Design Research in the light of * Techno-/Cyberfeminism * Critical Computing * New Materialism(s)

CF+ Workshop, University Kassel

Dr. Sandra Buchmüller, Technische Universität Braunschweig, Institut für Flugführung Wissenschaftliche Mitarbeit an der Professur "Gender, Technik, Mobilität"

Overview

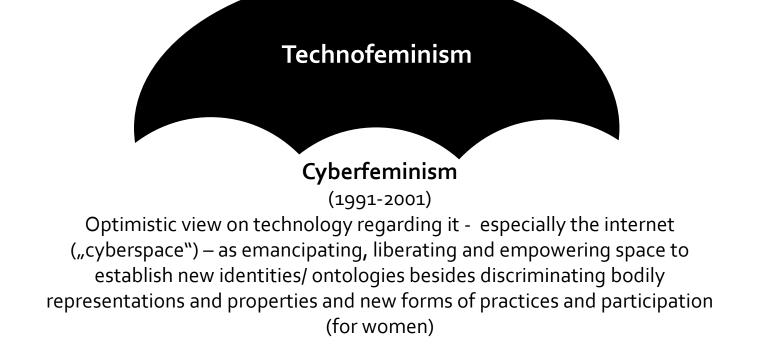
- What I've learned/refreshed from CF+ Workshops: Techno-/ Cyberfeminism, Critical Computing, New Materialism and their relations to each other
- A Personal Survey: My Design Research in the Light of the three Perspectives/ Paradigms (?)
 - Feminist Theories turns Design into a scientific discipline
 - How can feminist epistemologies inform the design research and development process: My feminist Design Research and Development Framework (FEDELOP)
- Points of Criticism and for Discussion
- Outlook: "Research through Design" as a Model for Technofeminist Future Perspectives for power critical and gender aware Design Research and Practice

What I've learned or refreshed from CF+ Workshops

What I've learned so far or refreshed from CF+ Workshops Technofeminism as an umbrella term (Caroline Sollfrank)

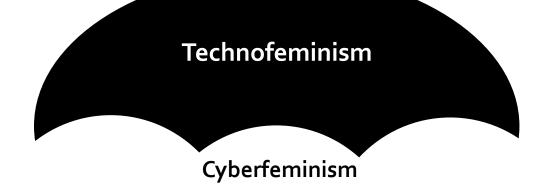


What I've learned so far or refreshed from CF+ Workshops ...embraching Cyberfeminism



What I've learned so far or refreshed from CF+ Workshops

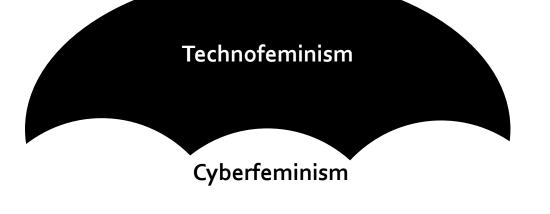
...embraching New Materialism



New Materialism(s)

The current feminist epistemology that values matter over symbolic representation and regards knowledge as a result from an entangled process of knowing and being that constitute each other. It looks at the mechanisms how boundaries or differences are constructed; as a feminist ethico-ontoepistemology it also contains an ethic that strives for the responsible production of any matter as a process of intra-action of human and nonhuman actors based on the attitude of care for the made cuts and materializations and its socio-material consequences.

What I've learned so far or refreshed from CF+ Workshops ...needing Critical Computing

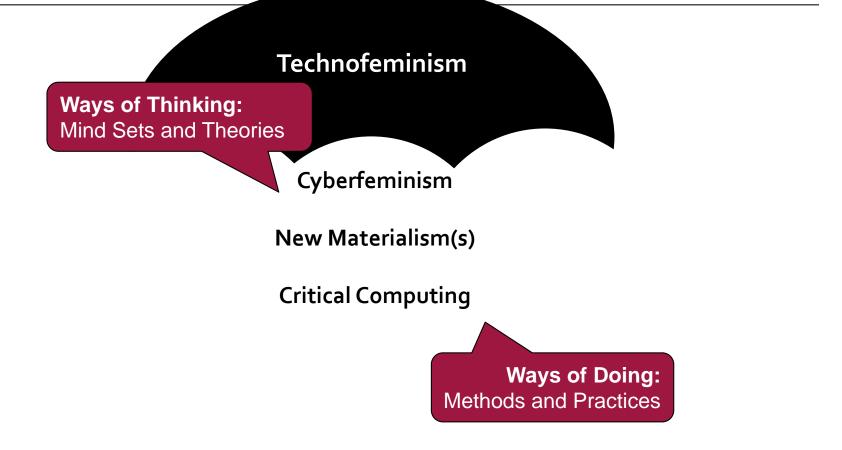


New Materialism(s)

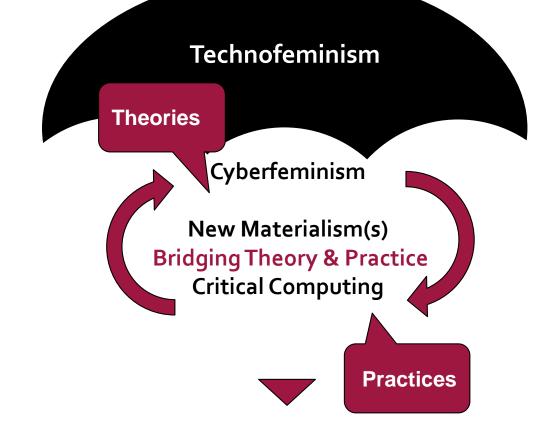
Critical Computing

implies that technology – including the practices and fabrics of informatics (e.g. algorithms) – has politics and can be done critically; it provides methods and tools that can be used to counteract oppressions, discriminations, inequalities, e.g. by shifting boundaries, modifying power structures including categories / ontologies like nature/ culture, mind/ body, human/ machine, rationality/ emotionality, subjectivity/ objectivity....

