











DESIRE Line



CONTENTS

•	01 INTRODUCTION	. 03	•	05 IDEATE	_ 30
	How to use the book			Key Themes & Opportunity Areas Idea Prioritization Matrix	
	02 HUMAN CENTRED DESIGN About HCD HCD Process	_ 05		The Ideal Experience Template Ecosystem of Solutions	
	CP Journey		•	06 PROTOYPE & LEARN Prototyping Plan	_ 41
	03 DISCOVER Ecosystem Map Discussion Guide	09		Storyboarding Role-Play Script Template Testing Checklist Feedback Capture Matrix	
•	04 DEFINE	17		I like, I wish, What if Table	
	5 whys Persona Template Journey Framework Relationship Framework Opportunity area prioritization		•	O7 APPLYING HCD Data Points HCD Roadmap	_ 59



Introduction

How to use this book

This book consists of all the tools discussed during the human centred design capacity building workshop.

It helps recap some important aspects about each tool such as:

- What it is
- Why it's needed
- Output
- Who can use it
- How to use it
- When to use the tool / When to use the output of the tool

It also provides the reader with printable templates that can be used during the different phases of the HCD process.

Note: All pages marked with the symbol "Print & Use" can be printed on a regular office printer and used as templates.



Human Centred Design

A Problem-Solving Approach

About HCD

"Human Centred Design (HCD) is an approach that puts human needs, capabilities, and behaviour first, then designs to accommodate those needs, capabilities, and ways of behaving."

- Don Norman
- Human Centred
- Collaborative Systems Based
- Iterative
- Measurable
- Results Driven

With HCD, community is the centre

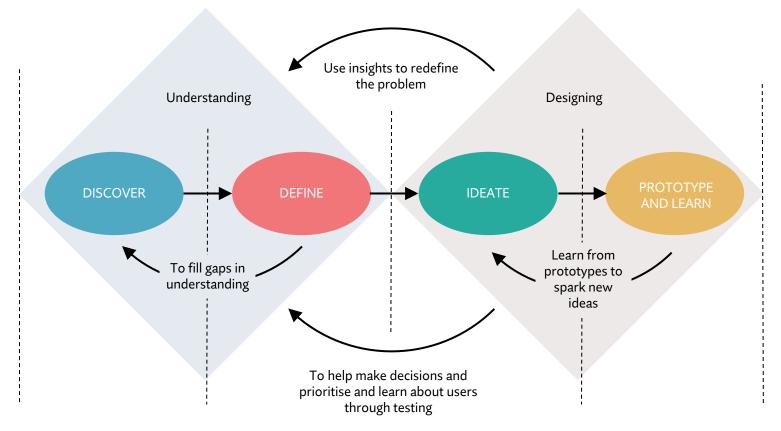
Understanding people and harnessing their strengths to come up with solutions

HCD is a process of discovering new solutions to problems that are centred around the user A systematic but flexible vetted process to help identify and understand the underlying demand that people have - needs, desires, solutions grounded in their context

An approach / something that prepares the community to engage with an open mind

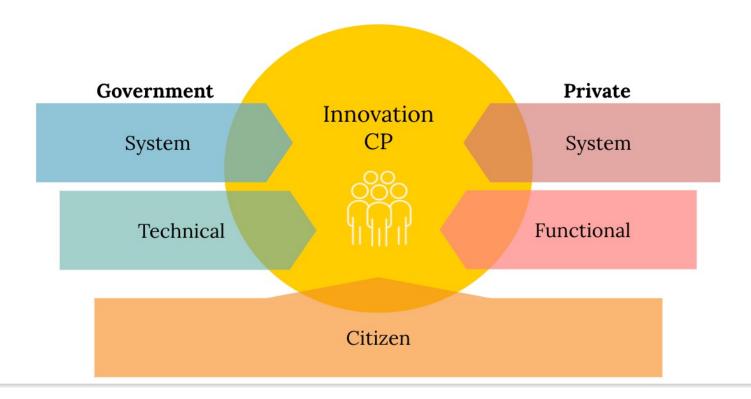
HCD Process

Design is an Iterative Process



CP Journey

Innovation communities foster unexpected ideas and innovations and intentionally cross boundaries to mix members who have different perspectives - Wenger



