APPENDICES

Master thesis

Design for **BEHAVIOUR CHANGE OF CONSUMERS** around FURNITURE REPAIR AND UPGRADING

Laura Hurenkamp



APPENDICES

Project brief

- A Generative sessions materials
- **B** Brainstorm sessions plan
- C User test detalls
- Profiles Motivaction
- E Overview user journeys, result from generative sessions
- F Expert interviews, statements about consumer behaviour
- G COM-B with all drivers and barriers
- H Initiatives overview
- Indirect stakeholders
- +/- 50 ideas
- K C-Box
- 11 ideas and their Harris profiles
- M First prototypes recipe cards
- N Final designs DIY cards
- Final desing exhibition
- P Overview of products in store shelf





IDE Master Graduation

Project team, Procedural checks and personal Project brief

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

- The student defines the team, what he/she is going to do/deliver and how that will come about.
- SSC E&SA (Shared Service Center, Education & Student Affairs) reports on the student's registration and study progress.
- IDE's Board of Examiners confirms if the student is allowed to start the Graduation Project.

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STUDENT DATA & MASTER PROGRAMME

Save this form according the format "IDE Master Graduation Project Brief_familyname_firstname_studentnumber_dd-mm-yyyy". Complete all blue parts of the form and include the approved Project Brief in your Graduation Report as Appendix 1!

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family name	Hurenkamp		Your master program	me (only sel	ect the options that apply to you):
initials	given name Laura		IDE master(s):	() IPD	Dfl SPD
student number			2 nd non-IDE master:		
street & no.		i	ndividual programme:		(give date of approval)
zipcode & city			honours programme:	Honou	irs Programme Master
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phone				Tech.	in Sustainable Design
email				Entrep	eneurship
	ERVISORY TEAM ** the required data for the supervisory team r	members. Please cl	neck the instructions on	the right!	
** chair ** mentor		dept. / section:dept. / section:	DOS / MCR SDE / CPD	_ 0	Chair should request the IDE Board of Examiners for approval of a non-IDE mentor, including a motivation letter and c.v
2 nd mentor	Daniëlle Broeze organisation: Ministerie van Infrastruc city: Den Haag			_ 0	Second mentor only applies in case the assignment is hosted by an external organisation.
comments (optional)				0	Ensure a heterogeneous team. In case you wish to include two team members from the same

section, please explain why.



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To be filled in by the chair of the supervisory team.

chair <u>Ruth Mugge</u>	date	<u>-</u>	signature	
CHECK STUDY PROGRESS To be filled in by the SSC E&SA (Shared Service The study progress will be checked for a 2nd ti			ter approval of the p	project brief by the Chair.
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FORMAL APPROVAL GRADUATION PROJ To be filled in by the Board of Examiners of IDE Next, please assess, (dis)approve and sign this	TU Delft. Please chec Project Brief, by usin	ng the criteria below.		\sim
 Does the project fit within the (MSc)-prograthe student (taking into account, if describe activities done next to the obligatory MSc courses)? Is the level of the project challenging enou MSc IDE graduating student? Is the project expected to be doable within working days/20 weeks? 	ed, the specific Production of the specific Prod	cedure:	APPROVED	NOT APPROVED NOT APPROVED
 Does the composition of the supervisory te comply with the regulations and fit the ass 	ignment? \			



Design for sustaina	ble consumer beh	aviour in furniture re	pair	project title
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	renkamp	Student numb		

Title of Project Design for sustainable consumer behaviour in furniture repair

TUDelft

introduction (continued): space for images



image / figure 1: <u>'Grofvuil' furniture found in Amsterdam (Suyderhoud, 2022)</u>

TO PLACE YOUR IMAGE IN THIS AREA:

- SAVE THIS DOCUMENT TO YOUR COMPUTER AND OPEN IT IN ADOBE READER
- CLICK AREA TO PLACE IMAGE / FIGURE

PLEASE NOTE:

- IMAGE WILL SCALE TO FIT AUTOMATICALLY
- NATIVE IMAGE RATIO IS 16:10
- IF YOU EXPERIENCE PROBLEMS IN UPLOADING, COVERT IMAGE TO PDF AND TRY AGAIN

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Initials & Name Hurenkamp	Student number	
Title of Project Design for sustainable consumer behav	viour in furniture repair	



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.

Current climate problems and scarcity of materials call for a transition to circular economy. This project focusses on the furniture industry in which great impact can be made by saving materials, energy and emissions. Extending the lifespan of existing furniture can achieve most impact (Tauw, 2022).

To achieve the goal of a 100% circular economy by 2050, the Dutch government advises to repair or refurbish 100% of the furniture items that are repairable (Rijksoverheid, 2022). It should be further analysed if repair and refurbishment contribute to a longer product lifetime in all cases. Factors like the demand for repaired and refurbished products influences the impact that can be made. Alternative strategies like upgrading or repurposing of furniture might be more effective in some cases. Despite the uncertain mix of strategies, scaling up repair will be necessary and requires changes and efforts from all stakeholders in the system: consumers, companies and the government.

It is crucial that consumers take steps to repair their furniture (or have it repaired). Currently, consumers are still experiencing barriers as many repairable furniture items are being disposed. Examples of barriers found in literature are high repair prices, high effort, insecurity, unavailable tools and trend sensitiveness (Tauw, 2022; Forrest, 2017; Ackermann et al., 2018). Consumers need support to perform repair behaviour. Businesses and the government can use design to realise new business models and services to create user friendly repair opportunities and help overcome barriers. Repairers, manufacturers, retailers and other furniture parties can all play a role in the new circular system.

In my project, I will focus on the barriers and needs of consumers around furniture repair and combine these insights with knowledge and possibilities from the industry and government. The goal of the project is to come up with a design intervention that changes consumer behaviour around furniture repair to prolong product lifetime.

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.

In this graduation project, I will create a design intervention that changes consumer behaviour around furniture repair to prolong product lifespan. The intervention contributes to increasing consumers' willingness to repair furniture and helps consumers to turn their willingness into actions.

The ultimate goal of my design is to change consumer behaviour. When a piece of furniture is damaged, consumers will not throw it away but take steps to repair it themselves, and where not possible, have others repair it.

There already is literature on design strategies to stimulate product care, repair is a part of this (Ackermann et al., 2021). I will use this knowledge and apply it to the product category of furniture. With my research activities, I will find out which strategy will be effective for furniture repair. The solution direction thus depends on the research outcomes and therefore the options are still broad. My design could for example address: information provision, self-confidence, availability of tools, awareness, etc.

Despite the still unknown solution direction, my expectations are to design a service or campaign. It is important that my design connects to real-world practice. In this way, my design can bring value to parties in the furniture sector that are currently engaged in the circular transition. I do not focus on big manufacturers like lkea, but I focus on parties that can stimulate and enable consumers that already own a product to do repair activities. A service could be designed for an online repair platform, 2nd hand trade businesses such as Marktplaats or the thrift store. In the case of a campaign, I will look for a connection with a party that is working on campaigns, such as Milieu Centraal. Het Groene Brein would like to bring me in contact with these parties.

