#### **Case Studies in Design Informatics 1 - INFR11094**

Week 10, 18<sup>th</sup> November 2024

## **Co-Design**

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(slides originally by John Vines)



THE UNIVERSITY of EDINBURGH



## What we will do today

- Co-design fundamentals
- Co-design theory
- Co-design in practice





## **Co-design fundamentals**

## A brief history of "design"







#### A very brief history of "design"











## A very brief history of designing interactive technologies



Bundesarchiv, Bild 183-1989-0130-010 Foto: Grubitzsch (geb. Raphael), Watraud | 30. Januar 1989

Grubitzsch (geb. Raphael), Waltraud. Copyright terms and licence:CC-Att-SA-3 (Creative Commons Attribution-ShareAlike 3.0)

Since the 1970s, it's been recognized that to "design" complex interactive systems, you need expertise across multiple fields and disciplines:

- Expertise about how people think psychology (perception, cognitive, ecological, social)
- Expertise on how people physically interact (human factors)
- Expertise on how people talk and communicate and interact (linguistics, ethnography)
- Expertise on how the systems work (computer science, AI)
- Expertise on how to translate this into user interfaces (interface and interaction design).





But ... what expertise is missing?

## the person who uses the technology!





### A question for you all...

# Why should we involve users in the design process of new technologies (and products, services, systems) that they use, work and live with?

https://miro.com/app/board/uXjVLF7m1h8=/?share\_link\_id=805114095118





How is the role and skills required of a designer changing as a result of increasing co-design?





## **Co-design** – what is it?

'[an] approach towards computer systems design in which the people destined to use the system play a critical role in designing it.'

Schuler & Namioka, 1993, p.xi. Participatory design: Principles and practices



User = expert in experience and a creative agent Researcher/Designer = expert in facilitation and technical knowledge

Sanders & Stappers. 2008. Co-creation and the new landscapes of design.





#### Co-design – what is it?



#### Folk definition:

Inclusion of non-designers in design activities

#### More precise definition:

Inclusion

of people that will be affected by design, often along professional designers,

in activities that alter the material and social shape of design for/in its eventual use context

in a direct way, and not only "by proxy" through informing, consultation or funding,

in decision making during the process and regarding desirable outcomes.





Hyysalo. 2017. Co-design in the era of user participation. https://www.youtube.com/watch?v=a6OpHyxtjOE





Is it possible to think of co-design as a sub-component of co-creation, with co-creation being the broader concept?

Does Co-creation mean that designers and users cocreate? What is the difference between this and codesign?





#### "Co"-what?

#### co-operative design

Participatory design (with a big P)

participatory design (with a little p)

The original term for Participatory Design used in Scandinavia in the 1970s-late 1980s

A view of end-user involvement in design to destabilise power structures and empower workers/users

A view of end-user involvement in design to inform more approximately designed systems and provide grounded insight

**co-design** (collaborative design)

A balanced and integrative approach to broad stakeholder and user involvement in design

As per co-design, but with core principle that all people (and not just designers) are creative and create their own systems



co-creation

## A bit of co-design "theory"

#### **Traditions vs Transcendence**



a fundamental tension in all 'user-focused' systems design is balancing an understanding and incorporation of existing traditions with providing opportunities for individuals to transcend and break existing boundaries

Ehn. 1989. The Art and Science of Designing Computer Artifacts





#### Workshops in co-design

'... workshops are usually held to help diverse parties ("stakeholders") communicate and commit to shared goals, strategies, and outcomes (e.g., analyses, designs, and evaluations, as well as workplace-change objectives). Workshops are often held at sites that are in a sense neutral – they are not part of the software professionals' workplace, and they are not part of the workers' workplace.'

Muller, 2003, p.1060. Participatory design: The third space in HCI



"future workshops" - Kensing and Madsen. 1991. Generating visions. Future workshops and metaphorical design.





#### Say, Do and Make SAY MAKE DO **CONVIVIAL** TOOLBOX GENERATIVE RESEARCH FOR THE FRONT END OF DESIGN ELIZABETH B.-N. SANDERS & FIETER JAN STAPPERS WHAT PEOPLE: KNOWLEDGE METHODS SURFACE SAY INTERVIEWS THINK EXPLICIT DO OBSERVATION OBSERVATIVE **USE** GENERATIVE TACIT KNOW SESSIONS FEEL DREAM LATENT DEEP

Sanders & Stappers. 2012. Convivial toolbox: Generative research for the front end of design.





