



## Appendix

# Navigating Value Dynamics

A tool for mapping multi-stakeholder  
value ecosystems in the LIFE Project

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# A

## Project Brief

Project brief to kickstart the project including introduction, problem definition, assignment, project approach, motivations and personal ambition.



**Personal Project Brief** - IDE Master Graduation

Strategic Plan to engage large asset owners in the LIFE platform project title

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

start date 01 - 03 - 2023 09 - 08 - 2023 end date

### INTRODUCTION \*\*

Please describe, the context of your project, and address the main stakeholders (interests) within this context in a concise yet complete manner. Who are involved, what do they value and how do they currently operate within the given context? What are the main opportunities and limitations you are currently aware of (cultural- and social norms, resources (time, money,...), technology, ...).

This project will be part of the LIFE (Local Inclusive Future Energy) platform, developed by the Amsterdam Institute of Metropolitan Science to explore different enablers of the energy transition. The LIFE platform offers users in the area the opportunity to make decisions on energy sharing and storage based on economic factors, sustainability, or support of the energy network (AMS Institute, 2023). TU Delft is one of the partners currently researching the engagement and inclusion of stakeholders in Amsterdam Zuidoost.

The IDE faculty has been involved in the project for two years in close collaboration with the AMS Institute project consortium. This graduation project will build on the previous knowledge of graduate students and the collaborative work between IDE and the LIFE project consortium. Three other IDE students will start working on the project simultaneously with different scopes. This will provide an opportunity for collaborative efforts and idea-sharing to address a complex problem.

For the LIFE platform to operate, Amsterdam Zuidoost relies on the participation of a wide range of stakeholders: Energy infrastructure (energy providers, grid operators), small and large businesses (stores, shopping malls, large entertainment venues, banks), and residents.

Some of the large companies could be classified as large asset owners. Large Asset Owners (LAOs) are defined as potential participants in the platform, companies who have high energy consumption and own or potentially have access to their own energy assets (batteries, power generation capacity).

Stakeholders in the area have been identified but engaging with them remains a challenge. As a client, the LIFE project consortium mediates exchanges with LAOs project partners such as Johan Cuijff ArenA and potential partners such as Ziggo Dome, ABN Amro, and ING bank. Current partners are open to collaboration, but as they have been approached before, interactions require prior planning, which could be a limitation.

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introduction (continued): space for images

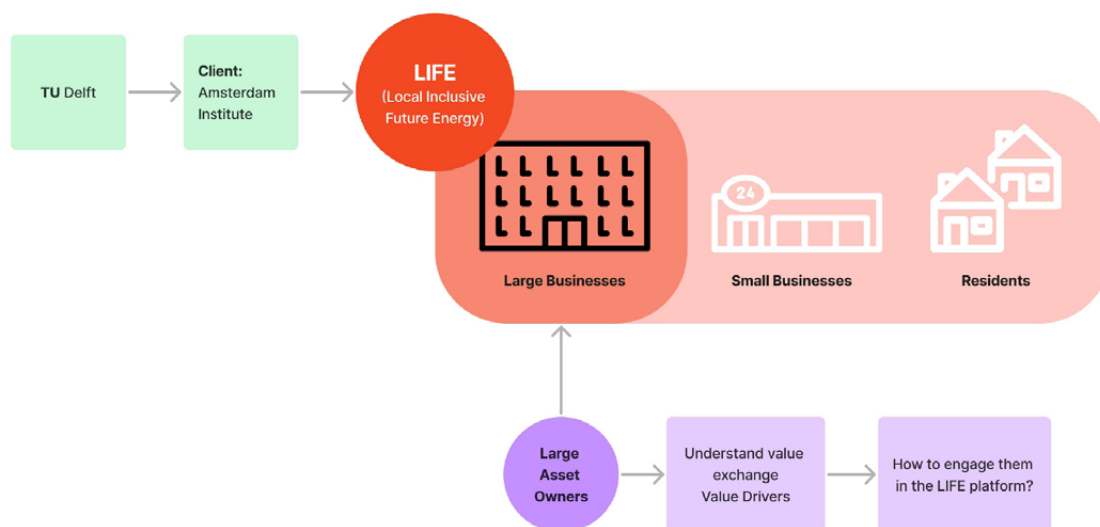


image / figure 1: Project context and scope

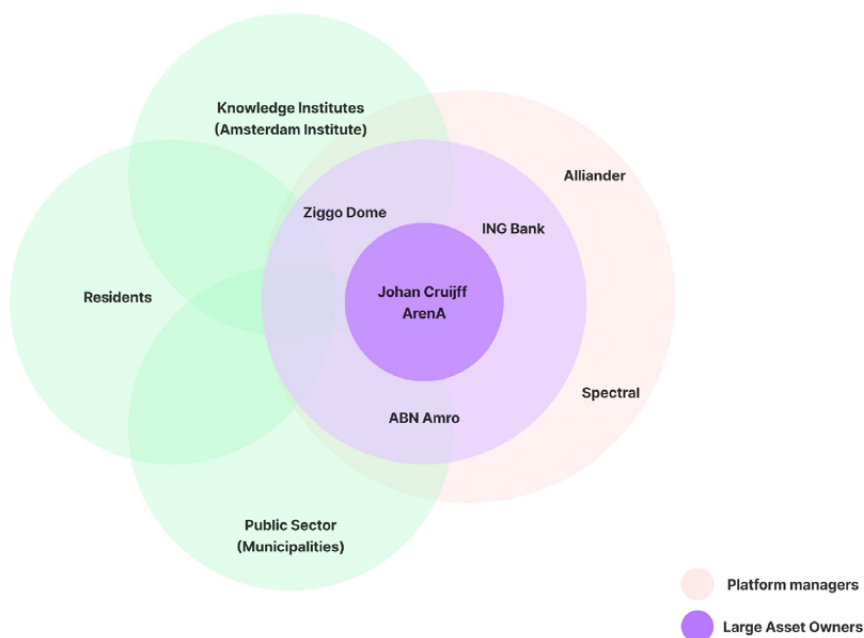


image / figure 2: Stakeholder map and focus on Large Asset Owners



## 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.

The LIFE project explores a smart energy exchange platform to provide socio-economic benefits and opportunities to local residents and communities in Amsterdam Zuidoost. The increasing demand for energy use and the limited capacity of the current energy network in the area calls for an alternative infrastructure or models to prepare it for the future.

The LIFE platform offers the opportunity to make decisions about energy exchange, but an important aspect is still missing. To achieve real benefits for residents and communities, the role of large asset owners within the platform needs to be defined. Currently, Large Asset Owners (LAOs) understand energy supply, storage, and distribution from a technical perspective. For LAOs to be engaged in the transition, their interests and values need to be mapped, in order to explore new opportunities that might get them onboard the LIFE platform and provide socio-economic benefits to the community.

The scope of the project focuses on the main LAOs in the area. Priority stakeholders have been identified based on the impact they bring to the platform. For this project, Johan Cruijff ArenA will be the main focus, as it is not only an asset owner but a key project partner.

The project is divided into the following main steps:

Based first on previous research (literature review and LIFE project research), understand the context and the role of the actors involved. Next, conduct qualitative research on the current operation of the stakeholders, focusing on the values exchanged and their drivers. Finally, synthesize the results and translate them into value and business propositions for LAOs to present new opportunities that incentivize them to participate in the LIFE platform.

## 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.

The main assignment of this graduation project is to explore new value-adding opportunities for Large Asset Owners in the Amsterdam Zuidoost area to engage them within the LIFE platform.

First, understanding the current role of Large Asset Owners and other stakeholders in the area. Then, devise potential value and business propositions for Johan Cruijff ArenA and if possible within the project timeline, other LAOs. The propositions will be developed into a strategic roadmap to promote LAOs' engagement in activities relevant to the design and implementation of the LIFE platform.

The initial research questions are the following:

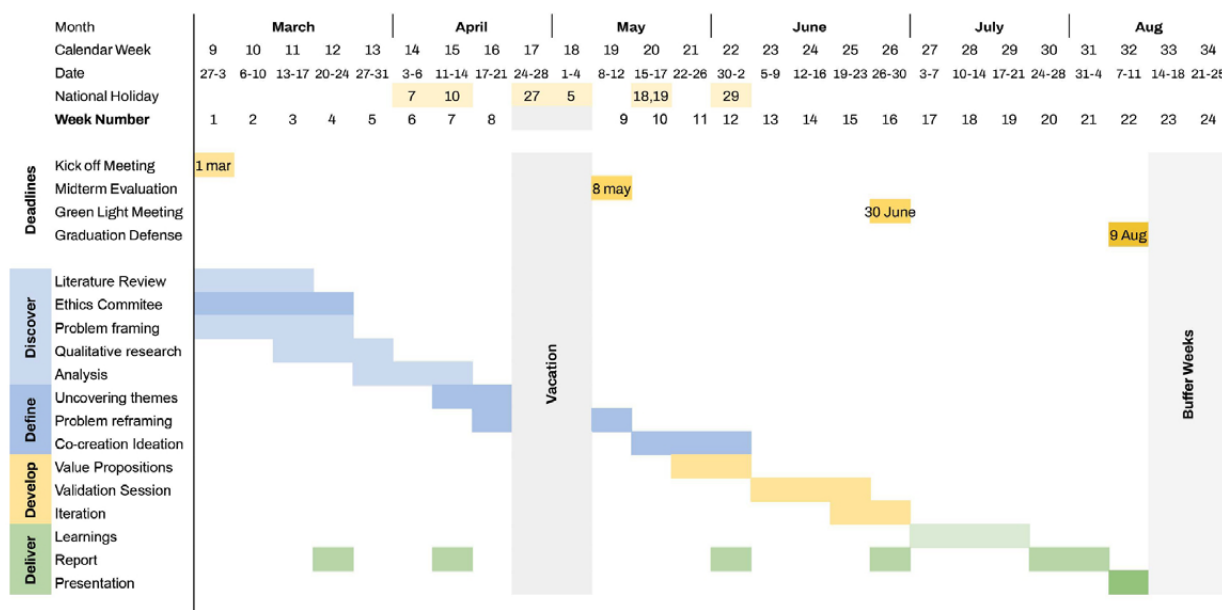
1. How to translate the objectives and goals of the LIFE platform project into potential value opportunities for LAOs?
2. How can we make the values tangible and attractive for LAOs to engage in the LIFE platform?
3. How can we develop value propositions that benefit the multi-stakeholder ecosystem of Amsterdam Zuidoost?

## 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.

start date 1 - 3 - 2023

9 - 8 - 2023 end date



**Discover:** Familiarize with previous LIFE platform research. Attend the first consortium meetings to understand the context and frame the problem. Conduct interviews with relevant research experts at AMS Institute and stakeholders at Johan Cruijff ArenA. Plan & schedule co-creation sessions with Johan Cruijff ArenA.

**Define:** Analyze data, uncover themes, and synthesize findings using the Value mapping method leading to problem reframing.

**Develop:** Conduct co-creation sessions with key LAOs and experts. Analyze results from creative sessions using the value proposition canvas and the means-end chain framework. Validation Session to present value propositions to the actors involved and gather feedback. Refine and iterate value propositions.

**Deliver:** Based on value propositions detail a strategic roadmap for the AMS Institute to engage with LAOs. Complete the graduation report and prepare the final presentation.

## 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.

Over the course of this project, I want to broaden my creative facilitation skills and acquire a practical understanding of co-creation methodologies in a multi-stakeholder environment. The project addresses internal politics and stakeholder management; thus, I want to challenge my leadership and project management skills as the project owner.

As a learning ambition, I would like to explore the real impact of design research in a multi-stakeholder project. Understand how to design for values, balance the interests of different actors and unravel how values influence, link, and conflict with each other. I want to bring a social perspective to a proposal that makes sense from a business point of view. To help the social team of the LIFE platform consortium to address large companies and generate value for all involved. In addition, I aim to gain in-depth knowledge of the energy transition and current energy exchange systems.

One of my objectives for this master's was to understand how design can become a bridge between industry/companies, the public sector, knowledge institutes, and citizens. The LIFE platform is part of the Municipality of Amsterdam's efforts towards a gas-free 2040. My client is a Knowledge Institute creating value propositions to engage companies. However, the propositions have to fit into a multi-stakeholder ecosystem with the goal of including and benefiting communities. Within this context, taking a systemic perspective, I am curious to explore whether top-down innovation can maintain a social perspective and what role I envision myself playing within these dynamics as an SPD in my future career.

## FINAL COMMENTS

In case your project brief needs final comments, please add any information you think is relevant.

## B

### Field research activity log

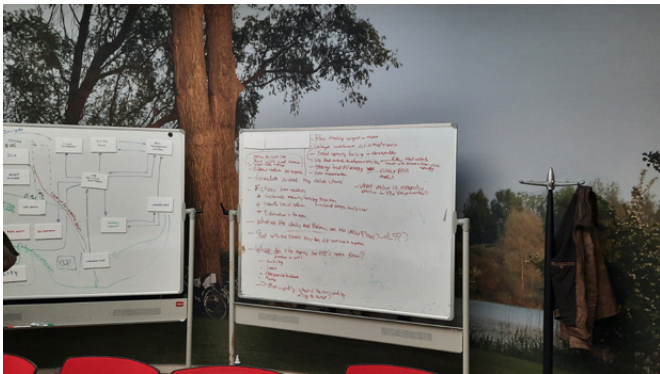
Activity log of research activities conducted.

Date	Name	Activity	Location (or online)	Activity type	Role
2023/03/07	A	Interview LIFE Stakeholder Engagement Coordinator	Huis van de Toekomst	Interview	Interviewer
2023/03/14	B	Advisory Board Session	Huis van de Toekomst	Meeting	Field Observation
2023/03/21	C	Interview Johan Cruijff ArenA, LIFE project manager	Huis van de Toekomst	Interview	Interviewer
2023/03/28	D	Session-Battery Use Case	Huis van de Toekomst	Co-creation Session	Field Observation
2023/03/21	E	Interview Project Manager Alliander	Huis van de Toekomst	Interview	Interviewer
2023/03/30	F	EnergieLab Zuidoost Seminar	De Groene Hub	Event, Co-creation session	Support facilitator, Field Observation
2023/04/04	G	Interview Gemeente Amsterdam, LIFE Project Management Team	Huis van de Toekomst	Interview	Interviewer
2023/04/06	H	Interview Research Coordinator Spectraal	Online	Interview	Interviewer
2023/04/11	I	Communication Workshop	Huis van de Toekomst	Co-creation Session	Facilitator
2023/04/11	J	Interview University of Utrecht, Academic Researcher	Huis van de Toekomst	Interview	Interviewer
2023/04/13	K	Interview TU Delft, IDE Design Anthropology Researcher	TU Delft	Interview	Interviewer
2023/04/18	L	Workshop Value Opportunities	Huis van de Toekomst	Co-creation Session	Interviewer
2023/04/20	M	Interview Gemeente Rotterdam, Advisor	Online	Interview	Note-taker
2023/05/16	N	LIFE partner Day	AMS Institute	Co-creation Session	Participant
2023/05/23	O	Project coordination meeting	Huis van de Toekomst	Meeting	Field Observation
2023/07/05	P	Value ecosystem tool Validation	Huis van de Toekomst	Co-creation Session	Facilitator



## Activity D

### Battery Use Case



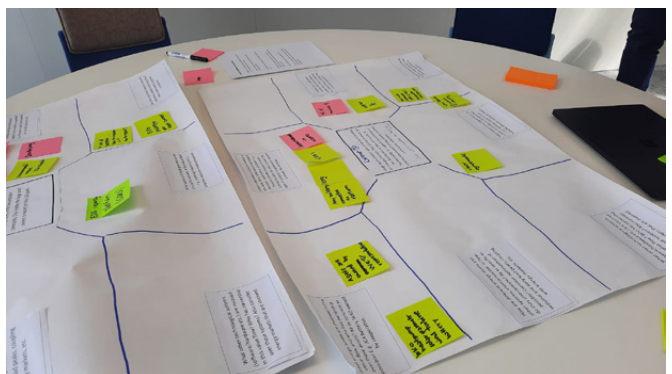
## Activity F

### EnergieLab Zuidooost Seminar



## Activity N

### LIFE partner day



# C

## Value modeling tool analysis

Following is a first approach to the analysis of value modeling tools, categorizing them as either value-based or value-cocreation-based.

## Value as unidirectional

### PSS centric

Represents the benefits delivered to stakeholders for which payment or another value exchange takes place

customer perspective

trying to achieve target (create, improve, reduce) without losing sight of the customer's needs and expectations (the right fit)

### project centric

process of identifying, diagramming, and **prioritizing** stakeholders by analyzing their **influence and interest** in a project

Interactions

### Firm centric

Simplified representations of elements and interaction that an organizational unit chooses in order to create, deliver, capture and exchange value (Bocken, 2015)

Internal value of value proposition (Bocken, 2015)

### Firm centric

Considering value created and delivered from a public perspective. The model does not follow a profit perspective, but is mission-driven (government and non-profit organization) (Timeus, K., et al., 2020)

Figure 2. The City Model Canvas (CMC).

## Value co-creation

## Value network Value ecosystem

### Firm centric

value mapping tool is developed to help firms create value propositions better suited for sustainability

how businesses might create balanced social, environmental and economic value

Major stakeholder segments (government, academia, industry, etc.)

