phase D Collaborative Design, Transformation and Testing

D.1 - Ancient monasteries as possible prototype

Lecturer: Luigi Bartolomei, Francesco Lipparini

D.2 - prototype as community engagement build your prototype

Lecturer: Anna Szilágyi-Nagy

D.3 - sharing / testing prototypes session it is your turn to lecture us!

















Prototype as community engagement

by Anna Szilágyi-Nagy















phase D, session n. 12 Collaborative Design, Transformation and Testing

AGENDA D.2

Welcome, overview of previous lecture - 5 minutes

What is a prototype and how to do it? - 30 minutes

Build your prototype (Mural) - 30 minutes

Sharing prototypes in plenary - 15 min

Assignment and structure - 10 minutes

let's start























































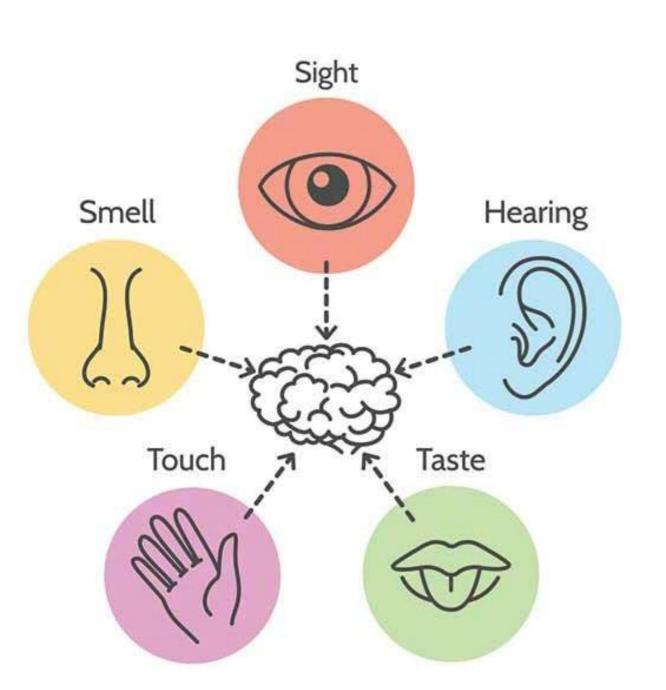








perceived through the senses tangible or concrete can involve bodily contact or activity



- + sight
- + smell
- + hearing
- + touching
- + tasting
- + movement
 - + balance
- + interoception