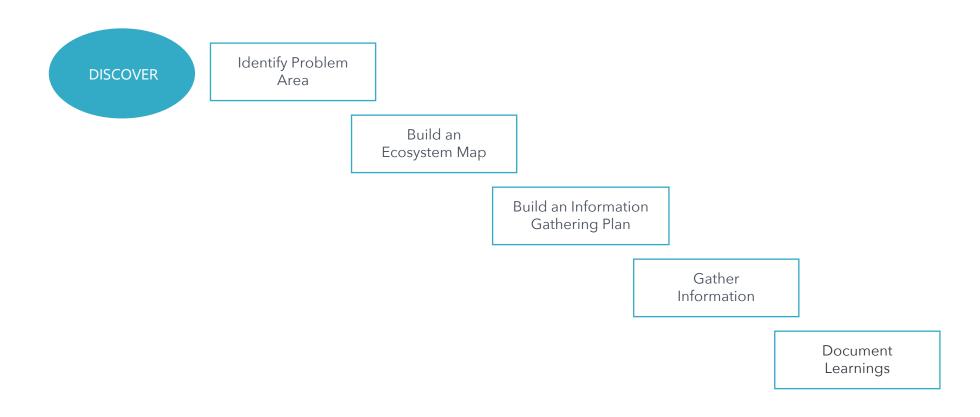


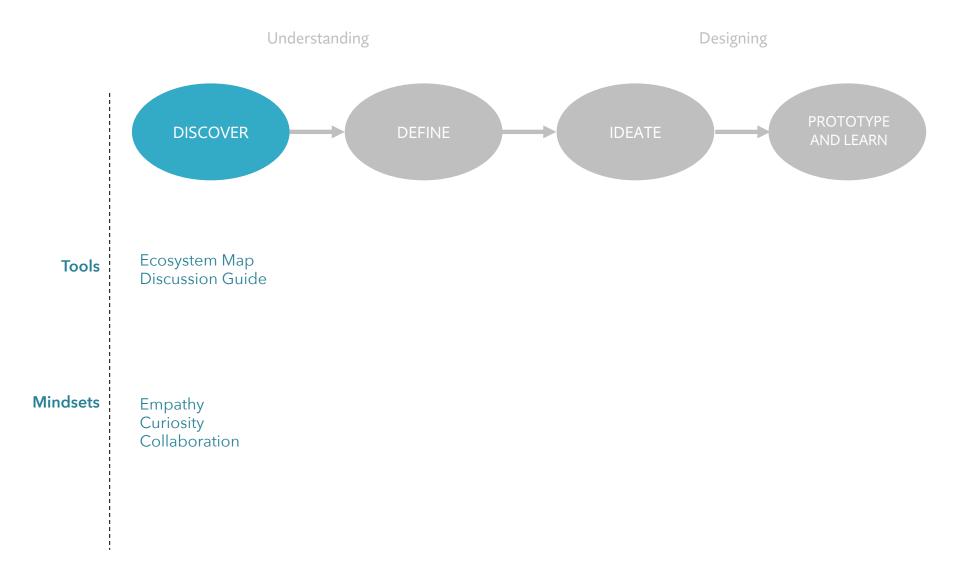
Discover

Understanding people and their environment

- 1. Ecosystem Map
- 2. Knowledge Gathering Matrix
- 3. Discussion Guide Template

Overview of Discover





Ecosystem Map



What it is:

A tool that helps organise information and discover potential problem areas.

Why it's needed:

- As a starting point to narrowing in on the problem
- Helps identify where to invest our time and energy while solving a problem
- Identifies the main stakeholders and institutions
- Helps draw connections
- Helps ask the right questions

Output:

- Wider view and better understanding of the problem
- Deeper understanding of the environment of the user
- Learnings that will direct who to speak to and what to ask them

Who can use it:

Ecosystem maps can be built and used by anyone. The insights are richer when diverse stakeholders participate in building it.

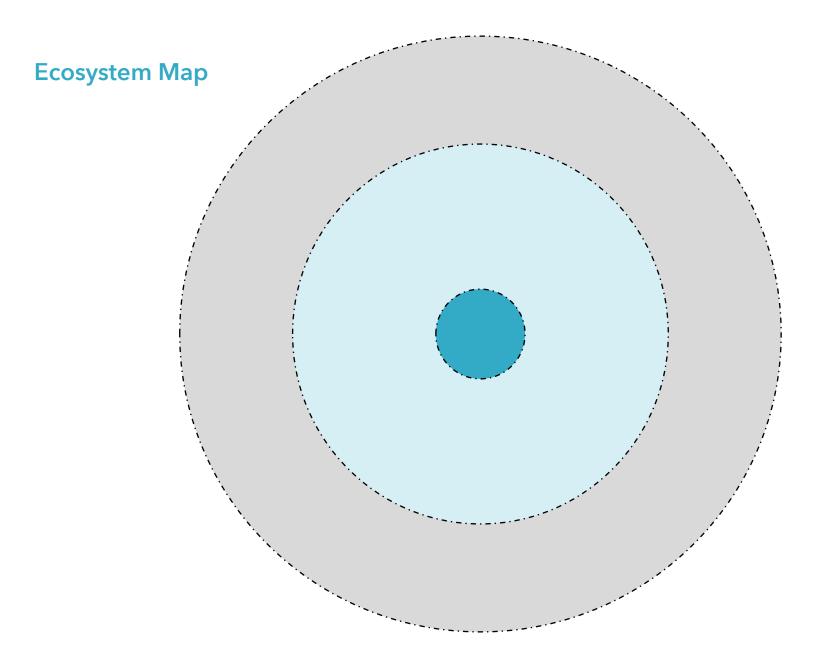
How to use it:

- Put the target user in the centre
- Populate people and institutions around the target user at family, community and institutional level
- Connect the relevant elements and ideate on the nature of connections
- Document the learnings Who, What and Why

When to use the tool:

- While gathering information and insights.
- Use the output to identify objectives of interactions with target users. Continue to update it in following stages.

Discover | Tool | Ecosystem Map



Ecosystem Map

Who to talk to to understand the problem better	What parts of the problem we need to explore	Why unanswered questions crucial to potential solution



Discussion Guide Template



What it is:

A discussion guide helps you prepare for your conversations with people

Why it's needed:

- To have a common understanding of the purpose of your conversations within your team
- To serve as a reminder while you speak to people
- To help you prepare for conversations with multiple people

Output:

A document to facilitate your conversation with stakeholders

How to use it:

- Add in the required elements to a digital or physical document:
- Introduction and Purpose
- Ask for consent and permission to document
- Include culturally relevant icebreakers
- Add in activities, questions and follow-up questions
- Thank them for their time

When to use the tool:

- When you have idea of what guestions you need answers for
- Before going out and seeking information from your users

Discussion Guide Template

Introduction:	Activities / questions
Purpose:	
Ask for consent	
Ice-breaker 1	
Ice-breaker 2	





Define Narrowing the problem statement

- 1. 5 whys
- 2. Journey Map
- 3. Relationship Map
- 4. Persona
- 5. Opportunity Area Prioritisation

