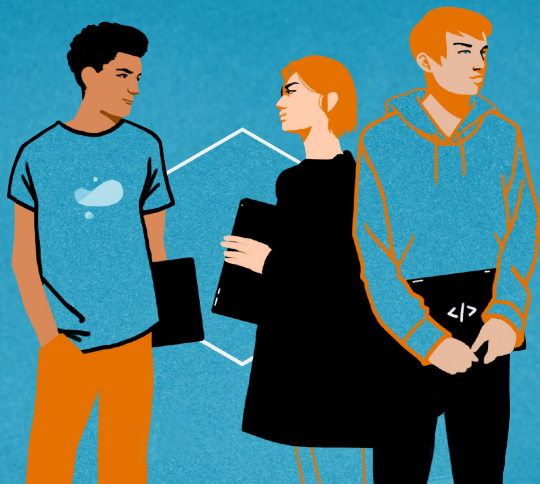


XYLEM

GLOBAL STUDENT INNOVATION CHALLENGE

2021

xylem
Let's Solve Water



Factors like climate change, pollution and aging infrastructure threaten global water supplies and water security. The Xylem Global Student Innovation Challenge is an 8-week event, inviting individuals, or teams of up to five people, to develop a project on one of four water challenges, with separate cash prizes totaling \$20,000 available for the winners of the high school and university tracks.

The Innovation Challenge offers the opportunity for students to engage with mentors and participate in webinars led by experts in Xylem and the water community. Xylem has also created Water Masterclass - a series of video classes educating on a range of important water topics from water sustainability to engineering design.

2021 CHALLENGE STATEMENTS

1

Reducing the Water
Footprint of Everyday
Products

2

Gaming for
Water with
EarthEcho

3

Urban Flood
Prediction

4

What if you Lived
on Mars?

More details about the Challenge Statements can be found [HERE](#).

THE 2021 XYLEM GLOBAL STUDENT INNOVATION CHALLENGE BY THE NUMBERS

8

WEEKS OF
COMPETITION

656

STUDENTS

47

COUNTRIES
REPRESENTED

4

CHALLENGE
STATEMENTS

4

EXPERT-LED
WEBINARS

9

WATER
MASTERCLASSES

103

PROJECT
SUBMISSIONS

HIGH SCHOOL WINNERS



UPLIFT (USA)

"I used Fanno Creek (rainfall/discharge) data and K-Nearest Neighbors (KNN) Classification to predict floods and interactive web (Anvil) app"

- Surya Tallavarjula

VIDEO PRESENTATION ►

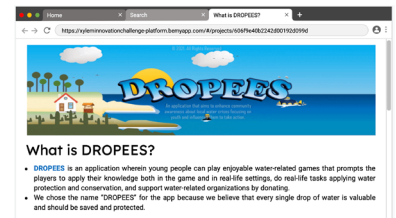


REHYDRO (SINGAPORE)

"ReHydro aims to reduce the water footprint in the production of rice and make hydroponics more feasible, especially for mass-production"

- Yi Heng Yeong, Lavanya Muthiah, and Bao Yu Lee

VIDEO PRESENTATION ►



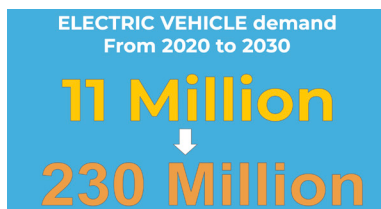
DROPEES (PHILIPPINES)

"An application that aims to enhance community awareness about local water crises focusing on youth and influences them to take action"

- Bienn Mishael Usi, Annika Venice Caminero, Laurence Aries Cuasay, Archie Ferrera, and Allane Lee Castro

VIDEO PRESENTATION ►

UNIVERSITY WINNERS



WHITE OIL (SINGAPORE)

"White Oil focuses on the water footprint of electric car batteries, also known as lithium batteries"

- Huey Jen Tham, Michelle Chua, and Wei Ywin Teo

VIDEO PRESENTATION ►

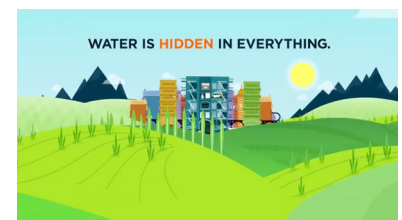


MARS - WATER EXTRACTION & TRANSPORTATION (WET) (MALAYSIA)

"Our project focuses on in-situ resource utilization to produce and blockchain technology to manage ample resources for crew living on Mars"

- Zong Junn Lee, Loh Juin Xian, Cremen Ong Wen Yao, Ian Lim Ting Hau, and Jia Xuan Wong

VIDEO PRESENTATION ►



MIZU WARRIORS (INDIA)

"Grey Water treatment System - A four filtration process"

- Trushil Patel, Falak Patel, Bhumi Patel, Namrata Thakkar, and Karn Kavathia

VIDEO PRESENTATION ►

