

# Workshop. Design

When science meets art  
for climate action at University campuses

By: Miriam Hamel & Claire Waffel  
Bauhaus-University in Weimar

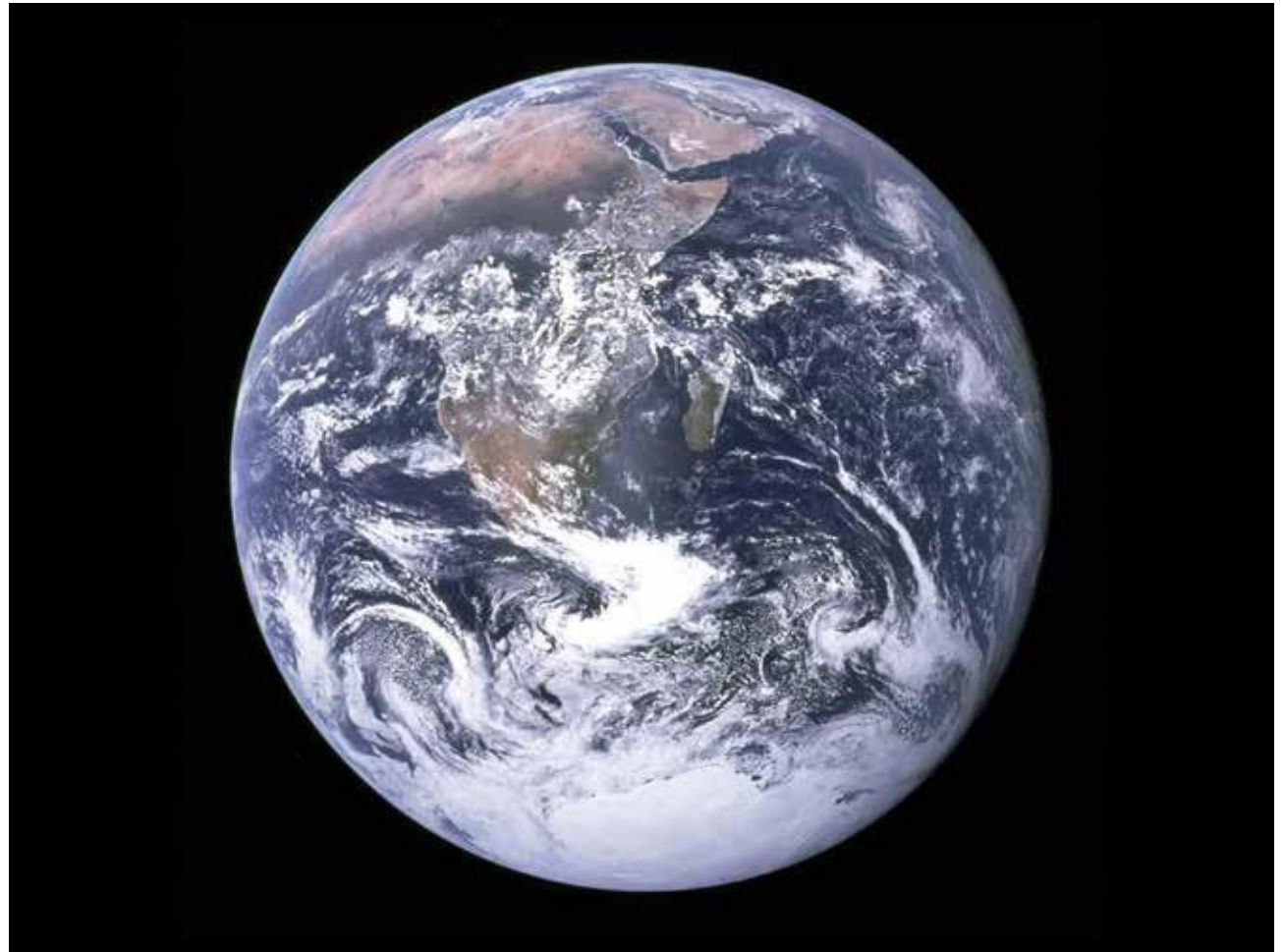
05-09.09.2022



## HISTORICAL CONTEXT

### **Whole Earth Catalog**

U.S. counterculture  
magazine  
published 1968 and 1972  
by Stewart Brand





# CLIMATE CHANGe AND CHALLENGES

## Withered corn

Drought in Europe  
2022



## SHIFT IN PERSPECTIVE



### Documenta 15

Dan Perjovschi  
Inscribed columns of the  
Fridericianum with  
Documenta themes such  
as peace, solidarity or  
sustainability

## REFERENCE

### 7000 oaks

Stadtverwaltung statt  
Stadtverwaltung  
Joseph Beuys  
documenta 7  
1982





## REFERENCE



### Park Fiction

Artistic and socio-political  
project in Hamburg  
Since 1990s

IDEA League Summer School  
Campus RWTH Aachen  
Miriam Hamel | Claire Waffel

## REFERENCE

### Wall stairs

Martin Kaltwasser &  
Folke Köbberling  
Wall strip, Berlin

IDEA League Summer School  
Campus RWTH Aachen  
Miriam Hamel | Claire Waffel





## REFERENCE



**From foreign countries  
in their own cities**

Markus Ambach  
Düsseldorf station district  
2017-2019

IDEA League Summer School  
Campus RWTH Aachen  
Miriam Hamel | Claire Waffel

## REFERENCE



## We are artists

muf architecture/art  
London  
Since 2010

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Campus RWTH Aachen  
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## REFERENCE