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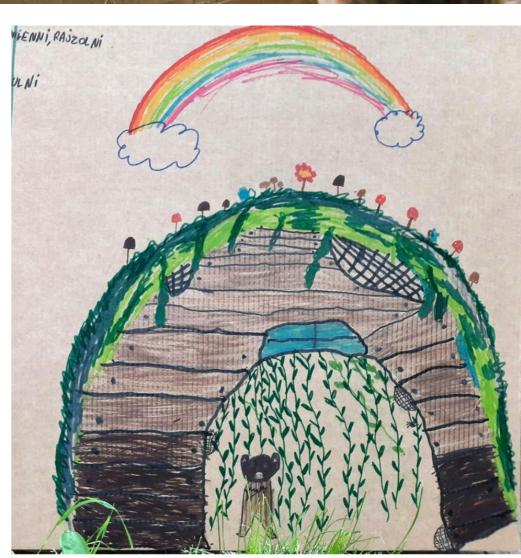
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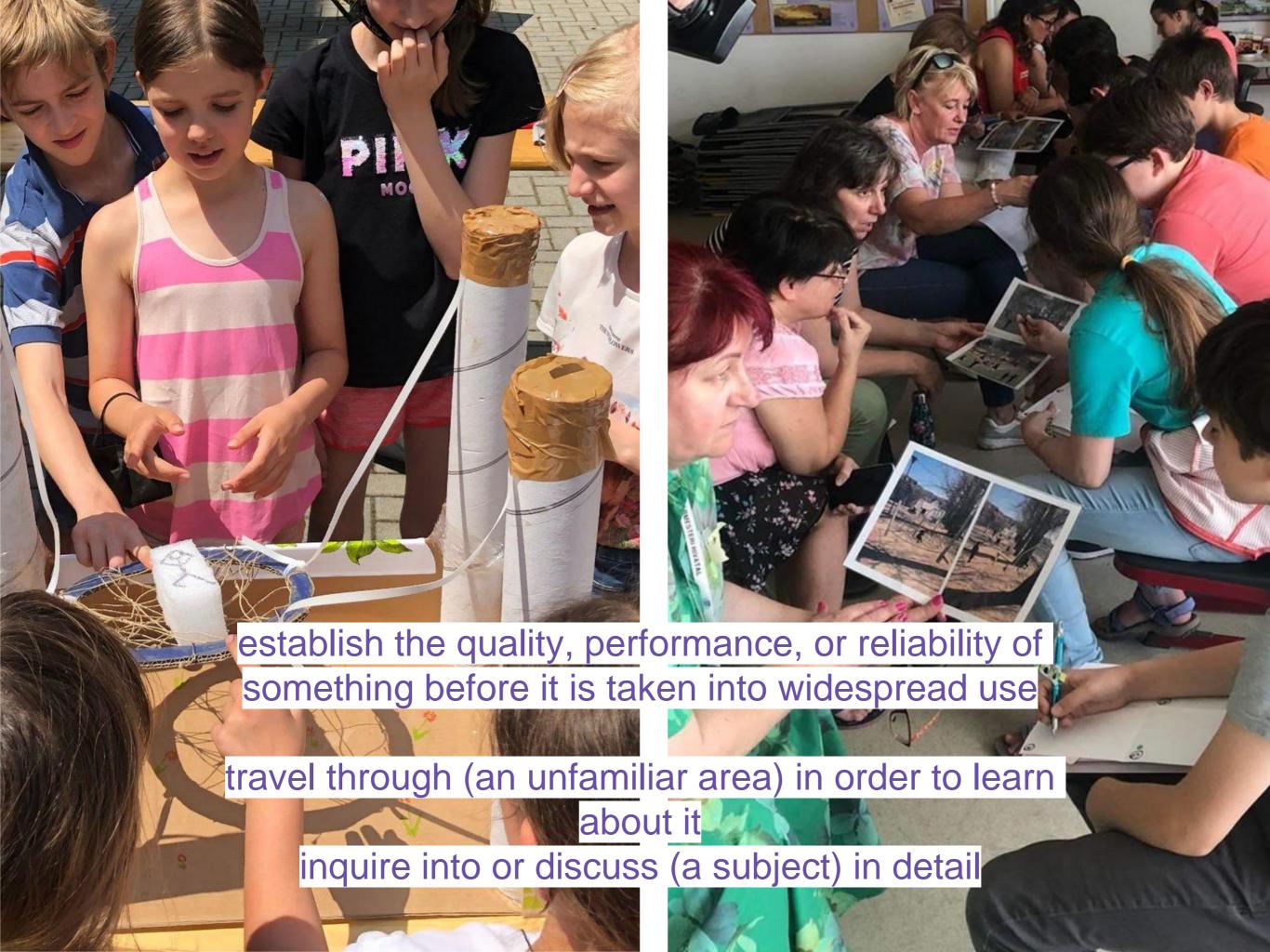












physical manifestation of ideas that allows people to test and explore the technical and social feasibility of an idea

how one interacts with others within a system or an organization





















Why do we need Prototypes?

in the low-risk phase

- test designs and ideas

- see how people use the design
- understand their experiences
- collect feedback
- develop the design further based on feedback
- refute assumptions
- ensure the design concept works
- generate shared understanding