What I've learned so far or refreshed from CF+ Workshops Ways of Thinking & Doing

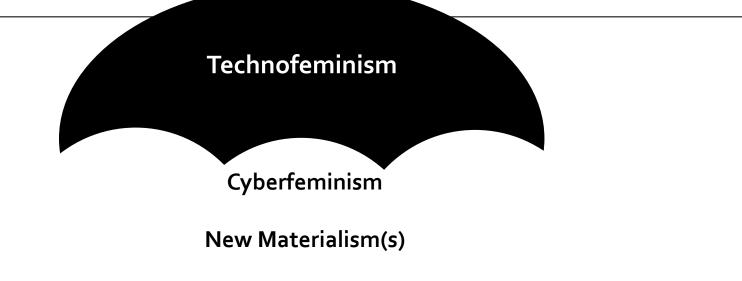


What I've learned so far or refreshed from CF+ Workshops Ways of Thinking & Doing



Technofeminist-reflective Techno-Practice that produces matter based on an attitude of care for liveable, sustainable human and non-human worlds

Focus of my Talk My Design Research

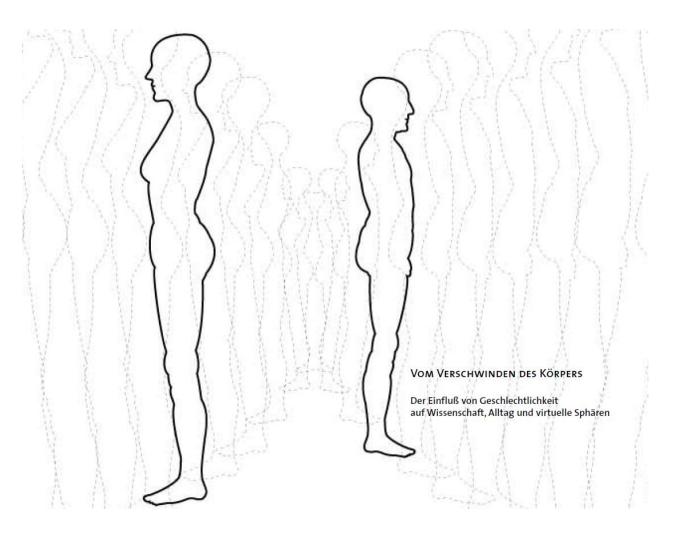


Critical Computing

I take the invitation to this CF+ Workshop an opportunity to make a kind of a **personal survey to reflect my work and projects at the intersection of gender and design** from the early days of my design education up to now with reference to the mentioned concepts.

My Design Research

2001 Diploma@Köln International School of Design The Disappearance of the Body(?)



The influence of gender on science, everyday life and virtual spaces

2001 Diploma@Köln International School of Design

Virtual body Representations, inspired by Cyperfeminist Visions

Analysis of the **Online-Role-Playing Game LambdaMOO** with a text-based interface

Telnet lambda.moo.mud.org	_ <u> </u>
ow to Speak	-
re	0
o experiment with speaking, enter the following: say Hello there. I am new here.	
ith any luck, what you see on your screen should look like this: You say, "Hello there. I am new here." [Everyone else sees, Magenta_Guest says. "Hello there. I am new here."	'J
he "everyone else" referred to is any other characters in the room you're currently in. The tutorial is showing you what those people would have se had they been there to listen.	en
ou can abbrieviate the say command to a single double-quote ("). "Hello there. I am new here.	
his will provide the exact same result as the slightly longer command did before. You do not need to append another double-quote to your command si they are automatically provided.	nce
"next" for next topic, "back" for previous, "again" to repeat current topi hello. I#m a newbe! ou say, "hello. I#m a newbe!" Everyone else sees: Magenta_Guest says, "hello. I#m a newbe!"] ext on-verbal Communication	с]
you're familiar with the say command, you're capable of talking wi people to your heart's content. But what if you want to express yourself some other way besides speaking? If you're feeling happy, it would seem a bit stilted to say "I am happy", when there are numerous ways you would express this in real life, such as smiling or laughing. You can communica non-werbally by using the emote command.	th in te
Emote" allows you to make statements about what you are doing. These acti have no effect upon the MOO, other than to express to people what you're feeling or thinking. To try this, use the command: emote smiles happily.	ons.
ou should see: Magenta_Guest smiles happily.	
his can, like say, be abbrieviated, this time to a colon <:>. As mentione above, an emote has no actually effect, so if you typed: :throws Haakon out of the house.	d
eople would see Magenta_Guest throws Haakon out of the house. ut Haakon *wouldn't× go anywhere. Nothing has actually happened, except maybe you have made someone angry.	
hen someone enters a room or announces that they are going to leave, it is common to use emote to wave at them, to welcome them or say goodbye respectively.	
moting can be used to represent events that have not occured, but this is generally not encouraged. A simple way of looking at it is you can emote anything about yourself, but if you involve others they may get annoyed.	-

2001 Diploma@Köln International School of Design

Virtual body Representations, inspired by Cyperfeminist Visions

Analysis of the **Online-Role-Playing Game LambdaMOO** with a text-based interface

Available genders: neuter, male, female, either, Spivak, splat, plural, egotistical, royal, or 2nd

Offer of 10 gender categories Default gender category: ,neuter' Category of 'genderlessness': Spivak

"To adopt the **Spivak** gender means to abjure the gendering of the body , to refuse to be cast as male, female or transsexual."

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LambdaMOO was founded by Pavel Curtis at Xerox Parc in 1990; at that time, online role-playing games became very popular by social scientific scholars who examined issues like the cultural construction of bodies and identities; the "Spivak" Category might be inspired by the female philosopher **Gayatri Chakravorty Spivak** who is a co-founder of the postcolonial theory that also evolved and spread in the 1990s.

2007 Telekom Innovation Lab Virtual body Representations of Second Life

Analysis of **the graphical interface and interaction design** of the most popular Online-Role-Playing Game at that time and compared it to LambdaMOO



2007 Telekom Innovation Lab

Virtual bodily Representations of Second Life

Analysis of **the graphical interface and interaction design** of the most popular Online-Role-Playing Game at that time and compared it to LambdaMOO



Default Set of avatars with two gender categories



Appearance editor with two gender categories

2007 Telekom Innovation Lab

Virtual bodily Representations of Second Life

Analysis of the graphical interface and interaction design of the most popular Online-Role-Playing

Game at that time and compared



The Appearance Editor can be used in order to produce queer-inter-transsexual bodily representations. Body Parts y Inventory/Clothing/City Chic Female Form 65 Kopf 56 Oberkörper O Weiblich Männlich 66 Speichern Speichern u Zurückführe Outfit erstelle) Alle speiche Schließen