Value proposition (the firm's value proposition)

### Impact in value network

### value in use centric

Integrates value propositions from different actors, visualize in network level

SD perception of value

value ecosystem goal defined as value in use

help firms to transition to service focus SD

firms to understand where the value is

### ecosystem centric

strategy tool to map analyze and design innovation ecosystems

analysis and decision making on ecosystem strategy

ecosystem modelling

ecosystem value proposition customer oriented solution

how the supply chain is affected by the change of value

who is the goal framed from?

economic societal value

## D

# Interview Guide

Interview guide for semi-structured interviews with LIFE project partners.

### Interview Guide

#### Introduction

- 1 How did you arrive to the LIFE project?

#### Taxonomy of LIFE

##### Purpose

- 2 How would you describe what LIFE platform does?
- 3 How would you describe what LIFE social platform aims to do?
- 4 What is LIFE platform biggest offering?
- 5 What makes LIFE proposal unique? different from the rest?
- 6 What is the reason for existence of LIFE platform? Why should we care?
- 7 What makes the LIFE platform different and innovative?
- 8 What is most important for LIFE shareholders?

JOBS

PURP

PURP

PURP

#### Taxonomy Business Model

- 9 What is the good LIFE platform produces?
- 10 What is the content of the service LIFE is offering?

#### Value Mapping Tool

- 11 Stakeholder group ()
- 12 What is the current role of Alliander within the LIFE project ( Package 4 Next-Generation Grid)
- 13 What role will Alliander play once LIFE platform is **launched**?

#### Value Created

- 14 Why will the customer buy the services offered?
- 15 Besides financial benefits, what are other opportunities that being part of LIFE will bring to *partners*?
- 16 What possible benefits tangible and intangible are created?

GAIN

#### Value Destroyed

- 17 What are the negative outcomes of the business for any stakeholder?
- 18 What are the impacts generated by each of the key suppliers/ partners/ distributors/ consumers?

#### Value Missed

- 19 How might LIFE be missing an opportunity to capture value?
- 20 Are assets under-utilised?
- 21 What are major challenges that LIFE faces now?

#### New value opportunities

- 22 How has the new EU regulations on environmental and social practices impact LIFE?
- 23 What new positive value might the network create for its stakeholders through introducing new capabilities, activities, relationships?
- 24 Imagine we have asset owners on board
- 25 Imagine we have Vve's on board

#### What do we already know?

- 26 What are relevant trends or references in the market that might drive 'potential asset owners' that I should consider?
- 27 Who would you suggest having a conversation with?
- 28 Who is a competitor of the LIFE platform?

CON

CON

CON



## D

# Interview Guide

Interview guide for semi-structure interview with JCA, LIFE project partner.

### Intake Interview Guide

#### Introduction

- 1 How did you arrive to the LIFE project?
- 2 Why did JCA joined LIFE project?

#### Purpose

- |      |  |
|------|--|
| JOBS | 3 What does JCA prioritizes as a business?                       |
| JOBS | 4 What is the ultimate goal for JCA to provide to its customers? |
| JOBS | 5 What makes JCA unique? different from the rest?                |
| JOBS | 6 What is most important for JCA shareholders?                   |

#### Energy Assets

- 7 What is an energy asset? How long is the life of an asset?

#### Benefits for Battery

- |      |   |
|------|---|
| GAIN | 8 How did JCA made the decision to own a battery? (context/ stakeholders) (investment that pays off)    |
| GAIN | 9 Why is it attractive to own a battery (generate/ transmit/ distribute)? What are the costs/ benefits? |
| GAIN | 10 How does the battery allow JCA to use their energy more intelligently?                               |

#### Benefits

- |      |  |
|------|--|
| GAIN | 11 How has owning a battery change JCA as a company?   |
|      | 12 What is the role of <b>Amsterdam Energy ArenA</b> ? How does JCA manages this businesswise? |
| GAIN | 13 How has owning a battery change how JCA is <i>perceived by your customers</i> ?             |

#### Values (Why is it important to you?)

- |      |   |
|------|---|
|      | 14 Why would you say social responsibility is an important core value?                    |
| CON  | 15 Besides money, what other opportunities will being part of LIFE bring to JCA?          |
| CON  | 16 What are the ecological or environmental actions JCA is taking to preserve the planet? |
| PAIN | 17 How has the new EU regulations on environmental and social practices impact JCA?       |
| PAIN | 18 What are the procedures JCA has taken to comply with the regulations?                  |
| PAIN | 19 What are major challenges that JCA faces now?  |

#### Other Stakeholders

- |      |   |
|------|---|
| GAIN | 20 What would you say motivates other companies to become an asset owner?                       |
|      | 21 As someone who has experience, What are the challenges for a company to become part of LIFE? |

#### Supply chain

- |      |  |
|------|--|
| JOBS | 22 <b>How</b> would the battery contribute to balance supply and demand of energy?           |
| JOBS | 23 How has owning a battery change the relationship with energy providers, DSO?              |
|      | 24 Which partnerships would be essential for JCA battery to deliver <i>value to others</i> ? |
|      | 25 Which role on the value chain would JCA battery focuses on in LIFE?                       |

#### Energy Markets



## D

### Interview Guide

- 26 What are the economic value interests in energy markets, from the grip operator perspective?
- 27 What is the Primary Control Reserve market? Revenue will largely be generated by selling the energy storage capacity on the

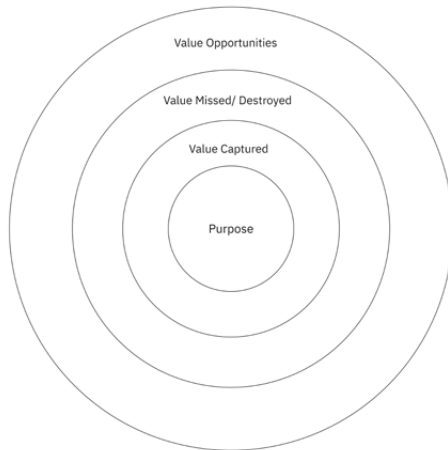
#### NEXT STEPS

- CON 28 What are relevant trends or references in the market that might drive 'potential asset owners' that I should consider?
- CON 29 Who would you suggest having a conversation with?
- CON 30 Who is a competitor of the LIFE platform?

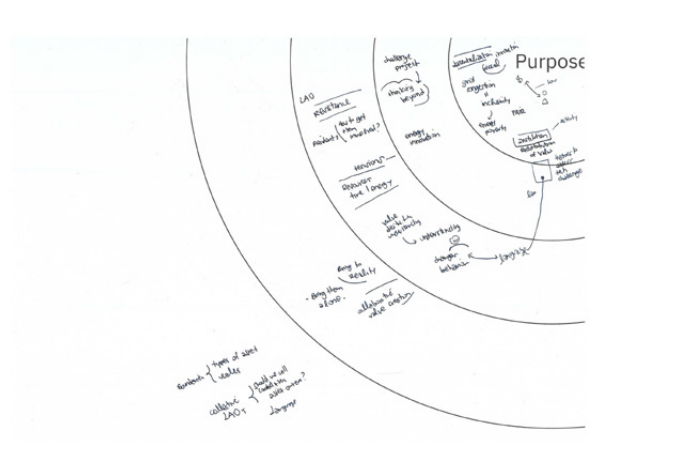
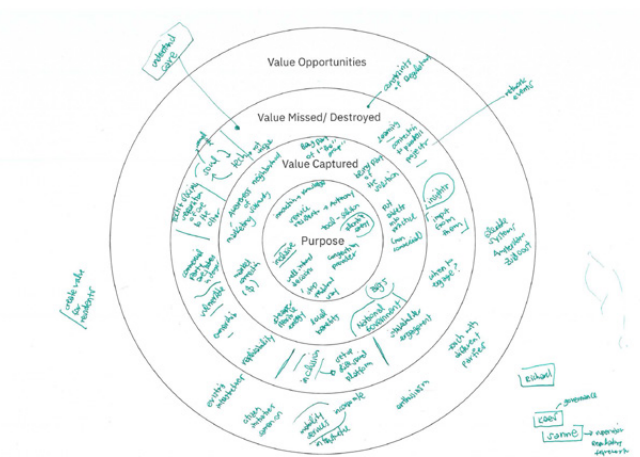
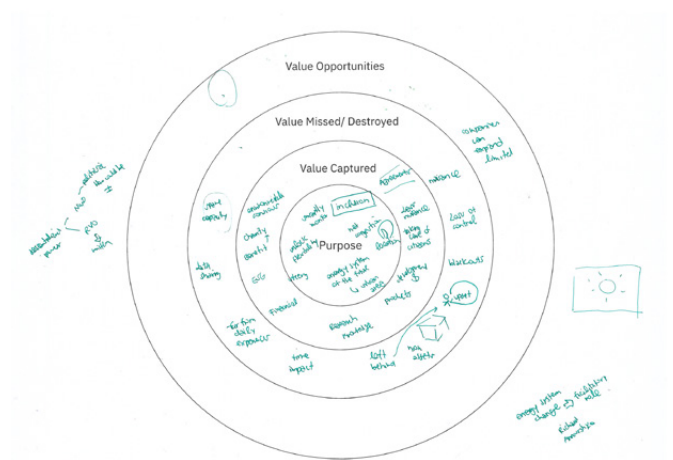
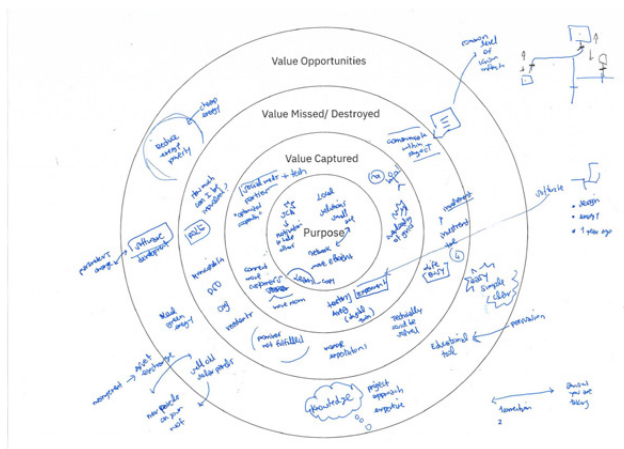
#### About other LAO

- 31 ING is not a good neighbor, net congestion for a bank might not be an issue'
- 32 Have you had a conversation with 'Ziggo Dome'?

Value mapping tool adapted for interview note-taking (Bocken, N. et al, 2013).

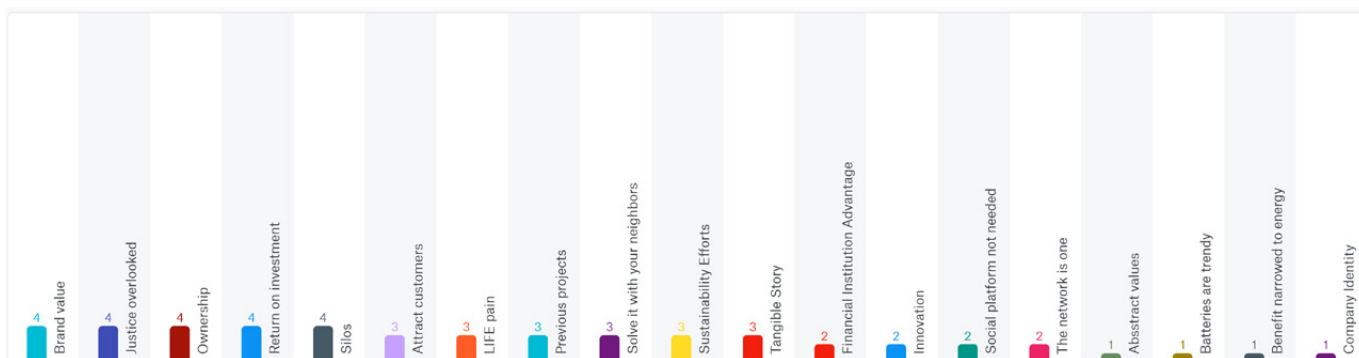
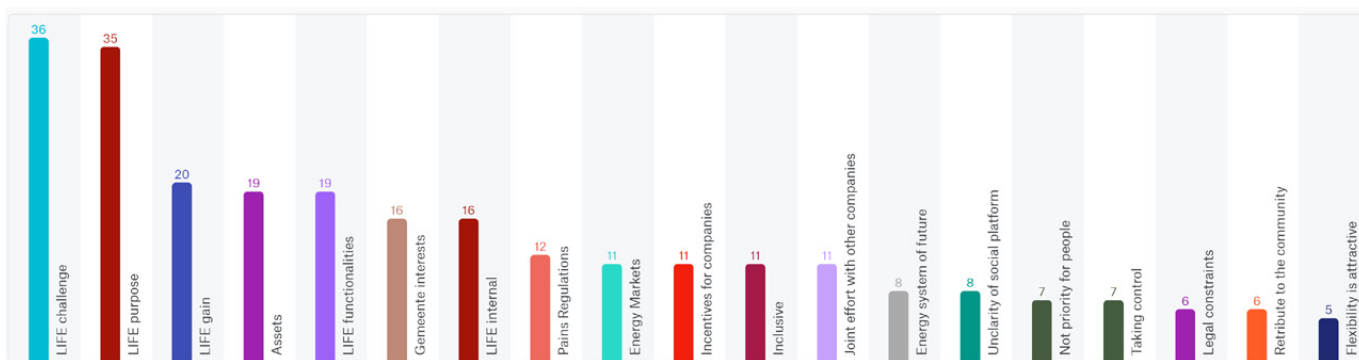
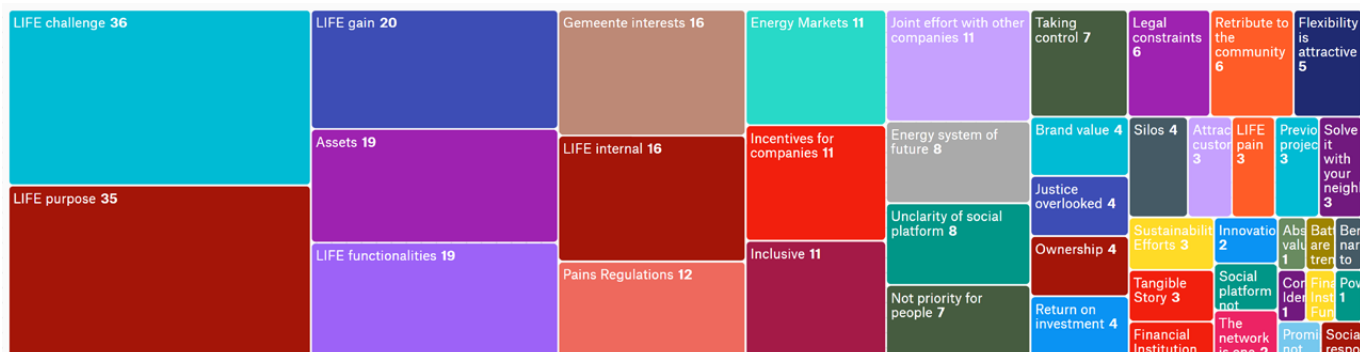


Interviewer notes during semi-structured interviews.



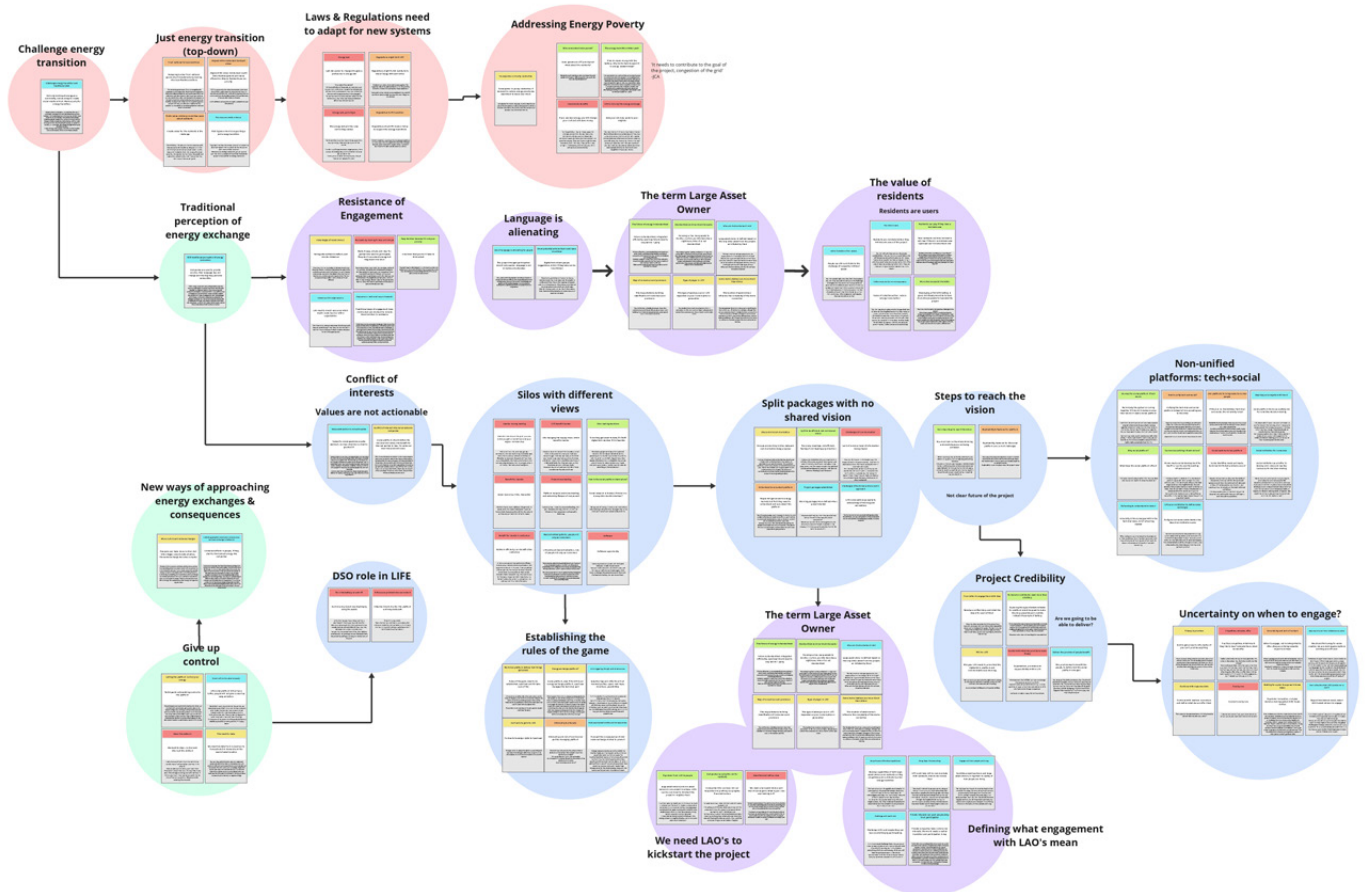
## F Thematic Analysis & Clustering

Thematic analysis conducted using Atlas.ti, for semi-structure interviews with LIFE project partners.

