

Faculty of Design

2020

Synergetic Landscapes Unit: The Multispecies Biodigital Community Codesign

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The background features five vertical lines in cyan, blue, purple, and magenta. Each line is decorated with yellow dots and small yellow arrows pointing in various directions. The lines are interconnected by thin, curved lines, creating a complex, web-like structure. The overall aesthetic is technical and abstract.

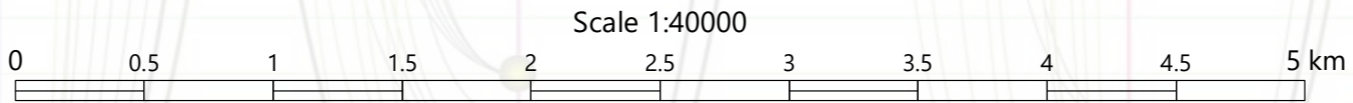
Synergetic Landscapes Unit: The Multispecies Biodigital Community Codesign

Marie Davidová





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Scale 1:40000

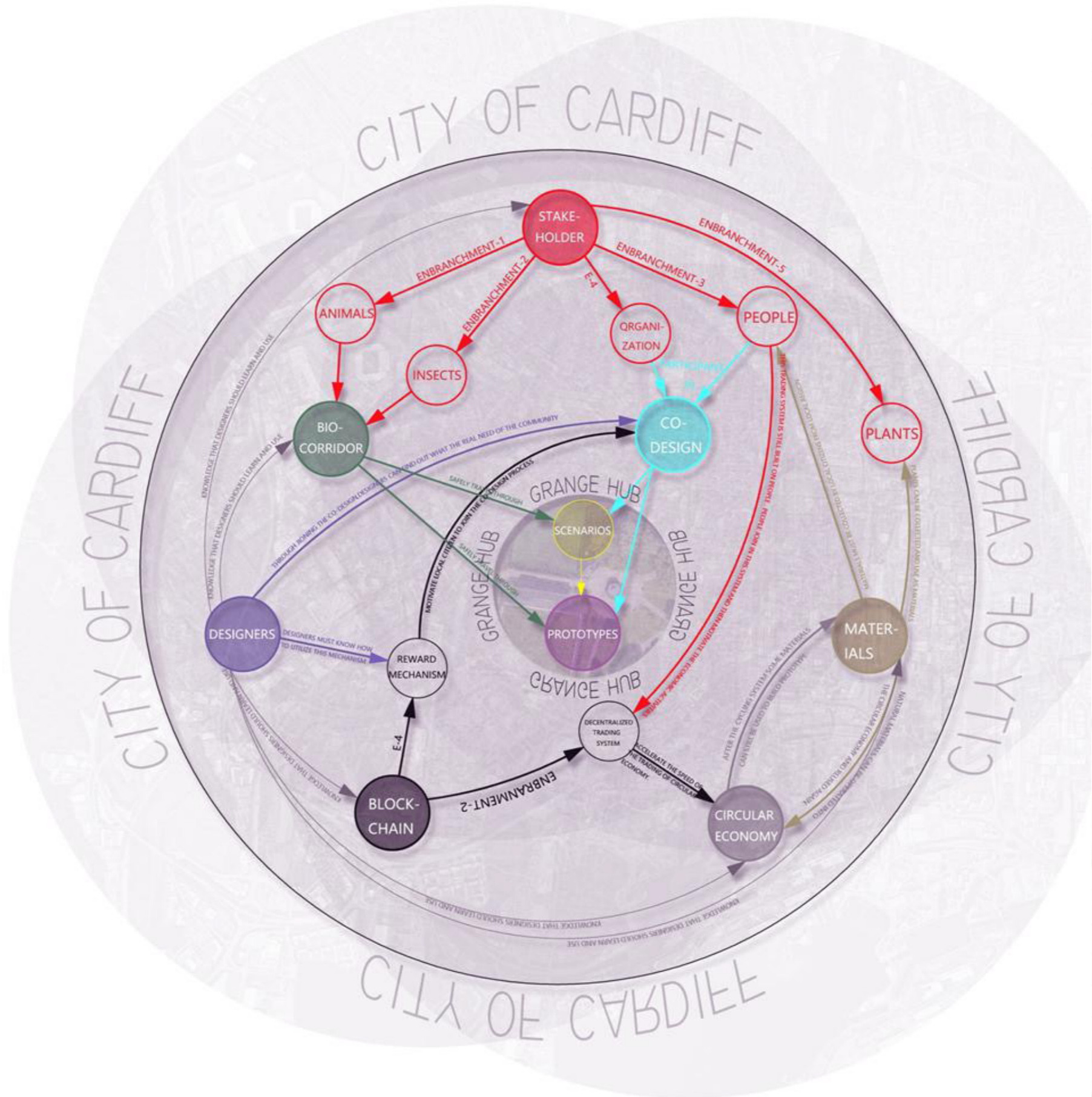
Projection: British National Grid

Sep 23, 2019 12:02
Marie Davidova
Cardiff University

The background features four vertical chains of nodes, each enclosed in a large, light-colored oval. The nodes are small yellow circles arranged in a vertical line. Arrows of various colors (blue, green, red, purple) point between the nodes, indicating a flow or relationship. The chains are interconnected by a network of thin, light-colored lines. The overall structure is symmetrical and repetitive.

responsibilities:

*overall synergy gigamapping
biocorridors
human and non-human communities
materials and fabrication techniques
circualr economy
blockchain*

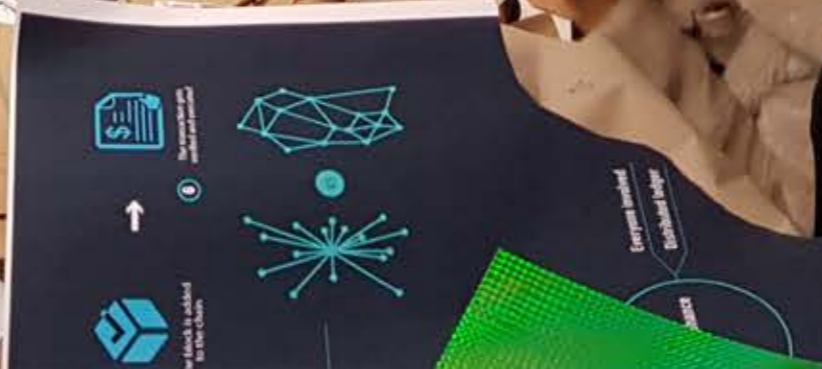


(Zhao, 2020)