Appearance editor with two gender categories

2007 Telekom Innovation Lab

Cyberfeminist Evaluation of Second Life and LambdaMOO

The attempt to create inbetween-, trans- or mixed gendered avatars was a play against the binary and heterosexual gender norm inscripted in the interface and interaction design of Second Life

Conclusions about the semiotic code in reference to gender performativity/ Cyberfeminist visions

- text based interfaces are much more suitable to deconstruct binary gender representations in favour for postmodern, fluid, plural and dynamic identities, because they allow to design identities progressively during communication
- graphical user interfaces have a much more iconic quality that fixe your gendered identity based on details of outer appearances

Second Life's can be regarded as a betrayal of cyberfeminist visions because it its gender scripts do not really allow for new forms of identities, gendered and bodily experiences

2007 Thinking about Design Research from a feminist view in theoretical and methodological terms

My Resarch Questions:

- How can Feminism contribute to Design?
- How can concepts and approaches from gender studies, feminist science and technology studies guide design processes?
- Which existing design approaches correspond to feminist requirements and therefore can be tailored to or specified for a feminist design research and practice?
- What makes a Designer a power critical and gender ware Reflective Practioner (Donald Schön 1984)?
- What makes the result a feminist artefact?

Design Research – an Oxymoron/ an inherent contradiction? Klaus Krippendorff* (2007)

- Criticism about the imprudent transfer of concepts and paradigms from other disciplines into design that produce incommensurabilities.
- While natural sciences aim at explaining and describing the way the world is (status quo), design strives for something that could or should be (projection)
- So, when traditional, objectivist concepts of science and research are transferred to design, the answer to the question above is:



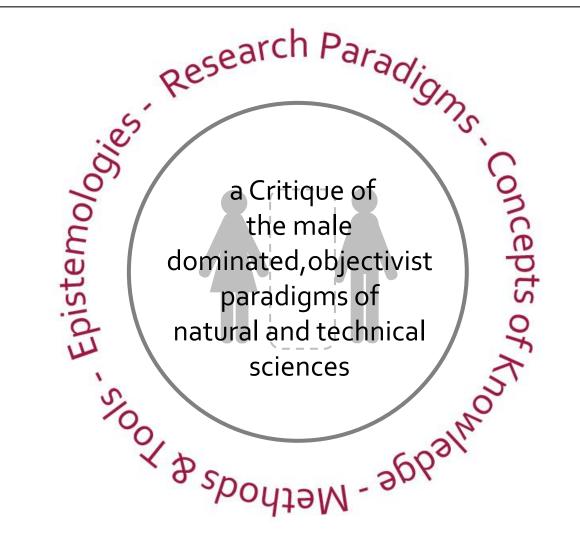
*Professor for Cybernetics, Language, Culture at the University of Pennsylvania

Design Research – an Oxymoron/ an inherent contradiction? Referring to feminist Concepts of Science and Research....

... the answer is:



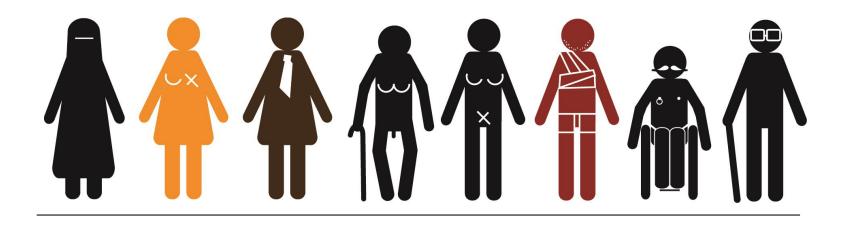
Feminist Concepts of Science and Research result from...



Feminist Concepts of Science and Technology

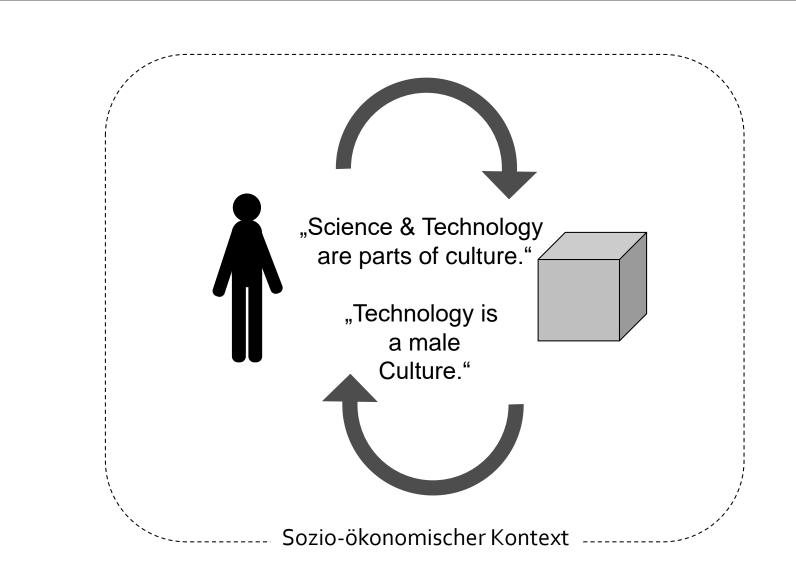
consider that facts and artefacts are made by humans

They are related to human experiences that are embodied and gendered.



Feminist Science and Technology Studies (STS)

Co-Construction of Society, Science, Technology and Gender



Facts and Artefacts

-are neither objective nor neutral.
-are made by humans and relate to a certain time and context.
- ...mirror the conditions, power structures and gender order of the respective context.
- ...are just ,Situated Knowledges' (Donna Haraway) that base on parameters like contextuality, perspectivity, partiality, situatedness

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- ...that corresponds to the **Parameters of Design Research and Practice**:

Designers create their (arte-)facts with regard to a certain target group (perspective, partial) assuming certain properties, skills and purposes of use (embodied, gendered, situated, contextual).

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parameters like

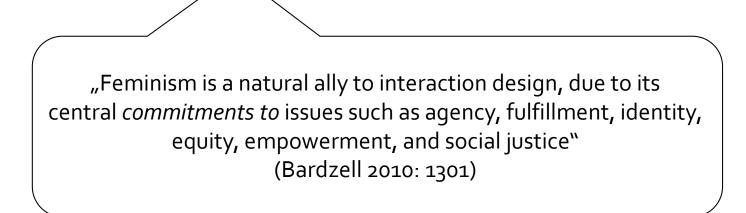
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Referring to feminist epistemologies, justify design research and practice as a scientific discipline that was a controversial issue within the discipline itself for a long time.

