



Textile Transitions – More than Human Perspectives

Svenja Keune



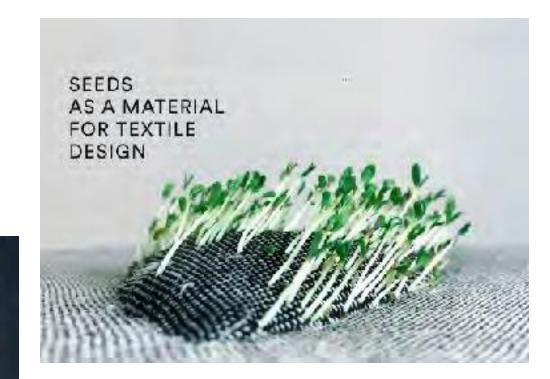
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SVENJA KEUNE, PHD - RESEARCHER AT THE UNIVERSITY OF BORÅS, SWEDEN



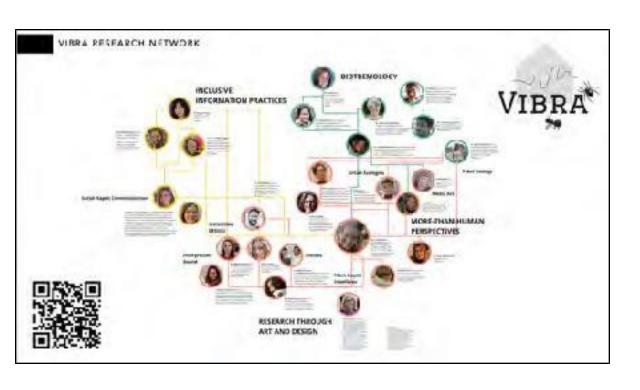
2018 LICENTIATE UNIVERSITY OF BORAS



2020-2023 INTERNATIONAL POSTDOC GRANT



SINCE 2022 I.N.S.E.C.T. SUMMERCAMPS



VIBRA RESEARCH NETWORK



2024-2027 WEAVING WITH EARTH BEINGS (WEB)



2024-2025 MUSEIT -SUBJECTIVE LAYERS





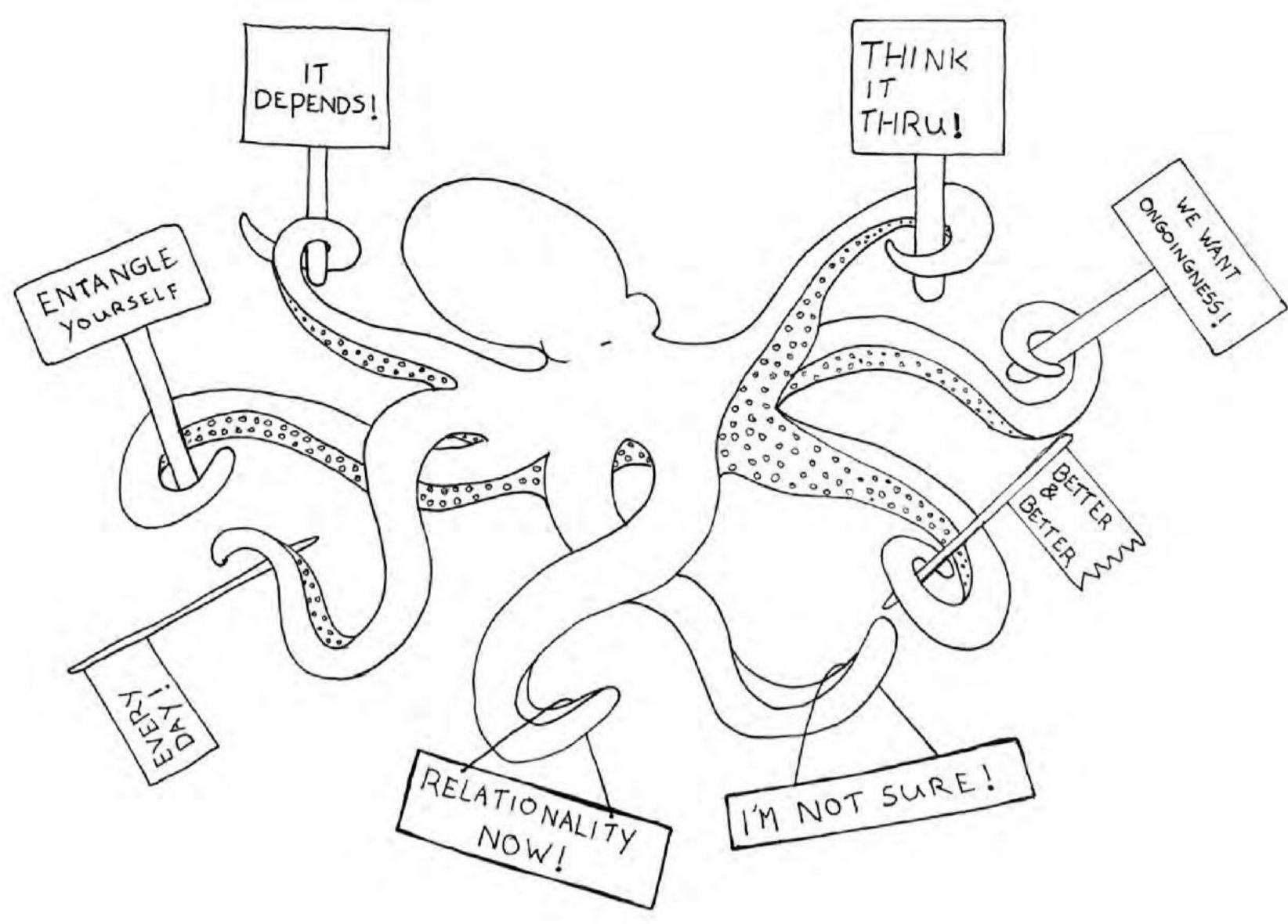
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2019 PHD UNIVERSITY OF BORÅS