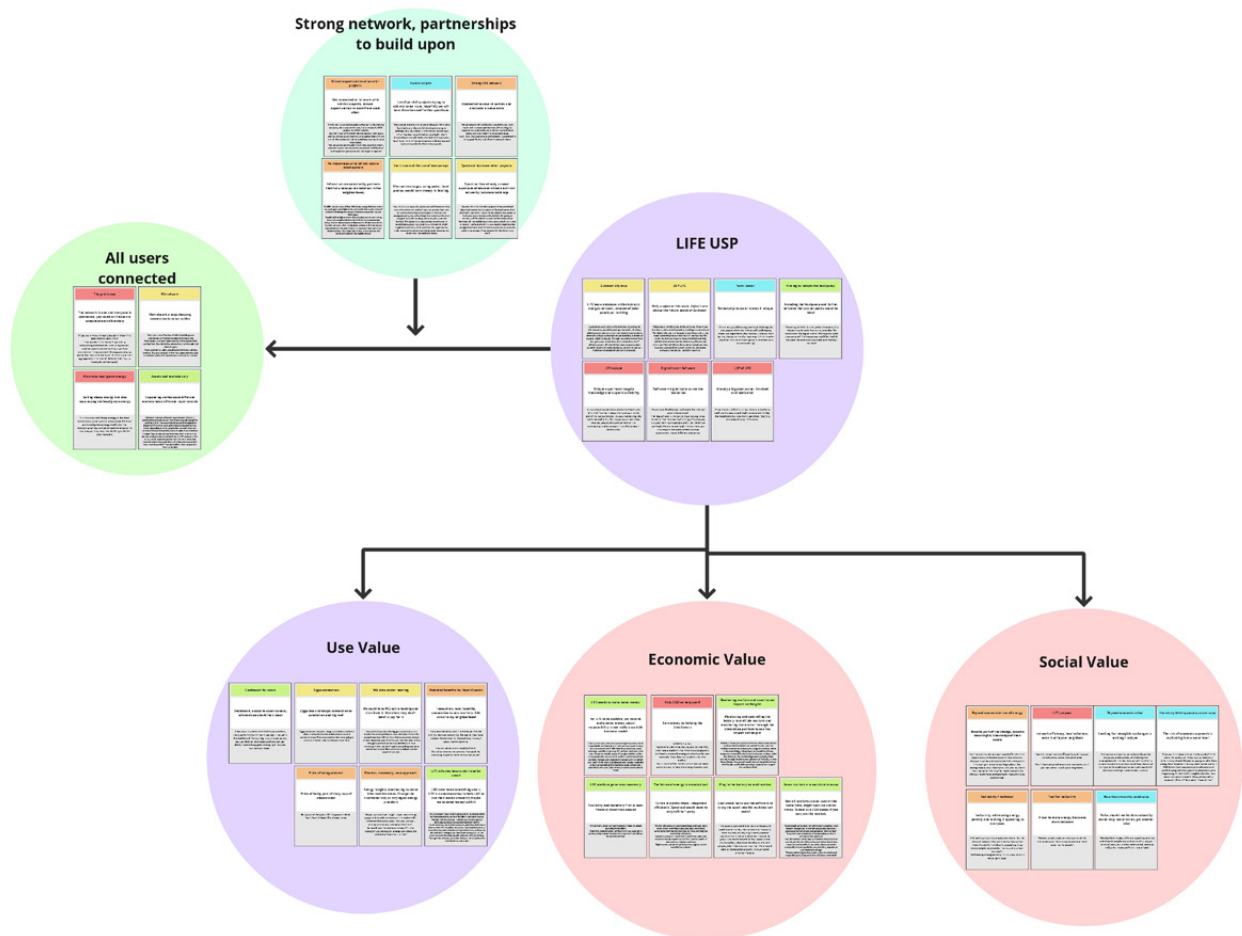


## F Thematic Analysis & Clustering

After conducting a thematic analysis, statement cards and generative clustering were used to identify the most prominent themes and patterns.



## F Thematic Analysis & Clustering



# F

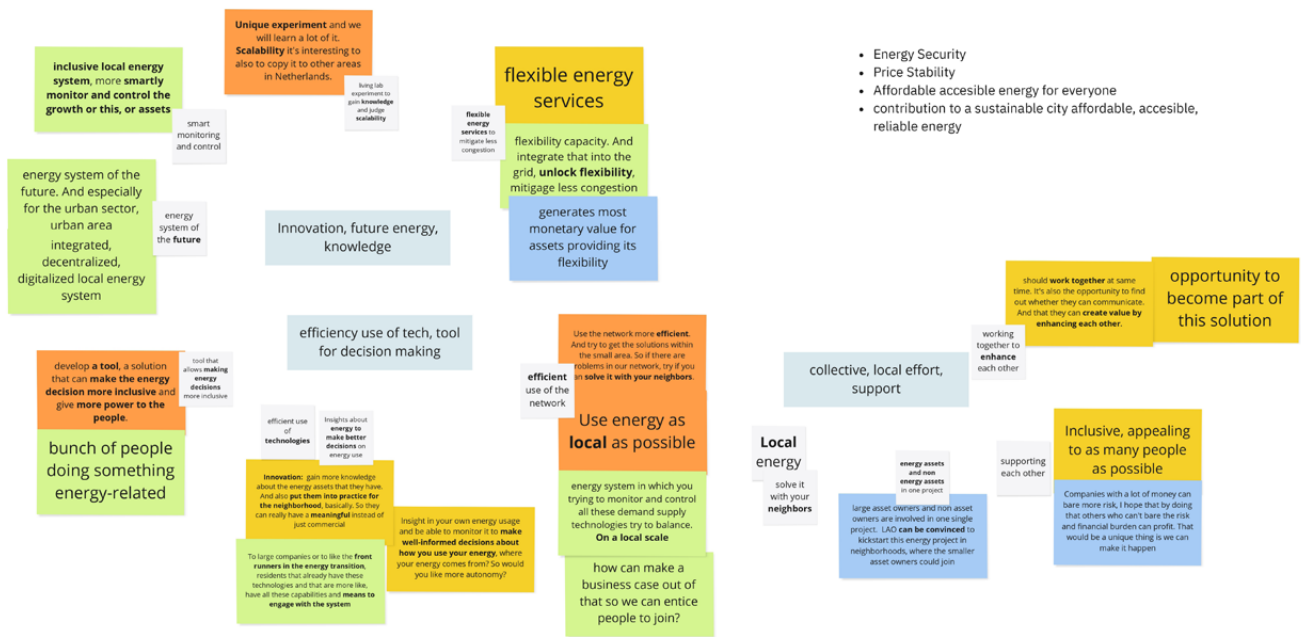
## Thematic Analysis & Clustering

To prepare for the second co-creation session related to value opportunities. Additional clustering was performed in relation to the LIFE project's purpose, the value missed, and value opportunities depicted on "value opportunity cards."

### Purpose

What is the primary reason(s) for the existence of your business and its network of stakeholders including the value chain?

Why should any of your stakeholders, particularly the customer, care about the existence or continuation of the business network?



- Energy Security
- Price Stability
- Affordable accessible energy for everyone
- contribution to a sustainable city affordable, accessible, reliable energy

### Value Missed

What are the negative outcomes of the business for any of your stakeholders?

This phase aims at eliminating the value destroyed by the business by identifying and solving conflicts between stakeholders, utilising the value currently missed for the business, and searching for opportunities to create entirely new value. This step is usually followed by a 15 min coffee break, which also allows for some buffer for groups lagging behind.



# G

## Co-creation 1 Session — Set-up

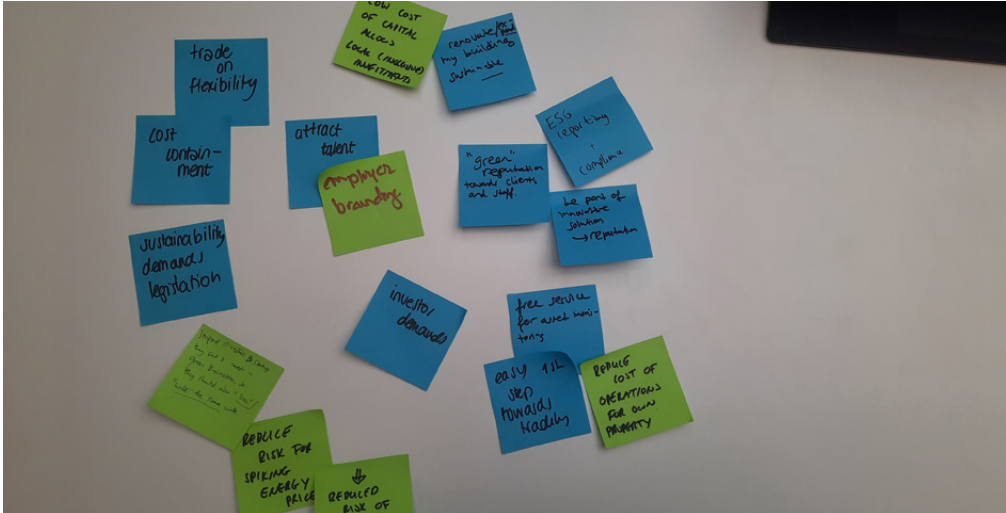
Goal: Idea generation of potential value opportunities for large asset owners in the LIFE platform project. Making the first attempt to stop calling them large asset owners and classify them in three target groups.



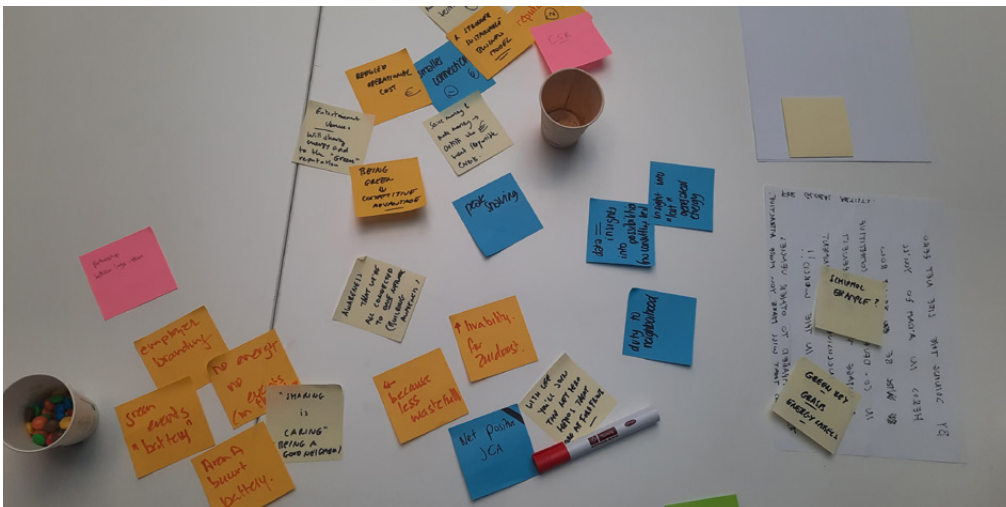


## H

Collaborative Brainwriting activities from the session.



## Financial Institutions



## Entertainment Venues



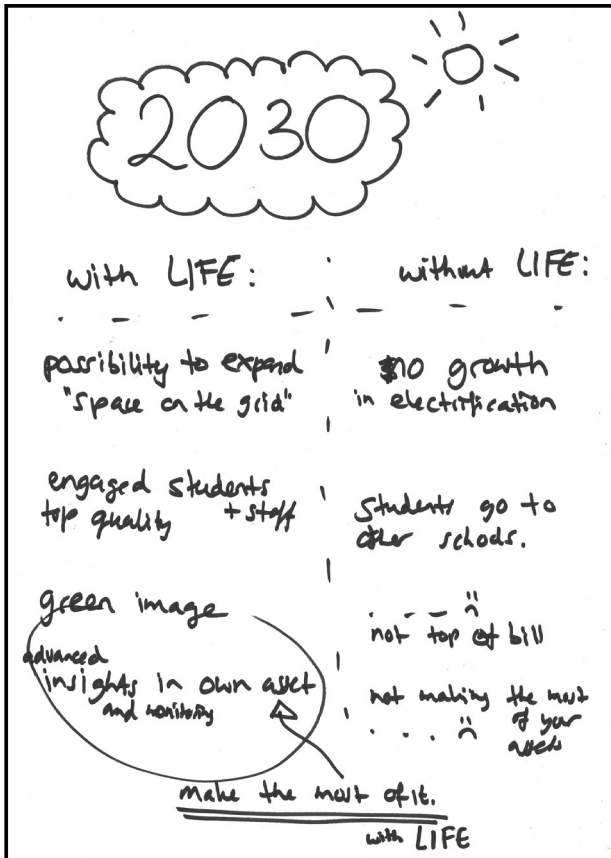
### Educational Institutions



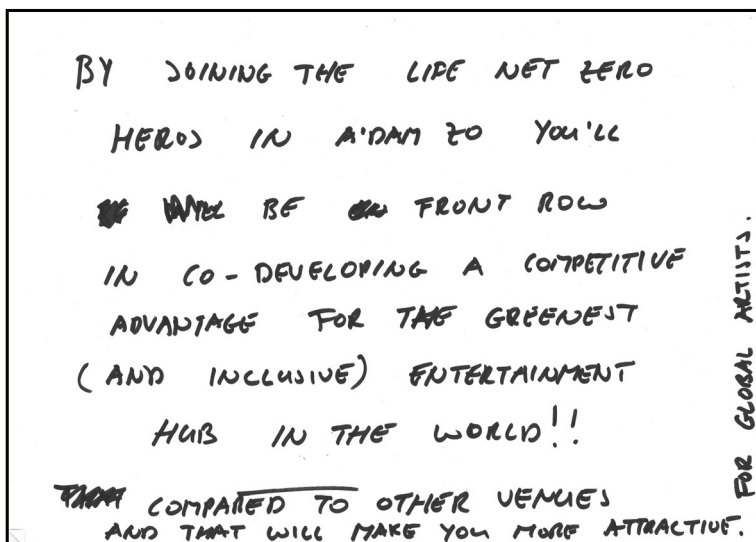
# H

## Co-creation 1 Session — Activities

Elevator Pitch activities from the session.



Concept 01- Educational Institutions



Concept 02- Entertainment Venues

# H

## Co-creation 1 Session — Activities

Collaborative Brainwriting activities from the session.