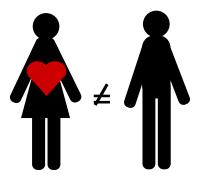
Following Sharon Bardzell, a feminist HCI Researcher...



How can feminist Epistemologies inform Design Research & Practice?

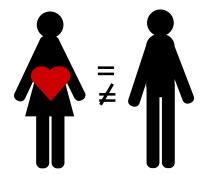
Feminist Epistemologies, their Gender Concepts & Focus and Consequences for the Design of Technologies

Eco-Feminism



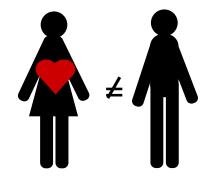
Rejection of technology based on male values that are destructive, exploiting >Design on female values provide better technology

Liberal Feminism



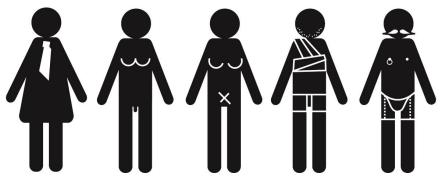
Women needs technological training to overcome deficits resulting from their socialization/ education, the way their are treated and grow up > Technical Training for women

Feminist Standpoint Theory



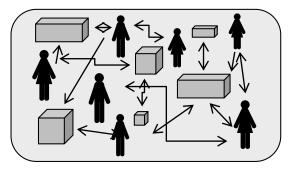
Technology is a result of patriarchal und capitalist conditions that ignore women's experiences and disadvantage their use of technology > Design for marginalized users, e.g. women

Poststrukturalist Feminism / Cyberfeminism



Co-Construction of Gender und Technology > New ways of doing design and using technology as possibilities to establish new gendertechnology-identities and relations

Agential Realism/ Technofeminism



Socio-material intraactions within networks of distributed agency between human and non-human actors > Establish socially fair and ecologically sustainable human-machine-configurations 32

Feminist Epistemologies, their Gender Concepts & Focus and Consequences for the Design of Technologies



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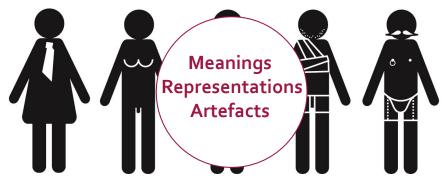


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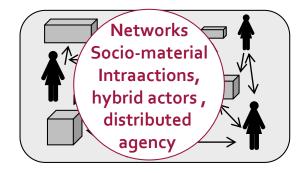
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Relevant Feminist Epistemologies for Design Research & Practice because they correspond to...



Eco-Feminism

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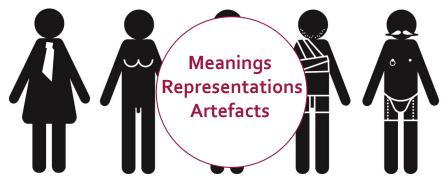


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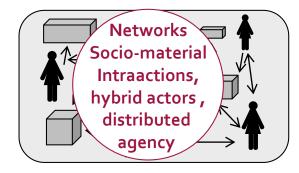
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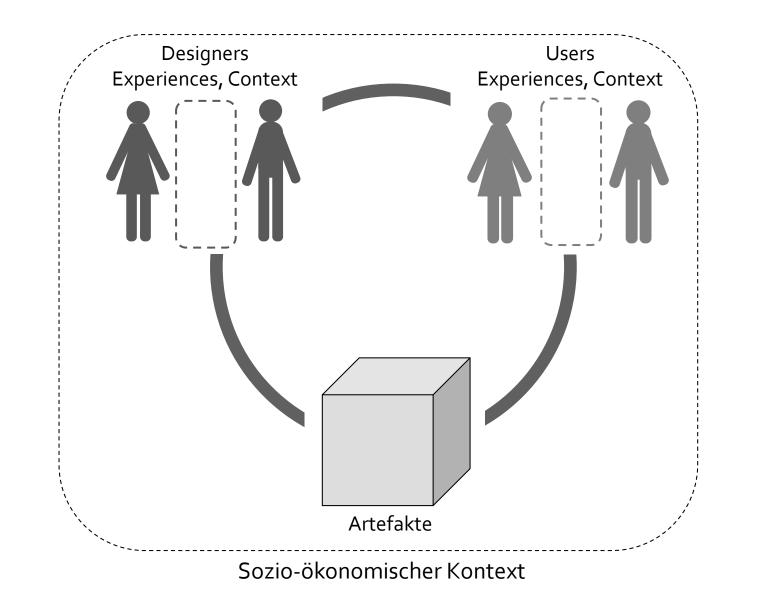
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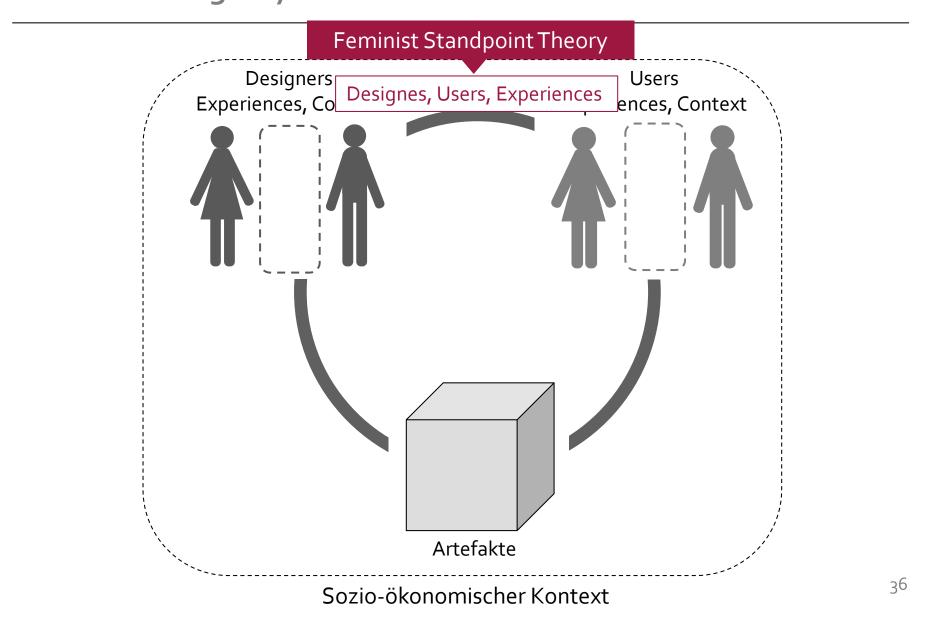