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GRAFTICIAN

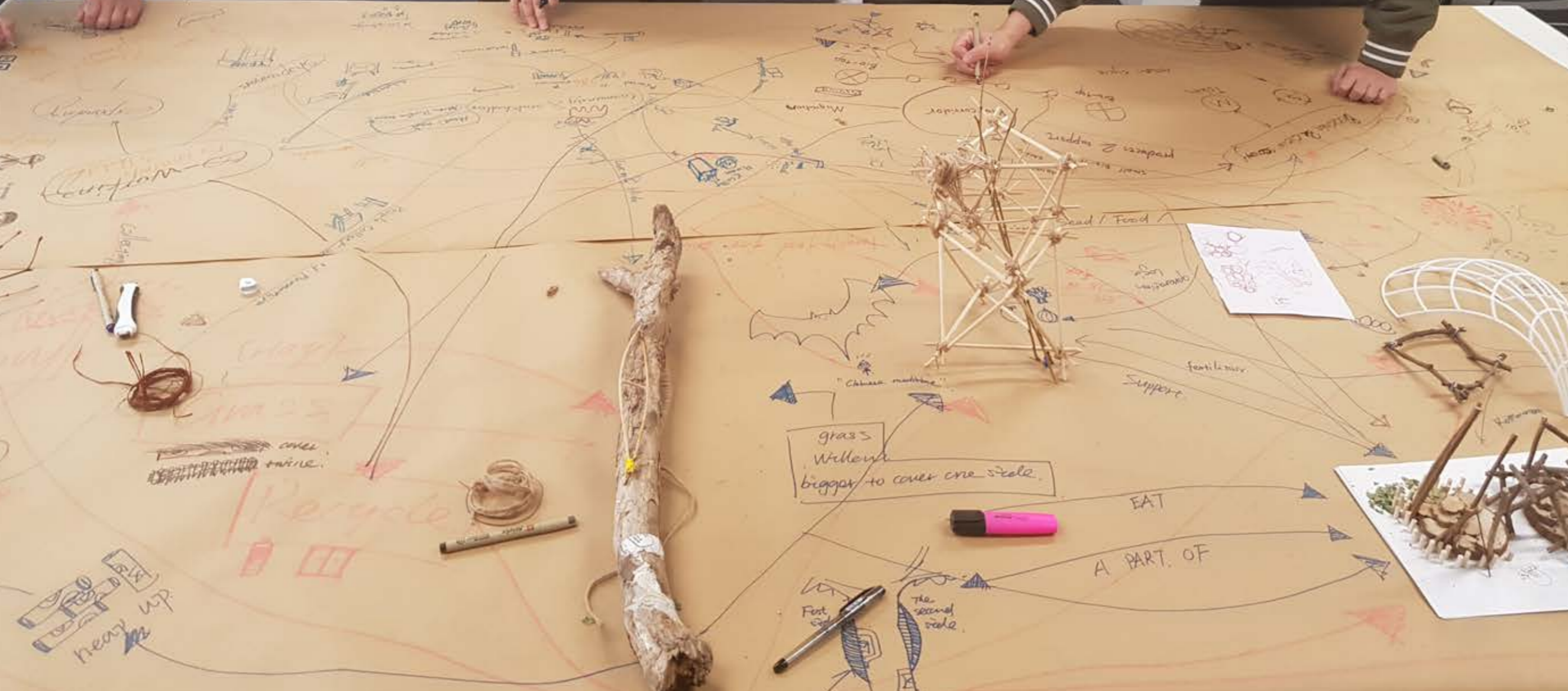
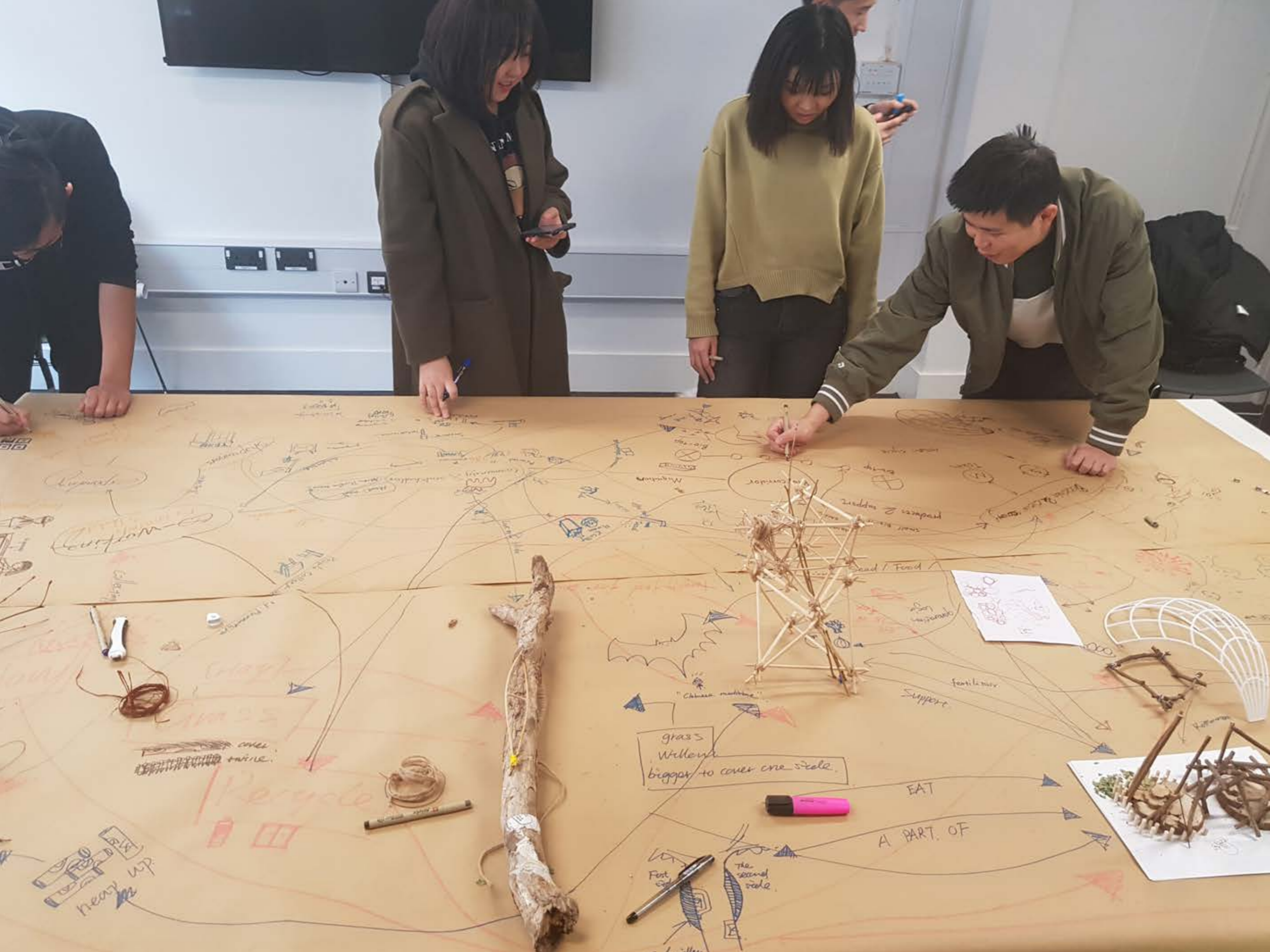
BUY ONE
+ GIFT ONE