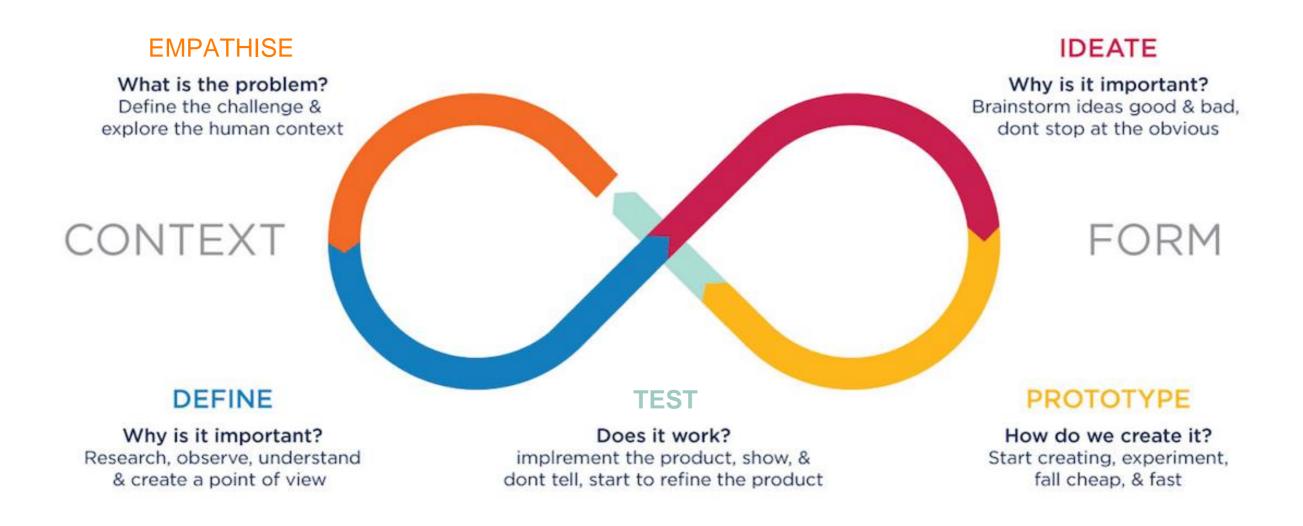






The Prototyping Process > Iterative

Prototype > Test > Feedback > Iterate > Test > Feedback ...



















What makes prototypes different from other 'making' activities in a co-design process?