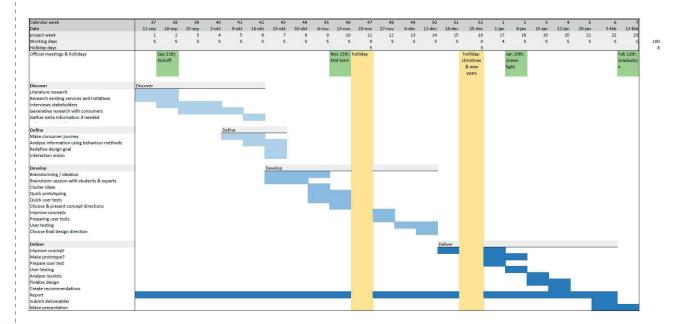
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Initials & Name	Hurenkamp	Student number	
Title of Project	Design for sustainable consumer	haviour in furniture repair	



PLANNING AND APPROACH **

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/or periods of not spending time on your graduation project, if any, for instance because of holidays or parallel activities.





My planning is divided into 4 phases, based on the double diamond.

In the discovery phase I will dive deeper into the broad context of furniture repair. By desk research and interviews with stakeholders, I will learn about the current repair system: the stakeholders, the repair options, what reparations involve, the role of DIY reparation, and more. Also, I am curious to research where most environmental impact can be reduced, maybe by focussing on a specific furniture type or target group. Lastly, it is important for me to research consumers' behaviour around furniture repair, and especially, what lies behind this behaviour. I will use literature and generative research.

In the define phase, I will analyse all findings. I will create a customer journey and identify barriers that hold consumers from repair. Also, I will find and review promising opportunities. This phase results in a redefined design goal.

I will start generating ideas in the development phase. These ideas will be developed into concepts which will be improved with the outcomes of user tests. This phase will end by choosing one design direction.

In the last phase, the deliver phase, I will detail the final concept, make a prototype and organise a user test. With the outcomes of this test, I will improve the design and write recommendations. Furthermore, I will finalise the report.

I planned to take one week off in November, one week during Christmas, and New Year's Day. In total I will use the 8 days off (besides the national holidays) as described in my contract with the Ministry of I&W.

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Title of Project	Design for sustainable consumer behaviour in furniture	repair	



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.

My motivation for this project comes from my personal interest in sustainability. I am very glad I chose IDE as a study, because design can trigger and facilitate sustainable behaviour in other people. Hereby, designers can contribute to sustainability challenges. I am excited that I my graduation topic is connected to sustainability by aiming for a circular furniture industry. Furniture repair brings great value in terms of material, energy and emission savings. I am happy to work on this challenge by doing research and design activities which I enjoy doing a lot!

Secondly, I am excited to gain knowledge about human behaviour in general and design for behaviour change. During my internship in the previous semester, and during some IDE courses, I was introduced to literature and models about human behaviour and strategies for behaviour change by design. This made me eager to try and apply the theory and knowledge on a project myself. In this graduation project, I would like to learn more about the current behaviour of consumers around furniture repair and how it can be influenced by design.

Furthermore, I am interested to gain insight in the Ministry of I&W and in the companies that I plan to contact during the project. I will try to find a job after my graduation and am curious to explore the possible work options for designers. Therefore, I would like to experience how it is to work for the government or furniture industry as a designer and see if it fits me.

I enjoy the focus on furniture as a product category because furniture design, craftsmanship and tangible materials such as wood and textiles have always captured my interest.

Lastly, this project gives me the opportunity to manage a large project myself. This brings many challenges, such as professional and effective communication with all stakeholders, time management, aligning feedback and requirements, asking for the right support, making decisions and much more. These are very valuable skills for me to practice.

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A GENERATIVE SESSIONS MATERIALS

Sensitize booklet

The sensitize booklet is presented below. The questions are in Dutch as the participants were all Dutch-speaking. Besides, a very minimal visual style was chosen, to invite the participants to make it their own.

1. Algemene informatie	
Leeftijd:	
Wat is het hoogste opleidingsniveau dat je hebt afgemaakt?	
(geen, basisschool, middelbaar onderwijs, MBO, HBO, WO (bachelor / master)	
In welke plaats woon je? En in welke buurt?	
Met wie woon je (als je met anderen woont) en hoe omschrijf je jullie relatie?	
Hoe lang woon je hier al?	2. Meubels in jouw huis
Hoe ziet je huis er uit? Kun je een kleine tekening maken of het omschrijven? (Je kunt denken aan: is het een rijtjeshuis, appartement, vrijstaand, is er een tuin, balkon, garage, hoeveel kamers, verdiepingen etc)	Kun je 2 meubels uit jouw huis kiezen, die jouw favoriet zijn? Ga verder naar de volgende pagina's om over deze 2 te vertellen
1. Algemene informatie	_
• Leeftijd:	
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Favoriete meubel 1	Hoe kom je aan dit meubel?
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	Hoe lang heb je het al? Hoeveel geld kostte het?
	Wat vind je van dit meubel? Kun je je mening en gevoel erover omschrijven? Als je wil, kun je hier de woorden en plaatjes gebruiken die je hebt meegekregen
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Waar gebruik je dit meubel voor?	
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Wie gebruikt dit meubel?	
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3. Minder favoriete meubels	Hoe kom je aan dit meubel?
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Wie gebruikt dit meubel?	
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	Hoe lang heb je het al? Hoeveel geld kostte het?
	Wat vind je van dit meubel? Kun je je mening en gevoel erover omschrijven? Als je wil, kun je hier de woorden en plaatjes gebruiken die je hebt meegekregen
 Kun je een foto van het meubel sturen naar Laura? Waar gebruik je dit meubel voor? 	
Wie gebruikt dit meubel?	

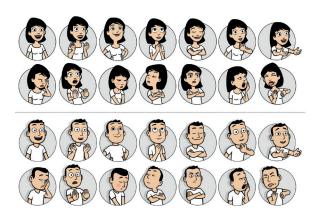
 4. Meubel dat je niet meer hebt Is er een meubel dat je niet meer hebt (bijv. laatst hebt 	Wat is de reden dat je het niet meer hebt?
weggegooid, verkocht of weggegeven)?	
maak hier een schets van je meubel, het hoeft niet mooi te zijn!	Waar gebruikte je dit meubel voor?
	Wat vind/ vond je van dit meubel? Kun je je mening en gevoel erover omschrijven?
 Kun je een foto van het meubel sturen naar Laura (als je die hebt)? 	
 Hoe ben je het meubel kwijtgeraakt? (Hoe heb je het verkocht, weggegeven, weggegooid etc.?) 	
5. Meubels opknappen / repareren Heb je ooit een meubel gerepareerd of geupgrade (of dit geprobeerd)? (upgraden is het uitbereiden van het uiterlijk of de functie van je meubel (bijv. een nieuwe verf, of extra plank etc.)	6. Thema's 1. Hoe belangrijk zijn de volgende waarden voor jou: (zet een kruisje)
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	Zelf beschikking (creativiteit, vrijheid in denken en doen, nieuwsgierigheid, onafhankelijkheid, selecteren van eigen doelen)
	Prestatie (succes, competentie, ambitie, invloed hebben op mensen en gebeurtenissen)
	2. Hoe belangrijk vind je: niet belangrijk heel bela
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	Maatschappelijk betrokken zijn
	Bewust bezig zijn met mijn ecologische voetofdruk

