

DTU



NEXT
GENERATION
WATER ACTION

Next Generation Water Action Winners 2021



MINISTRY OF
FOREIGN AFFAIRS
OF DENMARK

RAMBØLL
FONDEN



IWA
YOUNG WATER
PROFESSIONALS
DENMARK

POUL DUE JENSEN / GRUNDFOS
FOUNDATION

#nextgeneration #DTUDK #YWPDI

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IWA WORLD WATER CONGRESS SCHOLARSHIPS

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TOP 5 Startups

4Life Solutions from Denmark

Agromorph Solutions from India

Waterkiosk from Kenya

Bluesparks Technologies from Ghana

Digital Ecoinnovation from India



IWA World Water Congress 2022 Scholarships

About the award:

The main awards of the initiative are fully funded IWA WWC 2022 scholarships for both tracks, Young Academics and Young Entrepreneurs track. The award goes to the Top 3 teams of each track - to the top 2 international teams and the best Danish team!

The scholarship encompasses for 2-3 team members (3 from Young Academics winners, 2 from Young Entrepreneurs winners) to travel to Copenhagen, visit DTU Skylab and most importantly, attend the IWA World Water Congress in 2022!

Jointly sponsored by IWA Denmark and Next Generation Water Action!

WINNER'S INFO

Winner:

Team Kenya (2.KE)

Team Name / Solution Title:

Chromium Recovery from
Tannery Wastewater

Team Members:

Robert Kipng'eno Too
Farida Gitonga
Chrispin Ouko Zamzu
Angel Nyokabi
Loise Muthoni Mahugu
Yannick Kyungu

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/grundfos-team-2-ke/>

Short Description:

Protecting the environment and humanity from the toxicity of hexavalent chromium (Cr+6) in wastewater while recovering these non-renewable resources for reuse in the industry: a move towards circular economy.

IWA WWC 2022 Scholarship - Young Academics



Picture from left to right: Robert Kipng'eno Too, Prof. Dr. -Ing. John Mwangi Gathenya (supervisor), Angel Nyokabi, Loise Muthoni Mahugu, Chrispin Ouko Zamzu, Yannick Kyungu and Carol Olale (local partner, Trade Council of Denmark in Sub-Saharan Africa)

Download the winner's team pictures here:

https://www.dropbox.com/sh/icuzz3l7zliiphb/AA_BJAQi6cEjZzDWjfgvPu4i6a?dl=0

CONTACT INFO

If you are interested in contacting the team, please contact the team leader: Robert Kipng'eno To, robertoo@students.uonbi.ac.ke

WINNER'S INFO

Winner:

Team India (4.IN)

Team Name /

Solution Title:

Ekatvam

Team Members:

Rishabh Ravichandran

Mihir Palav

Piyush Bhandarkar

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/ramboll-team-4-in/>

Short Description:

Our solution MIDAS (Model of Interactive Decision Assistance Simulator) is a multi-stakeholder water management platform that ensures participatory and sustainable water management. Our uniqueness lies in our approach to support various water management initiatives started by government, NGOs or CSRs through the technology enabled end-to-end service. It is a sustainable water management solution created with the community and for the community.

IWA WWC 2022 Scholarship - Young Academics



Picture from left to right: Piyush Bhandarkar, Mihir Palav, Rishabh Ravichandran

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader: Rishabh Ravichandran, rishabh.ravichandran@gmail.com

WINNER'S INFO

Winner:

Team Denmark (5.DK)

Team Name /

Solution Title:

Peater

Team Members:

Martin Anders Tjellesen

Magnus Falkenberg

Magdalena Golofit

Maja Ørslund

Jakob Vestergaard Offersen

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/niti-aayog-team-5-dk/>

Short Description:

At Peater, we develop an autonomous, self-sustaining IoT monitoring system specifically designed for peatlands. Our sensor network continuously monitors the health of peatlands on several attributes and transmits the data back to the farmer. Thus, the farmer can get a real-time insight of the wellbeing of their peatlands, and be notified when risk of wildfire or drought is detected. Peater saves nature's most vital CO2 capture tool before it's too late!