## Movement

Tomás Saraceno  
Maison Ruinart, Reims, France  
2021

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## REFERENCE

### Yardhouse

Assemble Studio  
Stratford  
2012 - 2014

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## REFERENCE



### Baghdad

Raul Walch  
Acryl on fabric  
2018

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## REFERENCE

### University of the neighborhood

HafenCity Universität  
Researching elaborating  
and testing contemporary  
forms of education at  
the intersection of culture,  
knowledge and urban  
development.  
2009 - 2013





## REFERENCE

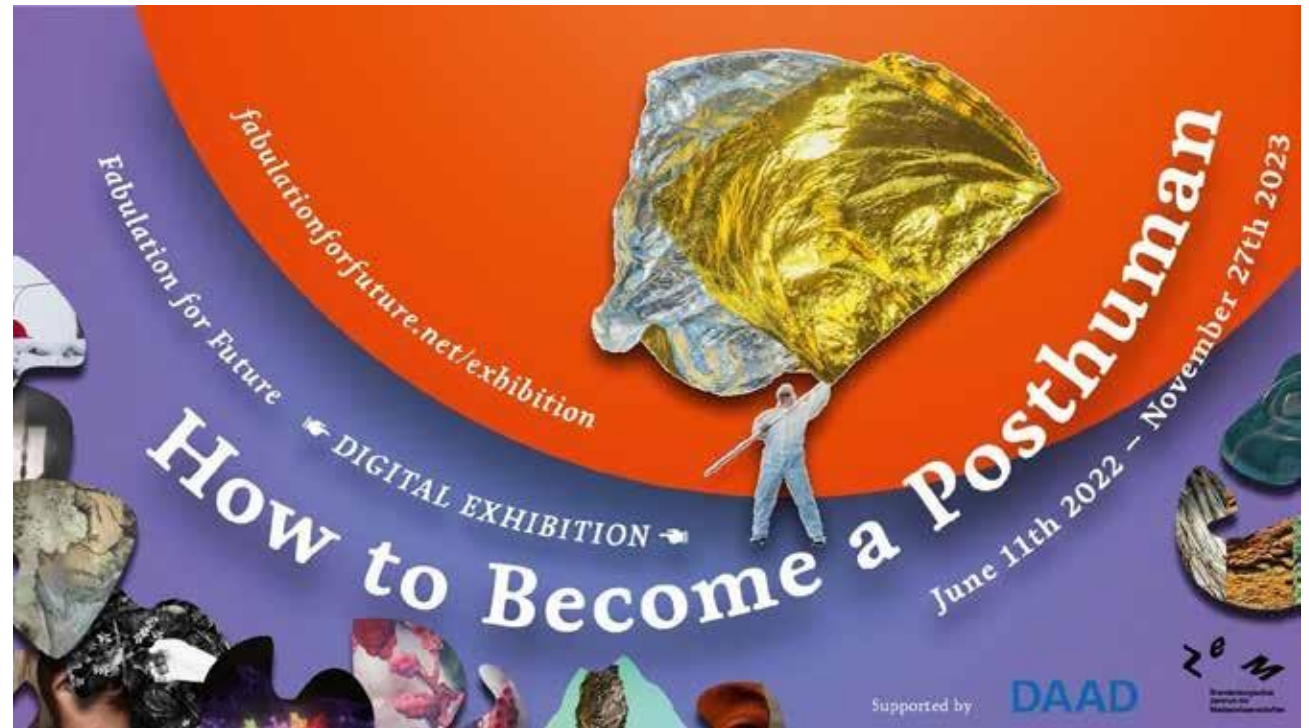


### Floating University

Raumlabor Berlin  
A Natureculture  
learning site  
Since 2018

IDEA League Summer School  
Campus RWTH Aachen  
Miriam Hamel | Claire Waffel

## REFERENCE



### Fabulation of future

Collective artistic  
research project  
Christine Reeh-Peters  
Fee Altmann  
Since 2021

IDEA League Summer School  
Campus RWTH Aachen  
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## REFERENCE

### Speculative fabulation

Dona Haraway  
Video  
2016

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## ARTISTIC POSITION

### Stadtfinden

Artistic research on the meaning and function of artistic interventions in the context of urban development processes



# CASE STUDIES



## ISLANDS

### LOCATION

Barbarossaplatz + Kölner Ring

### PERIOD

19. - 21.06.2020 und 12.07.2020  
27. - 29.05.2022

### INITIATOR

Miriam Hamel

### COOPERATION

Bronnbacher Stipendium - Kulturelle Kompetenz für künftige Führungskräfte“ des Kulturkreises der deutschen Wirtschaft, der Universität Mannheim und des KIT Karlsruher Institut für Technologie  
Maud Canisius  
Randolph Capelle  
Oliver Hacke  
Christian Hamel  
Margrit Miebach  
Lena Trost  
Pierre Wiegler

### FUNDING

Kreativfonds der Bauhaus-Universität Weimar



## CHORWEILER gOLD

### LOCATION

Köln Chorweiler

### PERIOD

01.09. - 31.12.2020

### INITIATOR

Miriam Hamel  
Valerie Häußler

### COOPERATION

gemeinschaftsgrundschule Riphahnstraße  
Domimkerei  
CityCenter  
Essbare Stadt

### FRAME

Programm „Starke Veedel - Starkes Köln“

### FUNDING

Bundesministerium des Inneren für Bau und Heimat, das Ministerium für Heimat, Kommunales, Bau und gleichstellung des Landes Nordrhein-Westfalen, die Städtebauförderung von Bund, Ländern und gemeinden sowie die Stadt Köln



## LIVE 1:1

### LOCATION

Deutzer Hafen Köln

### PERIOD

07. - 16.08.2021

### INITIATOR

Miriam Hamel  
Annelie Knust  
Margrit Miebach

### COOPERATION

Bronnbacher Stipendium - Kulturelle Kompetenz für künftige Führungskräfte“ des Kulturkreises der deutschen Wirtschaft, der Universität Mannheim und des KIT Karlsruher Institut für Technologie