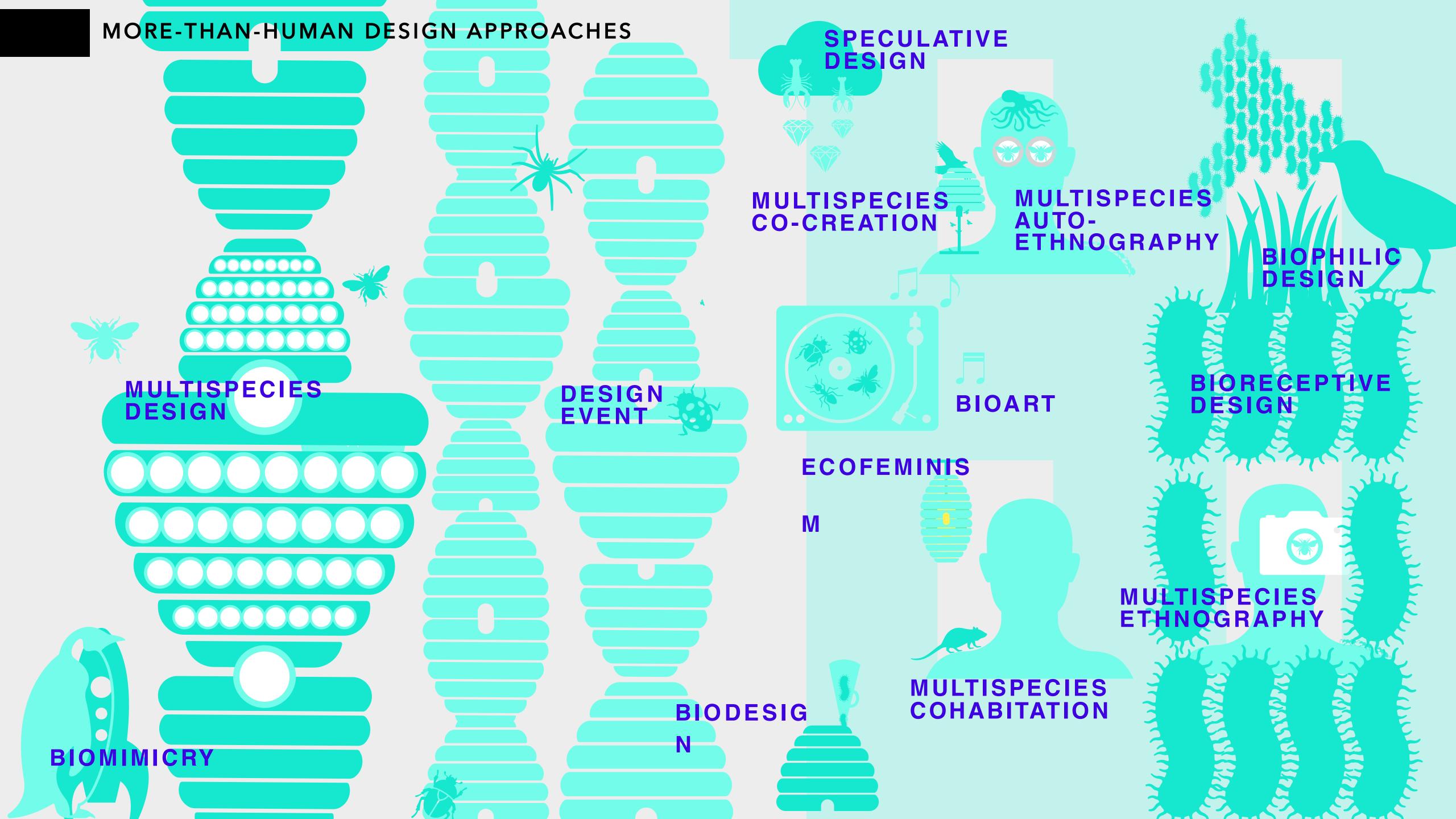


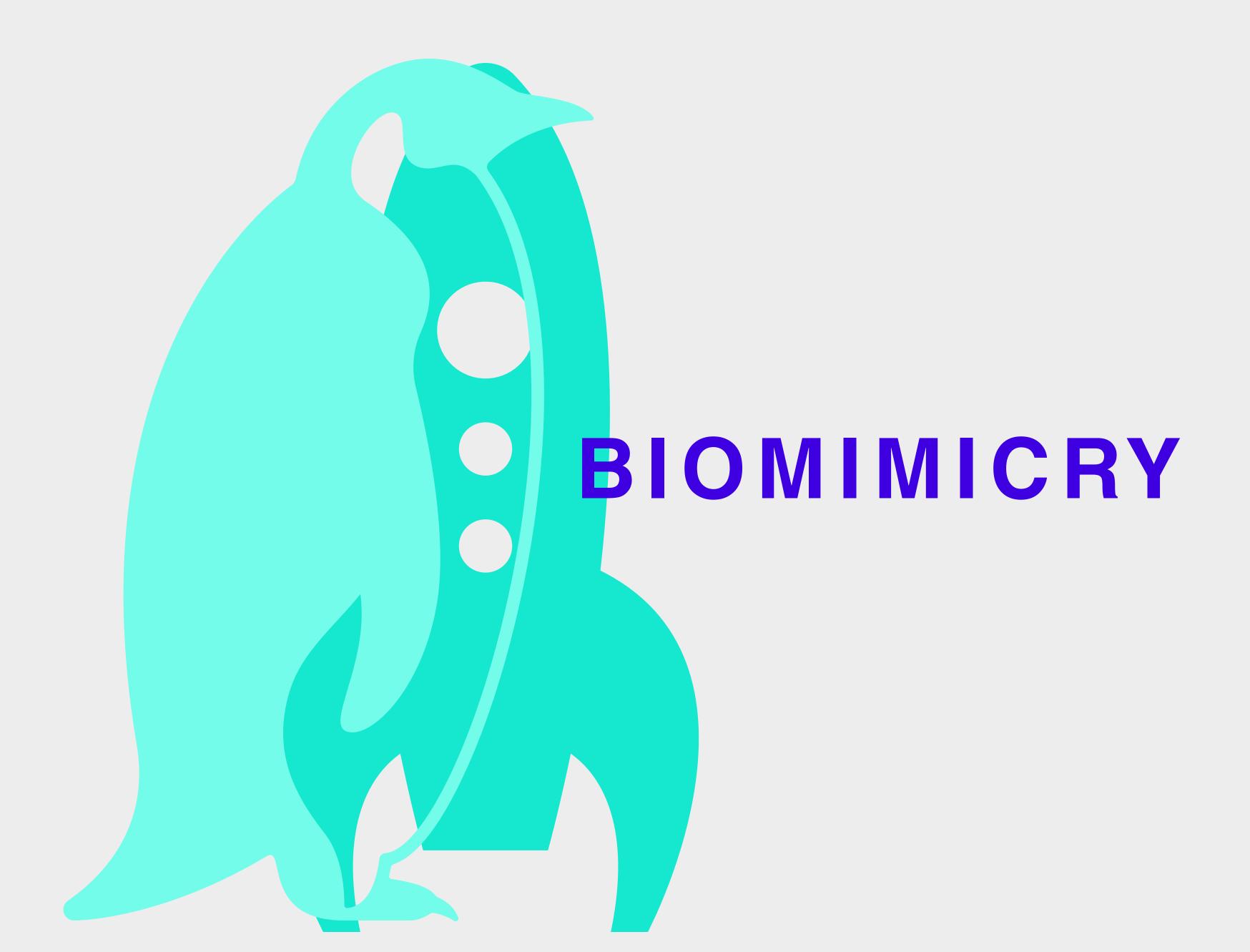
There are quite many different ways in which designers approach the morethan-human. For example, one can get inspired by how Octopus can change colour and adapt to their surroundings (Biomimicry) and represent this phenomenon with textiles that are dyed or stiffened by bacteria (Biodesign). One can design artificial habitats for Octopus (Multispecies Design), provide them with a prototype to observe and learn from their reactions and interactions (Design Event), or spend time to engage in each other's worlds as yet another approach (Multispecies Autoethnography).