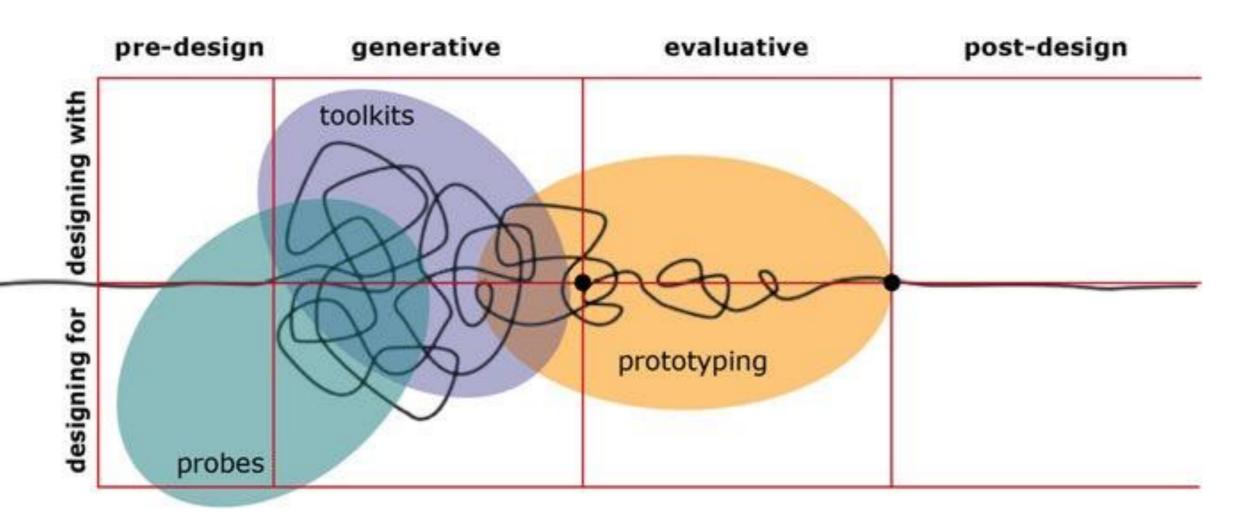








Prototypes as a form of making are used in the evaluative phase of design



Three approaches to making located along the timeline of the design process (Elizabeth B.-N. Sanders and Pieter Jan Stappers, 2013)

Probes: tools that participants use remotely (e.g. polaroid camera) to inspire design **Toolkits:** materials with instructions that generate (design) ideas during workshops **Prototypes:** physical manifestation of ideas (e.g. models, scenarios)













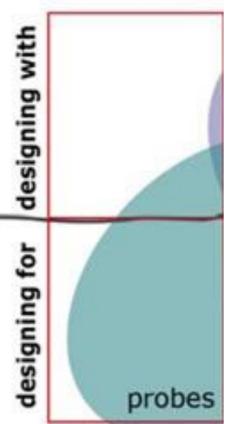




user as subject

What is the context of people? What do they feel, experience, dream?

pre-design







Probes / engagement tools for inspiration

- tools that participants use remotely and asynchronous without facilitation (e.g. polaroid camera, diaries, workbooks, etc.)
- designers create them
- people reflect on and express their experiences, feelings and attitudes in forms and formats that provide inspiration for designers
- results are sent back to the designer











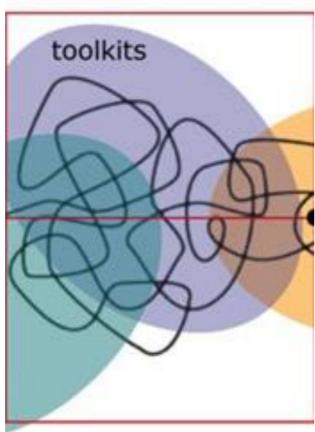




user as partner generative

What will be useful? Usable? Desirable?









Toolkits / engagement tools for ideation

- tools that participants use during facilitated collaborative activities (toolkit can include pictures, words, phrases, blocks, shapes, buttons, wires, etc.)
- designers and researchers create them
- people (non-designers) use the participatory design language of the toolkit to imagine and express their own ideas about how they want to live, work, play, etc.
- results are (artefacts and descriptions or enactments of their use) can be analysed to find underlying patterns.















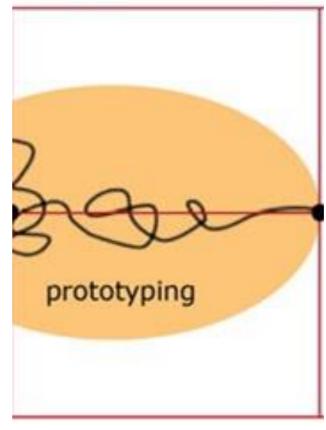


Is the concept useful? Usable? Desirable?

user as subject and as partner

evaluative







Prototypes / physical objects for testing

- physical manifestation of ideas that allows people to test and explore the technical and social feasibility of an idea (e.g. clay, foam, wood, plastic, simple digital and electronic elements)
- codesigners create them
- people (designers and non-designers) envision their ideas and display them to get feedback on these ideas from other stakeholders
- results are visualisations (e.g. scenarios, storyboards, models, etc.)

