VOLUNTEER
+ GET FREE
FOOD

TIME CREDITS

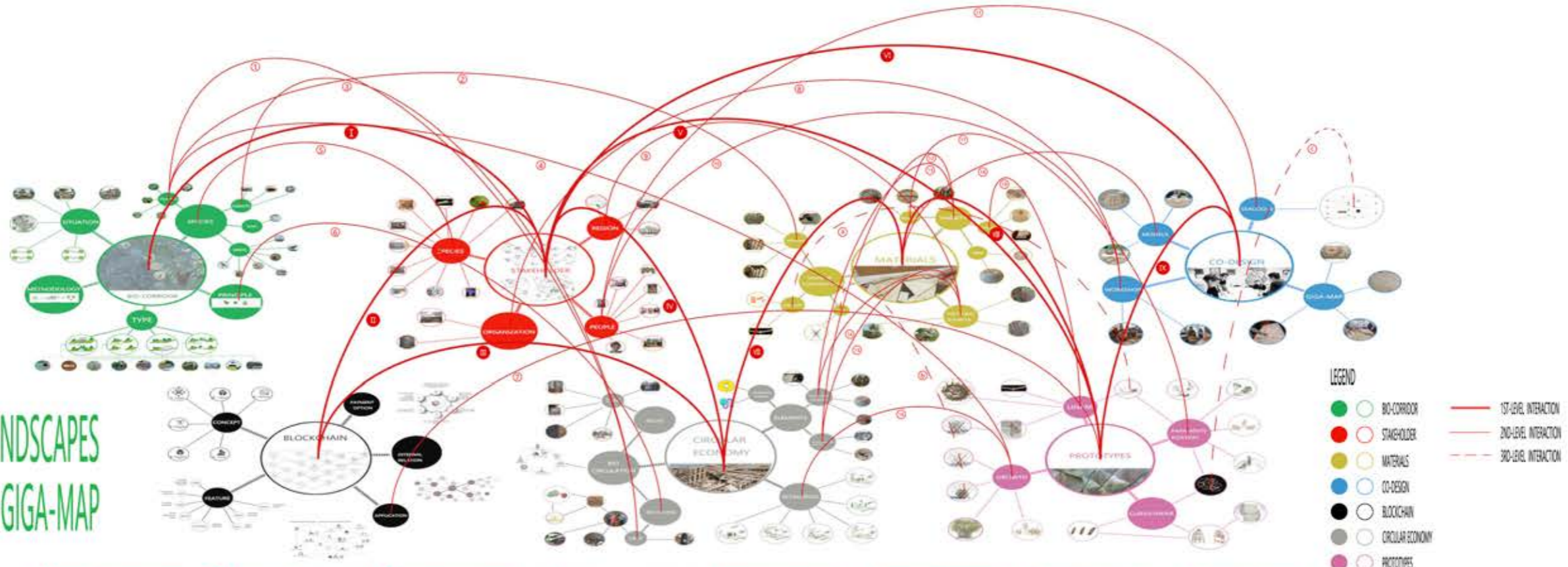
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Cafe







CARDIFF UNIVERSITY
MA AD YUANZHAO
SYNERGETIC LANDSCAPES
COLLECTIVE GIGA-MAP



LEGEND

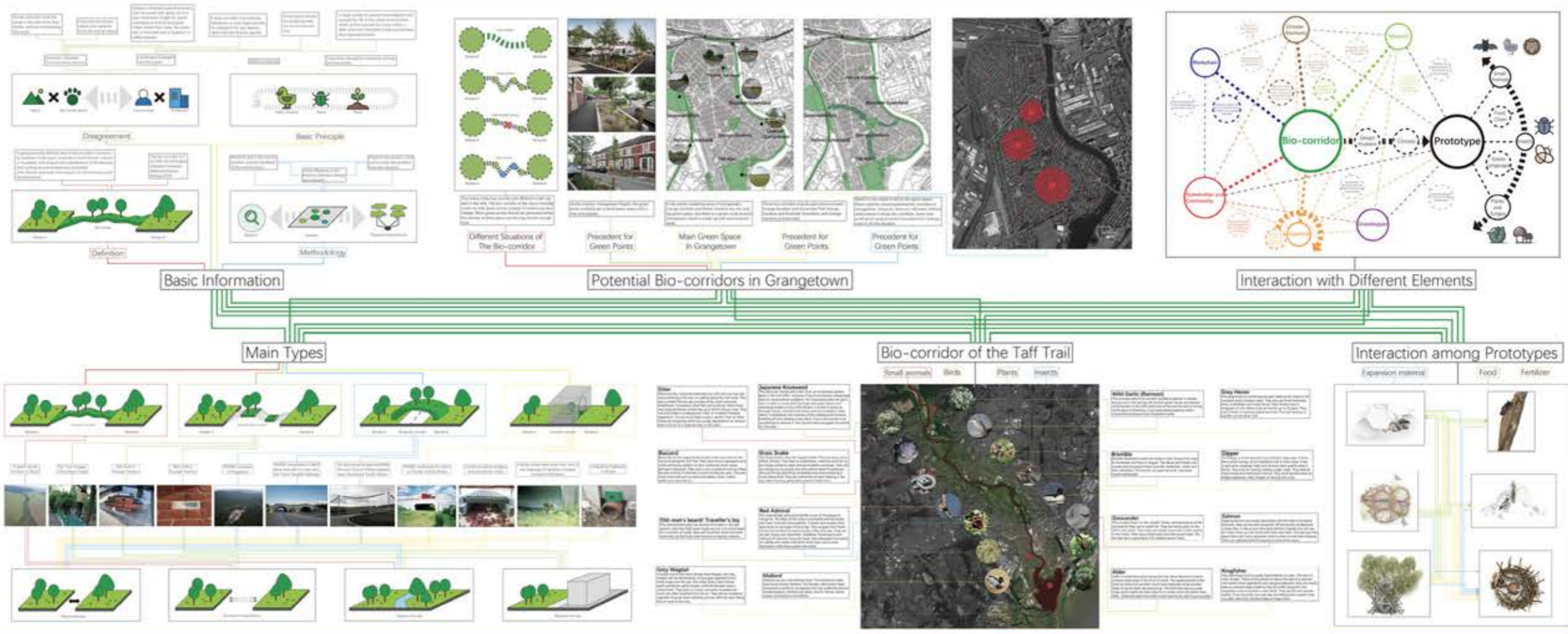
● 	BIO-CORRIDOR		1ST-LEVEL INTERACTION
● 	STAKEHOLDER		2ND-LEVEL INTERACTION
● 	MATERIALS		3RD-LEVEL INTERACTION
● 	CO-DESIGN		
● 	BLOCKCHAIN		
● 	CIRCULAR ECONOMY		
● 	PROTOTYPES		

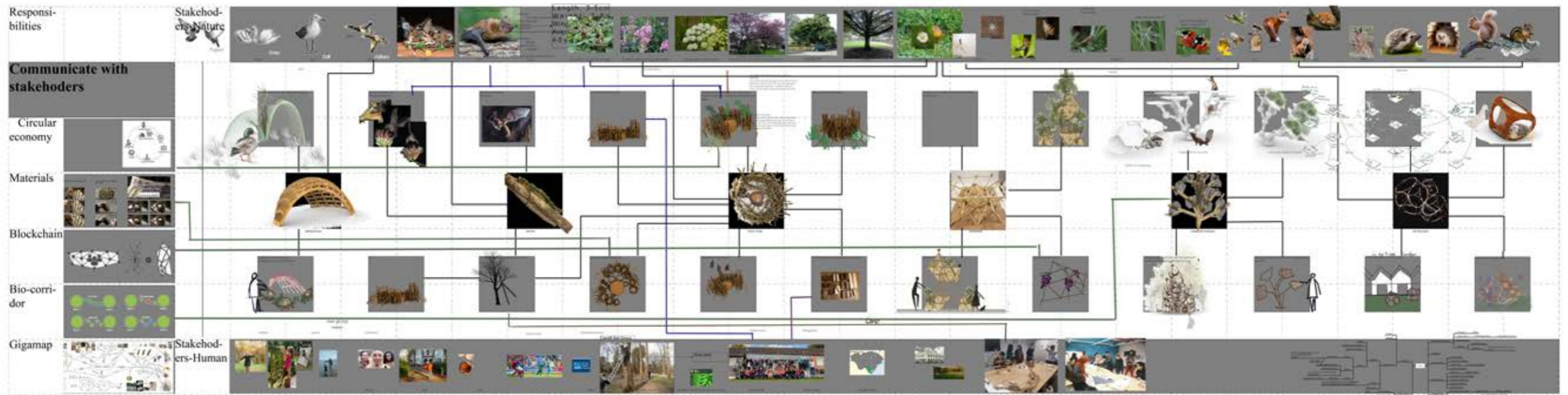
THIS GIGA MAP IS ONE STRUCTURAL FRAME WHICH IS A COLLECTION OF ALL THE OTHERS' RESPONSIBILITIES OF THEIR OWN RESEARCHES. THIS GIGA MAP CAN BE CONTINUOUSLY COMPLETE BY THE GROUP MEMBERS, AND ALSO NEW ITEMS CAN BE ADDED INTO THIS STRUCTURE AND WITH THE EXPANDING OF THE EXPRESSING SPACE THAT AS OUR PROTOTYPES DEVELOP. THIS GIGA MAP WILL DEVELOP WITH THE DEVELOPMENT OF THE PROTOTYPES.