### FRAME

Superpopp-Up Performance Festival des Nextmuseum, einem Projekt des NRW-Forum Düsseldorf/Kunstpallast Düsseldorf und des Museum Ulm

### FUNDING

moderne stadt - gesellschaft zur Förderung des Städtebaues und der gemeindeentwicklung



















































UNSERE

UTOPIE

LEGT NICHT  
IM PHYSISCHEN  
PRODUKT,  
SONDERN IM  
PROZESS, IN DER  
ZUSAMMENARBEIT

!!!  
• • •

## ARTISTIC POSITION

**This is Fairbourne.  
Rising Seas, Memory  
and the Imagination**

Claire Waffel  
Artistic research  
Bauhaus-Universität  
Weimar

IDEA League Summer School  
Campus RWTH Aachen  
Miriam Hamel | Claire Waffel



# Site of investigation

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**Environment**

**"This is a wake-up call": the villagers who could be Britain's first climate refugees**

**Tun Wail**  
Sat 18 May 2019 10:00  
BST  
f t e 5,903 224



▲ Gareth Evans of Natural Resources Wales. "At high tide you can see how vulnerable Fairbourne is." All photographs: Joel Redman/The Guardian.

As sea levels rise, Fairbourne, sandwiched between mountains and the beach, is being returned to the waves. But where will its residents go?

**I**t is an almost perfect spring day. The sky is milky blue and there is barely a ripple on the mirror-flat expanse of Harbourside Bay. The sunshine is warm and the mountains are beginning to turn from slate-grey to luscious green. Rev Wilkins, a former

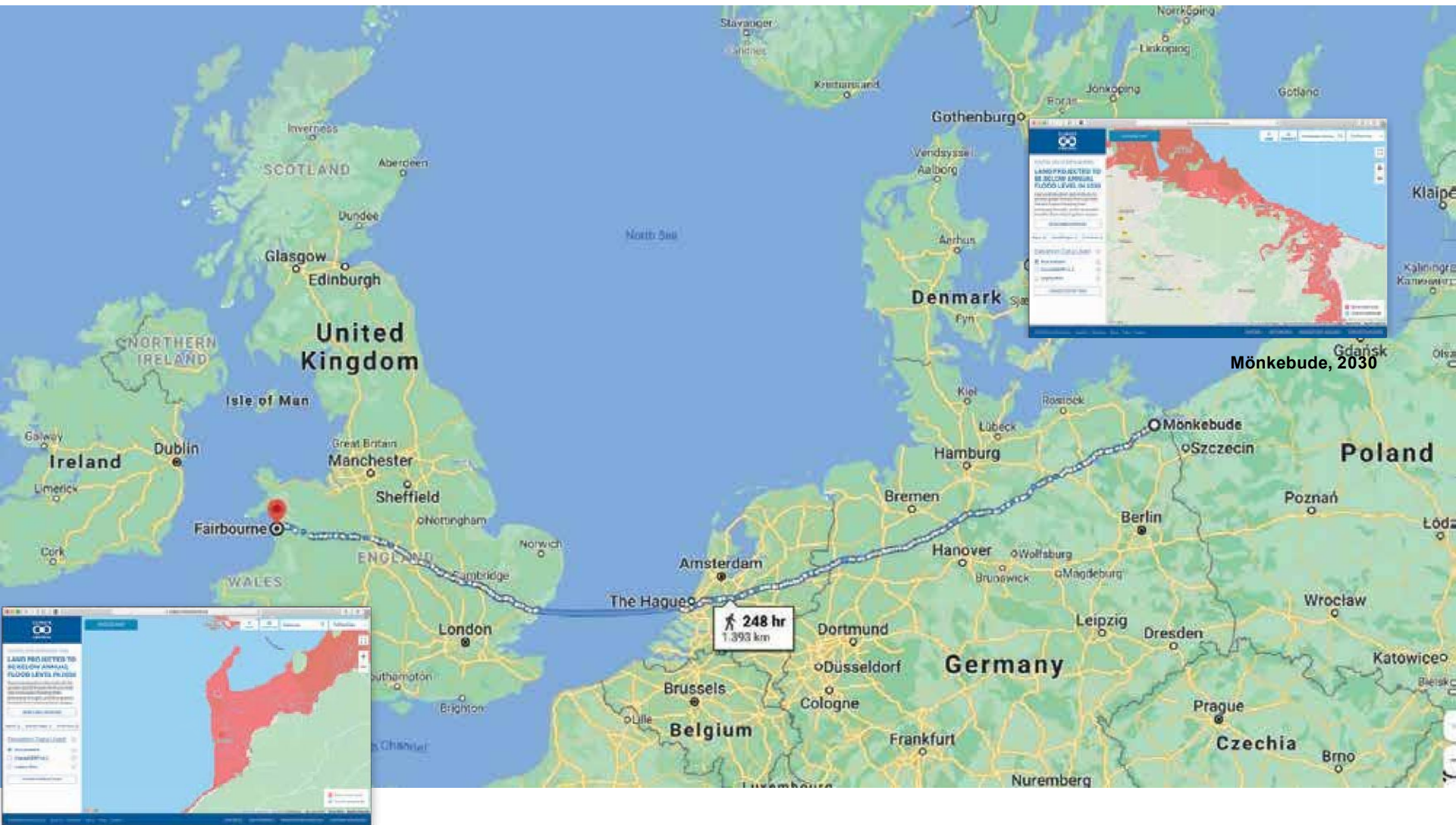
**Most viewed**  
  
Ministers flatly reject Tory demands to end Covid controls by May  
  
BBC faces oblivion despite

Claire Waffel / This Was Fairbourne. Rising Seas, Memory And The Imagination.



