Carsten Herrmann-Pillath

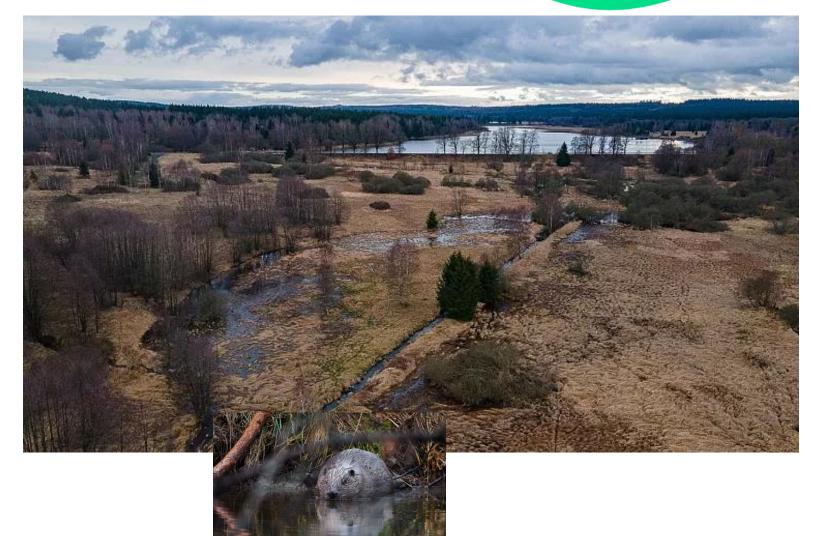
Max Weber Centre for Advanced Cultural and Social Studies University of Erfurt, Germany

www.cahepil.net

www.technosphere.blog



Cultural niche construction as more-than-human infrastructural landscaping



Iconic species: Beavers

- Growing recognition of ecosystem services delivered by beavers
- Even in the context of urban hydro-management
- However, cohabitation is fraught with tensions: Beavers are autonomous actors

Welden, E. A. "Conceptualising Multispecies Collaboration: Work, Animal Labour, and Nature-based Solutions". *Transactions of the Institute of British Geographers* 48, https://doi.org/10.1111/tran.12593.



Lessons

Beavers create functional equivalences to infrastructure (grey vs green dams)

NBS and multi-species stakeholder approach: How can beavers get voice?

NBS engaging beavers is cultural niche construction by humans

Is "voice" only language? Rancière: Voice is action – political aesthetics

Can humans recognize beavers as equals? (Kant morphing into more-than human?)

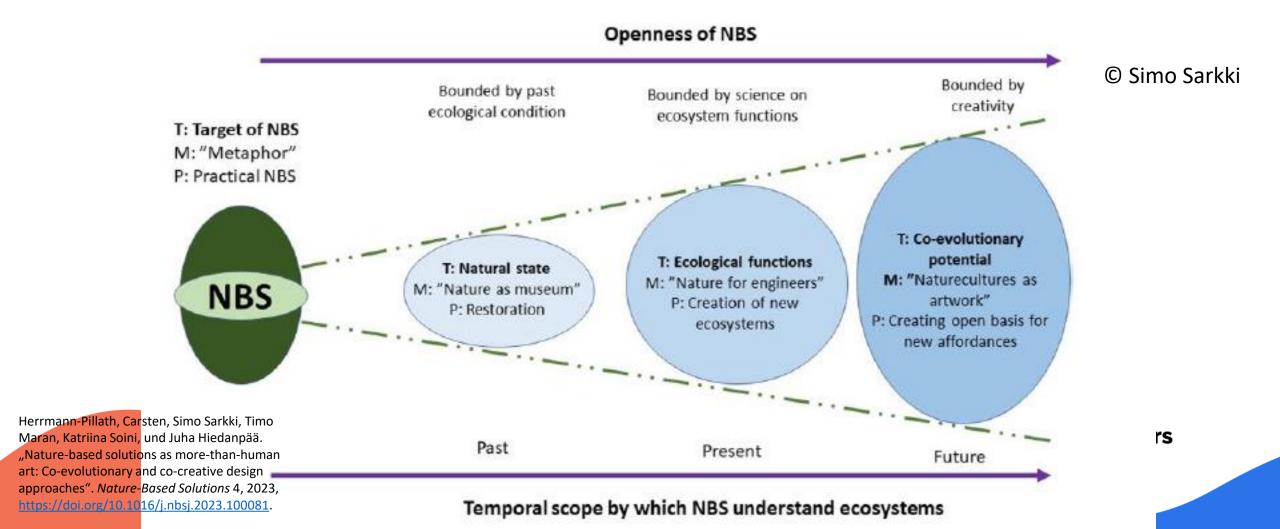
Multi-species niche construction: a "body politic"

Maan Barua. Infrastructure and non-human life: A wider ontology. *Progress in Human Geography* 45, 2021, https://doi.org/10.1177/0309132521991220.

