URBAN WILDS

ENVISIONING THE MULTISPECIES CITY

ATELIER HUANG FALL 2023

Overcoming the anthropocentric bias ingrained in the way we sense and view the city is an essential precondition for designing urban futures that care for all life forms. Given that cities are increasingly being represented and designed through data, how can designers employ open-source visualization tools to radically remap the built environment from a multispecies perspective? What does it mean to intelligently mediate human-non-human habitation through design?

Urban Wilds, Envisioning the Multispecies City explores these questions within the context of Greater Lausanne. The studio adopts a critical approach to multispecies design, beginning with the analysis of Lausanne's ecological network proposed to restore habitat for fauna under threat of extinction. Students will decode the ecological entanglements between these animals and the built environment (tensions and opportunities) along habitat corridors and will formulate clear design problems and sites accordingly. The semester will be devoted to developing a network of interventions that integrate wildlife and human habitat at the architectural scale.

The course will consist of a combination of lectures, discussions, site visits, and design exercises. Students will engage in independent research, group work, and design projects to deepen their understanding of urban ecology. Guest lectures by experts in the field will provide students with unique insights into real-world challenges and opportunities related to wildlife coexistence in urban settings.

The design process will emphasize research, analysis, and conceptual development through the use of mapping and representational tools devised for the studio to enhance the presentation and communication of design proposals. This will incorporate innovative visual representation using animation, geodata, and on-site investigations combined through multi-layered drawings.

The results from this studio are planned to be shared with the city of Lausanne to provide insight into innovative ways to design for multispecies, as well as be part of a future exhibition on multispecies architecture & urban design.

The studio will use advanced digital tools, such as software, scripts and plugins for mapping and geodata analysis (Rhino & Grasshopper, QGIS), as well as offer the possibility of using AI tools and varied techniques of digital representation (such as Midjourney, Stable Diffusion, Blender, etc.)

No prior programming or software knowledge is required, however, there should be curiosity and desire to learn.

Cover Image
Antoine Lafay, 2023

Mychael Barratt
London Bestiary, 2020

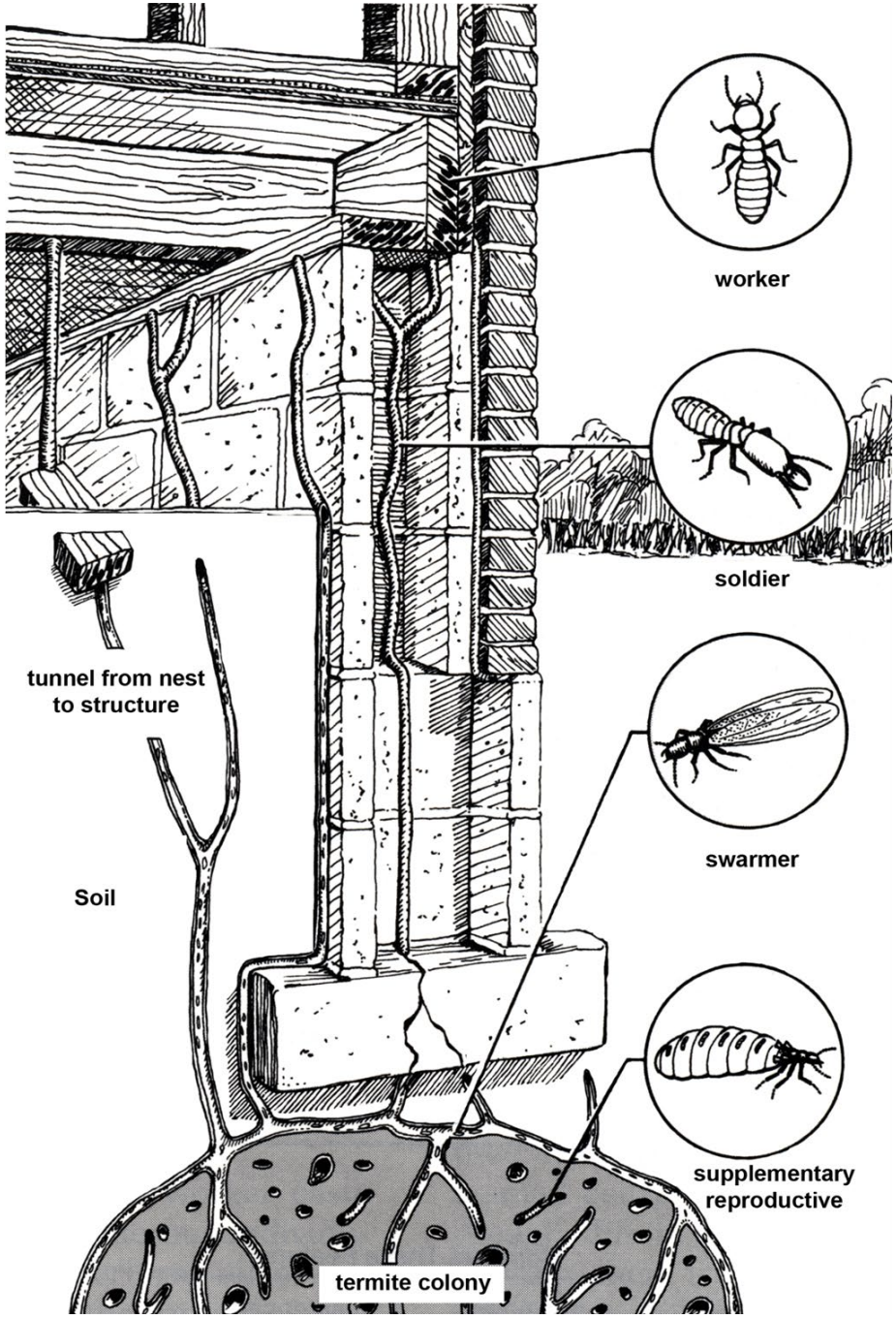
Yosuke Kashiwakura
The Art of Recycling, 2020