THERE ARE SEVEN MAIN COLLECTION IN THIS GIGA-MAP WHICH ARE ILLUSTRATED AS FOLLOWS:
1. BIO-CORRIDOR,
2. STAKEHOLDER,
3. MATERIALS,
4. CO-DESIGN,
5. BLOCKCHAIN,
6. CIRCULAR ECONOMY,
7. PROTOTYPES.
THIS GIGA-MAP AIMS TO FIND AS MANY INTERACTIONS AS WE CAN TO HELP THE DESIGNERS DEEPENING THE UNDERSTANDING OF THE SYSTEM.

1. BIO-CORRIDOR IS CRUCIAL ELEMENT FOR DIFFERENT SPACES TO PASS THROUGH NATURED AREA, FORM PRESSURE, BARRIERS, OR STIMULATORS TO THE PEOPLE.
2. STAKEHOLDER IS A SOCIALLY CONSTRUCTED ENTITY WHICH ANALYZES A LOT OF PEOPLE PARTICIPATED IN THE SMALL, BLOCKCHAIN GENERATED FORMS THAT CAN BE APPLIED TO PEOPLE AND THE CONCEPT OF THE PROJECT IN THEIR OWN PERSPECTIVES AND PROVIDED IN A CONTINUOUS, FLEXIBLE AND DISTINGUISHED DIMENSION.
3. MATERIALS IS A DISTINGUISHED, TANGIBLE SYSTEM WHICH COMBINED WITH TRADITIONAL TRADING METHODS WHICH IS BUILT ON CREDIT, BLOCKCHAIN AND OTHER INFORMATION WHICH CAN PROVIDE INDEPENDENT TRADING, RECONSTRUCTION OF LEARNING, HOW THESE OPERATIONS CAN HELP BUILD BETTER INTERNATIONAL TRADING SYSTEM OF WARE AND MATERIALS DESIGN, AND THE ECONOMIC PLANNING FORM OF THE INTERNATIONAL TRADING SYSTEM CAN BECOME MORE AS THE ASSUMPTION OF THE
4. CO-DESIGN IS A COLLABORATIVE DESIGN METHOD OF DESIGNING PRODUCTS AND SERVICES BY INVOLVING ALL THE STAKEHOLDERS OF THE PROJECT. CO-DESIGNING IS A COLLABORATIVE DESIGN METHOD OF DESIGNING PRODUCTS AND SERVICES BY INVOLVING ALL THE STAKEHOLDERS OF THE PROJECT. CO-DESIGNING IS A COLLABORATIVE DESIGN METHOD OF DESIGNING PRODUCTS AND SERVICES BY INVOLVING ALL THE STAKEHOLDERS OF THE PROJECT.
5. BLOCKCHAIN IS A DISTRIBUTED, TANGIBLE SYSTEM WHICH COMBINED WITH TRADITIONAL TRADING METHODS WHICH IS BUILT ON CREDIT, BLOCKCHAIN AND OTHER INFORMATION WHICH CAN PROVIDE INDEPENDENT TRADING, RECONSTRUCTION OF LEARNING, HOW THESE OPERATIONS CAN HELP BUILD BETTER INTERNATIONAL TRADING SYSTEM OF WARE AND MATERIALS DESIGN, AND THE ECONOMIC PLANNING FORM OF THE INTERNATIONAL TRADING SYSTEM CAN BECOME MORE AS THE ASSUMPTION OF THE
6. CIRCULAR ECONOMY IS A SYSTEM WHICH AIMS TO DESIGN PRODUCTS AND SERVICES THAT CAN BE REUSED, REPAIRED, RECYCLED, AND REDESIGNED. IT IS A SYSTEM WHICH AIMS TO DESIGN PRODUCTS AND SERVICES THAT CAN BE REUSED, REPAIRED, RECYCLED, AND REDESIGNED. IT IS A SYSTEM WHICH AIMS TO DESIGN PRODUCTS AND SERVICES THAT CAN BE REUSED, REPAIRED, RECYCLED, AND REDESIGNED.
7. PROTOTYPES ARE THE EARLY VERSIONS OF A PRODUCT OR SERVICE THAT ARE USED TO TEST AND VALIDATE THE CONCEPT. PROTOTYPES ARE THE EARLY VERSIONS OF A PRODUCT OR SERVICE THAT ARE USED TO TEST AND VALIDATE THE CONCEPT. PROTOTYPES ARE THE EARLY VERSIONS OF A PRODUCT OR SERVICE THAT ARE USED TO TEST AND VALIDATE THE CONCEPT.

Bio-corridor



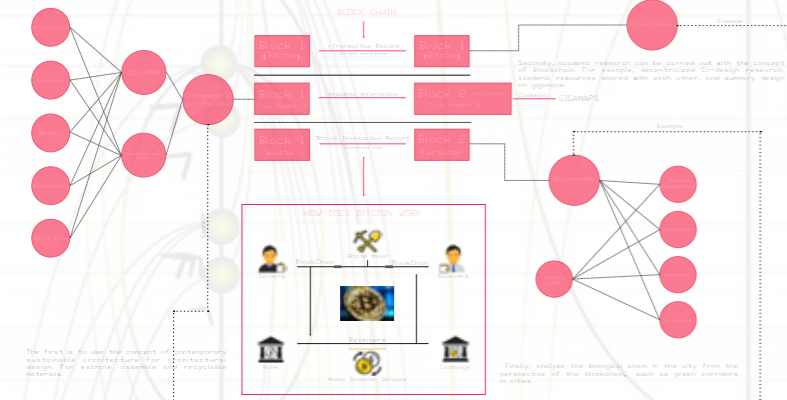


(Feng, 2020)