IWA WWC 2022 Scholarship - Young Academics



Picture from left to right: Jakob Vestergaard Offersen and Magnus Falkenberg

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader:

Martin Anders Tjellesen, s173844@student.dtu.dk

WINNER'S INFO

Winner:

4Life Solutions

Team Members:

Julia Hammann
Roskva Richardt

Link to Description & Pitch video (soon to be uploaded):

<https://nextgenerationwateraction.com/young-entrepreneurs-1/#4life>

Short Description:

4Life Solutions is a Danish based impact-company aiming to deliver clean, sustainable water to everyone who needs it by developing and implementing the affordable household water purification device, the SolarSack. SaWa 4life is an affordable and straightforward water purification device that can clean 4 litres of water in 4 hours using only sunlight. Solarsack's purification technology is based on Solar Water Disinfection (SODIS), a process that has been endorsed by WHO. The process works by harnessing UV-rays and heat from the sun to reduce bacteria and virus by 99.99%

IWA WWC 2022 Scholarship - Young Entrepreneurs



On the picture: Julia Hammann

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader:

Julia Hammann, JH@solarsack.com

WINNER'S INFO

Winner:

Agromorph Solutions

Team Members:

Akanksha Agarwal
Abhilesh Agarwal

**Link to Description
& Pitch video** (soon to be
uploaded):

<https://nextgenerationwateraction.com/young-entrepreneurs-1/#agro>

Short Description:

We are an algal water technology company that offers "Re-invented Fresh Water®" from municipal liquid wastewater (MLW). In the current scenario, the pretreated MLW eventually enters the water bodies where algae naturally treat our wastewater. We adapted our algae to biologically treat the MLW and consume its nutrients in a single step, while eliminating harmful bacteria, viruses, TDS, BOD, and most importantly the odor.

IWA WWC 2022 Scholarship - Young Entrepreneurs



Picture from left to right: Abhilesh Agarwal and Akanksha Agarwal

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader:
Akanksha Agarwal, akanksha.agarwal@agromorph.com

WINNER'S INFO

Winner:

Waterkiosk Limited

Team Members:

Samuel Kinyanjui

Hamed Beheshti

Link to Description

& Pitch video (soon to be uploaded):

<https://nextgenerationwateraction.com/young-entrepreneurs-1/#waterkiosk>

Short Description:

Waterkiosk Africa installs, operates, and maintains solar water desalination systems for off-grid communities around Africa. Waterkiosk ensures inclusivity in its model of operation ensuring impact-oriented results, engaging community stakeholders, and promoting women as kiosk operators. Community members benefit from increased incomes and access to sustainable employment, as well as, minimizing the effort and dangers of traveling to collect drinking water.

IWA WWC 2022 Scholarship - Young Entrepreneurs



Picture from left to right: Prof. Dr.-Ing. John Mwangi Gathenya (local partner) and Samuel Kinyanjui

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader:

Samuel Kinyanjui, samuelkinyanjui@gmail.com

Best Pitch Award

About the award:

From both tracks, the Best Pitch was selected and is awarded with tailored support to boost their further communication efforts worth 400 EUR.

The Best Pitch award of the Young Academics Track goes to the team with the highest score in the evaluation criteria "Pitch Video" and "Live Q&A Performance" across all 21 participating student teams.

The Best Pitch award of the Young Entrepreneurs Track goes to the team with the highest score in the evaluation criteria "Live Pitch and Q&A Performance" across all 10 participating startup teams.

WINNER'S INFO

Winner:

Team Denmark (3.DK)

**Team Name /
Solution Title:**
SludgeX

Team Members:

Xingzhou Lyu
Sindhu Halemani
Jagadeesha
Benny Kaan Nielsen
Manon Chloé Villers
Nataniel Andreas Olden-
Jørgensen
Claire Chudobova
Tianyi Ma

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/team-3-dk-sludgex/>

Short Description:

SludgeX has transformed from a group of bright master's students from around the world into a startup team with the goal of globally optimizing the sustainability of wastewater treatment plants!