### Financial Institutions



### Entertainment Venues



### Educational Institutions

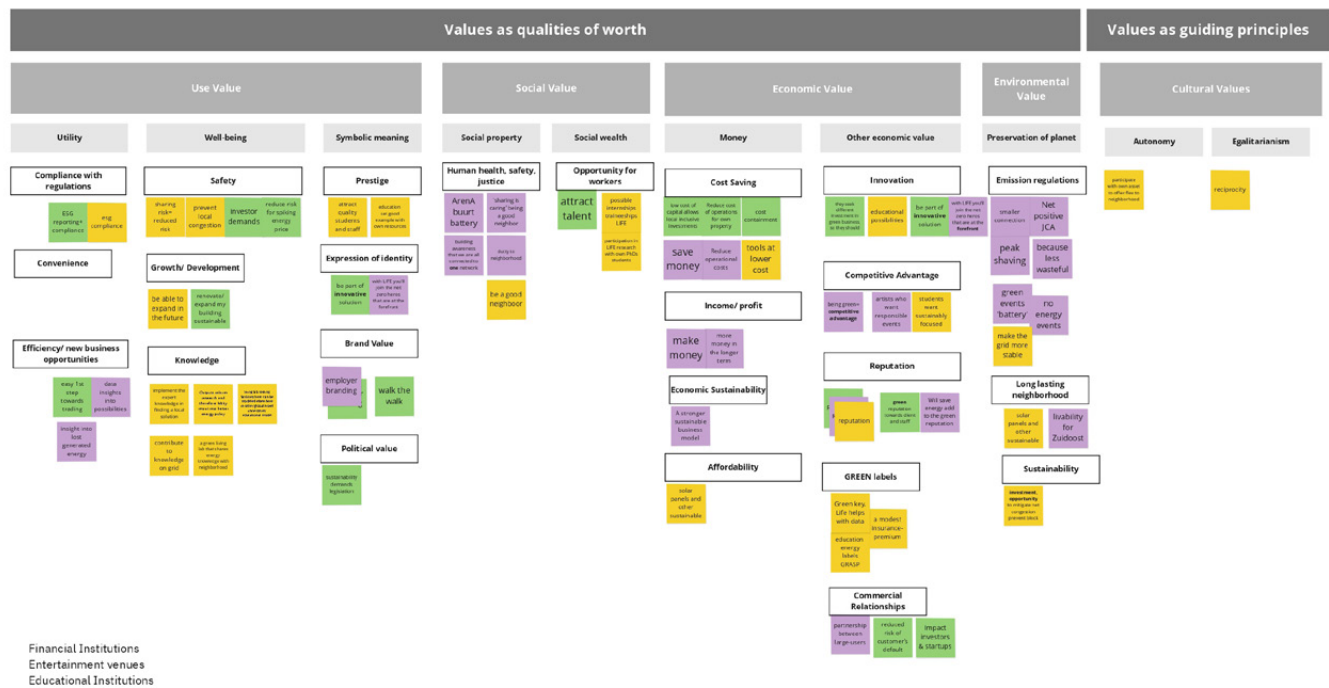


# I

## Co-creation 1 session — Analysis/ Clustering

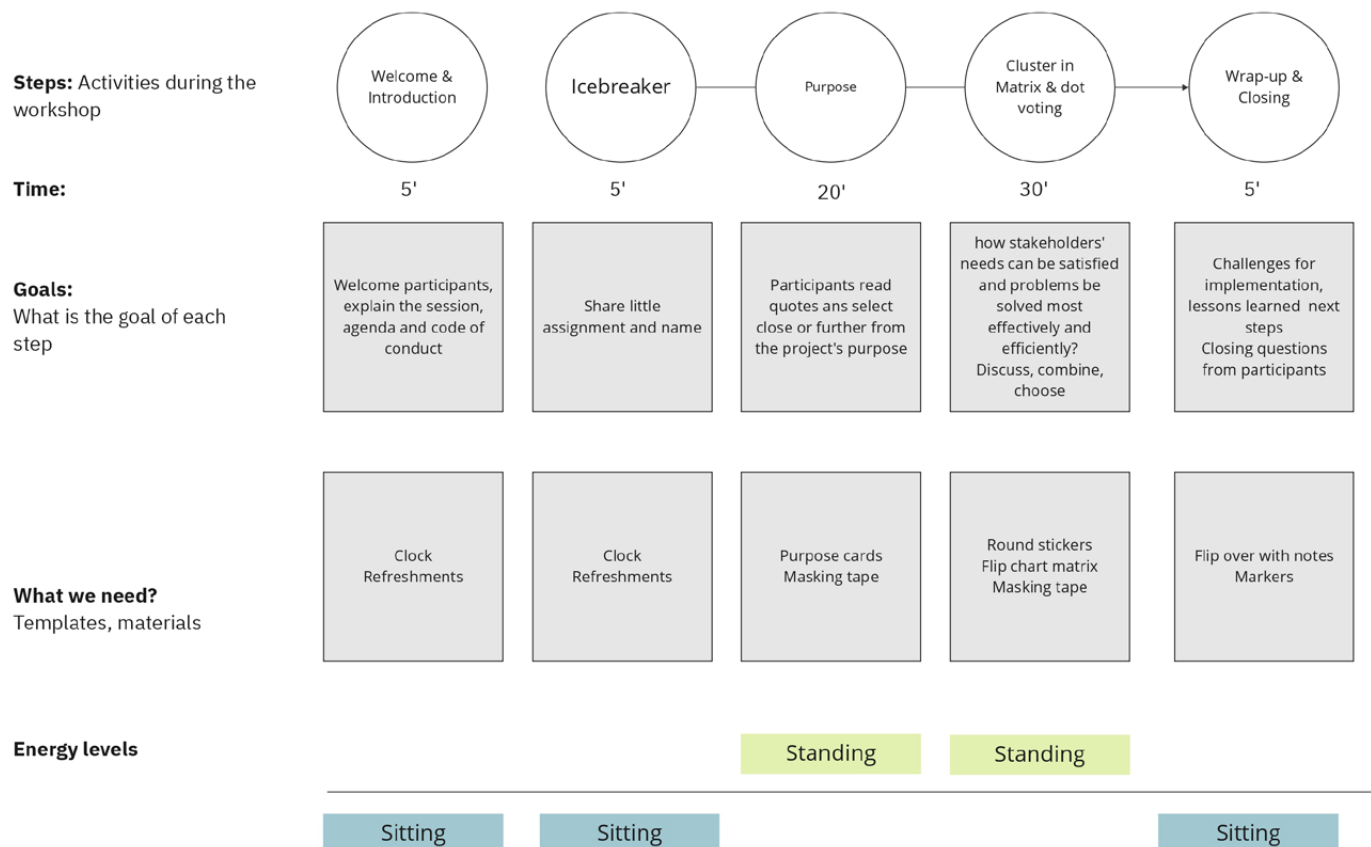
Using Bos-de Vos, M. (2020), Framework for designing for divergent values, the ideas from the session were clustered.

### Clustering



## J Co-creation 2 Session — Set-up

The goal of the session was to discuss and agree on the purpose of the LIFE project. In addition, the session aimed to assess the value opportunities for LAOs.



## K

### Co-creation 2 Session — Visuals

Modified extracts from semi-structured interviews discussing the purpose of the LIFE project.

# Purpose

Work together to **create value** by enhancing each other

**Smartly monitor** and **optimize** energy assets

Large companies to be **front runners** in the energy transition

Residents to **develop capabilities** to **engage** with energy systems

Inclusive local energy system to enable **autonomy**

Living lab that explores the **energy system of the future** in an urban area

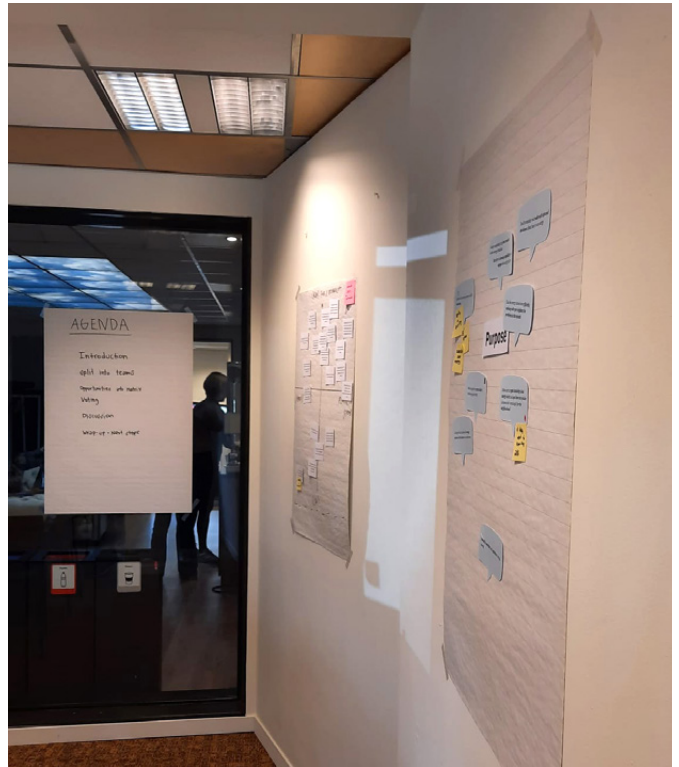
Tool to monitor and **make well-informed decisions** about how to use energy

Allow users to **gain knowledge** about **energy assets** and **put them into practice** (commercial+ meaningful) **for the neighborhood**

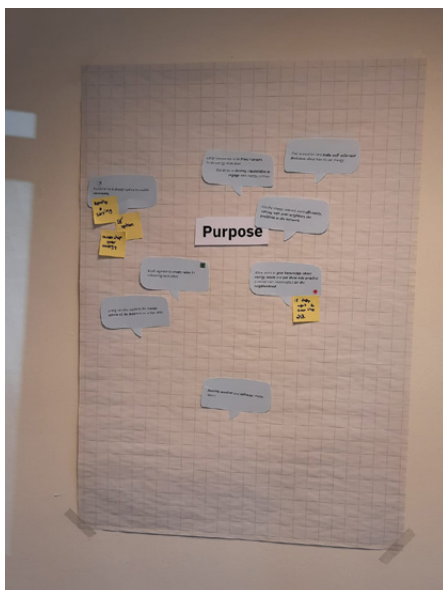
Use the energy network more **efficiently**, **solving with your neighbors** the **problems in the network**

## L Co-creation 2 session — Activities

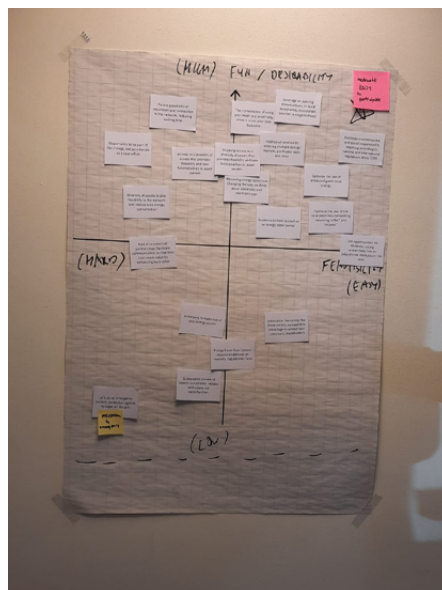
Summary of the session's activities: the purpose canvas and the impact/feasibility matrix.



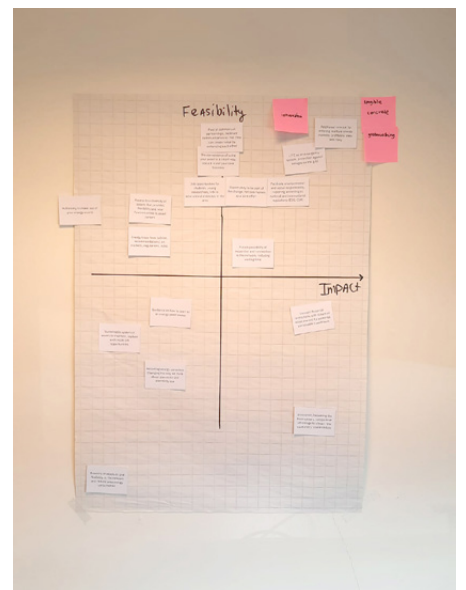
Canvas session set-up



Purpose canvas



Feasibility/impact matrix Group 01



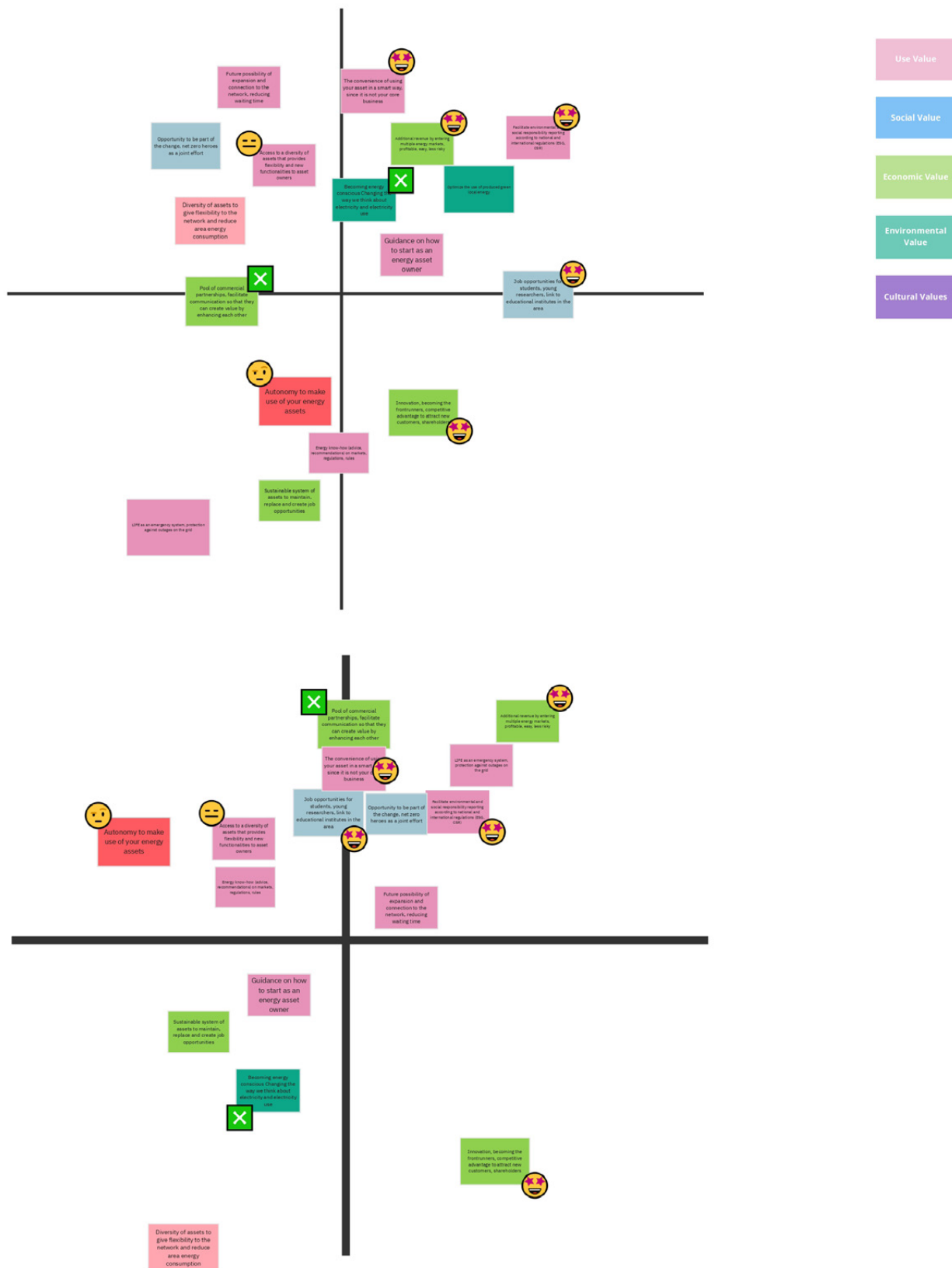
Feasibility/impact matrix Group 02



# M

## Co-creation 2 — Analysis/ clustering

Analysis of impact/feasibility matrix, categorizing ‘value opportunity cards’ based on Bos-de Vos (2022), divergent values framework.

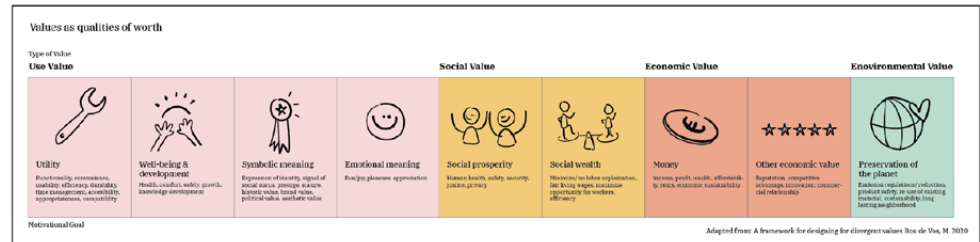
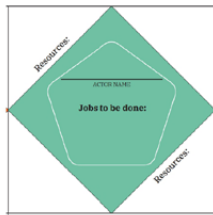


# N

## Tool Iteration 1

Initial tool iteration, including process and cards.