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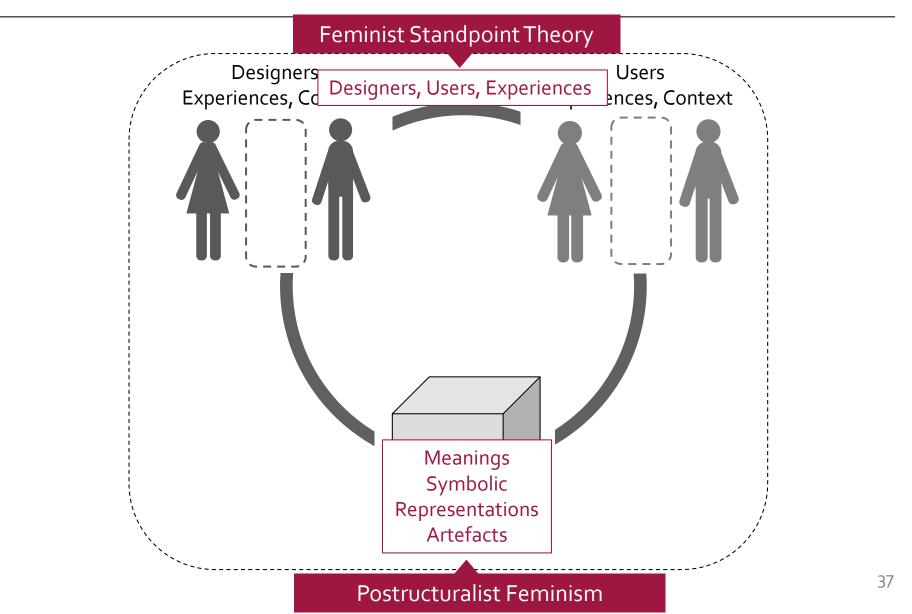
...the Dimensions /Actors of human-centred Design



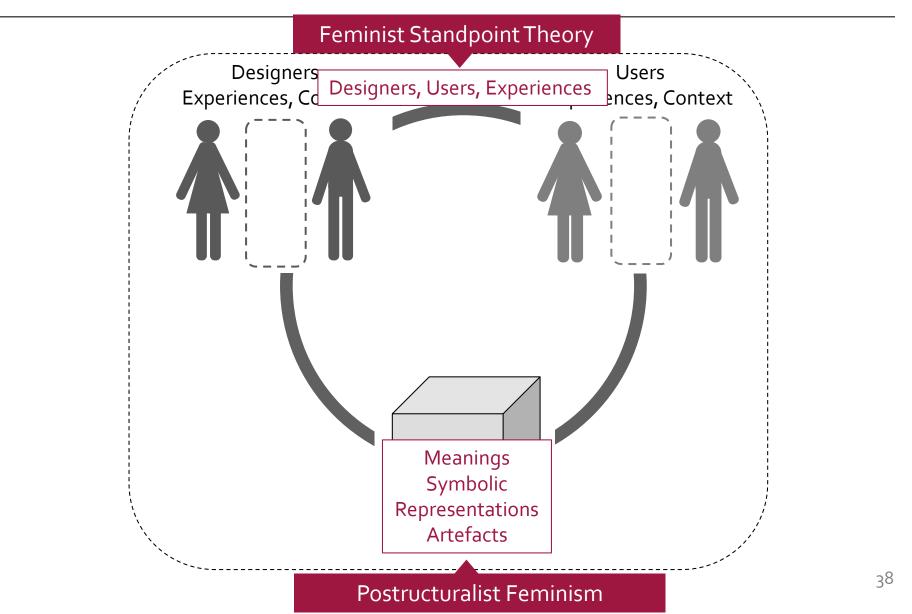
...the Dimensions /Actors of human-centred Design in the following way....



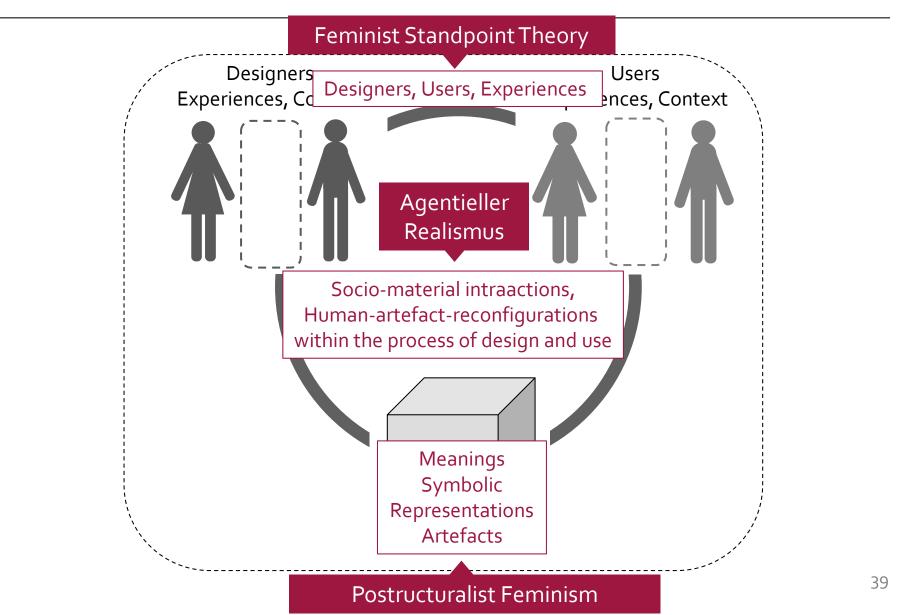
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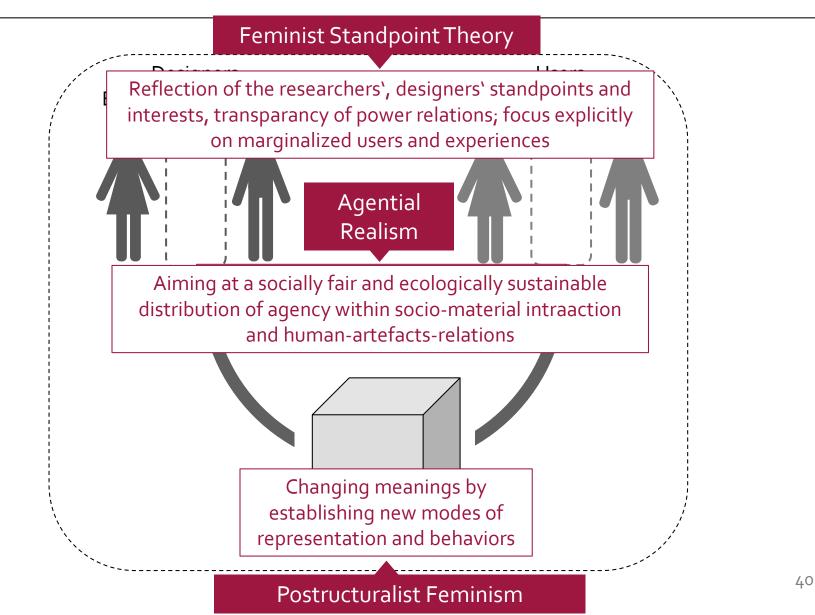
in the following way....