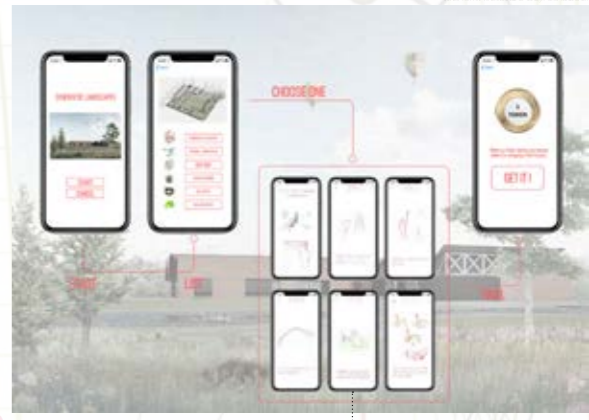
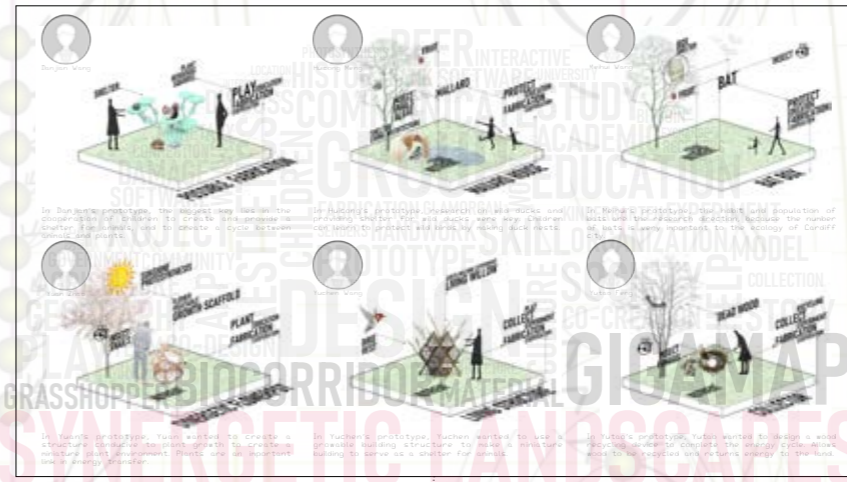
GIGAMAP OF CIRCULAR ECONOMY & BLOCKCHAIN

HUICHING MENG
21924645

1.1 Introduction

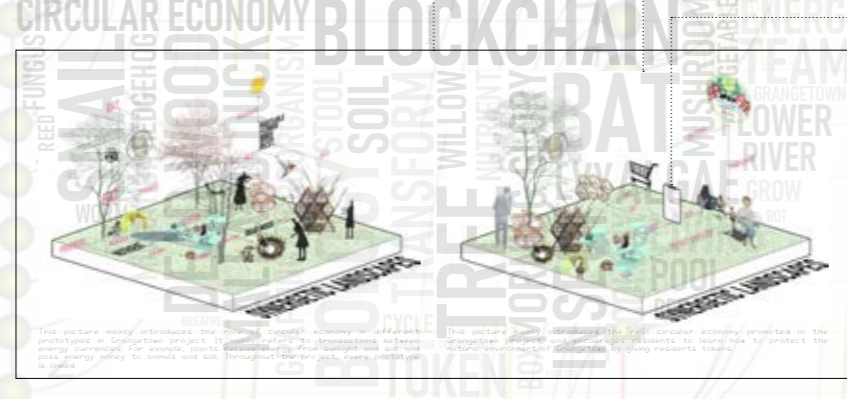
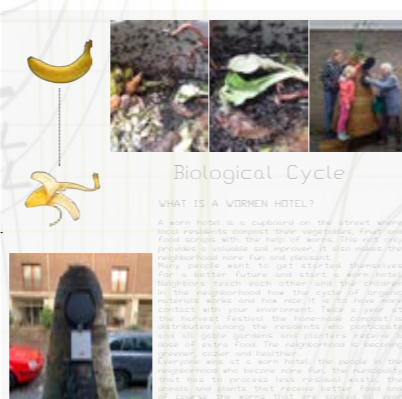
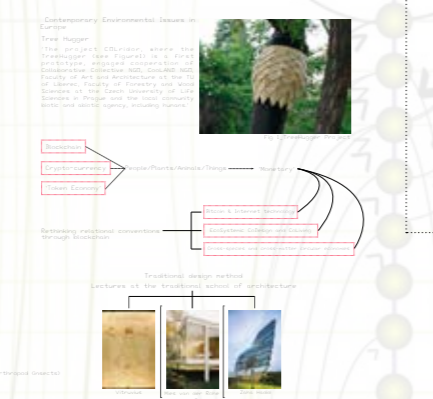
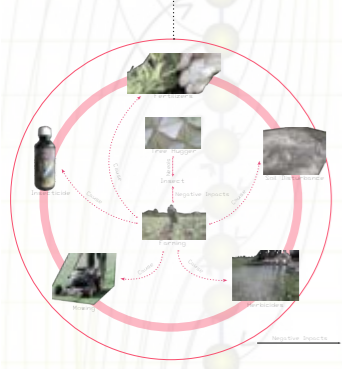


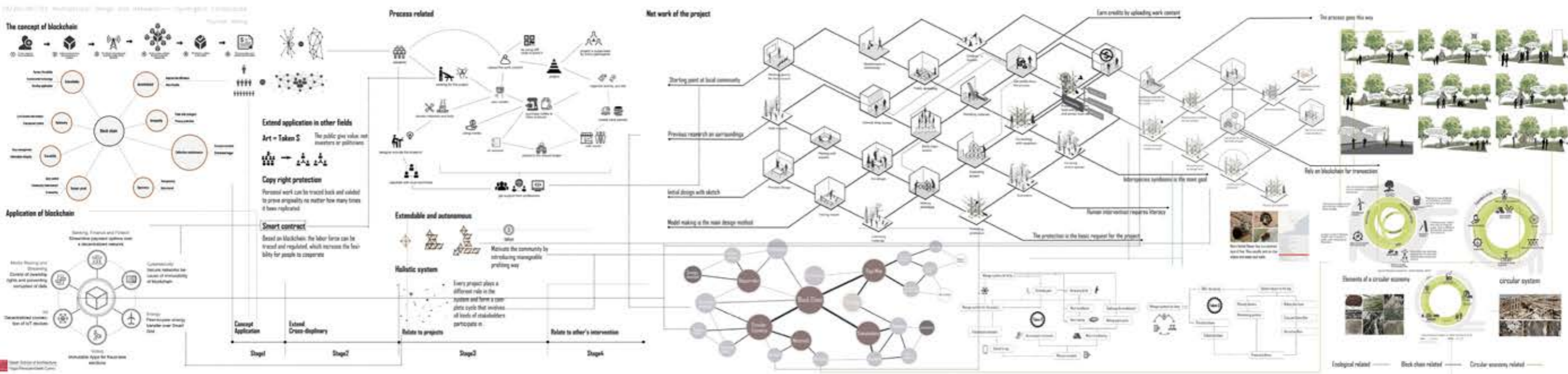
In a prototype developed for the 2016 London Design Festival, Arup Associates designed the Circular Building, one of the first buildings in the world to fully embrace Circular Economy principles, in which full components made from industrial and waste to their full potential and to the benefit of those who create them, creating a comfortable and aesthetic environment for the user.



The picture shows the design of the app for this project. Residents learn the instructions to make prototypes and receive tokens.

Contemporary Environmental Issues





(Wang, 2020)

My project can provide carrying platform for the Bat Box and create a more holistic food chain

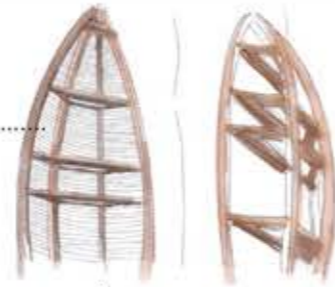


Figure from Meihui



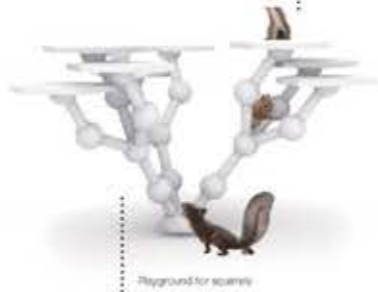
Figure from Yuan

We both expand the project through the combination of modules and adaptable to different environments

Bionic construction method can provide a platform to build my module



Shelter for beekeeping



Playground for squirrels



Figure from Danjian



Figure from Huicong

We are both using living plants to meet stronger carrying capacity and better duration



This is the site we are going to use, southwest greenery is the main area we can place our projects, the original trees provide us natural support from the bad weather, which is one of the reasons we place the projects next to trees. (Edit from the drawing produced by Mann Williams)



Figure from Yutao

We share a similar construction method and materials to invite more residents to participate in our joint project together



Synergetic Landscapes DIY Competition

The aim of the competition is to encourage people to use natural materials to create liveable spaces for other species in your front and back garden.