# Sites of investigation

Climate Central, Coastal Risk Screening Tool, <https://coastal.climatecentral.org>, flood risk and sea level rise



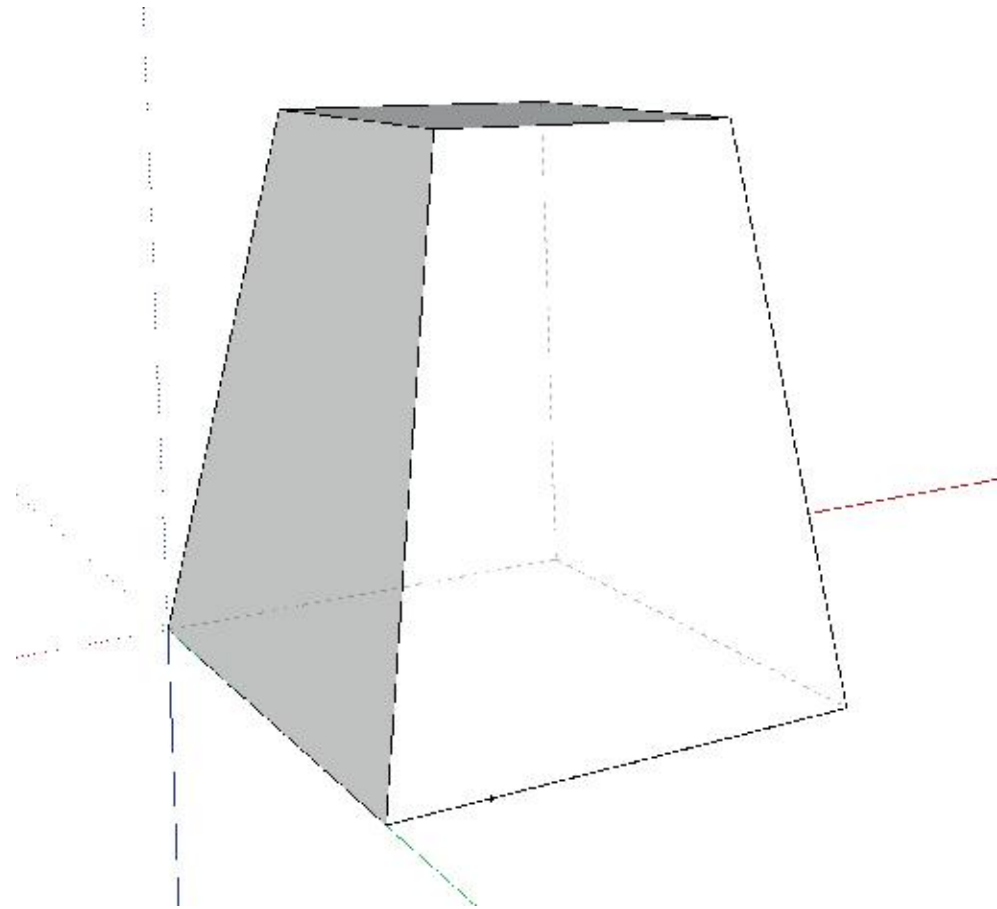
Fairbourne, 2030

Claire Waffel / This Was Fairbourne. Rising Seas, Memory And The Imagination.

# Dragons's Teeth



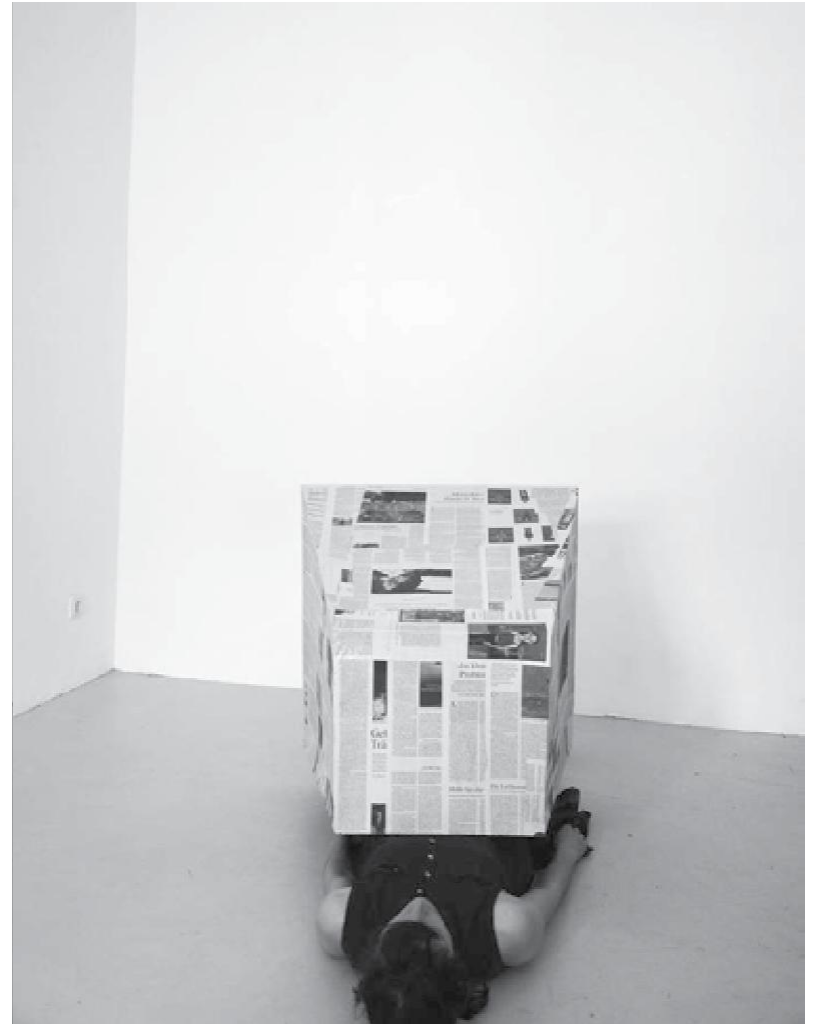
# Dragon's Teeth



Each block is a standard size, trapezoid section (1.7m high), rectangular plan, 1.5x 1,5 m at the base, tapering to 0.9 x 0.9 m at the top, set at 45 degrees off the line, with a gap of 1.35 m between adjacent cubes (at the base). It is calculated each block weighs in the region of 15 tons.