Arshdeep Singh
Pipe Owls, 2018

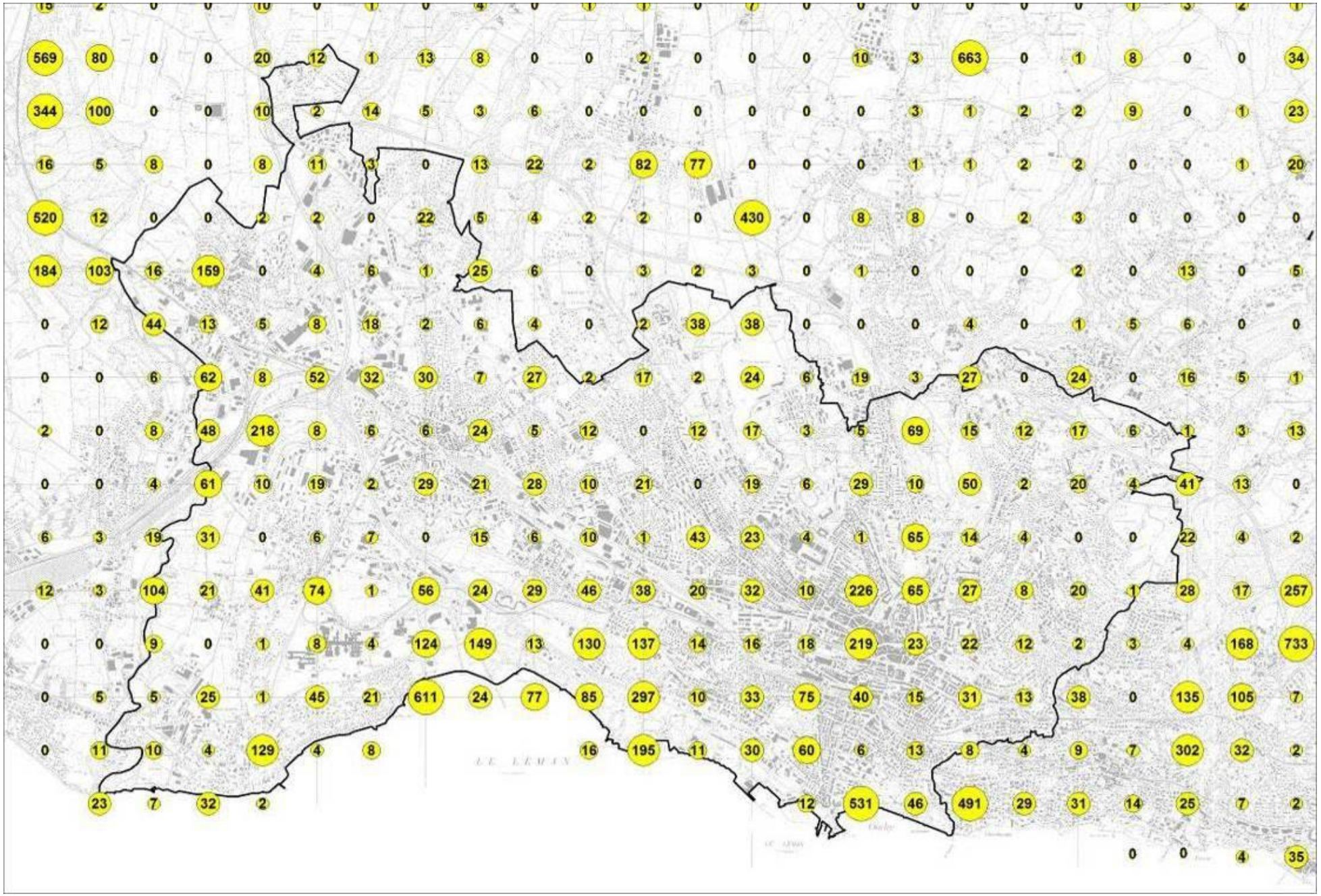
Antoine Lafay
Renard, 2023

Antoine Lafay
Petit blaireautin, 2023

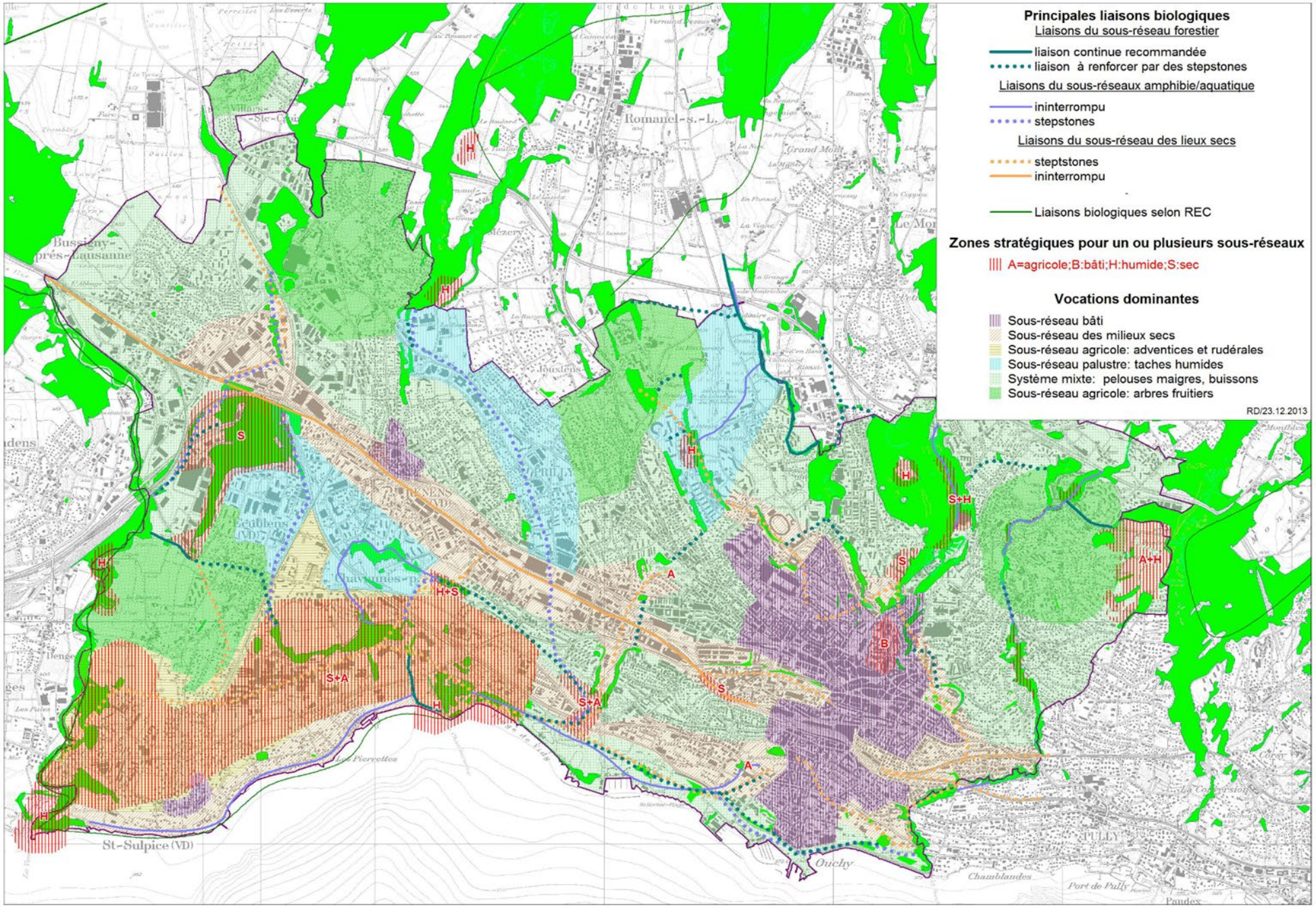
Pete Stuart
Rivington Pigeon Tower, 2022