in the following way....



in the following way: Tasks and Aims



My Design Research and Development Framework (FEDELOP)

Feminist Checklist: Recommendations to reflect design decisions, anticipate and evaluate effects

FEMINIST STANDPOINT THEORY	POSTSTRUCTURALIST FEMINISM	AGENTIAL REALISM
Designer-User Relation Designer User	Meanings, Representations, Artefacts (digital, material)	Intra-actions Human-Artefact Configurations (socio-material/ socio-technical)
 Focus on Designers Reflect your own standpoint and (stereotypical) assumptions Make the power structures, the interests and goals of each stakeholder visible Focus in Users: Identify and empower marginalized users in the respective context Side with their voice Regard them as experts of their daily lives Establish an emancipated relationship with them Integrate them in the whole development process Increase their societal visibility, acceptance and participation and freedom of action 	 Support heterogeneity & diversity Break with ontological believes, societal conventions and norms Invent nonconformist, ambiguous, controversial representations and meanings Offer new experiences, perspectives, courses of action Support critical reflection Avoid stereotypes, discrimination, stigmatization 	 Evaluate your design interventions and decisions according to the previously defined goals: Who is in charge of agency within the intraactions during research, design and the context of use? Who is included, who is excluded? Who is in charge of agency within the human-artefact-configuration? How is gender configured at the intraface of the human-artefact-relation? Does the respective distribution of agency and gender correspond to feminist goals?
Focus on Gender: • Equalize all genders! • Degender or undo gender!	Focus on Gender: • Pluralize, modify, confuse gender!	Evaluate Gender Configurations:Is gender equalized, modified, pluralized, undone?

*social justice, gender equality, social participation, inclusion, critical reflection, empowerment and freedom of action

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Designer Designer	-User Relation User	Meanings, Representations, Artefacts (digital, material)	Intra-actions Human-Artefact Configurations (socio-material/ socio-technical)
 Increase your self-reflection 	 Empower marginalized users! Increase the users' self-reflection 	• Empower artefacts in order to change the users' perspectives and behaviour for the better!	• Evaluate the approach due to the distribution of agency & gender within the Intraactions during research, ideation and use?
 Critical technical Practice 	 Underdetermined De Participtatory Design Non-Intentional Des 	1	
 Value Sensitive I De-Genderi 	-		
	• De	ritical Design esign noir Jdic Design	
• Ref	lective Design • Feminist Int	eraction Design Methodology	Undesigning Design

FEMINIST STANDPOINT THEORY	POSTSTRUCTURALIST FEMINISM	AGENTIAL REALISM
Designer-User Relation Designer User	Meanings, Representations, Artefacts (digital, material)	Intra-actions Human-Artefact Configurations (socio-material/ socio-technical)
 enhance the designers' self- reflection of their research and design conditions (a part of the apparatus of observation and bodily/ material production) 		• Evaluate the approach due to the distribution of agency & gender within the Intraactions during research, ideation and use?
technica Practice • Participtatory Design • Non-Intentional Des		
 Value Sensitive Design De-Gendering Design 		
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Designer	User	recommends to	rial)	Human-Artefact Configurations (socio-material/ socio-technical)
 Increase your self-reflection 	Linpower	provide designs that complete within the process of use	er to change Id behaviour for	• Evaluate the approach due to the distribution of agency & gender within the Intraactions during research, ideation and use?
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cont	owledges use as a tinuation/ further ration of design • La	tical Design sign noir udic Design	
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Reflective Design Feminist Int	teraction Design Methodology	Undesigning Design
Increases the self- awareness of		
designers and users		4

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technical • Partie	erdetermined Desigr ciptatory Design Intentional Design	ו	
Value Sensitive Design De-Gendering Design 			
	 Desigr 	l Design n noir Design	
Reflective Des	sign • Feminist Inte	questions rationality and efficiency while considering musement, playfulness and fun	Undesigning Design

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 Value Sensitive I De-Genderi 	5		with regard to their consequences, social
	• D	ritical Design esign noir udic Design	inclusions, exclusions
• Ref	flective Design • Feminist Int	eraction Design Methodology	Undesigning Design

Overall Benefit and Effect of my Design Methodology

FEMINIST STANDPOINT THEORY	POSTSTRUCTURALIST FEMINISM	AGENTIAL REALISM
Designer-User Relation Designer User	Meanings, Representations, Artefacts (digital, material)	Intra-actions Human-Artefact Configurations (socio-material/ socio-technical)
 Increase your self-reflection Empower marginalized users! Increase the users' self-reflection 	Empower artefacts in order to change the users' perspectives and behaviour for the better!	• Evaluate the approach due to the distribution of agency & gender within the Intraactions during research, ideation arouse?
between designers D	ritic esign dic conventional ways of representations, advocating for irritation, ambiguity, provocation, deviations in order to break with perms	Observing the real effects and consequences of design decisions in real intraactions and evaluating them according to feminist goals during the phase of design anticipating use that is regarded as another phase of design

My Designmethodology is related to Techno-/Cyberfeminism, New Materialism and Critical Computung in the following way