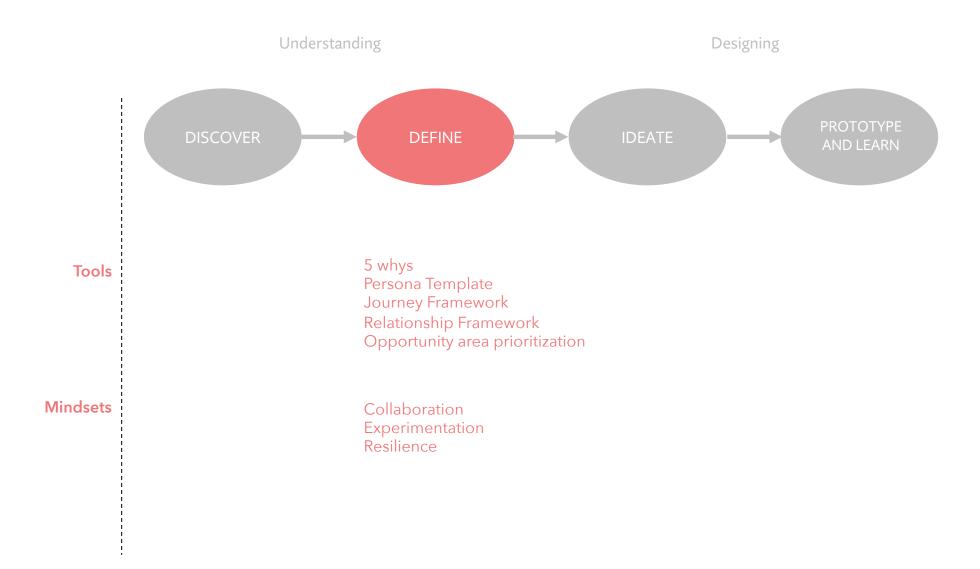
Overview of Define

DEFINE Consolidate Observations

Uncover Learnings

Create Frameworks

Explore Opportunity
Areas



5 Whys



What it is:

A tool to understand the root of a statement or problem

Why it's needed:

- To uncover insights that may not have been considered earlier
- To understand the user and problem statement better

Output:

- Learnings about the problem statement
- In-depth understanding of the user

How to use it:

- Pick an observation
- Ask "why" this is occurring
- Take the answer of each "why" and plug it in as a question for the next one
- Keep in mind that "5" is just a number. Ask "Why" as many times as you need to complete the process and take appropriate actions

When to use the tool:

- When stuck with a problem
- When there is a need to understand the user / problem in-depth
- To come up with learnings

Define | Tool | 5 Whys

5 Whys

1st why Question Answer 2nd why Question Answer 3rd why Question Answer 4th why Question Answer 5th why Question Answer	Observation		
Answer 2nd why Question Answer 3rd why Question Answer 4th why Question Answer 5th why Question Answer			
2nd why Question Answer 3rd why Question Answer 4th why Question Answer 5th why Question Answer	1 st why	Question	
Answer 3rd why Question Answer 4th why Question Answer 5th why Question Answer		Answer	
Answer 3rd why Question Answer 4th why Question Answer 5th why Question Answer			
3rd why Question Answer 4th why Question Answer 5th why Question Answer	2 nd why	Question	
Answer 4th why Question Answer 5th why Question Answer		Answer	
Answer 4th why Question Answer 5th why Question Answer			
4 th why Question Answer 5 th why Question Answer	3 rd why	Question	
Answer 5 th why Question Answer		Answer	
Answer 5 th why Question Answer			
5 th why Question Answer	4 th why	Question	
Answer		Answer	
Answer			
	5 th why	Question	
		Answer	
	1	n in a	



Journey Map



What it is:

- Visual representation of consolidated information
- Map of an experience or a process

Why it's needed:

- Allows creation of boundaries for the problem statement (beginning and end), reduced fragmentation of a problem (doesn't seem as big)
- Allows you to understand stagewise opportunities and solutions
- Forces creation of a singular path with details at each stage for a group / individual

Output:

- Opportunity areas for solutions
- A visual, unified version of the problem statement to various stakeholders

How to use it:

Steps:

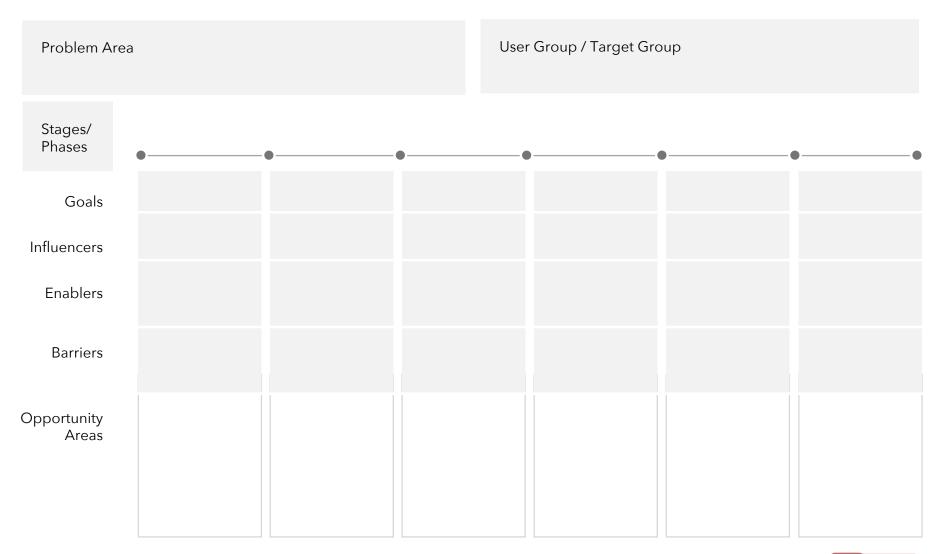
- 1. Define your target group and horizontal axis
- 2a. Decide where your map begins and ends
- 2b. Identify milestones or change markers
- 3. Map information onto stages

When to use the tool:

- To make sense of information after learnings and insights have been gathered
- When there is lack of agreement on where the problem lies
- A deep-dive into individual components of the process is needed

Define | Tool | Journey Map 22

Journey Map





Relationship Maps



What it is:

Visual representation of consolidated information

Why it's needed:

- Visualise the broader system in which things are working and help make connections
- Understand stakeholders and the role they play
- Understand interdependence in problems

Output:

- A visual, unified version of the problem statement to various stakeholders
- · Opportunity areas for solutions

How to use it:

Steps:

- Revisit Ecosystem Map and define Focus Area
- 2. Identify key people and places basis ecosystem map
- 3. Draw the relationship map: add new elements, break down elements, organise connections
- 4. Explore connections and add notes
- 5. Identify strong and stressed connections

When to use the tool:

- To make sense of information after learnings and insights have been gathered
- When there are several stakeholders, and we want to better understand how they are connected

Define | Tool | Relational Maps

Opportunity Area - Relationship Map

Strong connection	Stressed Connection	How might We

Persona Template



What it is:

A tool to help understand your user better

Why it's needed:

- Useful layer to add to problem area and maps
- Emphasise different kinds of people in a target group based on behavioural traits
- Help identify how different users experience the same system or process
- Enables focus on a manageable and memorable set of characters
- Builds more empathy for the target group

Output:

 Description of how your user is feeling, and what they're doing and thinking

How to use it:

- Add a name / label for your user along with some defining traits such as age / location / any other important details
- Add notes to each of the three columns of thinking, feeling and doing
- Add in quotes wherever possible to bring the persona to life

When to use the tool:

- While defining your problem statement and building empathy for your user
- When the frameworks or map seem incomplete or require an additional level of detail

Persona Template

Problem statement



Persona Name

Age group, location

Description

Thinking

- What does this individual think about the problem statement?
- How do they think it affects them?

Doing

- What kind of actions are they taking for this problem
- What are the results of these actions?

Frustrations

- What are their main frustrations?
- How are they expressing these frustrations?



Opportunity Area Prioritisation



What it is:

A tool to understand which areas to focus and begin ideating on

Why it's needed:

- Helps create more defined problem area(s)
- Reduces the number of variables in focus

Output:

- 3-4 prioritised opportunity areas with the rationale behind the areas written down
- Clarity on what the solution will address

How to use it:

Steps:

- Decide 3-4 opportunity areas basis these factors: Objectives, Impact and What you can influence
- 2. Align as a team and list the rationale behind the ones you picked

When to use the tool:

- When all opportunity areas have been identified and it is time to move into a solution space
- When there is an abundance of opportunity areas and the need to narrow it down appears

Opportunity Area Prioritisation

No.	Opportunity Areas	Because





Ideate

Building on Opportunity Areas to Ideate and Prioritise Interventions to Test

- 1. Key Themes & Opportunity Areas
- 2. Idea Prioritization Matrix
- 3. The Ideal Experience Template
- 4. Ecosystem of Solutions

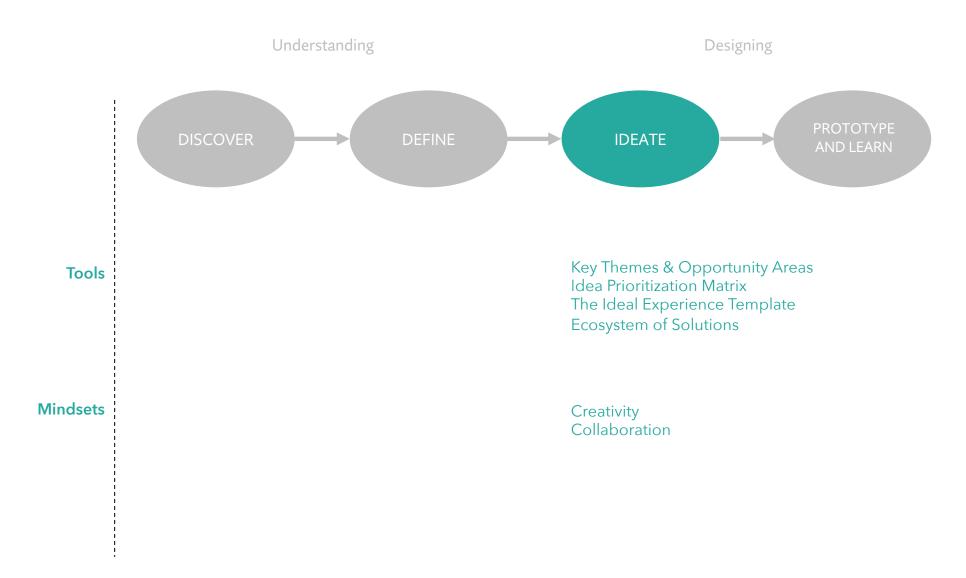
Overview of Ideation



Ideation

Prioritizing Ideas

The Ideal Journey Story



Synthesizing



What it is:

Method for organising and synthesising the ideas that came from the ideation session, identifying themes and patterns. Beginning with the opportunity area, identify any key themes that came about from the ideation session. Capture specific intervention ideas and any details that would assist when returning to later.

Why it's needed:

A means of capturing ideas and themes that came from ideation. While all ideas cannot be moved to design concepts and prototypes, they can be returned to at a later date.

Output:

A completed reference that captures the output of the ideation session to return to later

Who can use it:

The leader of the ideation session should take (or assign) responsibility for the completion of this form. However, this can be referenced by anyone seeking information about ideas created from the session.

How to use it:

You can utilise this form or create a table or spreadsheet that accurately captures the output of your ideation session.