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de toekomst. k ben geïnteresseerd in helemaal niet heel erg duurzame (technologische) nnovaties (bijv. een tesla, neakers van recycled plastic uit de	peïnvloed mijn	eigen plan.	Anders
duurzame (technologische) nnovaties (bijv. een tesla, neakers van recycled plastic uit de			
	luurzame (technologische) nnovaties (bijv. een tesla, neakers van recycled plastic uit de	rmaal niet heel erg	

7. Voor de sessie Als voorbereiding voor de sessie: kies 2 van jouw meubelstukken uit: 1. Een meubel dat je hebt gerepareerd of geupgrade of dit hebt geprobeerd. Het kan door jezelf zijn of door een ander / professional. Als je dit niet hebt, kun je een meubel kiezen waarbij je er misschien voor open zou staan om dit te doen. 2. Een meubel dat je niet zou (laten) repareren of upgraden. Stuur van beide een foto naar Laura. Bedankt dat je meedoet aan het onderzoek van mijn afstudeer project!! Het zou me erg helpen als je dit boekje invult en mee neemt naar de sessie. Voor vragen kun je altijd bij mij terecht! Groetjes Laura Tot op de sessie! en nogmaals bedankt!!!

Emotion trigger set

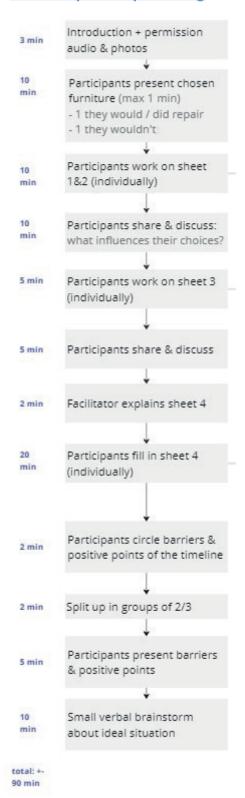
Anger	Distrust	Amusement	Positive surprise
Annoyance	Insecurity	Sensory Pleasure	Awe
Contempt	Confusion	Relief	Норе
Boredom	Resentment	Euphoria	
Disappointment	Frustration	Lust	
Rejection	Disgust	Tenderness	
Envy	Sadness	Gratitude	
Regret	Loneliness	Admiration	
Fear	Longing	Pride	
Anxiety	Guilt	Fascination	
Nervousness	Embarrassment	Inspiration	
Desperation	Worry	Excitement	
Indignation	Doubt	Schadenfreude	
Dissatisfaction	Distress	Serenity	
Hate	Shok	Satisfaction	
Reluctance		Happy-for	
Pity		Affection	
Humiliation		Elevation	
Jealousy		Worship	
Shame		Moved	
Startle		Determination	



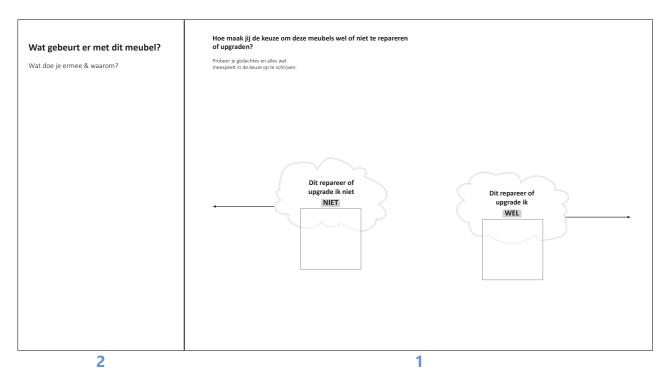
Notes

- It was led to the participants' discretion whether they
 made use of the pre-structured worksheets and trigger
 sets or preferred working on the blank reverse side of
 the sheets.
- The facilitator's main task was introducing the activities and keeping track of time. Additionally, the facilitator did encourage some participants to speak up, asked for further clarification in the conversations and cut off divergent conversations which stray too far from the topic of interest.

Session plan & planning



Worksheets



Het reparatie of ugrade proces

Prober zo well mogelijk stappen van jouw reparate / upgrade ervaring te verteilen aan de hand van de post-its.

Meubel is kappt of niet naar wens

Meubel is opgeknapt

3

Participants

_	Pilot	Session 1	Session 2	Interview session
Total	2	6	8	2
participants				
Gender	2x female	3x female	4x female	1x female
		3x male	2x male	1x male
Age groups	2x 18-35	6x 18-35	2x 18-35	2x 80+
			2x 35-55	
			2x 55-80	
Education level	2x high	6x high	5x high	2x middle
			1x middle	

B BRAINSTORM SESSIONS PLAN

Goal:

As many ideas as possible for the design direction.

Preparation

All participants received a written introduction including design goal and target group, 2 days in advance of brainstorm session.

Participants

Session 1:

- 1 facilitator: Laura Hurenkamp
- 6 IDE master students

Session 2:

- 1 facilitator: Laura Hurenkamp
- 3 people BIT team of Ministry of I&W of which 2 specifically working circularity in furniture sector.
- 1 behavioural expert from ... department of Ministry of I&W.
- 1 fellow intern, behavioural economics, also working on graduation project around DIY furniture repair.
- 1 expert from Jafix, online repair manual service

Setup

- Session 1: Online, Miro
- Session 2: Physical meeting, using big sheets of paper and post-its to write ideas on

Program

Time total: 1 hour

Introduction:

- · Rules of brainstorming
- Goal of the day
- Explain design goal & target group

Purge on empty (digital) sheet

Second wave of ideas using the questions:

How to ...

- .. support people to make a plan?
 - .. increase people's knowledge & skills?
 - .. support people to have positive expectations about the DIY process & results?
 - .. support people's confidence?
- .. support / promote people to work together?
 - .. ask for help?
 - .. know how / where to ask for help?
 - .. offer help?
- .. reach the target group?
 - .. get into contact?
- .. provide the target group's preferences (e.g., social status)?

Review ideas with the group

Hits & Dots – all participants choose individually most promising ideas.

C USER TEST DETAILS

User test - 2 concepts

interview questions

The guiding questions for the semi-structured interviews in the user tests were:

- What do you think of the concept?
- Would you use the concept?
- Would this encourage you to repair/upgrade furniture more often, why would it, or why not?
- Further remarks/tips?

User test - final design proposal Opknappers

Setup

The setup was positioned at the entrance of the store and included:

- A standing table on which the prototypes were placed.
- Prints of the 6 designed DIY cards.
- A prototype of the Opknappers store shelf, which included a cabinet with several products and category titles and letter codes attached to it.
- A3 prints of visuals of the Opknappers store shelf and exposition.
- A Figma prototype app on a phone.
- An exposition piece (half-upgraded piece of furniture) to attract attention and clarify the study topic.
- · Cookies to give to participants.