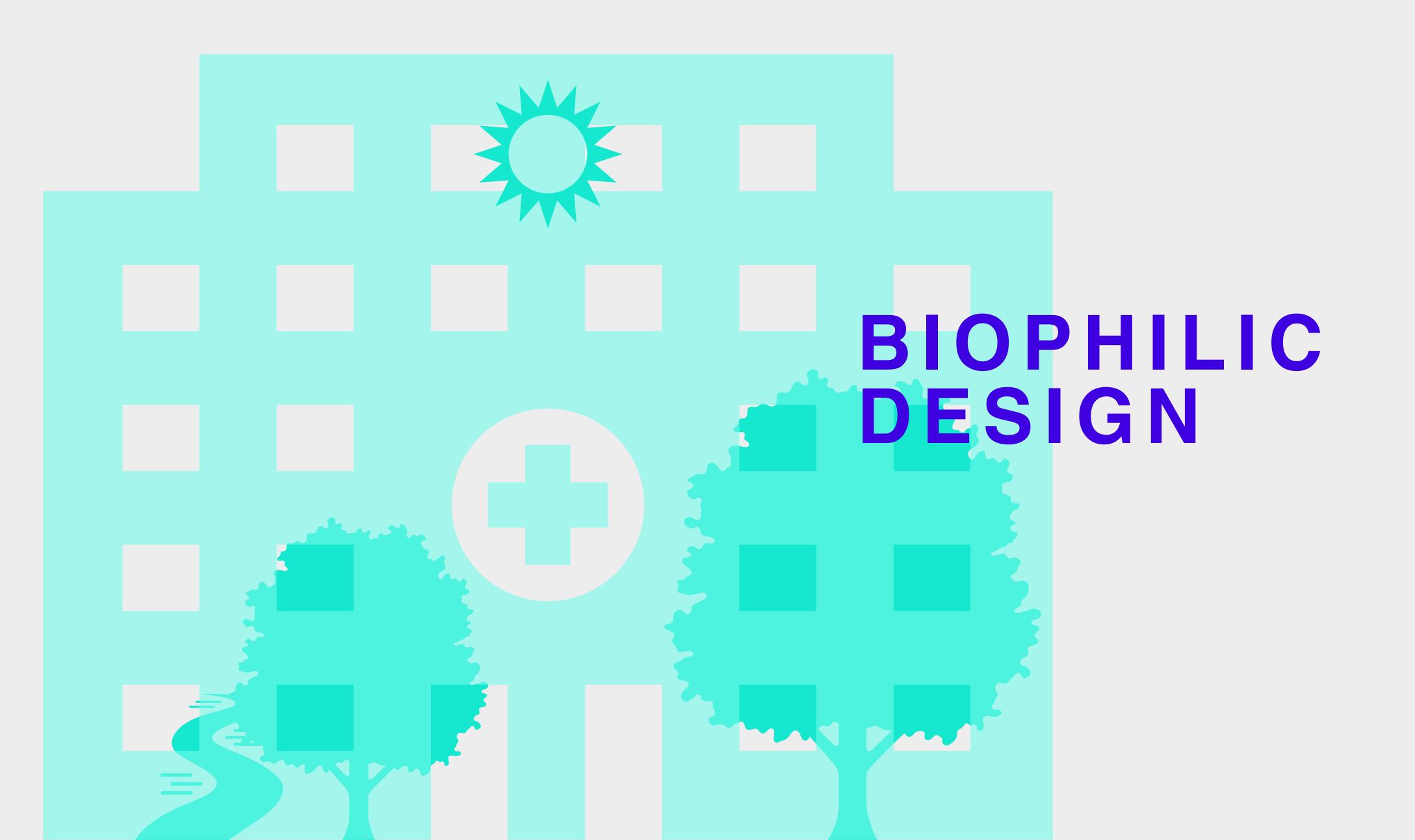


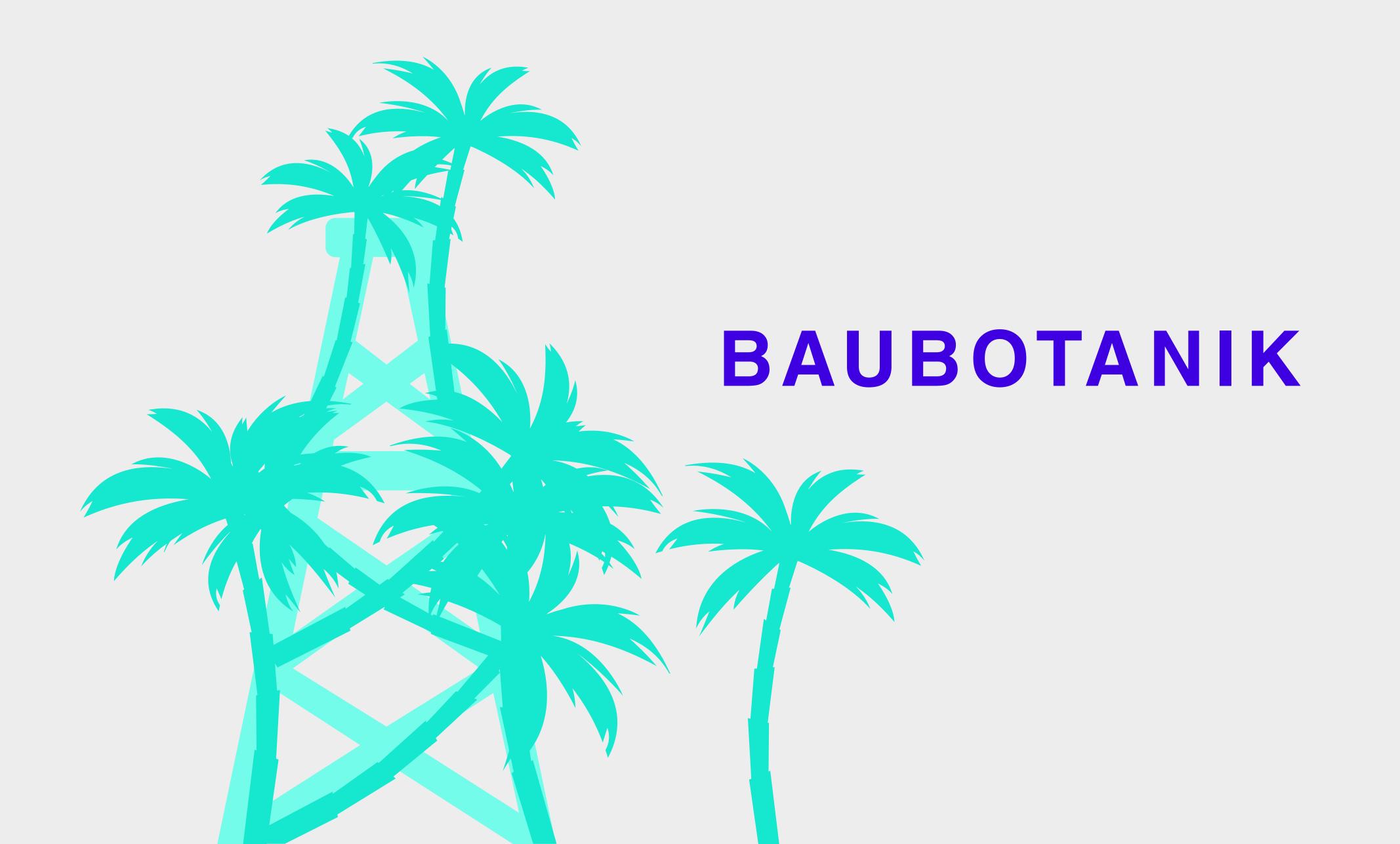
Westerlaken, M. (2021). The telltale worlds of the octopus, *e-flux Architecture*, a collabo<u>ration with the Solomon R. Guggenheim</u>

<u>Museum. Available via https://www.e-flux.com/architecture/survivance/</u>
379308/the-telltale-worlds-of-the-octopus/