- Begin with capturing the prioritised opportunity areas.
- Add themes that fall under each opportunity area
- Add specific ideas to each identified them
- Finally add any considerations for each idea

When to use the tool:

Complete after ideation session

Ideate | Tool | Synthesising

Synthesising

Opportunity Area	How might we address stigma by ensuring privacy/anonymity in HIV testing?			
Key Themes	Bring services to the end user		Design testing locations that provide privacy	
Ideas	Unmarked delivery service of testing kits to user's location of choice	Mail self testing kits	Rent spaces in marketplaces or other frequented areas, limited signs	Numeric assignment for testing rather than providing name - keep identifiers separate in the system



Prioritisation Matrix



What it is:

A means to converge on solutions from ideation sessions that can be taken forward with a focus on solutioning that is centred on the CPs it serves.

Why it's needed:

Provides an approach to narrow in on what ideas to move forward with.

Output:

A prioritisation of ideas specific to the needs of the CPs

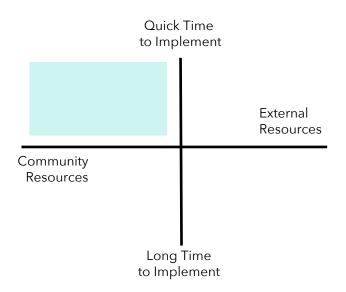
Who can use it:

Anyone involved in potential implementation or planning should be involved with the discussion to prioritise ideas.

How to use it:

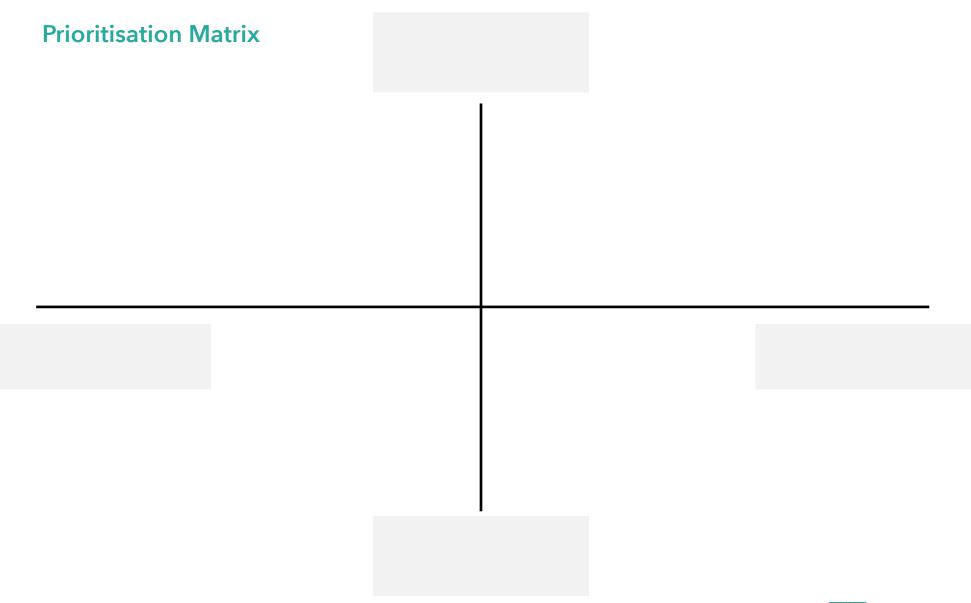
- Identify the horizontal and vertical access based on constraints, prioritised elements. From there identify which quadrant is prioritised at this time. For example, a quick win prioritisation is displayed on the next page.
- Discuss as a group where to place idea themes.
- Some elements you might want to use for prioritisation:
 - Time to implement
 - Resources Required
 - Feasibility
 - Impact
 - Cost

Example of a prioritisation matrix:



When to use the tool:

Use the tool as a way to prioritise ideas/idea themes to move from ideation to selection of ideas to move to prototypes



Ideal User Experience



What it is:

A template that helps teams imagine the ideal user experience of the user when your solution is implemented.

Why it's needed:

To create a bridge from an idea to a prototype, we fill out more details around an idea to create the Ideal User Experience.

Output:

A well-thought-out ideal user experience that illustrates the emotional and functional impact of the solution in the target user/group's lives.

Who can use it:

Anyone involved in the ideation process can use this template.

How to use it:

- Review your persona and their current journey.
- Discuss with your team on what the ideal user experience would be - that is the desired journey we would like the user to have when your solution is implemented.
- Refer to the prompts on the template to fill out the columns appropriately.

When to use the tool:

Complete after ideation session with the selected prioritized ideas.

Ideal User Experience

Beginning Middle End

The Persona	The Setting	The Problem	The Solution	The Impact
	What is the location, cultural context etc.	What is the issue at hand, how is your user experiencing it, what are they feeling?	Describe how the solution is helping your user deal the problem	What impact does it have on the user, how are they feeling now?



Ecosystem of Solutions



What it is:

Method for organising and synthesising the output of the ideation and prioritisation session(s).

Why it's needed:

A means of capturing ideas and themes that came from ideation. While all ideas cannot be moved to design concepts and prototypes, they can be returned to at a later date.

Output:

A completed reference that captures the output of the ideation and prioritisation session to return to later.

Who can use it:

The leader of the ideation session should take (or assign) responsibility for the completion of this form. However, this can be referenced by anyone seeking information about ideas created from the session.

How to use it:

- You can utilise this form or create a table or spreadsheet that accurately captures the output of your session.
- Work through the categories, adding relevant details.