Interview guide

Visitors of the store were approached and asked if they would like to assist with a graduation project. Following, a conversation of approximately 5 minutes took place with individuals or sometimes with two people at the same time. The design elements were explained in two parts: the Opknappers app and the combination of exposition, DIY cards, and store shelf. It was varied which of the two was presented firstly in the tests. The following questions were used to ask the opinions of the participants:

- What do you think about the design, and why?
- Do you find it helpful, and why?
- Would this actually lead to your performing more repair/upgrading, and why?

D PROFILES MOTIVACTION

Duty-bound (plichtsgetrouwen)

- 13% of Dutch people
- Traditional, quiet and regular life, value family and often faith, resistance to change, socially engaged, good citizenship, not so status sensitive.
- · Sustainability: live sustainably, focused on economical and neat way of living

Structure seekers

- 32% of Dutch population
- Enjoyment, entertainment, regular and easy living, focused on the here and now, little interest in politics, risk-averse, status-sensitive, value material wealth, luxury. Little ambition and responsibility.
- · Sustainability: less motivated for sustainable choices

Status-conscious

- 22% of Dutch people
- Ambitious in career and social status, optimistic view of future, interest in technological developments, open to innovation, interest in luxury.
- · Sustainability: aware of environmental issues but not concerned

Responsible

- 22% of Dutch people
- Critical, socially and politically oriented, want to add something, discover, unleash, enjoy, stand up for environment and social success.
- Sustainability: intrinsically motivated to live sustainably, seek balance between comfort/ enjoyment and sustainability (sometimes still take the airplane for holidays)

Developers (ontplooiers)

- 10% of Dutch people
- Personal freedom, creative, forward-looking, looking for adventure and personal growth, do not follow the masses, detached from status, broad interests, pick-theday mentality
- See the importance of sustainability, do not always act accordingly.

E OVERVIEW USER JOURNEYS GENERATIVE SESSIONS

	1.1416	Wait/	Plan making process			Get
phase	Identify the issue	postponing time	Look for/ find inspiration	Call for help	Make a plan	materia tools
Participants	C,F,G,H,J,K,L, M,N,P	C,D,G,K	C,F,K,M,P	A,- B,D,G,H,I,J,L ,N,O	all	15x
Specific activities	Take a good look at damage C,H,N Problem is clear G,J,K,L,M,P	Do noting C,D,K Temporary solution G	See how roommate behaves with sofa C Pinterest F,H Due to materials at home M Make holliday plans K See what fits other furniture M,P	Call parent A,H,I,N Call partner G Call retailer L Visit retailer J,O Discuss with roommate D Ask family live B Ask colleagues O	With help A,B,D,G,H,I,N,O By yourself C,F,J,K,L,M,P Logistic plan A,B,G Ask permission partner M	Purchase onl Helping perso them A,I,N Buy at physic B,J,P,D Get & borrow Already have Buy at other s Buy on hollida
Help from				Retailer J,O,L Partner G Parent(s) A,N,H,I,B Roommate D Colleague O		Neighbour B Parent(s) B,I, Sister B Partner P Roommate H
Barriers & drivers	Appears to be hard to repair N Feeling bored F	No idea how to solve C Made no plan yet G Using damaged product is becoming frustrating G	Enjoy pinteres H Found idea on how to solve issue C In need of new type furniture, old one can be transformed P Having materials at home that would be perfect M Holliday is trigger to buy materials as souvenir K	Knowing family member has skills A,B,H,I,N Repair was needed before, know where to find professional J Being loyal and trust one repair company L Having experts in social network O	Make the plan together A,B,D,G,H,N Get advice from others O Having more furniture pieces that need (the same) treatment G,K,M Set a date / time together with helping person G,I Parents have knowledge and experience A,B,H,I,N see repair/ upgrading as a relaxed evening activity K,M Have knowledge/skills yourself K Small budget H Repair will take few hours, hard to make the time I	Easily borrow tools (family) G,B,A,I,H Having experience with specific material, know what you need P Car is needed, feel burnened to ask someone H Already having materials or tools F,M
Emotions	Sadness Dissapointment	Aversion Unsatisfied Frustrated Annoyance Disgust	Fascination Desire		Determination Hope	Positive surprise Proud

	Prepair		Rou	nd off	F
ls/	repair/ upgrading	Repair / upgrade	Clean up	Transport furniture	Evaluate result
	B,F,G,H,I,J	all	F,H	B,F,I	A,- B,C,D,F,H,J, K,M,P
ine A on takes with al DIYshop from others G,H at home F,J,M shop A,H,I,L,O ay K	Move furnitur with help B,P Make space (with help) B,G,H Gather materials F,J Make upgrade space ready F,P Check how tools work	Paint wooden furniture A,B,O,P,F Shop extra materials A,M,N Re-upholser M,K Reinforce / repair / make structure H, N,D,G, H Hide damage C Shorten blinds I Make 2nd plan Improve / touch ups	Clean up F,H Bring garbage materials to right place H	Transport furniture to own house by van B Furniture back into room F,I	Use furniture A,J,K,P Look at result Share result with others K,M
A,N,G ,D	Neighbour B Parent(s) B,I Sister B Partner P Roommate H,D	Partner B,M,F,G Parent(s) A,N Roommate H,D		Father B	
Finding cheap materials D Receiving	No suited place for repair/upgrade activity in the house H	Do it together A,B,D,F,G,H,M Find materials needed for plan 2 A,M Have a nice workspace F,K,M	Don't enjoy cleaning F	Family owns a van B Damage by	Share result with others K,M
information about materials in shop L	Moving furniture is hard B	Having experience with material and work K Seeing that 2nd plan works out C,A See repair/ upgrade		transport	
Having no tools at home G	'	Feeling insecure about own skills N Accept imperfections K,M			
Hard to make time for buying materials H		First plan doesn't work out A,J,K,N Having a new plan A,J,K,M,G,N Enthusiasm from other people F,K			
Finding beautiful materials in store B,I,P		Not satisfied with result M,A,B,K,O Upholstery is Reaching unexpected nice results O,P			
Materials are nowhere to be found J		attached with staples, impossible to get out K Being happy with results during process F			
Fear	Insecure	Insecure Annoyance Hope Joy Satisfaction	Aversion	Sadness	Positive surprise
	Nervousness	Fear Unsatisfied Positive surprise Desire			Joy
		Frustrated Doubt Euphoria			Proud
		Anger			Satisfaction
		Tired			Relief

F EXPERT INTERVIEWS, STATEMENTS ABOUT CONSUMER BEHAVIOUR

Below are paraphrased and translated statements from the expert interviews, connected to some of the barriers and drivers:

•	Emotional attachment	"We receive almost only reupholstery jobs for expensive designer, or emotional valuable furniture." (Meublowski)
•	Social norm	"It's between the ears what people do and don't repair, with a car and bike it's the most normal thing, with furniture it's not."(Sieds)
•	Required knowledge and skills	"People often think they can't do it but have never tried." (Ambacht Centre Apeldoorn)
•	Confidence/ self-efficacy	"People lack skills." (Amita)
	Environmental concern	"Most people are motivated by a sense of it being a shame to dispose, or saving money, but not to save the earth." (Sieds)

