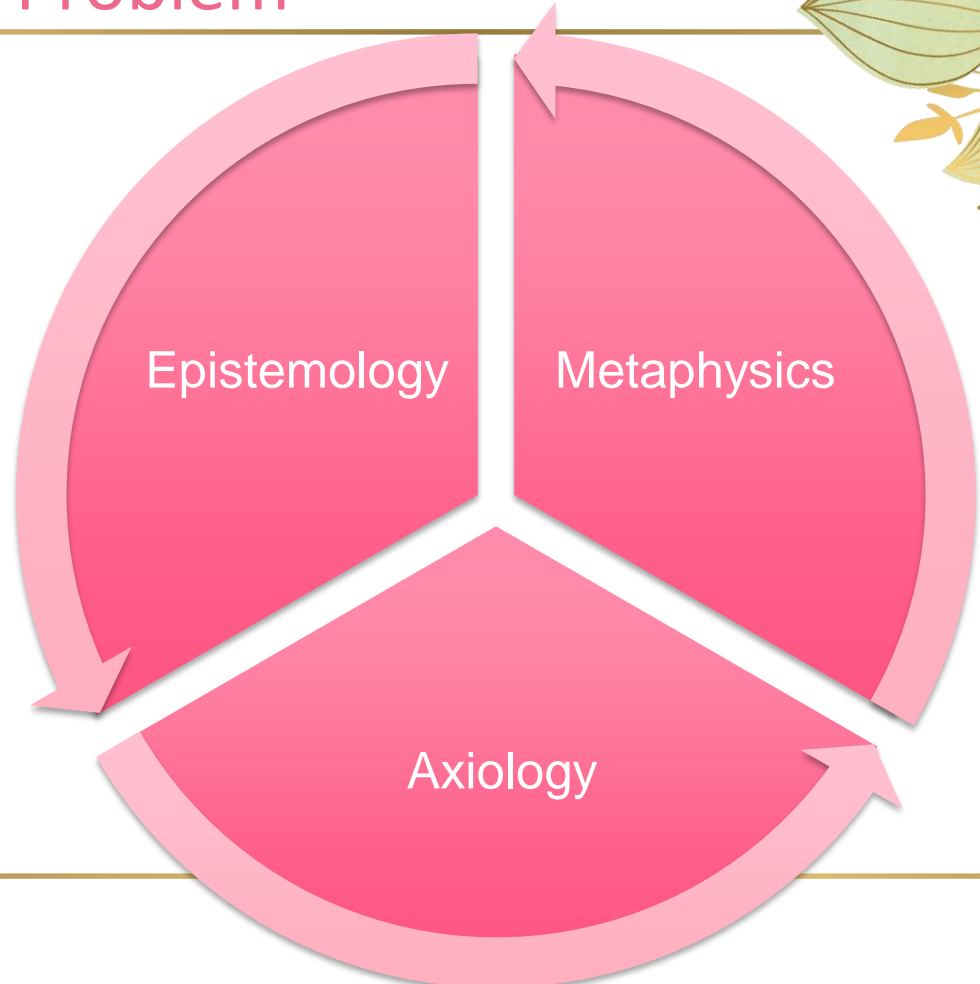


# A Philosophical Perspective On Transdisciplinary Method

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# Philosophical Problem



Dualistic perspectives of the world

Culture-Nature  
Subject-Object  
Rational-Irrational  
Light-Darkness  
Dasein-Things



# ENVIRONMENTAL PROBLEMS AS ECOLOGICAL-EXISTENTIAL CRISIS

- ▷ Misconception of humanity, culture as the opposite of nature.
- ▷ Culture as something inherently man made, or cultivated from human intellectuals, whereas nature is something outside or even estranged from human culture.
- ▷ The existence of human beings, both physically and psychologically cannot be divided entirely from their environment
- ▷ We cannot separate human minds from nature as the source of inspirations.

# Transdiscipline As A Breakthrough Method

Transdisciplinary method is forged as a reaction to the inadequacy of existing methods and disconnection between sciences in facing multidimensional problem, such as climate crises.