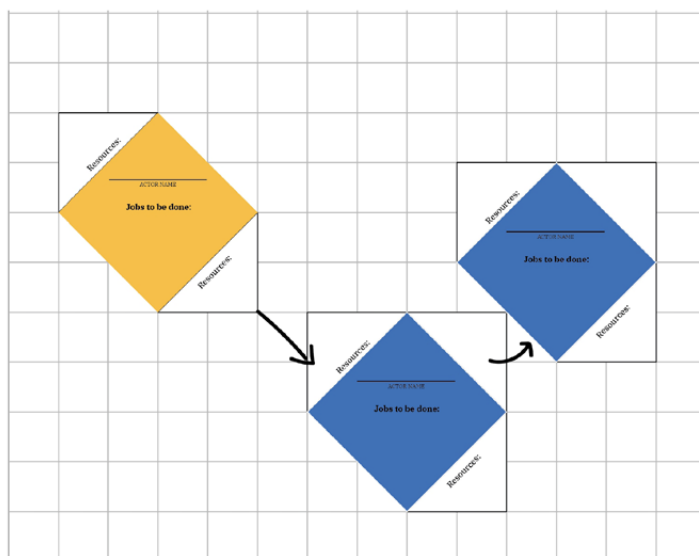
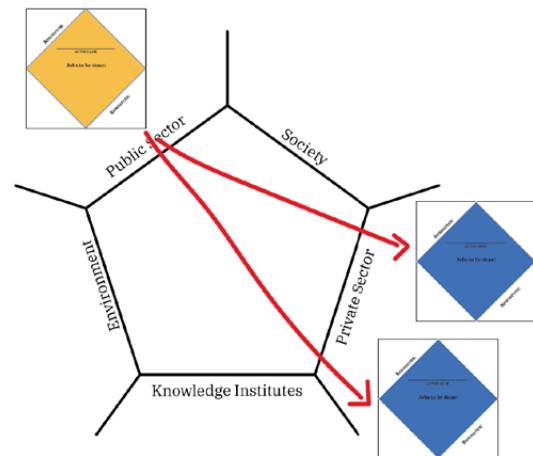
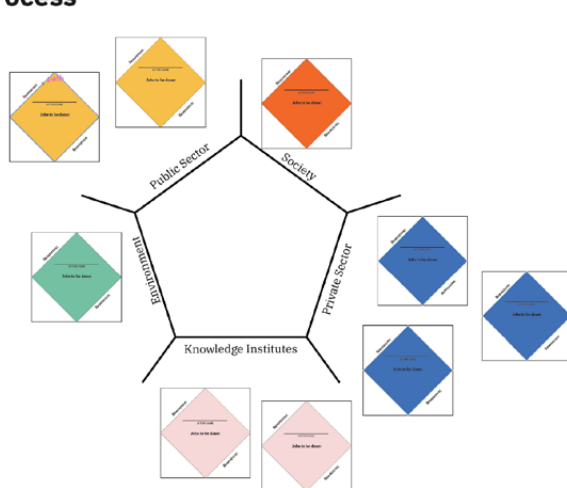
### Cards



### Actor card

### Process

### Value compass



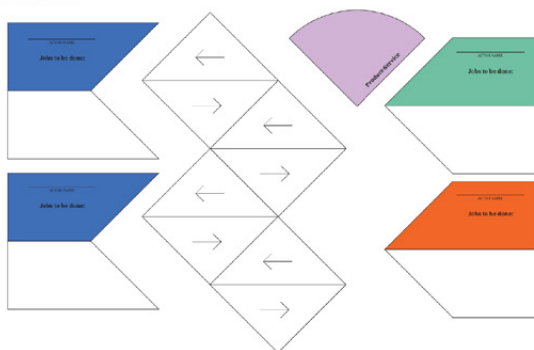


# O

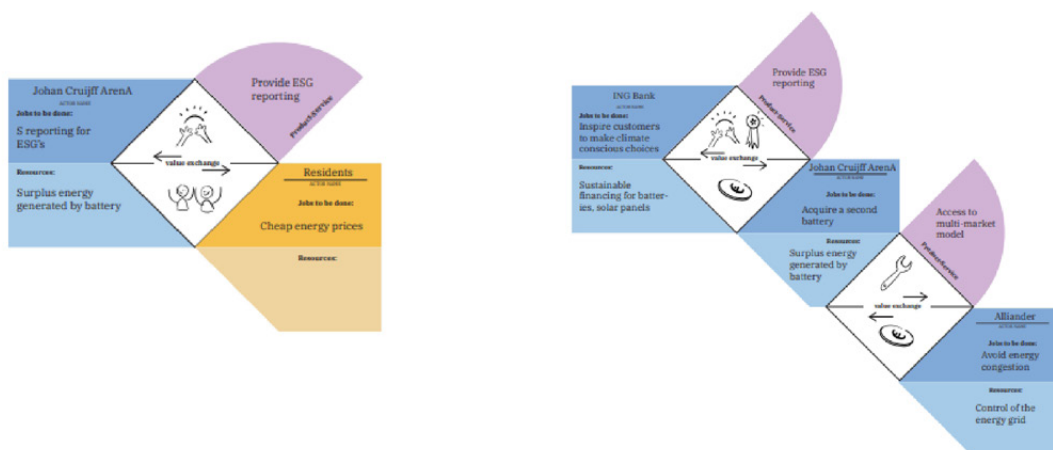
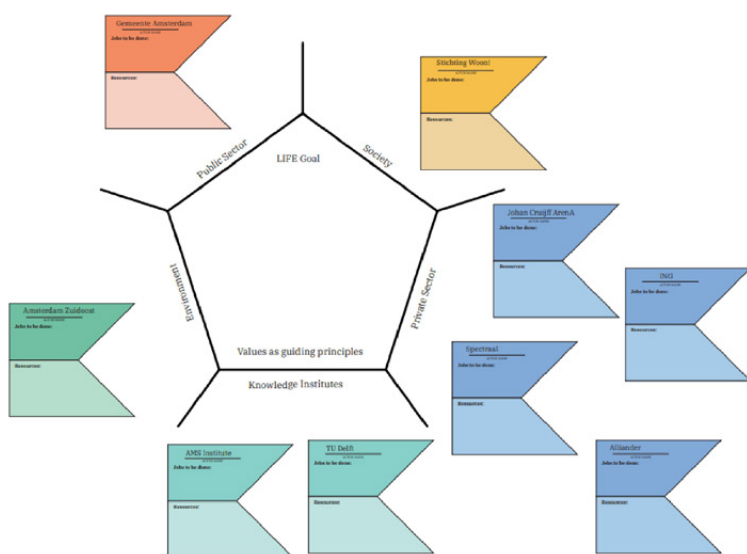
## Tool Iteration 2

The second iteration of the instrument incorporates cards and a process for card assembly with already filled values.

### Cards



### Process

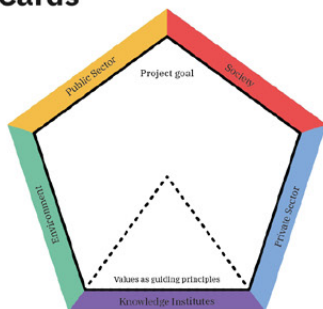


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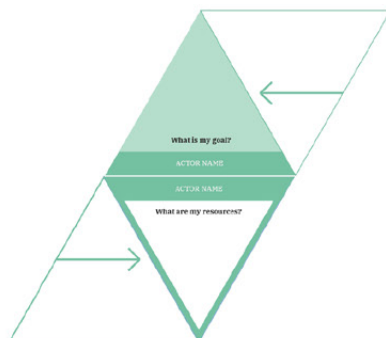
## Tool Iteration 3

The tool's third iteration, including cards and process.

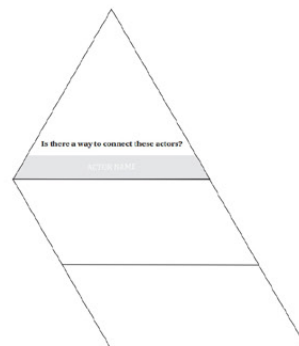
### Cards



Purpose Helix



Actor cards



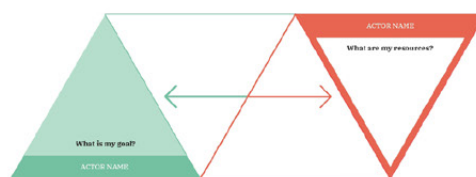
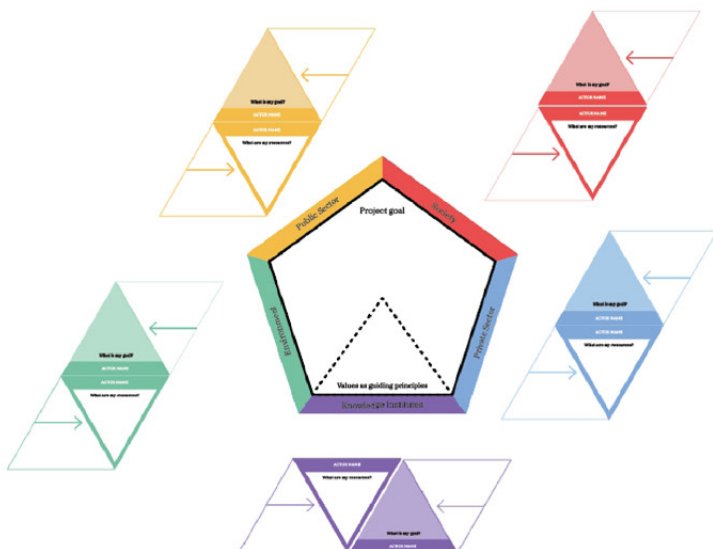
Wild card

Values as qualities of words

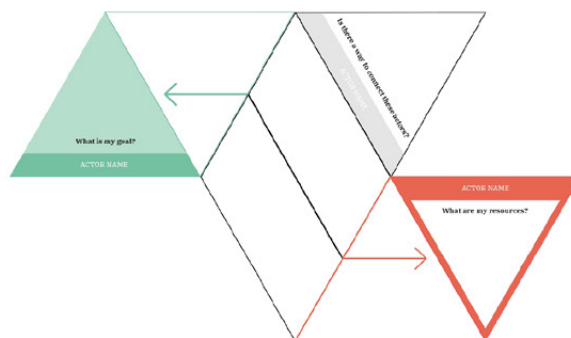
Type or name	Use Value	Social Value	Economic Value	Environmental Value
Utility	Icon: Wrench and screwdriver	Icon: Two people shaking hands	Icon: Euro coin	Icon: Leaf
Well-being & development	Icon: Lightbulb	Icon: Group of people	Icon: Five stars	Icon: Globe
Knowledge & innovation	Icon: Open book	Icon: People in a meeting	Icon: Money bag	Icon: Water drop
Resilience & sustainability	Icon: Recycle symbol	Icon: People in a meeting	Icon: Money bag	Icon: Water drop

Value compass

### Process



Constellation simple



Constellation wild card

## Q Pilot session — Set-up

The tool validation was piloted with design students in order to assess the session's materials, structure, and evaluation.

**Location:** Huis van de Toekomst

**Goal:** Test and evaluate value ecosystem tool

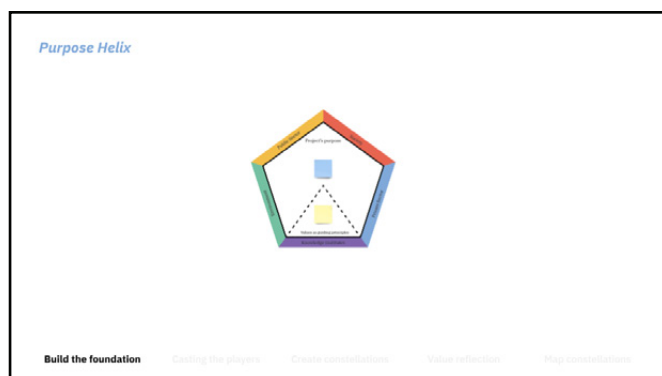
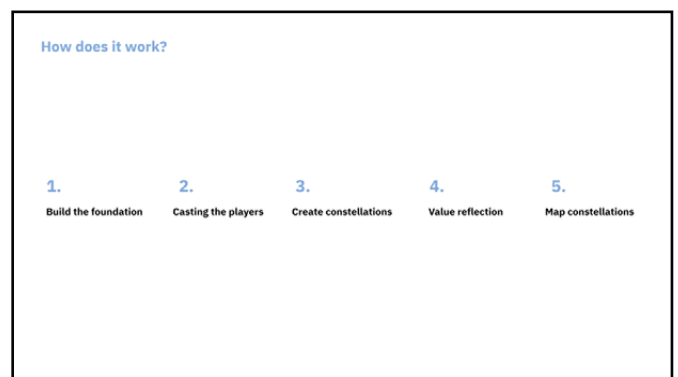
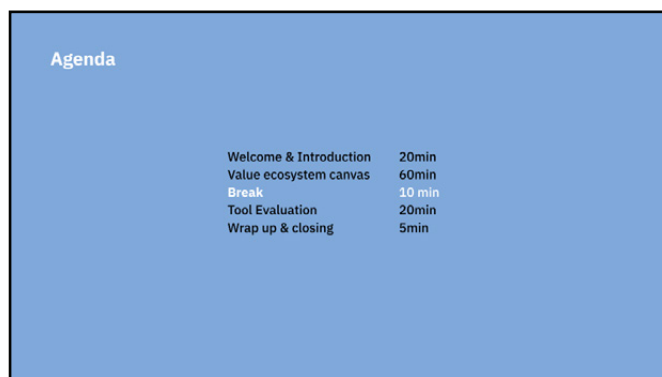
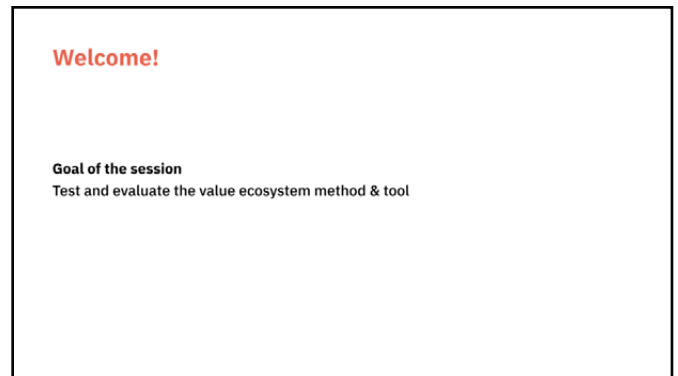
**Time:** 2hrs

Time	Duration	Activity	Who	To do	Material
11:00	5	Welcome & Introduction	Dafne	-Start audio recording	- <i>Consent forms</i> -Laptop (support slides) -Refreshments -Audio recording
11:05	10	<b>Context &amp; Tool Introduction</b> Setting the scene -Introduce tool with example -Present previous steps, build the foundation, casting the players Everything clear? -Explain <i>create constellations</i> step Split in two groups	Dafne	-Distribute <i>feedback canvas</i> to gather notes on steps that will not be addressed in the workshop	-Laptop (support slides) -Refreshments - <i>Feedback canvas</i> -Post its -Markers -Audio recording
11:10	5	Short discussion, solve doubts	Together	-Add/adjust major changes	-value ecosystem canvas: -Purpose helix -Actor cards
11:15	5	Icebreaker	Together	*ecosystem metaphor	
11:20	60	<b>Value ecosystem canvas</b> 10min-Read through actor cards 25min-Create constellations 25min-Value reflection	They	-Start timer	-Actor cards -Value compass -Value dice -Post-its -Small post-its -Markers -Mobile for time
12:20	10	Break	Dafne	-Collect feedback forms	-Camera
12:30	20	<b>Tool Evaluation</b> Brief sharing Keep-kill-build Evaluation Form Peer feedback	They	-Distribute <i>Evaluation forms</i>	- <i>Evaluation form</i> -Pens/markers -Camera -Mobile for time
12:45	5	<b>Wrap up &amp; closing</b> Closing questions Next Steps Take pictures of materials	Dafne	-Collect evaluation forms	-Camera -Consent forms