The Design Process > 'Making' during different Phases

The besign i rocess > making during different i mases			
Design Phases	Pre-Design (> Generative)	Generative (→ Evaluative)	Evaluative
'Making'	Probes (for inspiration)	Engagement Toolkits (for ideation)	Prototypes (for testing)
What?	Objects which provoke or elicit response. E.g: a postcard without a message, or a polaroid camera to use remotely	Specifically designed for each project's context. Participants use the toolkit components to make artefacts (eg: model a neighbourhood, or make a mapetc)	Prototypes are physical manifestations of design ideas and concepts. They range from rough ones (giving an overall idea only) to testing the actual design (high fidelity ones)
Why?	To find inspiration in participants' reactions and gain insight into their lives and values	To give participants means (tools) with which to participate in the co-designing process	To give form to an idea, and to explore feasibility, get insight from participants
From what (materials)?	Examples: diaries, workbooks, polaroid cameras with instructions, etc.	Toolkits are made of a variety of components, Eg: pictures, words, phrases, blocks, shapes, buttons, wires, etc.	• • • • • • • • • • • • • • • • • • • •
Who uses?	The probes are sent out to participants often with little or no guidance – so it can be creatively and provocatively used, and then sent back to the designers	Toolkits work with individuals or small groups. The process is normally facilitated. Participants use the toolkits to imagine and plan for the future, for change (Elizabeth BN. Sandersa	Designers create the prototypes to envision their ideas, to display and to get feedback from participants * and Pieter Jan Stappers, 2013)

















What types of prototypes do you use to test your (design) ideas

in landscape architecture?













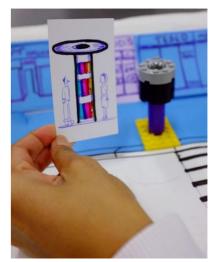




Familiar formats but using them for testing ideas and receiving feedback!







modifiable digital models e.g. streetmix or Minecraft or analogue models e.g. 'Colorful Community, Govanhill'



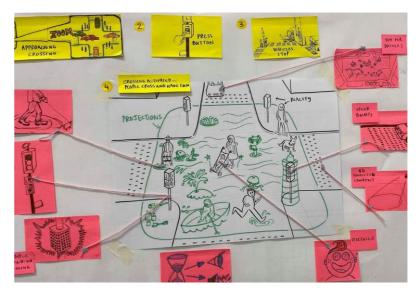


more complicated formats such as 3D games e.g. 'Participatory Chinatown' in blended engagement event Augmented reality as conversation triggerer during site walks, e.g. 'Billeniar square'

Check out ideas for low fidelity and high fidelity prototype ideas for the prototype bank!







mind maps, storyboards, gifs, ppt, sketches, etc. e.g. collage with children engagement in Törökbálint, comic books at Waterplaza Rotterdam, Performative prototyping for pedestrian crossing design, Glasgow

















how to do it?













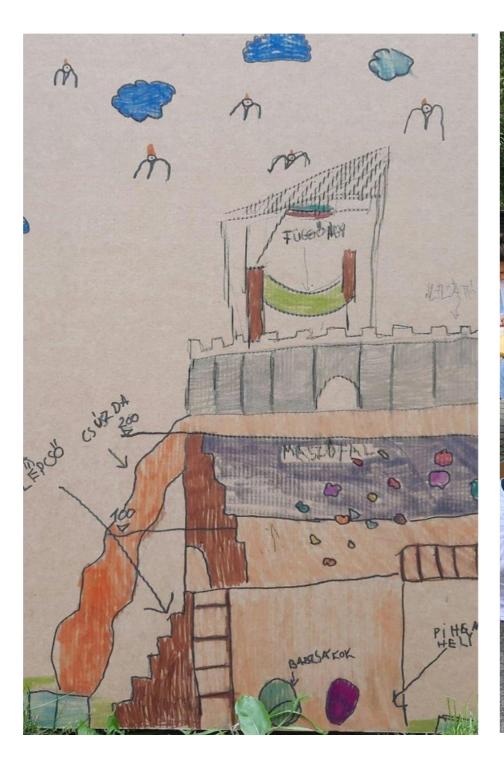




Prototyping Glossary

Low-fidelity **Prototypes**

- Cheap, tangible
- Quick representations of ideas
- Test functionality
- For rapid experimentation



