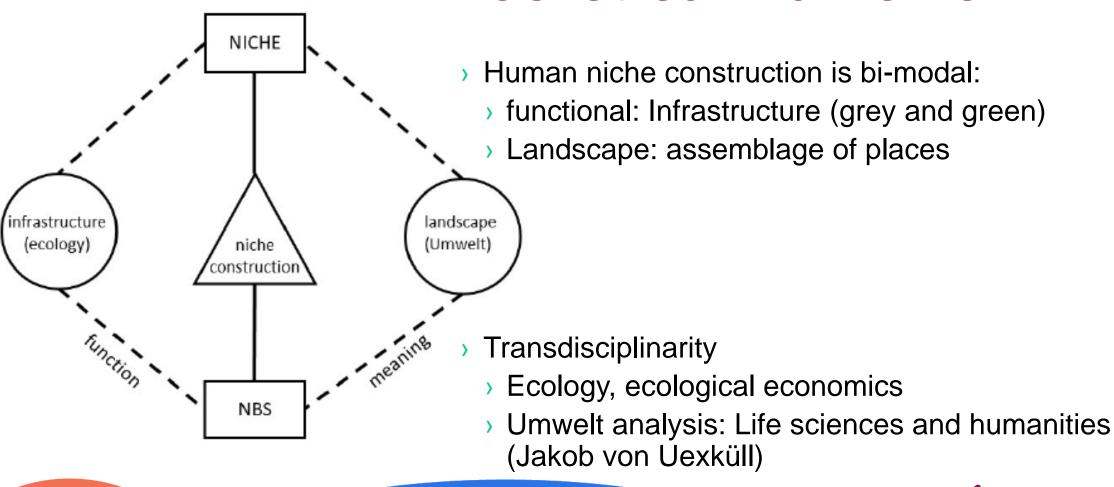
Houston, Donna, Jean Hillier, Diana MacCallum, Wendy Steele, und Jason Byrne. Make kin, not cities! Multispecies entanglements and 'becoming-world' in planning theory. *Planning Theory* 17,2018, https://doi.org/10.1177/1473095216688042.



COEVOLVERS: From ecosystem services to coevolutionary Nature-based solutions



Theoretical framework



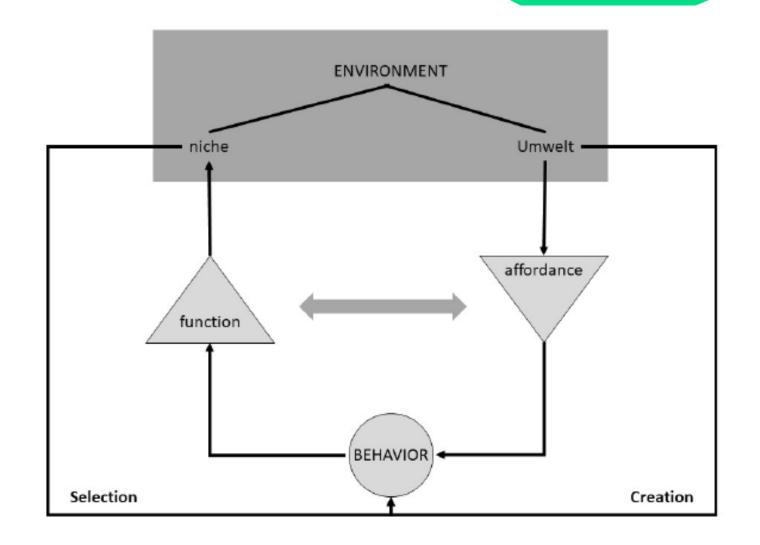




Ernst Mayr

If I want to be shocking, I would say that the border line between the so-called exact sciences and the humanities, social sciences (Geisteswissenschaften) coincide with the border line between functional biology and evolutionary biology. (1999)