# Dragon's Teeth



Claire Waffel / This Was Fairbourne. Rising Seas, Memory And The Imagination.

## ARTISTIC POSITION



### I Cannot See the Ocean from Here

A video by Claire Waffel  
Camera: Michael Weihrauch  
2021, 10 min.

[https://www.youtube.com/watch\\_popup?v=WltUJfZokbA](https://www.youtube.com/watch_popup?v=WltUJfZokbA)

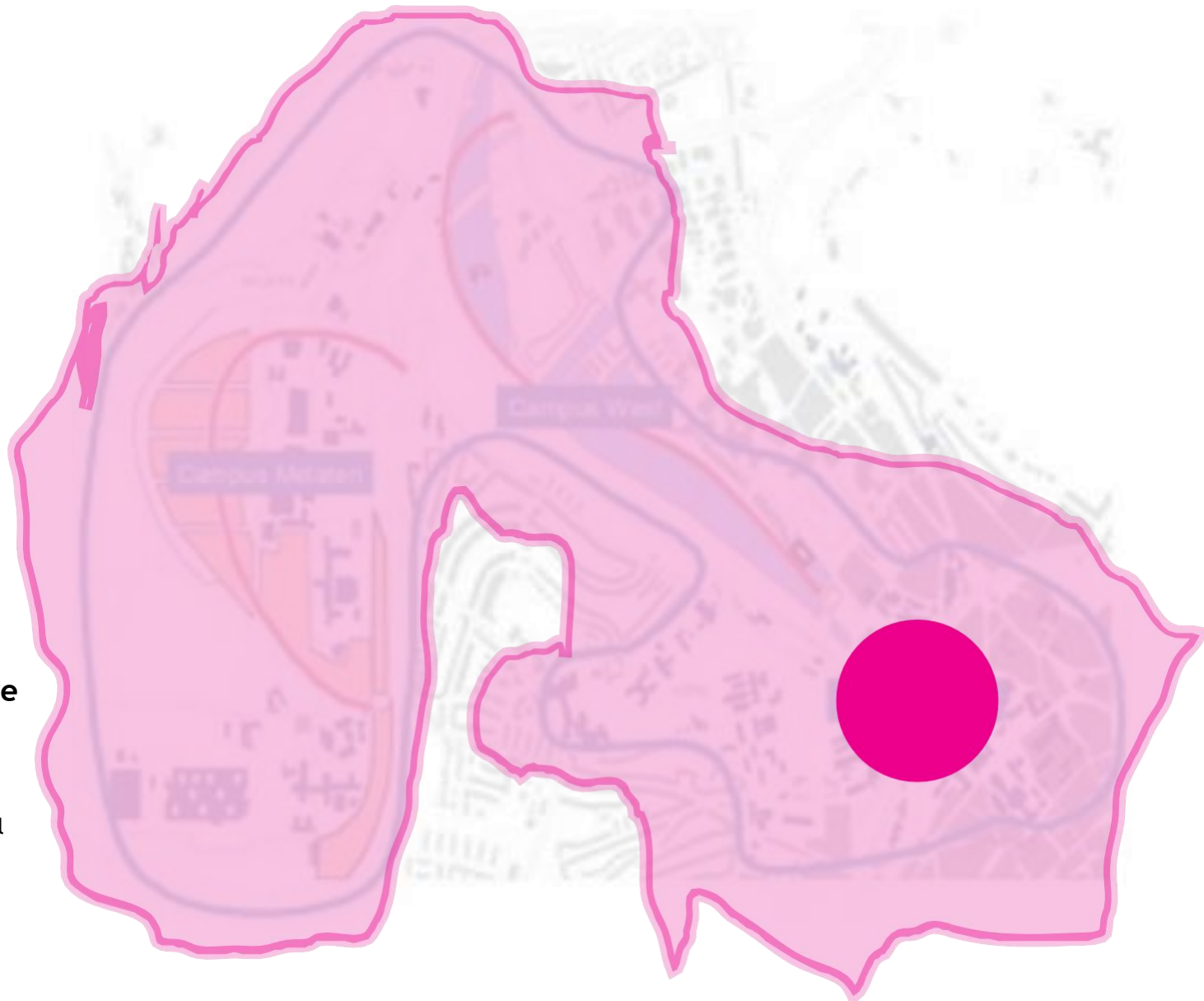
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# APPROACH

## Situational artistic development of the campus of the future

When Science Meets Arts  
for climate action at  
university campuses  
IDEA League Summer School  
RWTH Aachen  
05.-09.09.2022