Accessibility tools & supplies

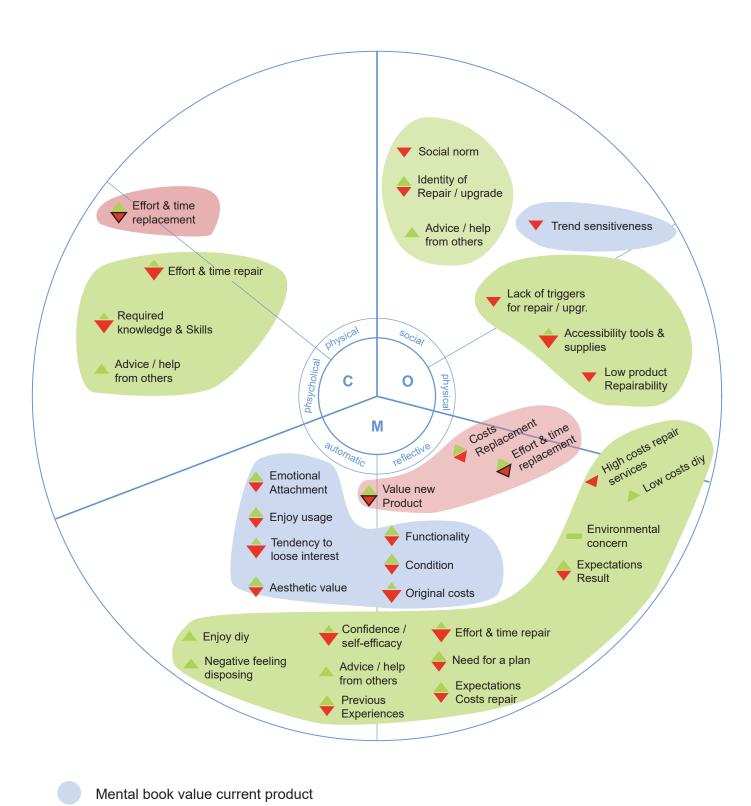
"People sometimes don't have a workplace that is suited to get dirty." (Ambacht Centre Zwolle)

Low product repairability

"People don't take the time for it." (Amita)

Effort & time

G COM-B WITH ALL DRIVERS AND BARRIERS



Attitude towards new product

Attitude towards repair / upgrading

H INITIATIVES OVERVIEW

Lifespan extension of furniture is starting to become an increasingly hot topic. Currently, more and more companies are working on repair and reuse. Initiatives and active companies have been identified, an overview of all these initiatives is presented below.

Name stakeholder	Description initiative
Marktplaats & Race	Education on primary schools about sustainability
against Waste	
Sire	Campaign: Waardeer het, Repareer het 2019
Marktplaats	Campaign: commercials about value 2nd hand furniture
Milieu Centraal	International repair day – toolkits for repair cafes with
	communication materials
Ikea	Campaign about DIY repair is coming up
The Reuse Alliance	Collaboration of companies in the furniture industry, work
	together towards circular furniture sector.
The Substitude	Platform and community around sustainable interior and
	renovation.
Werkspot.nl &	Find a 'klusjesman / vrouw'
zoofy.nl	
Manon Ruijgrok	Upholstery
Meublowski	Upholstery & offering workshops
Matteo Visser	Antique restorer (furniture)
Leolux	Repair products from their brand in and out of warranty
Label van den Berg	Repair products from their brand
POS	Repair company
Vitra Circle	Repair, refurbish and resell showroom and stock furniture pieces
Intergamma	Focusses more on clients with less experience in DIY
	https://www.rtlnieuws.nl/editienl/artikel/5409186/waarom-
	<u>jongeren-minder-goed-klussen-gamma-praxis</u>
Timmerman Koos –	Tutorial videos
YouTube	
Other content creators	Tutorials and inspiration content
on social media	
Jafix	Online repair tutorial platform
VT Wonen	Webpage with DIY interior projects
Several municipalities	Free cargo bikes and trailers available for citizens to bring bulky
	waste / second-hand items to the disposal site
Circular Ambacht	Some of these are working on furniture repair / upgrading
Centra	-
IKEA	Pilot on doubling offer of second-hand furniture in their shops
Marktplaats	New label on website for second hand products: 'not functioning'

Waste disposal sites	Some select the discarded usable furniture pieces and bring these to thrift shops.
Waste disposal sites	Some pilots around reselling disposed furniture pieces at the site
Ikea	Developing solutions to make spare parts available globally
Marktplaats	Project Street Rescue: collaboration with municipalities to prevent
	good functioning furniture being disposed and ending up on the
	streets.
Branchevereniging	Research and pilots around a Upcycle collection, circular
Kringloop Nederland	warenhuis
WaardeRing	Pilot sustainable store for interior
Bankhoezendiscounter	Selling covers for standard sofa sizes
Boost paint	Special collection of furniture paint
Marktplaats	Research regarding if Marktplaats can offer transport service for
	big items sold on their platform
Vitra	Pilot with DIY videos
Onze	Design and workplace making interior items from waste materials
Euromesmarko	Circular furniture design
Cooloo	Making sustainable coatings for furniture and circular furniture
	design
Ikea & Space 10	Modular thinking for furniture design
	https://www.dezeen.com/2022/05/27/oio-ikea-ai-space10-
	<u>furniture-evolve-adapt/</u>
The upcycle	Designstudio, making design from waste material
The upcycle &	The upcycle has made new furniture from materials sourced from
Woonzorg Nederland	furniture from renovated houses from Woonzorg Nederland
Studio Hamerhaai	Designstudio, interior products form waste materials
Blooey	Designstudio, interior products form waste materials & social goal
Tolhuijs	Designstudio, interior products form waste materials & social goal
Gispen & TNO	Circular design framework

INDIRECT STAKEHOLDERS

Dutch Government (responsible ministry: Ministry of I&W) is working on:

- Providing financial resources (such as development and scaling-up incentives for recycling and reuse programs)
- Supporting/establishing pilot businessmodels
- · Planning for a UPV for furniture
- · Developing design requirements for Eco-design
- Creating a repair guide
- Grants for circular Ambacht Centres (Rijksoverheid, 2023)

European commission

Is working on a proposal focused on eco-design. This involves developing a wide range of targeted product requirements to address the product aspects that influence environmental impact such as product durability, reusability, upgradability, reparability, the impact of materials used, and more. (European-Commission, 2022).

Right to repair movement

A coalition of European organisations pushing for system change around repair. fighting for legal actions by the government in several countries to ease repair for consumers. By product design for repair, making spare parts available as well as information provision, affordability and transparency of repair (Right to repair, 2023).

Various research projects

Multiple studies are being conducted on the circular furniture industry, such as research project "Urban Upcycling" by the HvA (Hogeschool van Amsterdam).