#### Say, Do and Make



Sanders & Stappers. 2012. Convivial toolbox: Generative research for the front end of design.





#### Make, Enact, and Tell



Sanders & Stappers. 2012. Convivial toolbox: Generative research for the front end of design.

You can break down "Make" methods further and think about them as:

- **Make** inviting people to "make" things that representing their knowledge, their feelings, their dreams
- Enact inviting people to enact ideas and the things they make, to try things out, to walkthrough future situations
- Tell inviting people to tell us stories, about their lives now but also their lives in the future and how their future lives might change through the things they have made and enacted





## Take a break! Back at 16:10





## **Co-design in practice**

... learning about probes and codesign, it seems that these design processes need to be designed themselves [...] it does make me wonder about whether a formal design process should be used to, for example, design probes.





Can probes be used as part of the codesign process? Do they have any affiliation or connection?

> I think they both involve stakeholders in the design of the project? Is it possible to give some case studies for comparison?





## **Co-design in practice – Connecting Carers**







#### **Co-design in practice – Getting to know each other**



## **Co-design in practice – Getting to know each other**





## **Co-design in practice – Connecting Carers**







#### **Co-design in practice – Cultural Probe co-analysis**





in the right mug, tes is so contouring.

a Source of his





Something que Schers



- Please take a picture of:
- 1. Your home
- 2. What you enjoy
- 3. A source of comfort
- 4. Where you spend a lot of time
- 5. What you'd like more of
- 6. What you rely on
- 7. What you find difficult

- 8. A source of wisdom
- 9. What is significant to you
- 10. What helps you
- 11. What you'd like to give others
- 12. What is time consuming
- 13. A thing of beauty
- 14. Something ugly









#### **Co-design in practice – Cultural Probe co-analysis**







## **Co-design in practice – Connecting Carers**







#### **Co-design in practice – Making magic machines**

*"imagine you are transported through time from 2116 to the present day. You have brought back a magical device that is used by carers of the future to communicate with one another. What is it?"* 





## **Co-design in practice – Making magic machines**







## **Co-design in practice – Connecting Carers**







#### **Co-design in practice – Low-fi testing of concepts**







#### **Co-design in practice – Low-fi testing of concepts**



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#### **Co-design in practice – Low-fi testing of concepts**







## **Co-design in practice – Connecting Carers**







#### **Co-design in practice – Co-designed outcome**









#### **Co-design in practice – Co-designed outcome**



https://vimeo.com/uniofbath/tacklingloneliness





## Another example: Co-design for Social Innovation



Ezio Manzini (2015). Design, When Everybody Designs: An Introduction to Design for Social Innovation. MIT Press. http://dx.doi.org/10.7551/mitpress/9873.001.0001

"Manzini distinguishes between *diffuse design* (performed by everybody) and *expert design* (performed by those who have been trained as designers) and describes how they interact. He maps what design experts can do to trigger and support meaningful social changes, focusing on emerging forms of collaboration."

#### From The Open Book of Social Innovation — SI involves:

- alliances between the top and the bottom, ... the 'bees' (the creative individuals with ideas and energy) and the 'trees' (the big institutions with the power and money to make things happen to scale)
- the creative blending of ideas from multiple sources
- creative blending and recombination of disparate elements and ideas
- the use of mapping techniques to reveal hidden needs and unused assets

Murray, R., Caulier-Grice, J. and Mulgan, G. (2010). The open book of social innovation. National endowment for science, technology and the arts, London. <u>https://www.nesta.org.uk/report/the-open-book-of-social-innovation/</u>





### Another example: Co-design for Social Innovation



The "Social Innovation spiral": from the bees to the trees

Cheung-Nainby, P., and Lee, J. (2018) Transformative Learning: co-design with communities' collective imagery as data for social innovation, in Storni, C., Leahy, K., McMahon, M., Lloyd, P. and Bohemia, E. (eds.), *Design as a catalyst for change - DRS International Conference 2018*, 25-28 June, Limerick, Ireland. https://doi.org/10.21606/drs.2018.360

