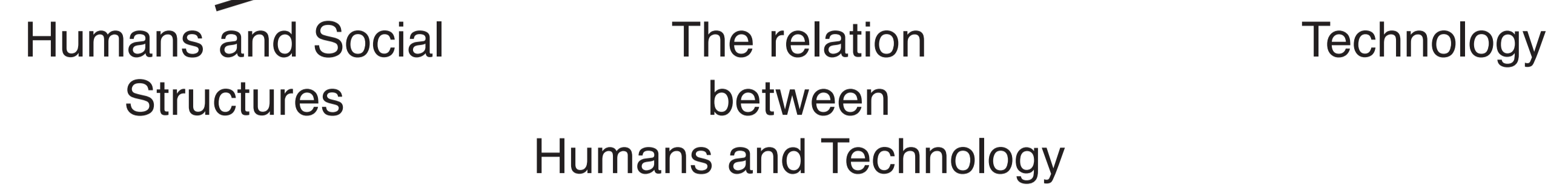


# ENABLING NEW FORMS of AGENCY using AGENCY SENSITIVE DESIGN and WEARABLE ENVIRONMENTS

**AGENCY**  
transformative capacity or capacity for action

**AGENCY IS AN ATTRIBUTE OF**



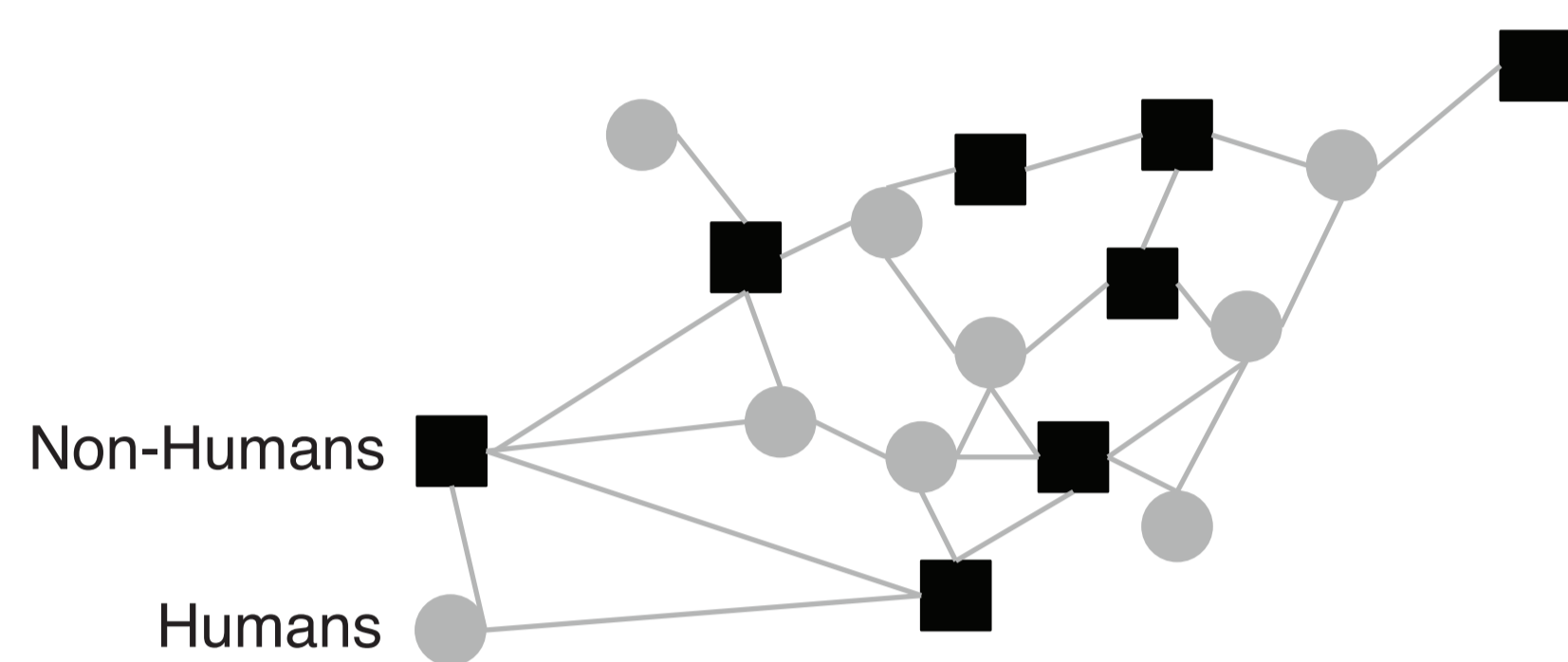
HOW CAN WE DESIGN FOR (RELATIONAL) AGENCY?