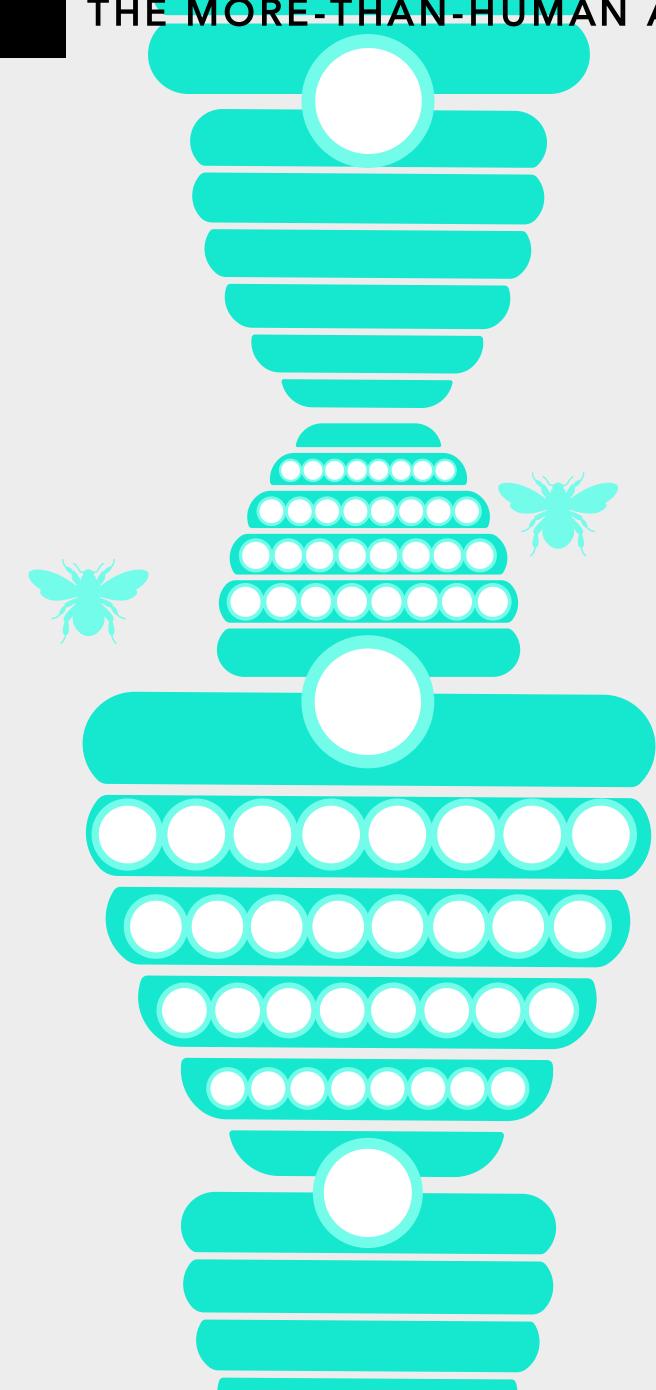






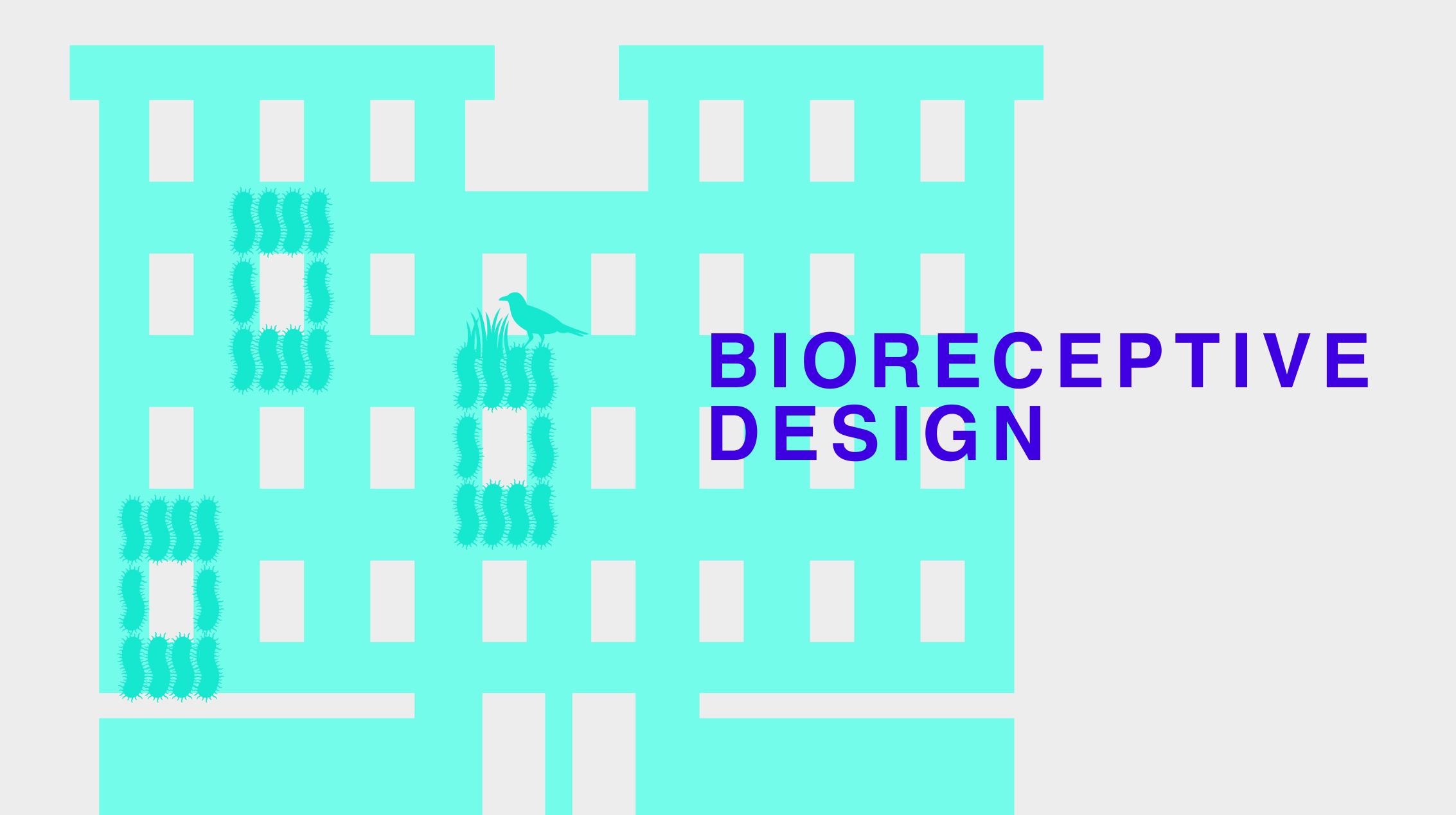






MULTISPECIES DESIGN









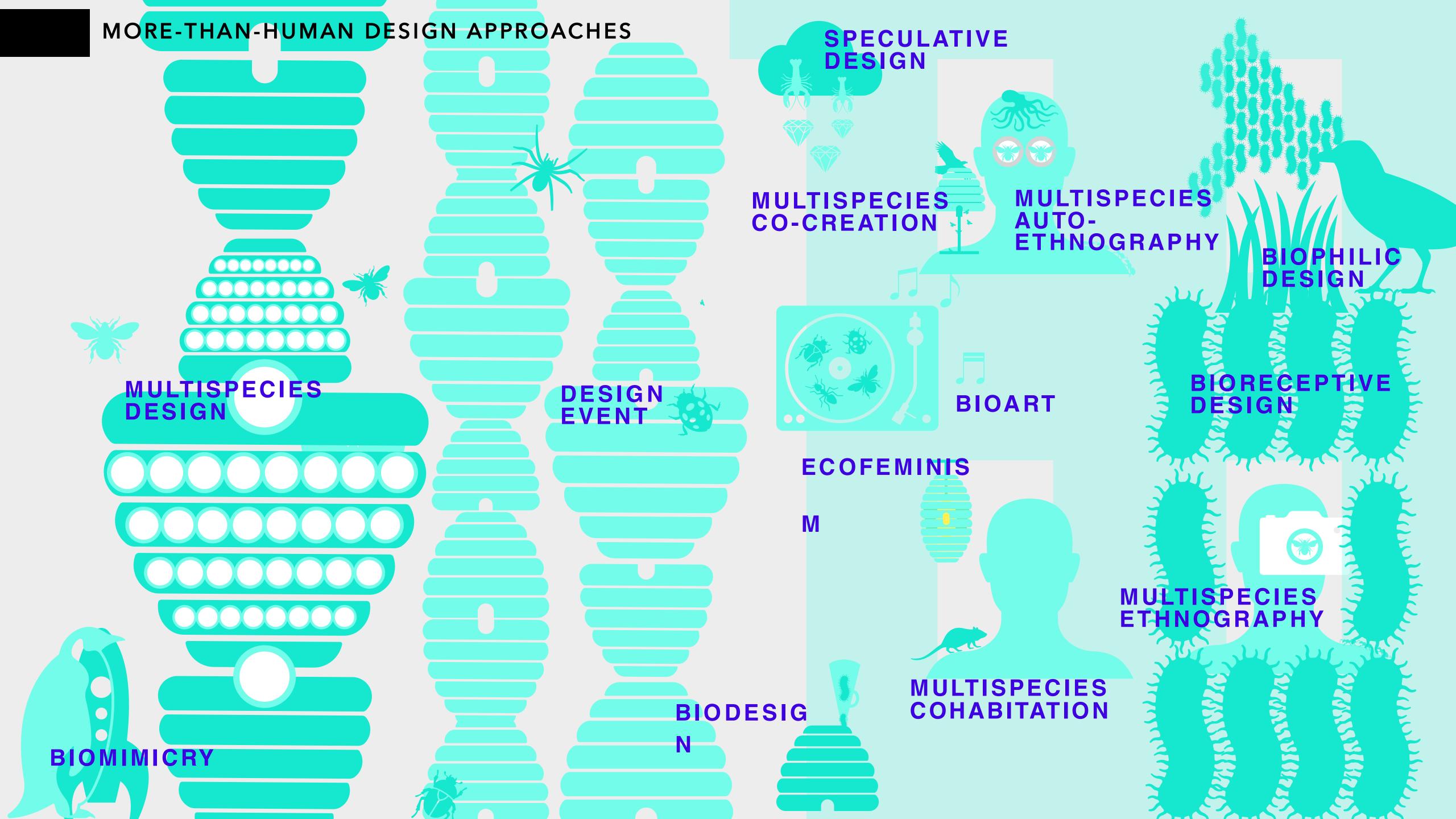


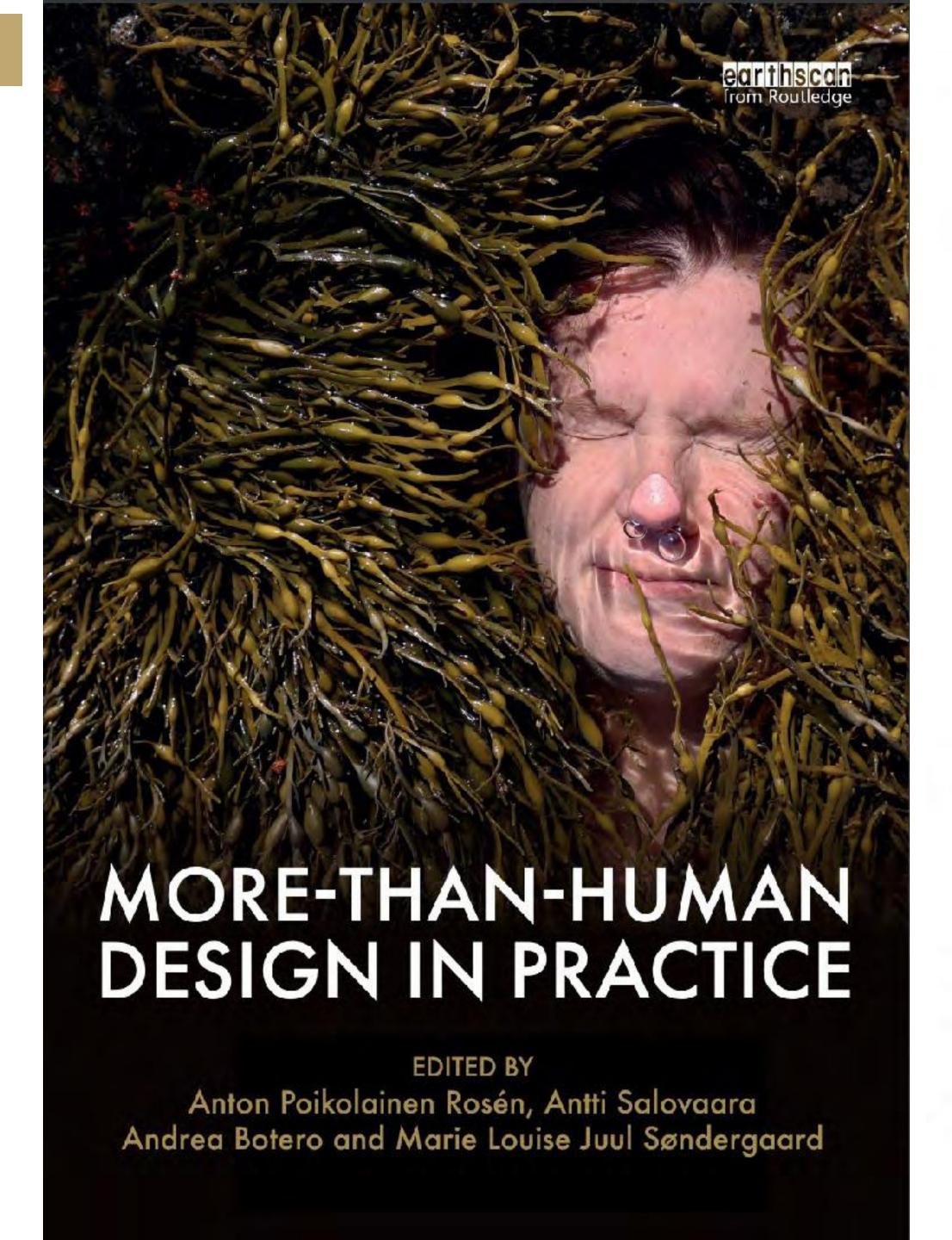




SPECULATIVE DESIGN









Chapter

Design by/for/with/about/without Animals

Tactics for Animal Liberation

By Michelle Westerlaken, Erik Sandelin

Book More-Than-Human Design in Practice

Edition 1st Edition

First Published 2024

Imprint Routledge

Pages 13

eBook ISBN 9781003467731



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ABSTRACT

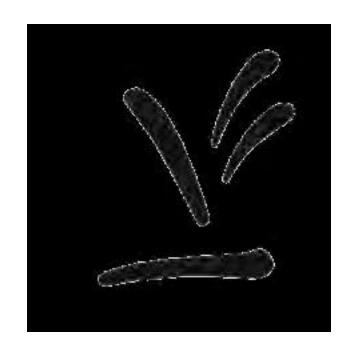
As part of a larger 'animal turn' in the arts and humanities, the field of design research has increasingly oriented itself towards multispecies efforts. However, explicit references to Critical Animal Studies or animal liberation are still rare in design. This raises a fundamental concern about how more-than-human design may inadvertently perpetuate animal oppression by creating technologies, systems and artefacts that ultimately reinforce the exploitation of animals. In this chapter, we sketch the landscape of design research that is first-and-foremost driven by a critique of animal oppression. Through a mapping and discussion of existing design projects in relation to Critical Animal Studies literature, this text assembles a repertoire of tactics, questions and examples that can be of practical use for design scholar-activists interested in crafting proposals towards living with animals in ways that involve multispecies justice. We thereby argue that part of being a designer requires us to become aware of the dilemmas, of problematic norms, of uncomfortable spaces, and



DESIGNING AND LIVING WITH ORGANISMS

(DLO) 2020-2023

DLO is a postdoctoral project financed by the Swedish Research Council, and involved the Centre for Information Technology and Architecture (CITA) at The Royal Danish Academy of Fine Arts Schools of Architecture, Design and Conservation (KADK) and the Smart Textile Design Lab at the Swedish School of Textiles, University of Borås.