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## RESEARCH QUESTION

# How is climate change me?

### Research question

For climate action  
at university campuses

**g OAL**

# **Development of a collaborativ utopia of the Campus of the fufute.**

**goal**

For climate action  
at university campuses

## ATTITUDE

**curious  
courageous  
collaborative  
supportive  
experimental  
open-ended**



## ARTISTIC FRAME



### Ark Super C

University as a flagship  
for the future

# **Interventions Site Writing Video**

## **Methodology**

For climate action  
at university campuses

## INTERVENTION



## ISLANDS

Miriam Hamel  
Barbarossaplatz, Köln  
2021

IDEA League Summer School  
Campus RWTH Aachen  
Miriam Hamel | Claire Waffel



# SITE WRITING



## Site writing

Writing in the site als a  
critical spacial practice

## VIDEO



## Flow Instabilities

Claire Waffel  
Pere Ferrera Bertran  
instruments, video  
Hevre, Kraków  
2018

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## CLIMATE TOOLS



**ARK SUPER C**



**gIVE-AWAY OBJECTS  
gIVING-AWAY STORIES**



**CABINS OF REST**



**PRACTICING AN UNFAMILIAR ACTION ON A SITE THAT REFERENCES CLIMATE CHANGEg**



**SOLAR ZEPPELIN**



**REQUISITES OF THE CLIMATE EMERGENCY**



**SPECULATION IN PICTURES**



**SOLAR COOKER**



# CONCEPT

## CLIMATE TOOL



### Tool

### Cabins of Rest / Shelters

### Contribution to climate change

leading more sustainable lives by taking care of personal energy

### Manual

Build a triangular tent construction from battens and cover it with fabric using a stapler

### Material

laths, screws, fabric, staples

### Aids

cordless screwdriver, stapler

### Purpose

to find peace and strength within oneself in order to be able to face the world anew

### Function

to create a retreat spaces for inner contemplation, break, regeneration, concentration, bilateral exchange

### Application

applicable as a personal retreat in the midst of the hectic, turbulent environment.

### Producer

Miriam Hamel

### Date of creation

16.08.2022

### References

see sketch in the appendix part

- please attach sketches on the following pages -

# ARK SUPER C

## MATERIAL

emergency blankets

## AIDS

scissors, tape, beamer, overhead projector

## MANUAL

Take images of plants and insects in your direct surroundings and project these onto a wall. Attach an emergency blanket and trace the outlines of the different images as shapes onto it. Cut out the shapes and arrange them onto walls of windows.

## FUNCTION

rescue plants and insects and in this way rescue/sustain our own lives

## APPLICATION

windows and walls of buildings

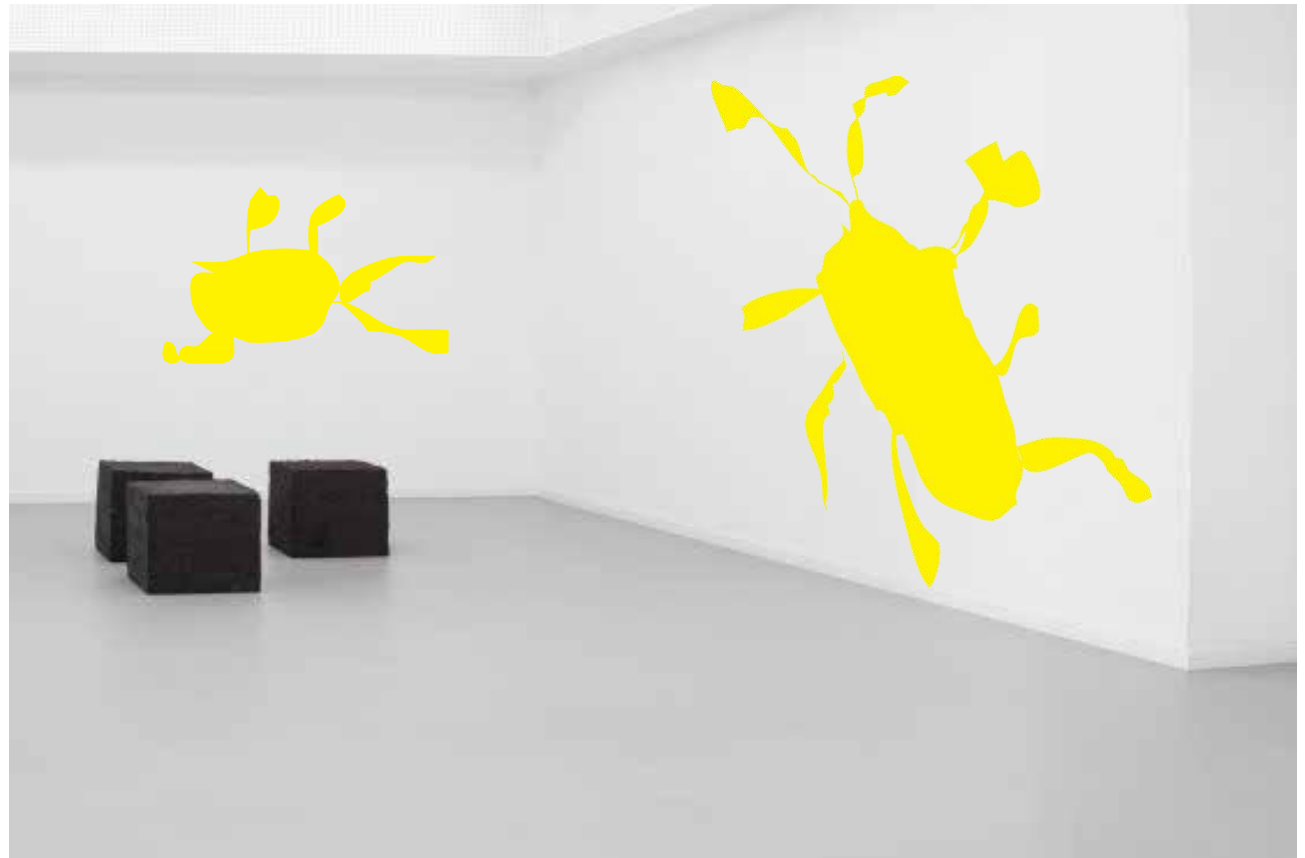
## PURPOSE

to translate the natural world into the built environment, to acknowledge multispecies realities, to challenge binary thinking, to bring the outside indoors

## CONTRIBUTION TO CLIMATE CHANGE

Highlight the correlation of nature and culture, thereby encouraging the implementation of nature-based-solutions.