	NDPOINT THEORY	POSTSTRUCTURALIST FEMINISM	AGENTIAL REALISM
0	-User Relation User	Meanings, Representations, Artefacts	Intra-actions Human-Artefact Configurations
Designer	User	(digital, material)	(socio-material/ socio-technical)
 Increase your self-reflection 	Empower marginalized	Empower artefacts in order to change the users' perspectives and	aluate the approach due to the
	users!Increase the users' self-reflection		nterialism is one essential nological reference point
 Critical technical Practice 	 Underdetermined De Participtatory Design Non-Intentional Des 	1	
 Value Sensitive I De-Genderi 	5		
	• D	ritical Design esign noir Jdic Design	
• Ref	lective Design	eraction Design Methodology	Undesigning Design

provide the methodical basis

Feminist Checklist is related to Techno-/Cyberfeminism, New Materialism and Critical Computung in the following way

FEMINIST STA	NDPOINT THEORY	POSTSTRUCTURALIST FEMINISM	AGENTIAL REALISM
Designer Designer	-User Relation User	Meanings, Representations, Artefacts (digital, material)	Intra-actions Human-Artefact Configurations (socio-material/ socio-technical)
 Increase your self-reflection 	 Empower marginalized users! Increase the users' self-reflection 		valuate the approach due to the aterialism is one essential nological reference point
 Critical Underdetermined Design Participtatory Design Non-Intentional Design 			
 Value Sensitive Design De-Gendering Design Critical D Design ne Ludic Des Reflective Design Feminist Interaction 			
Approach	nes of critical com	puting	

Provide the methodical basis

 * social justice, gender equality, social participation, inclusion, critical reflection, empowerment and freedom of action 54

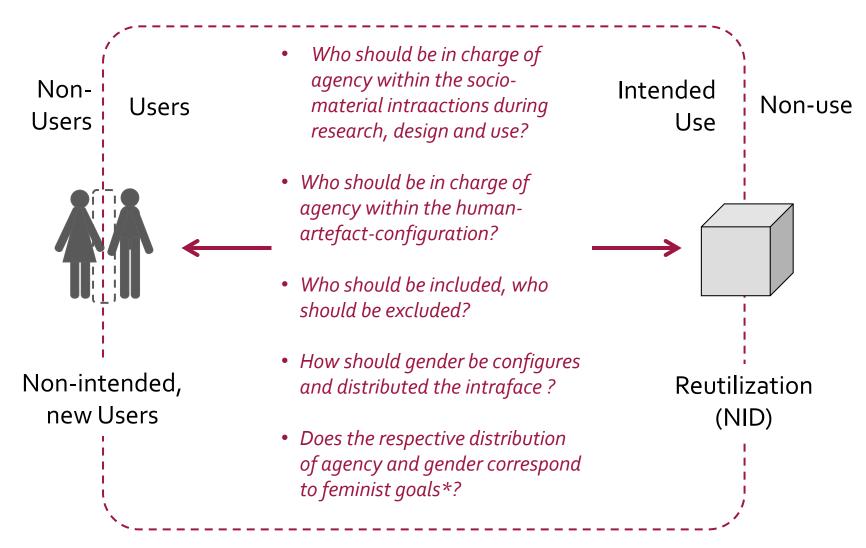
Results of my PhD Thesis

My feminist Design Research & Development Framework (FEDELOP)

- 3 dimensional Modell of Design Research & Practice
- Feminist Checklist: Recommendations for a power critical and gender aware reflection, evaluation and methodical organization of research and design processes
- Agential-feminist Concept of Design as socio-material Intraaction Design
 - Design as practice of gendered materializations
 - Design as boundary making activity that decides about inclusions and exclusions
 - Designers as powerful and responsible actors/ participants within the production of facts and artefacts

Using FEDELOP supports answers to the question:

How should agency be distributed with socio-material intraactions?