Prototyping Glossary

High-fidelity Prototypes

Appear and function as similar as possible to our design

Portland, Oregon, USA



https://bikeportland.org/2016/02/11/a-closer-look-at-the-better-broadway-pop-up-protected-bikeway-174752

Melbourne, Victoria, Australia



https://www.vicroads.vic.gov.au/traffic-and-road-use/cycling/pop-up-bike-lanes















The Prototyping Process



1. Design / build prototype:

- Quick ideas

Don't get emotionally attached to your ideas

- Cheap design

Pros: quicker + easier to modify if needed

Examples: storyboard, paper cutout, miniature model, performance

- Empathise
 Design/build with the Participant in mind
- Create an engaging / interactive experience

















The Prototyping Process



2. Testing the prototype:

- Ice Breaker!
 to create trust and a safe place
- What are the roles?
 who is facilitating, taking notes, documenting?
- Plan your questions
 What do you want to understand?
- Document
 the use and feedback
- Consent forms













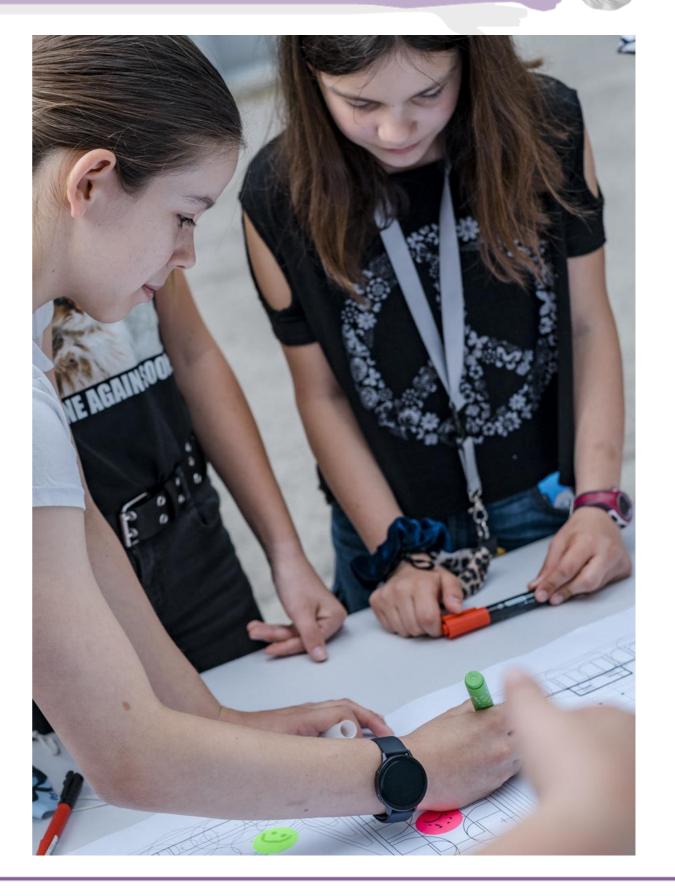




Ethics - When working with Participants

1. Consent Form:

- Vulnerable context
 (eg. young people)
 caretaker's or parents consent
- Communicate participant rights
- Anonymity
 do participants wish to remain
 anonymous in the documentation?
- Agreement to their responses being used
- Data storage and disposal GDPR policy



















2. Unexpected questions

3. Ethical documentation (e.g. do they agree to their photos being taken?)

4. Power dynamics

'Ladder of participation'
Are you a Facilitator?
Are you a Participant-Observer?
What is your role? (co-design vs co-creation)

5. Open-ended design

to encourage interaction and feedback

















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30 min mural exercise + 15 min sharing

CHOOSE THE ACTION / DESIGN TO BE TESTED! (10 min)

Review Step 7 in the Nominal Group Technique Practice. Choose what action / design idea you want to test with a prototype!