Gary W. Bennett
Termite Control, 2017

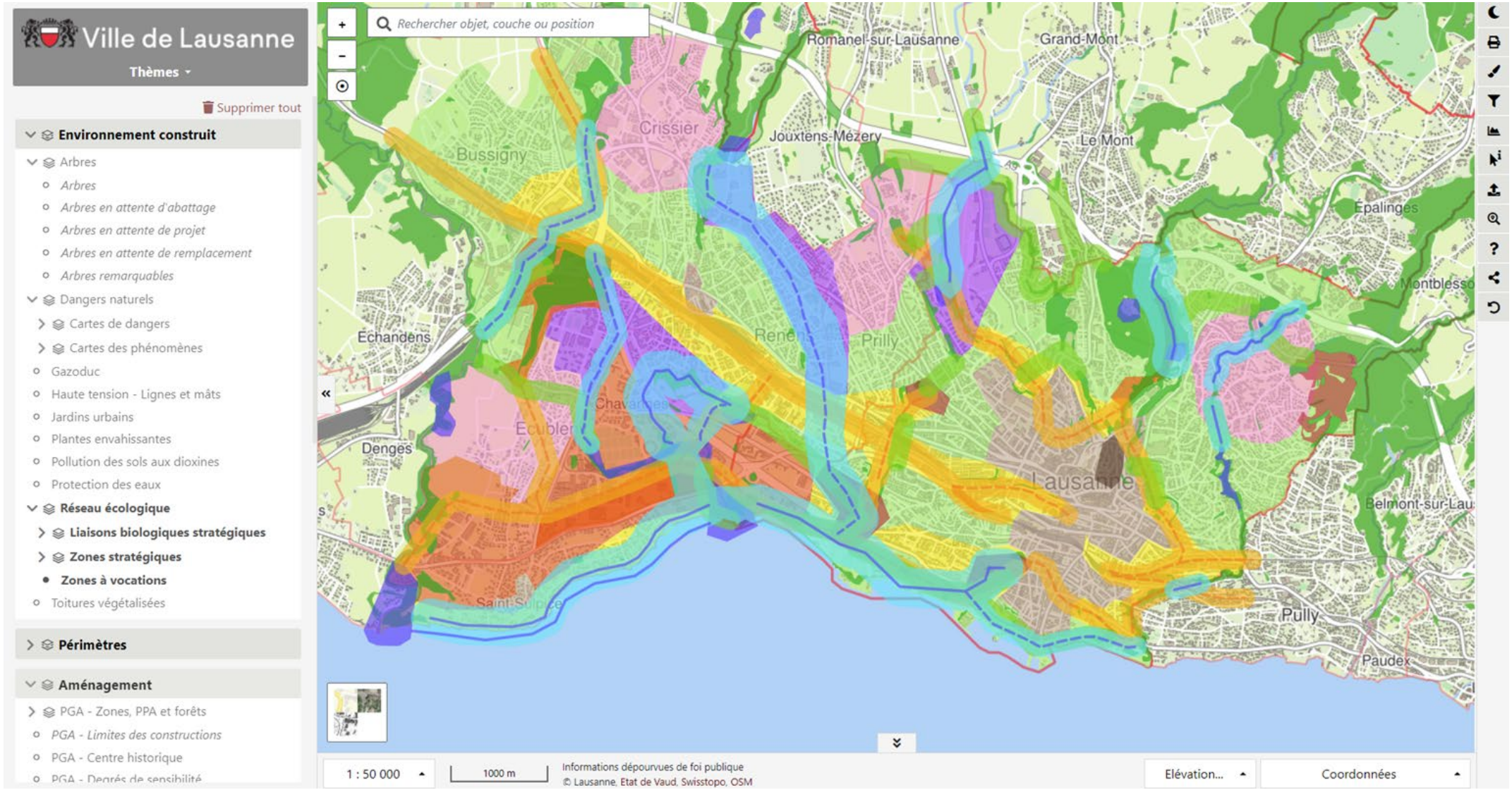


Biodiversity Sampling in the Greater Lausanne Region
Réseau vert de Lausanne et de l'Ouest Lausannois, 2014



Biological Links in the Greater Lausanne Region

Réseau vert de Lausanne et de l'Ouest Lausannois, 2014



Guichet Cartographique de la Ville de Lausanne