**RESEARCH QUESTIONS**

HOW CAN WE ENABLE NEW FORMS OF AGENCY?

**AGENCY SENSITIVE DESIGN (ASD)**

**WEARABLE ENVIRONMENTS**

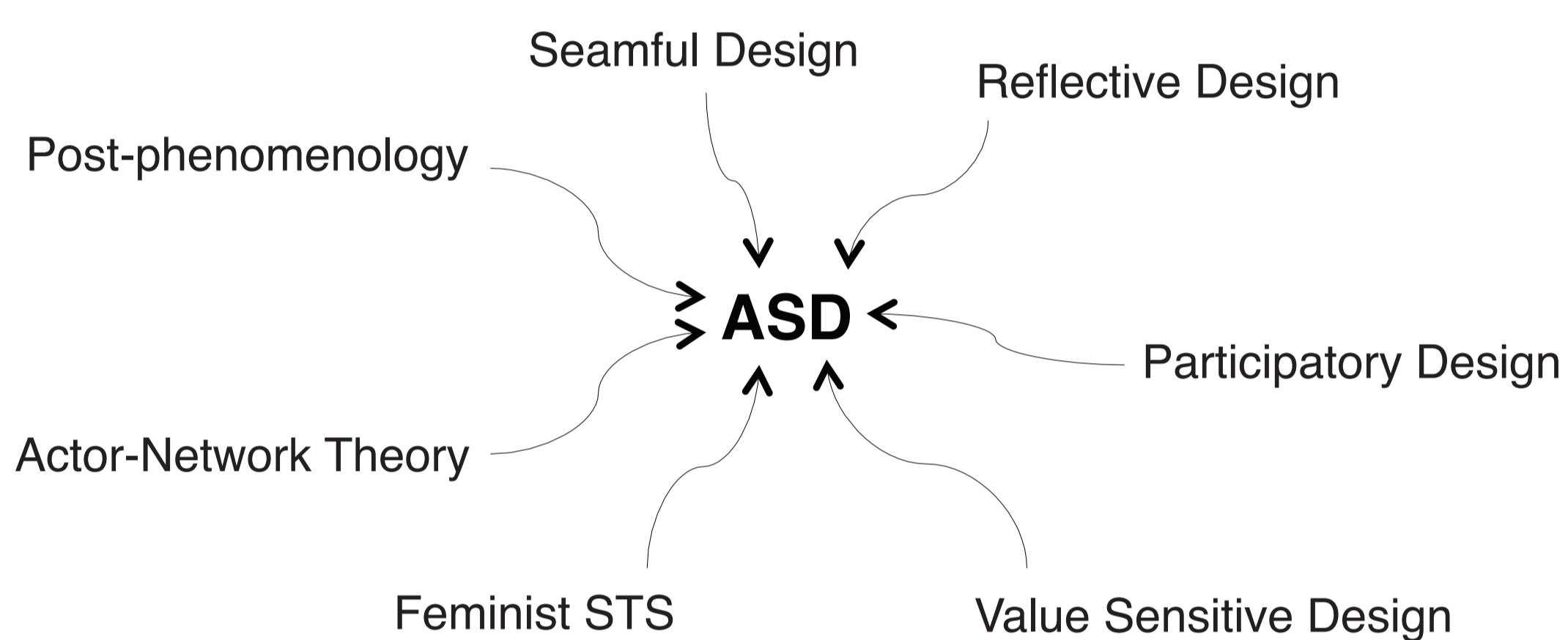
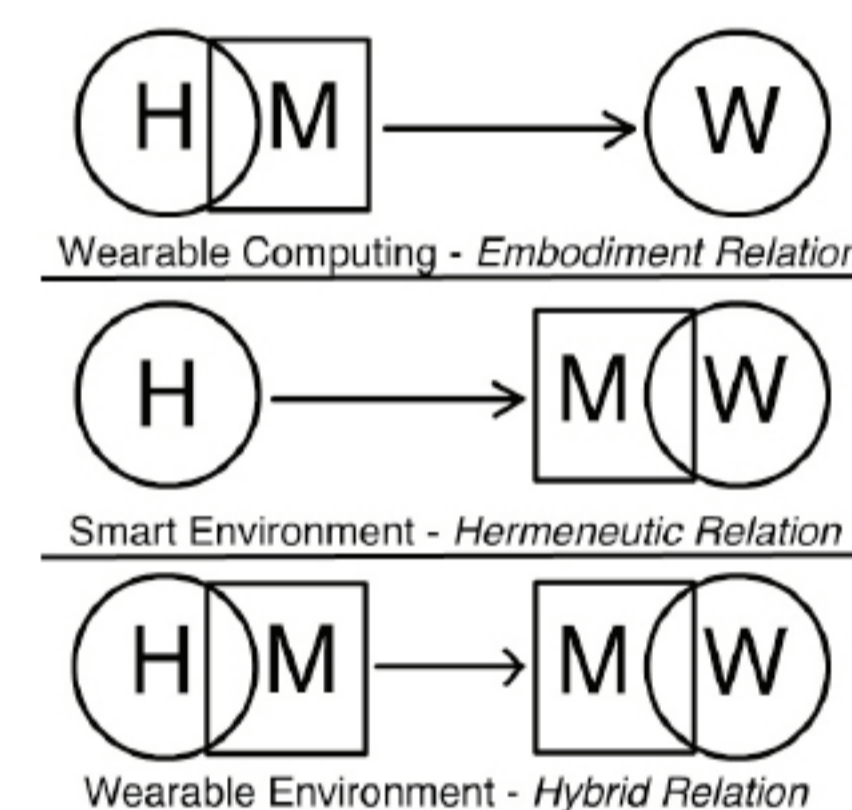