Het Groene Brein

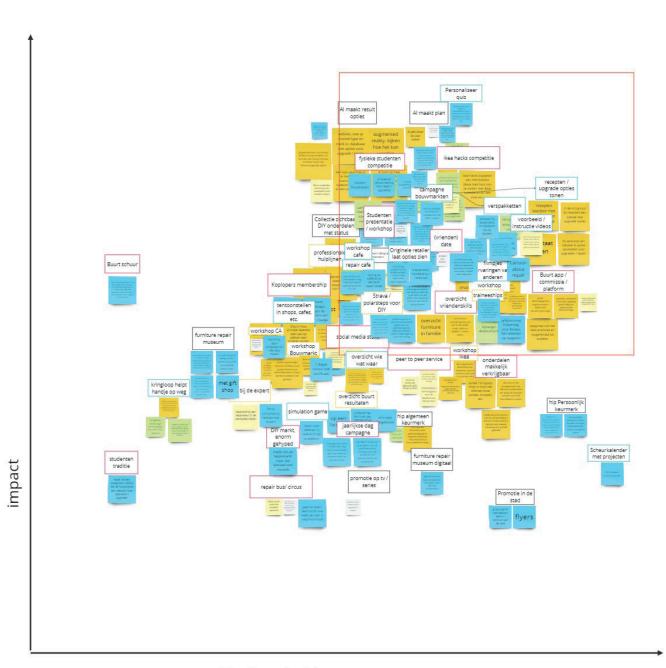
A nonprofit organisation that encourages companies in the furniture industry to collaborate on circular pilots and plans within the consortium: the Reuse Alliance.

Educational institutes

To scale up repair/upgrading, it is necessary to educate more repair technicians.

J + / - 50 IDEAS

- 1. Traveling repair crew and bus
- 2. DIY market, hype on social media
- 3. Make it a student tradition, part of yearly program / in student houses
- 4. Peer to peer service
- 5. National, yearly repair/upgrade day
- 6. Make repair / upgrading a date activity (romantic or with friends)
- 7. Membership / ambassador status for fanatic repair/upgraders -> getting discount on materials when helping others and spreading the word
- 8. Social media stunt
- 9. Neighbourhood DIY space
- 10. Overview of knowledge and supplies of friends
- 11. Neighbourhood app or committee or platform
- 12. Special shop for tools / corner in existing shops / renting a toolkit
- 13. Conversation starter about repair / upgrading to start new plans
- 14. Ikea hacks competition
- 15. Student competition, between faculties, student houses or associations
- 16. Exposition of all DIY results from people in neighbourhood (photo wall / pin board)
- 17. Workshop for company / traineeship as teambuilding
- 18. Workshops at Ikea with Ikea diner
- 19. Workshop at Circular Ambacht Centres where you try techniques on not selling items from thrift stores
- 20. Workshop at hardware stores (Gamma / Praxis), visible for all visitors of the store
- 21. Strava/ polar steps platform to share DIY progresses with friends
- 22. (video) call / chat with experts
- 23. Work on your own DIY project in the work place of experts, get advice but DIY
- 24. Tear-off calendar with DIY furniture repair/upgrade tips and projects
- 25. Simulation game, upgrade furniture on your phone and learn the steps
- 26. Instruction videos (with music in which the lyrics are step-by-step plans)(cartoon)
- 27. Verspaketten
- 28. Workshops especially for students, organised at associations / sport centres.
- 29. Recipes with upgrade options and plans
- 30. Workshop in a café: upgrade the interior of the café
- 31. Exhibitions of upgraded pieces in shops, cafés etc
- 32. Videos with experiences of others
- 33. Retailers showing repair / upgrading options for their brand's products online.
- 34. Thrift stores doing the first steps: removing old upholstery and selling new for example
- 35. Overview of all locations and stakeholders that you could possibly need. Google maps overview for example with all repair shops, Ambacht Centres and shops where to buy paint, fabric etc.
- 36. Al making a step-by-step plan
- 37. Al showing possibilities of results
- 38. A quiz, asking a consumer about their style, and DIY preferences and then suggests DIY projects
- 39. Campaign at hardware stores, employees providing advice
- 40. Flyers / big screen in city centres to attract attention
- 41. Promotion on tv / in Netflix series
- 42. Museum devoted to furniture repair / upgrading
- 43. Digital museum devoted to furniture repair / upgrading
- 44. Luxurious / stylish collection with DIY materials
- 45. A special 'quality mark' for upgraded / repaired furniture. So people can recognize upgraded furniture when sitting in a restaurant or elsewhere.
- 46. Personal mark to put on the furniture you have upgraded / repaired, burning your signature into the back of a closet for example, creating a list of names who owned and altered the product.
- 47. Apply the design via student housing institutes or 'vereniging eigen huis' to get into contact with people that just moved.
- 48. Place DIY advertisement on the funda website to target moving people.



Haalbaarheid

L 11 IDEAS AND THEIR HARRIS PROFILES

Explanation ideas

1. A luxurious collection of DIY parts and materials:

In collaboration with trendy products, designed by famous artis or luxury interior/design brands. High-quality, luxurious DIY materials such as gold legs, gold filler, beautiful paint, adhesive surfaces with beautiful print/texture, handles. Sustainable, unique, customizable.

Sell in, for example, stores like Bijenkorf.

2. WhatsApp group Overview of skills & tools

Extension on WhatsApp group which provides an overview of all group members' their:

- a. Skills
- b. Tools you want to share
- c. Shared agenda
- d. Help requests/dilemmas
- 3. Neighbourhood / apartment complex WhatsApp group for DIY tasks (a kind of committee can be set up with experts).
- 4. 'Verspakketten' and recipe cards in shops

Recipe cards for various common defects/repairs (e.g., new colour, scratches, textile damage, stains, etc.). The cards display large photos of DIY results and provide a brief step-by-step plan, required materials, reviews, and links to videos/more information. Each recipe card corresponds to a 'verspakket' containing all the necessary supplies. These packages can be offered by hardware stores, but also by thrift stores or Ikea, (specifically targeting popular Ikea products/ or frequent defects).

5. Call centre

Call/chat options to quickly get tips from experts during repair/upgrade activities. Al can also assist here.

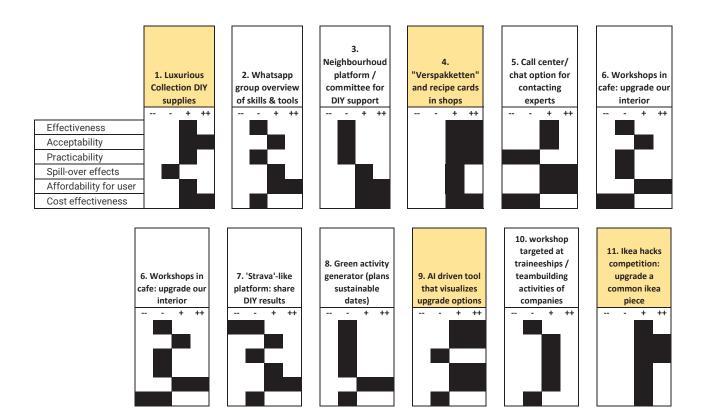
6. Workshops in café:

The café invites visitors to make small upgrades to the interior during their visit to the café. This way, visitors contribute to the appearance and come more often to show each other what they have made. Also, the café serves as a kind of exhibition of possibilities and a fun social setting for DIY repair / upgrading.