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Campus RWTH Aachen  
Miriam Hamel | Claire Waffel



# gIVE-AWAY OBJECTS gIVING-AWAY STORIES

## MATERIAL

give-away object or material from  
plattform such as ebayKleinanzeigen

## AIDS

computer or smartphone, internet,  
communication

## MANUAL

Obtain a used item through Ebay  
Kleinanzeigen and tell its story.

## FUNCTION

to give something that is no longer  
needed a new use and show its  
personal value, to reuse existing  
resources

## APPLICATION

in any situation or place where one  
requires new materials or objects for  
making new things

## PURPOSE

to create a connection through  
something that is no longer needed,  
show personal stories and memories  
in connection with objects

## CONTRIBUTION TO CLIMATE CHANGe

work with a circular economy to  
reduce material and resource  
consumption as well as greenhouse  
gas emissions

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Miriam Hamel |Claire Waffel





# CABINS OF REST

## MATERIAL

laths, screws, fabric, staples

## AIDS

cordless screwdriver, stapler

## MANUAL

Build a triangular tent construction from battens and cover it with fabric using a stapler

## FUNCTION

to create a retreat space for inner contemplation, break, regeneration, concentration, bilateral exchange

## APPLICATION

applicable as a personal retreat in the midst of the hectic, turbulent environment.

## PURPOSE

to find peace and strength within oneself in order to be able to face the world anew

## CONTRIBUTION TO CLIMATE CHANGE

leading more sustainable lives by taking care of personal energy



# PRACTICING AN UNFAMILIAR ACTION ON A SITE THAT REFERENCES CLIMATE CHANGE

## MATERIAL

yourself, a selected action

## AIDS

camera, somebody to record you

## MANUAL

Lead an unusual action in a place related to climate change. Document this action and reflect on it afterwards.

## FUNCTION

Showing new aspects and connections

## APPLICATION

applicable to an environment that is connected to climate change

## PURPOSE

to break away from routines and habits, to see an environment you know well with fresh eyes, to start acting into your immediate environment

## CONTRIBUTION TO CLIMATE CHANGE

raise awareness of threat to immediate surroundings

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# FLY A SOLAR ZEPPELIN TO LOOK INTO THE SKY MORE RESPIRE FROM THE SUN

## MATERIAL

used plastic bags, rope

## AIDS

cutter, ruler, tape, iron, hairdryer or the sun

## MANUAL

Create a volume from discarded garbage bags, fill it with air, let the sun heat it until the body rises.

## FUNCTION

to visualise physical phenomena and make them tangible

## APPLICATION

outdoors in the sunshine

## PURPOSE

to make the energy of the sun tangible, to show the effect of temperature differences, playful free debate with and through the sun

## CONTRIBUTION TO CLIMATE CHANGE

Demonstrate the power of solar energy for use in mobility.





# REQUISITES OF THE CLIMATE EMERgENCY

## MATERIAL

dried plants, perforated stones

## AIDS

scissors, garden shears

## MANUAL

Collect dried plants and install them as „props to climate change“ in the room using perforated stones.

## FUNCTION

to design a scenery in which climate change is present and creates awareness of its urgency

## APPLICATION

applicable in any situation on any subject

## PURPOSE

enable a conscious spatial experience, create awareness through contrast

## CONTRIBUTION TO CLIMATE CHANGe

Create awareness of the ubiquity of climate change and urgency to act.

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Miriam Hamel | Claire Waffel



# SPECULATION IN PICTURES

## MATERIAL

photographs printed onto  
foils, glue or tape, paper, pens

## AIDS

scissors, overhead-projector

## MANUAL

Take or find photographs of a building. Cut them and reimagine the future of the building as a building that expands our ecological or social sensitivity. Use the fragments of those as well as further images to make a collage of your vision.

## FUNCTION

to start imagining how to adapt a building to a changing environment

## APPLICATION

applicable in any situation on any subject.

## PURPOSE

develop ideas of how to transform the built environment through visual overlay on a scale of 1:1

## CONTRIBUTION TO CLIMATE CHANGE

Show up images of possible transformation scenarios



# SOLAR COOKER

## MATERIAL

Rescue blanket, cardboard, wooden strip, tape, heat-resistant transparent plastic bag, black container with lid, water.

## AIDS

Sun

## MANUAL

Building a solar stove according to instructions and placing it in the sun. Filling water into the container. Wait until the water boils. Pour tea and enjoy.