SHEARING LAYERS
OF COHABITATION



I.N.S.E.C.T. WALL TWIN



MULTISPECITY

202

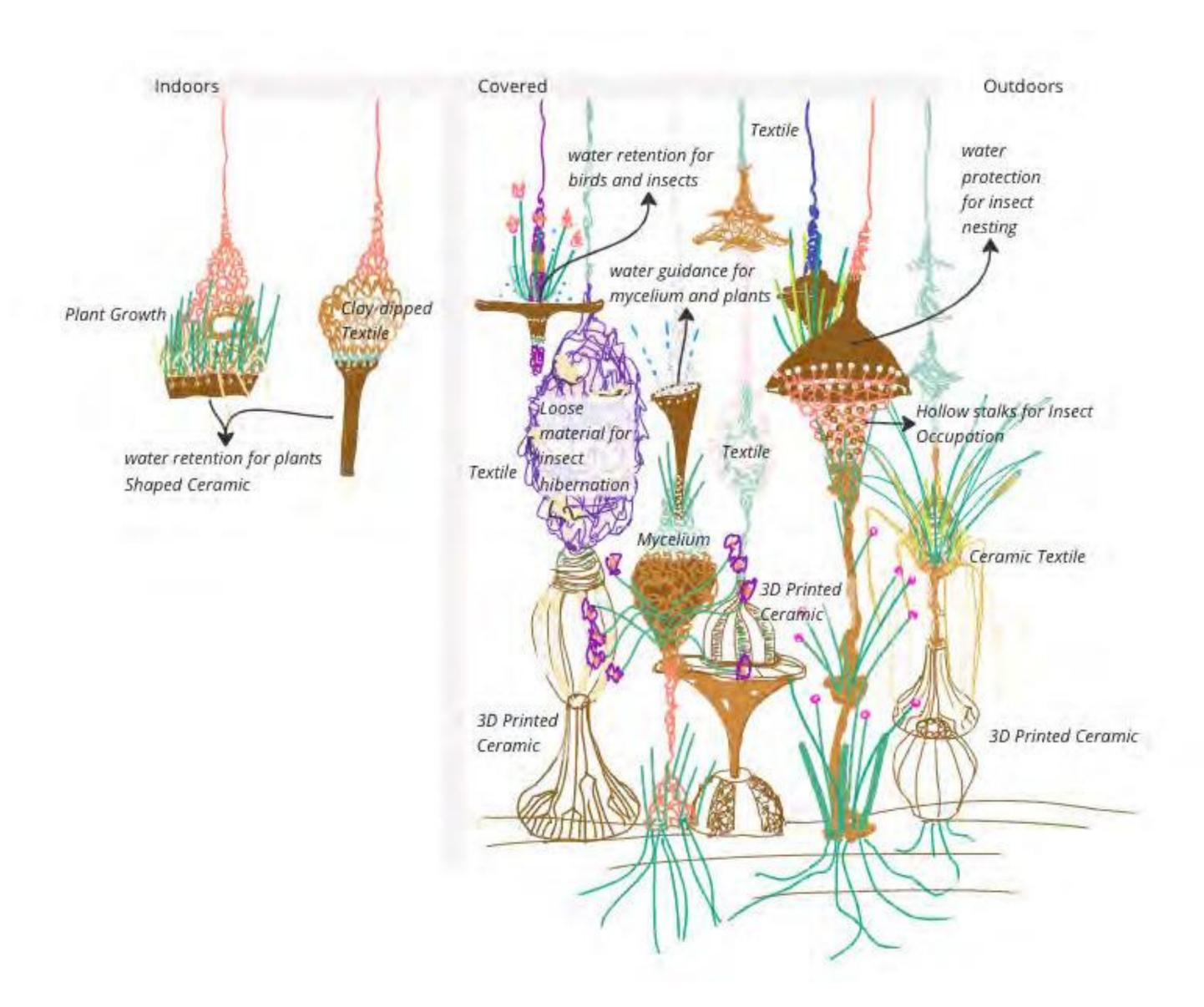
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2

3

MULTISPECITY



This installation explores the potential of

POROSITY AND TEMPORALITY

in crocheted textiles, ceramic textiles, and 3d printed ceramic

IN REGARD TO MULTISPECIES.

arthropods, plants, birds, fungi, microorganisms

THE INSTALLATION IS AN EVENT SPACE

that is simultaneously the researchers living space

AND INVITES FOR ALL KINDS
OF INTERACTIONS BY
PROVIDING A DIVERSE SET OF
MATERIAL QUALITIES,
SURFACES, ENCLOSURES, AND
MICROCLIMATES.







TEXTILE DESIGN EVENTS - RESEARCH ARTICLE



Textile design events: An investigation into textile entanglements with insects and other living organisms

Svenja Keune @ and Ariel Cheng Sin Lim

ABSTRACT This paper investigates textile-based artefacts as a starting point to engage in more-than-human entangled design processes. Instead of catering designs towards targeted species, the focus was on generating a palette of expressions that might inspire more-thanhuman interactions through the integrated diverse shapes, surfaces and materials. Drawing from design approaches that seek to re-center the more-than-human in human interventions, we understand other organisms as clients of design, active participants in the design process, and as co-inhabitants. Complementing freeform crocheted textiles with ceramics and 3D printing, we created a series of artefacts with a multitude of textures, porosities, permeabilities and flexibilities. The variation was extended by further explorations in biomaterial coating and integrating substrates. From this range of experimental work, we present three selected Textile Events. These textile-based Design Events were gradually set up in the spring of 2022 around the Tiny House on Wheels

(THoW) of one of the authors. Embedded in the local

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Keune, S., & Lim, A. C. S. (2024). Textile design events: An investigation into textile entanglements with insects and other living organisms. Journal of Textile Design Research and Practice, 1-22. https://doi.org/10.1080/20511787.2024.2392346

Svenja Koung, PhD: a researcher focusing on multispecies perspectives to design by employing multispecies auto-ethnography and practice based artistic research. As a passionate weaver, Svenja co-founded and fadilitates the I.N.S.E.C.T. Summercamps and initiated the VIBRA svenja.keune@hb.se

Ariel Cheng Sin, I im: Architect and researcher with an MA in Computation In Architecture. Her work engages digital modelling and fabrication to create new architectural possibilities and forms of expressions. Current specialisation in 3D printing with, and for, living or

coursel of Textile Design Research and Fractice — Photocopying permitted by Idense only Voumo 0, Issue 0, pp # -22 DOI: 10.1080/20611787.2024.2392346

PUBLICATIONS RELATED TO DLO

Keune, Svenja. "Designing and Living with Organisms Weaving Entangled Worlds as Doing Multispecies Philosophy." **Journal of Textile Design Research and Practice** 9, no. 1 (January 2, 2021): 9-30. https://doi.org/ 10.1080/20511787.2021.1912897.

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<u>Insects, Fungi, and Humans." **Temes de Disseny**,</u> no. 39 (July 27, 2023): 228-47. https://doi.org/10.46467/TdD39.2023.228-247.

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Juul Søndergaard. Abingdon, Oxon; New York, NY: Routledge, 2025.



The I.N.S.E.C.T. Summercamp is an annual get-together of researchers, artists, and designers involved in or interested in more-than-human perspectives to design. Besides a focus on human co-creation, the camp methodology is continuously evolving and adjusting to the yearly theme of the camp and the co-created activities.