# Q

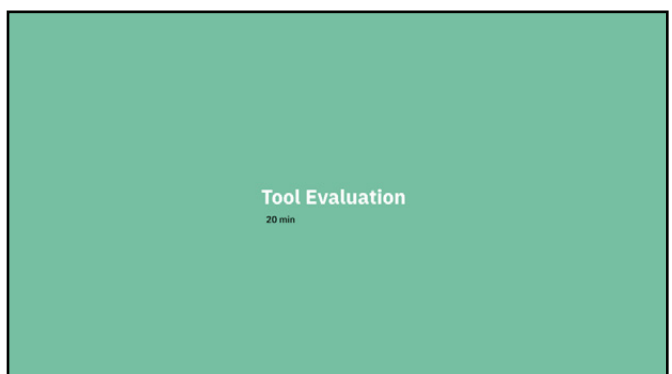
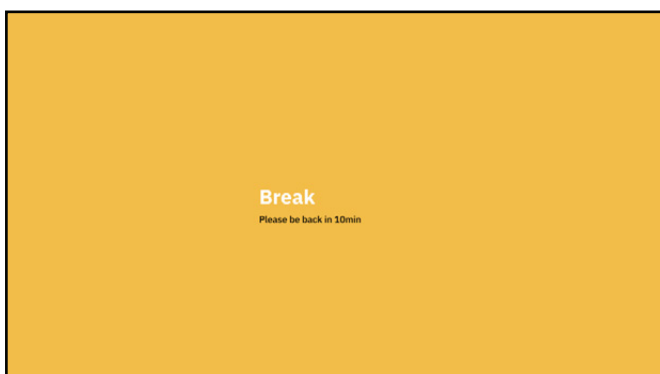
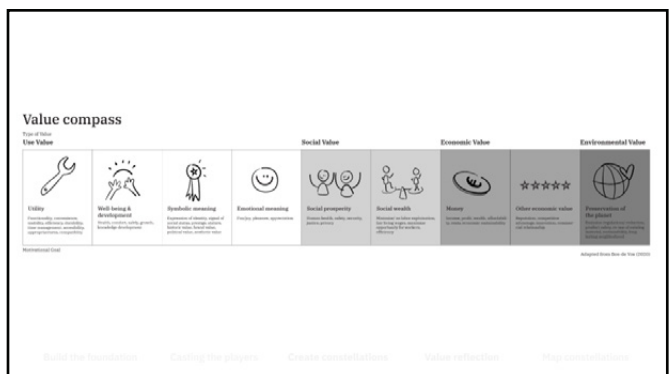
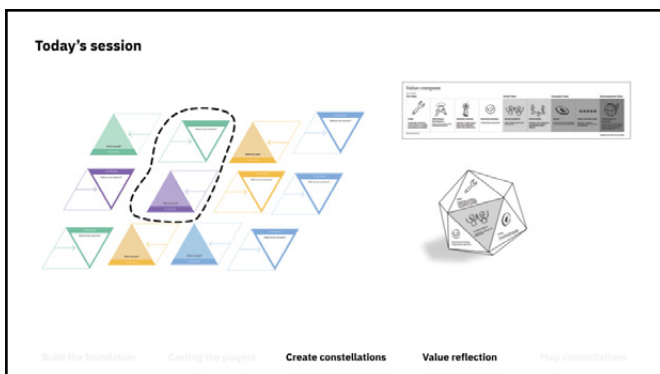
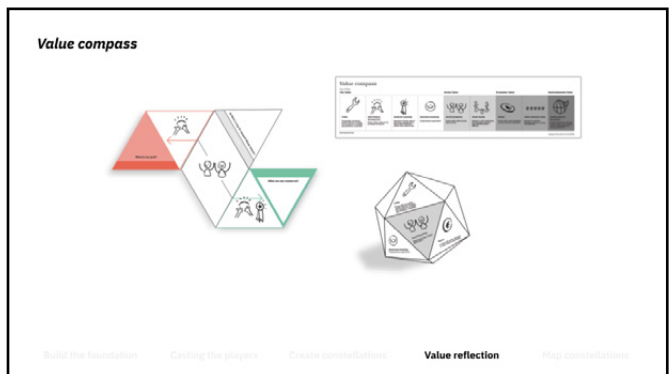
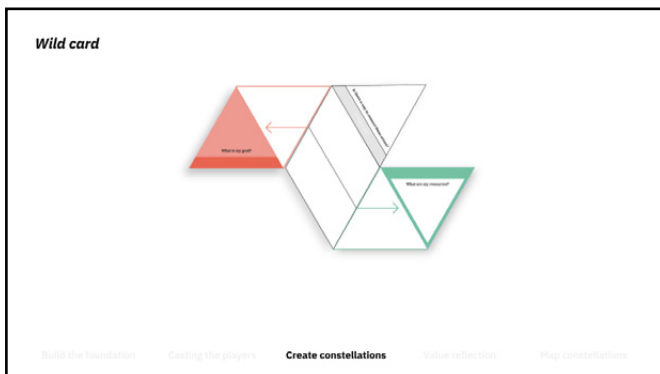
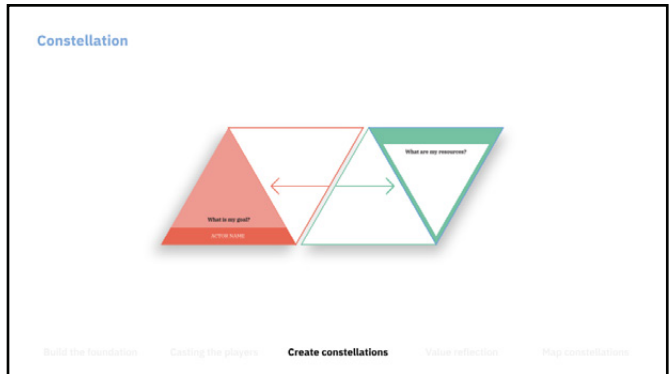
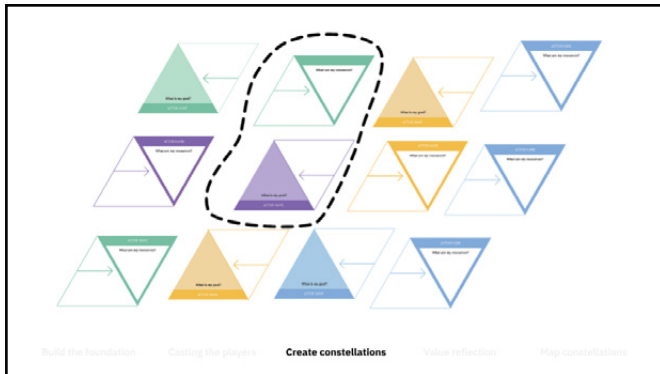
## Pilot session — Set-up

A set of slides used to facilitate the session.

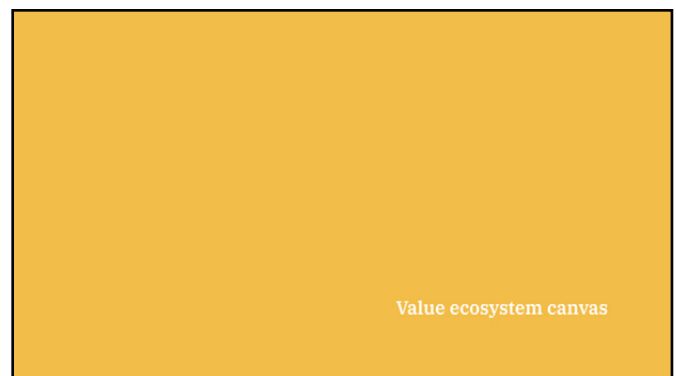
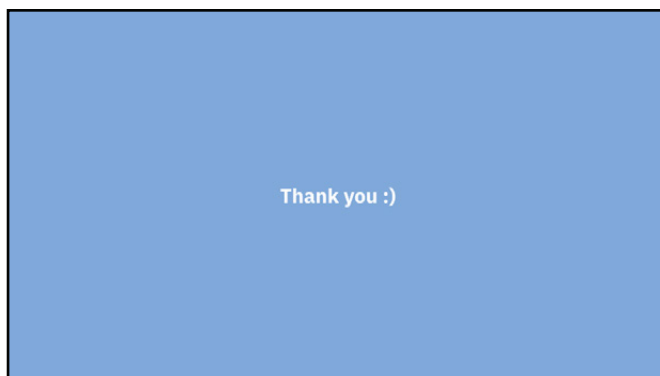
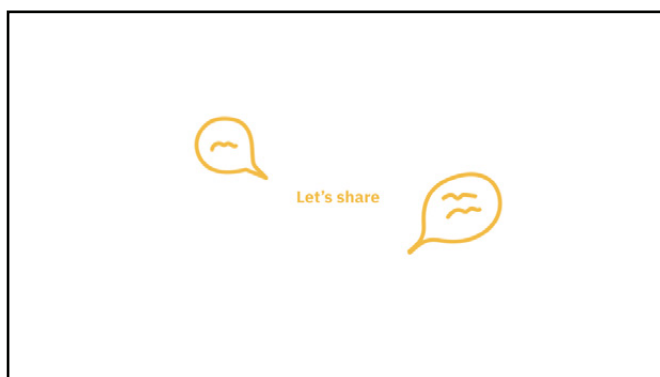
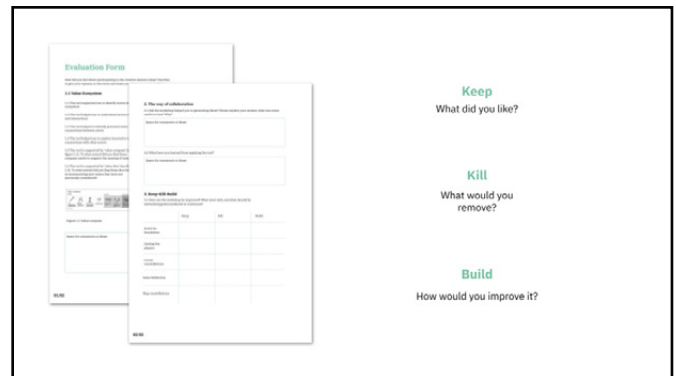
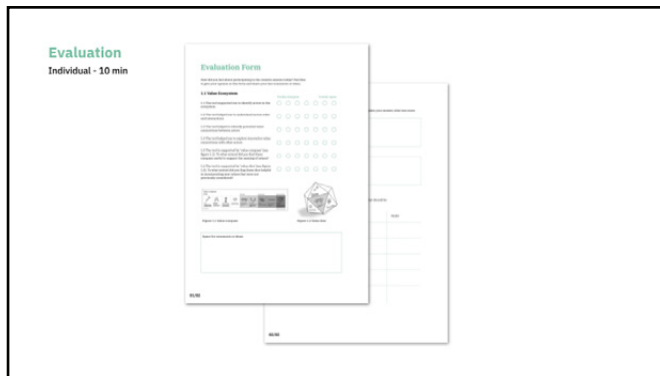


# Q

## Pilot session — Set-up



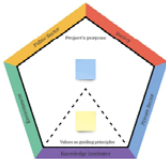




## Q Pilot session — Set-up



# R

## Pilot session — Facilitation Guide

Guide for pilot session including estimated time for each activity and facilitation questions.



Step No.	Step	Tool	Time	Description	Facilitation Guide
1	Setting the scene		10 min	Brief introduction to the tool alongside fully populated example	
2	Build the foundation		10min	Participants define the unit of analysis, may be a product, service or project. Using the <i>purpose helix</i> , participants agree on the purpose and establish values as guiding principles to guide actions within the ecosystem.	<b>Purpose</b> -What is the unit of analysis that we will focus on: product, service offering, project -What is the primary reason for the existence of our project and our (organization/consortium)? -Why should any actor care about the existence of (unit of analysis)? <b>Values as Guiding Principles</b> -What are the values act as our (unit of analysis) guides? -What are the values that guide our actions?
3	Casting the players		10min	The five segments of the helix are populated through facilitated brainstorming.	<b>Think about each of the actors:</b> -Who are the main actors in this ecosystem? -Which actors influence our operation? -Which actors have a similar purpose than us? -Who has an impact in our activities, maybe not directly?
			20min	Using the actors cards: actors goals, actors resources, participants fill in with actors more pertinent to the project's purpose.	<b>Actor's Cards</b> <b>Goals:</b> -What does this actor wants to achieve? -What are their objectives? -What can they be struggling with? <b>Resources</b> -Think about the resources each actor has (tangible/ intangible) Resources at the disposal of the actor to be utilized for value creation -Which facilities, materials, assets, does this actor has access to? -What are the competences, expertise, connections an actor has?
4	Create constellations		30min	Participants examine the actor's goals and resources and look for potential points of connection. The objective is to identify actors who could achieve their goals with another's resources.	<b>Constellations</b> Take a step back and look at the different actors goals and resources. Try to see potential ways in which they could help each other. Take one actor and see which potential resources could be connected -What if new capabilities or activities were introduced? -How might emerging technologies could offer potential solutions?
	Adding wild card		20min	After completing this exercise, the wild card is introduced. The wild card assists participants in determining whether there is a potential connection between the protagonists through the introduction of an activity, capability, product, or service.	<b>Wild card</b> Do not be constrained by rationality or practicality of ideas -How might new partnerships be created to fulfill an actors goals? -What if an additional partner was added? -What if they offer additional activities, products or services? Zoom out and look at all the actors: -Are there goals from one actor that influence the goal of another one?

Diverging

Reverging

# R

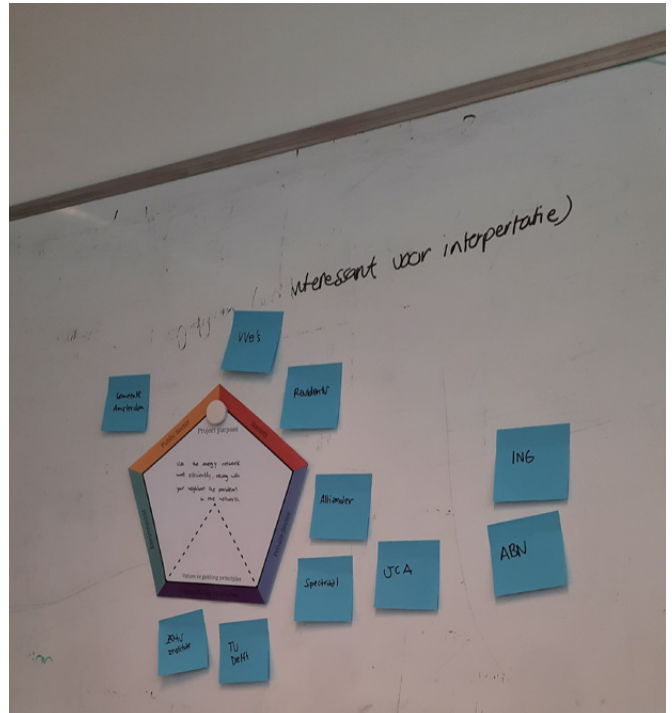
## Pilot session — Facilitation Guide

Reverging	<b>*Value Dice</b>	10min	After the initial round, participants are asked to consider the project's purpose and guiding values. In this step, the value dice is used to begin from a previously unexplored value and determine if there is an opportunity to promote it within the ecosystem.	<p>-If an actor provides X to another actor, what values do they receive in exchange? Try to go beyond the assumption that actor pursue economic value, what other types of value could be interesting to explore?</p> <p><b>Value Dice</b> Look at the values mapped in the ecosystem, and then circle back to the purpose helix and the values as guiding principles. Are there any values that are missing? Roll the value dice and pick a value type that hasn't been used yet. Evaluate the current constellations. -Could this value be promoted in the ecosystem in some way? -Who among the actors could influence another to promote this value?</p>
				
Reverging	<b>Map the constellations</b>	15min	Summarize constellations using the <i>value ecosystem proposition canvas</i>	For actor A that want to <b>goal</b> , actor B offers <b>wild card</b> , using actor C <b>resources</b> , achieving <b>value</b>
		20min	To look at all generated options holistically and concentrate on specific options, the step Map the constellations explores the feasibility and originality of constellations by plotting them in a C-Box.	Let's plot the constellations in the matrix with the summarized statements. -Is there a particular area on the matrix which needs further exploration?
Converging	<b>Define interventions</b>	15min	Participants define first interventions that they can take, leading to the potential involvement of an additional stakeholder or value exchange in the project. To reduce uncertainty in the value exchange, it is necessary to evaluate the assumptions outlined in the value ecosystem canvas.	Using the constellation map as inspiration, let's use post-it notes to ask ourselves: 'What can I do tomorrow to take a step further to achieve this constellation?' -Is there something I can look into, somebody I can question, or someone I can get in touch with? -How can we modify our approach to the project to make this happen?
		3hrs		



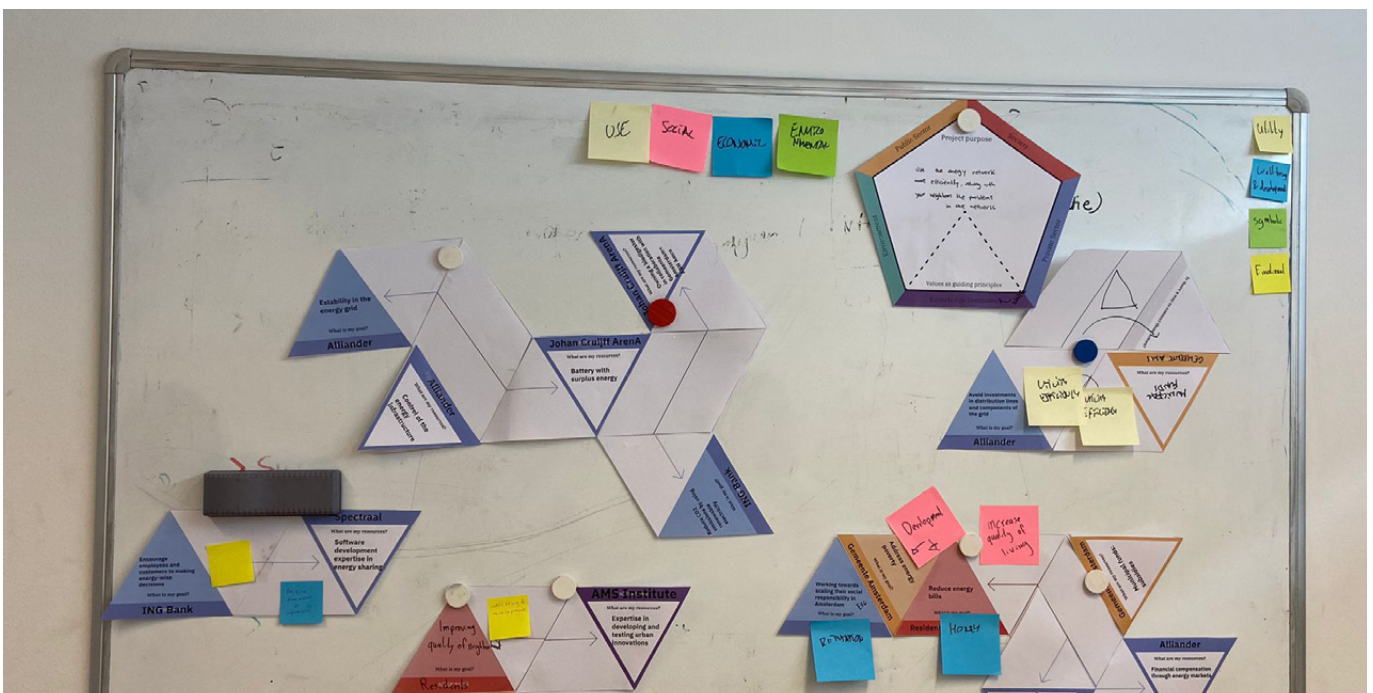
**S**

The session focused on the steps of creating constellations and naming values.



With actor cards on the table, participants seek for constellations.

## Purpose Helix with actors



### Constellations and value exchanges with colored post-its

# T

## Pilot session—Evaluation Form

Evaluation form used during pilot session to evaluate usability and tool's method.