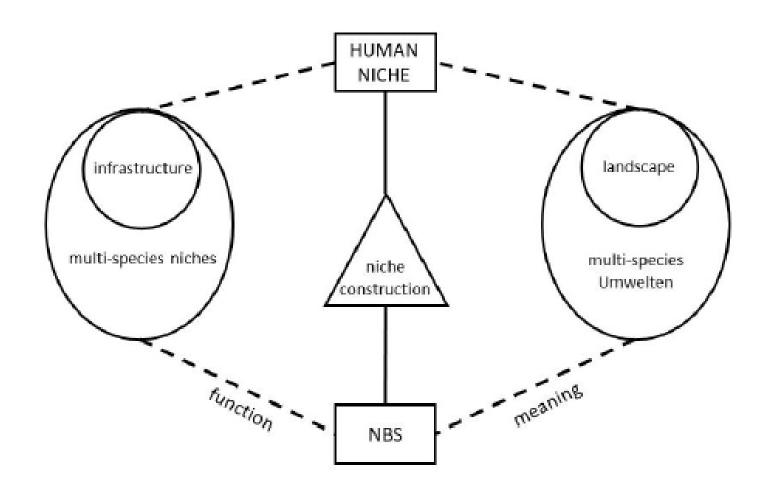




Niche construction

- Selection: Emergence of function exaptation (Gould)
- Creation: Emergence of meaning – Umwelt affordances (von Uexküll)

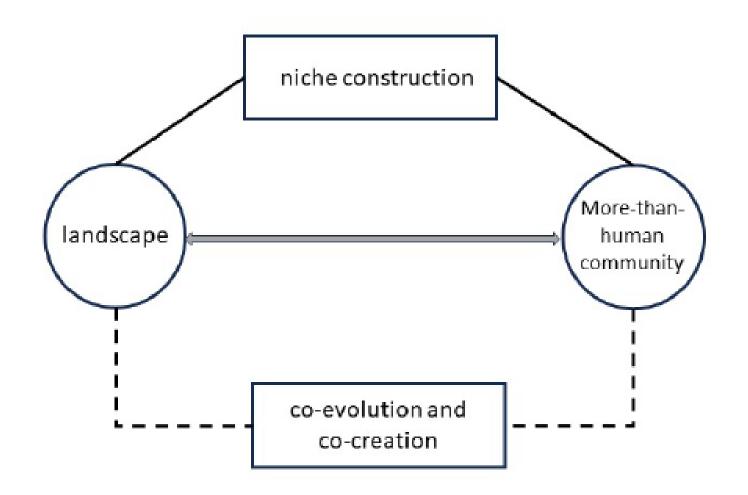




Multi-species niche construction

 Human cultural niche construction creates affordances for other species





Landscapes as body politic

 Landscapes as assemblages of places that embody more-than-human communities



Infrastructure and Nature-based governance

"Nature-based governance grounds governance mechanisms in embodied more-than-human practices with normative force"

Sensory governance: Material governmentality → Infrastructure coevolves with the formation of habitus (or, habits: Bourdieu plus pragmatism)

Niche construction co-creates infrastructure as Umwelt assemblages: AESTHETICS (Richard Prum)





John Ruskin

- What is the "gothic"?
 - > 1. Savageness.
 - > 2. Changefulness.
 - 3. Naturalism.
 - 4. Grotesqueness.
 - > 5. Rigidity.
 - > 6. Redundance.

- Who is the "gothic artist"?
 - 1. Savageness or Rudeness.
 - 2. Love of Change.
 - 3. Love of Nature.
 - 4. Disturbed Imagination.
 - 5. Obstinacy.
 - > 6. Generosity.



Herrmann-Pillath, Carsten: Imagining Utopia in Eco-Social Transformation: More-Than-Human Property and Gift-Exchange Between People and Nature, in: Walter Otto Ötschet al. eds, Das Imaginative der Politischen Ökonomie, Marburg: Metropolis, 2024, 307-328

From Bauhaus to more-than-human gothics?