**Human, Machine and World Relations**

Embodiment relation	(human – technology) → world
Hermeneutic relation	human → (technology – world)
Alterity relation	human → technology (– world)

Inde, D. *Technology and the Lifeworld*. Bloomington, Minneapolis: Indiana University Press, 1990.

**Ubiquitous Computing and Human, Machine and World Relations**



**AIM**

TO DEVELOP

A FRAMEWORK FOR DESIGNING FOR AGENCY

- > Embracing variety in the formation of agency
- > Facilitating the fair treatment of human and non-human actants
- > Supporting the emergence and evolution of new forms of agency in production and use of technologies

**STRATEGIES**

**Transparency:**

- . making visible the invisible work, actants and processes in both production and use of technologies.
- eg. *Accounts + Seams*

**Awareness:**

- . the awareness of each actant about their own role and responsibility
- . the awareness about other actants' role and contribution.

**Participation:**

- . the recognition and inclusion of multiple and heterogeneous sources of influence in design processes.
- . cognitive justice (valorizing marginalized views, values etc.)

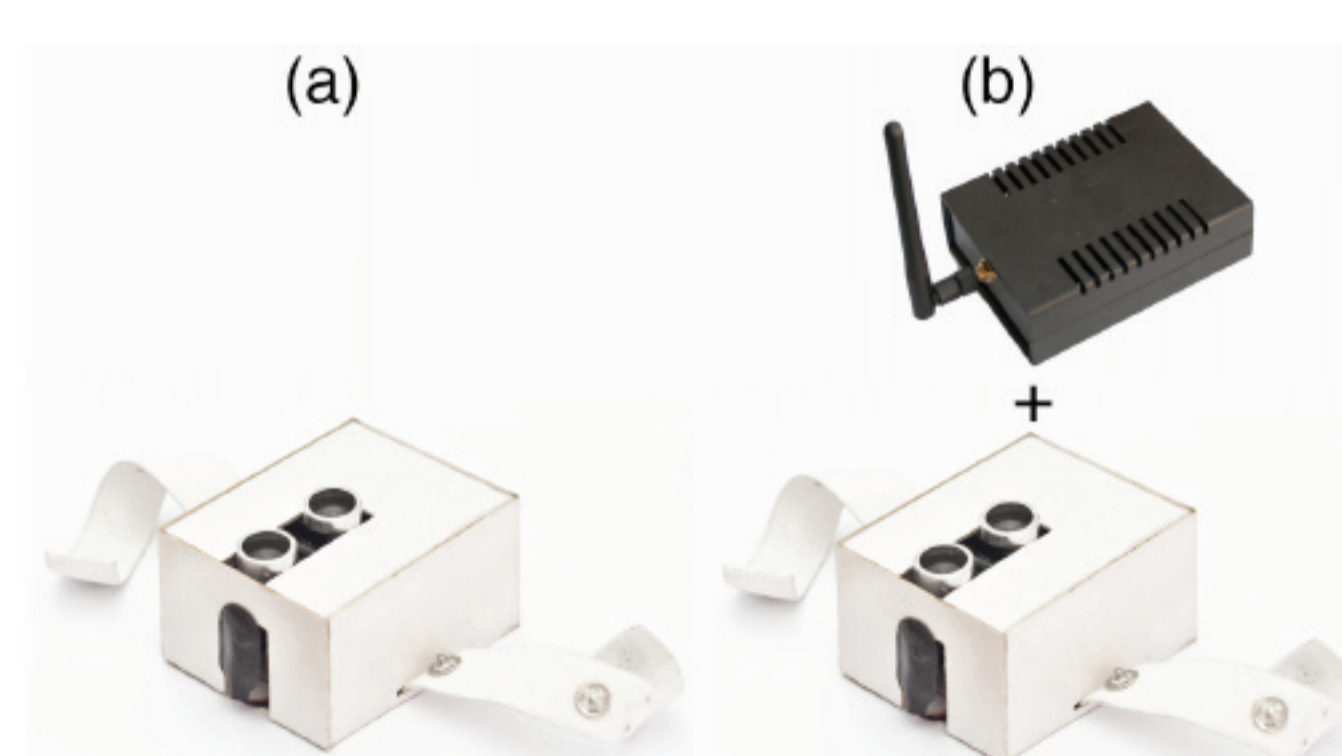
**Designing (configuring)-in-use:**

- . supporting the tuning processes in technology use by making the technologies configurable, flexible, modular and open.

**New Metaphors:**

- . facilitating reconfigurations in use and enabling recognition of every human and non-human actants in a fair way.

**Enactive Coupler (EC) Version 1 (a) and Version 2 (b)**



**Configurations of the Sensing (S) and Effecting (E) Capacities of Machines across Workshops (Ws) 1, 2 and 3**

Configurations	Body 1	Body 2	Space	Workshops
Config. #1	S E			Ws1, Ws2
Config. #2		S E		Ws1, Ws2
Config. #3	S		E	Ws2
Config. #4		S	E	Ws2
Config. #5	S	E		Ws3
Config. #6		E S		Ws3
Config. #7		E	S	Ws3
Config. #8		E	S	Ws3
Config. #9			S E	Ws3

**STAGES OF THE RESEARCH**

**Stage 1**

- configs #1 to #4
- emergence and evolution of new forms of agency

**Stage 2**

- configs #5 to #9
- principles and strategies for Agency Sensitive Design

**Human (H<sub>1,2</sub>), Machine and World (W) Configurations and Corresponding Activities**