## Evaluation Form

How did you feel about participating in the creative session today? Feel free to give your opinion in this form and share your last comments or ideas.

### 1.1 Value Ecosystem

	Totally disagree						Totally agree
1.1 The tool supported me to identify actors in the ecosystem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 The tool helped me to understand actors roles and interactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 The tool helped to identify potential value connections between actors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 The tool helped me to explore innovative value connections with other actors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The tool is supported by 'value compass' (see figure 1.1). To what extend did you find these compass useful to support the naming of values?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 The tool is supported by 'value dice' (see figure 1.2). To what extend did you find these dice helpful in incorporating new values that were not previously considered?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Figure 1.1 Value compass



Figure 1.2 Value dice

Space for comments or ideas:

# T

## Pilot session—Evaluation Form

### 2. The way of collaboration

2.1 Did the workshop helped you to generating ideas? Please explain your answer, what was more useful or less? Why?

Space for comments or ideas:

2.2 What have you learned from applying the tool?

Space for comments or ideas:

### 3. Keep-Kill-Build

3.1 How can the workshop be improved? What went well, and what should be started/stopped/considered or continued?

	Keep	Kill	Build
Build the foundation			
Casting the players			
Create constellations			
Value Reflection			
Map constellations			

Forms filled out by participants during the pilot session.

# Evaluation Form

How did you feel about participating in the creative session today? Feel free to give your opinion in this form and share your last comments or ideas.

## 1.1 Value Ecosystem

Totally disagree Totally agree

1.1 The tool supported me to identify actors in the ecosystem ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☒

1.2 The tool helped me to understand actors roles and interactions ☐ ☐ ☐ ☐ ☒ ☐ ☐ ☐  
*I don't know if there are perceived roles, possible roles vs actual roles.*

1.3 The tool helped to identify potential value connections between actors ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☒

1.4 The tool helped me to explore innovative value connections with other actors ☐ ☐ ☐ ☐ ☐ ☐ ☒ ☐  
*definitely explore innovative? IDK what innovative would mean in this context.*

1.5 The tool is supported by 'value compass' (see figure 1.1). To what extend did you find these compass useful to support the naming of values? ☐ ☒ ☐ ☐ ☐ ☐ ☐ ☐  
*shifted conversation from exchange of values, to categorisation itself.*

1.6 The tool is supported by 'value dice' (see figure 1.2). To what extend did you find these dice helpful in incorporating new values that were not previously considered? ☐ ☐ ☒ ☐ ☐ ☐ ☐ ☐  
*maybe colour coding could help find lower density value.*




Figure 1.1 Value compass




Figure 1.2 Value dice

Space for comments or ideas:

*split in two workshops.*

- 1. Ask about identifications / value exchange*
- 2. The actual stakeholders of value exchange can decide / on the categorisation of value.*  
*representative*

01/02

## 2. The way of collaboration

2.1 Did the workshop helped you to generating ideas? Please explain your answer, what was more useful or less? Why?

Space for comments or ideas:

Useful because the arrows make you believe in the possibility for connection, so then you find the connection.

2.2 What have you learned from applying the tool?

Space for comments or ideas:

There are many ways to collaborate.

## 3. Keep-Kill-Build

3.1 How can the workshop be improved? What went well, and what should be started/stopped/considered or continued?

### Feedback canvas

Write down your thoughts and initial ideas while you listen to the explanation. Is something not clear? What could be improved/stopped or considered?

	Keep	Kill	Build
Build the foundation	Focus	Value is guiding principle (beginning - need?)	unlike
Casting the players	* *		idea! - Example
Create constellations			
Value Reflection	↑ ↑ *		!
Map constellations			



# U

## Pilot session — Evaluation Form results

### Evaluation Form

How did you feel about participating in the creative session today? Feel free to give your opinion in this form and share your last comments or ideas.

#### 1.1 Value Ecosystem

- 1.1 The tool supported me to identify actors in the ecosystem
- 1.2 The tool helped me to understand actors roles and interactions
- 1.3 The tool helped to identify potential value connections between actors
- 1.4 The tool helped me to explore innovative value connections with other actors
- 1.5 The tool is supported by 'value compass' (see figure 1.1). To what extend did you find these compass useful to support the naming of values?
- 1.6 The tool is supported by 'value dice' (see figure 1.2). To what extend did you find these dice helpful in incorporating new values that were not previously considered?

Totally disagree

Totally agree



Figure 1.1 Value compass

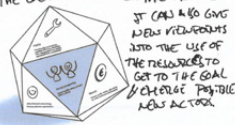


Figure 1.2 Value dice

Space for comments or ideas:

"I FEEL LIKE FORCE FIRING POSSIBLE VALUES IS VERY HELPFUL IN UNDERSTANDING THE DYNAMICS OF THE EXCHANGE BETWEEN THE ACTOR. IT CAN ALSO GIVE NEW VIEWS INTO THE USE OF THE RELATIONSHIPS TO GET TO THE GOAL & CHANGE POSSIBLE NEW ACTORS."

"I FEEL LIKE THE VALUES WILL BE HETEROGENEOUSLY USED. SOME ARE VERY RELEVANT WITH THE CONTEXT BUT OTHERS MIGHT BE TOO USED - CELEBRATED. COULD BE A GREAT INSIGHT FOR FUTURE WORK SESSIONS. HOW WOULD THE CHOSEN VALUES AFFECT HOW THE EXCHANGE IS UNDERSTOOD?"

INTERPRETATION

01/02

#### 2. The way of collaboration

2.1 Did the workshop helped you to generating ideas? Please explain your answer, what was more useful or less? Why?

Space for comments or ideas:

Some idea's I had heard already, like the knowledge sharing. It's nice to see it together.

2.2 What have you learned from applying the tool?

Space for comments or ideas:

The complexity of the goals connected was really nice to see. Also the easiness everyone made these connections.

#### 3. Keep-Kill-Build

3.1 How can the workshop be improved? What went well, and what should be started/stopped/considered or continued?

	Keep	Kill	Build
Build the foundation	principles goal		
Casting the players	colors		1 actor per person? familiarise with goals
Create constellations	really nice!		
Value Reflection	Values are created in interactions. Wasn't really intuitive to put it on the whiteboard		
Map constellations			

02/02

## Pilot session — Evaluation Form results

### Evaluation Form

How did you feel about participating in the creative session today? Feel free to give your opinion in this form and share your last comments or ideas.

#### 1.1 Value Ecosystem

1.1 The tool supported me to identify actors in the ecosystem

Totally disagree ☐ ☐ ☐ ☐ ☐ ☒ ☐ ☐ ☐ ☐ Totally agree

1.2 The tool helped me to understand actors roles and interactions

☐ ☐ ☐ ☐ ☐ ☐ ☒ ☐ ☐ ☐

1.3 The tool helped to identify potential value connections between actors

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☒ ☐ ☐

1.4 The tool helped me to explore innovative value connections with other actors

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☒ ☐ ☐

1.5 The tool is supported by 'value compass' (see figure 1.1). To what extend did you find these compass useful to support the naming of values?

☐ ☐ ☐ ☒ ☐ ☐ ☐ ☐ ☐ ☐

1.6 The tool is supported by 'value dice' (see figure 1.2). To what extend did you find these dice helpful in incorporating new values that were not previously considered?

☐ ☐ ☐ ☒ ☐ ☐ ☐ ☐ ☐ ☐

*In the session the actors were given, while the tool ~~understands~~ gives a clear overview of the actors*

*The value compass seems to have different level of value (for individual, for organization, for society) and it's hard to use to categorize the value exchange between two different level entities.*



Figure 1.1 Value compass



Figure 1.2 Value dice

Space for comments or ideas:

- The arrow could be one-directional to make the value flow clear (from resource giver to receiver)
- There are goals can be fulfilled by multiple resources or vice versa. Can give space for such connection
- The "motivation" of the resource giver is not clearly explored in the tool. The value reflection part achieved part of the motivation exploration while it could be more explicit
- Participants tend to work with actors that are given. We didn't add more actors that aren't already existing in the environment. How to encourage participants to think about broader actors?

# U

## Pilot session — Evaluation Form results

### Evaluation Form

How did you feel about participating in the creative session today? Feel free to give your opinion in this form and share your last comments or ideas.

#### 1.1 Value Ecosystem

Totally disagree ☐ ☐ ☐ ☐ ☐ ☒ ☐ Totally agree

1.1 The tool supported me to identify actors in the ecosystem ☐ ☐ ☐ ☐ ☐ ☒ ☐

1.2 The tool helped me to understand actors roles and interactions ☐ ☐ ☐ ☐ ☐ ☒ ☐

1.3 The tool helped to identify potential value connections between actors ☐ ☐ ☐ ☐ ☐ ☒ ☐

1.4 The tool helped me to explore innovative value connections with other actors ☐ ☐ ☐ ☐ ☐ ☒ ☐

1.5 The tool is supported by 'value compass' (see figure 1.1). To what extend did you find these compass useful to support the naming of values? ☐ ☐ ☐ ☐ ☒ ☐ ☐

1.6 The tool is supported by 'value dice' (see figure 1.2). To what extend did you find these dice helpful in incorporating new values that were not previously considered? ☐ ☐ ☐ ☐ ☒ ☐ ☐

AS MENTIONED OVERLAP WITH BEING AND SOCIAL PROSPERITY

WE FOUND WELL - BEING AND SOCIAL PROSPERITY

Figure 1.1 Value compass

Figure 1.2 Value dice

I USED THE "VALUE COMPASS" FOR THIS PHASE

Space for comments or ideas:

THE BEGINNING OF THE "CREATE CONSTELLATION" FELT A BIT OVERWHELMING - MAY BE ADDING A "RULE" TO HELP GETTING IT STARTED.

01/02

### 2. The way of collaboration

2.1 Did the workshop helped you to generating ideas? Please explain your answer, what was more useful or less? Why?

Space for comments or ideas:

THE SHAPES WERE VERY USEFUL TO CONNECT DIFFERENT PARTS (ALSO GIVING THE RIGHT AFFORDANCE).

2.2 What have you learned from applying the tool?

Space for comments or ideas:

THE TOOL SHOWED ME THAT ~~DIFF~~ STAKEHOLDERS ARE MULTIFACETED & THAT DIFFERENT VALDES. CAN BE USED AS A LENS TO CONSIDER.

### 3. Keep-Kill-Build

3.1 How can the workshop be improved? What went well, and what should be started/stopped/considered or continued?

	Keep	Kill	Build
Build the foundation	U		
Casting the players	U		
Create constellations			
Value Reflection		GREAT TO GET PEOPLE DISCUSSING	
Map constellations			

CLARIFY A BIT THE TWO STEPS HOW THEY ARE DIFFERENT.

02/02

### Feedback canvas

Write down your thoughts and initial ideas while you listen to the explanation. Is something not clear? What could be improved/stopped or considered?

	Keep	Kill	Build
Build the foundation			
Casting the players			
Create constellations	GOAL/RES DEFINITION HAVE CONNECTION (JACOB)		this phase has 3 sub steps - maybe make them emerge more.
Value Reflection			
Map constellations			I'm not sure if this is a second round of making connections, or if it has a different element.

03/02/2023



## U Pilot session- Evaluation Form results

Using a Likert scale ranging from one to seven points, quantitative results are displayed as a bar chart.

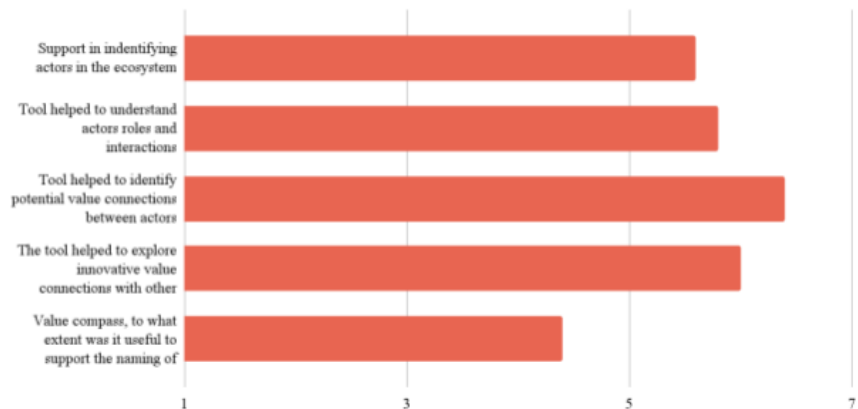
### Pilot session

#### What have participants learned?

*'The tool showed me that stakeholders are multifaceted & that different values can be used as a lens'*

*'The complexity of multiple goals connected was really nice to see, also the easiness with which everyone made these connections''*

*'The arrows make you believe in the possibility for connection, so then you find the connection'*



A keep-kill-build table expressing qualitative feedback on the tool's method.

### Pilot session

	Keep	Kill	Build	
Build the foundation		Values as guiding principles seem to connect to knowledge institutes		-Purpose Helix adjusted
Casting the players	*Add colors		- Cards with an example -Specify for Environment. Are the actors, flora & fauna, water, planet city? -1 actor per participant to familiarize with goals	-Participants role-playing actors
Create constellations	Good to have a goal per card	*should values as guiding principles come back -The beginning is overwhelming, perhaps add a 'rule' to help getting it started	-Multiple actors resources to achieve a goal. How to show it with the card	-Reflect on values as guiding principles -Start from one actor, to break the ice
Value Reflection	Great to provoke discussions	Not really intuitive to write on the white section	Add color coding to values to lower their density Value compass per participant	-Color code on values -Adjustment on card shape -Value compass per participant
Map constellations				-Reflect on <b>goals</b> that are not fulfilled -Constellations to analyze <b>activities</b>

## V

### Validation session — Set up

The tool was validated with project partners from the LIFE project, the following guide provides a guide for the facilitator.

**Location:** Huis van de Toekomst

**Goal:** Test and evaluate value ecosystem tool

**Time:** 2hrs

Time	Duration	Activity	Who	To do	Material
11:00	5	Welcome & Introduction	Dafne	-Start audio recording	-Consent forms -Laptop (support slides) -Refreshments -Audio recording
11:05	10	<b>Context &amp; Tool Introduction</b> Setting the scene -Introduce tool with example -Present previous steps, build the foundation, casting the players Everything clear? -Explain <i>create constellations</i> step Split in two groups	Dafne	-Distribute <i>feedback canvas</i> to gather notes on steps that will not be addressed in the workshop	-Laptop (support slides) -Refreshments -Feedback canvas -Post its -Markers -Audio recording
11:10	5	Short discussion, solve doubts	Together	-Add/adjust major changes	-value ecosystem canvas: -Purpose helix -Actor cards
11:15	5	Icebreaker	Together	*ecosystem metaphor	
11:20	60	<b>Value ecosystem canvas</b> 10min-Read through actor cards 25min-Create constellations 25min-Value reflection	They	-Start timer	-Actor cards -Value compass -Value dice -Post-its -Small post-its -Markers -Mobile for time
12:20	10	Break	Dafne	-Collect feedback forms	-Camera
12:30	20	<b>Tool Evaluation</b> Brief sharing Keep-kill-build Evaluation Form Peer feedback	They	-Distribute <i>Evaluation forms</i>	-Evaluation form -Pens/markers -Camera -Mobile for time
12:45	5	<b>Wrap up &amp; closing</b> Closing questions Next Steps Take pictures of materials	Dafne	-Collect evaluation forms	-Camera -Consent forms