Best Pitch Award - Young Academics



Picture from left to right: Benny **Kaan** Nielsen, Nataniel Andreas Olden-Jørgensen, Sindhu Halemani Jagadeesha & Manon Chloé Villers

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz317zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader: Benny Kaan Nielsen, s210198@student.dtu.dk

WINNER'S INFO

Winner:

4Life Solutions

Team Members:

Julia Hammann
Roskva Richardt

Link to Description & Pitch video (soon to be uploaded):

<https://nextgenerationwateraction.com/young-entrepreneurs-1/#4life>

Short Description:

4Life Solutions is a Danish based impact-company aiming to deliver clean, sustainable water to everyone who needs it by developing and implementing the affordable household water purification device, the SolarSack. SaWa 4life is an affordable and straightforward water purification device that can clean 4 litres of water in 4 hours using only sunlight. Solarsack's purification technology is based on Solar Water Disinfection (SODIS), a process that has been endorsed by WHO. The process works by harnessing UV-rays and heat from the sun to reduce bacteria and virus by 99.99%

Best Pitch Award - Young Entrepreneurs



On the picture: Julia Hammann

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader:

Julia Hammann, JH@solarsack.com



Challenge Awards: MOST PROMISING IDEA

About the award:

For each challenge track, the Most Promising Idea is awarded to the finalist team based on the highest score across all evaluation criteria in its challenge track. The team therewith is the Challenge track winner!

The IWA World Water Congress 2022 Scholarships have been awarded to the Top 3 Most Promising Ideas of the 5 Tracks. Further, we hope that you, as a challenge owner, will give the teams further support by promoting the winning teams of your challenge!

WINNER'S INFO

Winner:

Team Denmark (1.DK)

**Team Name /
Solution Title:**
PipeData

Team Members:

Marius-Cristian Mic
Anna Groes-Petersen
Dušan Popovski
Mohammad Mansoor Samadi
Dennis Jensen
Ralitsa Petkova

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/le34-ghana-team-1-dk/>

Short Description:

PipeData application is visualization software that allows construction workers in Accra, Ghana to view 2D and 3D pipe maps at the construction site. Thus, the number of broken pipes is reduced and as a result, water is saved!

CONTACT INFO

If you are interested in contacting the team, please contact the team leader:
Marius-Cristian Mic,
s193282@student.dtu.dk

MOST PROMISING IDEA

- LE34 & GWCL Challenge



Picture from left to right: Dušan Popovski, Dennis Jensen & Ralitsa Petkova

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

Interview with the team in P1:

<https://www.dr.dk/radio/p1/orientering/orientering-2021-05-18/01:16:29>

Team mentioned in TV in Ghana News Night
from 26:32: [\(19\) WATCH LIVE: #NewsNight on #MetroTV / Twitter](#)

WINNER'S INFO

Winner:

Team Kenya (2.KE)

Team Name / Solution Title:

Chromium Recovery from
Tannery Wastewater

Team Members:

Robert Kipng'eno Too
Farida Gitonga
Chrispin Ouko
Angel Nyokabi
Loise Muthoni Mahugu
Yannick Kyungu

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/grundfos-team-2-ke/>

Short Description:

Protecting the environment and humanity from the toxicity of hexavalent chromium (Cr+6) in wastewater while recovering these non-renewable resources for reuse in the industry: a move towards circular economy.

MOST PROMISING IDEA

- Grundfos Challenge



Picture from left to right: Robert Kipng'eno Too, Prof. Dr. -Ing. John Mwangi Gathenya (supervisor), Angel Nyokabi, Loise Muthoni Mahugu, Chrispin Ouko Zamzu, Yannick Kyungu and Carol Olale (local partner, Trade Council of Denmark in Sub-Saharan Africa)

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader: Robert Kipng'eno To, robertoo@students.uonbi.ac.ke

WINNER'S INFO

Winner:

Team Denmark (3.DK)

Team Name / Solution Title:

SludgeX

Team Members:

Xingzhou Lyu

Sindhu Halemani

Jagadeesha

Benny Kaan Nielsen

Manon Chloé Villers

Nataniel Andreas Olden-

Jørgensen

Claire Chudobova

Tianyi Ma

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/team-3-dk-sludgex/>

Short Description:

SludgeX has transformed from a group of bright master's students from around the world into a startup team with the goal of globally optimizing the sustainability of wastewater treatment plants!