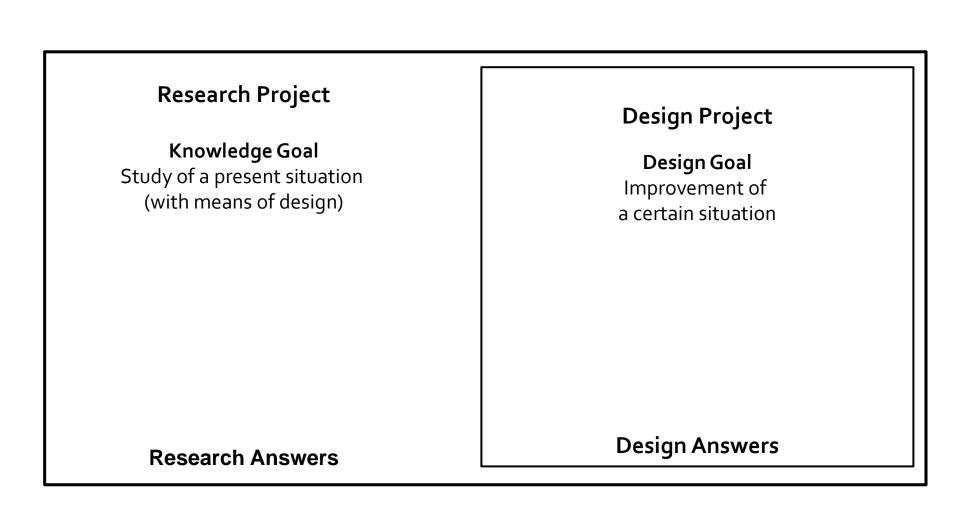
Points of Criticisms and Discussions

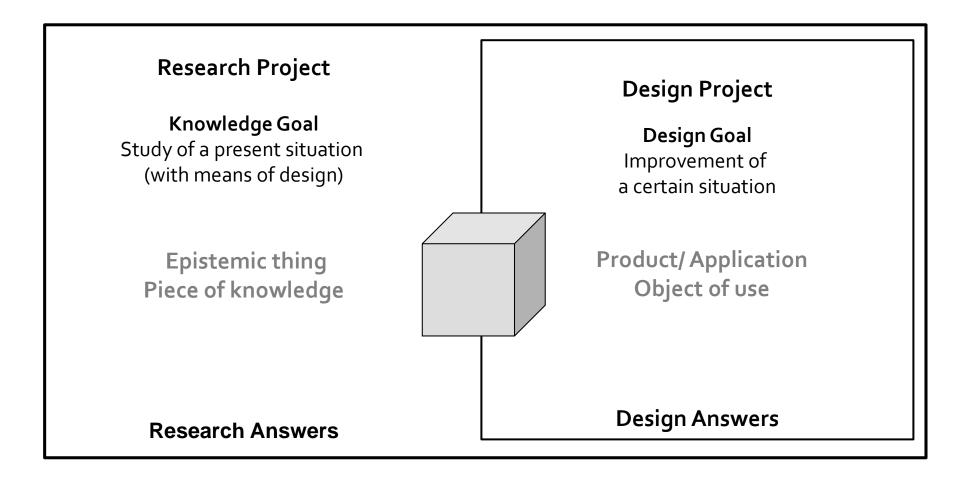
Points of Criticism

- It tries to establish Design Research & Practice as a boundary-making and -shifting activity, naming it Intraaction Design in reference to Barads terminology, but refers to entities like designers, users, artefacts. What do you think about that? How to handle that?
- What is the benefit of thinking about **technology design as intraaction design**? Just an (empty) play with words and terms?
- Generally speaking: What does new materialism contribute to a power critical and gender aware technofeminist research & practice? What does it really modify and change?
- Thinking about power relations and power distribution I often ask myself as a feminist design researcher: How much am I allowed to express my own point view and to implement my own desires/ imaginations of a perfect world into the design process and finally into the designed result?

Outlook

What about "Research through Design" as a Model of Technofeminist Research & Practice?

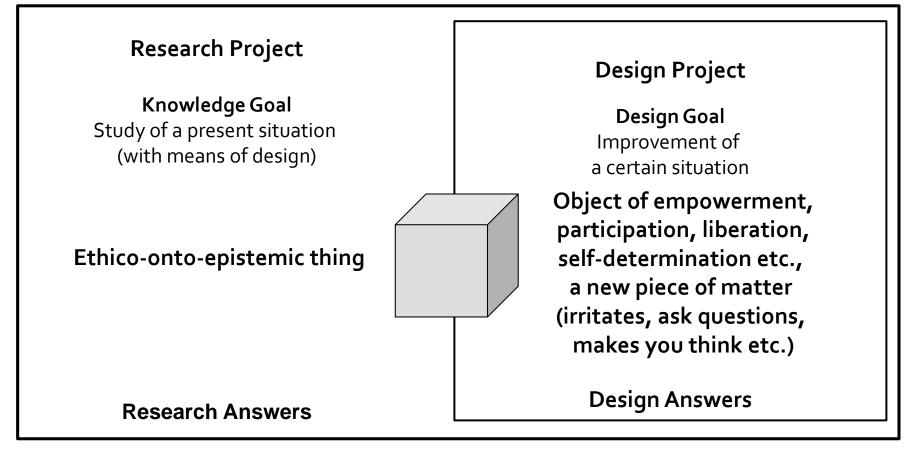




"Research through Design"

as a Model for Technofeminist Research & Practice

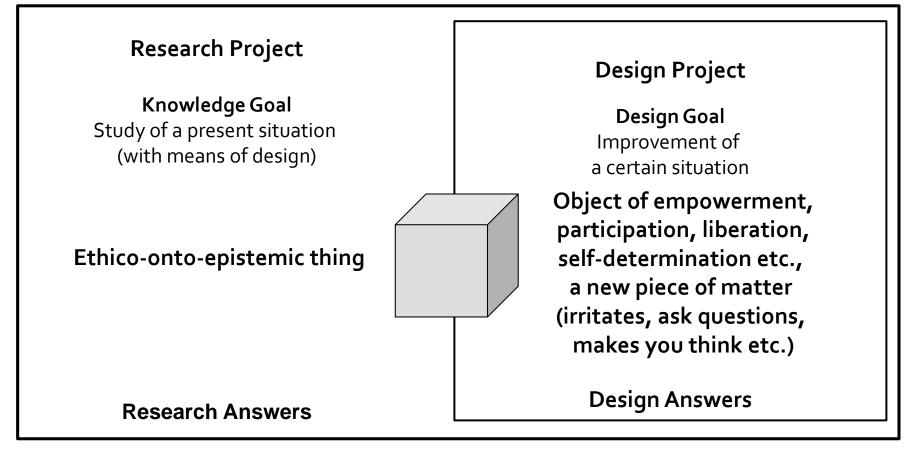
May offer possibilities to bridge or even transcends gaps between theory & practice, reflecting and acting, academia & everyday life? An change the artefact into an...



"Research through Design"

as a Model for Technofeminist Research & Practice

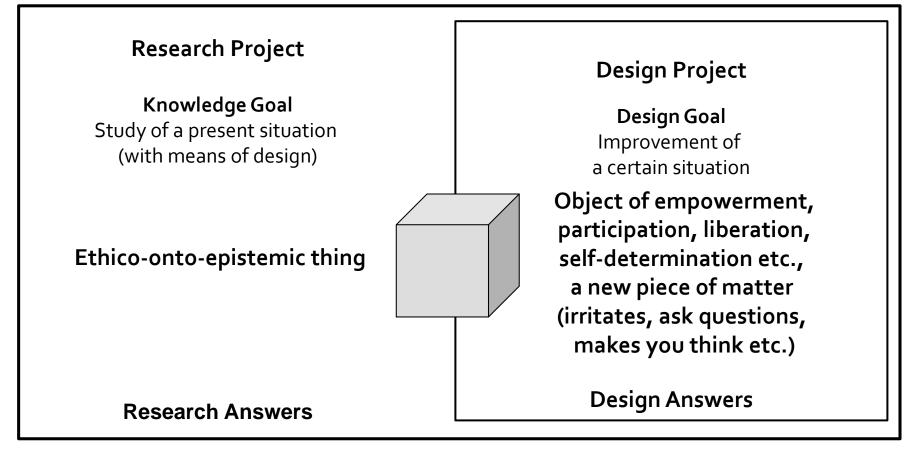
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"Research through Design"

as a Model for Technofeminist Research & Practice

May offer possibilities to bridge or even transcends gaps between theory & practice, reflecting and acting, academia & everyday life? An change the artefact into an...



When we regard the artefact as an epistemic thing (another form of materialized knowledge), it questions the differentiation between basic and applied research, doesn't it?

Thank you for your attention