# Clusters of Sciences



# Climate Crisis




# Criticism to the Current Structure of Sciences



## Fragmented

**These disciplines are torn into division based on methods, between quantitative and qualitative. Objective-empirical and abstract-philosophical.**



## Exclusive

**Leaving out other non-scientific method of knowing the world through a more artistic revelation using local wisdoms ; folklore, mythologies, oral tradition**



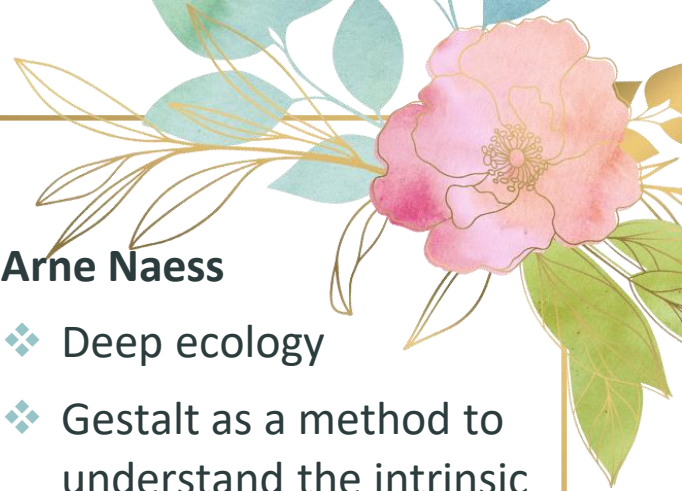
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*“Heterotopias are disturbing, probably because they secretly undermine language, because they make it impossible to name this and that, because they shatter or tangle common names, because they destroy ‘syntax’ in advance, and not only the syntax with which we construct sentences but also that less apparent syntax which causes words and things (next to and also opposite one another) to ‘hold together’”*

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# Returning to Ecological Experiences



## Edmund Husserl

- ❖ Strong criticism towards separation between science and values
- ❖ Underlining intentionality
- ❖ *Hyletic* process of nature.
- ❖ Against absolutism of logical positivism.

## Maurice Merleau-Ponty

- ❖ Flesh/body as ontological realization.
- ❖ Overcoming the opposition between rationalism vs. empiricism.
- ❖ Human's bodies are within Nature's body.

## Arne Naess

- ❖ Deep ecology
- ❖ Gestalt as a method to understand the intrinsic value of nature.
- ❖ Pure reason intuitively seeks meanings in nature .
- ❖ Ecological politics and justice.





“

▷ *“A rhizome ceaselessly establishes connections between semiotic chains, organizations of power, and circumstances relative to the arts, science and social struggles “*

# Transdisciplinary Method by Definition

“a critical and self-reflexive research approach that relates societal with scientific problems; it produces new knowledge by integrating different scientific and extra-scientific insights; its aim is to both societal and scientific progress; integration is the cognitive operation of establishing a novel, hitherto non-existent connection between the distinct epistemic, social organization and communicative entities that make up the given problem context.”