# V

## Validation session — Facilitation Guide

### Facilitation guide



#### Value Ecosystem canvas

Detailed description of workshop steps

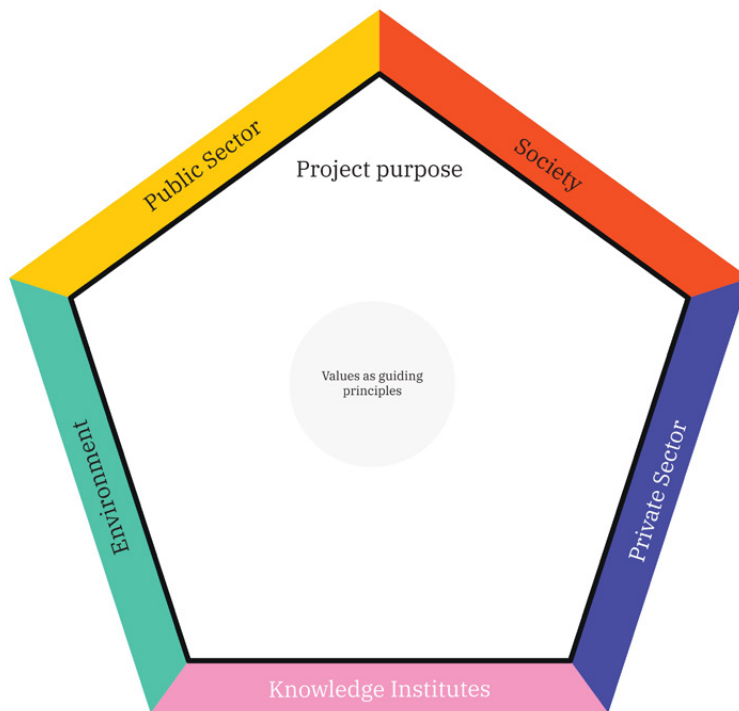
Step No.	Step	Tool	Time	Description	Facilitation Guide	
1	Setting the scene		10 min	Brief introduction to the tool alongside fully populated example		
Purpose & actors in the ecosystem						
Diverging	2	Establish the principles		10min	Subsequently, in establish the principles, participants will define the unit of analysis, which may be a product, a service, or a project offered by the collaborative network. Using the purpose helix, participants will agree on the purpose of the unit of analysis and using the value as guiding principles compass, establish the values as guiding principles for actions within the ecosystem.	<b>Purpose</b> -What is the unit of analysis that we will focus on: product, service offering, project -What is the primary reason for the existence of our project and our (organization/consortium)? -Why should any actor care about the existence of (unit of analysis)? <b>Values as Guiding Principles</b> -What are the values that act as our (unit of analysis) guides? -What are the values that guide our actions?
	3	Casting the actors		10min	The five segments of the helix are populated through facilitated brainstorming. Taking into consideration the actors who may play a role in achieving the collaborative network's purpose. This could include potential customers, competitors, suppliers, or other businesses with distinct responsibilities but potentially similar objectives. A color will be allocated to the chosen actors based on the sector to which they belong; each actor will be assigned actor cards.	<b>Think about each of the actors:</b> -Who are the main actors in this ecosystem? -Which actors influence our operation? -Which actors have a similar purpose than us? -Who has an impact in our activities, maybe not directly?
	4	Actors goals & resources		20min	The next phase will depend on the configuration of the workshop and the stage of the project, as well as whether or not the actors will be present at the session. When the tool is used in an exploratory phase, website and report analysis can be used to fill in the actor cards with the objectives and resources of potential actors. When actors will be present at the workshop, questions are sent in advance so that they can complete their actor cards. Actors may have multiple objectives and resources, but only those that are most relevant to the project's purpose should be included on their cards.	<b>Actor's Cards</b> <b>Goals</b> -What does this actor wants to achieve? -What are their objectives? -What can they be struggling with? <b>Resources</b> -Think about the resources each actor has (tangible/ intangible) Resources at the disposal of the actor to be utilized for value creation -Which facilities, materials, assets, does this actor has access to? -What are the competences, expertise, connections an actor has?
			50min			
Value constellations						
Reverging	5	Create constellations		30min	Using the completed actor cards from the previous stage as a guide, the next step is to create constellations. Participants examine the actor's goals and resources cards and look for potential points of connection. The objective is to identify actors who could achieve their goals with another's resources. After completing this exercise, the wild card is introduced. The wild card assists participants in determining whether there is a potential connection between the protagonists through the introduction of an activity, capability, product, or service. Actors that are presently absent from the ecosystem may be introduced.	<b>Constellations</b> Take a step back and look at the different actors goals and resources. Try to see potential ways in which they could help each other. Take one actor and see which potential resources could be connected -What if new capabilities or activities were introduced? -How might emerging technologies could offer potential solutions? <b>Wild card</b> Do not be constrained by rationality or practicality of ideas -How might new partnerships be created to fulfill an actors goals? -What if an additional partner was added? -What if they offer additional activities, products or services? Zoom out and look at all the actors: -Are there goals from one actor that influence the goal of another one?

# V

## Validation session — Facilitation Guide

Reverging	5	<b>Naming values</b>		20min	Once potential constellations have been established, Naming values provides participants with the value compass so they can identify the values being exchanged between actors. If an actor provides X to another actor, what values do they receive in exchange? Participants use the value stickers to label the type of value being captured by each of the actors.	<b>Value Reflection</b> Now let's take a step back and look at the value compass. These values are a classification of worth qualities, grouped in different types of value. Start from one constellation, imagine the exchange happens: -What could be potential values that each actor think as worthy? -If an actor provides X to another actor, what values do they receive in exchange? Try to go beyond the assumption that actor pursue economic value, what other types of value could be interesting to explore?
		<b>*Value Dice</b>		10min	In this phase, the value dice is introduced as an entertaining way to determine if there is an opportunity to promote undiscovered value within the ecosystem. Participants are asked to consider the project's purpose and guiding values. In this step, the value dice is used to begin from a previously unexplored value and determine if there is an opportunity to promote it within the ecosystem.	<b>Value Dice</b> Look at the values mapped in the ecosystem, and then circle back to the purpose helix and the values as guiding principles. Are there any values that are missing? Roll the value dice and pick a value type that hasn't been used yet. Evaluate the current constellations. -Could this value be promoted in the ecosystem in some way? -Who among the actors could influence another to promote this value?
Reverging		<b>Explore constellations</b>		10min	Participants are then asked to summarize in a constellation statement the constellations created, including actors, goals, resources, and values exchanged.	Let's summarize the constellation using the constellation statement to guide us. For actor A that want to <b>goal</b> , actor B offers <b>wild card</b> , using actor C <b>resources</b> , achieving <b>value</b>
				20min	Then, they are asked to look back and reflect on the purpose helix and guiding values. Considering which constellations are more or less aligned with the purpose helix. Constellations that are more in line with the purpose helix are prioritized.	Let's summarize the constellation using the <i>constellation statement</i> to guide us.
Converging		<b>Define interventions</b>		20min	The workshop ends with participants defining the first activities or interventions that they could take to explore the constellations further, leading to the potential involvement of an additional stakeholder or value exchange in the project. To reduce uncertainty in the value exchange, it is necessary to evaluate the assumptions outlined in the value ecosystem canvas.	Using the constellation map as inspiration, let's use post-it notes to ask ourselves: 'What can I do tomorrow to take a step further to achieve this constellation?' -Is there something I can look into, somebody I can question, or someone I can get in touch with? -How can we modify our approach to make this happen?
				2hrs		

## W Validation session — Visuals



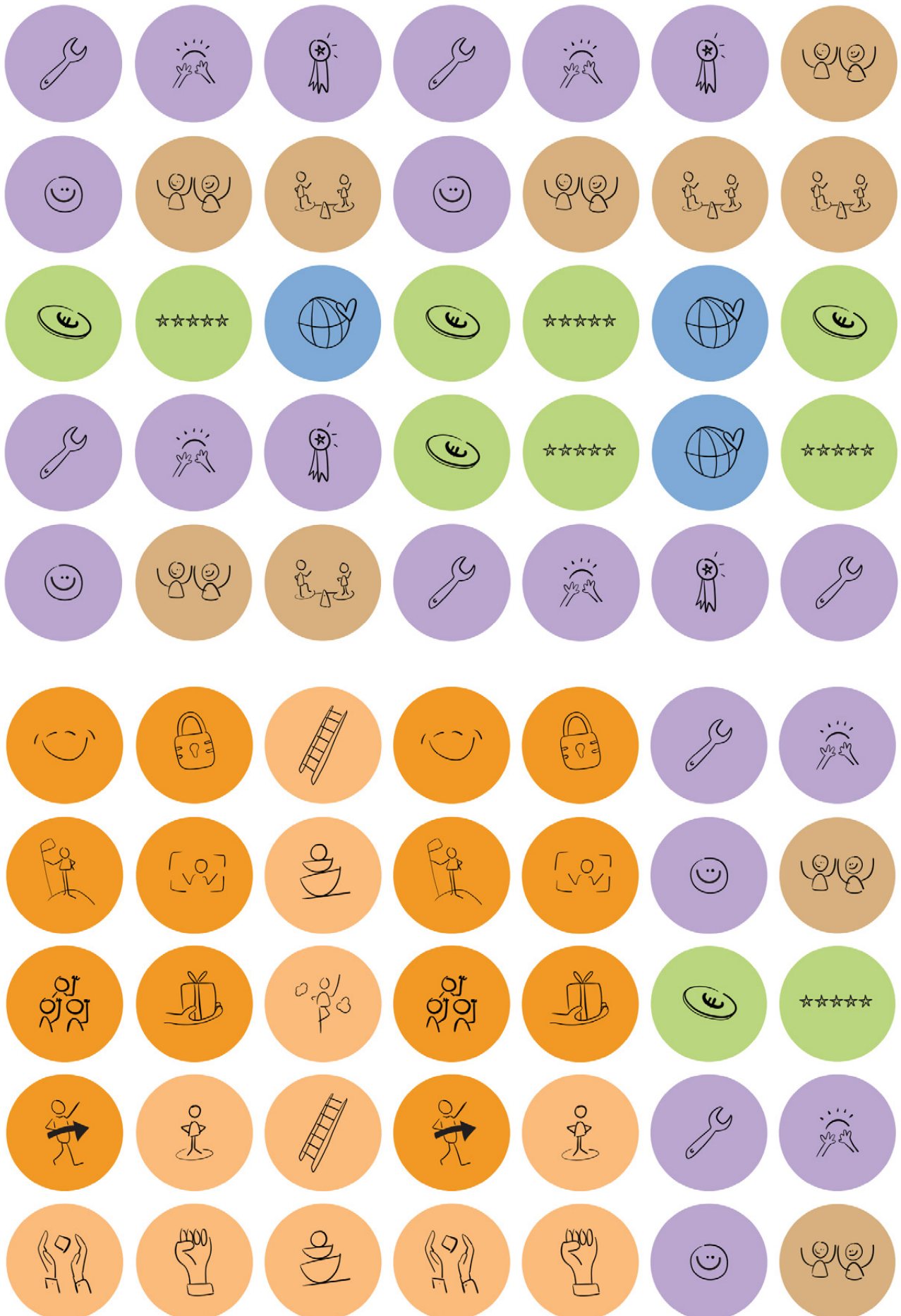
Purpose Helix







## Value Stickers



# X

## Validation session — Activities

During the validation session, participants construct the following constellations.



**X**

Constellations summarized in constellation statement.



## Validation session — Evaluation Form

### Evaluation Form

How did you feel about participating in the creative session today? Feel free to give your opinion in this form and share your last comments or ideas.

#### 1.1 Value Ecosystem

	Totally disagree						Totally agree
1.1 The tool supported me to identify actors in the ecosystem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 The tool helped me to articulate value exchanges	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 The tool helped to identify potential value connections between actors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 The tool is supported by 'value compass' (see figure 1.1). To what extent did you find these compass useful to support the naming of values?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The tool is supported by 'value dice' (see figure 1.2). To what extent did you find these dice helpful in incorporating new values that were not previously considered?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Figure 1.1 Value compass



Figure 1.2 Value dice

1.6 At which stages or steps of a project's workflow would you integrate the use of the tool?

1.7 What challenges do you foresee when using the tool in your professional practice?

1.8 How do you envision the tool enhancing the consortium's way of working?

# Y

## Validation session — Evaluation Form

### 2. The way of collaboration

2.1 Did the workshop helped you to generating ideas? Please explain your answer, what was more useful or less? Why?

Space for comments or ideas:

2.2 What have you learned from applying the tool?

Space for comments or ideas:

### 3. Keep-Kill-Build

3.1 How can the workshop be improved? What went well, and what should be started/stopped/considered or continued?

	Keep	Kill	Build
Build the foundation			
Casting the players			
Create constellations			
Value Reflection			



## Validation session — Evaluation Form results

Forms filled out by participants during the validation session.

# Evaluation Form

How did you feel about participating in the creative session today? Feel free to give your opinion in this form and share your last comments or ideas.

## 1.1 Value Ecosystem

Totally disagree      Totally agree

1.1 The tool supported me to identify actors in the ecosystem

1.2 The tool helped me to articulate value exchanges

1.3 The tool helped to identify potential value connections between actors

1.4 The tool is supported by 'value compass' (see figure 1.1). To what extend did you find these compass useful to support the naming of values?

1.5 The tool is supported by 'value dice' (see figure 1.2). To what extend did you find these dice helpful in incorporating new values that were not previously considered?

Figure 1.1 Value compass

Figure 1.2 Value dice

1.6 At which stages or steps of a project's workflow would you integrate the use of the tool?

1.7 What challenges do you foresee when using the tool in your professional practice?

1.8 How do you envision the tool enhancing the consortium's way of working?

01/02

## 2. The way of collaboration

2.1 Did the workshop helped you to generating ideas? Please explain your answer, what was more useful or less? Why?

Space for comments or ideas:

Yes, it helped. The Dice was helpful to think about the (less obvious) options for value exchanges.

2.2 What have you learned from applying the tool?

Space for comments or ideas:

It is a more fun, less serious way of thinking about complicated topics. It also helped to illustrate the complexity.

### 3. Keep-Kill-Build

3.1 How can the workshop be improved? What went well, and what should be started/stopped/considered or continued?

	Keep	Kill	Build
These are probably other tools/methods especially for this		But had to tell since we didn't do it	
Build the foundation	But good to have a way of reminding/triggering everyone in the beginning	I ideally this is already known beforehand	
Casting the players		This also	
Create constellations	This worked well, also encourage the creative creation in leading constellation		
Value Reflection	Dice works well to reflect on less obvious values		The values on the compass seem a bit random: Why this selection? also there is some overlap

I see this as the core strength of your tool

02/02



# Validation session — Evaluation Form results

## Evaluation Form

How did you feel about participating in the creative session today? Feel free to give your opinion in this form and share your last comments or ideas.

### 1.1 Value Ecosystem

- Totally disagree ☐ ☐ ☒ ☐ ☐ ☐ ☐ ☐ Totally agree
- 1.1 The tool supported me to identify actors in the ecosystem (b.c. already prepared)
- 1.2 The tool helped me to articulate value exchanges ☐ ☐ ☐ ☐ ☐ ☒ ☐
- 1.3 The tool helped to identify potential value connections between actors (already prepared)
- 1.4 The tool is supported by 'value compass' (see figure 1.1). To what extent did you find these compass useful to support the naming of values? ☐ ☐ ☐ ☐ ☐ ☐ ☒
- 1.5 The tool is supported by 'value dice' (see figure 1.2). To what extent did you find these dice helpful in incorporating new values that were not previously considered? ☒ ☐ ☐ ☐ ☐ ☐ ☐



Figure 1.1 Value compass



Figure 1.2 Value dice

1.6 At which stages or steps of a project's workflow would you integrate the use of the tool?

- when <sup>new</sup> connections need to be made.
- when you need to step out of your 'tunnel vision'.

1.7 What challenges do you foresee when using the tool in your professional practice?

- quite time consuming (when done from start)
- challenging to get concrete results/action points

1.8 How do you envision the tool enhancing the consortium's way of working?

- it can create unforeseen links between actors
- fun dynamic way to think out of the box and discuss bigger picture together

01/02

### 2. The way of collaboration

2.1 Did the workshop helped you to generating ideas? Please explain your answer, what was more useful or less? Why?

Space for comments or ideas:

yes - from JCA perspective helpful how other actors can benefit/contribute to our goals/resources, also useful to learn about new links/overlapping goals between actors

2.2 What have you learned from applying the tool?

Space for comments or ideas:

selection ideas: combine actors with common goals to identify which resources can help them.

### 3. Keep-Kill-Build

3.1 How can the workshop be improved? What went well, and what should be started/stopped/considered or continued?

	Keep	Kill	Build
Build the foundation	prep was helpful		- with bigger group, pick more purposes? - link back to it at the end!
Casting the players	the preparation was very helpful	-	pick 5 most important ones when brainstorming with a small group
Create constellations	?	-	-
Value Reflection	?	the value dice was not very useful in my opinion (but it is a fun element)	-

02/02

# Z

## Validation session — Evaluation Form results

### Evaluation Form

How did you feel about participating in the creative session today? Feel free to give your opinion in this form and share your last comments or ideas.

#### 1.1 Value Ecosystem

- Totally disagree Totally agree
- 1.1 The tool supported me to identify actors in the ecosystem ☐ ☐ ☐ ☐ ☒ ☐ ☒
- 1.2 The tool helped me to articulate value exchanges ☐ ☐ ☐ ☐ ☒ ☐ ☐
- 1.3 The tool helped to identify potential value connections between actors ☐ ☐ ☐ ☐ ☒ ☐ ☐
- 1.4 The tool is supported by 'value compass' (see figure 1.1). To what extent did you find these compass useful to support the naming of values? ☐ ☐ ☐ ☐ ☐ ☒ ☐
- 1.5 The tool is supported by 'value dice' (see figure 1.2). To what extent did you find these dice helpful in incorporating new values that were not previously considered? ☐ ☐ ☐ ☐ ☒ ☐ ☐



Figure 1.1 Value compass



Figure 1.2 Value dice

1.6 At which stages or steps of a project's workflow would you integrate the use of the tool?

In the early stage of scoping the project.

1.7 What challenges do you foresee when using the tool in your professional practice?

there is some overlap in actors or values, sometimes it's hard to distinguish them.

1.8 How do you envision the tool enhancing the consortium's way of working?

It's a fun way to think about value exchange and make it concrete. I wish we had this tool earlier!

01/02

#### 2. The way of collaboration

2.1 Did the workshop helped you to generating ideas? Please explain your answer, what was more useful or less? Why?

Space for comments or ideas:

A little bit, especially through the dice!

2.2 What have you learned from applying the tool?

Space for comments or ideas:

make things specific, make exchanges visual helps me to understand the connections.

#### 3. Keep-Kill-Build

3.1 How can the workshop be improved? What went well, and what should be started/stopped/considered or continued?

	Keep	Kill	Build
Build the foundation			
Casting the players			
Create constellations	X great way to visualize connections		X sometimes the clusters overlap or get too big. This makes it hard to zoom in on specific exchanges.
Value Reflection	X helps with identifying the specific value		X there are so many, hard to understand the difference some how.

02/02

# Z.1

## Validation session — Analysis

Session validation analysis.