When to use the tool:

Complete after ideation and prioritisation session and return to as needed

Ecosystem of Solutions

Stage/System	Stage 1		Stage 2		Stage 3	
Opportunity Area	How might we?		How might we?		How might we?	
Design Concepts	Concept 1	Concept 2	Concept 1	Concept 2	Concept 1	Concept 2
Time to Implement						
Target Group						
Resource Considerations (systems, stakeholders)						



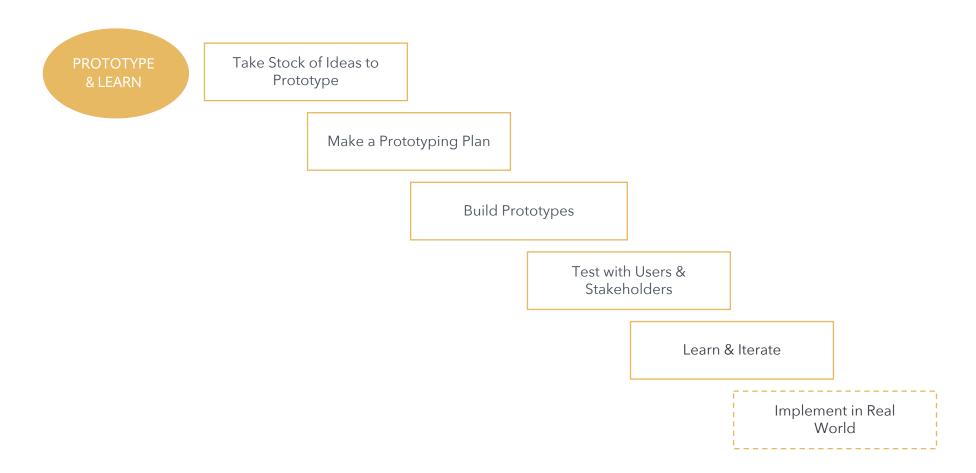


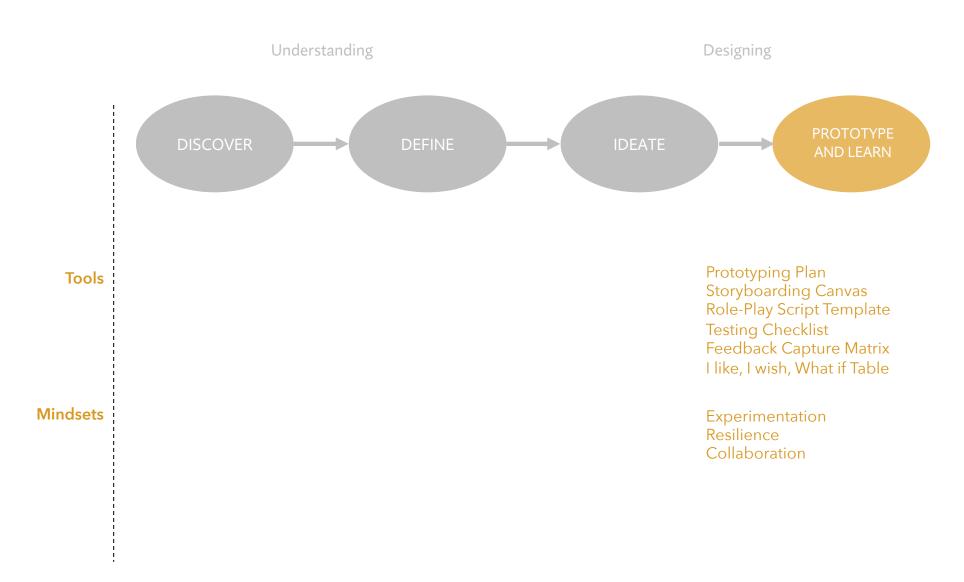
Prototype & Learn

Actively engaging communities to improve ideas

- 1. Prototyping Plan
- 2. Storyboarding
- Role-Play Script Template
- 4. Testing Checklist
- 5. Feedback Capture Matrix
- 6. Hike, I wish, What if Table

Overview of Prototype and Learn





Prototyping Plan



What it is:

A guided structure to help decide the purpose, function and techniques to build a prototype.

Why it's needed:

To identify the factors or aspects of the idea to build as a prototype, and the most appropriate technique to build it.

Output:

Identified variables (i.e., features / functions of the solutions) to prototype and test for

Who can use it:

Any individual / teams that are prototyping a solution

How to use it:

- Follow the instructions on the table and fill up the details.
- This table can also be replicated using post-it notes on the wall or recreated on a flip chart.

When to use the tool:

When deciding on the purpose of the prototype and what factors to test for.

Prototyping Plan

Idea Give a brief description of the concept	Goals List down the expected outcomes of this concept	Assumptions & Questions Identify the assumptions & questions you need to validate or ask	Factors to Test List down some features / aspects of the ideas that you want to build with the prototype and test.

Storyboarding Canvas



What it is:

A template that helps teams plan and visualize the story of the idea/ solution and how the user interacts with it.

Why it's needed:

Storyboarding requires thinking through different elements like persona, their journey and environment, the solution's impact on them etc. The template helps one think through and capture these details.

Output:

A well-thought-out storyboard prototype that illustrates the emotional and functional impact in the target user/group's lives.

Who can use it:

Any individual / team interested in using storyboarding as a prototyping technique.

When to use the tool:

When building a storyboard prototype of your solution

How to use it:

- Review your ideal user experience story.
- Discuss with your team and sketch this story in a simple manner.
- Use the storyboard canvas template start drawing.
- Determine elements like the number of scenes, location, what are characters thinking, feeling, doing etc.

Storyboarding Canvas

Title	Title	Title
Scene 1	Scene 2	Scene 3
+ † + Who is involved	+ the Who is involved	+ † + Who is involved
What are they saying?	What are they saying?	What are they saying?
What are they doing?	What are they doing?	What are they doing?
How is the user feeling?	How is the user feeling?	How is the user feeling?
Where does it happen?	Where does it happen?	Where does it happen?



Role-Play Script



What it is:

A template that helps teams plan a role-play of the idea/ solution and how the user interacts with it.

Why it's needed:

Role-play requires thinking through different elements like persona, their journey and environment, the solution's impact on them etc. and translating this into a audio-visual format. The template helps plan for this.