Deadline: August 10th, 2020

Please, select the design you would like to reproduce and go to its DIY recipe via QR code.

How to Participate:

1. Post photos of the completed installation on Twitter and @Synergetic_landscape
2. Upload it to a map on this website:
<http://47.107.148.84/pages/login.html>

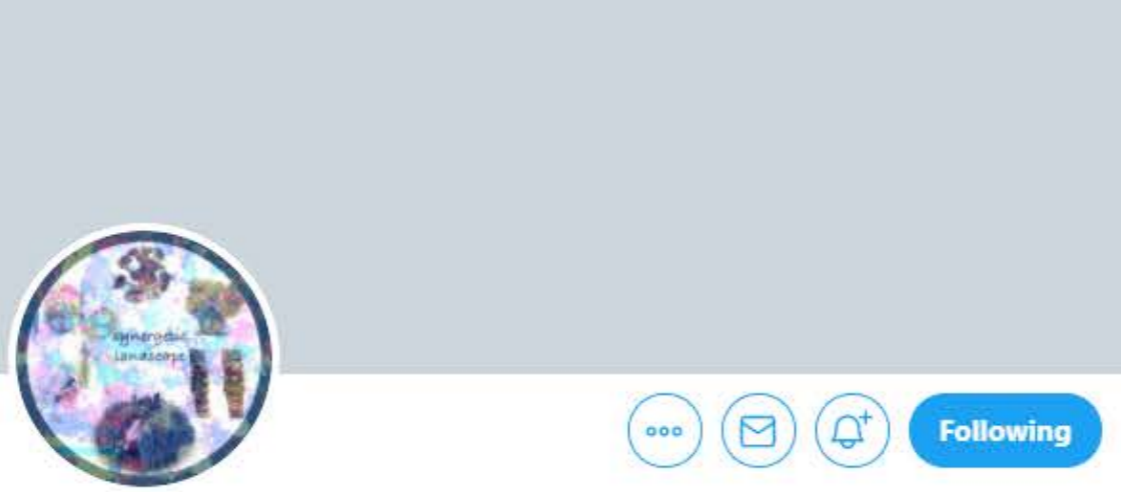
Rewards: Participants could receive Tokens that can be exchanged for gifts from local small businesses.



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Tweet

synergetic_landscape 16 Tweets



synergetic_landscape
 @gt_landscape Follows you
 Joined May 2020
 66 Following 8 Followers
 Followed by YesGrangetown, Grange Pavilion, and Community Gateway

Tweets Tweets & replies Media Likes

synergetic_landscape @gt_landscape · Jul 15
 Hi everyone, we are going to have a DIY competition. Are you interested in any of our projects? If you follow the tutorial, you will find that they are not difficult to build. we also have good prizes. More details are in the poster.
 @WSofArchi @CommunityGtwy



Search Twitter



You might like

- Lindsay Pica-Alfano @LindsayPica Follow
- Borderless Studio @borderless_MXUS Follow
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Show more

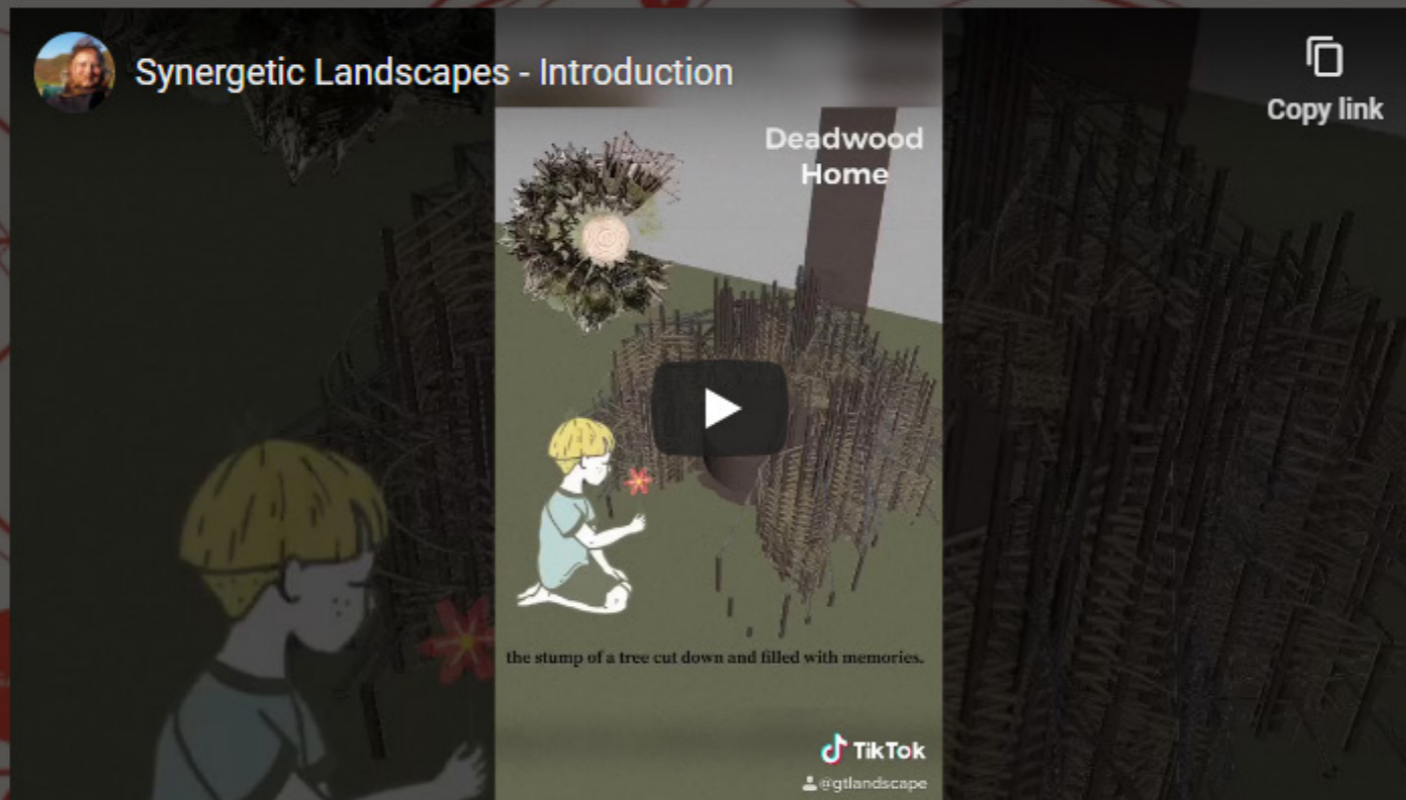
What's happening

US elections · Last night
President Trump was administered supplemental oxygen at the White House before going to the hospital, according to The New York Times