MOST PROMISING IDEA

- Daegu City Challenge



Picture from left to right: Benny Kaan Nielsen, Nataniel Andreas Olden-Jørgensen, Sindhu Halemani Jagadeesha & Manon Chloé Villers

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader: Benny Kaan Nielsen, s210198@student.dtu.dk

WINNER'S INFO

Winner:

Team India (4.IN)

Team Name /

Solution Title:

Ekatvam

Team Members:

Rishabh Ravichandra

Mihir Palav

Piyush Bhandarkar

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/ramboll-team-4-in/>

Short Description:

Our solution MIDAS (Model of Interactive Decision Assistance Simulator) is a multi-stakeholder water management platform that ensures participatory and sustainable water management. Our uniqueness lies in our approach to support various water management initiatives started by government, NGOs or CSRs through the technology enabled end-to-end service. It is a sustainable water management solution created with the community and for the community.

MOST PROMISING IDEA

- Rambøll Challenge



Picture from left to right: Piyush Bhandarkar, Mihir Palav, Rishabh Ravichandran

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader: Rishabh Ravichandran, rishabh.ravichandran@gmail.com

WINNER'S INFO

Winner:

Team Denmark (5.DK)

Team Name /

Solution Title:

Peater

Team Members:

Martin Anders Tjellesen

Magnus Falkenberg

Magdalena Golofit

Maja Ørslund

Jakob Vestergaard Offersen

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/niti-aayog-team-5-dk/>

Short Description:

At Peater, we develop an autonomous, self-sustaining IoT monitoring system specifically designed for peatlands. Our sensor network continuously monitors the health of peatlands on several attributes and transmits the data back to the farmer. Thus, the farmer can get a real-time insight of the wellbeing of their peatlands, and be notified when risk of wildfire or drought is detected. Peater saves nature's most vital CO2 capture tool before it's too late!

MOST PROMISING IDEA

- NITI Aayog & AIM Challenge



Picture from left to right: Jakob Vestergaard Offersen and Magnus Falkenberg

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader:

Martin Anders Tjellesen, s173844@student.dtu.dk



Challenge Awards: ACCELERATION SCHOLARSHIP

About the award:

For each challenge track, one Acceleration Scholarship is awarded to the team based on the highest score in the evaluation criteria "Acceleration Potential" in the challenge semifinal.

The winning team will be awarded a 1.000 EUR scholarship to further accelerate their project - sponsored by the challenge owner.

WINNER'S INFO

Winner:

Team Denmark (1.DK)

**Team Name /
Solution Title:**
PipeData

Team Members:
Marius-Cristian Mic
Anna Groes-Petersen
Dušan Popovski
Mohammad Mansoor Samadi
Dennis Jensen
Ralitsa Petkova

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/le34-ghana-team-1-dk/>

Short Description:

PipeData application is visualization software that allows construction workers in Accra, Ghana to view 2D and 3D pipe maps at the construction site. Thus, the number of broken pipes is reduced and as a result, water is saved!

CONTACT INFO

If you are interested in contacting the team, please contact the team leader:
Marius-Cristian Mic,
s193282@student.dtu.dk

ACCELERATION SCHOLARSHIP - LE34 & GWCL Challenge



Picture from left to right: Dušan Popovski, Dennis Jensen & Ralitsa Petkova

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

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<https://www.dr.dk/radio/p1/orientering/orientering-2021-05-18/01:16:29>

Team mentioned in TV in Ghana News Night
from 26:32: [\(19\) WATCH LIVE: #NewsNight on #MetroTV / Twitter](#)

WINNER'S INFO

Winner:

Team Ghana (2.GH)

Team Name /

Solution Title:

Recovery of Phosphorus from Municipal Wastewater

Team Members:

Francis Adu-Boahene
Michelle Agbozo
Zenobia Kusi-Afrakoma

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/recovery-of-phosphorus-from-municipal-wastewater/>

Short Description:

There has been a drastic demand for phosphorus. Phosphorus deposits are entirely dependent on imports and are therefore vulnerable to market fluctuations. One of many measures for reducing dependency is the recovery of Phosphorus from obviously available but currently often unexploited national Phosphorus sources. Our solution combines two waste products, aluminium foil and depulped coffee cherries, to recover phosphorus from municipal wastewater!