- 7. Strava-like platform: share DIY results
 Special platform to share your progress in DIY projects with your own social circle.
- 8. Green activity generator Similar to Breeze (dating app), everyone fills in their availability, the app determines what you will do, this app can only suggest green activities. Such as repair/upgrading.
- 9. An Al-driven digital tool that generates a plan and examples of outcomes: With your phone, you can take a photo of your furniture or film live. Or you can upload a photo from, for example, a Marktplaats item. With the Al, you can generate a kind of filter over the image, for example, give it a new colour, add extra functionalities, add extra aesthetic parts, anything that is possible. The tool also immediately shows which steps, costs, and time are required for this DIY.

- 10. Workshops at traineeships/team-building days at work: Repair/upgrading of furniture becomes part of, for example, training days of traineeships, or teambuilding days of company teams. In the workshop, a link can be made to leadership training, or out-of-the-box thinking training.
- 11. Ikea campaign: Ikea repair/upgrade hacks competition: Ikea can start a competition in which people are asked to upgrade a common (and often discarded) Ikea furniture (in teams) and share the results. Ikea can organise:
- a. An exhibition in the store.
- b. A nice prize (furniture that lasts long, or cleaning service for the entire household?)

Harris profiles



M FIRST PROTOTYPES RECIPE CARDS



introductie

Stappen



1. Maak het meubel schoon





3. Schuren



4. Beschadigingen opvullen





6. Grondlaag





8. Tape verwijderen



9. Plaats terug / vervang hardware





Houten meubels krijgen ook een mooi resultaat van olie, beits of krijtverf, bekijk onze andere kaarten

Benodigdheden 💥



Ontdek welk ondergrond jouw meubel heeft om te

kie	zen voor de juiste: \ In de	winkel
	Ontvettend middel Primer verf Houtlak	C G L
	Schuurpapier (150 & 220 grit)	S
	Terpetine —	С
	Schilderstape —	Н
	Kleine kwasten (minimaal 2) -	Н
	Schuimroller (minimaal 2) —	Н

Optioneel

Schuurpapier voor je	S
schuurmachine (150 & 220 grit)	
Nieuwe hardware —	J
Schoonmaakmiddel / verf —	C
om hardware te upgraden	
Airhrugh	

Handig

- Schuurmachine
- Stofzuiger
- lets om je vloer te beschermen
- Schroevendraaier om hardware te verwijderen
- Doeken

$\triangle \triangle \triangle \triangle \triangle$

"Ik heb deze techniek voor mijn houten stoel gebruikt, hij ziet er weer heel goed ui!"

"Het schuren was lastig door de vorm van mijn tafel, maar uiteindelijk hecht te verf heel goed!"

"Ik kon geen kast vinden in de kleur die past bij mijn inrichting, nu heb ik een uniek meubel!"



Het oppervlakkige roest wat je vaker tegenkomt op het chroom van chromen buizen is eenvoudig te verwijderen.

Stappen (staalwol)



 Wrijf het staalwol met de hand stevig over het chroom.

Poets net zolang tot het roest verdwenen is het chroom weer glimt alsof het nieuw is! Vergeet niet goed in de hoekjes en naadjes te poetsen voor het mooiste resultaat.



Veeg met een schone, pluisvrije doek de restjes staalwol en eventuele vetvlekken weg.

Resultaat; een prachtig glimmend chromen buizenframe.

Stappen (aluminium folie)



 Wrijf een nat, dubbelgevouwen aluminium folie stevig over het chroom.

Poets net zolang tot het roest verdwenen is. Vervang je folie af en toe, een nieuw stukje werkt effectiever.

2. Veeg schoon met de pluisvrije doek.

Heb je leren bekleding die wat aandacht nodig heeft? Kijk eens naar de handleiding om leer op te knappen!

Benodigdheden 💥



· ·	Fijne staalwol Pluisvrije doek	In de w	inkel Q K
	Aluminiumfolie		Q
	Bankje water Pluisvrije doek		K





$\triangle \triangle \triangle \triangle \triangle$

"Super makkelijk"

"Je moet wel goed opletten dat je de roest niet in je bekleding smeert, dan krijg je vlekken" "Ik wist niet dat dit zo goed werkte"

N FINAL DESIGNS DIY CARDS

6 card designs



Met lak bescherm en kleur je je hout. Er is dekkende, of (semi-)transparante lak, hoogglans, satijn of mat. Daarnaast is er binnen of buiten lak.

Stappen





ONTVETTEN Maak het hout schoon met ontvetter. Maak lades of hardware los.



GATEN VULLEN Vul eventuele gaten / diepe krassen op met houtvuller en laat drogen.



SCHUREN Schuur de oppervlaktes, eerst met 150, daarna 220. Stof goed af.



AFPLAKKEN 4 Gebruik tape op de niet te verven plekken.



5 VLOER AFUE Bescherm uw **VLOER AFDEKKEN** omgeving tegen verf.



GRONDVERF Roer en breng dun aan met de kwast/ roller. Laat drogen en schuur licht.



LAKKEN Roer en breng dun aan, laat drogen. Schuur en breng een extra laag aan als nodig.



AFRONDEN Plaats eventuele hardware terug, sluit de verf potten goed af.



Hoe zou dit staan op jouw meubel? Probeer de opknappers app



Benodigdheden



Ontvettend middel



120 & 220



Meer opties in verf afdeling



Doekje of spons



Schuurpapier



Grondverf



Kwasten voor lak



Hout lak Meer opties in verf afdeling



Schilders tape



Schuim roller & bakje



Terpentine

Handig



Vloer folie



Schuur machine Schuur afdeling



Platte schroevedraaier tools afdeling

Aluminium

folie



Plamuurmes





Verf doekje

☆☆☆☆☆

"Ik heb deze techniek voor mijn houten stoel gebruikt, die ziet er weer goed uit!" "Ik kon geen kast vinden in de kleur die ik wilde, nu heb ik een uniek meubel!"







Vlekken meubel bekleding zijn veelvoorkomend. Probeer eerst de milde aanpak. Als dit niet werkt, kan HG vlekkenspray een uitkomst bieden. Deze is geschikt voor vrijwel alle soorten textiel en vlekken.

Vlek in bekleding van leer? Volg dan de stappen van de kaart: leer reiniging & onderhoud

Stappen

Milde aanpak



GROF VUIL VERWIJDEREN Haal grove stukken vuil weg met behulp van een lepel of achterkant van een mes, gebruik geen scherp voorwerp of je nagels.



SHAMPOO SOPJE Probeer de vlek schoon te maken met een sopje van lauw water (c.a. 30°C) en een ph-neutrale shampoo of wasverzachter.

Benodigdheden





ph-neutrale shampoo of wasverzachter te koop

bij drogist

Doekje



A

Borstel

Zeer hardnekkige vlek



BESPROEI DE VLEK Besproei de vlekken volledig met HG vlekverwijderaar. Vermijd contact met de ogen



2 VUIL OPVEUEN
Laat de vlekverwijderaar **VUIL OPVEGEN** enkele minuten intrekken. Neem het losgekomen vuil op.



3 NAT AFNEMEN Neem het gehele oppervlakte nat af.



AFRONDEN Laat drogen, je kunt het nog borstelen en stofzuigen.