Messages

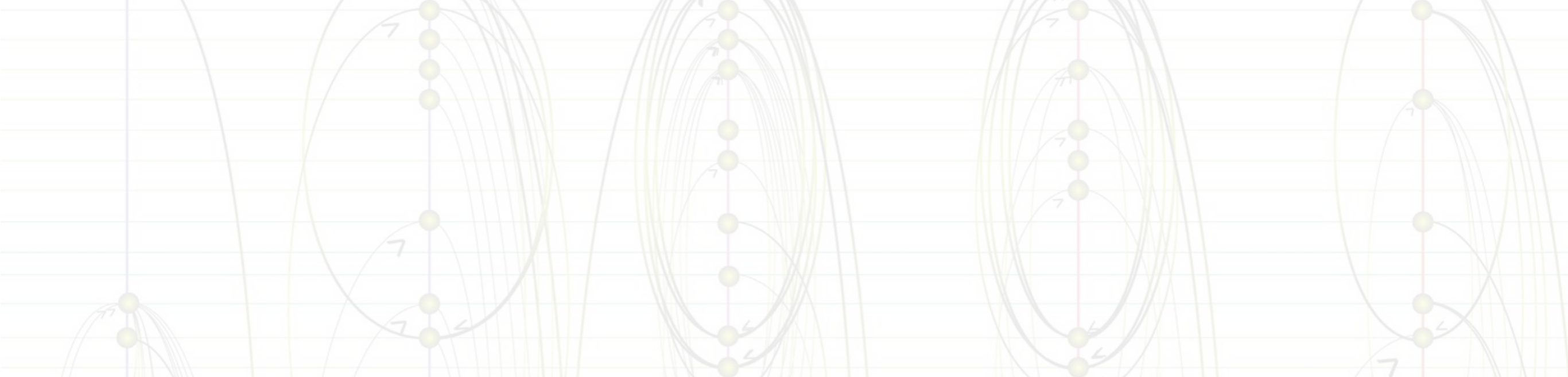
(Feng, m 2020)

community in codesigning nourishing environment with and for All. The preoccupation with defining the legal person in anthropocentric terms highlights what is of value to an [Anthropocene] society. The fact that the environment in most legal systems does not have legal personhood status, but that corporations do, is indicative of the fact that contemporary western societies see the natural world as being for profit (Hutchison, 2014). The project aims for transition towards the era of Post-Anthropocene where living and non-living beings and systems coexist together in synergy.



Synergetic Landscapes introduction video (Feng, 2020)

We will be posting DIY tutorials for urban interventions people can reproduce in their



