

AN ABSTRACT FOR NUT **NOW** summer school

ORGANIZED AND CARRIED OUT BY PROF. DR. ULRIKE GAYH & BELEN ZEVALLOS, SCHOOL OF ENGINEERING AND ARCHITECTURE

The School of Engineering and Architecture presented the first interdisciplinary Summer School "Neckar Now: Transformative approaches for a sustainable future" which took place from 16th until 21st of August 2020.

The Neckar Now Summer School addressed the potential and challenges of a city along the river from an engineering and architectural perspective. Heidelberg provides the perfect setting to learn about current trends and methods of sustainable innovation and design. Field trips, input sessions and expert feedback rounds gave the participants the ability to develop different approaches to local problems as well as to create their own projects in an immersive experience. An exciting

Developed world map which shows public spaces in each country that is next to a river, water front or a place that establishes a relation to a water site.

FOUR DIFFERENT PROJECTS HAVE BEEN DEVELOPED BY THE **PARTICIPANTS:**

DRAFT

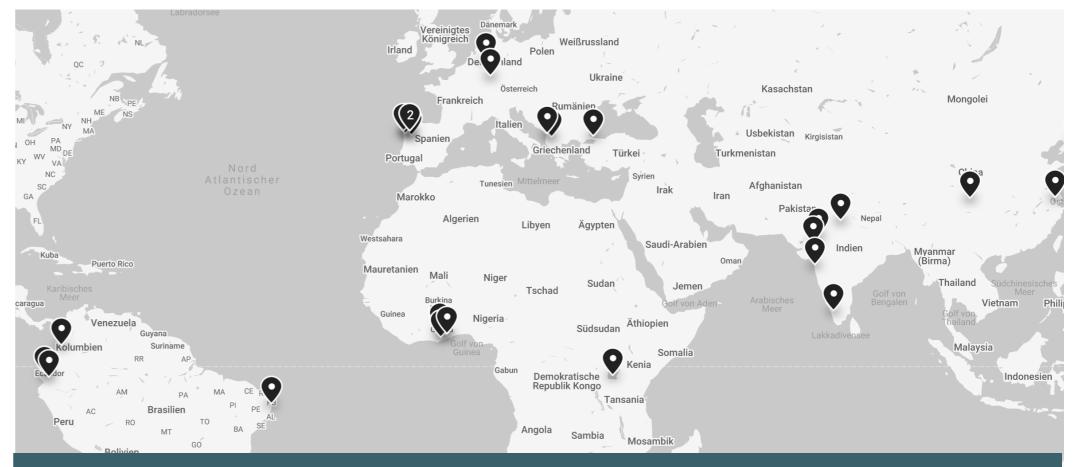


DYNAMIC FLOOD CATCHER



one-week program for those considering future studies in Water Technology (M.Eng.) or Architecture (B.A. or M.A.).

Due to the actual Covid-19 Pandemic, this Neckar Now Summer School was carried out as Hybrid-Model. That means we had participants here in Heidelberg but also online.



https://padlet.com/soeahshd/z9pw3c1rasqohrws

MOVE & MÜLL



JOHN IWUEKE, SHRADDHA PAWAR, JULIANA MORAIS, CORRINA SOMERHOLTER MARVIN IOTSAH DANIFLA CHIQUITO DILAY GÜLERYÜZ JEMIMA ZITA JOHN LUGONGO omkar kiran wadikar yiniin 7hoi



NECKAR-PERLE



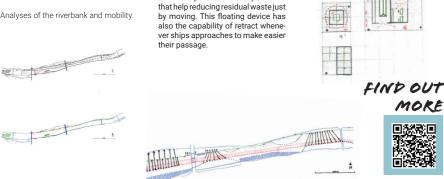
JAMIMA ZITA APPIAH

PUBLIC SPACE IN HEIDELBERG

The river Neckar now no longer div des the city into two parts but with DRafts we unite the people by mor phing it into a meeting point

DRaft is a modular system that can be used forvarious purposes and is adaptable to the different schedules and daily routines od the citizens aswell as foreigners. These floating structures which can also be ancho red at different points in the river we connect both the sides of river.Our project aims to provide a new urban structure supporting the existing one in education, culture and leisure spaces alongside the Neckar

Analyses of the riverbank and mobility



face some issues like the ship traffic

on the river which makes of one of

the city's main sources of income as

well as the fragile eco-systems (fau

na and flora) living in the river that

can be harmed by the increased flux

of people which may cause populati

on or disruption in the natural balar

ce generated there. To combat this

type of challenges Draft is equipped

with a system of solar generated po

wer which fuels the floating structu-

res and a cleaning and filtering sys-

tem incorporated in the platforms

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SRH

The idea is to implement a structure a the riverbank that contains moveable panels. As a result, this temporary paels avoid the water coming toward e city, and consequently, protecting rom floods. ne hydraulic mechanism lift-up the ba riers (panels) by using the water pres reated when the river in its flowrate. in the future are: improvements in the ering design, efficient selection f sustainable and resistant material and identification of potential areas fo

entation of other dynamic floor

he panels act as a multifunc SCAN ME! tional structure for the city. Besides of its protection pu ose, its surfaces can be used or advertisements, tourist information or even for garde ning projects.

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Games are becoming one of the most interesting ways of promoting environmental awareness. Our fi rst Game is called Move & Müll and it is a waste Seperation dame which uses intrinsic motivation to encourage environmental literacy. Move & Müll aims to change the future of gaming with a fun and exploratory mobile game that teaches people ecological sustainability. It offers the smartphone generation the opportunity to make conscious decisions about the environment and therefore to play this role in the real world.

HEIDELBERG

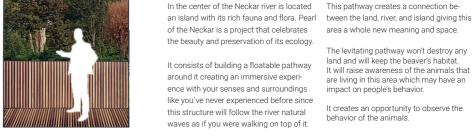
DAAD

LET'S PLAY MOVE & MÜLL



SCAN - OP COPE SPHERIEARTH





of the Neckar is a project that celebrates area a whole new meaning and space. the beauty and preservation of its ecology The levitating pathway won't destroy any land and will keep the beaver's habitat. It consists of building a floatable pathway It will raise awareness of the animals that

around it creating an immersive experience with your senses and surroundings like you've never experienced before since this structure will follow the river natural waves as if you were walking on top of it.

are living in this area which may have an impact on people's behavior. It creates an opportunity to observe the behavior of the animals

FIND OUT

MORE



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HOCHSCHULE

ere we come up with a solution that is dv

namic in nature, addressing this challenge

in a not-invasive way for the traditional old town and the Heidelberg's beautiful histori

cal landscape

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