Réseau écologique, 2023

Sarah Gunawan
Synanthropic Suburbia, 2017

Ines Dantas
Architectural Engagements with Urban Trees, 2023

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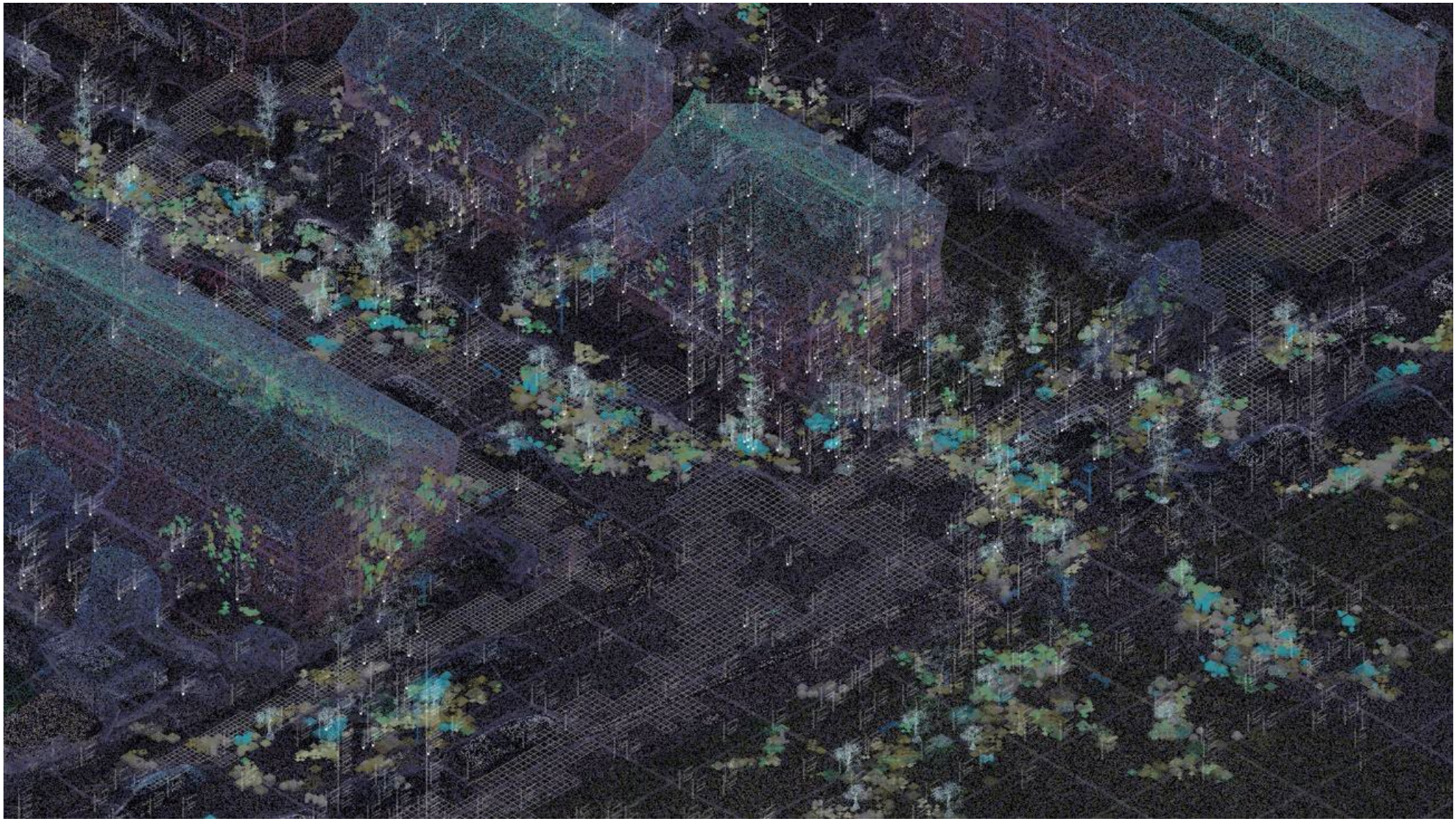
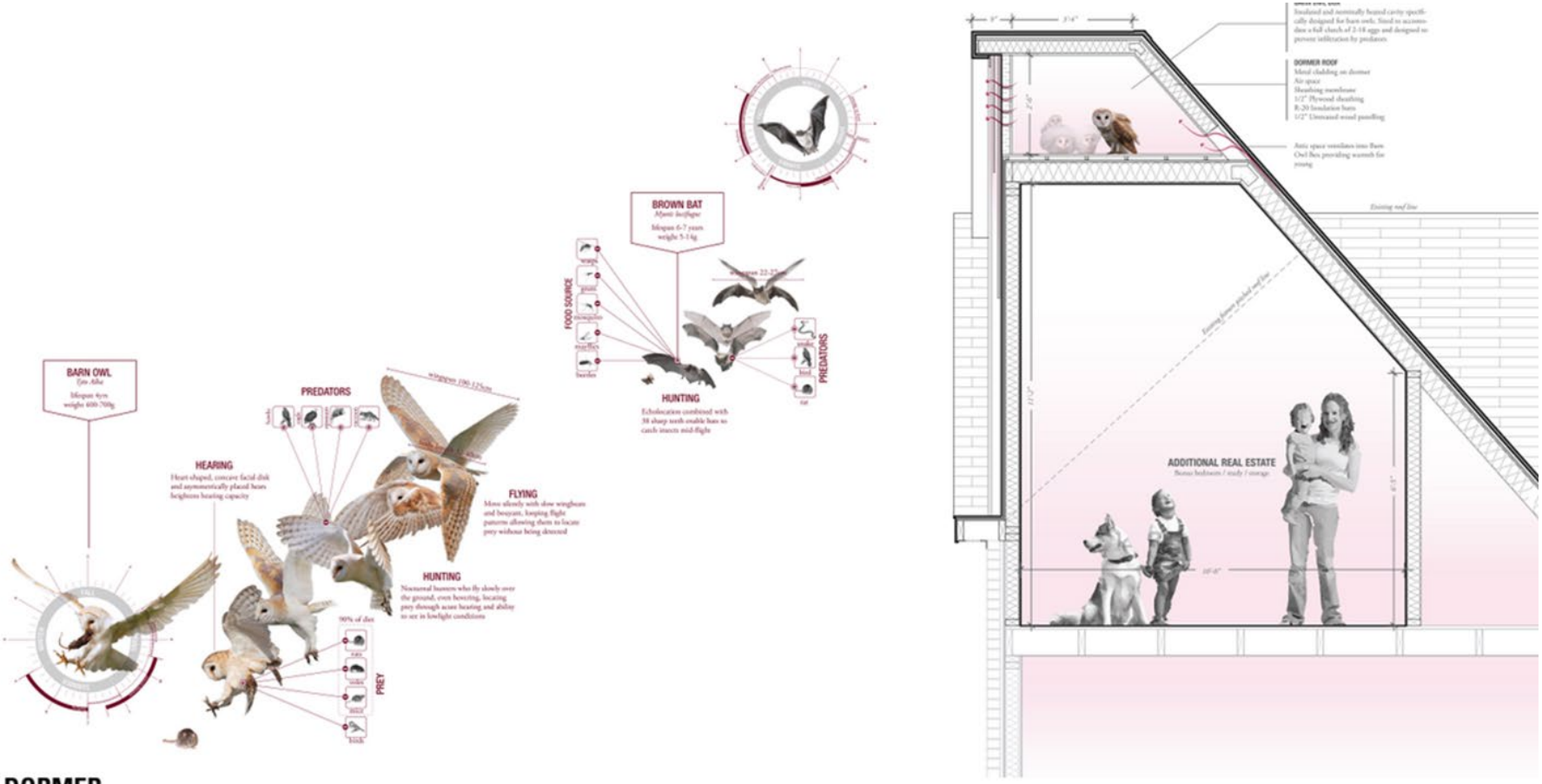
Architectural Engagements with Urban Trees, 2023