SYSTEM-ORIENTED DESIGN

RECTOR PLAN

LEGEND

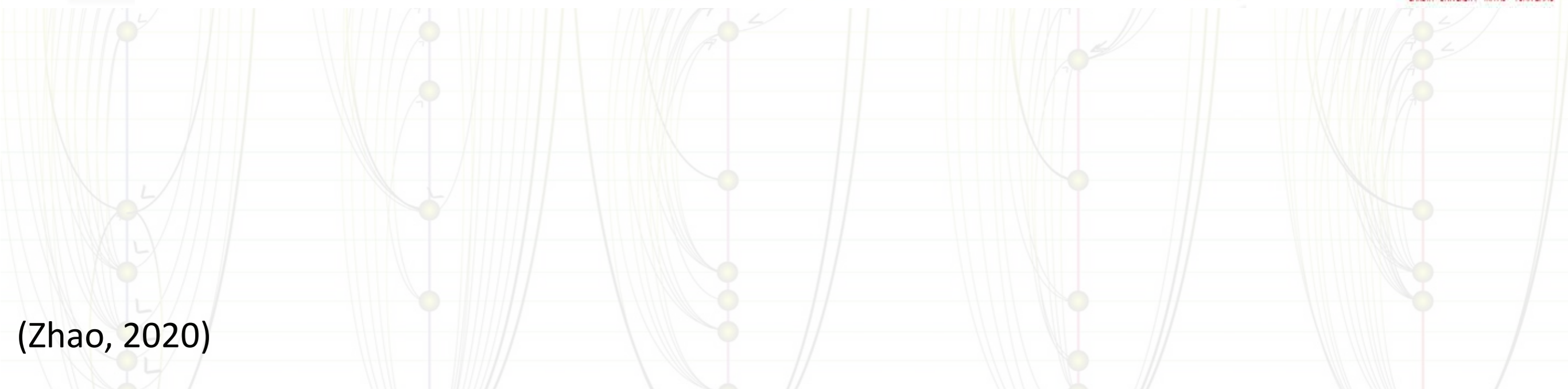
MAIN CLEAR

SECONDARY CLEAR

OUTLET

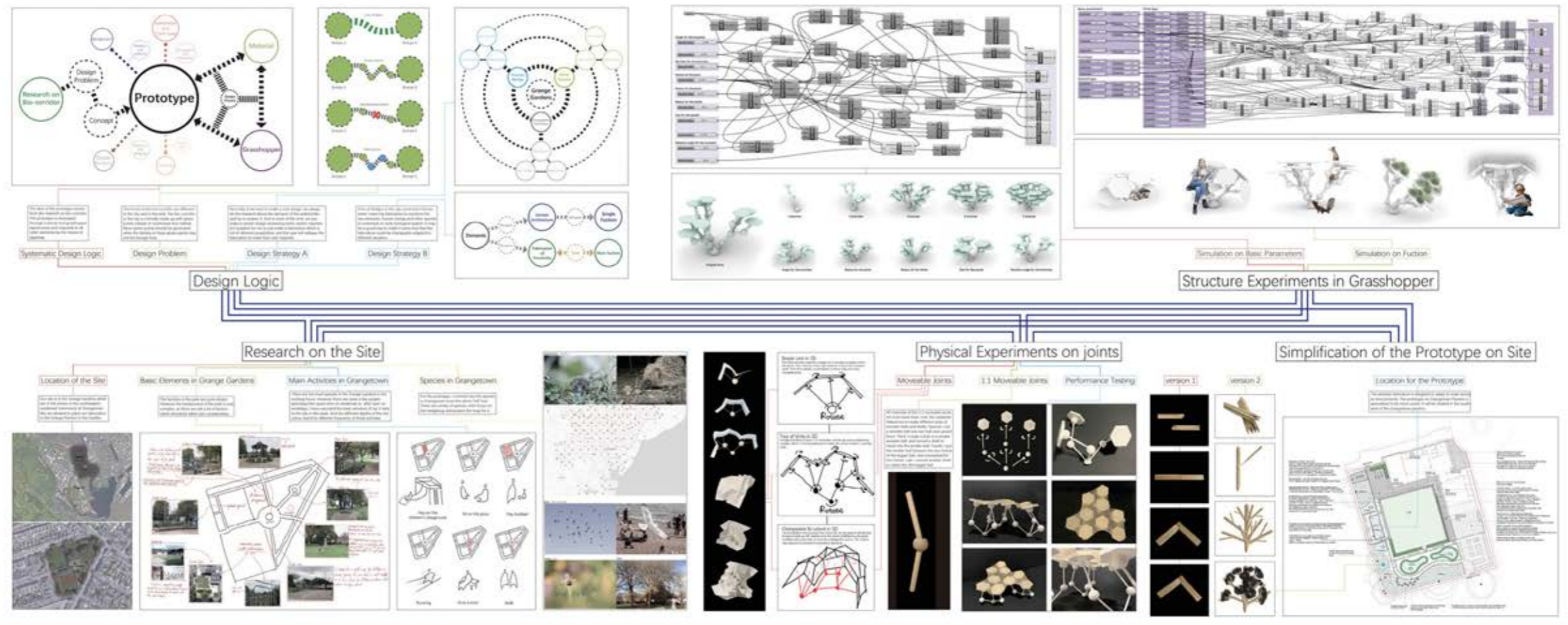
COLLECTION

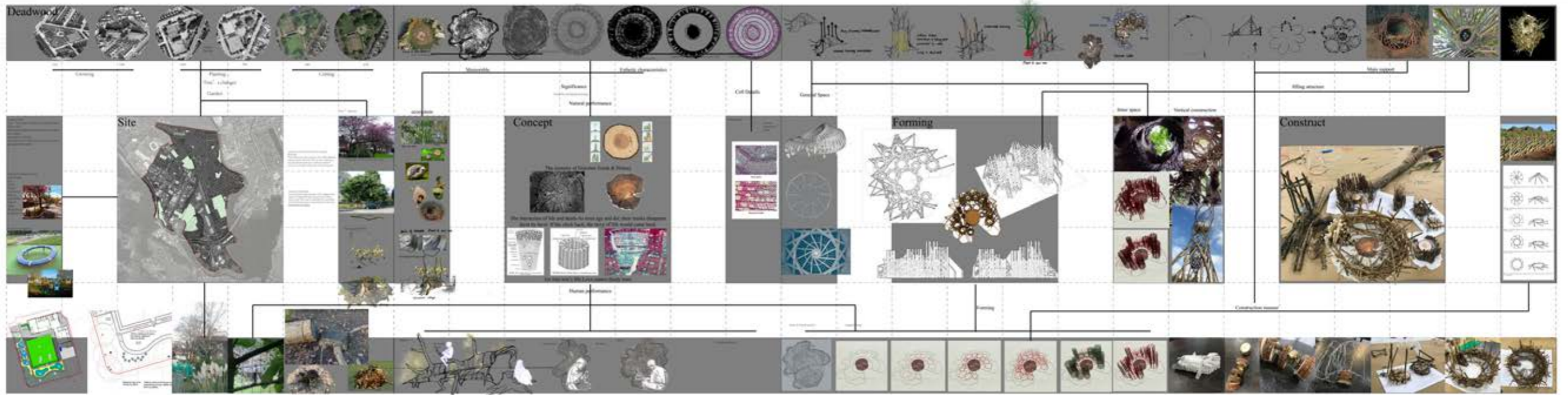
CARDIFF UNIVERSITY MA AD YUAN ZHAO



(Zhao, 2020)

Possible Fabrication



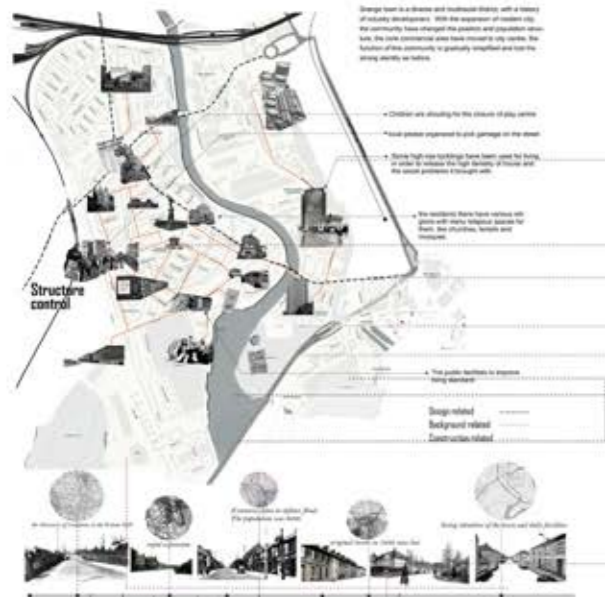


(Feng, 2020)

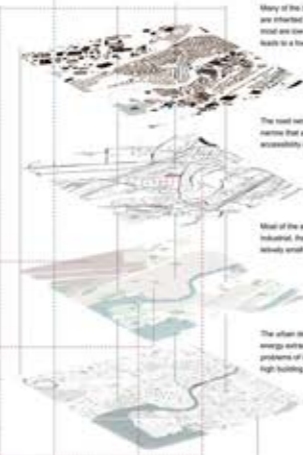
ADR Project: Eco-Metropolis

2022-2023 Architecture Design and Research - Sustainable Communities

The main objective of this project is to explore the symbiotic relationship between human and nature and use it as a medium to convey the need to protect the ecosystem, especially in the urban area, which is a platform for learning and practice. This project takes strength on the basic design element, with flexible, lightweight and structural stability. The project aims to address the flexibility of building with various programming, and to reflect the density of forms through different construction materials. The structure and overall structure is more friendly to the collective participation of the residents, allowing the project to continue through the voluntary contribution and responsibility of the residents. From the urban point of view, the adaptability of the installation is sufficient to fit the variety of urban spaces, which is exactly what the urban community needs.



Site analysis



Process model



Topological flexibility



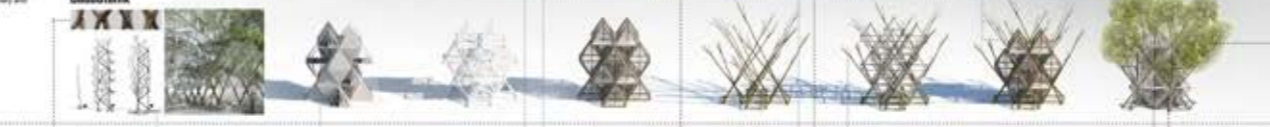
Structural stability

Structural stability from flexible connections in each angle

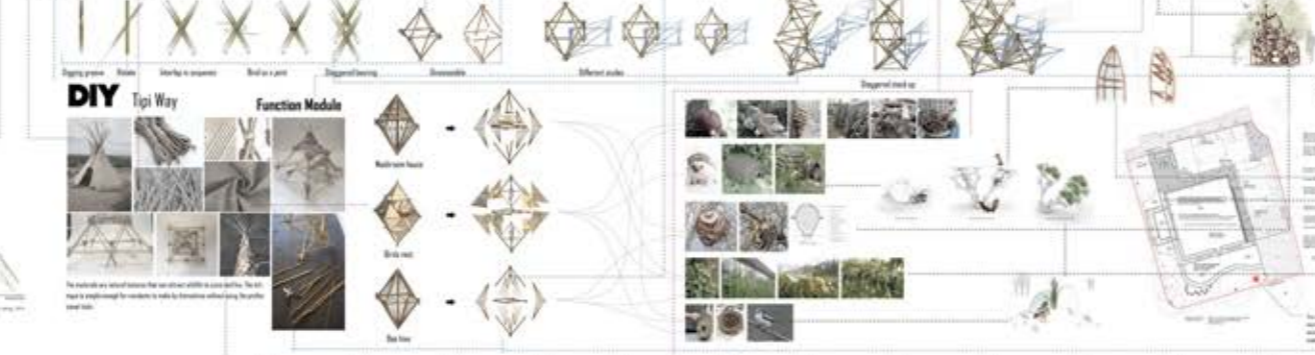
Possibility



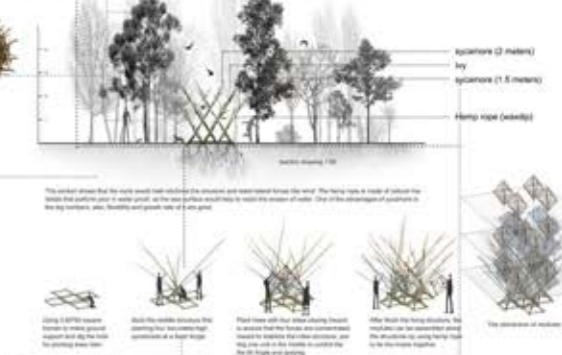
Bauotank



Joint



Section





generative communities redesign?

online / tangible

Thank you!

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Lecturer at the Welsh School of Architecture

Founding Member and Chair of Collaborative Collective

Founding Member of Systemic Design Association

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