PART 1: INTERSPECIES EXPLORATION BY BIODIGITAL MANUFACTURING TECHNOLOGIES



PART 2: TOWARDS

MULTISPECIES WORLDINGS AS

AN EVERYDAY DESIGN

PRACTICE



2023 I.N.S.E.C.T. SUMMERCAMP



2024 I.N.S.E.C.T. SUMMERCAMPEXPLORING VIBRATION AS A SENSORY
MULTISPECIES PERSPECTIVE

2022 I.N.S.E.C.T. SUMMERCAMP

@kaydee8888
@insect_worldings



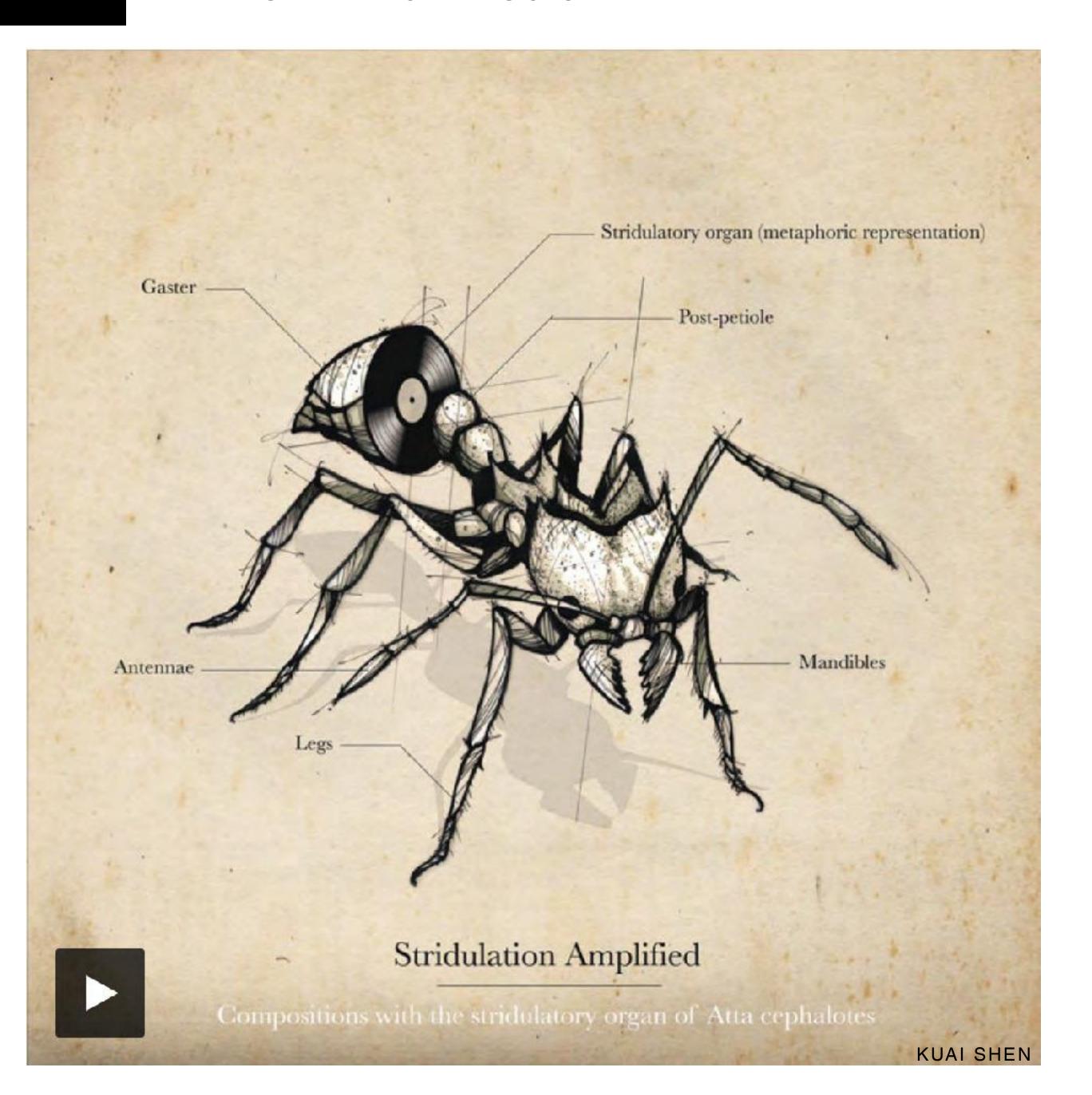


@kaydee8888 showing the interactive and tactile component of her leafhopper species profile 🥮. The sound is a recorded leafhopper vibration that Roland provided.

@insect worldings



VIBRA ONLINE SYMPOSIUM





WHAT HAPPENS WHEN
BIOTREMOLOGY,
INCLUSIVE
INFORMATION
PRACTICES, AND
RESEARCH THROUGH ART
AND DESIGN MEET?

I.N.S.E.C.T. COMMUNITY





VIBRA RESEARCH NETWORK

2023 I.N.S.E.C.T. SUMMERCAMP

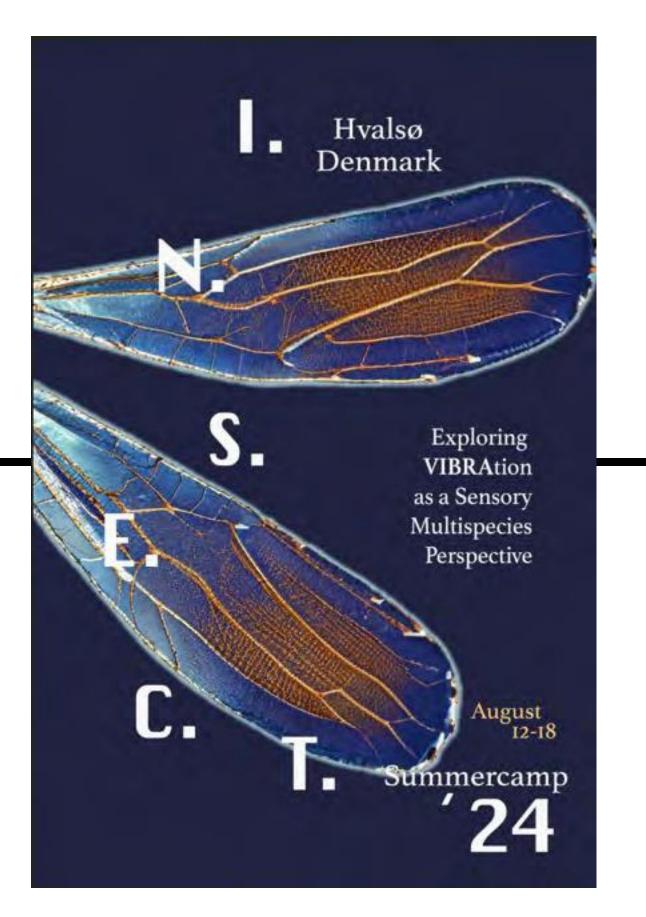




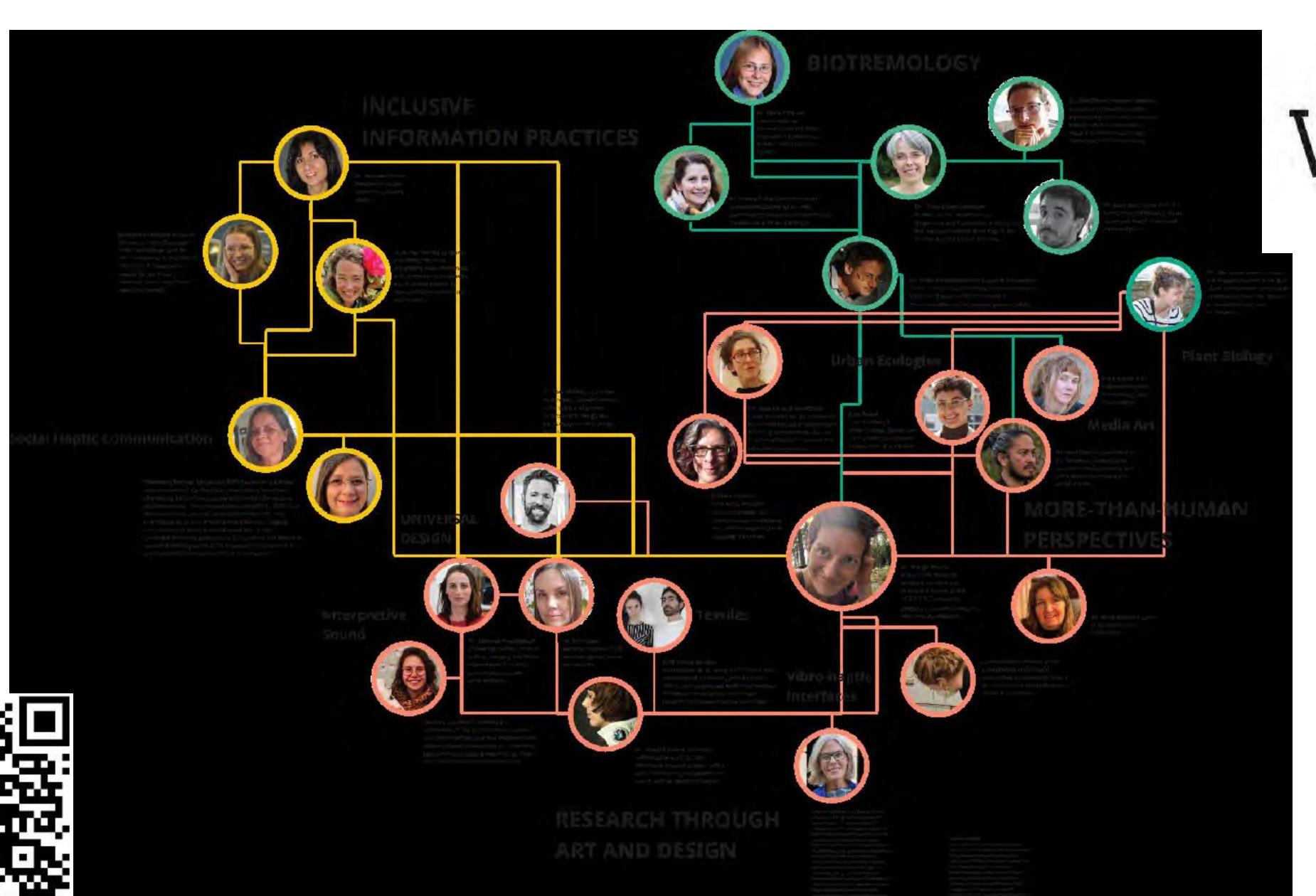
PART 2

PART 1

2022 I.N.S.E.C.T. SUMMERCAMP



2024 I.N.S.E.C.T. SUMMERCAMP





Day 1

5th August 16:00 - 18:00 CEST

MORE-THAN-HUMAN

PERSPECTIVES

Dr. Lotte Nystrup Land

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agro-ecology

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How are multispecies perspectives

integrated in practices usually not

This first day of the online festival is setting

the network and its activities, providing an

integrated in practices usually not working

with multispecies, e.g. design, architecture,

urban development and more.