Output:

A well-thought-out role-play prototype that illustrates the emotional and functional impact in the target user/group's lives.

Who can use it:

Any individual / team interested in using role-play as a prototyping technique.

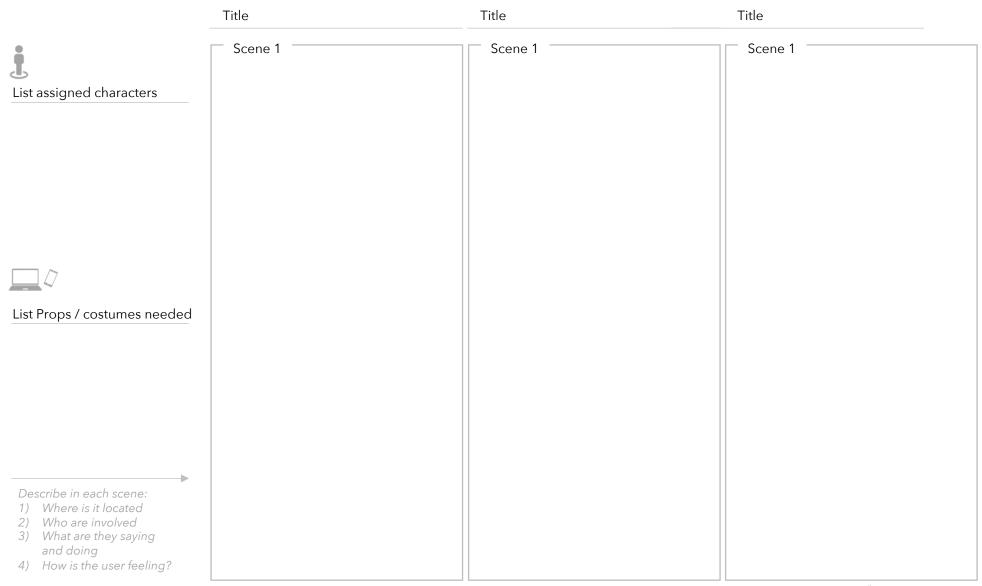
When to use the tool:

When building a role-play prototype of your solution

How to use it:

- Review your ideal user experience story.
- Discuss with your team about the number of scenes and location.
- Assign characters and roles to everyone.
- List the props & costumes if you plan to use any.
- Write down what each of them are going to say, do and express their emotion.
- Share this script amongst the team to rehearse the role-play.

Role-Play Script





Testing Checklist



What it is:

A checklist that helps individuals and groups plan out the prototype testing process with their users and stakeholders.

Why it's needed:

- To help identify and setup most suitable environments for eliciting rich user feedback.
- To identify questions to be answered through testing, and factors for observation.

Output:

A prototype testing plan for teams to coordinate and execute

Who can use it:

Any individual or team that is planning a prototype testing with users / stakeholders

When to use the tool:

- After prototyping, when thinking through and deciding on a plan for prototype testing with target users / groups.
- Tables 5 can be revisited and table 6 can be used in the beginning stages of pilot testing.

How to use it:

- Fill out the tables as per the prompts and questions provided.
- Use Tables 1 to plan for prototype testing with users for desirability.
- Use Tables 2 to plan for prototype testing with stakeholders for feasibility. This
- Use Table 3 to determine the logistics and requirements for planning a prototype testing session.
- Use Table 4 at the initial stages of pilot testing to make a preliminary evaluation plan

Testing Checklist - Desirability (Table 1 of 4)

PROTOTYPE IDEA DESCRIPTION:				
BASIC INFORMATION	TESTING CRITERIA & INDICATORS			
List the main objectives / Goal of your prototype:	DESIRABILITY: What do you want to learn about your <u>target</u> <u>users</u> / groups? List down your questions below.	INDICATORS FOR DESIRABILITY: Define Indicators for Observation and Learning		
What factors are going to be prototyped:				
Potential Risk / Constraints in the prototype:				



Testing Checklist - Feasibility (Table 2 of 4)

PROTOTYPE IDEA DESCRIPTION:				
BASIC INFORMATION	TESTING CRITERIA & INDICATORS			
List the main objectives / Goal of your prototype:	FEASIBILITY CRITERIA: What do you want to learn from your stakeholders? List down your questions below.	FEASIBILITY INDICATORS: What do you want to learn from your stakeholders? List down your questions below.		
What factors are going to be prototyped:				
Potential Risk / Constraints in the prototype:				



Testing Checklist - Set-up (Table 3 of 4)

Testing Set-up
Target User Group: Primary target group, secondary target group, archetype etc.
Testing Environment & Set-up: Formal / Informal / Real-world etc.
Testing Team Roles: Who does what - leading conversation, observing, note-taking etc.
Feedback Gathering Methods: Observation Only, Experiential interaction + conversation, Written Feedback Forms etc.



Testing Checklist - Pilot Success Indicators (Table 4 of 4)

PROTOTYPE IDEA DESCRIPTION:				
BASIC INFORMATION	PILOT INDICATORS & EVALUATION METHOD			
List the main objectives / Goal of your prototype:	INDICATORS: What are you going to measure to determine the success of the pilot? EVALUATION: How are you going to measure these indicators?			
What factors are going to be prototyped:				
Potential Risk / Constraints in the prototype:				



Feedback Capture Matrix



What it is:

Feedback capture matrix facilitate real-time capture of feedback on prototypes using a simple structure.

Why it's needed:

To give feedback on progress within the team or to capture user feedback.

Output:

Captured notes from prototype testing or review to share and synthesize with the team.

Who can use it:

Prototype testing teams internally or along with users

When to use the tool:

This is a useful tool during testing, as it helps us capture information in a simple and quick manner.