Sheng-Yang Huang et al.
Deep Tuning of Urban Ecology, 2021

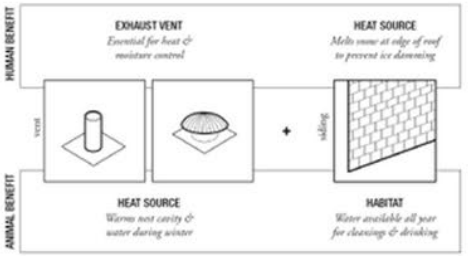


Sheng-Yang Huang et al.
Deep Tuning of Urban Ecology, 2021



HABITAT DORMER

Prosthetic habitat for Barn owls & Brown bats



HYBRID BUILDING COMPONENTS

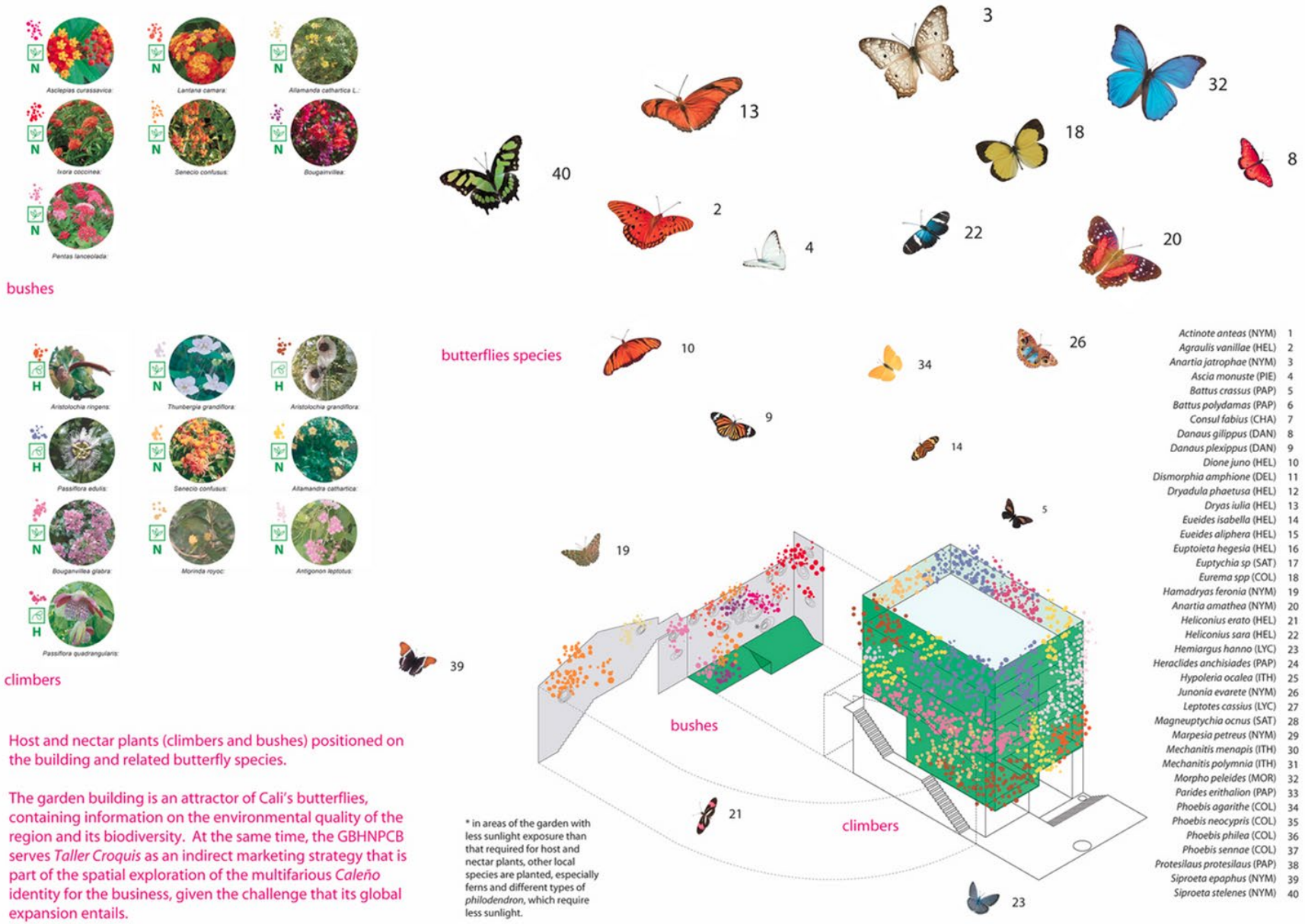
AXONOMETRIC / *Winter*

FULL SCALE PROTOTYPE / *Bat wall cladding*

Sarah Gunawan

Synanthropic Suburbia, 2017

Sarah Wigglesworth Architects
Mellor Primary School, 2017



Host and nectar plants (climbers and bushes) positioned on the building and related butterfly species.

The garden building is an attractor of Cali's butterflies, containing information on the environmental quality of the region and its biodiversity. At the same time, the GBHNPCB serves *Taller Croquis* as an indirect marketing strategy that is part of the spatial exploration of the multifarious *Caleño* identity for the business, given the challenge that its global expansion entails.

Husos Arquitectos

Bioclimatic Prototype of a Host and Nectar Garden Building , 2012

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Bioclimatic Prototype of a Host and Nectar Garden Building , 2012