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5 DAY PROGRAM FOR THE VIBRA RESEARCH NETWORK AND THE I.N.S.E.C.T. COMMUNITY



Day2

6th August 16:00 - 18:00 CEST

BIOTREMOLOGY

Dr. Yaine Coural

communication in insect

Ime source interactions

accounts and chambred

Introduction to Biotremology

The second day focuses on Biotremology, the study of insect vibration communication, it offers an overview of plant bioacoustics and insect vibration mechanisms, providing basic knowledge and audible examples that inspire future conceptual and practical work within the VIBRA Research Network.

- 1. Overview of Insect vibration mechanisms (Meta)
- Vibrational communication in bees and beetles (Taina)

Dr. Mets Virant-Deberbet

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Plant Biology

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3. Vibration in plants/plant bloacoustics (Sole)

Day 3

INCLUSIVE

PRACTICES

INFORMATION

Vibro-haptic Interfaces

7th August 16:00 - 18:00 CEST

Haptic Communication for and with people with deaf-blindness

The third day focuses on inclusive information. practices, i.e. vibrational communication, social haptic communication, and an overview of cutting edge haptic assistive technologies.

Mildebjorg Karlsen Bjørge at d Kathritte Goborg Relider, Lot

professional sign language interpreters. Have been interpreting

to rident and people with deathlindness, since midflate nineties

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wersion, "Raptic Communication" was published in 2015. Hapti-

Day 4

8th August 16:00 - 18:00 CEST

Soft Interfaces and Interpretive Sound

The fourth day includes an introduction into how to record insect vibration with a DIY setup and provides examples how data can: be expressed artistically via media art and smart textiles.

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9th August 16:00 - 18:00 CEST

On the last day we integrate the knowledge and experiences of the past days and prainstorm about the networks potential, and nur courrece next steps regarding him. 18. network meetings, focus groups, and other

Interpretive

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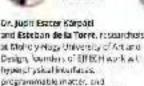
BIOTREMOLOGY

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THROUGH ART AND



RESEARCH DESIGN



Dr. Nasrine Ohlson Focuses on Esuca

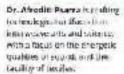
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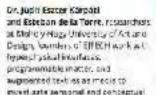
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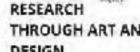








relationships between subject and





Day 1

5th August 16:00 - 18:00 CEST

How are multispecies perspectives integrated in practices usually not working with multispecies?

This first day of the online festival is setting the scene. We are introducing the purpose of the network and its activities, providing an overview of how multispecies perspectives are integrated in practices usually not working with multispecies, e.g. design, architecture, urban development and more.

MORE-THAN-HUMAN PERSPECTIVES



Dr. Lotte Nystrup Lund action researcher working

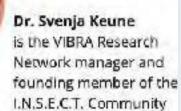
architecture, activism and

agro-ecology



Colleen Ludwig is an artist, educator, environmentalist and activist whose installations, and performances focus on engaging the senses.

ban Ecology Researcher, Perspectives at Gehl R&D



DAY 1: HOW ARE MULTISPECIES PERSPECTIVES INTEGRATED IN PRACTICES USUALLY NOT WORKING WITH **MULTISPECIES?**





Day2

6th August 16:00 - 18:00 CEST

Introduction to Biotremology

The second day focuses on Biotremology, the study of insect vibration communication. It offers an overview of plant bioacoustics and insect vibration mechanisms, providing basic knowledge and audible examples that inspire future conceptual and practical work within the VIBRA Research Network.

- 1. Overview of Insect vibration mechanisms (Meta)
- 2. Vibrational communication in bees and beetles (Taina)
- 3. Vibration in plants/plant bioacoustics (Sole)

BIOTREMOLOGY





Dr. Taina Conrad concentrates on communication in insect interactions (vibrational, acoustic, and chemical signals).

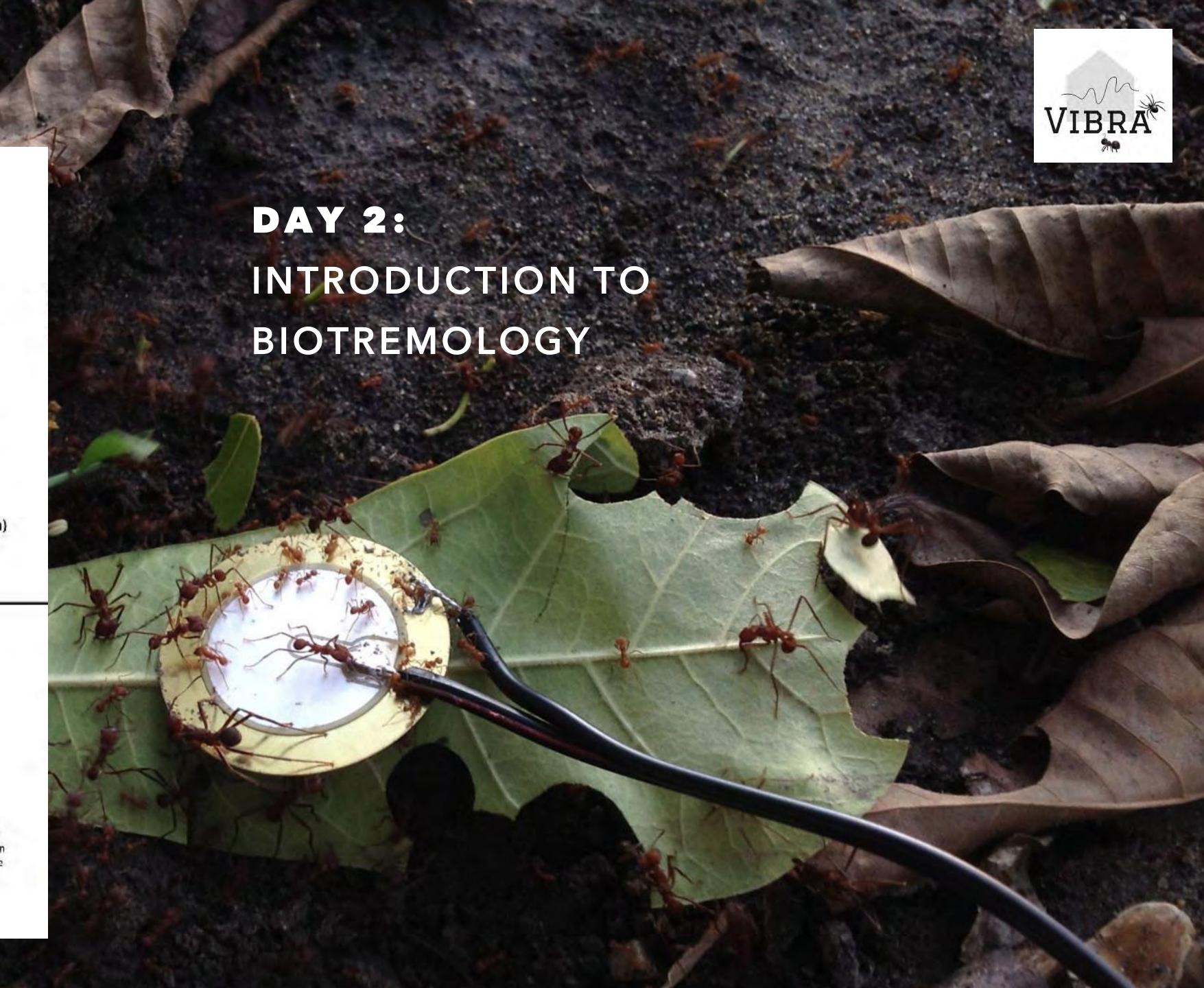
Dr. Meta Virant-Doberlet

is Head of the Department of Organisms and Ecosystems Research at the National Institute of Biology at the University of Ljubljana, Slovenia.



Dr. Mariasole Calbi interests are the patterns and drivers of plant communities' composition and structure and the response of vegetation to human disturbance.

Plant Biology



Day 3

7th August 16:00 - 18:00 CEST

Haptic Communication for and with people with deaf-blindness

The third day focuses on inclusive information practices, i.e. vibrational communication, social haptic communication, and an overview of cutting edge haptic assistive technologies.

INCLUSIVE INFORMATION PRACTICES

Vibro-haptic Interfaces





Dr. Nasrine Ohlson Focuses on issues of inclusion, accessibility, participation, and equal opportunities for all. Head of INCLUDE Centre for Inclusive Studies at the University of Borås.

Hildebjørg Karlsen Bjørge and Kathrine Goborg Rehder, both professional sign language interpreters, have been interpreting for deaf and people with deafblindness, since mid/fate nineties. They co-established Hapti-Co in 2008. Both have been teaching social haptic signals nationally and internationally. In 2015 they published the book 'Haptisk kommunikasjon' and the American version, 'Haptic Communication' was published in 2015. Hapti-Co launched an app with haptic signals in 2020: 'Haptics: pocket edition'. The app is available in English as well as in Norwegian.



VIBRA

What happens when 8th August 16:00 - 18:00 CEST Biotremology, Inclusive Information Practices, and Research through The fourth day includes an introduction into Artovandor Designor meet?

setup and provides examples how data can

be expressed artistically via media art and

Media Art

smart textiles.