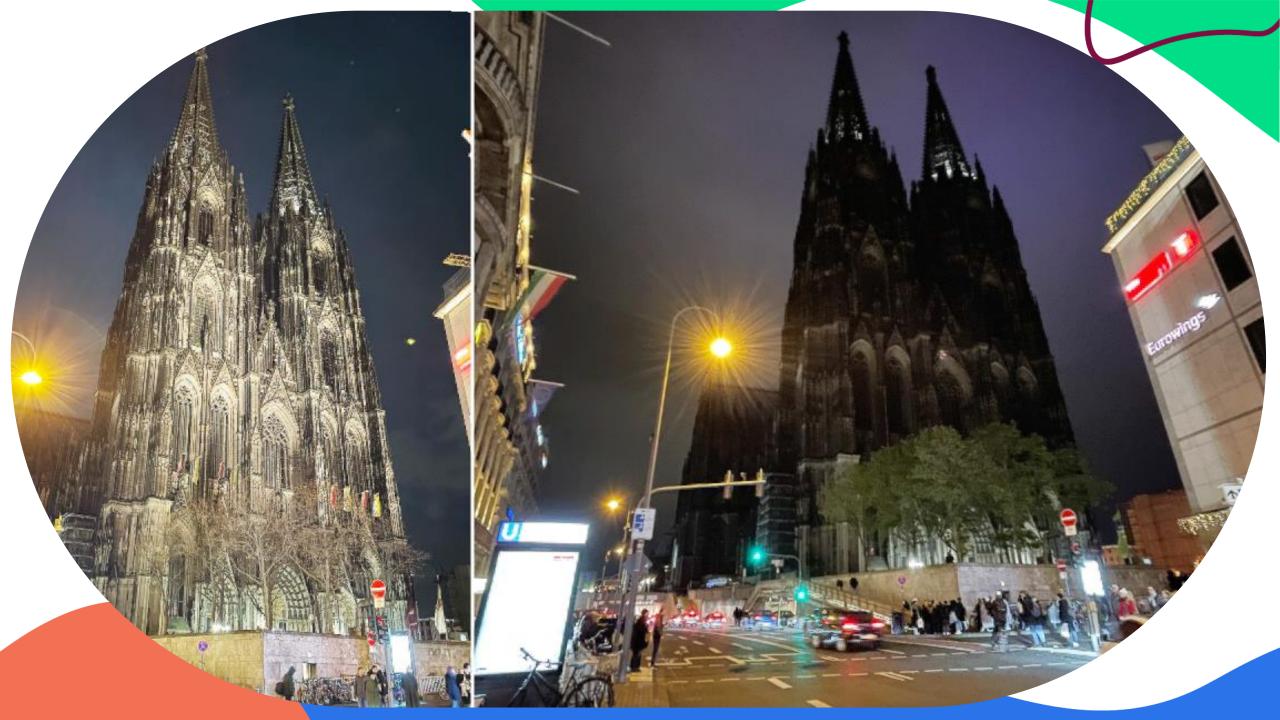


Bauhaus building, Dessau



Margam castle







Timothy Morton

- > Ruskin 2.0?
- "All art is ecological"
- Beauty as embodied experience of "alreadiness"
- Transcending the Kleistian trap of rational control (as ethical commitment)
- "You don't have to be ecological. Because you are ecological."

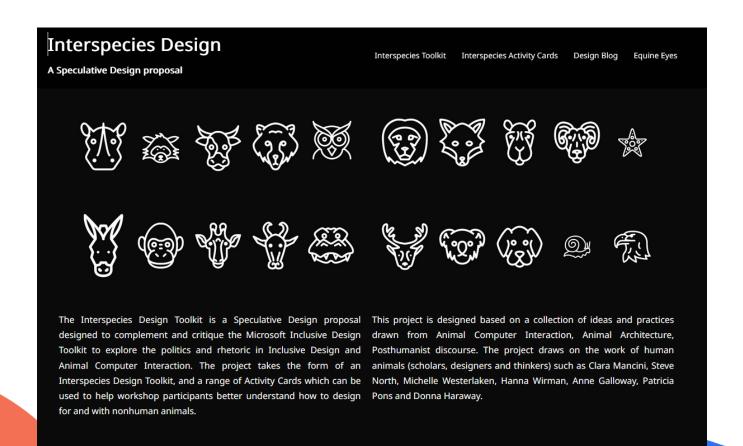


The creators



Interspecies design

https://www.interspeciesdesign.co.uk/interspecies-toolkit/





Interspecies design

https://ecolopes.org/

HEX ISTING

Grobman, Yasha J., Wolfgang Weisser, Assaf Shwartz, Ferdinand Ludwig, Roy Kozlovsky, Avigail Ferdman, Katia Perini, u. a. "Architectural Multispecies Building Design: Concepts, Challenges, and Design Process". Sustainability 15, 2023.

https://doi.org/10.3390/su152115480.

Interspecies design

https://wiki.deepdesignlab.online/notes/cj0pg19bdnegrhbtlloje8u//









Practices: More-than-human mapping

Building infrastructure requires mapping

Human mapping is appropriative and disembodied

Disembodiment is disenfranchising non-

human species (and many vulnerable humans)

Affordance mapping, emotional mapping, behavioural mapping...

COEVOLVERS; Virtual nature tool and participatory mapping (Team Hutton)

Mapping soundscapes and smellscapes (Team Cagliari)





Outlook

- > Multispecies niche construction requires more-than-human design and implementation
- "landscaping" means designing and sustaining human places that offer an exuberance of affordances for other living beings
- The criteria cannot be functional since we are ignorant about the key parameters, present and future
- Hence, multispecies niche construction is guided by an "Aesthetics of care" (Saito) ritual as a primordial form

























Thank you for your attention!

Carsten Herrmann-Pillath