Mezirow, J (1997). "Transformative Learning: Theory to Practice". New Directions for Adult and Continuing Education. 1997 (74): 5-12. <u>https://doi.org/10.1002/ace.7401</u>

## Participatory co-design workshops, aiming to produce prompts and proposals

- "collective imagery" as codesign framework
- shared by codesigners for conceptual structuring
- realised in a tangible, embodied form
- a collective space to envision/enact design complexity
- perhaps also a process of transformative learning (Mezirow)

— "becoming critically aware of one's own tacit assumptions and expectations and those of others and assessing their relevance for making an interpretation"

Challenge: to capture the local workshop outcomes and relate to broader, perhaps global scales

• approached by treating "weave" structure as data







#### Approaches to analysis (1)





#### "Ontologising the workshop"

schema: PriceSpecification

Safe issue

185 Avoid congestion	d congestion ideal		20	14/06/2016 Coventry	
186 Bus not arriviling	fear	Green	20	14/06/2016 Coventry	
187 Just in time taxl	ideal	Orange	20	14/06/2016 Coventry	
188 live bus time	good	Yellow	20	14/06/2016 Coventry	
189 miss apointment	OldAge	Blue	20	14/06/2016 Coventry	
190 No bus light	fear	Green	20	14/06/2016 Coventry	
			I want to get to hospital with an		
191			20 appointment, but there is congestion	14/06/2016 Coventry	

dbo:Service

Emergent Service

dbo:Design

Product Design

Transport Product

Bus design

Tram design

Waiting area

Display design

Battery design

Small car design

Info. Product

(Accessing Product )

Reused Class

Product Design

Transport

Bus desig

instance

Security

Service Design

Property

subPropert

provideDesign

- productDesign

policyDesign

disabled

hasissue

SIO:healthy

Physical issue

Mental issue

Transportation Service

Shuttle Service

Taxi Service

Policy Design

(Info. Service Design)

Transport Design

Communication

Man

Road info

Timetable

Congestion

Non motor vehicle

Parking design

Road design

Shuttle design

dbo: BouteOfTransportatio

	Group	1	1 2	1 3	4	1	5 6	i	7	8 9	3
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Weather		attack	how to pay	isolation	lane switchnes	s texting wh	linconvinient	s efficiency of ro	ou low cost	moving too s	c fun at nie
		safe	covered stop	close to ho	raccomodating	s inexpensiv	e outdoors	frequent	refresh	timely	can take
Participant (threadia: politican)		fast	very clean	density	ease of use	embark	shoveled wal	I information	trains	excise	flat terra
		time	crowds	exhaust	traffic	netfloors	high speed to	rifriendly	on time	access for all	stops at
		angry	limit	speed	bad weather	distance se	r limited walt	comfortable	courtesy	central resou	n bike focu
		quick	\$	environmen	options	quite	crime	physical limita	ti bad sidewalks	miss travel	data stol
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	p(R)	0.9	5 0.6	0.3	0.9	5 0.	4 0.1	0.	5	0.6 0.3	1 0
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https://doi.org/10.21606/drs.2016.407







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#### Approaches to analysis (2)

4.29 ASYMMETRIC CLUSTERING MATRIX

the vil**l**age

#### **COLLECTIVE IMAGERY ANALYSIS #1**



#### 4.30 ASYMMETRIC CLUSTERING MATRIX COLLECTIVE IMAGERY ANALYSIS #2





#### Village 2 CangDong — Envisioning future scenario

Federica Bagini, VILLAGE REGENERATION: creating a widespread service-system to enhance educational tourism around CangDong, Master of Science in Product Service System Design, politecnico di milano, School of Design, 2015/16



#### Another question for you all...

## What could be the difficulties and challenges for involving people (users, participants, "non-designers") in a design process?

https://miro.com/app/board/uXjVLF7m1h8=/?share\_link\_id=805114095118





## What tools and techniques are available for co-designing, how can they be applied in practice?





### **Method example: Magic machines**

Workshop activities -1 to 2 hours -6 steps

1. Short introduction: setting the scene for the workshop.

- 2. Giving a prompt:
- A short activity related to the topic of the project
- A simple "on ramp" for participants
- Example: "Draw the sound you want to make on your hand";
  "Write down a personal fear you have for getting old";
  "Write down a desire you have, and somewhere on the body related to that desire."