ACCELERATION SCHOLARSHIP - Grundfos Challenge



Picture from left to right: Michelle Agbozo, Francis Adu-Boahene, Tom Nørring (Ambassador at Danish Embassy in Accra, Ghana) & Zenobia Kusi-Afrakoma

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAI6cEjZzDWjfgvPu4i6a?dl=0>

Team mentioned in TV in Ghana News Night from 26:32: [\(19\) WATCH LIVE: #NewsNight on #MetroTV / Twitter](#)

CONTACT INFO

If you are interested in contacting the team, please contact the team leader: Francis Adu-Boahene, prof293.fab@gmail.com

WINNER'S INFO

Winner:

Team Denmark (3.DK)

Team Name / Solution Title:

SludgeX

Team Members:

Xingzhou Lyu

Sindhu Halemani

Jagadeesha

Benny Kaan Nielsen

Manon Chloé Villers

Nataniel Andreas Olden-

Jørgensen

Claire Chudobova

Tianyi Ma

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/team-3-dk-sludgex/>

Short Description:

SludgeX has transformed from a group of bright master's students from around the world into a startup team with the goal of globally optimizing the sustainability of wastewater treatment plants!

ACCELERATION SCHOLARSHIP

- Daegu City Challenge



Picture from left to right: Benny Kaan Nielsen, Nataniel Andreas Olden-Jørgensen, Sindhu Halemani Jagadeesha & Manon Chloé Villers

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJAQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader: Benny Kaan Nielsen, s210198@student.dtu.dk

WINNER'S INFO

Winner:

Team Kenya (4.KE)

**Team Name /
Solution Title:**
Floodizens

Team Members:
Feisal Hassan
June Jerop Kimaiyo
Nkenen Brendaline Shieke
Maureen Mutune
Kennedy Wekesa Murunga

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/ramboll-team-4-ke/>

Short Description:

Floodizens; meaning citizens for flood fights, is an application that will integrate a robust citizen science based early warning system and a decision support tool. The citizens will help in data collection through photos into the app showing rainfall and temperature from weather stations, blocked sewer/storm sewer system points before and during a flood, where and extension of the flood during a flood incidence.

ACCELERATION SCHOLARSHIP - Rambøll Challenge



Picture from left to right: Maureen Mutune & Ole Thonke (Ambassador at Royal Danish Embassy in Nairobi)

Interview with Maureen Mutune in the Kenyan hub video (at the end of video):

<https://www.dropbox.com/sh/r9hixo2jrx9vjq0/AADqejq4kUoyLKrYFibi8hr8a?dl=0>

Download the winner's team pictures here:

<https://www.dropbox.com/sh/icuzz3l7zliiphb/AABJ AQi6cEjZzDWjfgvPu4i6a?dl=0>

CONTACT INFO

If you are interested in contacting the team, please contact the team leader: Nkenen Brendaline Shieke, nkenybren@gmail.com

WINNER'S INFO

Winner:

Team India (5.IN1)

Team Name /

Solution Title:

Colorimetric Affordable Test Strips

Team Members:

Vaishali Choudhary
Kowsalya Vellengiri

Link to Description & Pitch video:

<https://nextgenerationwateraction.com/niti-aayog-team-5-in1/>

Short Description:

Efficient water monitoring tools provide ways to detect pollution before it happens - yet common sensor technologies are not portable nor user friendly. We propose the detection of emerging pollutants by using colorimetric affordable test strips using a simple and spot in dip-check method. Briefly, the fabricated strips enable the detection by simply dipping the probe in test water and observing naked eye color change - which can then be further analyzed by a simple mobile app.

ACCELERATION SCHOLARSHIP

- NITI Aayog & AIM Challenge



Picture from left to right: Vaishali Choudhary & Kowsalya Vellengiri

Download the winner's team pictures here:

https://www.dropbox.com/sh/icuzz3l7zliiphb/AA_BJAQi6cEjZzDWjfgvPu4i6a?dl=0

CONTACT INFO

If you are interested in contacting the team, please contact the team leader: Vaishali Choudhary, ce17d035@smail.iitm.ac.in