Hoe zou dit staan op jouw meubel? Probeer de opknappers app



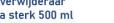






Emmer

vlekverwijderaar extra sterk 500 ml





Handdoek of keukenpapier

☆☆☆☆☆

"Verwijdert alles, zeer goed spul"

"Fijn spul, insprayen en het spul doet de rest navegen met water en vlekkenreiniger"



Een vlak oppervlakte werkt het makkelijkst, maar geronde vormen zijn zeker mogelijk. Hier werken we voor het gemak met tegelmatten. Je kunt ook losse tegels, stukjes tegels, steentjes of bijv. knikkers gebruiken!

Stappen





SCHOONMAKEN Maak alle oppervlaktes schoon met schoonmaakmiddel.



TEGELS OP MAAT Knip en pas de matten zoals gewenst.



LIJM AANBRENGEN Smeer steeds een oppervlakte ter grootte van 1 mat in met een ±3mm laag tegellijm.



BETEGELEN Plak de tegelmatten 1 voor 1 netjes op het oppervlakte. Druk goed aan en laat drogen.



TEGELS VERVEN Optie: Als je de tegels wil verven, is dit het moment. Bekijk de kaart tegels verven.



VOEGSEL MENGEN Meng de voegmortel volgens de verhouding op de verpakking. Laat het even staan en roer goed.



VOEGEN Dit is een rommelige stap. Smeer het voegsel met je handen, werk snel, het voegsel droogt.



SCHOONMAKEN Gebruik een spons en water om de tegels schoon te vegen. Laat 10 min drogen en herhaal.



Hoe zou dit staan op jouw meubel? Probeer de opknappers app

Betegelde plakfolie werkt nog makkelijker en sneller! Bekijk hiervoor de kaart:

plakfollie aanbrengen

Benodigdheden





Mixer boor opzetstuk **Boor afdeling**



Voegkruisjes Bij gebruik losse tegels



Schoonmaak handschoenen



"Ik vond het zo leuk om te doen, ik zit er zelfs stiekem aan te denken om in de tuin iets te gaan tegelen."

Bezoek de Gamma website voor meer informatie



Suggested topics of first collection

Hout

Staining, for outdoor and indoor use Lacquer, for outdoor and indoor use Chalk paint, for indoor use Painting veneer Repairing damaged veneer Concealing scratches Adding edge banding Removing stains Applying oil Gluing joints Screw joints/hinges Adding/replacing shelves

Textiel

Removing stains
Reupholstering simple stool
Securing loose stitching
Deep cleaning
Leather maintenance
Dyeing textiles + patterns
Dyeing leather
Making cushions
Shortening curtains

Extra twist

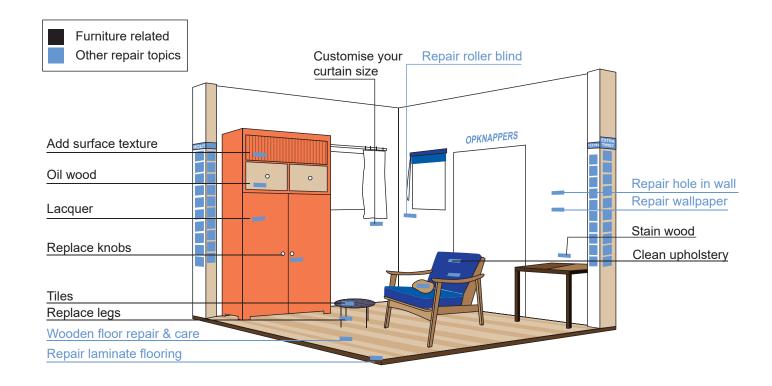
New legs
New knobs/handles
Tiling
Felt pads under legs
Adhesive foil
Adhesive tiles
Adding relief to cabinet doors
New glass panel/mirror

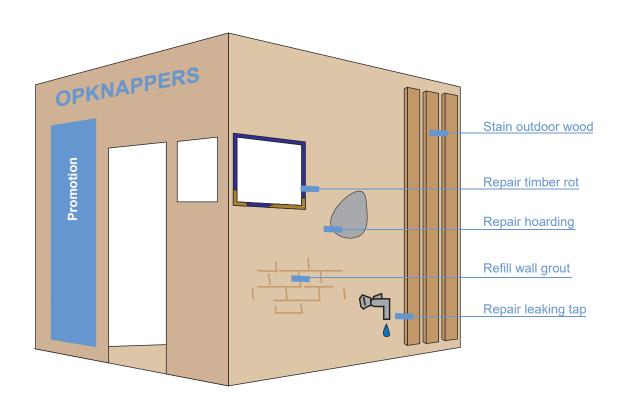
O FINAL DESIGN EXHIBITION

Picture of interactive display



Topics in the exhibition





Examples of past exhibitions





 $https://www.gamma.nl/bouwmarkten?\&msclkid=2f81aaf981fd1302b193cf64db56c670\&utm_source=bing\&utm_medium=cpc\&utm_campaign=1.\%20SB\%20-\%20Overig\&utm_term=gamma\%20winkel\&utm_content=gamma\%20-\%20winkel\&gclid=2f81aaf981fd1302b193cf64db56c670\&gclsrc=3p.dswinkel\&gclid=2f81aaf981fd1302b193cf64db56c670&gclsrc=3p.dswinkel\&gclid=2f81aaf981aaf980aaf980aaf980aaf980aaf980aaf980aaf980aaf980aaf980aaf980aaf980aaf980aaf980aaf980aaf980aaf$

https://m.facebook.com/GAMMAAlkmaar/

P OVERVIEW PRODUCTS IN STORE SHELF

Wood

- 1. Wood filler
- 2. Putty knife
- 3. Wood markers
- 4. Clamp
- 5. Wood glue
- 6. Dowels
- 7. Corner brackets/other shelf supports
- 8. Turpentine
- 9. Paint remover
- 10. Degreaser
- 11. Floor cover
- 12. Brushes
- 13. Rollers/trays
- 14. Coarse and fine sandpaper
- 15. Coarse and fine sanding block
- 16. Sample of paint
- 17. Sample of stain
- 18. Sample of oil
- 19. Primer
- 20. Sample of chalk paint

Textile

- 1. Chalk paint
- 2. Textile paint
- 3. Leather wax
- 4. Leather filler
- 5. Leather paint6. Leather brush
- 7. Stain remover
- 8. Cleaning / refreshing agent for upholstery
- 9. Staple gun
- 10. Staples / nails
- 11. Staple remover
- 12. (Samples of fabric)

Extra twist

- 1. Adhesive film
- 2. Felt pads
- 3. Glue
- 4. Wooden sticks/panels
- 5. Glass and mirror panels
- 6. Legs
- 7. Rattan
- 8. Screw connections
- 9. Tiles
- 10. Tile cutter
- 11. Grout
- 12. Tile adhesive
- 13. Adhesive tiles
- 14. Knobs/handles

General

- 1. Sponges
- 2. Cloths
- 3. Cleaning brush
- 4. Stanley knife
- 5. Gloves
- 6. Dust mask
- 7. Measuring tape
- 8. Aluminum foil
- 9. Tape