3. Asking them to make a machine that addresses their response to the prompt, using available materials.

- 4. Presenting the machine usually role play, imagining its use
- 5. Discussion of each persons machine
- 6. Documentation photos of people with their machines



Andersen & Wakkary. 2019. The Magic Machine Workshops. Proc. ACM CHI 2019.





#### Method example: Magic machines



Andersen & Wakkary. 2019. The Magic Machine Workshops. Proc. ACM CHI 2019.







#### **Method example: Magic machines**

CHI 2019 Paper

CHI 2019, May 4-9, 2019, Glasgow, Scotland, UK

#### The Magic Machine Workshops

#### Making Personal Design Knowledge

Kristina Andersen Future Everyday, Industrial Design Eindhoven University of Technology h.k.g.andersen@tue.nl

ABSTRACT

New technologies emerge into an increasingly complex evervday life. How can we engage users further into material practices that explore ideas and notions of these new things? This paper proposes a set of qualities for short, intense, workshop-like experiences, created to generate strong individual commitments, and expose underlying personal desires as drivers for ideas. By making use of open-ended making to engage participants in the imagination of new things, we aim to allow a broad range of knowledge to materialise. focused on the making of work that is about technology. rather than of technology.

#### CCS CONCEPTS

 Human-centered computing → Participatory design; HCI theory, concepts and models; Interaction design theory, concepts and paradigms.

#### KEYWORDS

Design Research, Material Practise, Making, Magic.

#### ACM Reference Format

Kristina Andersen and Ron Wakkary. 2019. The Magic Machine Workshops: Making Personal Design Knowledge. In CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2019), May 4-9, 2019, Glasgow, Scotland UK. ACM, New York, NY, USA, 13 pages. https://doi.org/10.1145/3290605.3300342

#### **1** INTRODUCTION

The HCI and design community makes frequent use of workshops to gather input for design and research processes. As

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https://doi.org/10.1145/3290605.3300342

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**Ron Wakkary** 

Simon Fraser University

Figure 1: Early example of a magic machine: The Singing anslator from Transmediale 2009

technology becomes more complex and ubiquitous, we believe it becomes increasingly important to open up the design process of new technological things.

However, workshop formats tend to look to the outcomes and participants as resources for design and research projects. This is limiting in a number of ways: It overlooks the notential of personal and individual visions and takeaways for the participants themselves, it narrows the scope of what can be addressed within the workshop process - in turn limiting the potential of the outcomes, and finally it controls the extent to which participants can take control of and reframe the focus of the overall research inquiry beyond the context of the workshop itself.

This paper describes a workshop technique, which has evolved over time to leverage artistic tradition and workshopping experience for the benefit of supporting the generation of deeply personal material by participants. This inverts the norms of existing design workshops in that it is not aimed solely at providing data for research projects, or groups of imagined users, but rather targets the participant to develop radically personal visions of a potential novel technological thing. While these visions may serve to build personal and critical positions by the individual participants, the benefit for the facilitators lies in enabling a greater diversity in the creative outcomes, vision, and sharing within the group

Page 1

Paper 112

https://dl.acm.org/doi/10.1145/3290605.3300342

Problem-solving or not? The Boundaries of HCI Research

#chi4good, CHI 2016, San Jose, CA, USA

"The disconnect between problem and solution, always

likely to be an issue, became exaggerated in the culture and

practice of modernism in city design and planning, where

problems were "dumbed down" to meet the solutions

He points out that the history of civic design is littered with

failed solutions that presume problems rather than

investigate them. Although the "big ideas" of consultants

may be very seductive, it is likely that they will only solve

part of a problem and may not apply across different

contexts. For example, "festival markets" helped regenerate

Baltimore's inner harbor in the nineteen sixties and they

were adopted as a strategy to regenerate other areas across

the US. Despite working in Baltimore the markets failed in

Dobbins' solutionist critique echoes concerns with

technology-driven approaches long familiar in HCI but

focuses in particular on the question of representation. He

warns that the problem is "potentially disastrous" when

"The big idea may be so seductive, may get so imageable so

The rise of solutionism in "Silicon Valley" and academic

research has been supported by sophisticated future vision

representations e.g. short films showcasing Google Glass or

Songdo, South Korea's "ubiquitous city", for example

segregates work to a central business area in towers along a

very compelling images are used to present a concept:

fast that people are swept up in the process," (p.183)

#### Anti-Solutionist Strategies: Seriously Silly Design Fiction Kristina Andersen

STEIM

Achtergracht 19

1017WL Amsterdam.

offered." (p. 182)

most other places (ibid).