First, gather your ideas individually on a post it! Then, share your own ideas with the group. Discuss and decide which action or plan you want to test. If necessary, you could also organize a voting session.



FORMULATE THE PURPOSE OF THE PRORTYPE! (5 min)

Now that you have selected the action / design to be tested, it is time to formulate the purpose of the prototype! Each team member should complete a post it about what they would like to know about the action / design selected in the previous exercise. Also state who you would like feedback from and where the testing will take place. Agree on a scenario!



DESIGN YOUR PROTOTYPE! (15 min)

What kind of prorotype will help answer your question? (prototype + interview, prototype + observation, etc.) Think with the group about the material of the prototype, the interaction it has with the target group, and at what event you use your prototype? Visualize your ideas with icons, images found on the web, arrows here!

Show the visualization in the plenary!

https://app.mural.co/t/kulturaktiv6589/m/kulturaktiv6589/1654587804972/5c1376460ec9b8ecefeb212e6c3907c9760d90db?sen der=u4ff30346caf8feb2e24f1261

















now we sort you into breakout rooms!

https://app.mural.co/t/kulturaktiv6589/m/kulturaktiv6589/1654587804972/5c1376460ec9b8ecefeb212e6c3907c9760d90db?sen der=u4ff30346caf8feb2e24f1261

Breakout 1

Breakout 2

Breakout 3

Breakout 4

Breakout 5

Breakout 6

Breakout 7

Breakout 8

















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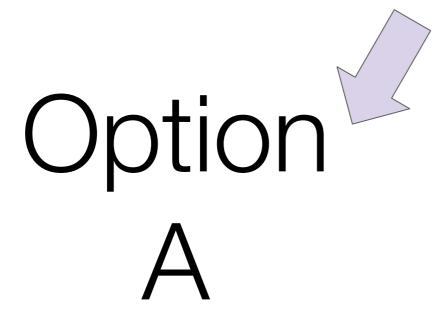






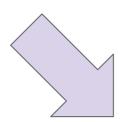
Prototyping as engagement - Test your design idea with a prototype!

Your task is to create and test a prototype with the target group of your choice at an event of your choice! Gather people's feedback during testing and incorporate it into the design process. You have two options for doing your assignment:



If you had prototype testing with your community, report what it was like!

use **ppt** template for D.3 sharing



Option B

If you haven't had prototype testing with your community, get ready for it through a role play!

use **mural** template for D.3 sharing

















Prototyping as engagement - Test your design idea with a prototype!

To sum up - How to proceed with this assignment?

Step 1 - during D.2 session you will develop your research question within your group and build the first version of your prototype.

Step 2 - during D.3 introduce your prototype to the others. You have two alternatives to select from:

A) you had the chance to test it with your community. In this case you introduce the results of the testing. Simply follow the instruction of the ppt template. https://docs.google.com/presentation/d/1MvYL8-sQtNCnYdNpniMTNmg3JYFr3c0TifM1M3h9Wg/edit#slide=id.gd7b33e2427 0 0

OR

B) you had no chance to test it with the community. In this case, follow the description in mural and prepare a role playing game in which your audience plays the role of your selected community. Test your idea and collect feedback. https://app.mural.co/t/kulturaktiv6589/m/kulturaktiv6589/1654601277632/874958 05fd248c27c1378d46e994c5d4e1d0bc74?sender=u4ff30346caf8feb2e24f1261

Step 3 - Use the slides or your murel to upload your results to the ledwiki. Enjoy!















Check out ideas for low fidelity and high fidelity prototype ideas for the <u>prototype</u> <u>bank!</u>

Prototype bank

Get inspired! I. - low fidelity paper prototypes Get inspired! II. - high fidelity and digital prototypes















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Lecturer: Luigi Bartolomei, Francesco Lipparini

D.2 - prototype as community engagement

build your prototype

Lecturer: Anna Szilágyi-Nagy

D.3 - sharing / testing prototypes session

it is your turn to lecture us!