How to use it:

- The matrix itself arranges thoughts and ideas into four categories for easy assessment.
- Section off a blank page or whiteboard into quadrants. Draw a plus sign in the upper left quadrant, a delta sign in the upper right quadrant, a question mark in the lower left quadrant, and a star in the lower right quadrant.
- Fill in the matrix as you give or receive feedback as per the instructions in the quadrant.
- If you're giving feedback, strive to give input in each quadrant (especially the upper two: "likes" and "wishes").
- Use the 'making sense of your feedback'

Feedback Capture Matrix Notable / likeworthy △ Constructive criticism ☆ New Ideas Questions



I like, I wish, What if table



What it is:

I like, I wish, What if (IL/IW/WI) is a simple tool to encourage open feedback. This is particularly useful to encourage open communication between team members as well as with users.

Why it's needed:

Helps individuals by giving them a structure to talk about a prototype they have experienced.

Output:

Captured notes from prototype testing or review to share and synthesize with the team.

Who can use it:

Teams along with users and stakeholders

When to use the tool:

- During team review and feedback sessions of prototypes.
- Prototype testing with users or stakeholders

How to use it:

IL/IW/WI is almost too simple to write down, but it's too useful not to mention. Meet as a group. Team members chime in by expressing "likes," "wishes," or "what ifs" as succinct headlines.

"I like how we broke our team into pairs." "I wish we had discussed our plan before testing." "What if we tried one more prototype?"

Share dozens of headlines in a session (be sure to pick someone to capture). You don't need to respond to everyone. Let the team decide which topics to discuss as they arise.

I Like, I Wish, What if

l like	P	I Wish	What If





Applying HCD

- Data Points for HCD within LISTEN
- 2. HCD Roadmap

Actively engaging communities in Human Centered Design

Data Points for HCD Within LISTEN



What it is:

A template to think through and capture data points to measure the impact of HCD.

Why it's needed:

Documenting HCD efforts and measurements of impact are useful for sharing externally to demonstrate efforts as well as internal

Output:

A table for determining which data points to track HCD impact and how they will be measured

Who can use it:

Anyone can use to plan the measuring and evaluating of HCD in their problem-solving efforts.

How to use it:

- Review with your LISTEN team what types of data you want to capture (ie LISTEN key indicators, data stakeholders interested in, data to show effort with HCD)
- Use any of the provided categories and add any additional ones
- Determine what you will measure and how you will measure it

When to use the tool:

This tool can be used at various points throughout the process including:

- Integrating HCD in a new project
- Implementing an intervention created through HCD process
- Engaging with a new CP with HCD

Data Points for HCD Within LISTEN

Data Category	Indicators - what are you going to measure?	Evaluation - how are you going to measure?	
Regional Key Application Indicators			
Implementation of the Intervention			
Collaboration Efforts with LISTEN & CPs			



HCD Roadmap



What it is:

A plan for implementing HCD beyond the workshop.

Why it's needed:

To maintain momentum and plan out how to implement HCD within the LISTEN team's efforts.

It also serves as an accountability tool, to see how efforts are progressing.

Output:

A plan for implementing HCD that can be referenced for progress.

Who can use it:

Anyone can use to plan out their HCD implementation. Suggest planning with others for alignment.

When to use the tool:

While this tool was created to build on the HCD course and continue action, this tool can be used at any point when considering how and where to apply HCD. This can assist internal teams reflecting on what they planned and what actually occurred. It could also be used with external audiences to demonstrate steps of the process and where they could be involved.

How to use it:

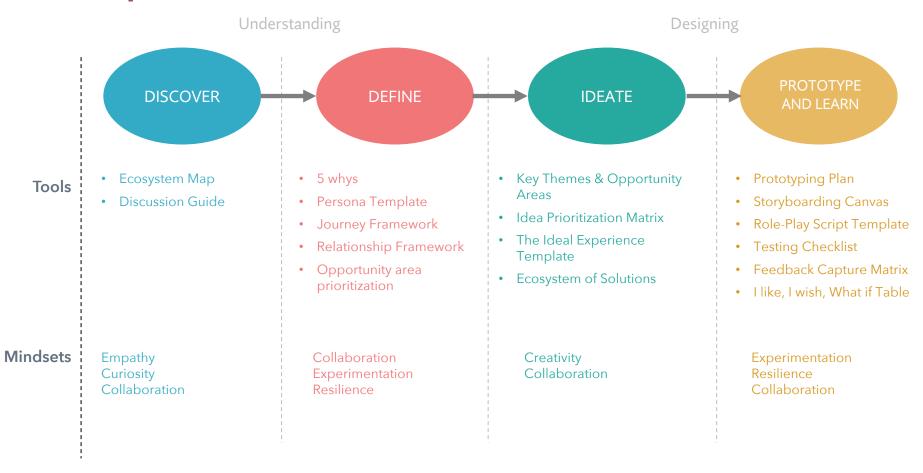
- Begin with identifying a timeframe to plan for (ie months, weeks, quarterly)
- Identify what your goals / objectives are for the timeframe
- Select activities that are achievable within the timeframe. Identify ones that rely on outside resources that could cause a delay
- Identify any resources, stakeholders, systems your team needs to involve
- Add any additional information to consider

HCD Roadmap

Problem Area: State the problem you wish to address with HCD.		Target Audience: List the beneficiaries of your HCD solution		
Milestones List your timeline measures (weeks, months etc.)	01	02	03	
Goals / Objectives List goals & objectives to accomplish for the month				
Activities Note down related activities you need to carry out in order to achieve your goals.				
Systems / Stakeholders / Resources List the help and resources you need to achieve your goals.				
Additional Notes Any comments / thoughts to make note of.				
Facilitator Recommendations HCD Facilitator can provide guidance on the roadmap here.				



Recap



Human Centred Design | Recap