Interpretive Sound



Dr. Afroditi Psarra is crafting technological artifacts that interweave arts and science, with a focus on the energetic qualities of sound, and the tactility of textiles.



Dr. Kuai Shen is specialised on ant behaviour, repurposing computer media, sensors, and electronics to represent the world of ants.



Soft Interfaces

Dr. Judit Eszter Kárpáti
and Esteban de la Torre, researchers
at Moholy-Nagy University of Art and
Design, founders of EJTECH work with
hyperphysical interfaces,
programmable matter, and
augmented textiles as media to
investigate sensorial and conceptual
relationships between subject and
object.

RESEARCH THROUGH ART AND DESIGN

BIOTREMOLOGY

Dr. Roland Mühlethaler is expert in entomology (insect sciences) i.e. vibrational communication in insects and spiders with experience in communication and engaging a general public.







Day 5

Internal session!

Open to VIBRA and I.N.S.E.C.T.

members only. Contact the

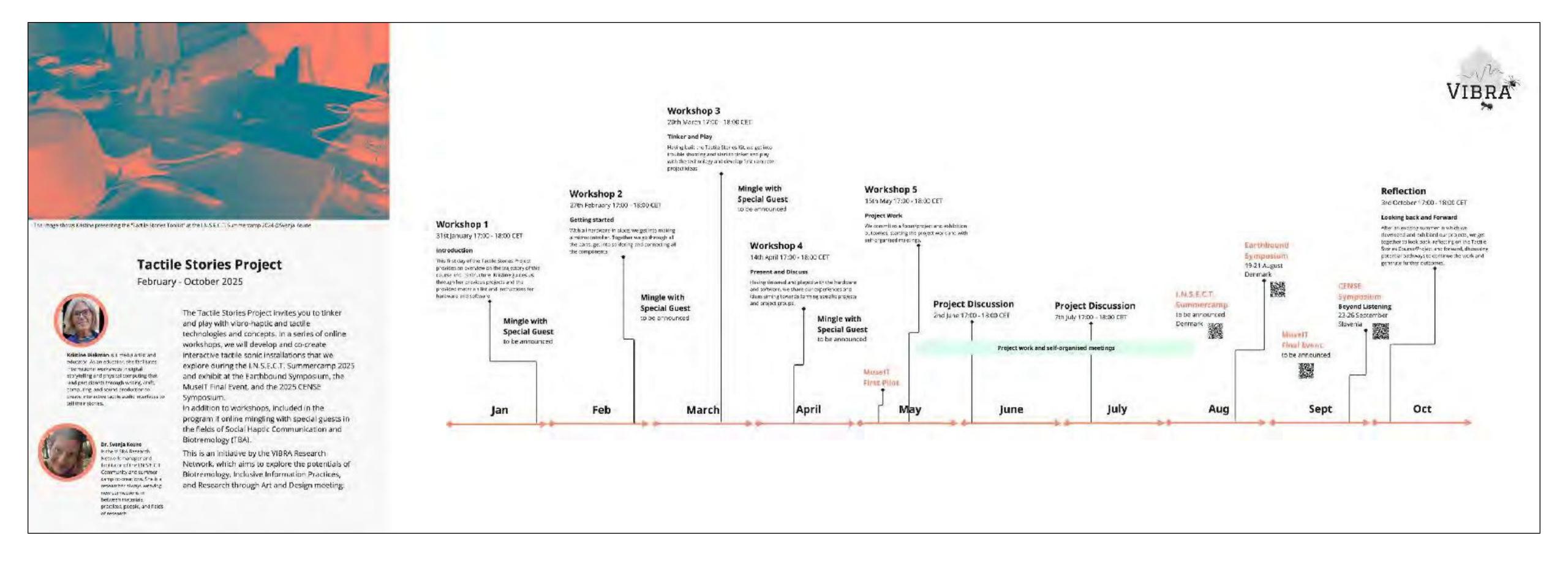
network manager if you want to
join, svenja.keune@hb.se

9th August 16:00 - 18:00 CEST

On the last day we integrate the knowledge and experiences of the past days and brainstorm about the networks potential, and our concrete next steps regarding funding, network meetings, focus groups, and other initiatives.

DAY 5: WHAT IF WE COULD GET FUNDING FOR US ALTOGETHER?

9 MONTH PROGRAM TO ENGAGE WITH TACTILE TECHNOLOGIES ACROSS DISCIPLINES AND COMMUNITIES



Museli

Multisensory, User-centred, Shared cultural Experiences through Interactive Technologies

2022 - 2025



WWW.MUSE-IT.EU





























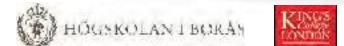
Funded by the European Union under the grant agreement No 101061441. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.

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STAKEHOLDERS - ART AND DISABILITY

SHAREMUSIC & PERFORMING ARTS (SHMU)





STAKEHOLDERS -**CULTURAL INSTITUTIONS**

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DATA ARCHIVING AND NETWORK SERVICES

ROYAL NETHERLANDS ACADEMY OF ARTS AND SCIENCES/ DATA ARCHIVING AND NETWORKED SERVICES (KNAW-DANS)





CHALLENGES - The focus in MuseIT is on Cultural Institutions and People with Disability



ACCESSIBILITY OF CULTURAL ASSETS

ACCESSIBLE TO ALL

by development of multisensory representations and alternative expressions to enable engagement by the public regardless of functional or sensory impairments

CONTENTS BY ALL

achieved through development of **remote inclusive co-creation services** for multi-modal born-digital cultural assets, and cultural engagements by a broader public regardless of variations in abilities and perceptual modalities

BROADER ENGAGEMENT WITH CULTURAL ASSETS AND CULTURAL CO-CREATION

INTEGRATION OF MULTILAYERED CONTENTS

PRESERVATION OF
MULTISENSORY CONTENTS

METHODOLOGIES FOR PRESERVATION AND SAFEGUARDING OF CULTURAL HERITAGE WITH INCLUSION AT ITS CORE

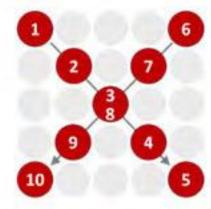
achieved through formal specification and novel **methodologies** for multisensory, layered repository towards (long-term) preservation of cultural assets

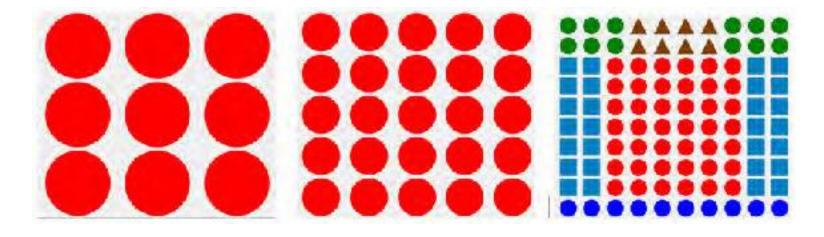


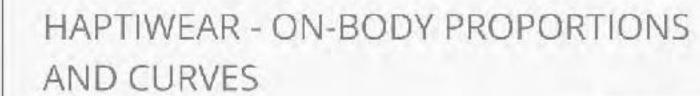
WP 5 - DEVELOPMENT OF INCLUSIVE TECHNOLOGIES







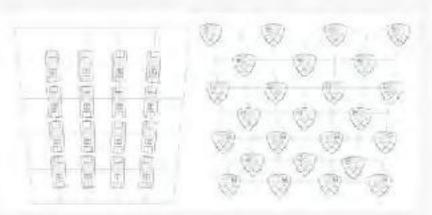




Visualising design via human body sizing, form and curves - to inform layout, density and how best to optimise panels

average human across back [seam to seam]: female = [12"] 28cm Male = [14"] 38cm 4x4 modules
with spacing of:
4cm = 7-10 modules

5cm = 5-8 modules 2.5cm = 11-15 modules 2cm = 14-19cm



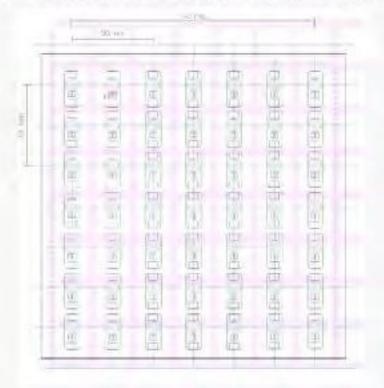


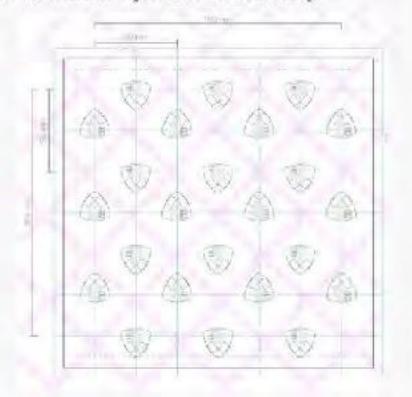
board shape informs both density of the array as well as ability to fold around the body. Different shapes and layouts affect how easily the boards will connect with complex surfaces, illustrated below

Below [left] shows the maximum density and best orientation for current boards [providing there are connectors this short]. This example rolls around the trunk of the body, but needs design provisions for how it may encounter problems at places like: shoulders, shoulder blades, waist convex, where body curves are tight and vary across bodies.

Below [right] shows an alternative shape which is designed for wearables. The PCB footprint allows for curvature in more directions, to fit closer to the body.

PINK INDICATES FOLDS AND POTENTIAL TO CONFORM TO THE BODY [OR OTHER SURFACES];









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