## FUNCTION

to make visible the connection between energy consumption and usage, to become more independent of fossil fuels, to find ways of meeting your needs through your immediate environment

## APPLICATION

sunny learning or working environments or any other place where one requires a break or intake of food

## PURPOSE

Showing low-tech as a resource-saving strategy

## CONTRIBUTION TO CLIMATE CHANGE

green energy, back to basics and DIY mechanisms, low-tech solutions

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# MATERIAL



# AIDS



# CONSTRUCTION

# HOW TO BUILD IT



USED PLASTIC BAGS

HOW YE DO IT:



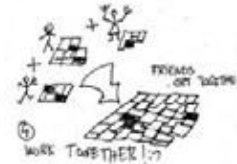
COLLECT USED PLASTIC BAGS



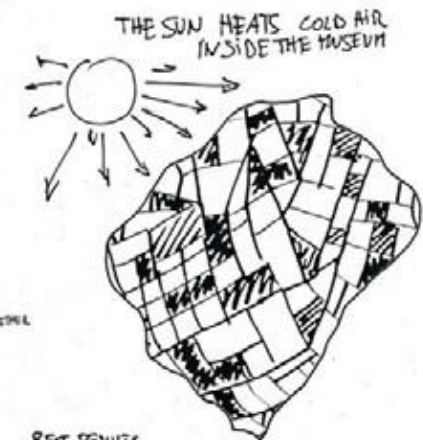
CUT BAGS IN RECTANGULAR PIECES



PASTE TOGETHER RECTANGULAR PIECES



WORK TOGETHER! :)



BEST RESULTS  
CLEAR SKY  
NO WIND



FLOAT IN THE SKY!



# STORYBOARD

take#1



ARK SUPER C

take#2



gIVE-AWAY OBJECTS  
gIVING-AWAY STORIES

take#3



CABINS OF REST

take#4



PRACTICING AN UNFAMILIAR ACTION ON A SITE THAT REFERENCES CLIMATE CHANGE

take#5



SOLAR ZEPPELIN

take#6



REQUISITES OF THE CLIMATE EMERGENCY

take#7



SPECULATION IN PICTURES

take#8



SOLAR COOKER

# PROgRAMM

## MO OKT 5th

take#1  
**WELCOME**  
Welcome  
Introduction  
Lectures

take#2  
**INTRODUCTION**  
Lectures

take#3  
**COMMON PICNIC**

## TUE OCT 6th

take#4  
**RESEARCH**  
Input Methodologie  
Research

take#5  
**CONCEPTION**  
Consultation  
Communal exch.

**FREE EVENING**

## WED OCT 7th

take#6  
**DEVELOPMENT**  
Input  
Consultation  
Communal exch.  
Video takes

take#7  
**IMPLEMENTATION**  
Consultation  
Communal exch.  
Video takes

**FREE EVENING**

## THU OCT 8th

take#8  
**REFEXION**  
Input  
Individual work  
Consultation  
Communal exch.  
Video takes

take#9  
**COMMUNICATION**  
Individual work  
Consultation  
Communal exch.  
Video takes

**FREE EVENING**

## FRI OCT 9th

take#10  
**PREPARATION**  
Completion  
Preparation

take#11  
**PRESENTATION**  
Video Screening

# TASKS

## **1 WRITING ON THE SITE IN GROUPS** -> individual task

- \_How is climate change me?
- \_What is my/our climate tool about?
- \_How can this tool make a difference on campus?

## **2 READING +REPORT** -> plenum

- \_what is my central topic?
- \_what did I experience during writing?

## **3 CONCEPTUALISATION OF CLIMATE TOOLS** -> groupwork

- \_how do we as a group define this climate tool?
- \_How can we transfer this into sketches, photographs, descriptions, factsheets?

## **4 IMPLEMENTATION OF CLIMATE TOOLS** -> groupwork

- \_how do we as a group define this climate tool?
- \_How can we describe this concept through sketches, photographs, descriptions, factsheets?

## **5 REFLECTION OF THE IMPLEMENTATION, PROCESS AND INSIGHTS** -> groupwork

- \_What did we learn in the process?
- \_How can this tools help?
- \_What are the potentials of artistic strategies in general?

## **6 PLANNING OF VIDEOTAKE** -> groupwork

- \_how can we plan the videotake of the tool in use?
- \_how can we write the voice-over for the film scene based on our reflections?

## **7 PLANING OF STORYBOARD** -> plenum

- \_how can the different scenes come together in a story board?

## **8 REALISING OF VIDEO TAKES** -> plenum

- \_how can we realise the video and audio takes?

## **9 PRESENTATION OF OUTCOME** -> groupwork

- \_How can we present our outcome as a group?

# OUTCOME

## Climate Tools, Site Writing and videos

Exploration of individual tools to  
confront specific challenges  
relating to climate change  
located on the RWTH campus.

IDEA League Summer School  
Campus RWTH Aachen  
Miriam Hamel | Claire Waffel





**LET'S DARE AN EXPERIMENT!**

## DAILY SCHEDULE

### THU RESEARCH

09:30 - 10:30 - Introduction

10:30 - 11:00 - Site Writing

11:00 - 11:15 - Break

11:15 - 11:45 - Report

11:45 - 12:00 - Teambuilding

12:00 - 12:30 - Brainstorming in groups

12:30 - 13:30 - Lunch

13:30 - 15:30 - Concretization concepts

15:30 - 15:45 - Coffee Break

14:45 - 17:00 - Implementation

17:00 - 18:00 - Report and exchange

## TASKS

#01

### **WRITING ON THE SITE**

-> individual task

\_How is climate change me?

\_What climate tool do you already know?

\_How can this climate tool make a difference on campus?

## TASKS

#02

### **READING +REPORT**

-> plenum

\_What did you write about?

\_On which topic would you like to work on?



## TASKS

#03

### CONCEPTUALISATION OF CLIMATE TOOLS

-> groupwork

\_how do we as a group define this  
climate tool?

## TASKS

#04

### **SPECIFICATION OF CLIMATE TOOLS**

-> groupwork

\_How can we describe this concept through sketches, photographs, descriptions, factsheets?

## TASKS

#05

### IMPLEMENTATION OF CLIMATE TOOLS

-> groupwork

\_What materials will you use?

\_How can you construct the climate tool?

\_How can you plan the realisation as process?

\_How can you document the process?

## TASKS

#06

### **REPORT + DISCUSSION**

-> plenum

\_What did you develop so far?