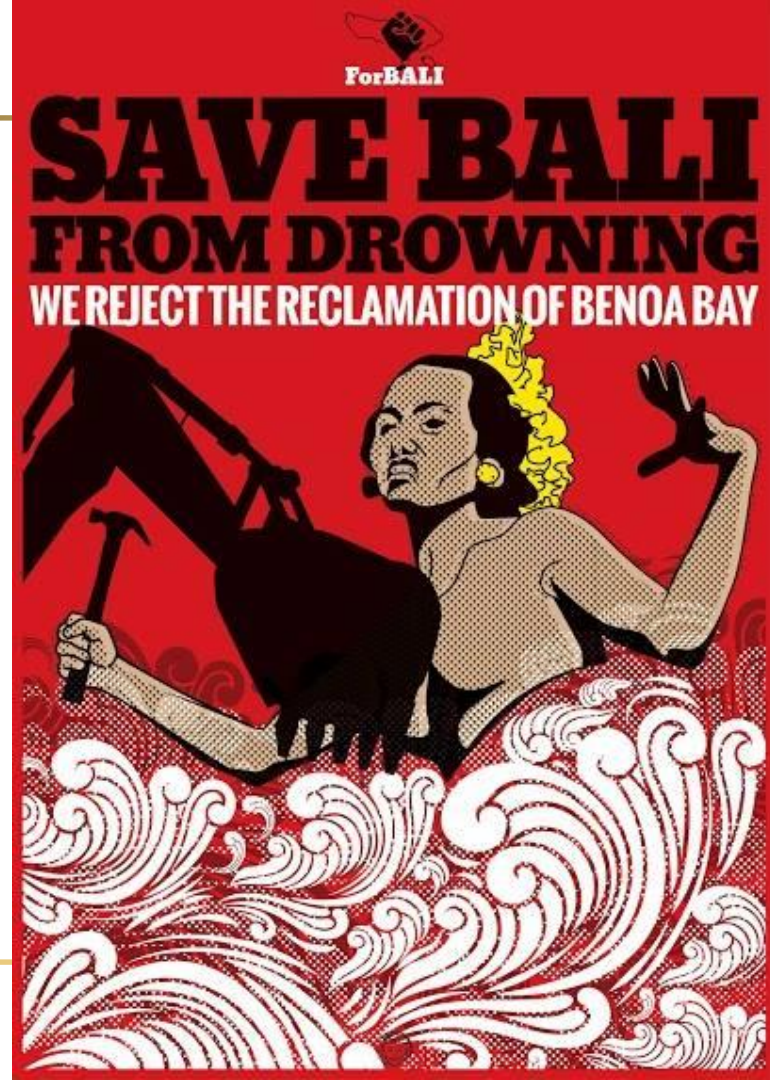
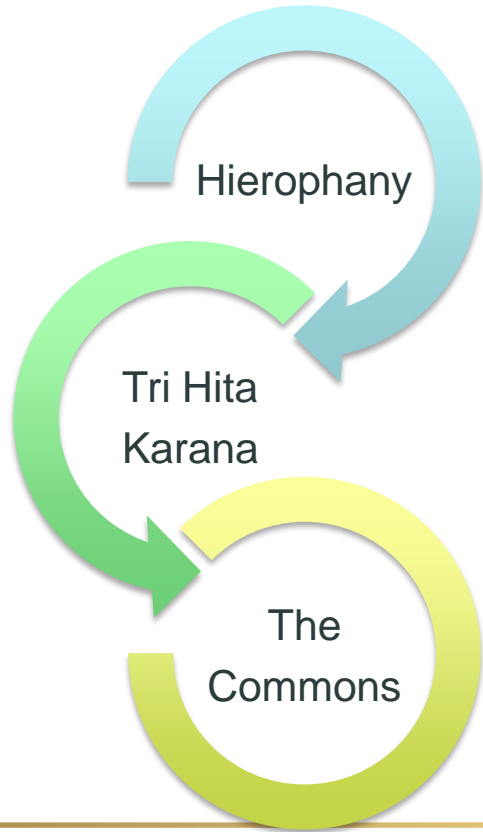
-Jahn, T; Bergmann, M; Keil, F-



## Sacred Knowledge as Critical Narrative

- ❖ Benoa Bay as sacred space
- ❖ Benoa Bay has been the epicenter of a social-ecological movement started since 2013.
- ❖ This vulnerable ecosystem is being threatened by a reclamation megaproject, for the purpose of building tourism infrastructure
- ❖ Balinese shaped their lifeworld through the encompassing philosophy of *Tri Hita Karana* or Three causations of happiness

# Production of knowledge through transdisciplinary approach



## Reconstructing Myth & Ritual as Collective Rediscovery

- ❖ Reviving the sacred rites, including *Sang Hyang Dedari* and the others *Sang Hyang* dances such as *Sang Hyang Ukupan* (Nusa Ceningan), *Sang Hyang Grodogan* and *Bunga* (Nusa Lembongan), *Sang Hyang Memedi* (Tabanan), and *Sang Hyang Bojog*.
- ❖ Local wisdom as a cultural defense against environmental threats.
- ❖ The power of community, *paguyuban* rebuilding the ecosystem.
- ❖ Understanding technology integrated in the sacred ritual and belief.

# Areas of Research

Agriculture Tradition in Karangasem



Fishing Tradition in Nusa Penida and Nusa Lembongan





# Thank You!

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