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**Rachel Clarke**, Peter Wright Open Lab, Newcastle University Rachel.Clarke@newcastle.ac.uk p.c.wright@newcastle.ac.uk

#### ABSTRACT

Much of the academic and commercial work that seeks to innovate around technology has been dismissed as "solutionist" because it solves problems that don't exist or ignores the complexity of personal, political and environmental issues. This paper traces the "solutionism" critique to its origins in city planning and highlights the original concern with imaging and representation in the design process. It is increasingly cheap and easy to create compelling and seductive images of concept designs, which sell solutions and presume problems. We consider a range of strategies, which explicitly reject the search for "solutions". These include design fiction and critical design but also less well-known techniques, which aim for unuseless, questionable and silly designs. We present two examples of "magic machine" workshops where participants are encouraged to reject realistic premises for possible technological interventions and create absurd propositions from lo-fi materials. We argue that such practices may help researchers resist the impulse towards solutionism and suggest that attention to representation during the ideation process is a key strategy for this.

#### Author Keywords

castigates the products of silicon valley and many academic research labs for providing solutions to problems that do not exist or prototyping reductive "silver bullet" solutions for complex social, political and environmental problems [31]. He takes the term "solutionism" from Michael Dobbins's 2009 book "Urban Design and People" [16]. As HCI begins to address the development of "smart cities" it is increasingly important to engage with solutionism as it relates to urban and city planning. Dobbins argues that "solution-driven design" generally reaches for answers before questions have been asked fully:

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Convright is held by the owner/author/s CHI'16 May 07-12 2016 San Jose CA USJ



#### https://dl.gcm.org/doi/10.1145/2858036.2858482





Design fiction, well being, older people.

ACM Classification Keywords H.5.m. Information interfaces and presentation

SOLUTIONISM AND REPRESENTATION

the Microsoft Home of the Future. But making things In To Save Everything Click Here Eugeny Morozov imageable is at the heart of what designers do, from sketching to prototyping. This paper argues that representation is crucial to how we imagine future technologies. It critiques current design representations as overly seductive and explores alternative strategies that reject the search for solutions. The work responds to visions of the smart city as they relate to older people. SOLUTIONIST CITIES Adam Greenfield traces twenty first century visions of "smart cities" to the High Modernism of the nineteenth century:

> "The smart city replicates in tone, tenor, form and substance most if not all of the blunders we associate with the discredited high modernist urban planning techniques of the twentieth century" [21]

ACM 978-1-4503-3362-7/16/05. http://dx.doi.org/10.1145/2858036.2858482

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### Materials to support Making, Enacting and Telling



Photos tend to elicit emotions and memories, suggest complete situations and stories, and carry many different layers of meanings and associations.



Systematic sets can be used to suggest and express values across an entire dimension, such as a systematic collection of emotianal expressions, or a set of body postures.



expressing abstractions such as symbolic meaning or emotional content. Words are also good starting triggers for people who are more accustomed to using words vs. thinking with pictures.

Words are powerful at



Puppets can be used to provoke storytelling and to set the stage for exercises in empathy.



Velcro-covered 3D shapes can be quickly assembled into rough product 'prototypes' and smaller add-on functionality.



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ttto

0 .....

Symbolic shapes support making abstractions and formulating general relations, patterns, and rules.

Cartoonlike expressions often leave room for a variety of interpretations. They can also add an element of fun.



Raw collections of scrap materials can be used for constructing objects or for embellishing rough prototypes.



Legos and other construction kits are also useful for prototyping concepts.



words (or phrases) are used for eliciting memories from the past. The backdrop might be blank, allowing the participant to define its structure. Or the backdrop may be predefined to elicit specific content. For example, good memories inside the circle, and bad memories outside the circle.