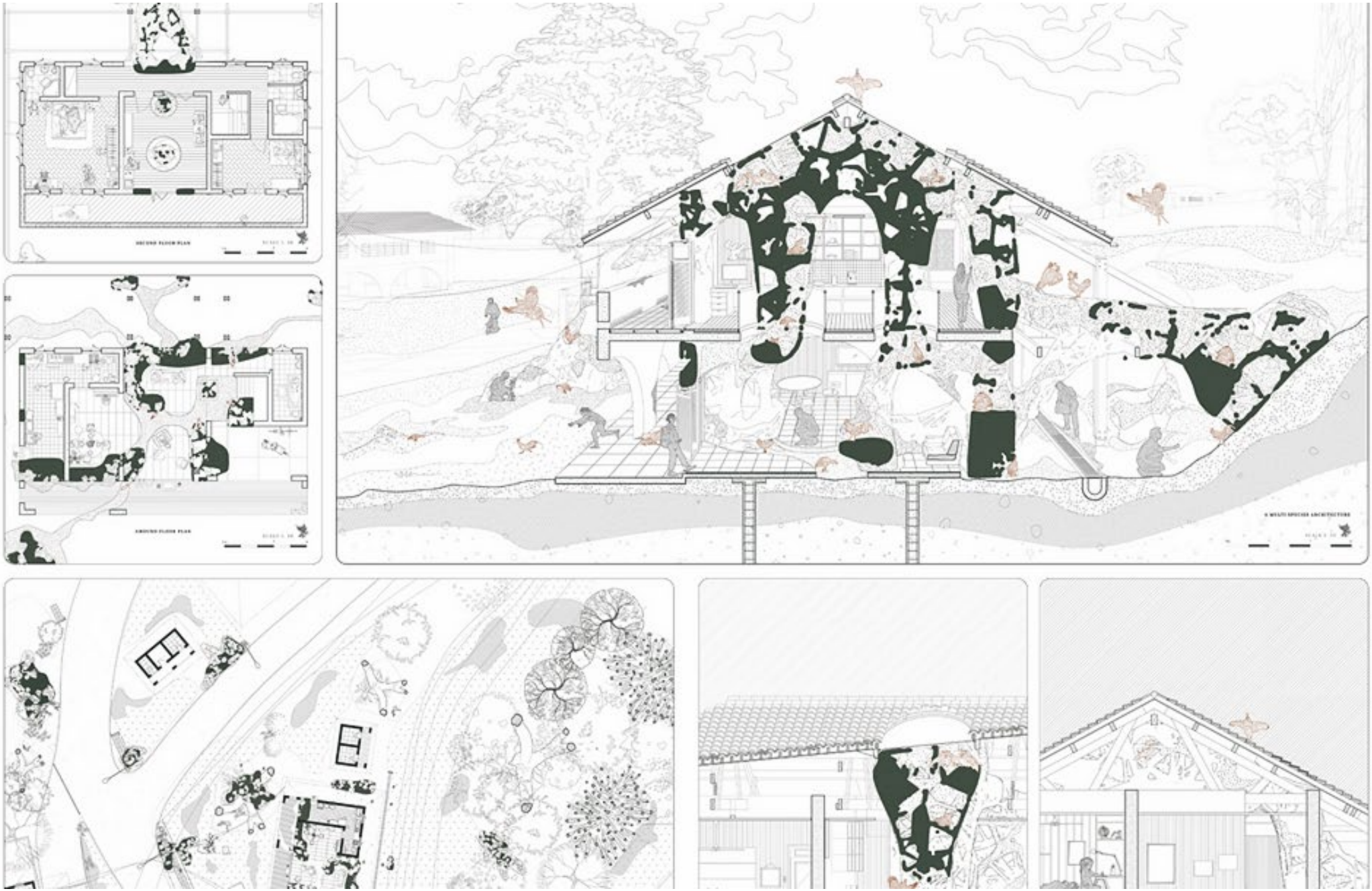
Animali Domestici
Hardware Stories : the Floor, 2022

