; before the installation, during the intervention and after the intervention. The test plan is setup for 2 people, since there were too much tasks for myself alone.

The test plan for before the installation To test Babbeloord in a structured way a contains building up, taking the role of the host at the beginning and taking photos/ videos of the interaction with the host and installation. Person 1 (myself) takes the role as the host to motivate participants to enter, explain the idea of Babbeloord and measures the empathy level towards neighbours beforehand. Person two takes the role of the photographer/filmer. The more specific tasks are explained in figure

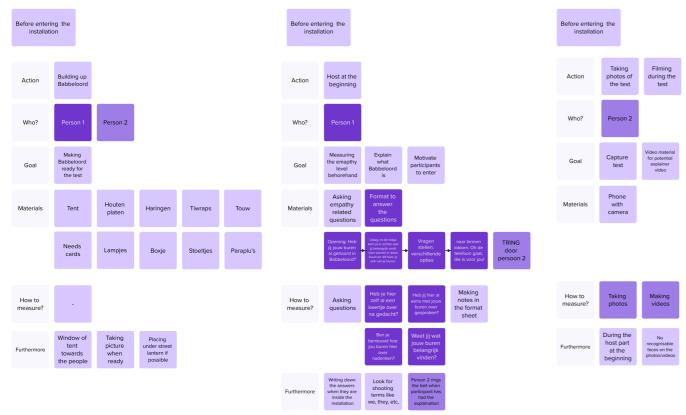


Figure X Testplan before the participants enter the intervention

The second part starts when the participant enters the installation. Person 2 is responsible for the interaction with the phone. The Wizard of Ozz method will be used to let the phone work and interact with the participant. The first person will be observing and capturing whether the different parts are clear. This person also records the stories told by the participants. The more specific tasks are explained in figure X.

The last part consist of the first person taking the role of the host after the experience. Questions to measure the empathy after the experience are asked, but also about what they have learnt from it and whether they liked the experience or not. The more specific tasks are explained in figure X.

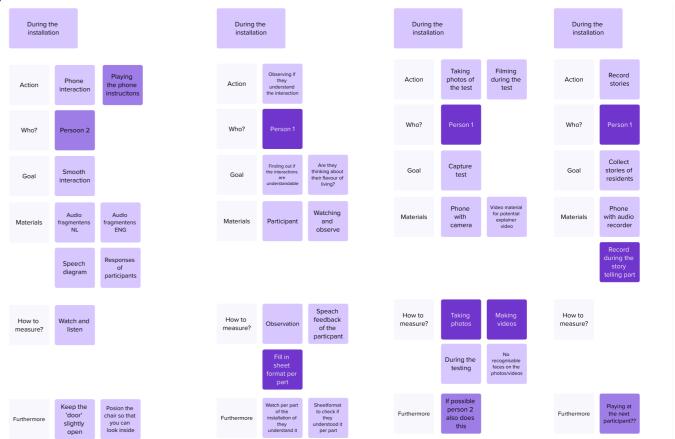


Figure X Testplan during the participants enter the intervention



Figure X Testplan after the participants enter the intervention

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