Emotional toolkit: Photos and

**Dolls' house toolkit:** For focused applications, especially later in a session when attention is drawn to creating concrete solutions, toolkits can be more representational instead of obstract. They can also be scale models, or 1:1 models.



Storyline toolkit: This toolkit optimized for the expression of a story. A timeline running from left to right defines the flow of time. Visual and verbal elements might be included to facilitate thinking and expression.



simple and symbolic shapes combined with words can be used to express relationships between ideas or components. For example, how does teamwork work?

Cognitive toolkit: A range of



Group cognitive toolkit: When a toolkit is created for group use, its elements must be bigger, so that it can be handled by multiple people at the same time, and be read from a distance.

Sanders & Stappers. 2012. Convivial toolbox: Generative research for the front end of design.







How can we ensure that the participating users can represent the needs of the majority of users in the co-design process?

> I often see the concept of "democratic design" in IKEA products. Can IKEA products be seen as codesign? Why?

<u>https://ikeamuseum.com/en/whats-on/exhibitions/the-story-of-ikea/democratic-design/</u> <u>https://www.youtube.com/watch?v=apVUIZXeS84</u>





Co-creation seems to lead to more innovative and personalised solutions. Does this mean that every design project needs a unique approach to cocreation? Is there a place for standardisation and scale in co-creation?





Co-creation seems to lead to more innovative and personalised solutions. Does this mean that every design project needs a unique approach to cocreation? Is there a place for <u>standardisation</u> and scale in co-creation?





Co-creation seems to lead to more innovative and personalised solutions. Does this mean that every design project needs a unique approach to cocreation? Is there a place for standardisation and <u>scale</u> in co-creation?







Simon Bowen, Peter Wright, Alexander Wilson, Andy Dow, Tom Bartindale, and Robert Anderson. 2020. Metro Futures: Experience-Centred Co-Design at Scale. In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20). Association for Computing Machinery, New York, NY, USA, 1–13. <u>https://doi.org/10.1145/3313831.3376885</u>



Total



23137

#### **Co-design at scale: Helsinki Public Library**



Virve Miettinen. 2018. Redefining the Library: Co-Designing for Our Future Selves and Cities, Public Library Quarterly, 37:1, 8-20, DOI: 10.1080/01616846.2017.1379348

Svenska PUBLIC LIBRARY QUARTERLY 2018, VOL. 37, NO. 1, 8–20 https://doi.org/10.1080/01616846.2017.1379348



Check for updates

#### Redefining the Library: Co-Designing for Our Future Selves and Cities

Virve Miettinen

Culture & Leisure, Helsinki City Library, Helsinki, Finland

#### ABSTRACT

Co-design approach gives us new possibilities to redefine libraries. Involvement of the community and users is an important avenue in creating an up-to-date library services that will be adaptable and flexible enough to meet the future. A welldesigned and user-friendly library can reflect a community's character back to itself, crystallizing who it is, in all its multiplicity, and what it stands for. Working together with the citizens around common goals is an important step in creating safer, healthier, happier and more inclusive communities and cities.

Helsinki City Library has utilized customer-oriented methods for a long time already. However, in recent years, there has been a shift in thinking. Customer orientation used to mean examining citizens in panels and as targets of design, but nowadays library users themselves participate in planning and decision-making. The aim is to carry out true involvement processes, i.e., processes that have a direct impact on the services and organization. Codesign in library context means a process of collaborative knowledge sharing and solution creation, driven by a belief that everybody is creative and can contribute to planning when provided with knowledge and tools.

#### KEYWORDS

Co-design; community engagement; Helsinki City library; customer focus; building design; Helsinki City library





#### Final question for you all...

## What are the limitations of co-design, co-creation, participatory design etc.?

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## The final prep-work...

## Tasks for the next 5 days:

In the Class Notebook, please add:

- 3 comments on this lecture
- (at least) 2 questions about coursework or content covered throughout the semester
- 1 thing you have taken away from CDI1

Next week will be a Question and Answer session with Susan – this is an opportunity for you to ask questions that cover:

- Any of the content from the 10 weeks of different topics, or:
- Any of the assignments

And finally! Please consider completing this short feedback survey about the course just now – it should only take about 5 minutes: https://forms.office.com/e/08xNR8C1En

## Many thanks!