Gitta Gschwendtner
Animal Wall, 2009

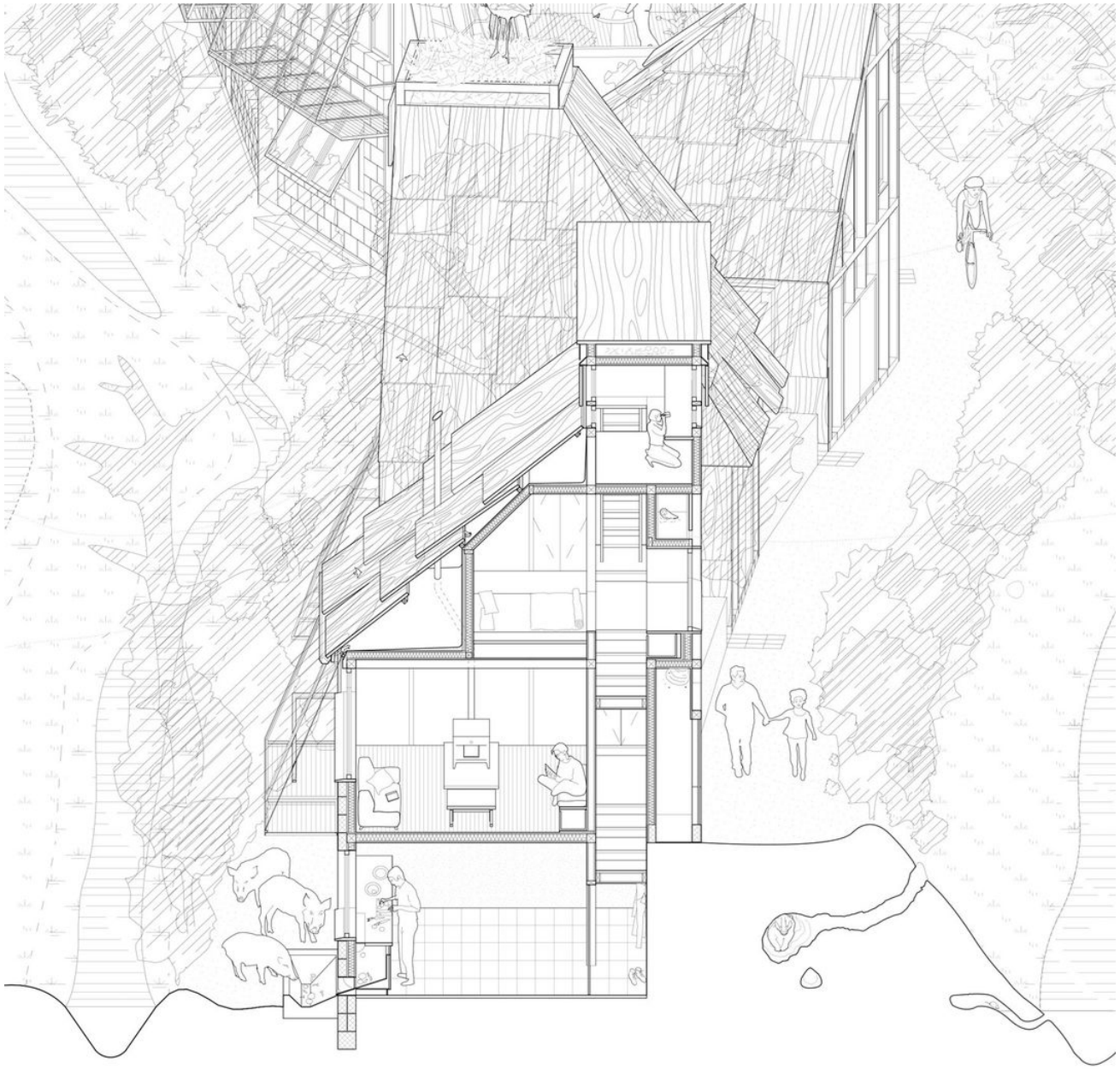
Oscar Niemeyer
The Dovecote, 1961

Studio Ossidiana
Variations on a Birdcage, 2021

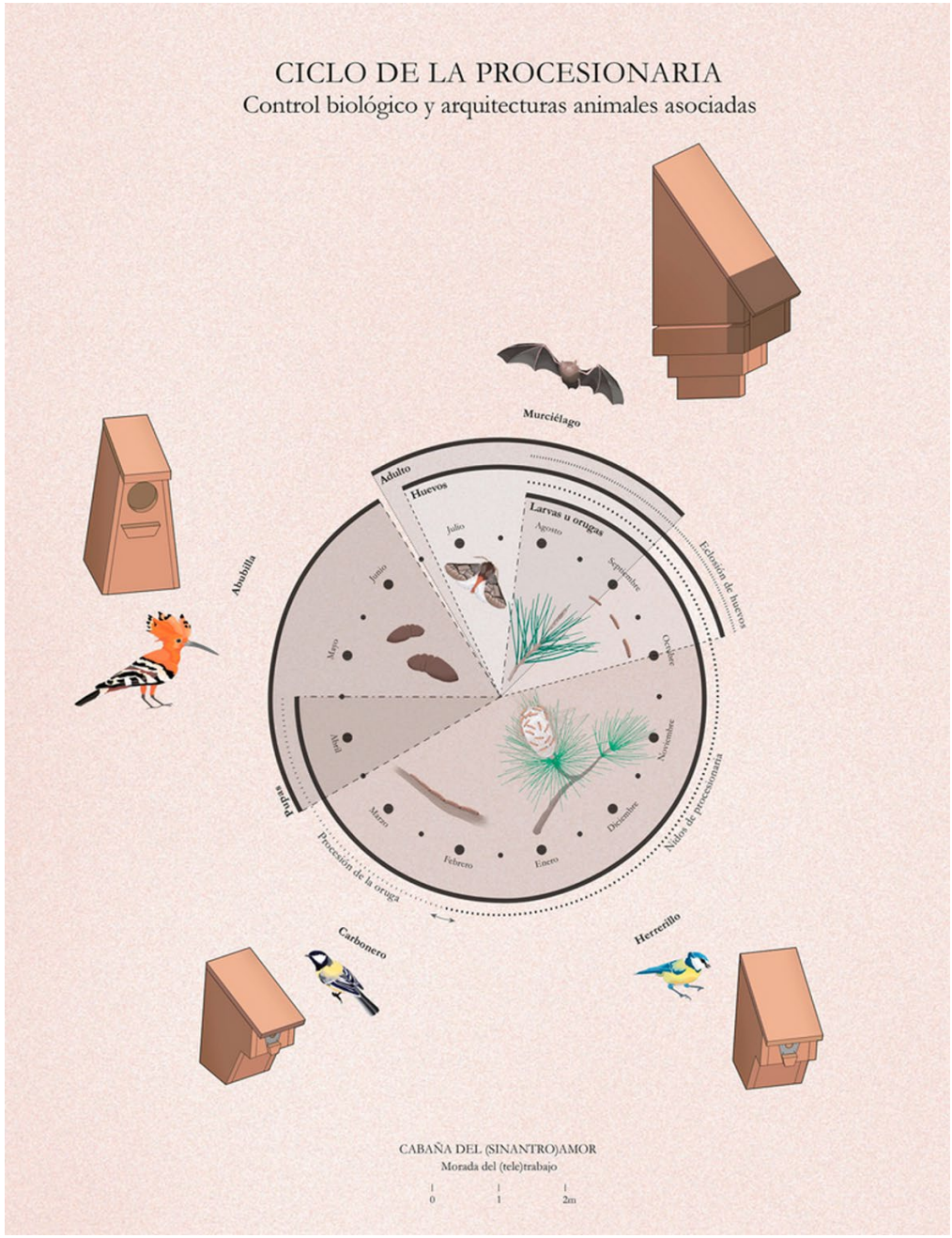
Feral Partnerships
Still from the film "Satoyama" by Masumi Mizunuma, Jeremy Evans, Satako Nakahara, 2004



Tan Xuan
An Approach to Multispecies Architecture, 2022



Feral Partnerships
A house for ornithologists, 2019



Husos Arquitectos
Multispecies Refuge, 2015

Husos Arquitectos
Multispecies Refuge, 2015

Important Dates
Fall 2023

Studio Introduction
Sep 19

Phase I: Wild Guilds (3 weeks)
Sep 19-Oct 2

Phase II: Multispecies Devices (3 weeks)
Oct 3-Oct 30

Phase III: Design Simulation (3 weeks)
Oct 31-Nov 20

Phase IV: Representation (3 weeks)
Nov 21-Dec 18

Final Review
Dec 18

The Studio theme spans the entire academic year of 2023/24. Accordingly, there will be continuity between the fall and spring semester, but each semester can be followed independently.

Dates are subject to change.

Team
Media x Design Laboratory
Prof. Jeffrey Huang
Marcela Delgado, Alexandre Sadeghi, Ga-In Sim, Mathias Bernhard, Christina Doumpioti, Christoph Holz, Mikhael Johanes, Frederick Kim, Gianna Ledermann

Partners
City of Lausanne