

Summer School Neckar Now: 16.08.20 - 21.08.20 Transformative approaches for a sustainable future

AN ABSTRACT





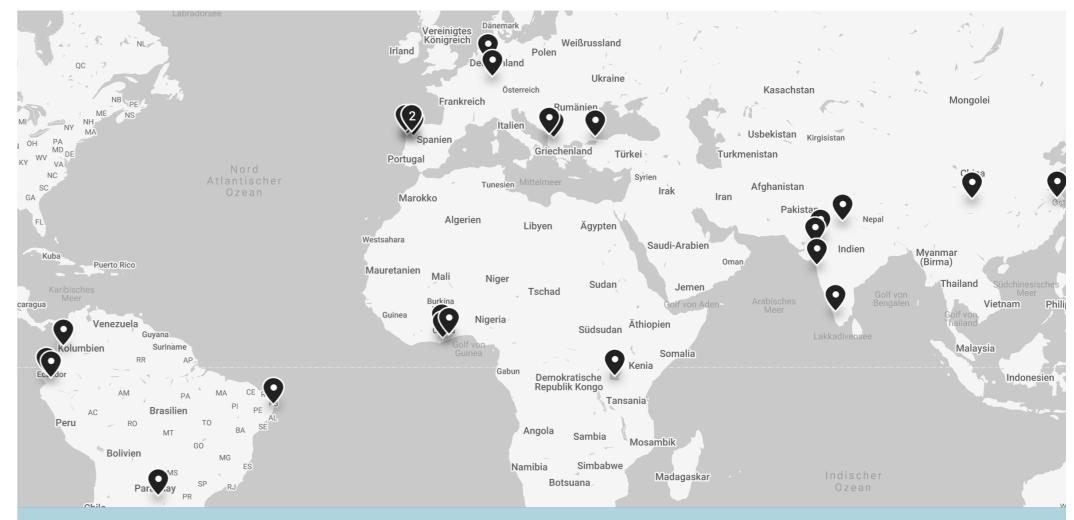
The School of Engineering and Architecture presented the first interdisciplinary Summer School "Neckar Now: Transformative approaches for a sustainable future" which took place from 16th until 21st of August 2020.

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

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:

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

D RAFT

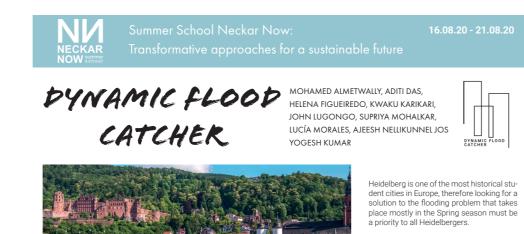
16.08.20 - 21.08.20



MIKSHA KOTTEWAR, AHMED ABDELRAHMAN, (ONLINE) VEDANT RAJPUT



DYNAMIC FLOOD CATCHER



rom floods

its flowrate.

d identification of potential areas for

nplementation of other dynamic floor

MOVE & MÜLL

16.08.20 - 21.08.20

MOVE & MÜLL

VUEKE, SHRADDHA PAWAR, JULIANA MORAIS, CORRINA SOMERHOLTER MARVIN LOTSAH DANIELA CHIQUITO DILAY GÜLERYÜZ JEMIMA ZITA JOHN LUGONGO OMKAR KIRAN WADIKAR, YINLIN ZHOU



NECKAR-PERLE



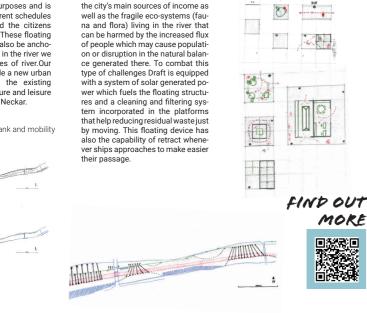
INÊS PEREIRA. GIL MARTINS. NIKITESH SOMNATHE KENNEDY GERALDO, SINDI SHEHI, MEGI BUFI, JAMIMA ZITA APPIAH



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.

face some issues like the ship traffic DRaft is a modular system that can on the river which makes of one o be used forvarious purposes and is the city's main sources of income as well as the fragile eco-systems (fau-na and flora) living in the river that 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 leisur spaces alongside the Neckar. Analyses of the riverbank and mobility their passage.



Funded by the DAAD from funds of the Federal Foreign Office HEIDELBERG DAAD Deutscher Akademischer Austauschd German Academic Exchange Service



Diagrams of the modular system



Here we come up with a solution that is dynamic in nature, addressing this challeng in a not-invasive way for the traditional old town and the Heidelberg's beautiful histor

The idea is to implement a structure a he riverbank that contains moveable anels. As a result, this temporary pa avoid the water coming tow the city, and consequently, protecting it The hvdraulic mechanism lift-up the bar riers (panels) by using the water pres-sure created when the river increases the future are: improvements in the engineering design, efficient selection f sustainable and resistant materials

> "he panels act as a multifund SCAN ME! tional structure for the city. Besides of its protection pur pose, its surfaces can be used or advertisements, tourist in formation or even for gardening projects

Funded by the DAAD from funds of the Federal Foreign Office HEIDELBERG DAAD Deutscher Akademischer Austauscher German Academic Exchange Service

Games are becoming one of the most interesting ways of promoting environmental awareness. Our first Game is called Move & Müll and it is a waste Seperation game 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

HEIDELBERG

environment and therefore to play

this role in the real world.

LET'S PLAY

MOVE & MÜLL







In the center of the Neckar river is located This pathway creates a connection be an island with its rich fauna and flora. Pearl tween the land, river, and island giving this of the Neckar is a project that celebrates area a whole new meaning and space.

> he levitating pathway won't destroy any land and will keep the beaver's habitat. It will raise awareness of the animals that 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

waves as if you were walking on top of it.





FIND OUT

HEIDELBERG

Funded by the DAAD from funds of the Federal Foreign Office DAAD Deutscher Akademischer Austausche German Academic Exchange Service

SRH HEIDELBERG

Funded by the DAAD from funds of the Federal Foreign Office:

DAAD



Deutscher Akademischer Austauschdienst German Academic Exchange Service



he beauty and preservation of its ecology It consists of building a floatable pathway around it creating an immersive experience with your senses and surroundings like vou've never experienced before since this structure will follow the river natural